WKE

AUGUST 2023

PROJECT ID: 2040-14-70

WITH: N/A

COUNTY: MILWAUKEE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 716



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

LOVERS LANE (CITY OF FRANKLIN)

RAWSON AVE TO COLLEGE AVE

USH 45

MILWAUKEE COUNTY

STATE PROJECT NUMBER
2040-14-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2040-14-70	WISC 2023580	1

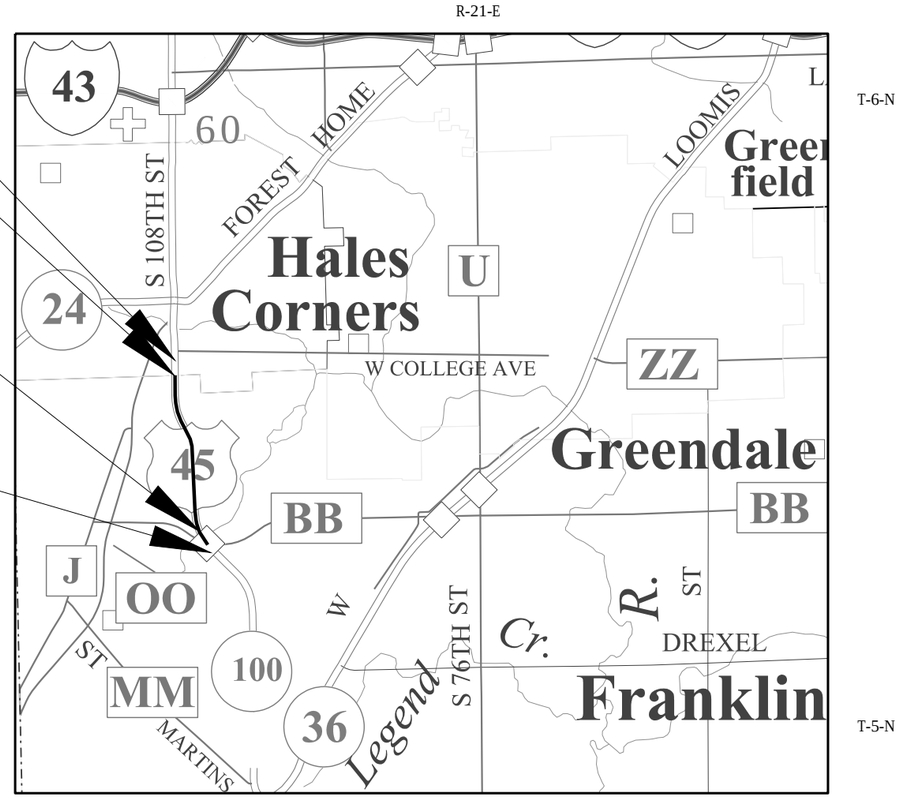
N

END CONSTRUCTION
STA 971+50.00

END PROJECT
STA 968+80.00

BEGIN PROJECT
STA 913+89.19
Y = 254,313.89
X = 569,650.91

BEGIN CONSTRUCTION
STA 904+00.00



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 1.040 MI.

DESIGN DESIGNATION

A.A.D.T.	2025	=	24,700
A.A.D.T.	2045	=	26,600
D.H.V.		=	10.1%
D.D.		=	58/42
T.		=	6.3%
DESIGN SPEED		=	45-55 MPH*
ESALS		=	1,600,000

* DESIGN SPEED SOUTH OF 923+50 = 55MPH
DESIGN SPEED NORTH OF 923+50 = 45MPH

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MILWAUKEE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2007). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

WISCONSIN
JAKE O BONDHUS
E-46248
WAUWATOSA
WI
PROFESSIONAL ENGINEER

DATE: 5/1/2023 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	STRAND ASSOCIATES INC.
Designer	BLOOM COMPANIES, LLC
Project Manager	DOUG CAIN, P.E.
Regional Examiner	
Regional Supervisor	

APPROVED FOR THE DEPARTMENT

DATE: 5/1/2023 (Signature)

E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\010101-TI.DWG

PLOT DATE : 4/22/2023 1:43 PM

PLOT BY : JAKE BONDHUS

PLOT NAME :

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

THE LOCATION OF STAGING SIGNS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT NUMBER OF SIGNS AND SIGN LOCATIONS ARE TO BE APPROVED BY THE ENGINEER IN THE FIELD.

ANY CONFLICTING SIGNS SHALL BE COVERED OR REMOVED.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS REMOVAL ITEMS SHALL BE REMOVED TO AN EXISTING JOINT, SAW CUT WHERE SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

STORM SEWER PIPE ELEVATIONS, LENGTH, AND LOCATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

A SAWED JOINT SHALL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

ABBREVIATIONS

BOC	BACK OF CURB
BP	BREAK POINT
CE	COMMERCIAL ENTRANCE
COR	CORNER
CSCP	CORRUGATED STEEL CULVERT PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
DIM	DIMENSION
e	EXTERNAL DISTANCE
EOP	EDGE OF PAVEMENT
ESTR	EXISTING SIGN TO REMAIN
HP	HIGH POINT
L	LENGTH (OF CURVE)
LP	LOW POINT
MAX	MAXIMUM
MIN	MINIMUM
NOR	NORMAL
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PROP	PROPOSED
RCCP	REINFORCED CONCRETE CULVERT PIPE

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
SUPERELEVATION TRANSITIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
PLAN DETAILS
CURB RAMP DETAILS
REMOVAL PLANS
EROSION CONTROL
DRAINAGE REMOVALS
STORM SEWER AND UTILITY PLAN
PERMANENT SIGNING
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
PAVEMENT MARKINGS
TRAFFIC CONTROL PLANS
DETOUR PLAN
ALIGNMENT PLAN
CONTROL POINT DATA SHEETS

2

SECTION CORNER CONTACT INFORMATION
ATTN: ROB MERRY
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE (262)953-4289
CELL (920)912-1036
FAX (262)547-1103
E-MAIL: RMERRY@SEWRPC.ORG

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND SEWRPC (ROB MERRY); AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

HMA MIX TABLE

TOTAL PAVEMENT DEPTH	LAYER DEPTH	GRADATION TRAFFIC BINDER DESIGNATION
6 3/4 -INCH PAVEMENT	1 3/4-INCH UPPER LAYER 2 1/2-INCH LOWER LAYER 2 1/2-INCH LOWER LAYER	4 MT 58-28 S 3 MT 58-28 S 3 MT 58-28 S
4-INCH SHOULDER (RAWSON NW RAMP)	4-INCH SINGLE LAYER	4 MT 58-28 S
3-INCH ASPHALTIC SURFACE (SHARED USE PATH)	3-INCH SINGLE LAYER	4 MT 58-28 S
2-INCH OVERLAY	2-INCH SINGLE LAYER	4 MT 58-28 S

2

UTILITIES

AT&T WISCONSIN
NATHAN GILBERT
COMMUNICATION LINE
411 7TH ST.
RACINE WI, 53403
(262) 720-8235
NG952@ATT.COM

CITY OF FRANKLIN
MIKE ROBERTS
SEWER
5550 W AIRWAYS AVE.
FRANKLIN, WI 53132
OFFICE: (414) 421-4632
MOBILE: (414) 254-8442
MROBERTS@FRANKLINWI.GOV

EVERSTREAM
BILL DUCHAINE
COMMUNICATION LINE
324 E WISCONSIN AVE., SUITE 730
MILWAUKEE, WI 53202
OFFICE: (414) 409-1703
MOBILE: (815) 252-5956
BDUCHAINE@EVERSTREAM.NET

FRANKLIN MUNICIPAL WATER UTILITY
MIKE ROBERTS
WATER
5550 W AIRWAYS AVE.
FRANKLIN, WI 53132
OFFICE: (414) 421-2632
MOBILE: (414) 254-8442
MROBERTS@FRANKLINWI.GOV

SPECTRUM
BEAU ABUYA
COMMUNICATION LINE
1320 N MARTIN LUTHER KING DR.
MILWAUKEE, WI 53212
(414) 758-9241
BEAU.ABUYA@CHARTER.COM

VERIZON COMMUNICATION
RJ CICATELLO JR.
COMMUNICATION LINE
15725 W RYERSON RD.
NEW BERLIN, WI 53151
(414) 232-1323
RANDY.CICATELLO@VERIZON.COM

WE ENERGIES
JACOB SCHOENUNG
ELECTRICITY
7815 NORTHWESTERN AVE.
RACINE, WI 53406
OFFICE: (262) 884-6738
MOBILE: (414) 416-3365
DISPATCH: 1(800) 662-4797
JACOB.SCHOENUNG@WE-ENERGIES.COM

WESLEY NUNN
GAS/PETROLEUM
7815 NORTHWESTERN AVE.
RACINE, WI 53406
(414) 659-4933
DISPATCH: 1(800) 261-5325
WESLEY.NUNN@WE-ENERGIES.COM

WISDOT
ERIC PEREA
STREET LIGHTING
141 NW BARSTOW ST.
WAUKESHA, WI 53188
(262) 574-5422
ERIC.PEREA@DOT.WI.GOV

JOHN BRUGGEMAN
WISCONSIN SIGNAL
141 NW BARSTOW ST.
WAUKESHA, WI 53188
(262) 317-3353
JOHN.BRUGGEMAN@DOT.WI.GOV

NON - UTILITIES

MILWAUKEE COUNTY TRANSIT SYSTEM
DAVID LOCHER
MILWAUKEE COUNTY TRANSIT SYSTEM
1942 N 17TH ST.
MILWAUKEE, WI 53205
PHONE: (414) 343-1727
DLOCHER@MCTS.ORG

ARMOND SENSABAUGH
MILWAUKEE COUNTY TRANSIT SYSTEM
1942 N 17TH ST.
MILWAUKEE, WI 53205
PHONE: (414) 343-1728
ASENSABAUGH@MCTS.ORG

MILWAUKEE COUNTY DOT
EDUARDO SANTIAGO
HIGHWAY MAINTENANCE DIRECTOR
MILWAUKEE COUNTY DOT
HIGHWAY MAINTENANCE DIVISION
10190 W WATERTOWN PLANK RD., 1ST FLOOR
WAUWATOSA, WI 53226
(414) 257-4563
EDUARDO.SANTIAGO@MILWAUKEECOUNTYWI.GOV

ANDREA WEDDLE-HENNING
DIRECTOR OF TRANSPORTATION ENGINEERING
MILWAUKEE COUNTY DOT
TRANSPORTATION SERVICES DIVISION
10930 W LAPHAM ST.
West Allis, WI 53214
(414) 257-5934
ANDREA.WEDDLE-HENNING@MILWAUKEECOUNTYWI.GOV

MILWAUKEE COUNTY
DANIEL MURPHY
DEPARTMENT OF PUBLIC WORKS - ROAD FACILITY
10930 W. LAPHAM ST.
(414) 257-5942
DANIEL.MURPHY@MILWAUKEECOUNTYWI.GOV

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

CITY OF FRANKLIN
KEVIN SCHLUETER
SUPERINTENDENT OF PUBLIC WORKS
7979 W. RYAN ROAD
FRANKLIN, WI 53132
PH: (414) 425-2592
KSCHLUETER@FRANKLINWI.GOV

WISDOT CONTACT
DOUG CAIN
WISDOT SOUTHEAST REGION
141 N.W. BARSTOW STREET
WAUKESHA, WI 53188
PH: 262-548-5603
DOUGLAS.CAIN@DOT.WI.GOV

DESIGN CONSULTANT
JACOB BONDHUS
BLOOM COMPANIES
10501 W RESEARCH DR
MILWAUKEE, WI 53226
PH: 773-520-2078
JACOBBONDHUS@BLOOMCOS.COM

WDNR CONTACT
MATT MATRISE
DNR SOUTHEAST REGION HEADQUARTERS
2300 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
PH: 262-933-5233
MATTHEW.MATRISE@WISCONSIN.GOV

2

N

END CONSTRUCTION
STA 971+50.00

END PROJECT
STA 968+80.00

S40-2119-01
S40-2119-02
S40-2119-03
S40-2119-04
S40-2119-05
S40-2119-06

SPEEDWAY DRIVE

USH 45/ STH 100

970

980

960

950

940

930

920

910

900

FRONTAGE ROAD WEST

DETENTION POND

CTH BB

RAWSON NW RAMP

RAWSON AVE.

S-40-3098

CORTEZ ROAD

PRAIRIEWOOD LANE

WHITNALL EDGE ROAD

VENTURE DRIVE

COLLEGE AVENUE

B-40-746

B-40-745

UNNAMED WATERWAY

FRONTAGE ROAD EAST

PHYLLIS LANE

HERDA PLACE

CORTEZ CIRCLE (SOUTH)

CORTEZ CIRCLE (NORTH)

TESS CORNERS CREEK

RAWSON SE RAMP

CITY OF FRANKLIN

VILLAGE OF HALES CORNERS

BEGIN RECONSTRUCTION
STA 917+40.00 (SB)
STA 916+00.00 (NB)

BEGIN PROJECT
BEGIN RESURFACING
STA 914+64.43 (SB)
STA 913+89.19 (NB)

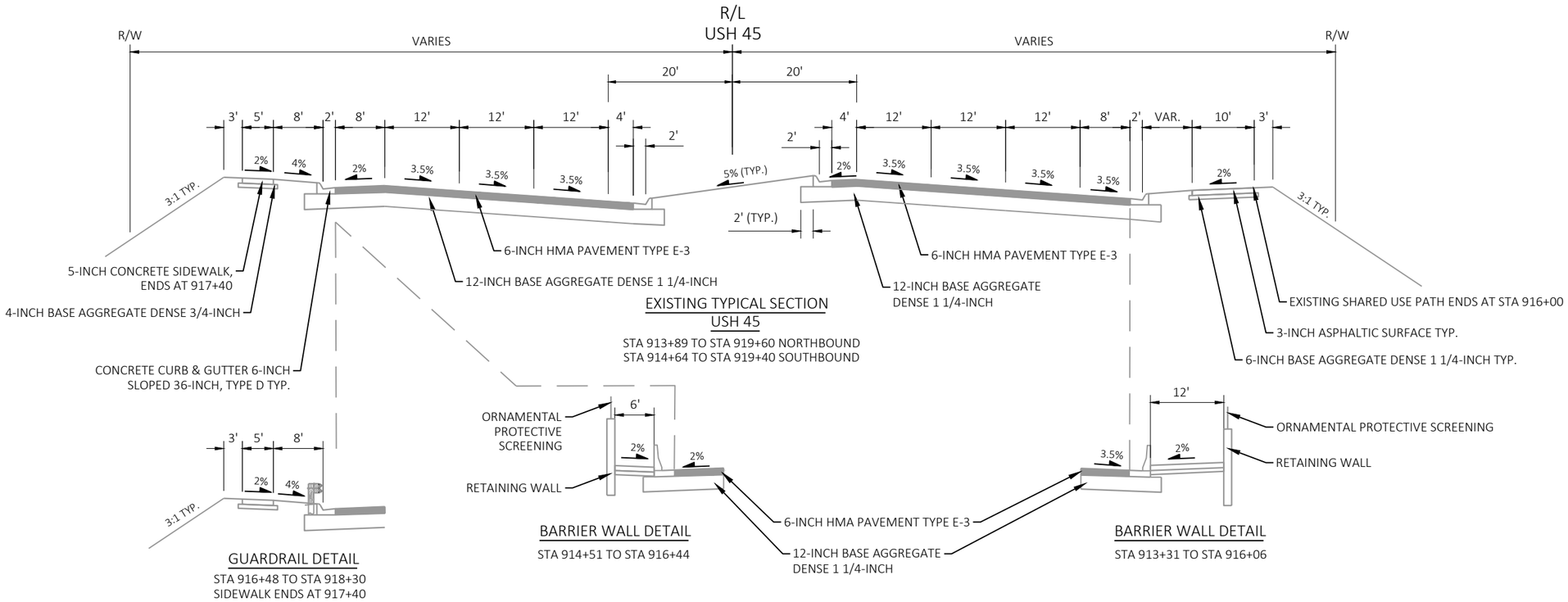
BEGIN CONSTRUCTION
STA 904+00.00

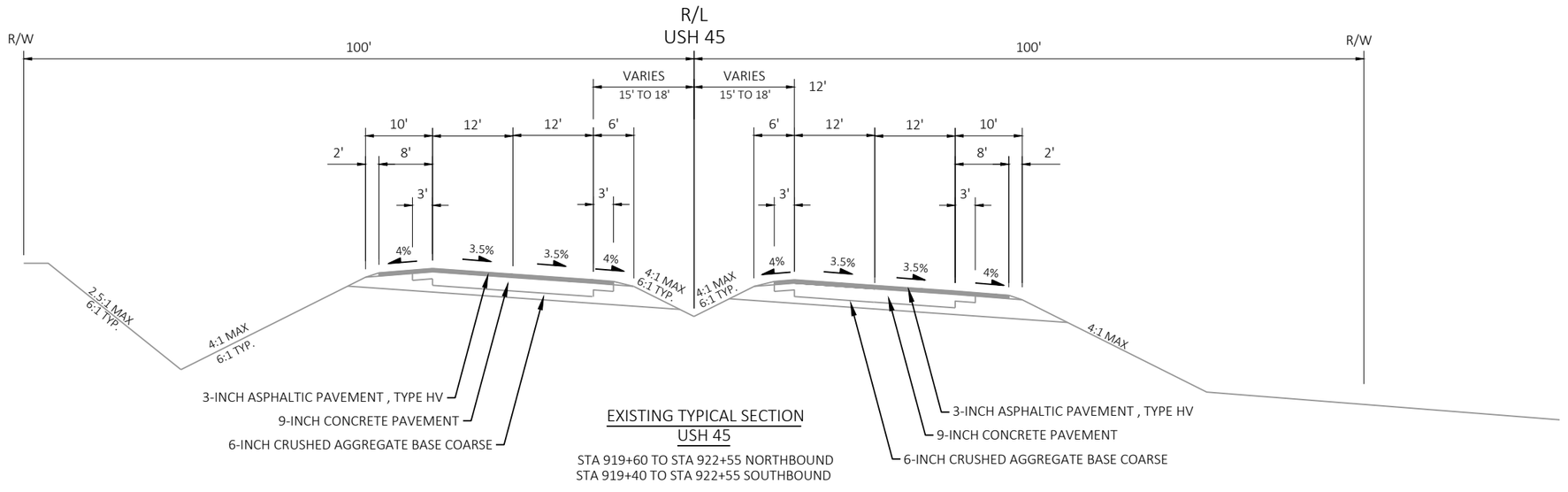
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - Plan 1 IN 100 FT

PLOT DATE : 4/25/2023 9:47 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:500 FT

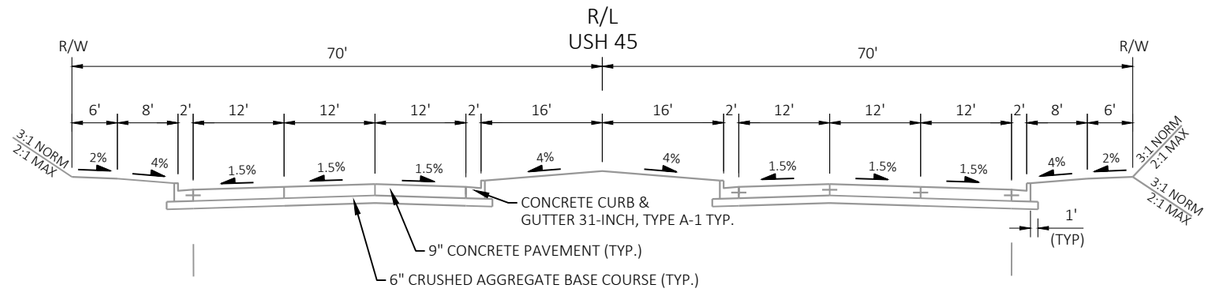
2





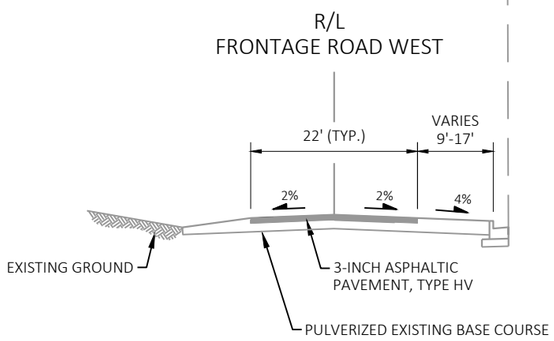
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 5	E

2



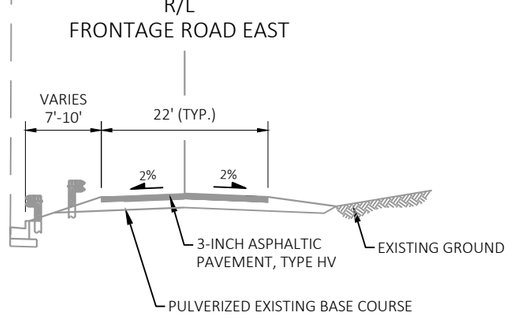
EXISTING TYPICAL SECTION
USH 45

STA 922+55 TO STA 968+80
EXISTING CROSS SLOPES VARY AT
HORIZONTAL CURVES
+2% AND -2% ADJACENT TO
SPEEDWAY DRIVE



EXISTING TYPICAL SECTION
FRONTAGE ROAD WEST

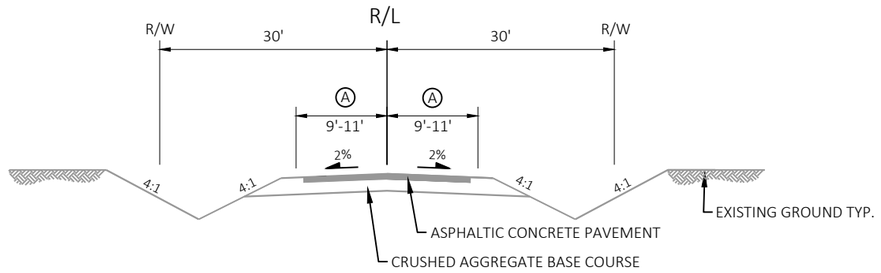
STA 923+43 TO STA 928+19



EXISTING TYPICAL SECTION
FRONTAGE ROAD EAST

STA 923+62 TO STA 933+56

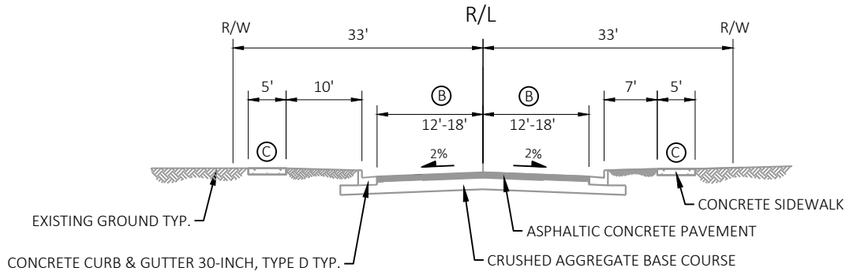
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 6	E



EXISTING TYPICAL SECTION

CORTEZ CIRCLE
PRAIRIEWOOD LANE
SPEEDWAY DRIVE

Ⓐ PHYLLIS LANE = 9'
HERDA PLACE = 9'
CORTEZ ROAD = 11'



EXISTING TYPICAL SECTION

CORTEZ CIRCLE
PRAIRIEWOOD LANE
SPEEDWAY DRIVE

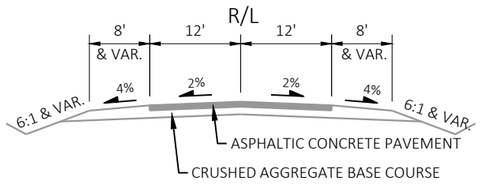
Ⓑ CORTEZ CIRCLE = 16'
PRAIRIEWOOD LANE = 12'
SPEEDWAY DRIVE = 18'

Ⓒ EXISTING SIDEWALK ONLY AT
PRAIRIEWOOD LANE LT AND
SPEEDWAY DRIVE RT

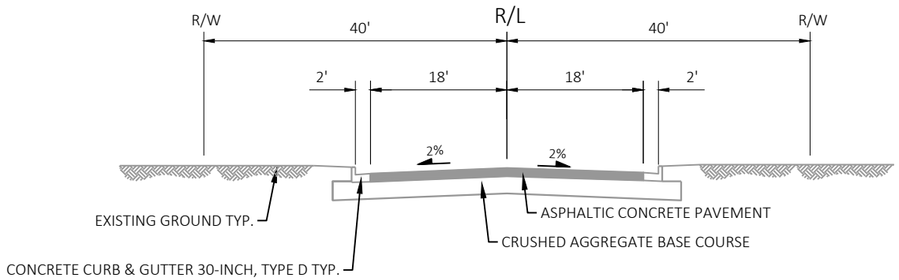
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 7	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020303-ts 1in-20ft
PLOT DATE : 4/28/2023 5:28 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

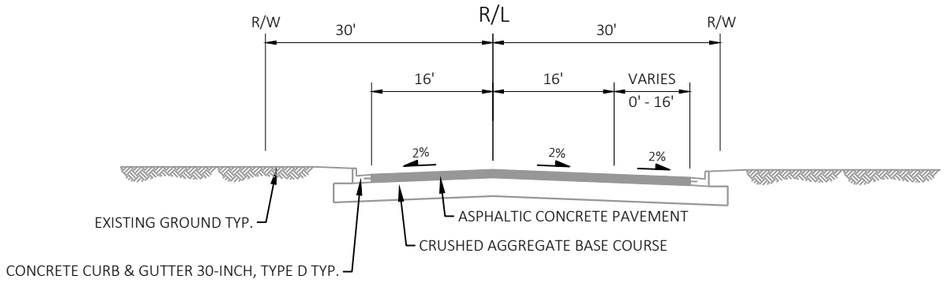
2



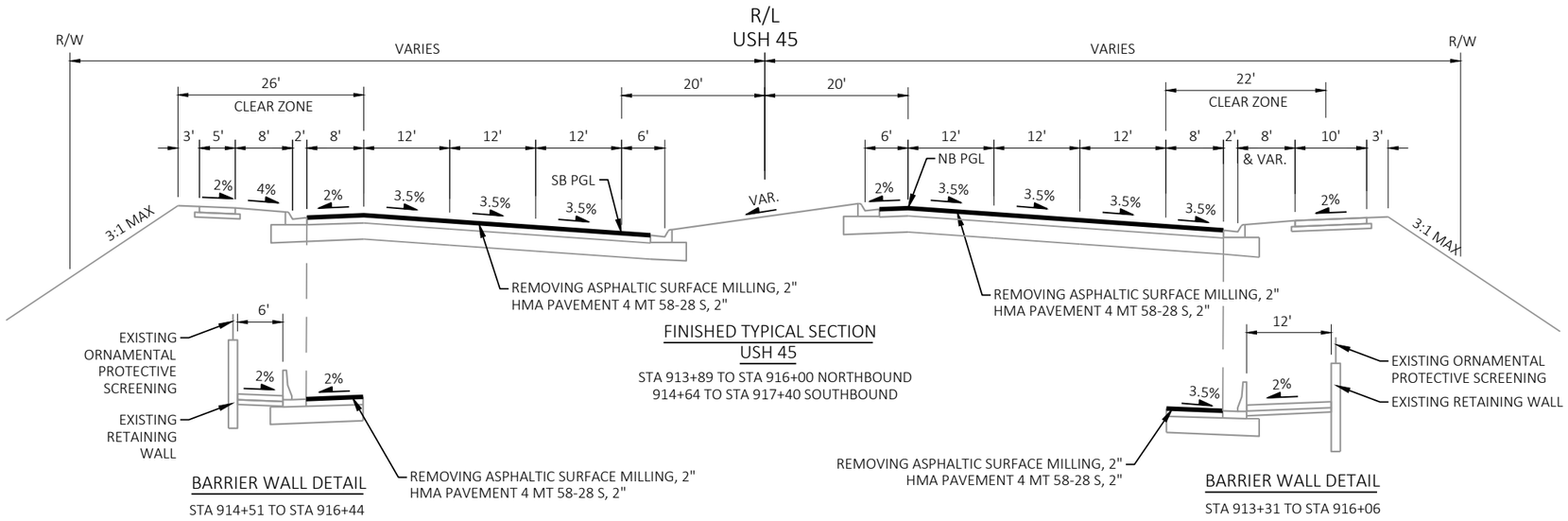
EXISTING TYPICAL SECTION
RAWSON NW RAMP
STA 245+23 TO STA 248+40



EXISTING TYPICAL SECTION
WHITNALL EDGE ROAD



EXISTING TYPICAL SECTION
VENTURE DRIVE



FINISHED TYPICAL SECTION
USH 45

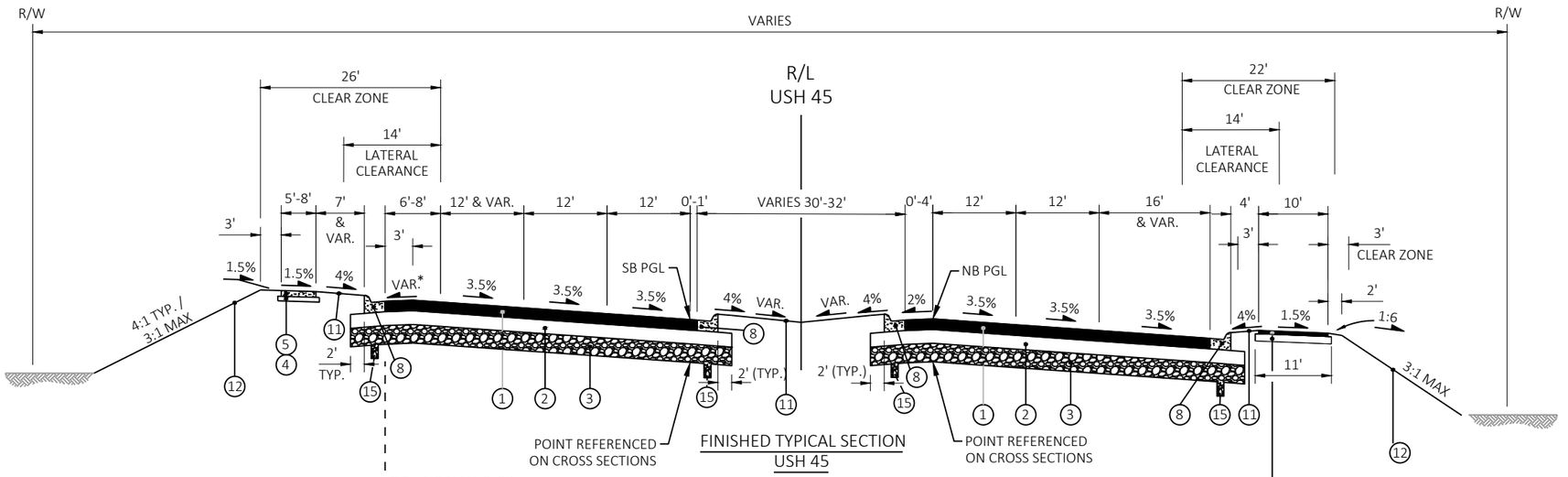
STA 913+89 TO STA 916+00 NORTHBOUND
914+64 TO STA 917+40 SOUTHBOUND

BARRIER WALL DETAIL

STA 914+51 TO STA 916+44

BARRIER WALL DETAIL

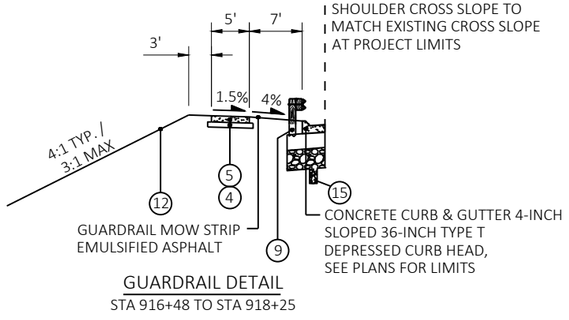
STA 913+31 TO STA 916+06



FINISHED TYPICAL SECTION
USH 45

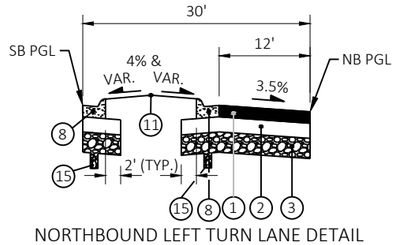
STA 916+00 TO STA 923+56 (NORTHBOUND)
STA 917+40 TO STA 921+06 (SOUTHBOUND)

* 2% NORMAL SLOPE
SHOULDER CROSS SLOPE TO
MATCH EXISTING CROSS SLOPE
AT PROJECT LIMITS



GUARDRAIL DETAIL

STA 916+48 TO STA 918+25



NORTHBOUND LEFT TURN LANE DETAIL

STA 920+09 TO STA 922+84

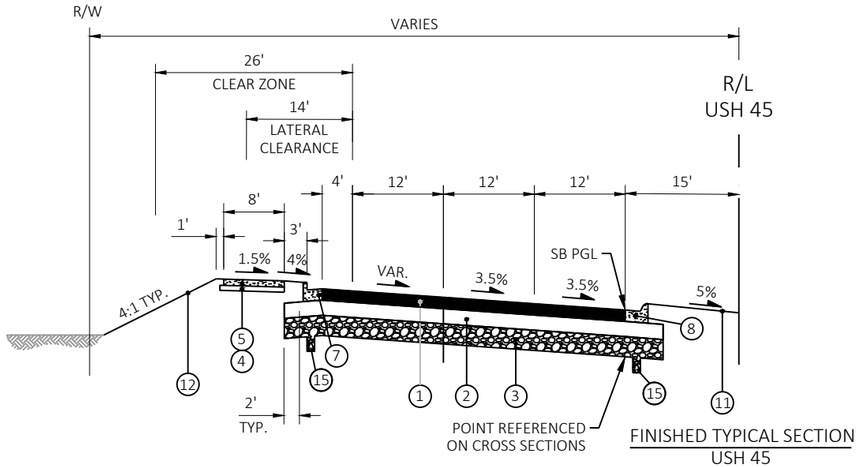
LEGEND

1. HMA PAVEMENT - 6 3/4" THICKNESS
   UPPER LIFT 4 MT 58-28 S, 1 3/4"
   LOWER LIFT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
2. BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCH
3. BREAKER RUN 16-INCH
4. BASE AGGREGATE DENSE 1 1/4-INCH, 4-INCH, 6' WIDTH
5. CONCRETE SIDEWALK 5-INCH
6. CONCRETE CURB & GUTTER 18-INCH TYPE D
7. CONCRETE CURB & GUTTER 30-INCH TYPE D
8. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. MGS GUARDRAIL 3
10. BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
11. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A
12. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING
13. CONCRETE SIDEWALK 5-INCH STAMPING COLORED CONCRETE
14. BASE AGGREGATE DENSE 1-1/4 INCH, 4-INCH
15. PIPE UNDERDRAIN 6-INCH

NOTES

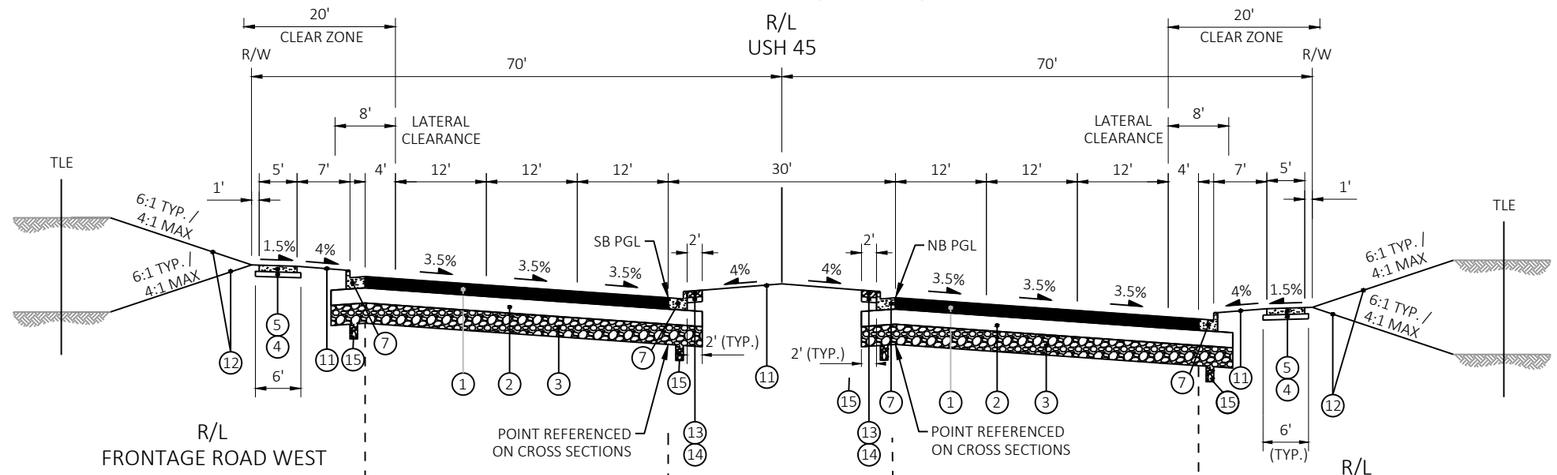
1. PGL IS THE POINT REFERENCED ON THE PROFILE.
2. THE 4' WIDTH BEYOND THE OUTSIDE LANE IS AN URBAN PAVED SHOULDER.
3. WHEN THE MEDIAN IS LESS THAN 8' WIDE (BOC TO BOC) THE SEEDING SHALL BE REPLACED WITH CONCRETE SIDEWALK 5-INCH.
4. SIDE ROAD STATION LIMITS ARE LISTED TO USH 45 INTERSECTION.
5. SEE PLANS AND DETAILS FOR LIMITS OF SIDE ROAD CURB AND GUTTER.

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	FINISHED TYPICAL SECTIONS	SHEET 9	E

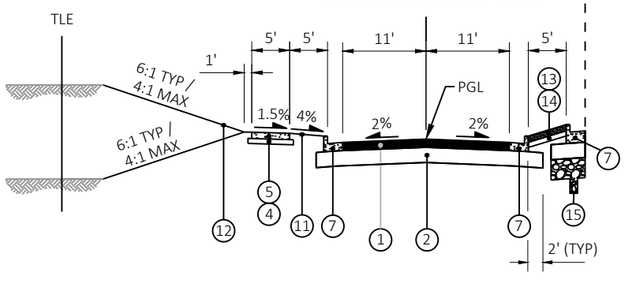


FINISHED TYPICAL SECTION
USH 45

STA 921+06 TO STA 923+56 (SOUTHBOUND)



R/L
FRONTAGE ROAD WEST

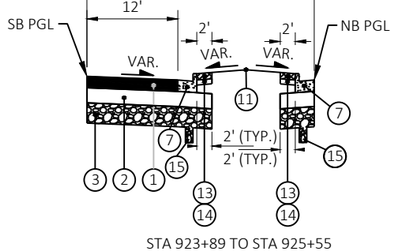


FINISHED TYPICAL SECTION
FRONTAGE ROAD WEST

STA 923+44 TO STA 928+13 (USH 45)
STA 325+40 TO STA 330+18
(FRONTAGE ROAD WEST)

FINISHED TYPICAL SECTION
USH 45

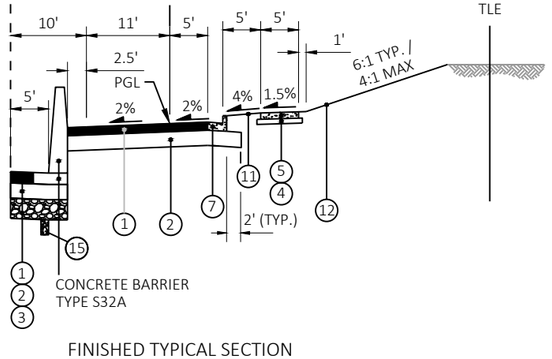
STA 923+56 TO STA 928+31
INCLUDES S.E. TRANSITION
FROM 925+48 TO 928+31



STA 923+89 TO STA 925+55

SOUTHBOUND LEFT TURN LANE DETAIL

R/L
FRONTAGE ROAD EAST



FINISHED TYPICAL SECTION
FRONTAGE ROAD EAST

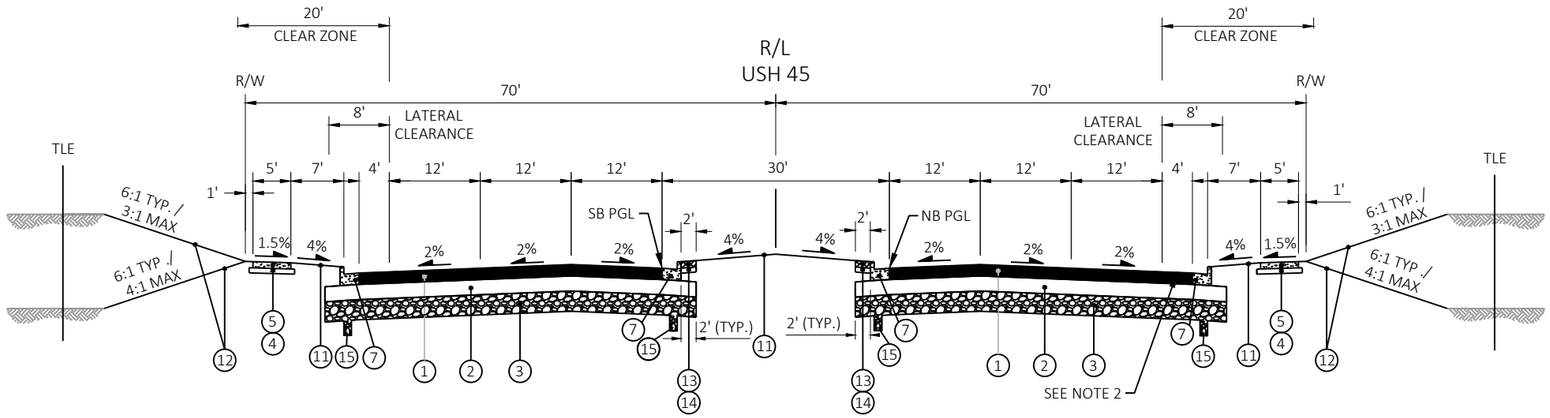
STA 923+48 TO STA 933+82 (USH 45)
STA 350+00 TO STA 360+25
(FRONTAGE ROAD EAST)

LEGEND

1. HMA PAVEMENT - 6 3/4" THICKNESS
   UPPER LIFT 4 MT 58-28 S, 1 3/4"
   LOWER LIFT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
2. BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCH
3. BREAKER RUN 16-INCH
4. BASE AGGREGATE DENSE 1 1/4-INCH, 4-INCH, 6' WIDTH
5. CONCRETE SIDEWALK 5-INCH
6. CONCRETE CURB & GUTTER 18-INCH TYPE D
7. CONCRETE CURB & GUTTER 30-INCH TYPE D
8. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. MGS GUARDRAIL 3
10. BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
11. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A
12. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING
13. CONCRETE SIDEWALK 5-INCH STAMPING COLORED CONCRETE
14. BASE AGGREGATE DENSE 1-1/4 INCH, 4-INCH
15. PIPE UNDERDRAIN 6-INCH

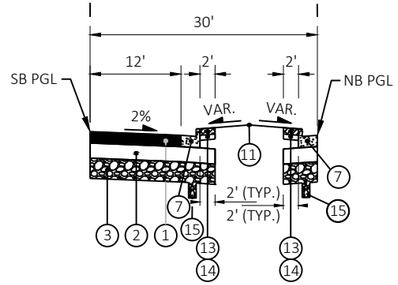
NOTES

1. PGL IS THE POINT REFERENCED ON THE PROFILE.
2. THE 4' WIDTH BEYOND THE OUTSIDE LANE IS AN URBAN PAVED SHOULDER.
3. WHEN THE MEDIAN IS LESS THAN 8' WIDE (BOC TO BOC) THE SEEDING SHALL BE REPLACED WITH CONCRETE SIDEWALK 5-INCH.
4. SIDE ROAD STATION LIMITS ARE LISTED TO USH 45 INTERSECTION.
5. SEE PLANS AND DETAILS FOR LIMITS OF SIDE ROAD CURB AND GUTTER.



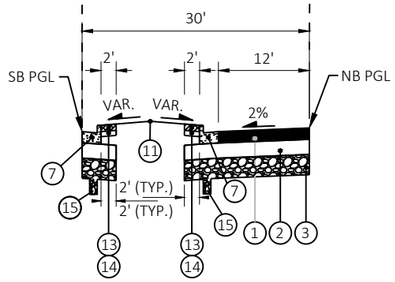
FINISHED TYPICAL SECTION
USH 45

STA 928+31 TO STA 940+34
STA 967+33 TO STA 968+80



SOUTHBOUND LEFT TURN LANE DETAIL

STA 934+16 TO STA 935+55
STA 967+29 TO STA 969+59



NORTHBOUND LEFT TURN LANE DETAIL

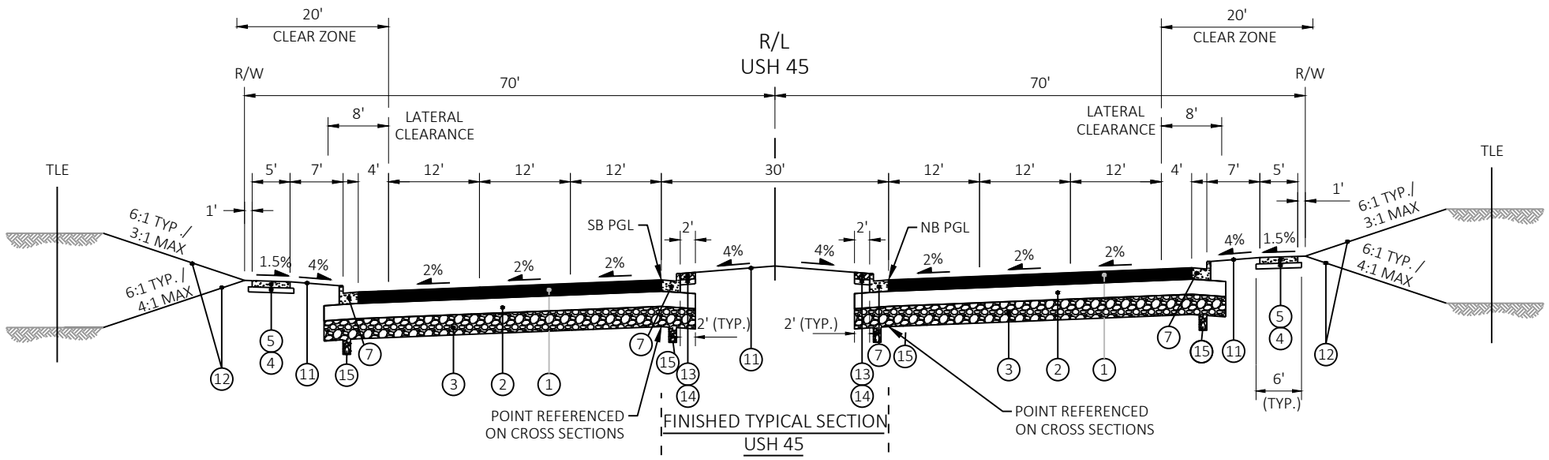
STA 930+95 TO STA 933+48
STA 938+45 TO STA 939+72

LEGEND

1. HMA PAVEMENT - 6 3/4" THICKNESS
   UPPER LIFT 4 MT 58-28 S, 1 3/4"
   LOWER LIFT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
2. BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCH
3. BREAKER RUN 16-INCH
4. BASE AGGREGATE DENSE 1 1/4-INCH, 4-INCH, 6' WIDTH
5. CONCRETE SIDEWALK 5-INCH
6. CONCRETE CURB & GUTTER 18-INCH TYPE D
7. CONCRETE CURB & GUTTER 30-INCH TYPE D
8. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. MGS GUARDRAIL 3
10. BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
11. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A
12. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING
13. CONCRETE SIDEWALK 5-INCH STAMPING COLORED CONCRETE
14. BASE AGGREGATE DENSE 1-1/4 INCH, 4-INCH
15. PIPE UNDERDRAIN 6-INCH

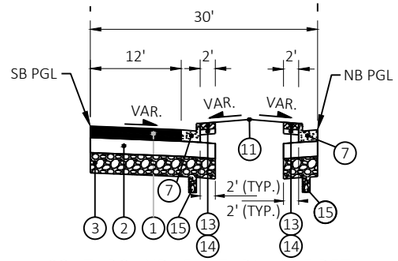
NOTES

1. PGL IS THE POINT REFERENCED ON THE PROFILE.
2. THE 4' WIDTH BEYOND THE OUTSIDE LANE IS AN URBAN PAVED SHOULDER.
3. WHEN THE MEDIAN IS LESS THAN 8' WIDE (BOC TO BOC) THE SEEDING SHALL BE REPLACED WITH CONCRETE SIDEWALK 5-INCH.
4. SIDE ROAD STATION LIMITS ARE LISTED TO USH 45 INTERSECTION.
5. SEE PLANS AND DETAILS FOR LIMITS OF SIDE ROAD CURB AND GUTTER.



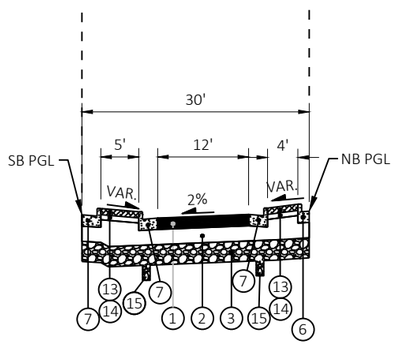
FINISHED TYPICAL SECTION
USH 45

STA 940+34 TO STA 954+28
INCLUDES S.E. TRANSITION
FROM 940+34 TO 942+13, AND
FROM 952+64 TO 954+28



SOUTHBOUND LEFT TURN LANE DETAIL

STA 940+79 TO STA 941+70



NORTHBOUND SLOTTED LEFT TURN LANE DETAIL

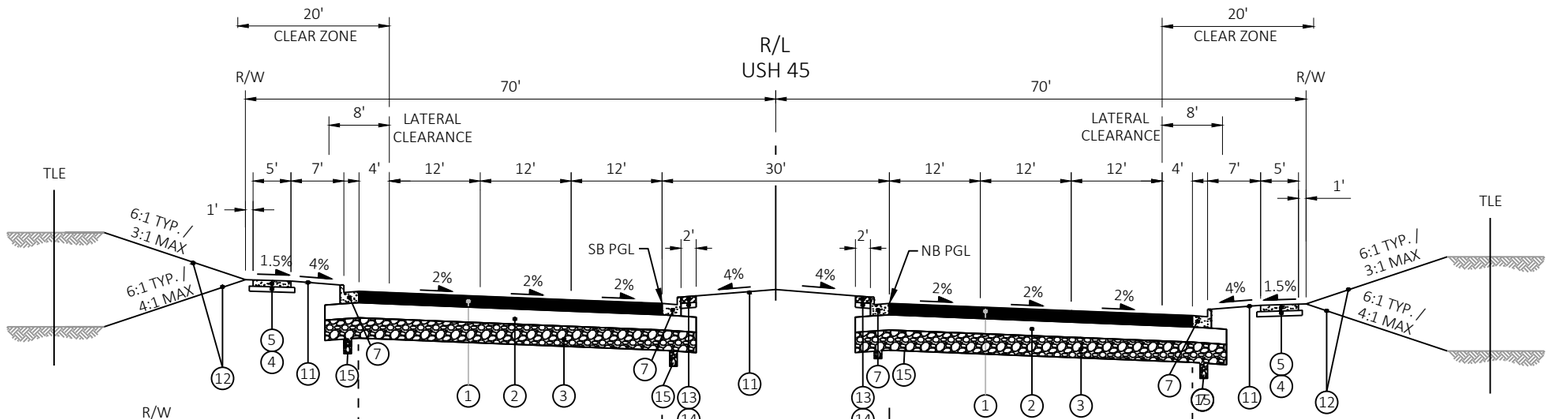
STA 943+95 TO STA 945+52 (S.E. = 2% TOWARDS SB PGL)
STA 949+40 TO STA 951+70 (S.E. = 2% TOWARDS SB PGL)

LEGEND

1. HMA PAVEMENT - 6 3/4" THICKNESS
   UPPER LIFT 4 MT 58-28 S, 1 3/4"
   LOWER LIFT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
2. BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCH
3. BREAKER RUN 16-INCH
4. BASE AGGREGATE DENSE 1 1/4-INCH, 4-INCH, 6' WIDTH
5. CONCRETE SIDEWALK 5-INCH
6. CONCRETE CURB & GUTTER 18-INCH TYPE D
7. CONCRETE CURB & GUTTER 30-INCH TYPE D
8. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. MGS GUARDRAIL 3
10. BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
11. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A
12. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING
13. CONCRETE SIDEWALK 5-INCH STAMPING COLORED CONCRETE
14. BASE AGGREGATE DENSE 1-1/4 INCH, 4-INCH
15. PIPE UNDERDRAIN 6-INCH

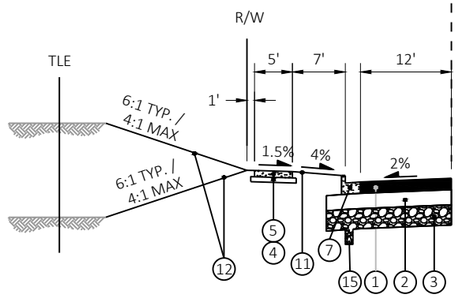
NOTES

1. PGL IS THE POINT REFERENCED ON THE PROFILE.
2. THE 4' WIDTH BEYOND THE OUTSIDE LANE IS AN URBAN PAVED SHOULDER.
3. WHEN THE MEDIAN IS LESS THAN 8' WIDE (BOC TO BOC) THE SEEDING SHALL BE REPLACED WITH CONCRETE SIDEWALK 5-INCH.
4. SIDE ROAD STATION LIMITS ARE LISTED TO USH 45 INTERSECTION.
5. SEE PLANS AND DETAILS FOR LIMITS OF SIDE ROAD CURB AND GUTTER.



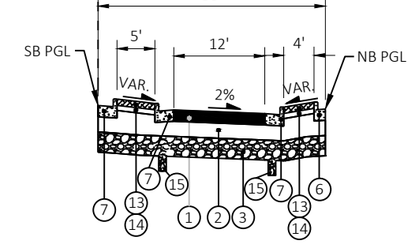
FINISHED TYPICAL SECTION
USH 45

STA 954+28 TO STA 967+33
INCLUDES S.E. TRANSITION
FROM 954+28 TO 955+93, AND
FROM 966+44 TO 968+23



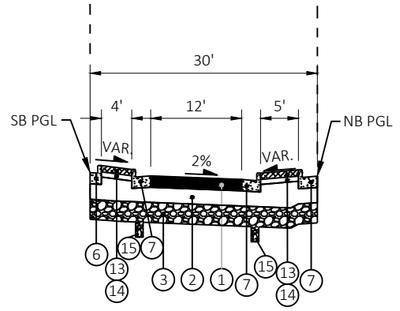
RIGHT TURN LANE TO SPEEDWAY DRIVE DETAIL

STA 952+68 TO STA 955+30



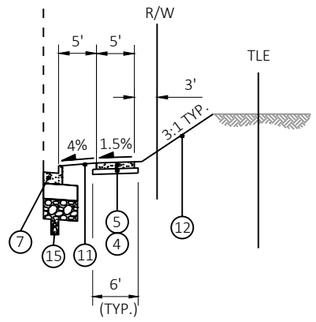
NORTHBOUND SLOTTED LEFT TURN LANE DETAIL

STA 960+74 TO STA 962+60 (S.E. = 2% TOWARDS NB PGL)



SOUTHBOUND SLOTTED LEFT TURN LANE DETAIL

STA 952+39 TO STA 956+15 (S.E. = 2% TOWARDS SB PGL)
STA 963+22 TO STA 965+14 (S.E. = 2% TOWARDS NB PGL)



5' TERRACE DETAIL

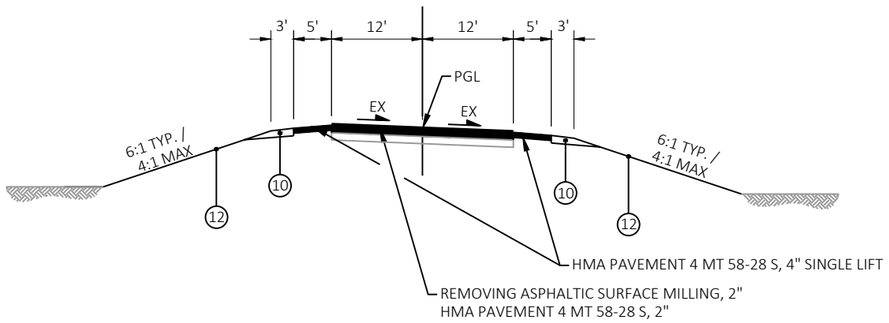
STA 957+00 TO STA 962+00

LEGEND

1. HMA PAVEMENT - 6 3/4" THICKNESS
   UPPER LIFT 4 MT 58-28 S, 1 3/4"
   LOWER LIFT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
2. BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCH
3. BREAKER RUN 16-INCH
4. BASE AGGREGATE DENSE 1 1/4-INCH, 4-INCH, 6' WIDTH
5. CONCRETE SIDEWALK 5-INCH
6. CONCRETE CURB & GUTTER 18-INCH TYPE D
7. CONCRETE CURB & GUTTER 30-INCH TYPE D
8. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. MGS GUARDRAIL 3
10. BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
11. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A
12. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING
13. CONCRETE SIDEWALK 5-INCH STAMPING COLORED CONCRETE
14. BASE AGGREGATE DENSE 1-1/4 INCH, 4-INCH
15. PIPE UNDERDRAIN 6-INCH

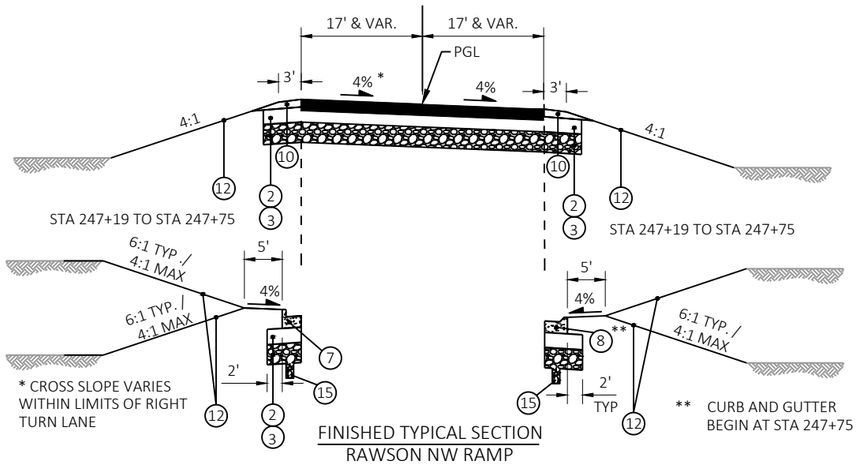
NOTES

1. PGL IS THE POINT REFERENCED ON THE PROFILE.
2. THE 4' WIDTH BEYOND THE OUTSIDE LANE IS AN URBAN PAVED SHOULDER.
3. WHEN THE MEDIAN IS LESS THAN 8' WIDE (BOC TO BOC) THE SEEDING SHALL BE REPLACED WITH CONCRETE SIDEWALK 5-INCH.
4. SIDE ROAD STATION LIMITS ARE LISTED TO USH 45 INTERSECTION.
5. SEE PLANS AND DETAILS FOR LIMITS OF SIDE ROAD CURB AND GUTTER.



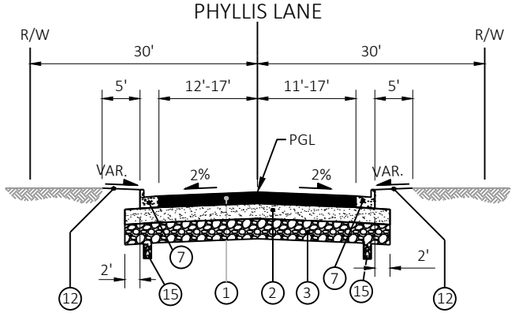
FINISHED TYPICAL SECTION
RAWSON NW RAMP

STA 245+23 TO STA 247+19



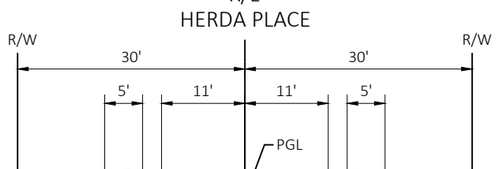
FINISHED TYPICAL SECTION
RAWSON NW RAMP

STA 247+19 TO STA 250+00



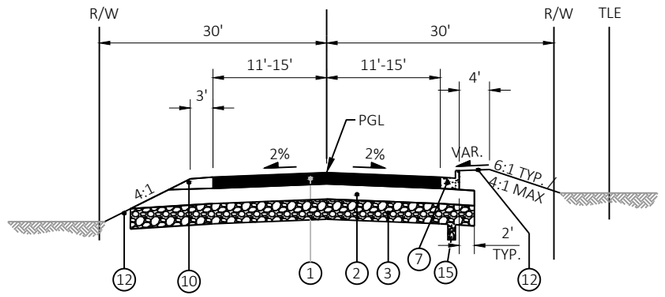
FINISHED TYPICAL SECTION
PHYLLIS LANE

STA 300+00 TO STA 301+35



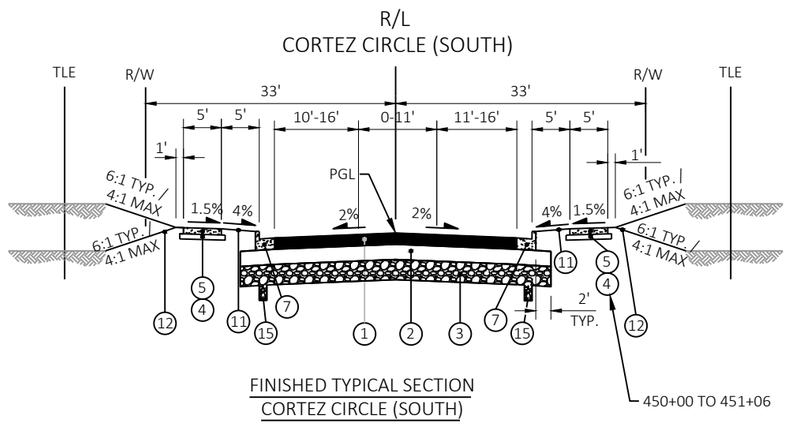
FINISHED TYPICAL SECTION
HERDA PLACE

STA 400+00 TO STA 401+14



FINISHED TYPICAL SECTION
CORTEZ ROAD

STA 447+99 TO STA 450+00



FINISHED TYPICAL SECTION
CORTEZ CIRCLE (SOUTH)

STA 450+00 TO STA 452+19

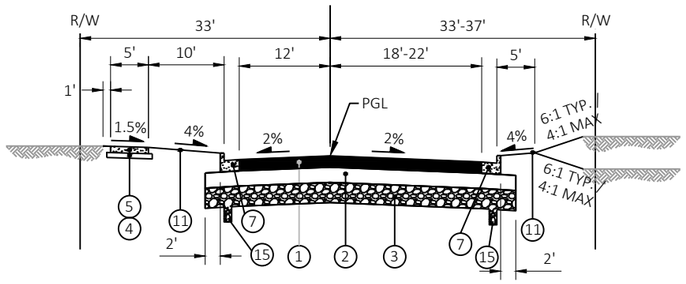
LEGEND

1. HMA PAVEMENT - 6 3/4" THICKNESS
   UPPER LIFT 4 MT 58-28 S, 1 3/4"
   LOWER LIFT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
2. BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCH
3. BREAKER RUN 16-INCH
4. BASE AGGREGATE DENSE 1 1/4-INCH, 4-INCH, 6' WIDTH
5. CONCRETE SIDEWALK 5-INCH
6. CONCRETE CURB & GUTTER 18-INCH TYPE D
7. CONCRETE CURB & GUTTER 30-INCH TYPE D
8. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. MGS GUARDRAIL 3
10. BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
11. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A
12. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING
13. CONCRETE SIDEWALK 5-INCH STAMPING COLORED CONCRETE
14. BASE AGGREGATE DENSE 1-1/4 INCH, 4-INCH
15. PIPE UNDERDRAIN 6-INCH

NOTES

1. PGL IS THE POINT REFERENCED ON THE PROFILE.
2. THE 4' WIDTH BEYOND THE OUTSIDE LANE IS AN URBAN PAVED SHOULDER.
3. WHEN THE MEDIAN IS LESS THAN 8' WIDE (BOC TO BOC) THE SEEDING SHALL BE REPLACED WITH CONCRETE SIDEWALK 5-INCH.
4. SIDE ROAD STATION LIMITS ARE LISTED TO USH 45 INTERSECTION.
5. SEE PLANS AND DETAILS FOR LIMITS OF SIDE ROAD CURB AND GUTTER.

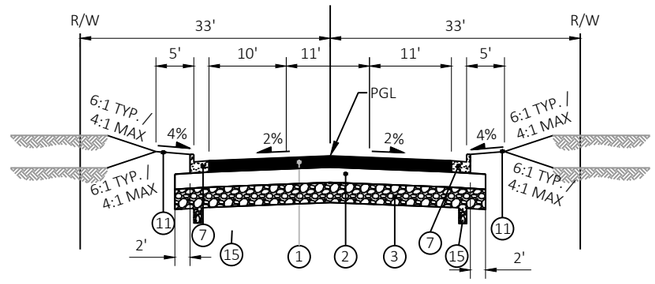
R/L
PRAIRIEWOOD LANE



FINISHED TYPICAL SECTION
PRAIRIEWOOD LANE

STA 498+80 TO STA 500+00

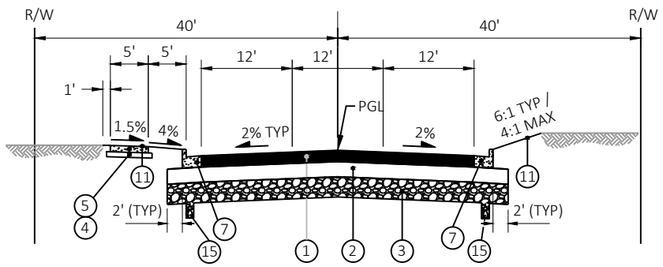
R/L
CORTEZ CIRCLE (NORTH)



FINISHED TYPICAL SECTION
CORTEZ CIRCLE (NORTH)

STA 500+00 TO STA 501+25

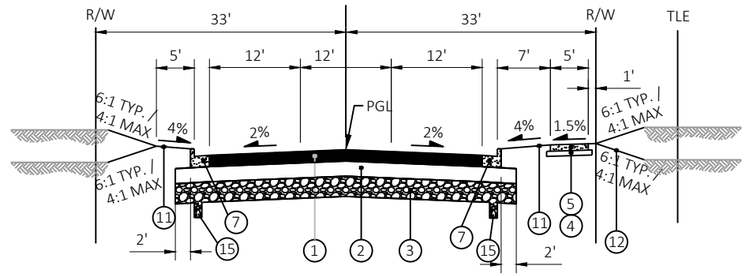
R/L
WHITNALL EDGE ROAD



FINISHED TYPICAL SECTION
WHITNALL EDGE ROAD

STA 600+00 TO STA 602+00

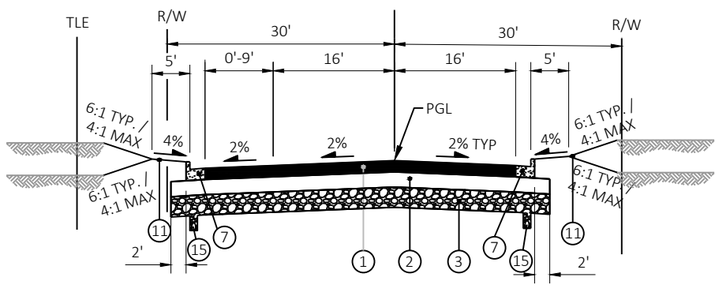
R/L
SPEEDWAY DRIVE



FINISHED TYPICAL SECTION
SPEEDWAY DRIVE

STA 548+31 TO STA 550+78

R/L
VENTURE DRIVE



FINISHED TYPICAL SECTION
VENTURE DRIVE

STA 650+00 TO STA 651+15

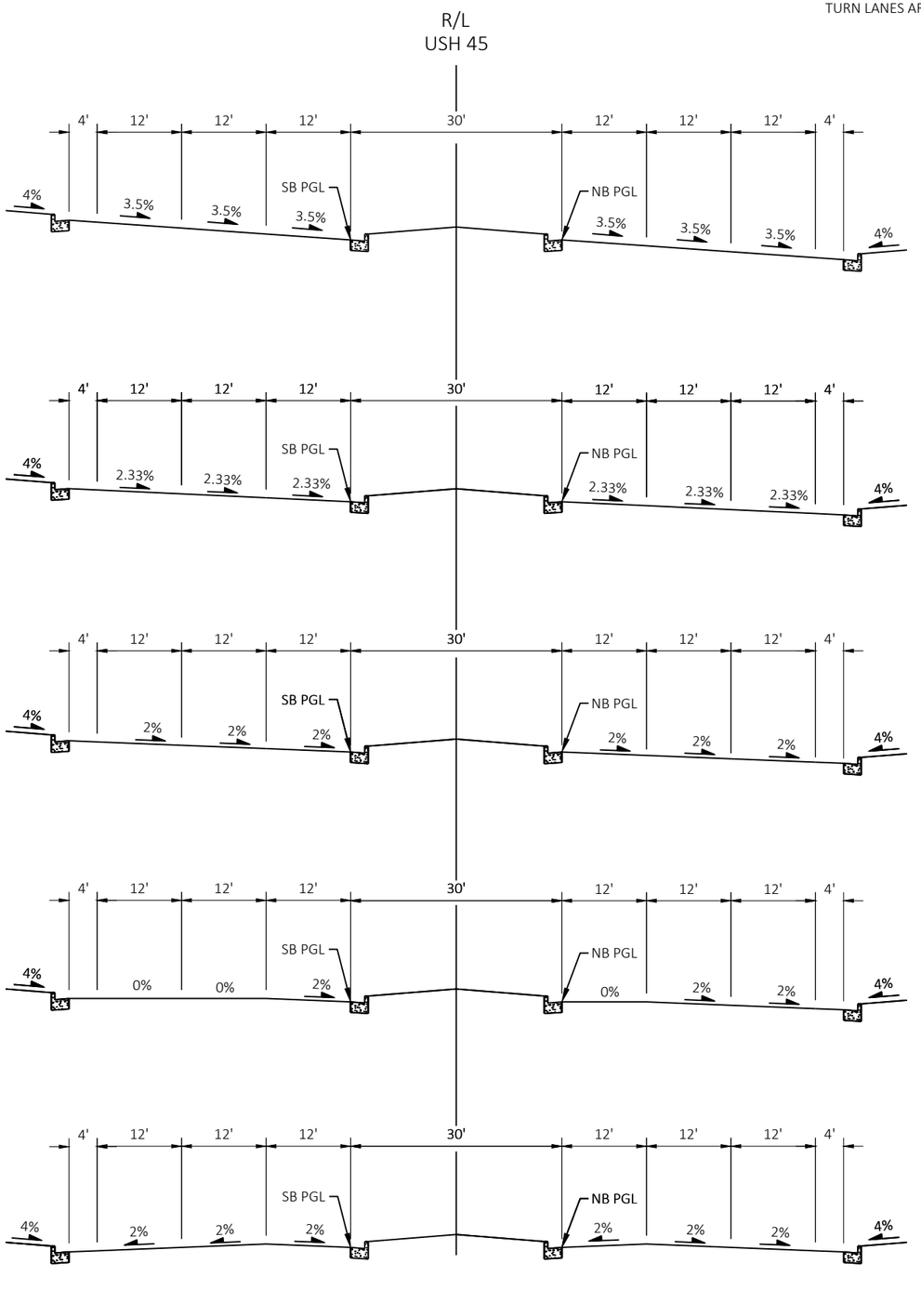
LEGEND

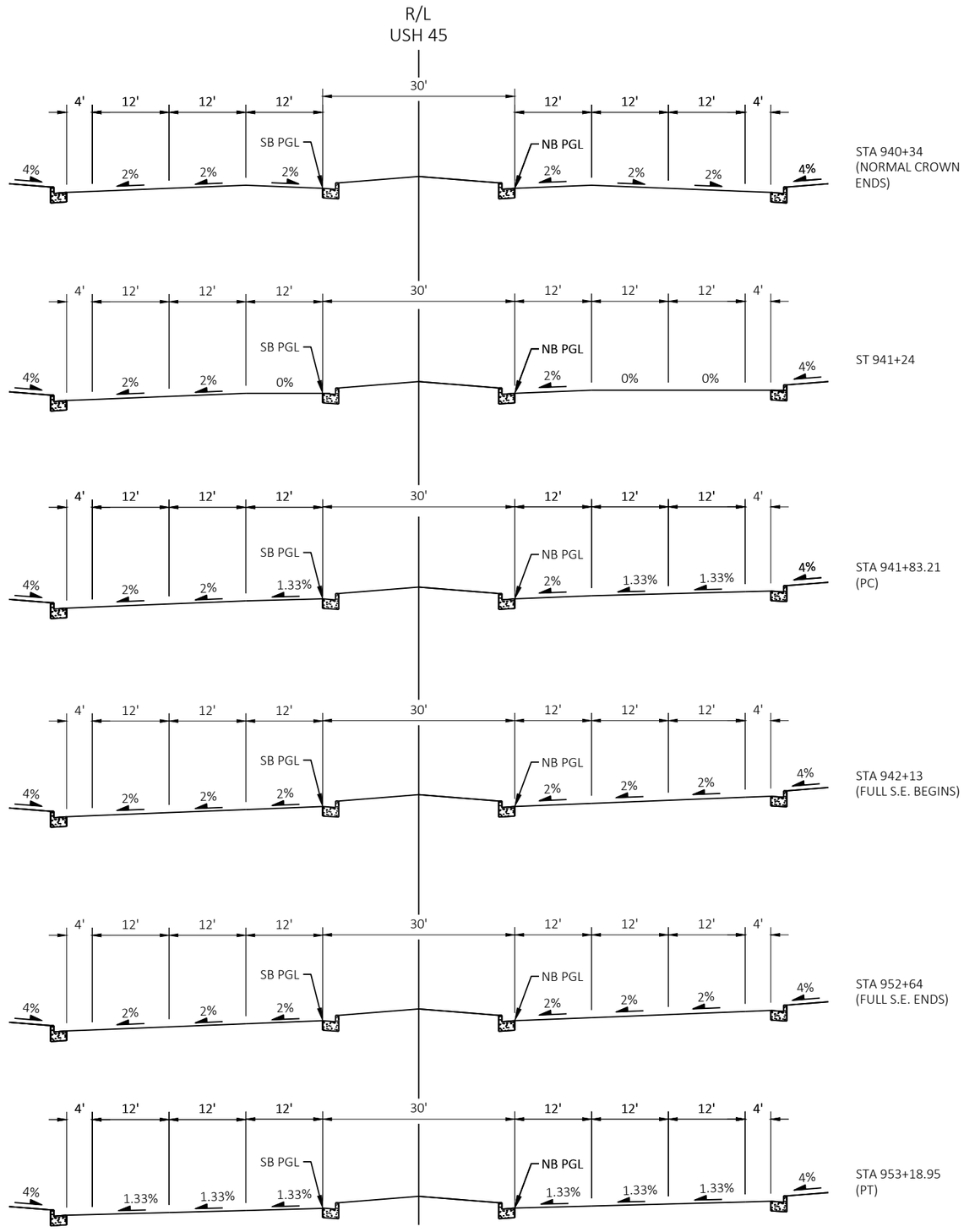
1. HMA PAVEMENT - 6 3/4" THICKNESS
   UPPER LIFT 4 MT 58-28 S, 1 3/4"
   LOWER LIFT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
2. BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCH
3. BREAKER RUN 16-INCH
4. BASE AGGREGATE DENSE 1 1/4-INCH, 4-INCH, 6' WIDTH
5. CONCRETE SIDEWALK 5-INCH
6. CONCRETE CURB & GUTTER 18-INCH TYPE D
7. CONCRETE CURB & GUTTER 30-INCH TYPE D
8. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. MGS GUARDRAIL 3
10. BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
11. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A
12. TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING
13. CONCRETE SIDEWALK 5-INCH STAMPING COLORED CONCRETE
14. BASE AGGREGATE DENSE 1-1/4 INCH, 4-INCH
15. PIPE UNDERDRAIN 6-INCH

NOTES

1. PGL IS THE POINT REFERENCED ON THE PROFILE.
2. THE 4' WIDTH BEYOND THE OUTSIDE LANE IS AN URBAN PAVED SHOULDER.
3. WHEN THE MEDIAN IS LESS THAN 8' WIDE (BOC TO BOC) THE SEEDING SHALL BE REPLACED WITH CONCRETE SIDEWALK 5-INCH.
4. SIDE ROAD STATION LIMITS ARE LISTED TO USH 45 INTERSECTION.
5. SEE PLANS AND DETAILS FOR LIMITS OF SIDE ROAD CURB AND GUTTER.

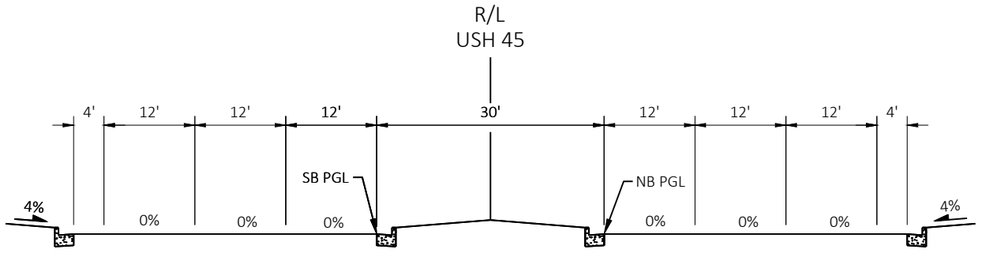
NOTE:
TURN LANES ARE NOT SHOWN.



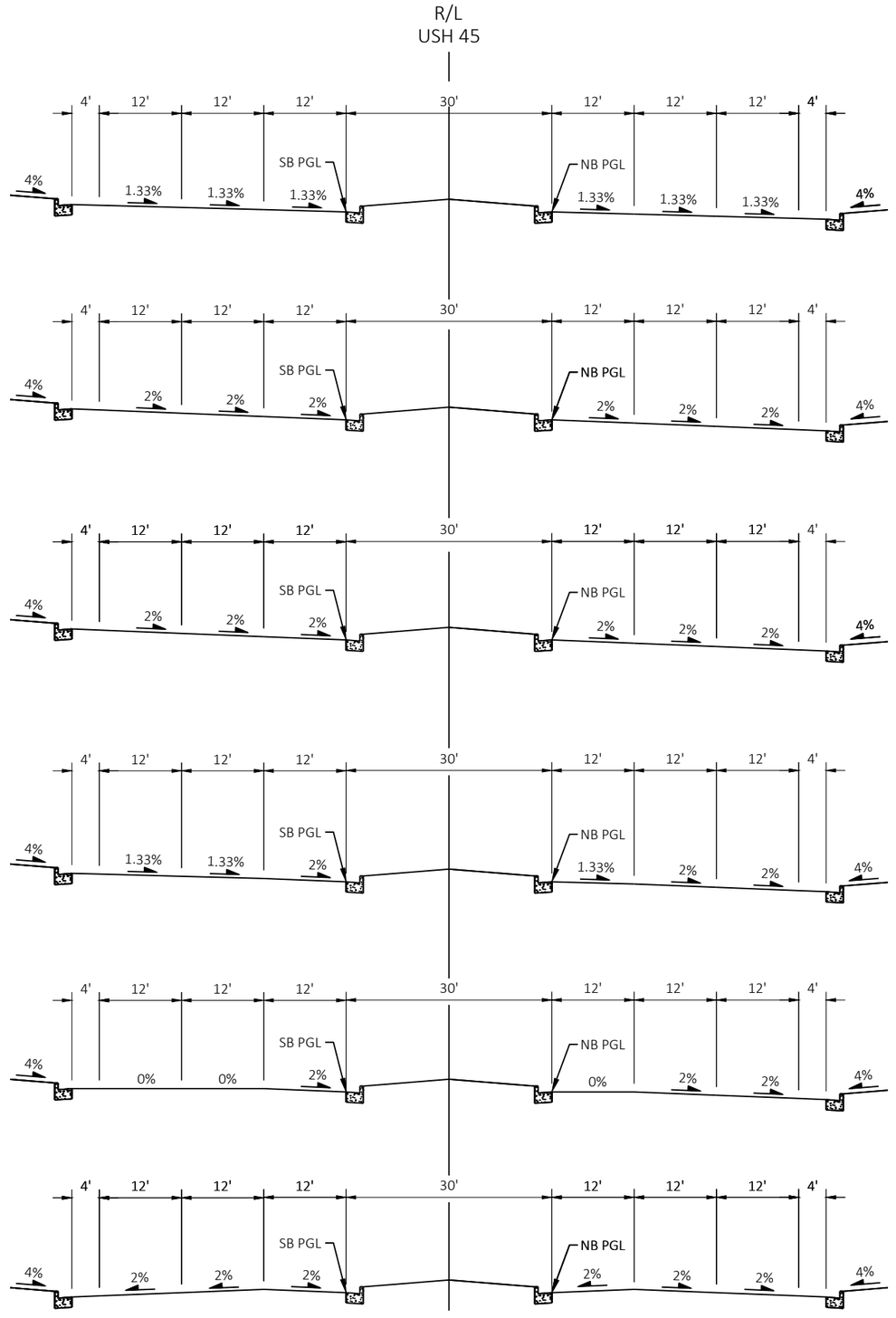


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SUPER ELEVATION TRANSITIONS	SHEET 16	E

NOTE:
TURN LANES ARE NOT SHOWN.



STA 954+28
(LEVEL CROWN)



STA 955+38.00
(PC)

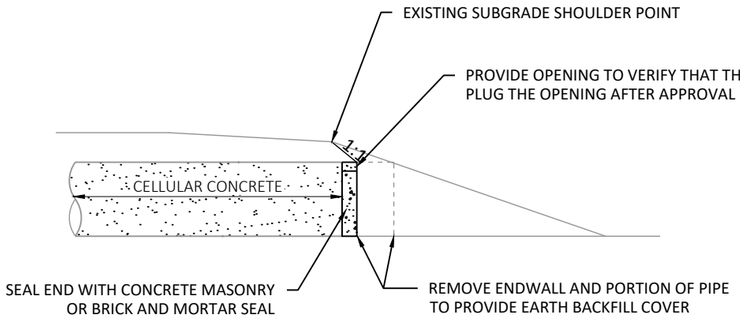
STA 955+93
(FULL S.E. BEGINS)

STA 966+44
(FULL S.E. ENDS)

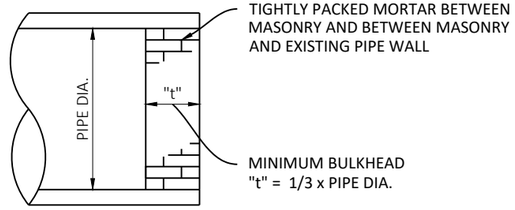
STA 966+73.93
(PT)

STA 967+33
(LEVEL CROWN)

STA 968+23
(BEGIN NORMAL
CROWN)



ABANDONING SEWER

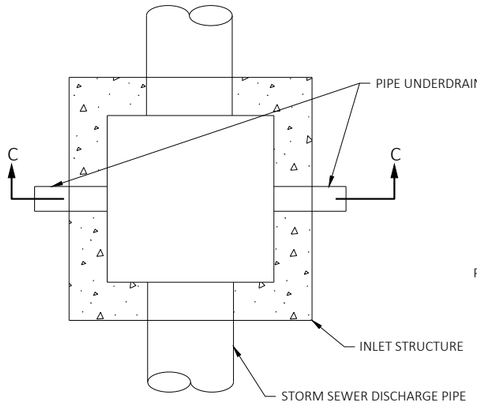


NOTE

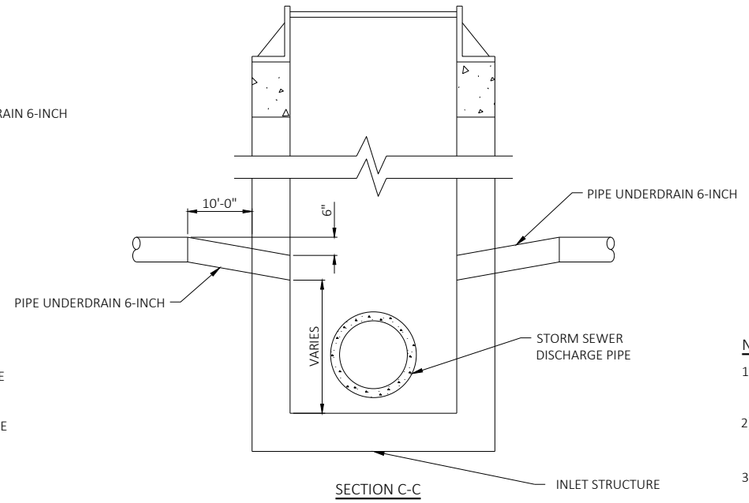
PAID FOR AS "SEALING PIPES".
REMOVAL AND DISPOSAL OF TEMPORARY BULKHEAD IS INCIDENTAL.
SEE PLAN AND MISCELLANEOUS QUANTITIES SHEETS FOR LOCATIONS.

TEMPORARY BULKHEAD PIPE MASONRY

2



PLAN VIEW

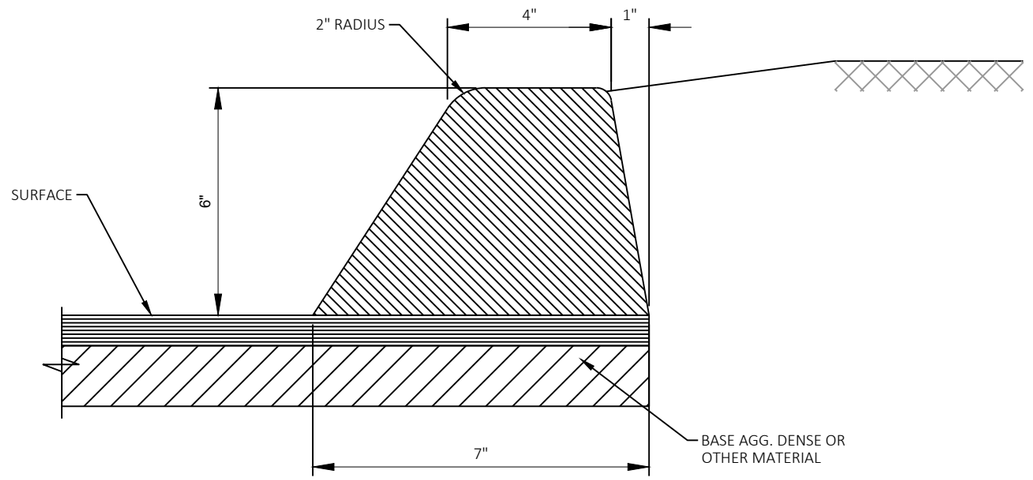


SECTION C-C

NOTES

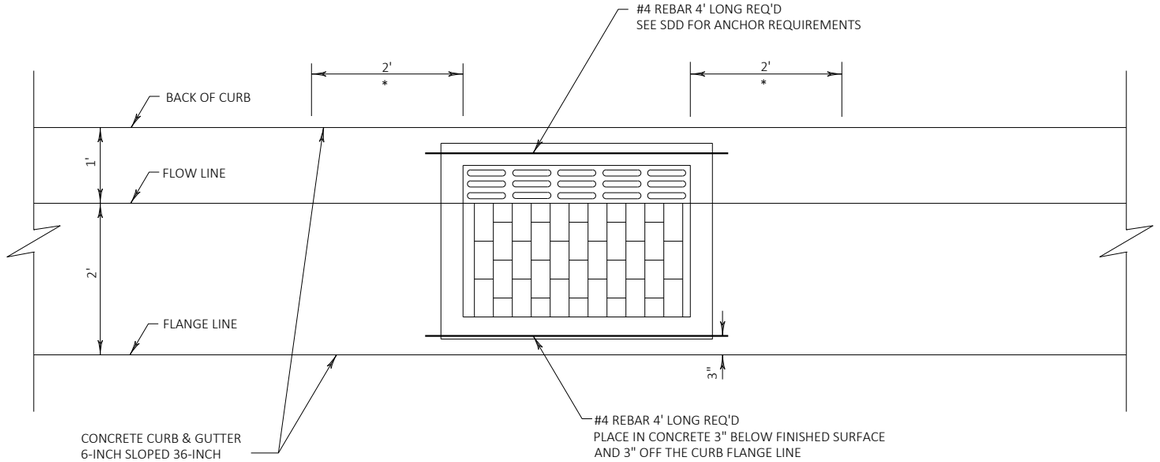
1) CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN, 6-INCH.
2) PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE APPROX 48" BELOW THE PROPOSED TOP OF STRUCTURE.
3) SEE STORM SEWER AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.

UNDERDRAIN OUTFALL AT INLET



ASPHALTIC CURB DETAIL

2



PLAN VIEW

NOTES

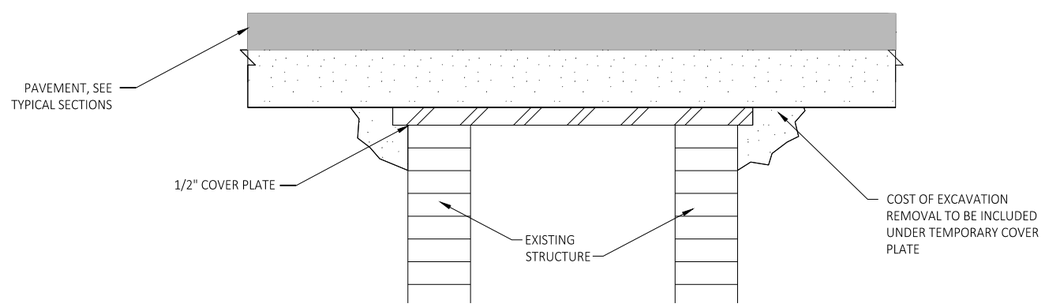
1) SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.

2) THE TWO 2-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH.

3) THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM".

* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

INLET COVERS, TYPE HM



NOTES

1) DETAIL IS FOR STAGING USE ONLY. NOT FOR PERMANENT INSTALLATION.

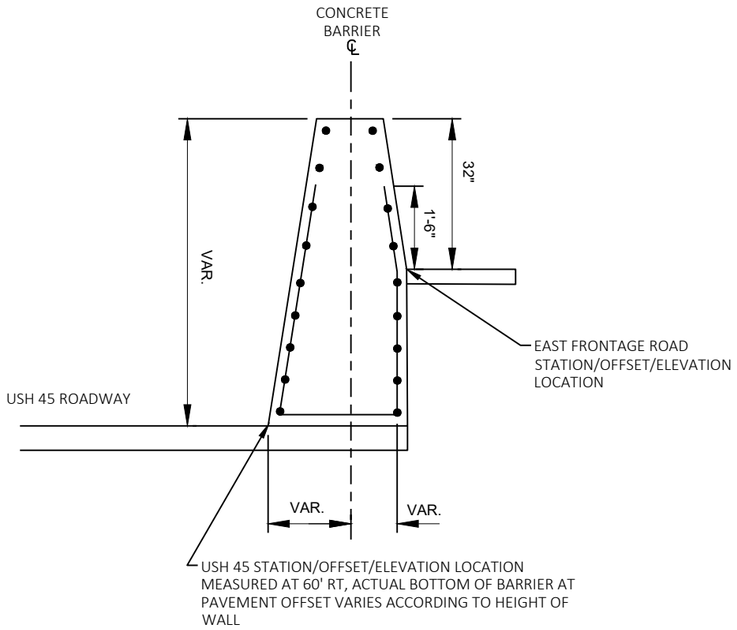
2) INSTALL COVER PLATE TO REST FLAT UPON THE EXISTING STRUCTURE. COVER PLATE SHOULD EXTEND OUTSIDE EDGE OF THE EXISTING MASONRY.

3) THE FOLLOWING ITEMS ARE INCIDENTAL TO ITEM COVER PLATE TEMPORARY:

   A. REMOVE INLET FRAME AND LID
   B. REMOVE 2' MINIMUM CONCRETE BLOCK
   C. FURNISH AND INSTALL COVER PLATE
   D. BACKFILL USING BASE AGGREGATE DENSE 1 1/4 "

TEMPORARY COVER PLATE

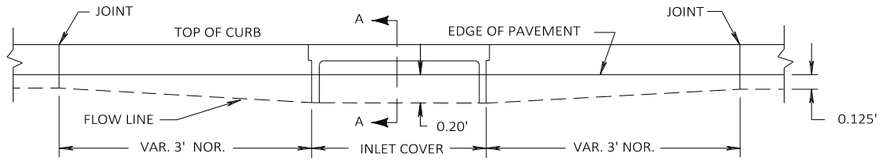
2



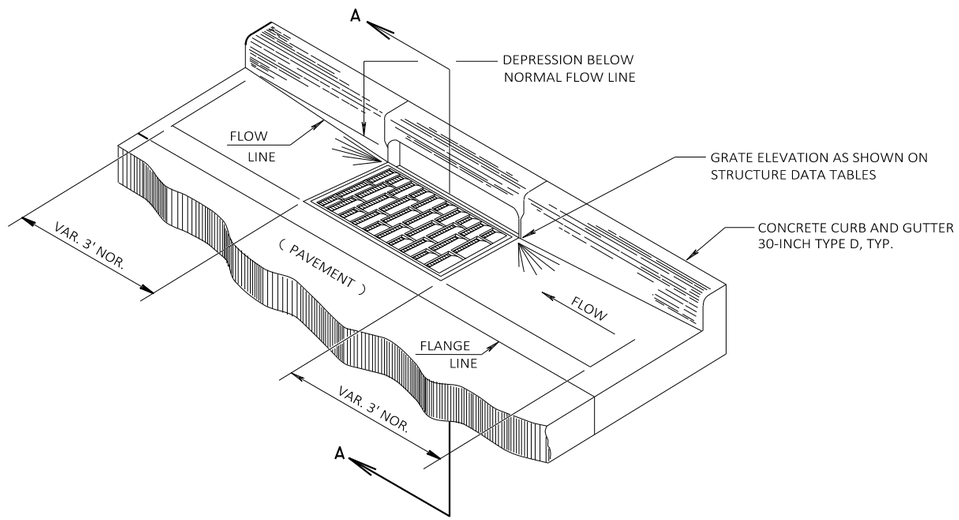
USH 45			EAST FRONTAGE ROAD			
STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION	ELEVATION DIFFERENCE
924+17.14	60.00	786.34	350+66.61	-13.50	786.35	0.01
924+25.00	60.00	786.44	350+74.19	-13.50	786.61	0.17
924+50.00	60.00	787.02	350+98.28	-13.50	787.54	0.52
924+75.00	60.00	787.59	351+22.37	-13.50	788.48	0.89
925+00.00	60.00	788.16	351+46.45	-13.50	789.42	1.26
925+25.00	60.00	788.74	351+70.54	-13.50	790.34	1.60
925+50.00	60.00	789.33	351+94.63	-13.50	791.28	1.95
925+75.00	60.00	789.97	352+18.72	-13.50	792.22	2.25
926+00.00	60.00	790.91	352+42.81	-13.50	793.16	2.25
926+25.00	60.00	791.71	352+67.50	-13.50	794.04	2.33
926+50.00	60.00	792.34	352+92.50	-13.50	794.89	2.55
926+75.00	60.00	792.97	353+17.50	-13.50	795.66	2.69
927+00.00	60.00	793.60	353+42.50	-13.50	796.36	2.76
927+25.00	60.00	794.22	353+67.50	-13.50	796.99	2.77
927+50.00	60.00	794.82	353+92.50	-13.50	797.55	2.73
927+75.00	60.00	795.39	354+17.50	-13.50	798.04	2.65
928+00.00	60.00	795.93	354+42.50	-13.50	798.47	2.54
928+25.00	60.00	796.45	354+67.50	-13.50	798.81	2.36
928+50.00	60.00	796.90	354+92.50	-13.50	799.10	2.20
928+75.00	60.00	797.31	355+17.50	-13.50	799.30	1.99
929+00.00	60.00	797.69	355+42.50	-13.50	799.45	1.76
929+25.00	60.00	798.05	355+67.50	-13.50	799.57	1.52
929+50.00	60.00	798.38	355+92.50	-13.50	799.70	1.32
929+75.00	60.00	798.68	356+17.50	-13.50	799.82	1.14
930+00.00	60.00	798.97	356+42.50	-13.50	799.95	0.98
930+25.00	60.00	799.23	356+67.50	-13.50	800.07	0.84
930+50.00	60.00	799.46	356+92.50	-13.50	800.20	0.74
930+75.00	60.00	799.67	357+17.50	-13.50	800.32	0.65
931+00.00	60.00	799.85	357+42.50	-13.50	800.45	0.60
931+25.00	60.00	800.02	357+67.50	-13.50	800.57	0.55
931+50.00	60.00	800.18	357+92.50	-13.50	800.70	0.52
931+75.00	60.00	800.35	358+17.50	-13.50	800.82	0.47
932+00.00	60.00	800.52	358+42.50	-13.50	800.95	0.43
932+25.00	60.00	800.69	358+67.50	-13.50	801.07	0.38
932+50.00	60.00	800.86	358+92.50	-13.50	801.20	0.34
932+75.00	60.00	801.03	359+17.50	-13.50	801.32	0.29
933+00.00	60.00	801.19	359+42.50	-13.50	801.45	0.26
933+10.20	60.00	801.26	359+52.71	-13.50	801.57	0.31

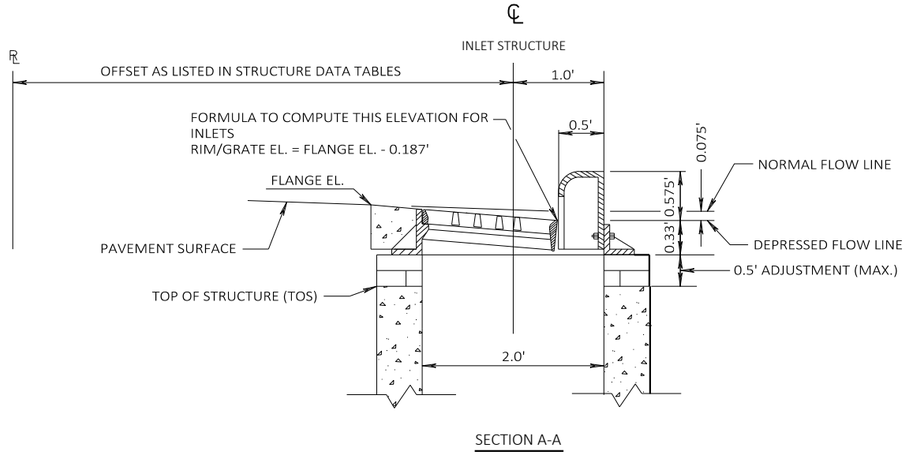
SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL

(TYPE S32A, BETWEEN ADJACENT ROADWAYS)



ELEVATION

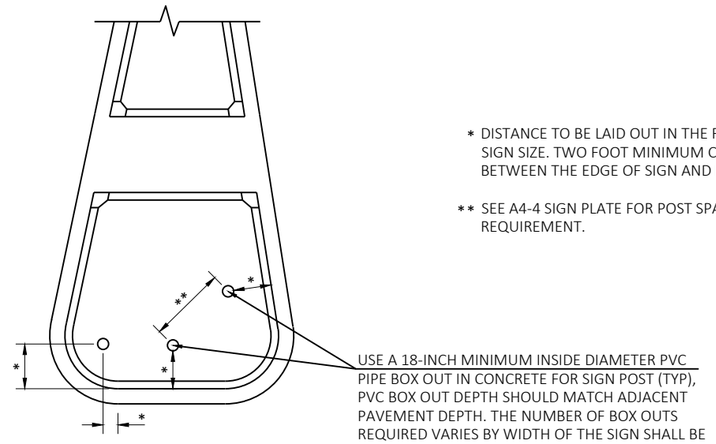




SECTION A-A

CONCRETE CURB & GUTTER 30-INCH TYPE D AT INLETS DETAIL

(TYPE 3 MANHOLE STRUCTURE WITH TYPE H INLET CASTING SHOWN)

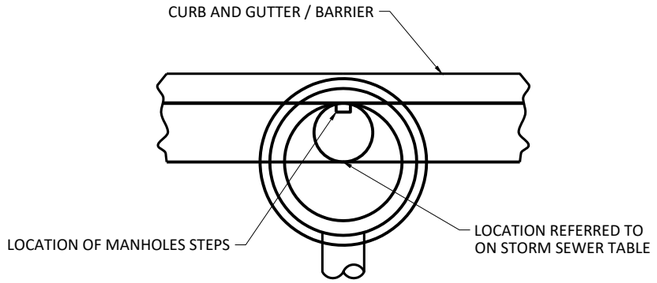


* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND FACE OF CURB.

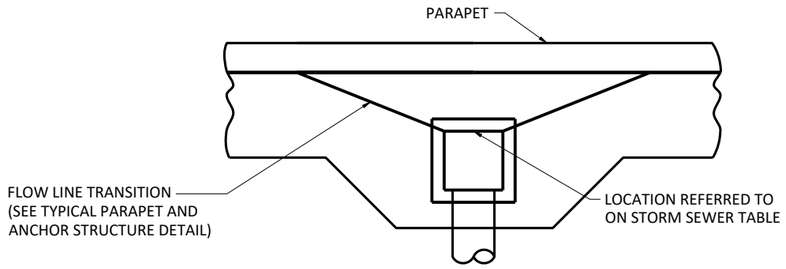
** SEE A4-4 SIGN PLATE FOR POST SPACING REQUIREMENT.

CENTER AND SPLITTER ISLAND SIGN LOCATION DETAIL (TYP.)

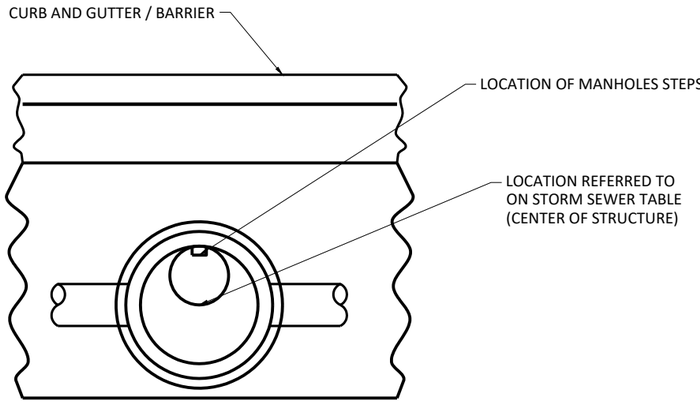
2



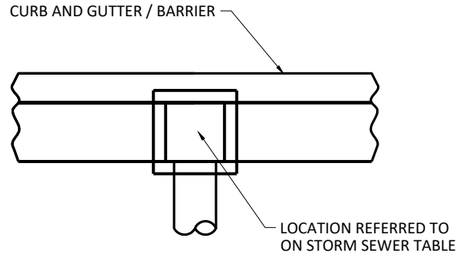
MANHOLE IN CURB AND GUTTER / AT BARRIER



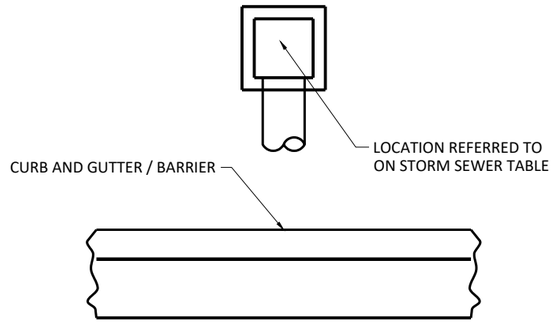
INLET IN RETAINING WALL ANCHOR SLAB



MANHOLE NOT IN CURB AND GUTTER / NOT AT BARRIER



INLET IN CURB AND GUTTER / AT BARRIER



INLET NOT IN CURB AND GUTTER / NOT AT BARRIER

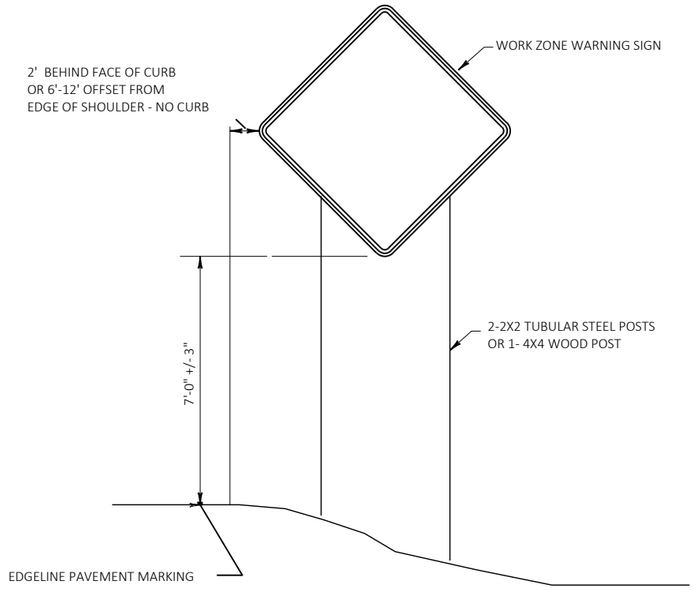
NOTE

1) LOCATION OF STRUCTURE MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

2) LOCATION OF STRUCTURE OPENING DEPENDS ON TYPE OF CASTING. CASTING TYPES ARE SHOWN ON THE STORM SEWER TABLE.

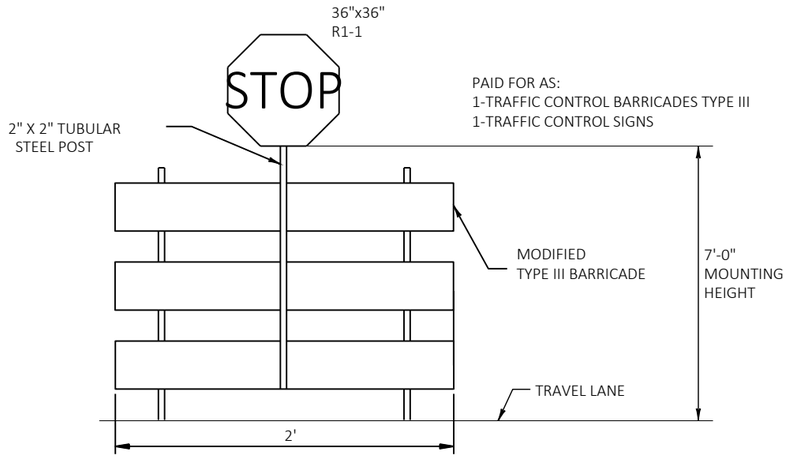
STRUCTURE LOCATION DETAIL

2

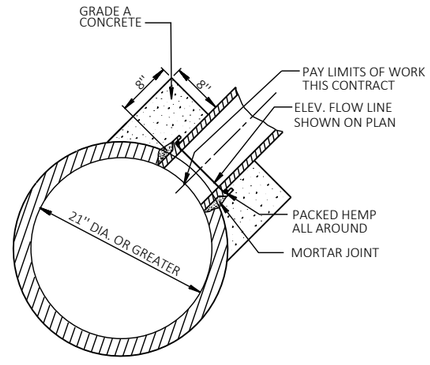


TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE

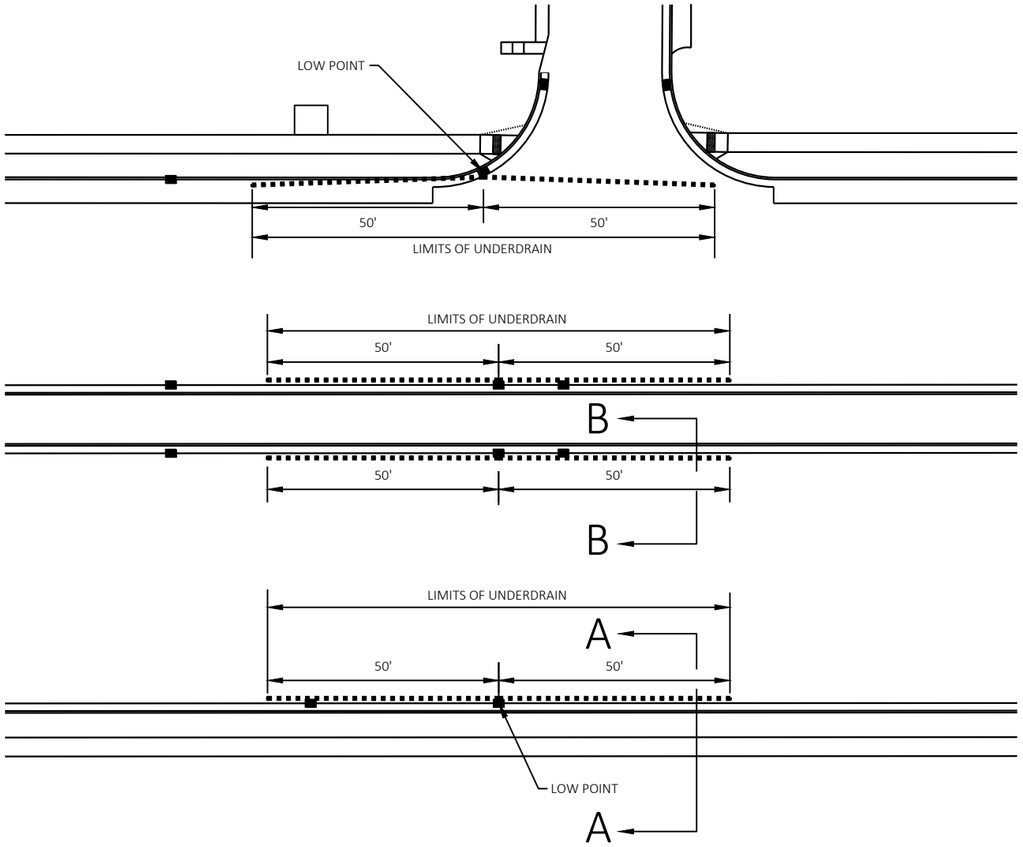


TEMPORARY STOP SIGN



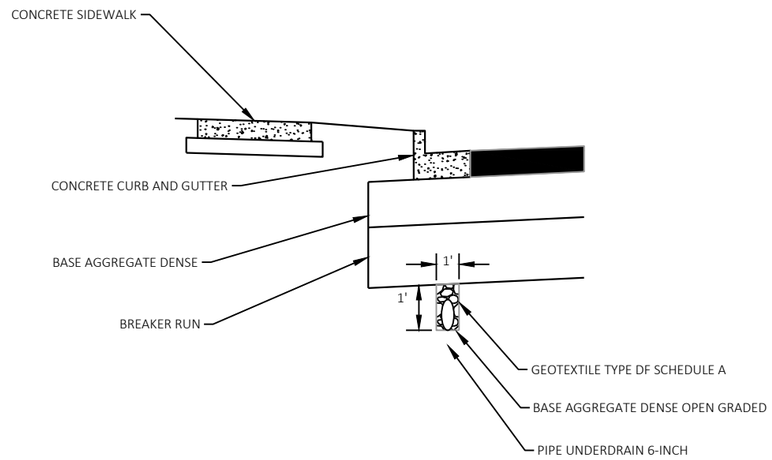
DETAIL OF CONNECTION TO STORM SEWER

NOTE
CONNECTION TO EXISTING STORM SEWER
SHALL BE PAID FOR AS CONCRETE COLLARS FOR PIPE.



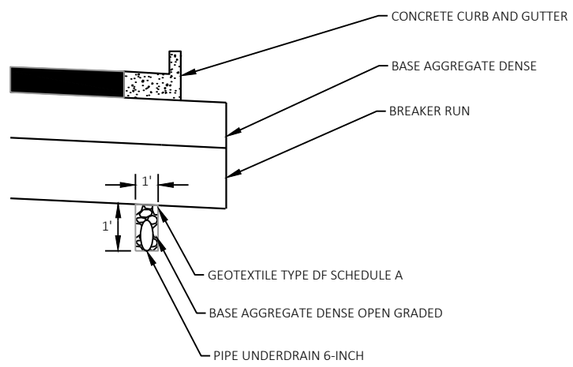
PIPE UNDERDRAIN UNDER CURB & GUTTER DETAILS

NOT TO SCALE



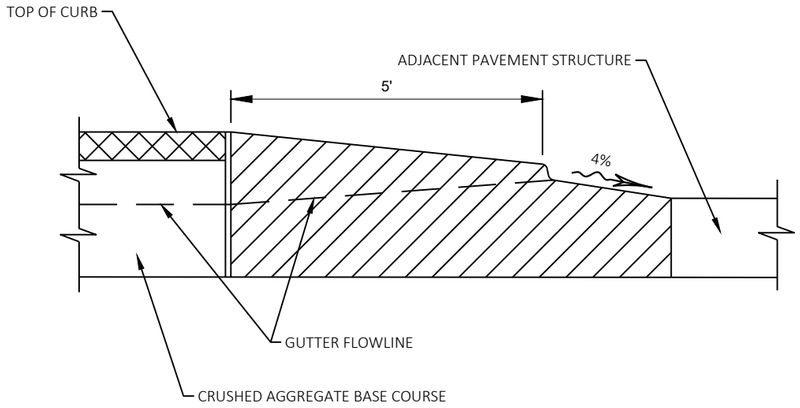
SECTION A - A

NOT TO SCALE



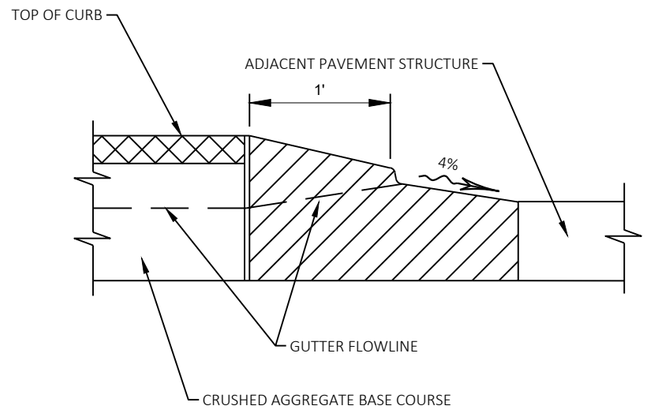
SECTION B - B

NOT TO SCALE

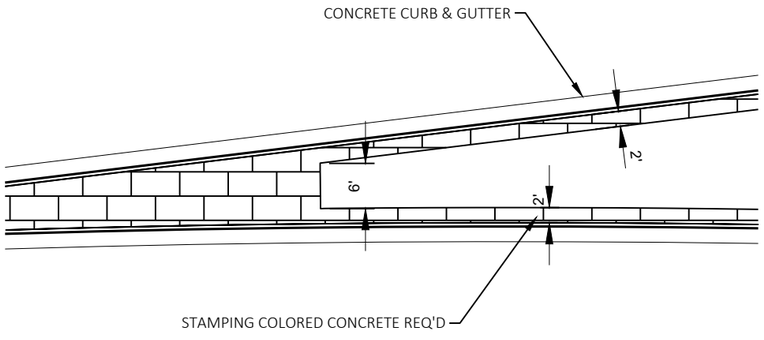


CONCRETE MEDIAN SLOPED NOSE TYPE 1

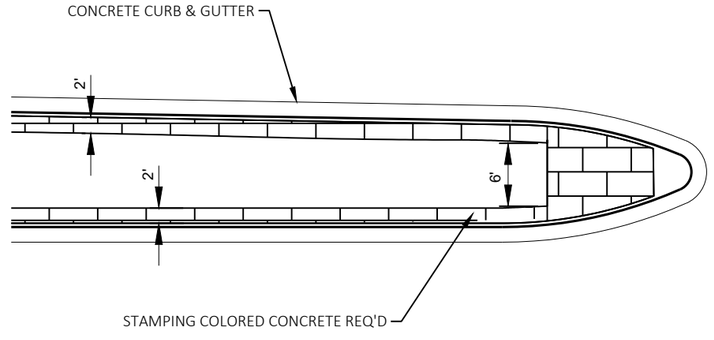
2



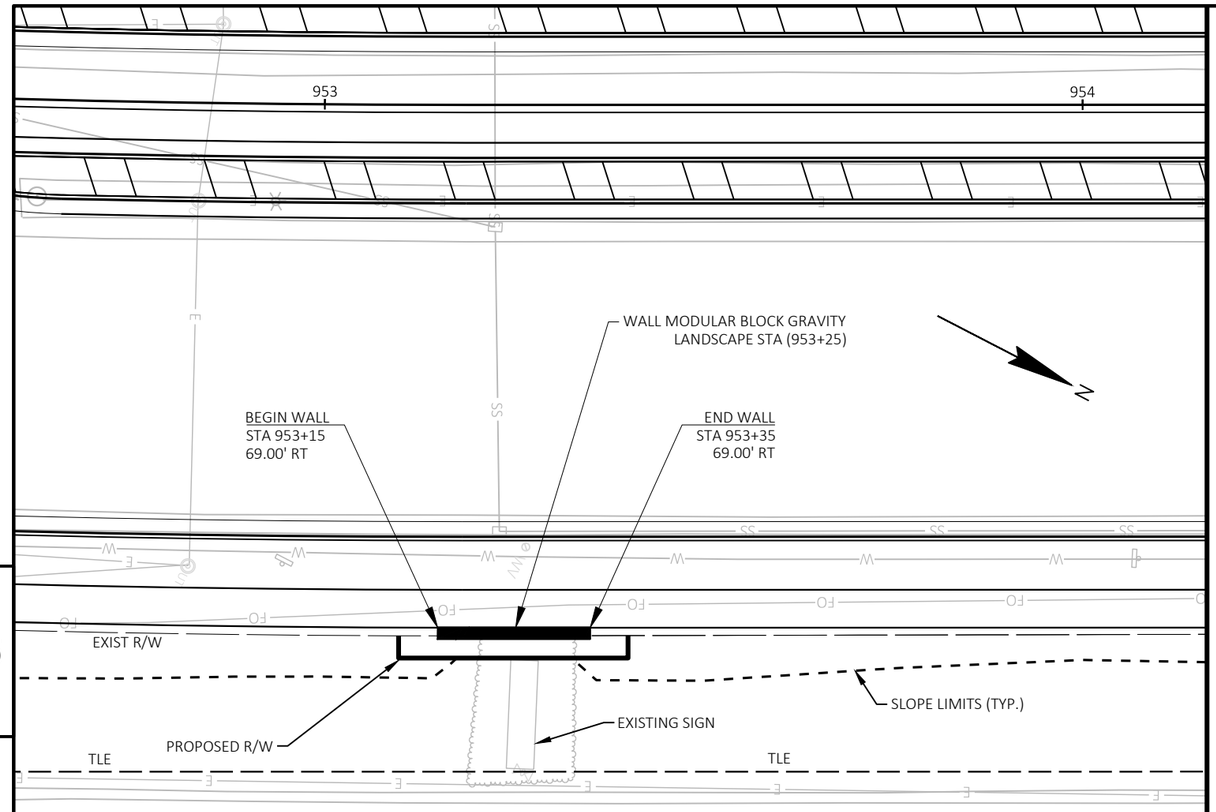
CONCRETE MEDIAN SLOPED NOSE TYPE 2



COLORED IMPRINTED CONCRETE AT MEDIAN TAPER

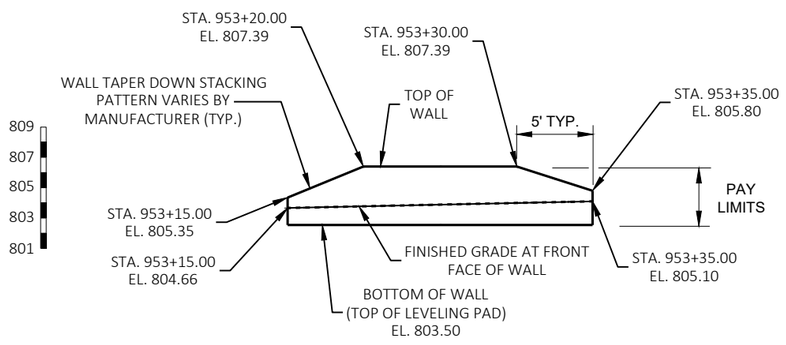


COLORED IMPRINTED CONCRETE AT MEDIAN NOSE



PLAN

(RETAINING WALL USH 45 NB)

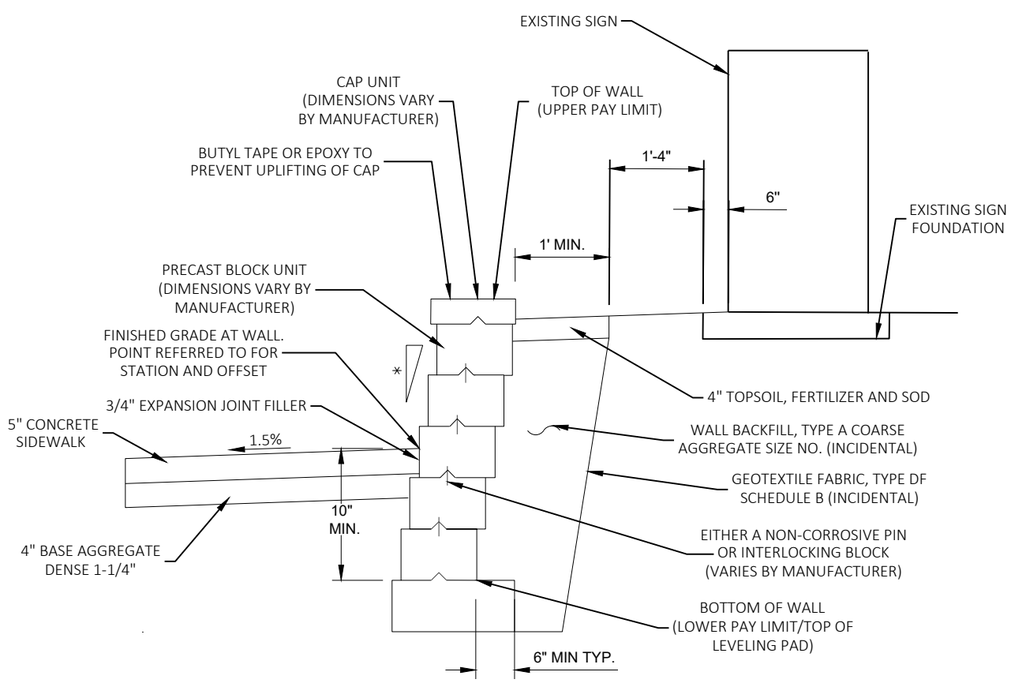


PROFILE

(LOOKING NORTHEAST AT WALL)

ESTIMATED SOIL PARAMETERS		
RETAINED SOIL	UNIT WEIGHT (PCF)	120
	FRICTION ANGLE (DEG)	30
	COHESION (PSF)	0
PRESUMPTIVE ALLOWABLE VERTICAL FOUNDATION LOAD BEARING PRESSURE (PSF)		1500

NOTE: MUD, ORGANIC SILT, ORGANIC CLAY, PEAT OR UNPREPARED FILL SHALL NOT BE ASSUMED TO HAVE A PRESUMPTIVE ALLOWABLE LOAD BEARING PRESSURE.



* SET BACK VARIES BY MANUFACTURER
MAXIMUM FRONT FACE SLOPE FROM
VERTICAL IS 1 HORIZ. TO 8 VERT.

TYPICAL SECTION

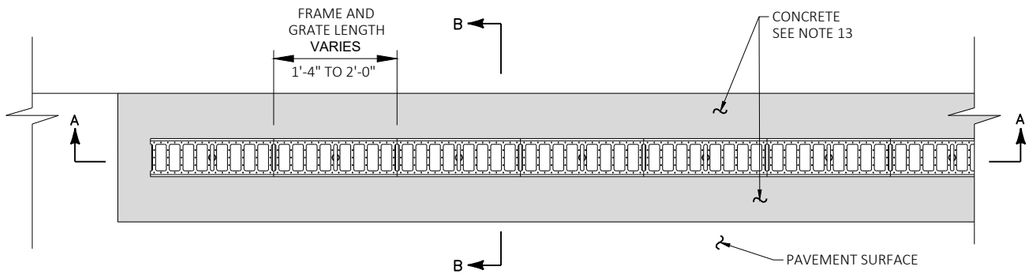
MODULAR CONCRETE UNIT
NOT TO SCALE

5

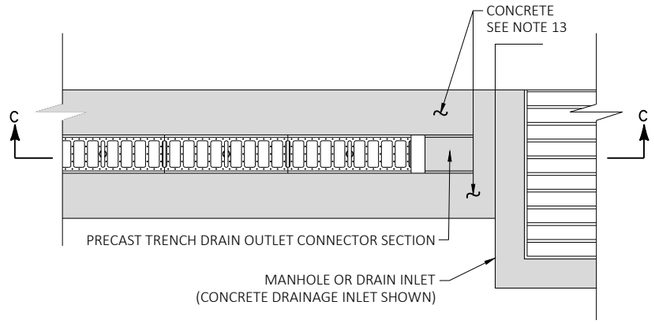
5

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 27	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021001-CD-2.DWG
LAYOUT NAME - 10a
PLOT DATE : 4/28/2023 9:36 PM
PLOT BY : THOMAS LEGEAR
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

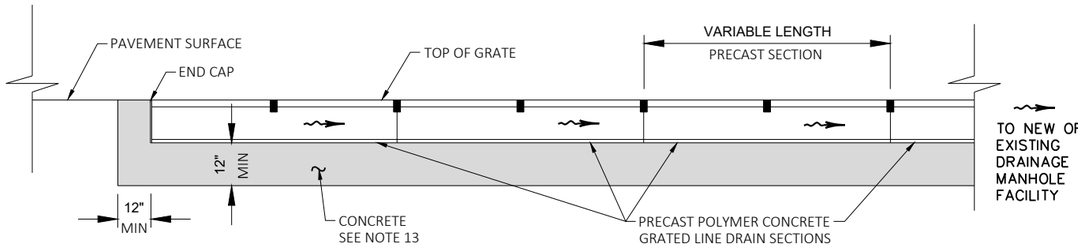


PLAN

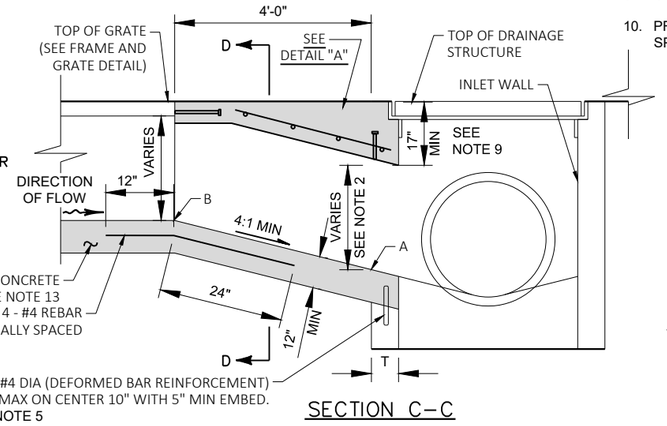


NOTES:

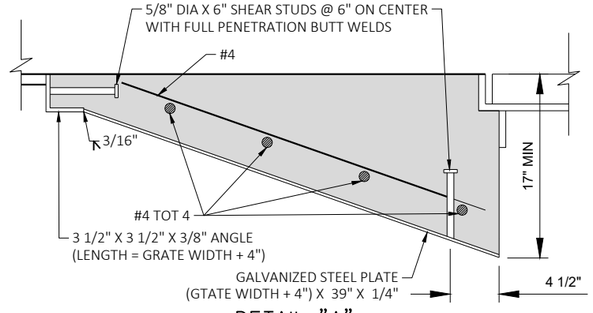
1. SEE QUANTITY SHEETS FOR DISCHARGE CAPACITY REQUIREMENTS.
2. DISCHARGE CAPACITY (CFS) AT POINT A MUST BE EQUIVALENT TO MAXIMUM CHANNEL DISCHARGE CAPACITY OF GRATED LINE DRAIN AT POINT B.
3. PRECAST POLYMER CONCRETE DRAIN SECTIONS ARE AVAILABLE IN NON-SLOPED UNIFORM DEPTH SECTIONS 4 7/16" TO 12" OR IN 0.6 PERCENT PRE-SLOPED SECTIONS WITH GRADUATED DEPTHS FROM 4 7/16" TO 12". SUBMIT SHOP DRAWINGS FOR PRECAST TRENCH DRAIN SECTIONS SHOWING ALL OUTLET CONNECTIONS AND GRADES.
4. NOMINAL DIMENSIONS SHOWN. ALLOWABLE TOLERANCE +/- 2%.
5. BOTTOM ROW OF DOWELS TO MATCH INLET CONNECTION SLOPE WITH 2" MIN CLEAR TO INSIDE OF BOX. PLACE OTHER DOWELS NORMAL TO INLET WALL WITH 1 1/2" MIN CLEAR TO INSIDE OF BOX. (WHEN T=6" USE 4 1/2" MIN EMBED)
6. GRATE PATTERNS MAY VARY FROM DETAIL SHOWN.
7. STEEL ANCHORING RODS NOT USED WHEN FRAME IS INTEGRAL WITH POLYMER CONCRETE GRATED LINE DRAIN SECTION.
8. 3/16" MAXIMUM GAP BETWEEN ADJACENT GRATINGS.
9. CONTRACTOR TO FIELD VERIFY MINIMUM DEPTH TO AVOID CONFLICT WITH INLET TOP.
10. PRECAST TRENCH DRAINS SHALL BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND DETAILS.
11. PROVIDE A 1/4"-1/2" EXPANSION JOINT WITH AN EMULSIFIED JOINT FILLER BETWEEN CONCRETE PAVEMENT AND TRENCH DRAIN ENCASEMENT.
12. CONTRACTOR TO FIELD VERIFY MINIMUM DEPTH TO AVOID CONFLICT WITH CASTINGS, RINGS OR STRUCTURE DECK.
13. CONCRETE GRADE SHALL MATCH ABUTTING MAINLINE CONCRETE PAVEMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
14. SIZE OF PIPE TO BE DETERMINED BY CONTRACTOR BASED ON HYDRAULIC CAPACITY. 6" MINIMUM



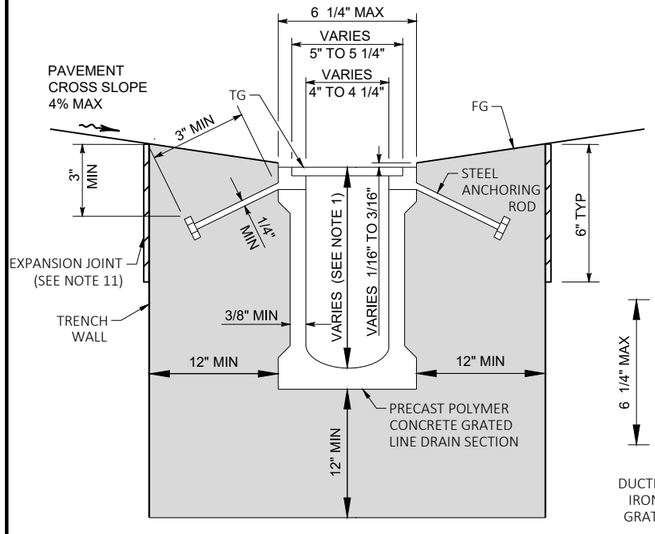
SECTION A–A
SEE NOTE 1



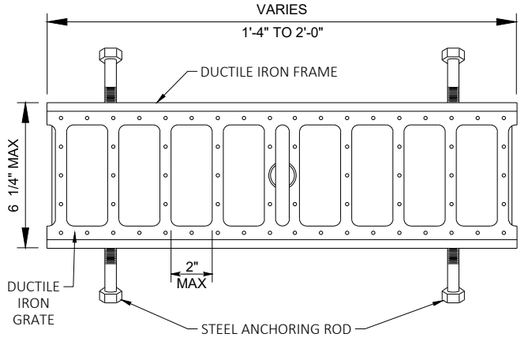
SECTION C–C
OPTION 1
CAST IN PLACE OUTLET CONNECTION



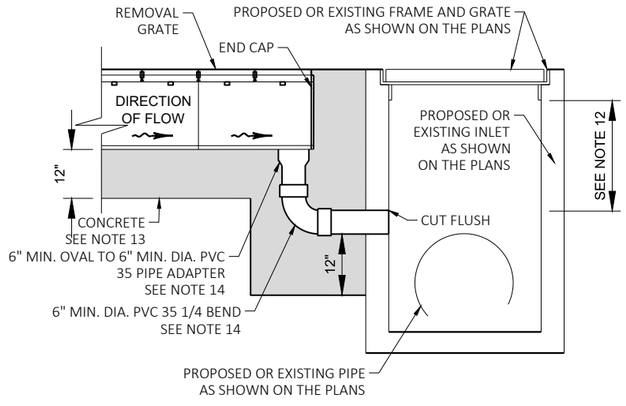
DETAIL "A"



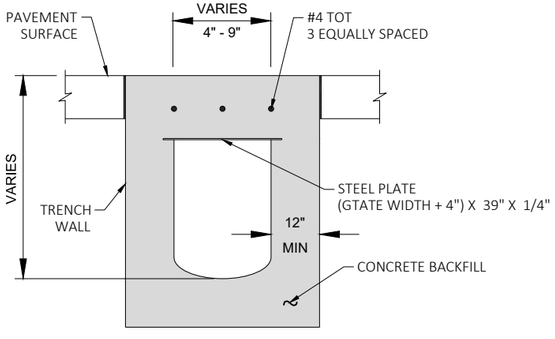
SECTION B–B
(PRECAST GRATED LINE DRAIN WITH NON-INTEGRAL FRAME)
SEE NOTE 3



FRAME AND GRATE DETAIL
SEE NOTES 4 AND 6



SECTION C–C
OPTION 2
VERTICAL OUTLET CONNECTION



SECTION D–D

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 28	E

EXCAVATING, PREPARING THE FOUNDATION AND SHIMMING ARE INCIDENTAL TO THE CATCH BASIN OR INLET BID ITEMS.

THE DEPARTMENT WILL PAY SEPARATELY FOR CONCRETE CURB & GUTTER.

PAVEMENT REMOVAL FOR THE MONOLITHIC SHIM IS INCIDENTAL TO THE REMOVING CURB & GUTTER BID ITEM.

MONOLITHIC SHIM CONCRETE, CONCRETE PLACEMENT AND FINISHING IS INCIDENTAL TO THE CONCRETE CURB & GUTTER BID ITEM.

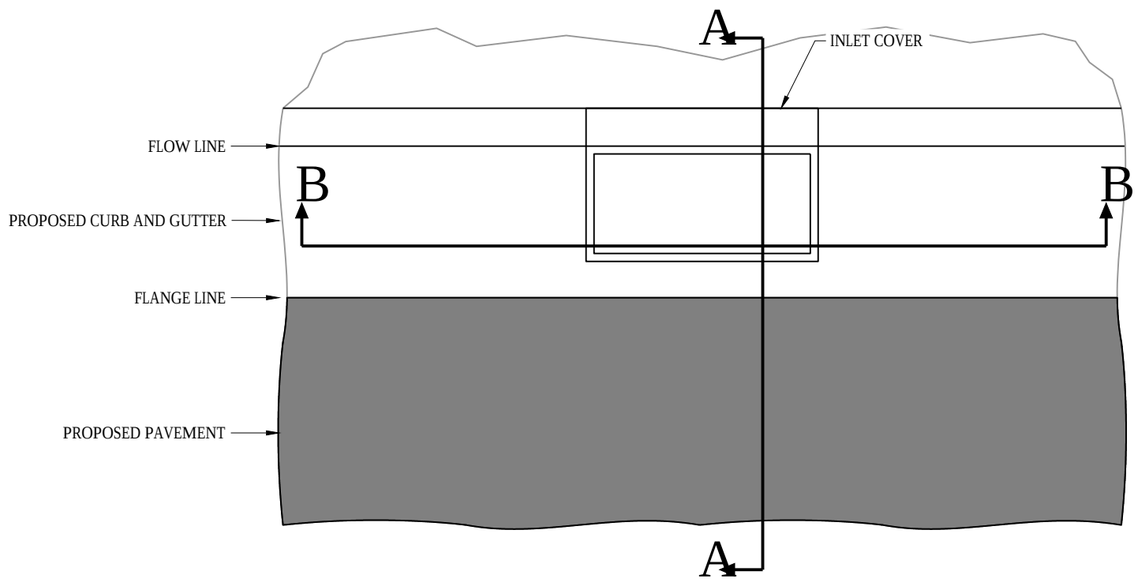
PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

PLACE CONCRETE AS SHOWN OR AS OTHERWISE DIRECTED TO FIT FIELD CONDITIONS.

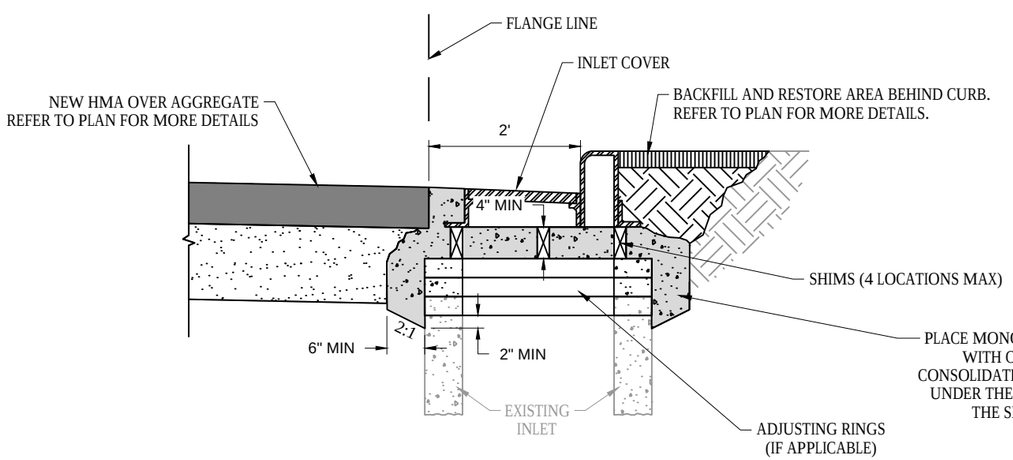
REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.



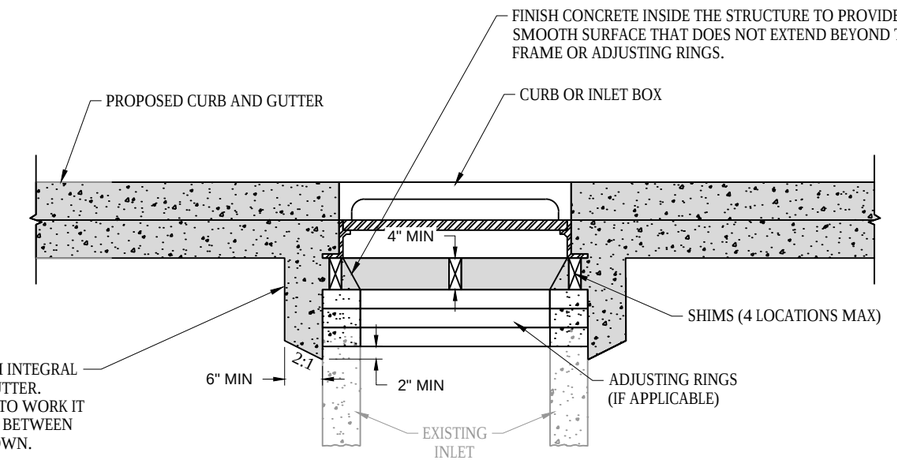
CONCRETE CURB AND GUTTER WITH MONOLITHIC SHIM



PLAN VIEW



SECTION A-A



SECTION B-B

CATCH BASINS & INLETS - MONOLITHIC SHIM

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 29	E

2

EXCAVATING, PREPARING THE FOUNDATION AND SHIMMING ARE INCIDENTAL TO THE MANHOLE BID ITEMS.

THE DEPARTMENT WILL PAY SEPARATELY FOR BASE PATCHING CONCRETE SHES..

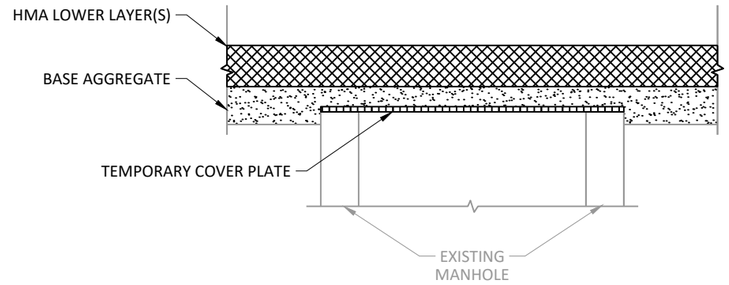
MONOLITHIC SHIM CONCRETE, CONCRETE PLACEMENT AND FINISHING IS INCIDENTAL TO THE CONCRETE OR HMA PAVEMENT BID ITEMS.

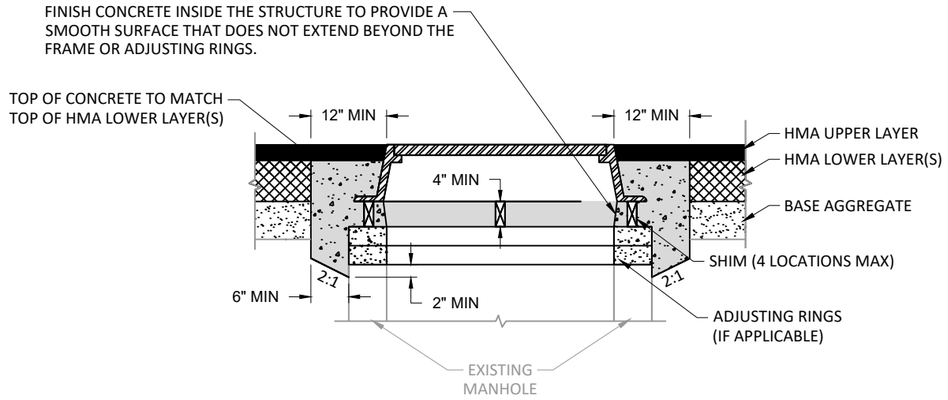
PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.



MONOLITHIC CONCRETE

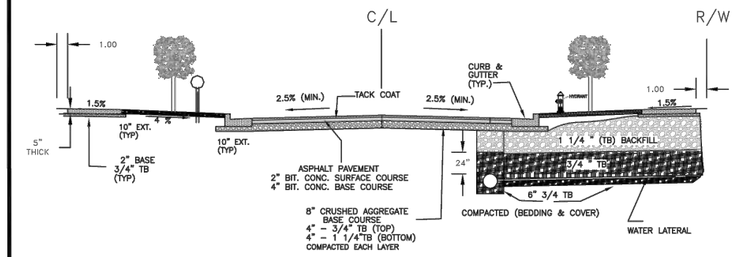




MANHOLE - MONOLITHIC SHIM

2

FIGURE 39



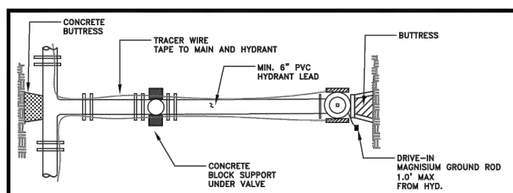
WATER MAIN BEDDING & BACKFILL MATERIAL LOCATED AT ROADWAYS
EXTEND BACKFILL MATERIAL AT THE LATERALS TO RIGHT OF WAY LIMIT BELOW THE PROPOSED SIDEWALK
OFF-ROADWAY AREA CAN BE BACKFILL WITH SPOIL MATERIAL AS APPROVED BY THE CITY ENGINEER

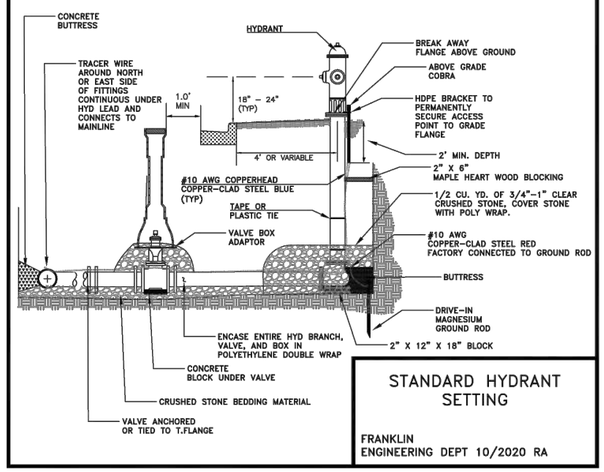
L:_GRAPHIC_FILES\Construction_Detail\C_60-RW_TYPSECT02-1.dwg

WATER MAIN & LATERAL
BEDDING AND BACKFILL

FIGURE 39

FRANKLIN
ENGINEERING DEPT 10/2020 RA



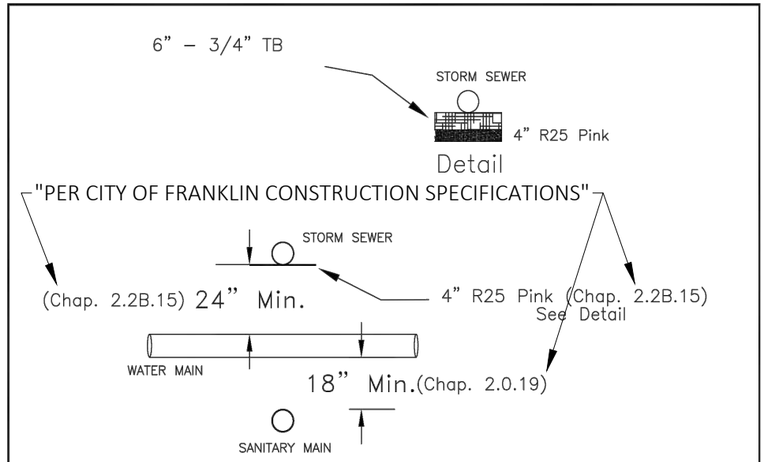


STANDARD HYDRANT SETTING

FRANKLIN
ENGINEERING DEPT 10/2020 RA

FIGURE 22

FIGURE 40



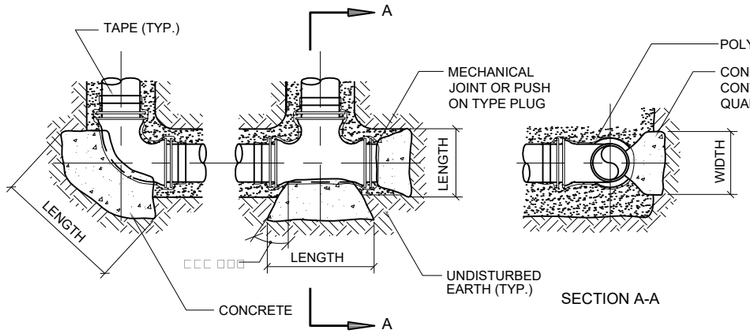
UTILITIES VERTICAL SEPARATION AND PLACEMENT OF 4" R25 PINK

L:_GRAPHIC_FILES\Construction_Detail\C_60-RW_TYPSECT02-1.dwg

UTILITIES
VERTICAL SEPARATION

FIGURE 40

FRANKLIN
ENGINEERING DEPT 5/2020 RA



BEND PLAN
(ANGLE VARIES)

TEE PLAN

THRUST BLOCKING NOTES:

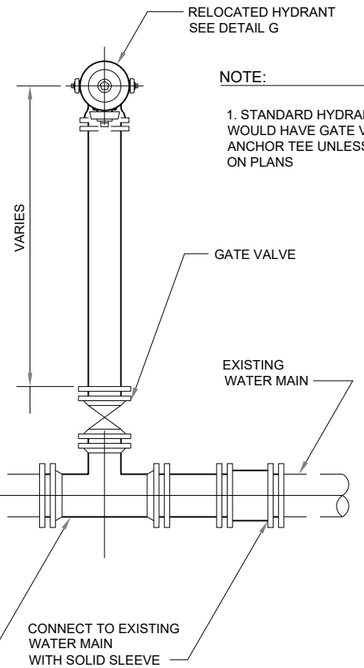
1. CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 2000 PSI & SHALL BE CAST AGAINST UNDISTURBED EARTH.
2. FITTINGS SHALL BE WRAPPED IN PLASTIC TO PREVENT CONCRETE BONDING TO FITTINGS.
3. FORM CONCRETE AS REQUIRED TO PREVENT CONTACT OR INTERFERENCE W/PIPE JOINTS.
4. THE LENGTH OF THE THRUST BLOCK SHALL BE APPROXIMATELY TWICE THE WIDTH. BEARING AREA = LENGTH X WIDTH.

THRUST BLOCKING

DETAIL A
NTS VAR



EXISTING HYDRANT ARRANGEMENT



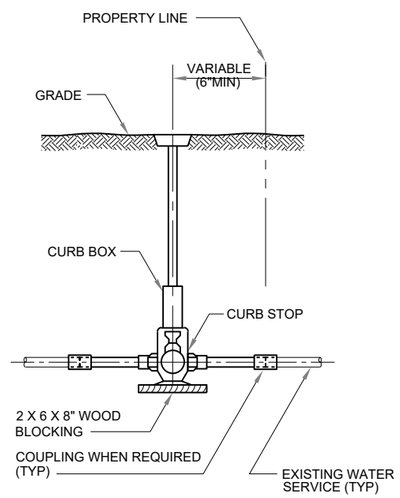
NOTE:

1. STANDARD HYDRANT ARRANGEMENT WOULD HAVE GATE VALVE ATTACHED TO ANCHOR TEE UNLESS OTHERWISE NOTED ON PLANS

PROPOSED HYDRANT ARRANGEMENT

RELOCATE HYDRANT

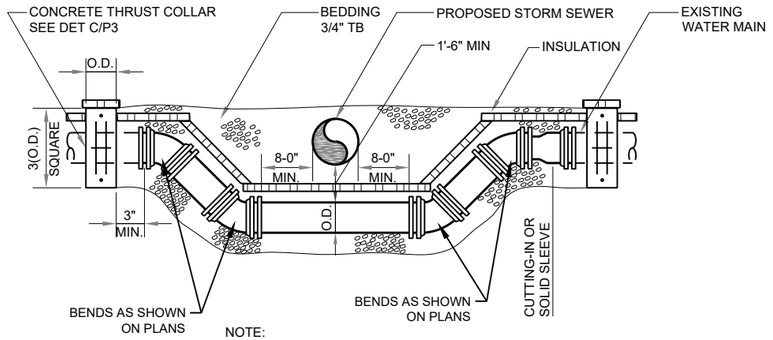
DETAIL H
NTS VAR



WATER SERVICE

DETAIL J
NTS VAR

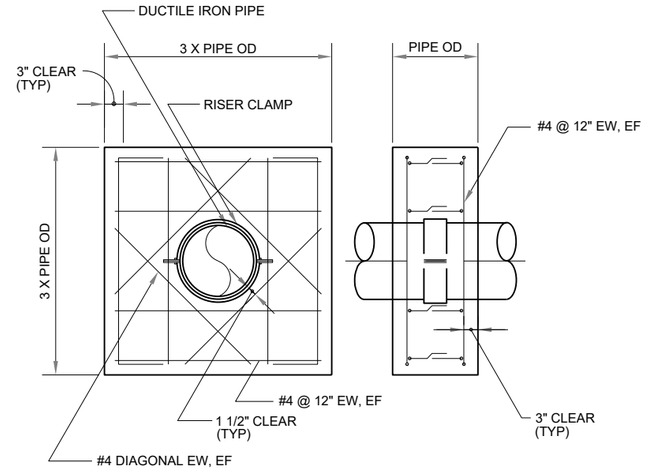
2



NOTE:
JOINT RESTRAINT SYSTEM SHALL BE PROVIDED FOR ALL PIPE JOINTS BETWEEN THRUST COLLARS

WATER MAIN LOWERING

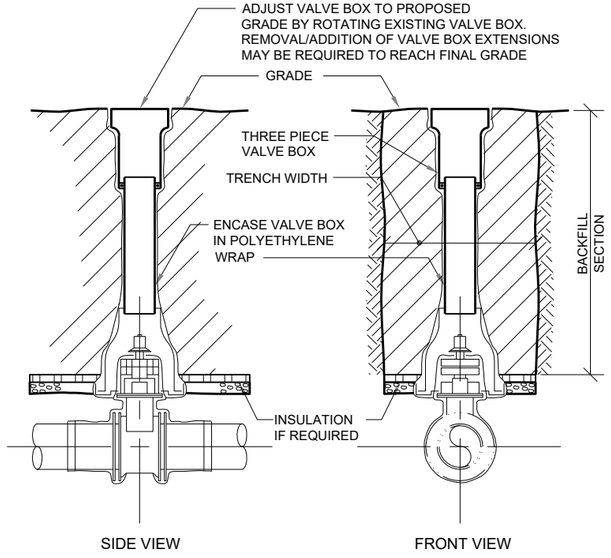
DETAIL B
NTS VAR



NOTE:
ALL REINFORCING SHALL TERMINATE WITH A STANDARD HOOK.

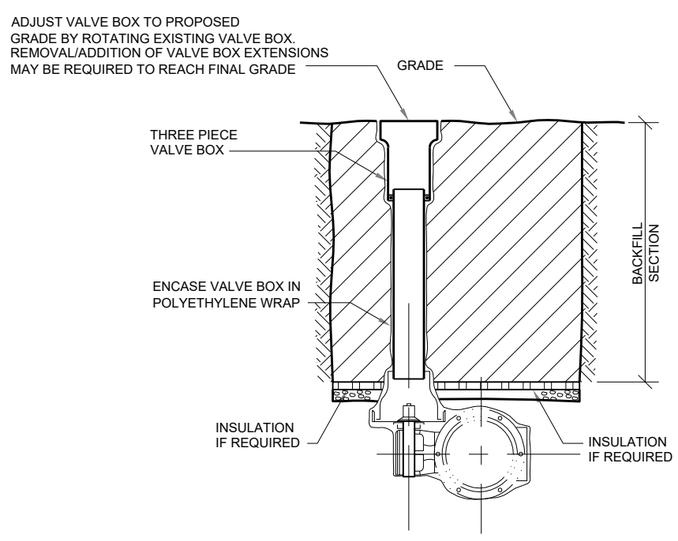
CONCRETE THRUST COLLAR

DETAIL C
NTS VAR



GATE VALVE & BOX SETTING

DETAIL E
NTS VAR

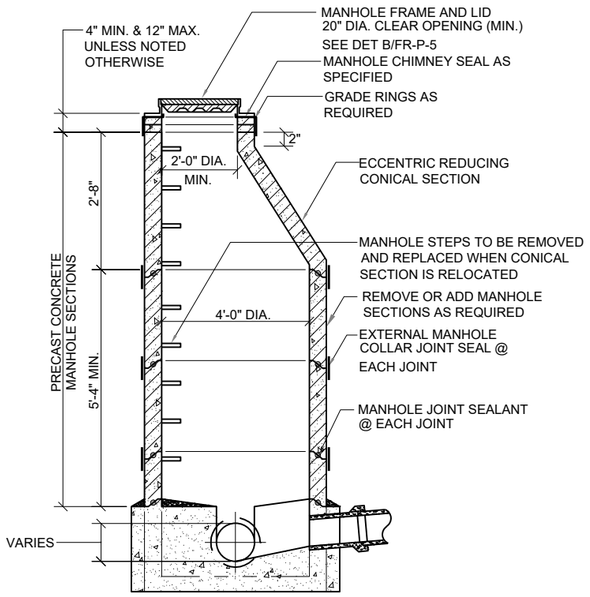


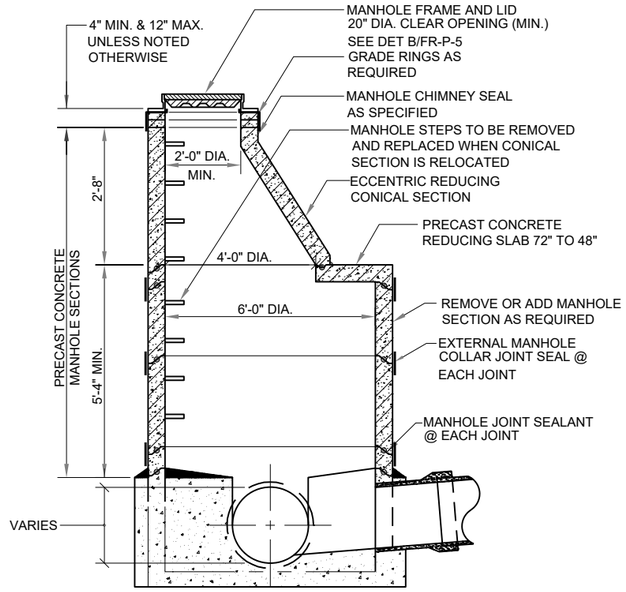
BUTTERFLY VALVE & BOX SETTING

DETAIL F
NTS VAR

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL WATER MAIN	SHEET 33	E

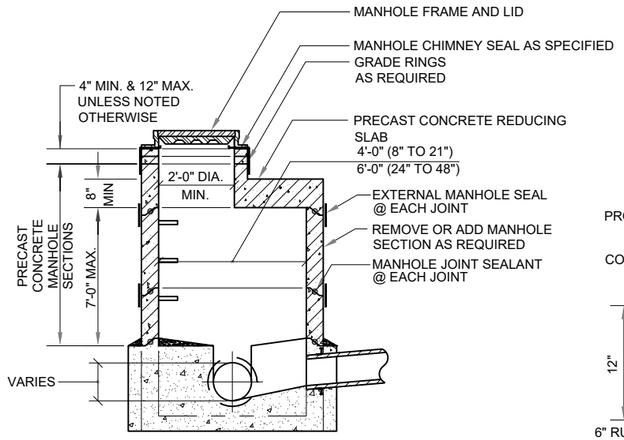
2

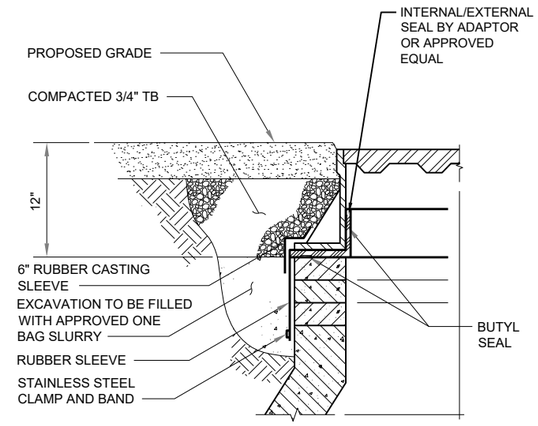




ROTATE CONICAL SECTION/RAISE/LOWER MANHOLE

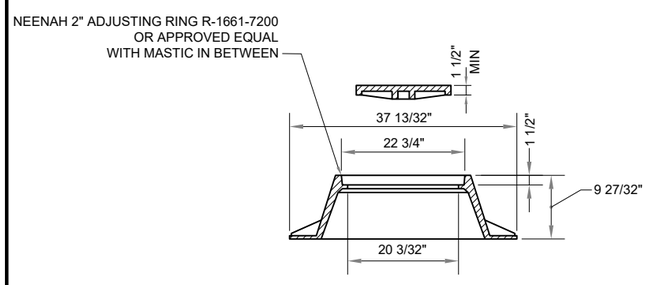
DETAIL A VAR
NTS





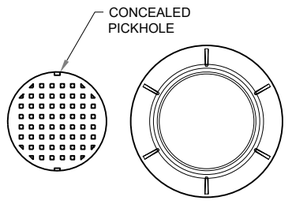
ADJUST MANHOLE CASTING

DETAIL B VAR
NTS



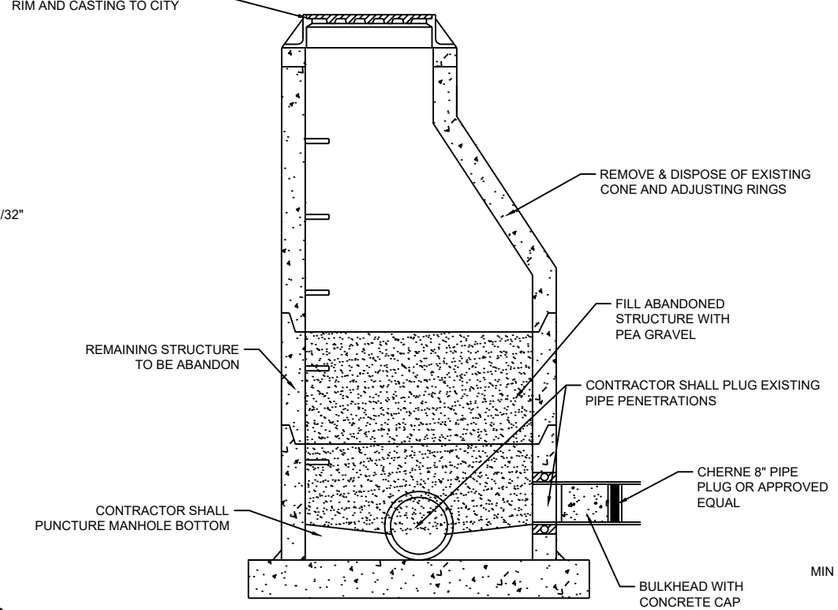
TYPE 1 FRAME & COVER

NEENAH R-1661-2001 NON-MODERNIZED OR EQUAL



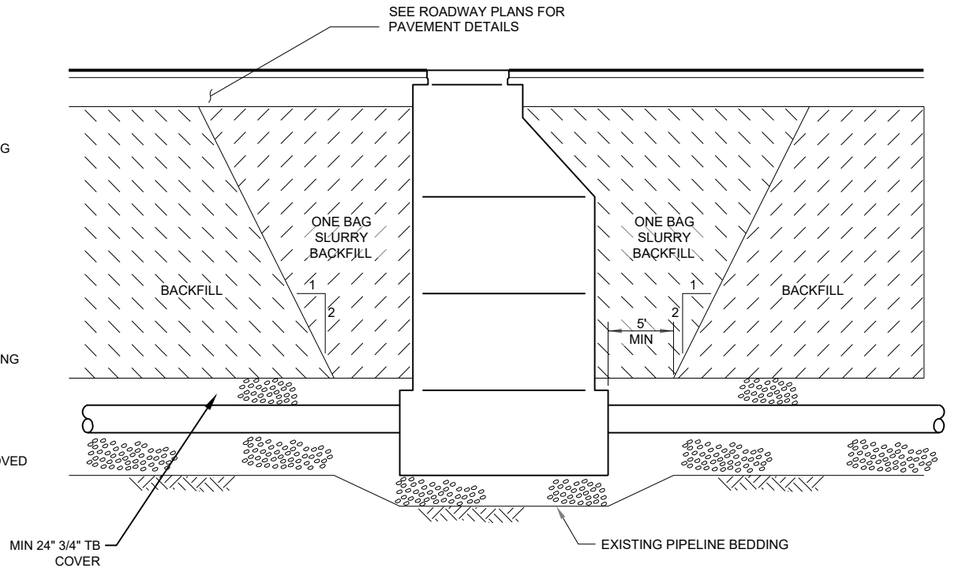
MANHOLE CASTING FRAMES AND COVERS

DETAIL C VAR
NTS



MANHOLE REMOVAL

DETAIL D VAR
NTS

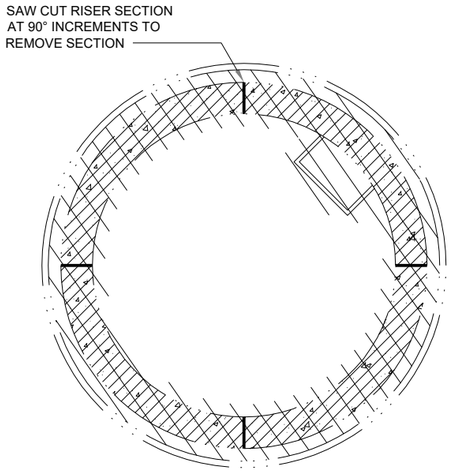


MANHOLE BACKFILL

DETAIL E VAR
NTS

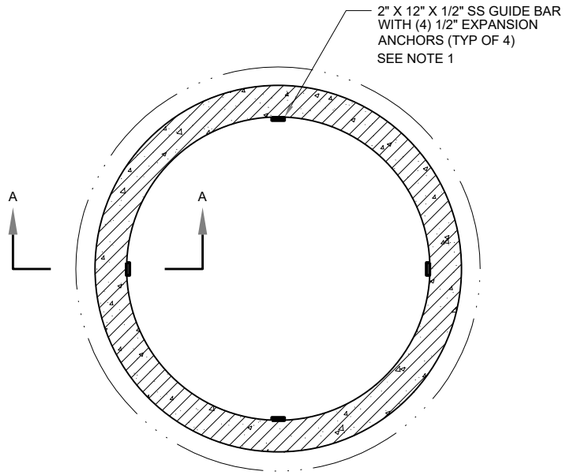
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL SANITARY SEWER	SHEET 34	E

2



MANHOLE RISER SECTION REMOVAL

DETAIL E
NTS VAR

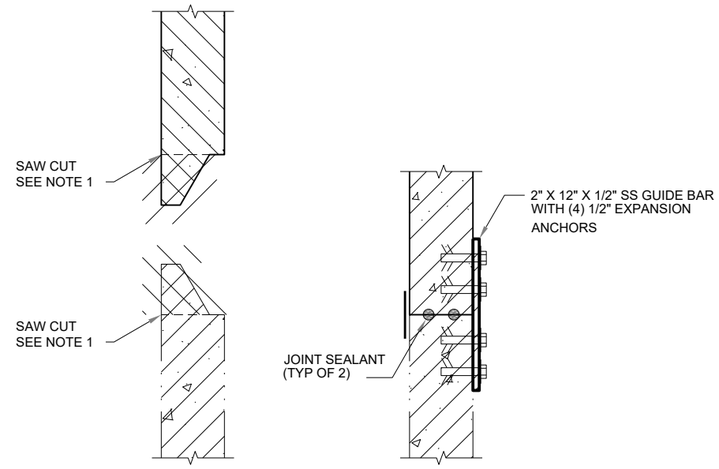


NOTES:

1. IF EXISTING MANHOLE JOINT CONFIGURATION IS NOT COMPATABLE WITH THE NEW JOINT CONFIGURATION THE BELL OF THE JOINTS SHALL BE REMOVED AS SHOWN IN SECTION A-A. ASSEMBLE JOINT USING (4) 2" X 1/2" SS GUIDE BARS AT 90° INCREMENTS. THE GUIDE BARS SHALL BE SECURED TO THE MANHOLE USING (4) 1/2" STAINLESS STEEL EXPANSION ANCHORS PER GUIDE BAR.

INCOMPATABLE MANHOLE JOINT SECTION

DETAIL F
NTS VAR



SECTION A-A
NTS

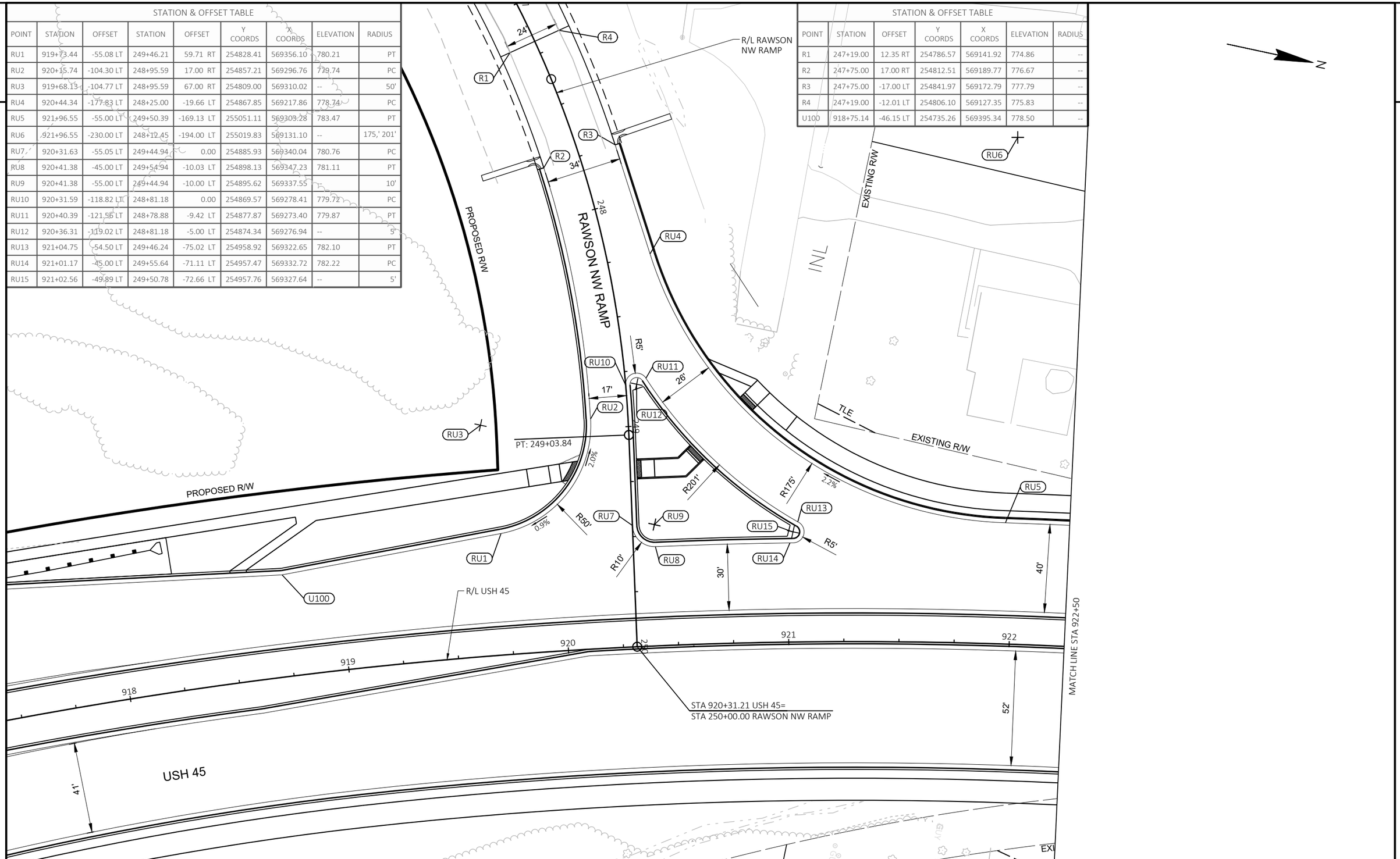
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL SANITARY SEWER	SHEET 35	E

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
RU1	919+73.44	-55.08 LT	249+46.21	59.71 RT	254828.41	569356.10	780.21	PT
RU2	920+15.74	-104.30 LT	248+95.59	17.00 RT	254857.21	569296.76	779.74	PC
RU3	919+68.13	-104.77 LT	248+95.59	67.00 RT	254809.00	569310.02	--	50'
RU4	920+44.34	-177.83 LT	248+25.00	-19.66 LT	254867.85	569217.86	778.74	PC
RU5	921+96.55	-55.00 LT	249+50.39	-169.13 LT	255051.11	569303.28	783.47	PT
RU6	921+96.55	-230.00 LT	248+12.45	-194.00 LT	255019.83	569131.10	--	175,' 201'
RU7	920+31.63	-55.05 LT	249+44.94	0.00	254885.93	569340.04	780.76	PC
RU8	920+41.38	-45.00 LT	249+54.94	-10.03 LT	254898.13	569347.23	781.11	PT
RU9	920+41.38	-55.00 LT	249+44.94	-10.00 LT	254895.62	569337.55	--	10'
RU10	920+31.59	-118.82 LT	248+81.18	0.00	254869.57	569278.41	779.72	PC
RU11	920+40.39	-121.56 LT	248+78.88	-9.42 LT	254877.87	569273.40	779.87	PT
RU12	920+36.31	-119.02 LT	248+81.18	-5.00 LT	254874.34	569276.94	--	5'
RU13	921+04.75	-54.50 LT	249+46.24	-75.02 LT	254958.92	569322.65	782.10	PT
RU14	921+01.17	-45.00 LT	249+55.64	-71.11 LT	254957.47	569332.72	782.22	PC
RU15	921+02.56	-49.89 LT	249+50.78	-72.66 LT	254957.76	569327.64	--	5'

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
R1	247+19.00	12.35 RT	254786.57	569141.92	774.86	--
R2	247+75.00	17.00 RT	254812.51	569189.77	776.67	--
R3	247+75.00	-17.00 LT	254841.97	569172.79	777.79	--
R4	247+19.00	-12.01 LT	254806.10	569127.35	775.83	--
U100	918+75.14	-46.15 LT	254735.26	569395.34	778.50	--



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 36	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101
PLOT DATE : 5/1/2023 11:08 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
P1	301+03.59	14.53 RT	255204.65	569438.74	784.67	--
P2	301+35.00	10.89 RT	255210.21	569471.04	0.00	--
P3	301+35.00	-9.90 LT	255230.88	569468.86	0.00	--
P4	301+13.04	-11.07 LT	255230.50	569447.55	0.00	--
P5	301+02.69	-11.44 LT	255230.61	569437.54	0.00	--
U200	922+84.16	3.00 RT	255147.86	569346.52	785.20	PT
U201	923+07.47	-1.86 LT	255170.33	569338.64	0.00	PCC
U202	922+84.16	-57.00 LT	255139.63	569287.09	0.00	60'
U203	923+07.43	-10.13 LT	255169.24	569330.44	0.00	PCC
U204	922+84.16	-15.00 LT	255145.39	569328.69	784.58	PC
U205	922+83.53	44.99 RT	255153.02	569388.20	0.00	60'
U206	923+05.63	-5.88 LT	255167.99	569334.88	0.00	4.5'
U207	923+29.14	-55.00 LT	255185.69	569283.23	786.72	PC

STATION & OFFSET TABLE

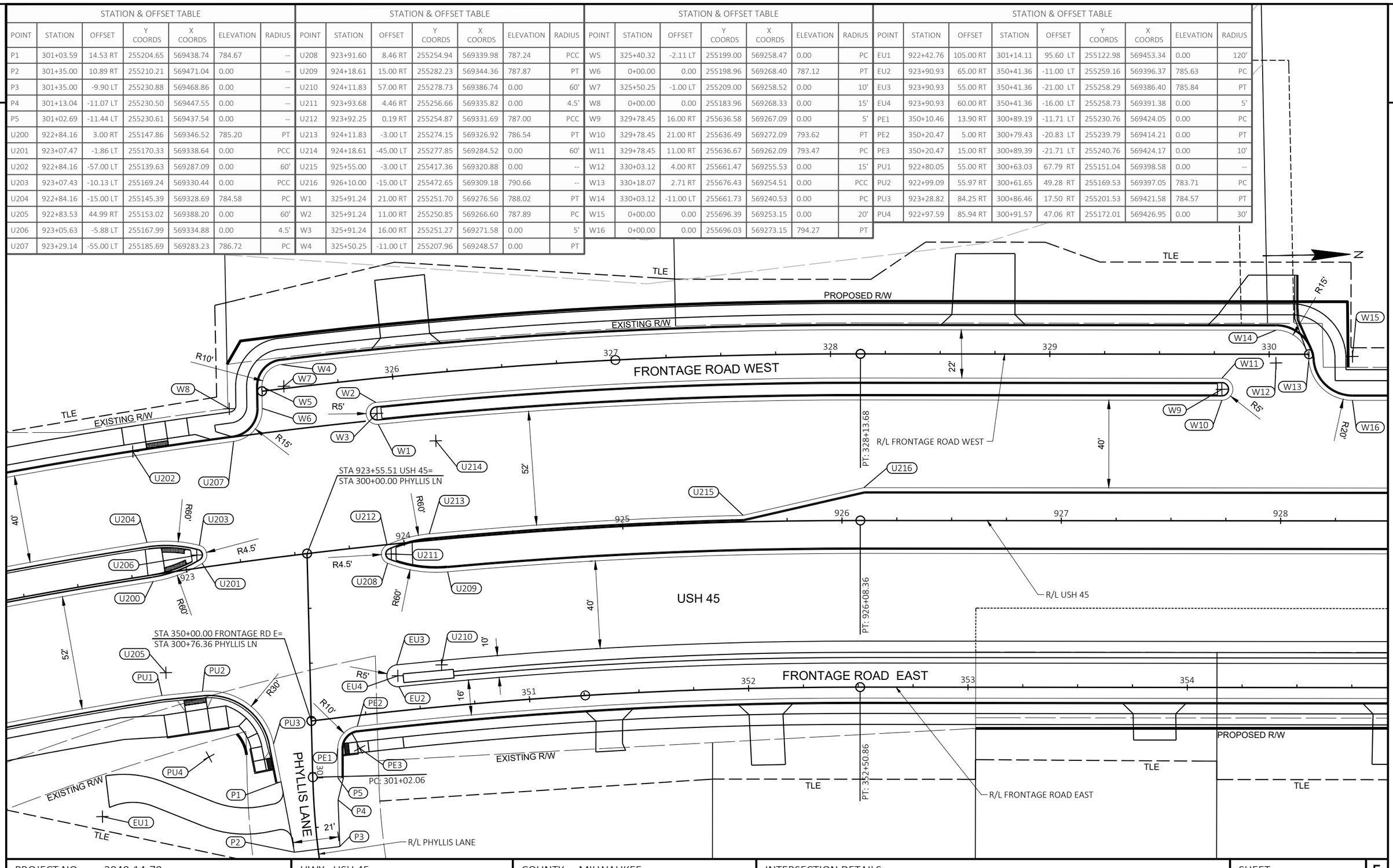
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U208	923+91.60	8.46 RT	255254.94	569339.98	787.24	PCC
U209	924+18.61	15.00 RT	255282.23	569344.36	787.87	PT
U210	924+11.83	57.00 RT	255278.73	569386.74	0.00	60'
U211	923+93.68	4.46 RT	255256.66	569335.82	0.00	4.5'
U212	923+92.25	0.19 RT	255254.87	569331.69	787.00	PCC
U213	924+11.83	-3.00 LT	255274.15	569326.92	786.54	PT
U214	924+18.61	-45.00 LT	255277.85	569284.52	0.00	60'
U215	925+55.00	-3.00 LT	255417.36	569320.88	0.00	--
U216	926+10.00	-15.00 LT	255472.65	569309.18	790.66	--
W1	325+91.24	21.00 RT	255251.70	569276.56	788.02	PT
W2	325+91.24	11.00 RT	255250.85	569266.60	787.89	PC
W3	325+91.24	16.00 RT	255251.27	569271.58	0.00	5'
W4	325+50.25	-11.00 LT	255207.96	569248.57	0.00	PT

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
W5	325+40.32	-2.11 LT	255199.00	569258.47	0.00	PC
W6	0+00.00	0.00	255198.96	569268.40	787.12	PT
W7	325+50.25	-1.00 LT	255209.00	569258.52	0.00	10'
W8	0+00.00	0.00	255183.96	569268.33	0.00	15'
W9	329+78.45	16.00 RT	255636.58	569267.09	0.00	5'
W10	329+78.45	21.00 RT	255636.49	569272.09	793.62	PT
W11	329+78.45	11.00 RT	255636.67	569262.09	793.47	PC
W12	330+03.12	4.00 RT	255661.47	569255.53	0.00	15'
W13	330+18.07	2.71 RT	255676.43	569254.51	0.00	PCC
W14	330+03.12	-11.00 LT	255661.73	569240.53	0.00	PC
W15	0+00.00	0.00	255696.39	569253.15	0.00	20'
W16	0+00.00	0.00	255696.03	569273.15	794.27	PT

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
EU1	922+42.76	105.00 RT	301+14.11	95.60 LT	255122.98	569453.34	0.00	120'
EU2	923+90.93	65.00 RT	350+41.36	-11.00 LT	255259.16	569396.37	785.63	PC
EU3	923+90.93	55.00 RT	350+41.36	-21.00 LT	255258.29	569386.40	785.84	PT
EU4	923+90.93	60.00 RT	350+41.36	-16.00 LT	255258.73	569391.38	0.00	5'
PE1	350+10.46	13.90 RT	300+89.19	-11.71 LT	255230.76	569424.05	0.00	PC
PE2	350+20.47	5.00 RT	300+79.43	-20.83 LT	255239.79	569414.21	0.00	PT
PE3	350+20.47	15.00 RT	300+89.39	-21.71 LT	255240.76	569424.17	0.00	10'
PU1	922+80.05	55.00 RT	300+63.03	67.79 RT	255151.04	569398.58	0.00	--
PU2	922+99.09	55.97 RT	300+61.65	49.28 RT	255169.53	569397.05	783.71	PC
PU3	923+28.82	84.25 RT	300+86.46	17.50 RT	255201.53	569421.58	784.57	PT
PU4	922+97.59	85.94 RT	300+91.57	47.06 RT	255172.01	569426.95	0.00	30'



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 37	E

2

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
D1	401+03.45	11.67 RT	256231.82	569441.44	802.26	--
D2	401+14.23	10.90 RT	256232.68	569452.21	0.00	--
D3	401+14.23	-10.26 LT	256253.84	569452.01	0.00	--
D4	401+04.41	-11.00 LT	256254.49	569442.18	802.29	--
U300	930+95.00	3.00 RT	255957.25	569335.81	799.99	--
U301	933+20.24	3.00 RT	256182.46	569339.81	801.51	PT
U302	933+44.55	-2.14 LT	256206.85	569335.10	0.00	PCC
U303	933+20.24	-57.00 LT	256183.53	569279.82	0.00	60'
U304	933+44.45	-10.41 LT	256206.90	569326.83	0.00	PCC
U305	933+21.45	-15.00 LT	256183.98	569321.84	800.35	PC
U306	933+21.45	45.00 RT	256182.92	569381.83	0.00	60'
U307	933+42.72	-6.26 LT	256205.10	569330.96	0.00	4.5'

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U308	934+18.43	9.99 RT	256280.51	569348.55	802.11	PCC
U309	934+41.82	15.00 RT	256303.80	569353.98	802.57	PT
U310	934+42.43	-45.00 LT	256305.49	569294.00	0.00	60'
U311	934+41.82	-3.00 LT	256304.12	569335.98	801.44	PT
U312	934+18.48	1.72 RT	256280.71	569340.29	801.90	PCC
U313	934+41.82	57.00 RT	256303.05	569395.97	0.00	60'
U314	934+20.23	5.87 RT	256282.38	569344.46	0.00	4.5'
U315	935+54.96	-3.00 LT	256417.24	569337.99	802.69	--
U316	936+10.00	-15.00 LT	256472.49	569326.97	803.54	--

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
DU1	933+93.59	85.82 RT	400+86.15	-11.00 LT	256254.32	569423.92	802.04	PC
DU2	934+23.57	55.00 RT	400+56.16	-41.82 LT	256284.85	569393.65	802.13	PT
DU3	934+23.57	85.00 RT	400+86.15	-41.00 LT	256284.32	569423.64	0.00	30'
ED1	359+97.98	5.00 RT	400+80.29	26.97 RT	256216.30	569418.43	802.09	PC
ED2	360+12.89	18.38 RT	400+94.08	12.43 RT	256230.97	569432.07	802.12	PT
ED3	359+97.98	20.00 RT	400+95.29	27.38 RT	256216.03	569433.43	0.00	15'
ED4	359+84.67	-11.00 LT	400+63.94	39.83 RT	256203.28	569402.19	801.71	PT
ED5	359+84.67	-16.00 LT	400+58.94	39.70 RT	256203.37	569397.20	0.00	5'
ED6	359+84.67	-21.00 LT	400+53.94	39.56 RT	256203.46	569392.20	801.58	PC

N

TLE

EXISTING R/W

TLE

EXISTING R/W

USH 45

R/L USH 45

STA 933+80.24 USH 45=
STA 400+00.00 HERDA PL

STA 360+24.82 FRONTAGE RD E=
STA 400+76.03 HERDA PL

R/L FRONTAGE ROAD EAST

R/L HERDA PLACE

HERDA PL

PROPOSED R/W

PROPOSED R/W

EXISTING R/W

TLE

TLE

U300 U301 U302 U303 U304 U305 U306 U307 U308 U309 U310 U311 U312 U313 U314 U315 U316

ED1 ED2 ED3 ED4 ED5 ED6

DU1 DU2 DU3

D1 D2 D3 D4

931 932 933 934 935 936

357 358 359 360

40' 52' 40' 52' 40' 10' 16' 40' 40'

R60' R60' R60' R60' R60' R4.5' R4.5' R5' R15' R30'

0.5% 0.2%

21'

401

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 38	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021103

PLOT DATE : 5/1/2023 11:10 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U400	937+90.00	15.00 RT	256651.93	569360.17	804.92	--
U401	938+45.00	3.00 RT	256707.13	569349.15	805.05	--
U402	939+54.35	3.00 RT	256816.47	569351.10	805.45	PC
U403	939+77.68	-1.72 LT	256839.88	569346.79	0.00	PCC
U404	939+54.35	-57.00 LT	256817.53	569291.11	0.00	60'
U405	939+77.73	-9.99 LT	256840.08	569338.52	0.00	PCC
U406	939+54.35	-15.00 LT	256816.79	569333.10	805.65	PC
U407	939+53.73	45.00 RT	256815.10	569393.08	0.00	60'
U408	939+75.93	-5.87 LT	256838.20	569342.62	0.00	4.5'
U409	940+90.07	57.00 RT	256951.21	569407.51	0.00	60'
U410	940+90.69	-45.00 LT	256953.64	569305.54	0.00	60'
U411	940+90.07	15.00 RT	256951.95	569365.51	804.82	PT
U412	940+90.07	-3.00 LT	256952.28	569347.52	804.74	PT
U413	940+66.69	9.99 RT	256928.66	569360.09	0.00	PCC

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U414	940+66.74	1.72 RT	256928.86	569351.82	0.00	PCC
U415	940+68.49	5.87 RT	256930.54	569356.00	0.00	4.5'
U416	941+70.00	-3.00 LT	257032.19	569348.94	804.20	--
U417	942+25.00	-15.00 LT	257087.13	569337.54	803.63	--
U418	942+35.00	15.00 RT	257097.20	569367.51	802.91	--
Z1	449+06.06	-15.00 LT	256899.68	569255.29	0.00	--
Z2	448+33.63	15.00 RT	256869.22	569183.05	804.65	--
Z3	448+34.46	-15.00 LT	256899.23	569183.69	0.00	--
Z4	448+03.08	11.40 LT	256872.65	569151.99	0.00	--
Z5	448+03.08	-11.40 LT	256895.47	569152.58	0.00	--
Z6	451+92.51	16.00 RT	256868.60	569541.64	0.00	--
Z7	451+92.51	-16.00 LT	256900.60	569542.05	0.00	--

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
SU1	939+79.84	55.00 RT	450+54.99	45.99 RT	256841.03	569403.54	805.32	PC
SU2	939+79.84	85.00 RT	450+84.99	46.00 RT	256840.50	569433.54	0.00	30'
SU3	940+09.84	84.99 RT	450+84.99	16.00 RT	256870.49	569434.07	804.49	PT
SU4	940+41.84	85.01 RT	450+85.01	-16.00 LT	256902.49	569434.65	804.49	PC
SU5	940+71.84	85.00 RT	450+85.01	-46.00 LT	256932.48	569435.18	0.00	30'
SU6	940+71.84	55.00 RT	450+55.01	-46.01 LT	256933.01	569405.18	804.95	PT
ZU1	939+76.05	-55.00 LT	449+43.88	45.73 RT	256839.20	569293.50	805.24	PC
ZU2	940+06.04	-85.73 LT	449+13.89	15.00 RT	256869.73	569263.31	804.85	PT
ZU3	940+36.09	-84.27 LT	449+16.06	-15.00 LT	256899.75	569265.29	804.84	PC
ZU4	940+66.08	-55.00 LT	449+46.05	-44.27 LT	256929.21	569295.10	804.51	PT
ZU5	939+76.05	-85.00 LT	449+13.89	45.00 RT	256839.73	569263.50	0.00	30'
ZU6	940+66.08	-85.00 LT	449+16.06	-45.00 LT	256929.75	569265.10	0.00	30'

N

R/L CORTEZ ROAD

CORTEZ ROAD

30'

449

TLE

EXISTING R/W

ZU5 ZU2 ZU1 ZU6 ZU3 ZU4

R30' 0.8% R30' 0.7%

U404 U410

USH 45

R/L USH 45

40' 52' 40'

938 939 940 941 942

U406 U405 U408 U403 U402 U401 U400 U407 U414 U412 U415 U413 U411 U416 U417 U418

R60' R4.5'

STA 940+25.82 USH 45=
STA 450+00.00 CORTEZ CIR S

STA 940+23.12 USH 45=
STA 450+00.00 CORTEZ RD

PC: 941+83.21

MATCH LINE STA 943+00

SU1 SU2 SU3 SU4 SU5 SU6

R30' 1.8% R30' 1.0%

32'

451

CORTEZ CIRCLE (SOUTH)

R13'

R/L CORTEZ CIRCLE (SOUTH)

Z1 Z2 Z3 Z4 Z5 Z6 Z7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 39	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021104

PLOT DATE : 5/1/2023 11:11 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
A1	498+80.00	18.10 RT	257418.62	569207.49	0.00	--
A2	498+80.00	-12.14 LT	257448.35	569201.96	0.00	--
N1	501+20.00	16.00 RT	257438.64	569442.86	800.94	--
N2	501+14.99	-16.00 LT	257470.62	569437.77	801.05	--
N3	501+25.00	16.29 RT	257438.36	569447.86	800.79	--
N4	501+25.00	-17.00 LT	257471.65	569447.77	800.78	--
U500	943+95.00	-5.00 LT	257256.60	569341.19	800.46	--
U501	943+99.00	15.00 RT	257262.11	569360.83	800.82	PC
U502	943+99.00	7.00 RT	257261.50	569352.85	800.69	PT
U503	943+99.00	11.00 RT	257261.80	569356.84	0.00	4'
U504	945+21.97	-15.00 LT	257381.33	569318.35	0.00	PC
U505	945+21.97	-5.00 LT	257382.62	569328.27	0.00	PT
U506	945+21.97	-10.04 LT	257381.97	569323.28	0.00	5'

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U507	945+58.39	7.00 RT	257420.36	569335.15	0.00	PT
U508	945+58.39	15.00 RT	257421.52	569343.07	0.00	PC
U509	945+58.39	11.00 RT	257420.94	569339.11	0.00	4'
U510	946+36.68	1.84 RT	257496.93	569317.35	0.00	PCC
U511	946+36.72	10.11 RT	257498.44	569325.49	0.00	PCC
U512	946+38.47	5.97 RT	257499.43	569321.10	0.00	4.5'
U513	946+60.00	-3.00 LT	257518.95	569308.31	801.56	PT
U514	946+60.00	15.00 RT	257522.35	569325.99	800.78	PT
U515	947+50.00	15.00 RT	257610.95	569307.14	801.91	--
U516	948+14.00	-3.00 LT	257668.89	569274.23	803.20	--
U517	946+60.63	-45.00 LT	257511.63	569266.95	0.00	60'
U518	946+60.00	57.00 RT	257530.28	569367.23	0.00	60'

STATION & OFFSET TABLE

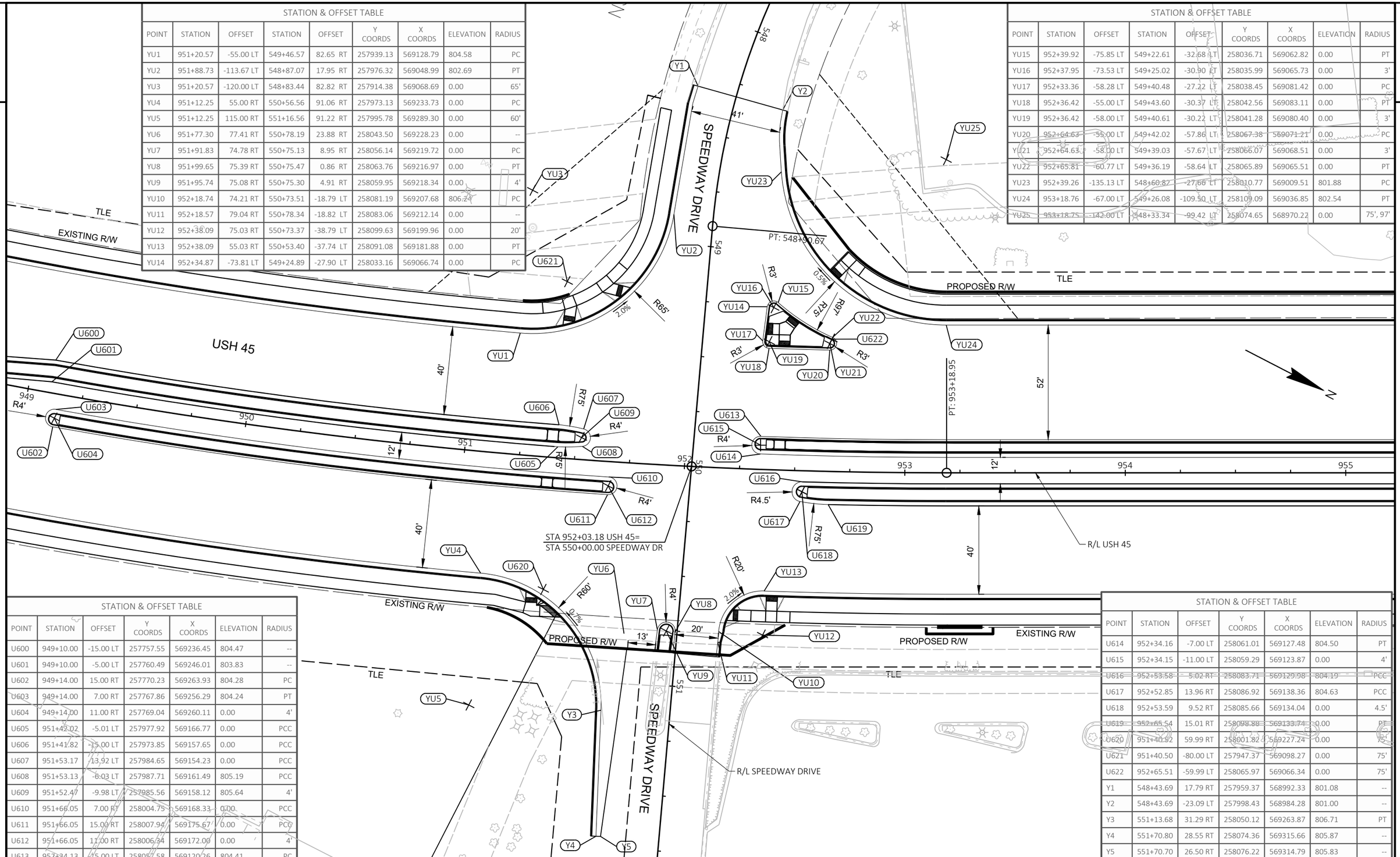
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
AU1	945+73.22	-78.47 LT	499+20.92	22.16 RT	257422.08	569248.05	799.75	PT
AU2	945+47.37	-55.00 LT	499+43.43	48.11 RT	257400.71	569275.35	800.39	PC
AU3	946+08.76	-79.71 LT	499+20.50	-12.17 LT	257455.79	569241.77	799.95	PC
AU4	946+34.66	-55.00 LT	499+45.48	-37.05 LT	257484.81	569261.78	800.41	PT
AU5	945+47.37	-80.00 LT	499+18.45	47.04 RT	257397.20	569250.59	0.00	25'
AU6	946+34.66	-80.00 LT	499+20.48	-37.17 LT	257480.36	569237.18	0.00	25'
NU1	945+64.50	89.17 RT	500+92.66	16.00 RT	257438.56	569415.52	0.00	PT
NU2	945+35.88	55.00 RT	500+62.93	49.98 RT	257404.50	569385.88	0.00	PC
NU3	945+97.08	80.04 RT	500+78.50	-16.00 LT	257470.53	569401.27	0.00	PC
NU4	946+25.64	55.00 RT	500+48.94	-40.86 LT	257495.30	569371.65	0.00	PT
NU5	945+35.88	85.00 RT	500+92.66	46.00 RT	257408.56	569415.60	0.00	30'
NU6	946+25.64	85.00 RT	500+78.50	-46.00 LT	257500.52	569401.19	0.00	30

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 40 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021105

PLOT DATE : 5/1/2023 11:12 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
YU1	951+20.57	-55.00 LT	549+46.57	82.65 RT	257939.13	569128.79	804.58	PC
YU2	951+88.73	-113.67 LT	548+87.07	17.95 RT	257976.32	569048.99	802.69	PT
YU3	951+20.57	-120.00 LT	548+83.44	82.82 RT	257914.38	569068.69	0.00	65'
YU4	951+12.25	55.00 RT	550+56.56	91.06 RT	257973.13	569233.73	0.00	PC
YU5	951+12.25	115.00 RT	551+16.56	91.22 RT	257995.78	569289.30	0.00	60'
YU6	951+77.30	77.41 RT	550+78.19	23.88 RT	258043.50	569228.23	0.00	--
YU7	951+91.83	74.78 RT	550+75.13	8.95 RT	258056.14	569219.72	0.00	PC
YU8	951+99.65	75.39 RT	550+75.47	0.86 RT	258063.76	569216.97	0.00	PT
YU9	951+95.74	75.08 RT	550+75.30	4.91 RT	258059.95	569218.34	0.00	4'
YU10	952+18.74	74.21 RT	550+73.51	-18.79 LT	258081.19	569207.68	806.24	PC
YU11	952+18.57	79.04 RT	550+78.34	-18.82 LT	258083.06	569212.14	0.00	--
YU12	952+38.09	75.03 RT	550+73.37	-38.79 LT	258099.63	569199.96	0.00	20'
YU13	952+38.09	55.03 RT	550+53.40	-37.74 LT	258091.08	569181.88	0.00	PT
YU14	952+34.87	-73.81 LT	549+24.89	-27.90 LT	258033.16	569066.74	0.00	PC

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
YU15	952+39.92	-75.85 LT	549+22.61	-32.68 LT	258036.71	569062.82	0.00	PT
YU16	952+37.95	-73.53 LT	549+25.02	-30.90 LT	258035.99	569065.73	0.00	3'
YU17	952+33.36	-58.28 LT	549+40.48	-27.22 LT	258038.45	569081.42	0.00	PC
YU18	952+36.42	-55.00 LT	549+43.60	-30.37 LT	258042.56	569083.11	0.00	PT
YU19	952+36.42	-58.00 LT	549+40.61	-30.22 LT	258041.28	569080.40	0.00	3'
YU20	952+64.63	-55.00 LT	549+42.02	-57.86 LT	258067.38	569071.21	0.00	PC
YU21	952+64.63	-58.00 LT	549+39.03	-57.67 LT	258066.07	569068.51	0.00	3'
YU22	952+65.81	-60.77 LT	549+36.19	-58.64 LT	258065.89	569065.51	0.00	PT
YU23	952+39.26	-135.13 LT	548+60.82	-27.66 LT	258010.77	569009.51	801.88	PC
YU24	953+18.76	-67.00 LT	549+26.08	-109.50 LT	258109.09	569036.85	802.54	PT
YU25	953+18.75	-142.00 LT	548+33.34	-99.42 LT	258074.65	568970.22	0.00	75', 97'

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U600	949+10.00	-15.00 LT	257757.55	569236.45	804.47	--
U601	949+10.00	-5.00 LT	257760.49	569246.01	803.83	--
U602	949+14.00	15.00 RT	257770.23	569263.93	804.28	PC
U603	949+14.00	7.00 RT	257767.86	569256.29	804.24	PT
U604	949+14.00	11.00 RT	257769.04	569260.11	0.00	4'
U605	951+42.02	-5.01 LT	257977.92	569166.77	0.00	PCC
U606	951+41.82	-15.00 LT	257973.85	569157.65	0.00	PCC
U607	951+53.17	-13.92 LT	257984.65	569154.23	0.00	PCC
U608	951+53.13	-6.03 LT	257987.71	569161.49	805.19	PCC
U609	951+52.47	-9.98 LT	257985.56	569158.12	805.64	4'
U610	951+66.05	7.00 RT	258004.75	569168.33	0.00	PCC
U611	951+66.05	15.00 RT	258007.94	569175.67	0.00	PCC
U612	951+66.05	11.00 RT	258006.34	569172.00	0.00	4'
U613	952+34.13	-15.00 LT	258057.58	569120.26	804.41	PC

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U614	952+34.16	-7.00 LT	258061.01	569127.48	804.50	PT
U615	952+34.15	-11.00 LT	258059.29	569123.87	0.00	4'
U616	952+53.58	5.02 RT	258083.71	569129.98	804.19	PCC
U617	952+52.85	13.96 RT	258086.92	569138.36	804.63	PCC
U618	952+53.59	9.52 RT	258085.66	569134.04	0.00	4.5'
U619	952+65.54	15.01 RT	258098.88	569133.74	0.00	PT
U620	951+40.52	59.99 RT	258001.82	569227.24	0.00	75'
U621	951+40.50	-80.00 LT	257947.37	569098.27	0.00	75'
U622	952+65.51	-59.99 LT	258065.97	569066.34	0.00	75'
Y1	548+43.69	17.79 RT	257959.37	568992.33	801.08	--
Y2	548+43.69	-23.09 LT	257998.43	568984.28	801.00	--
Y3	551+13.68	31.29 RT	258050.12	569263.87	806.71	PT
Y4	551+70.80	28.55 RT	258074.36	569315.66	805.87	--
Y5	551+70.70	26.50 RT	258076.22	569314.79	805.83	--

2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 41	E

2

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
G1	602+00.00	18.50 RT	259024.18	568961.56	785.44	--
G2	602+00.00	-17.50 LT	259059.74	568967.18	785.46	--
U700	960+74.00	-5.00 LT	258833.85	568802.30	0.00	--
U701	960+78.00	7.00 RT	258840.61	568812.99	0.00	PC
U702	960+78.00	15.00 RT	258842.53	568820.76	0.00	PT
U703	960+78.00	11.00 RT	258841.57	568816.87	0.00	4'
U704	962+32.88	-15.00 LT	258987.85	568759.44	784.50	--
U705	962+45.43	-13.94 LT	259000.48	568758.33	0.00	--
U706	962+44.69	-5.00 LT	259001.25	568767.26	0.00	--
U707	962+44.69	-9.50 LT	259000.49	568762.83	0.00	5'
U708	962+55.36	7.00 RT	259013.75	568777.33	0.00	PCC
U709	962+55.36	15.00 RT	259015.06	568785.22	0.00	PCC

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U710	962+55.36	11.00 RT	259014.41	568781.27	0.00	4'
U711	962+88.88	-84.38 LT	259033.11	568681.74	786.46	--
U712	963+20.02	-85.83 LT	259064.87	568675.70	786.56	PC
U713	962+59.95	-55.00 LT	259008.24	568715.40	0.00	--
U714	962+59.95	-85.00 LT	259003.39	568685.79	0.00	30'
U715	963+48.91	-55.00 LT	259098.39	568702.41	0.00	PT
U716	963+48.94	-85.00 LT	259094.72	568672.63	0.00	30'
U717	963+50.24	-60.00 LT	259099.11	568697.28	0.00	75'
U718	963+25.51	-15.00 LT	259079.97	568745.13	0.00	PCC
U719	963+25.51	-7.00 LT	259081.04	568753.05	0.00	PCC
U720	963+25.51	-11.00 LT	259078.03	568749.43	0.00	4'
U721	963+36.42	5.77 RT	259093.53	568764.28	0.00	PCC

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
GU1	962+32.43	55.00 RT	600+64.71	48.31 RT	258999.56	568828.45	783.82	PC
GU2	962+57.91	84.67 RT	600+89.25	18.50 RT	259028.89	568853.55	783.33	PT
GU3	963+22.91	55.00 RT	600+49.45	-38.67 LT	259086.80	568814.84	784.74	PT
GU4	962+97.36	76.03 RT	600+74.15	-17.50 LT	259065.17	568839.14	783.83	PC
GU5	962+32.43	80.00 RT	600+89.25	43.50 RT	259003.90	568853.07	0.00	25'
GU6	963+22.91	80.00 RT	600+74.15	-42.50 LT	259090.11	568839.61	0.00	25'

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U722	963+36.21	13.65 RT	259094.35	568772.13	0.00	PCC
U723	963+36.98	9.73 RT	259094.60	568768.14	0.00	4'
U724	963+47.49	5.00 RT	259104.39	568762.12	0.00	PT
U725	963+51.12	15.00 RT	259109.22	568771.60	0.00	PT
U726	964+85.11	7.50 RT	259241.24	568751.68	0.00	--
U727	964+81.00	-15.00 LT	259235.67	568729.49	786.77	PCC
U728	964+81.00	-7.00 LT	259236.20	568737.48	786.73	PCC
U729	964+81.00	-11.00 LT	259235.93	568733.49	0.00	4'
U730	963+47.34	80.00 RT	259113.55	568836.56	0.00	75'
U731	962+32.73	60.00 RT	259000.71	568833.33	0.00	75'

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 42	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021107

PLOT DATE : 5/1/2023 11:14 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
T1	651+15.00	15.52 RT	259435.13	568855.32	788.31	--
T2	651+15.00	-17.94 LT	259468.59	568854.97	788.26	--
U800	966+45.16	-15.00 LT	259400.79	568724.47	787.61	--
U801	966+45.16	20.00 RT	259400.60	568759.47	0.00	35'
U802	966+71.40	15.00 RT	259426.69	568754.76	0.00	PC
U803	966+78.33	8.30 RT	259433.73	568748.19	0.00	PCC
U804	966+73.63	10.00 RT	259429.00	568749.80	0.00	5'
U805	967+28.89	6.73 RT	259484.30	568747.52	0.00	PCC
U806	967+31.34	15.00 RT	259486.61	568755.83	787.61	PCC
U807	967+31.34	10.50 RT	259486.69	568751.33	0.00	5'
U808	967+61.64	-3.00 LT	259517.23	568738.37	786.89	PT
U809	967+61.64	57.00 RT	259516.16	568798.36	0.00	60'
U810	968+80.00	-55.00 LT	259636.50	568688.50	784.93	--

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
U811	968+80.00	55.00 RT	259634.53	568798.48	0.00	--
U812	968+93.91	14.98 RT	259649.16	568758.71	0.00	--
U813	969+58.93	-3.13 LT	259714.48	568741.77	783.88	--
U814	970+57.09	-14.71 LT	259812.84	568731.95	782.88	--
U815	970+62.61	-4.88 LT	259818.18	568741.87	782.68	--
U816	970+66.26	7.11 RT	259821.61	568753.93	782.66	--
U817	970+67.01	15.11 RT	259822.22	568761.94	782.61	--
U818	970+66.64	11.09 RT	259821.92	568757.92	782.66	4'
U819	971+50.00	-14.96 LT	259905.74	568733.36	781.48	--
U820	971+50.00	14.82 RT	259905.20	568763.13	-1.49	--
U821	971+50.00	-5.18 LT	259905.56	568743.14	-2.11	--
U822	971+50.00	6.82 RT	259905.35	568755.13	-1.74	--

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	RADIUS
TU1	966+59.82	55.00 RT	650+54.06	35.29 RT	259414.72	568794.59	0.00	PC
TU2	966+80.28	74.52 RT	650+74.11	15.73 RT	259434.49	568814.43	787.57	PT
TU3	966+59.82	75.00 RT	650+74.06	35.73 RT	259414.49	568814.59	0.00	20'
TU4	967+21.00	79.89 RT	650+80.62	-24.82 LT	259475.11	568820.52	787.33	PC
TU5	967+50.56	55.00 RT	650+56.58	-55.08 LT	259505.11	568796.17	786.89	PT
TU6	967+50.56	85.00 RT	650+86.57	-54.23 LT	259504.58	568826.16	0.00	30'

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 43	E

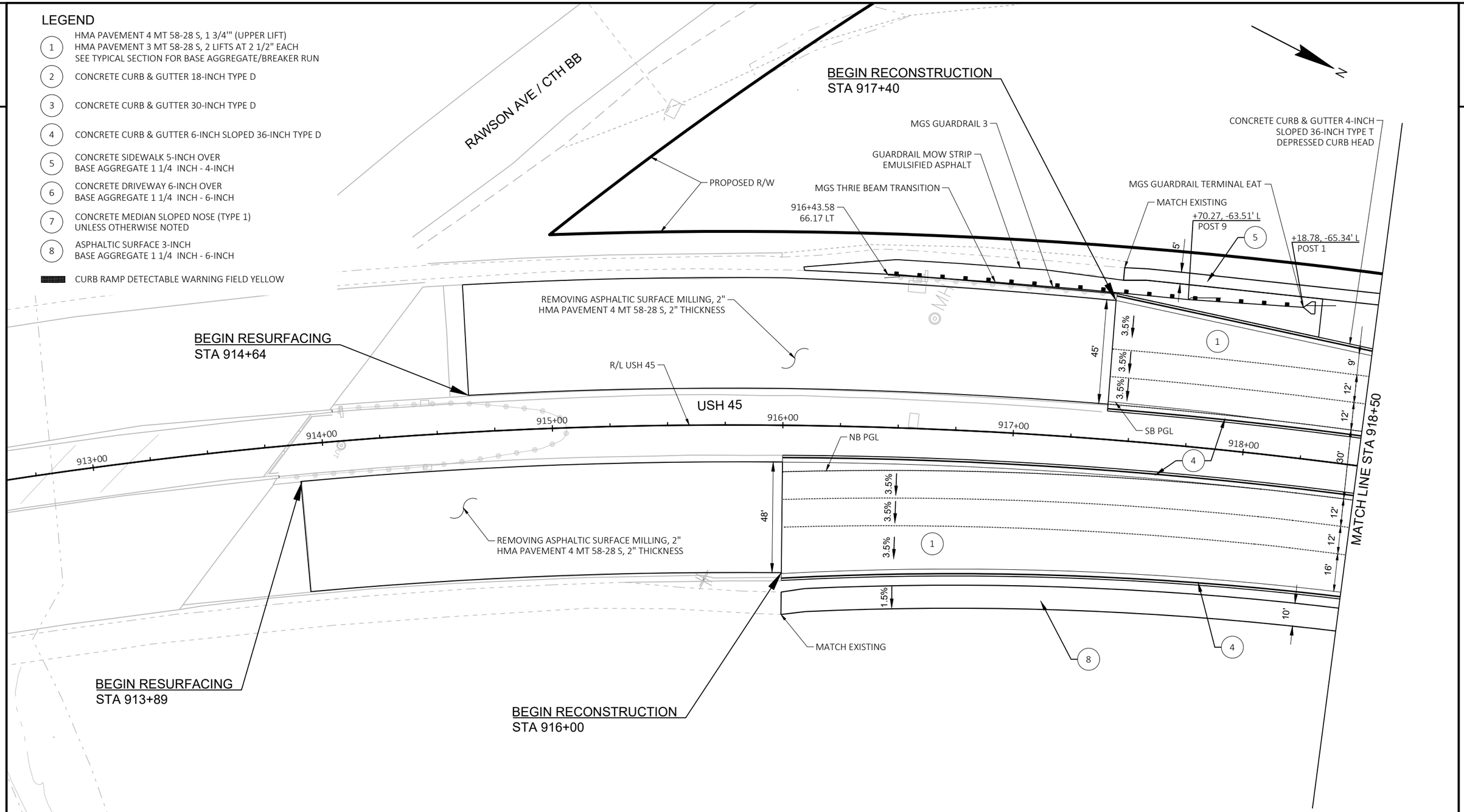
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021108
PLOT DATE : 5/1/2023 11:15 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4'" (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 44	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201
PLOT DATE : 5/31/2023 2:01 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

MATCH LINE STA 248+40

CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T DEPRESSED CURB HEAD

PROPOSED R/W

R/L RAWSON NW RAMP

TRANSITION CURB HEIGHT SOUTH OF RADIUS RETURN, USE 10' TRANSITION

RAWSON NW RAMP

249+00

TLE

EXISTING R/W

FRONTAGE ROAD WEST

POINTS 543 AND 544 ARE LISTED IN THE TABLE ON THE NEXT PAGE

544

543

USH 45

250+00

MATCH LINE STA 918+50

MATCH LINE STA 924+00

R/L USH 45

FRONTAGE ROAD EAST

R/L FRONTAGE ROAD EAST

ASPH

CONC

PROPOSED R/W

6' CURB TRANSITION AFTER RADIUS RETURN

PHYLLIS LANE

R/L PHYLLIS LANE

LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4'" (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1) UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS
500	301+28.85	11.36 RT	255209.13	569464.77
501	301+11.03	93.14 RT	255126.28	569449.24
502	300+98.95	94.35 RT	255124.79	569434.74
503	301+07.77	13.87 RT	255205.40	569443.09

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 45	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021202
PLOT DATE : 5/31/2023 2:02 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE					STATION & OFFSET TABLE					STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS
543	325+91.81	-13.50 LT	255249.34	569242.14	536	328+50.55	-13.50 LT	255509.23	569235.32	540	329+72.27	-13.50 LT	255630.93	569237.48
544	325+96.29	-44.47 LT	255251.26	569210.90	537	328+56.97	-45.72 LT	255516.22	569203.22	541	329+90.51	-36.07 LT	255649.57	569215.24
545	326+18.58	-44.96 LT	255273.91	569208.65	538	328+84.10	-45.82 LT	255543.35	569203.59	542	330+11.63	-36.07 LT	255670.69	569215.62
546	326+23.05	-13.50 LT	255280.67	569239.70	539	328+88.60	-13.50 LT	255547.27	569235.99	590	330+14.07	-9.65 LT	255672.66	569242.07

LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4'" (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1) UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

N

STAMPING COLORED CONCRETE
PROPOSED R/W
R/L FRONTAGE ROAD WEST
TLE
EXISTING R/W
SIGN
FRONTAGE ROAD WEST
USH 45
R/L USH 45
928+24.82
-64.00 L
R15'
R20'
MATCH LINE STA 924+00
MATCH LINE STA 929+50
924+17.14
60.51 R
CRASH CUSHIONS PERMANENT
FRONTAGE ROAD EAST
R/L FRONTAGE ROAD EAST
CONCRETE BARRIER TYPE S32A
DELINEATORS BARRIER WALL

STATION & OFFSET TABLE					STATION & OFFSET TABLE					STATION & OFFSET TABLE					STATION & OFFSET TABLE					STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS
504	351+26.65	7.50 RT	255344.33	569409.31	508	351+96.96	7.50 RT	255413.94	569407.41	512	353+72.32	7.50 RT	255589.10	569409.77	516	354+81.72	7.50 RT	255698.67	569411.72	520	355+25.69	7.50 RT	255744.04	569412.52
505	351+28.72	26.01 RT	255348.39	569427.65	509	352+00.53	35.03 RT	255419.31	569434.90	513	353+75.56	24.00 RT	255593.64	569426.35	517	354+84.28	35.00 RT	255702.15	569439.28	521	355+28.69	35.00 RT	255746.55	569440.07
506	351+42.50	26.01 RT	255361.98	569427.12	510	352+16.24	35.02 RT	255434.75	569434.84	514	353+94.95	24.00 RT	255613.02	569426.69	518	354+99.95	34.99 RT	255717.81	569439.56	522	355+49.05	35.00 RT	255766.91	569440.43
507	351+44.87	7.52 RT	255365.45	569408.48	511	352+18.48	7.50 RT	255438.38	569407.32	515	353+97.78	7.50 RT	255617.59	569410.27	519	355+03.39	7.50 RT	255723.33	569412.15	523	355+52.05	7.50 RT	255770.40	569412.99

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 46	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021203
PLOT DATE : 4/28/2023 4:59 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

STATION & OFFSET TABLE					STATION & OFFSET TABLE					STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS
591	930+73.99	-55.00 LT	255937.27	569277.44	547	932+28.40	-57.50 LT	256091.71	569277.69	551	933+78.50	-57.50 LT	256241.78	569280.36
592	930+76.17	-80.00 LT	255939.91	569252.49	548	932+33.40	-73.00 LT	256096.99	569262.28	552	933+85.10	-72.00 LT	256248.64	569265.98
593	931+11.49	-80.00 LT	255975.22	569253.12	549	932+45.65	-72.98 LT	256109.23	569262.52	553	934+12.05	-72.00 LT	256275.59	569266.46
594	931+31.85	-55.00 LT	255995.13	569278.47	550	932+50.65	-57.50 LT	256113.96	569278.09	554	934+18.29	-57.50 LT	256281.57	569281.07

LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4'" (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1) UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

N

MATCH LINE STA 929+50

MATCH LINE STA 935+00

USH 45

R/L USH 45

930+00 931+00 932+00 933+00 934+00 935

FRONTAGE ROAD EAST

356+00 357+00 358+00 359+00 360+00

R/L FRONTAGE ROAD EAST

EXISTING R/W

TLE

STAMPING COLORED CONCRETE

CONCRETE BARRIER TYPE S32A, DELINEATORS BARRIER WALL

PROPOSED R/W

933+10.20
60.45 R

CRASH CUSHIONS PERMANENT

HERDA PL

R/L HERDA PLACE

401+00

R30'

R15'

21'

STATION & OFFSET TABLE					STATION & OFFSET TABLE					STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS
524	357+12.16	7.50 RT	255928.98	569415.82	528	357+61.00	7.50 RT	255977.81	569416.68	532	358+53.05	7.50 RT	256069.85	569418.32
525	357+15.16	24.00 RT	255933.19	569432.39	529	357+64.00	22.00 RT	255982.05	569431.26	533	358+56.05	40.00 RT	256073.77	569450.90
526	357+31.57	24.00 RT	255949.59	569432.68	530	357+78.60	22.00 RT	255996.65	569431.52	534	358+68.05	40.00 RT	256085.76	569451.11
527	357+34.57	7.50 RT	255954.39	569416.27	531	357+83.69	7.50 RT	256003.50	569417.14	535	358+71.05	7.50 RT	256090.84	569418.70

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 47	E

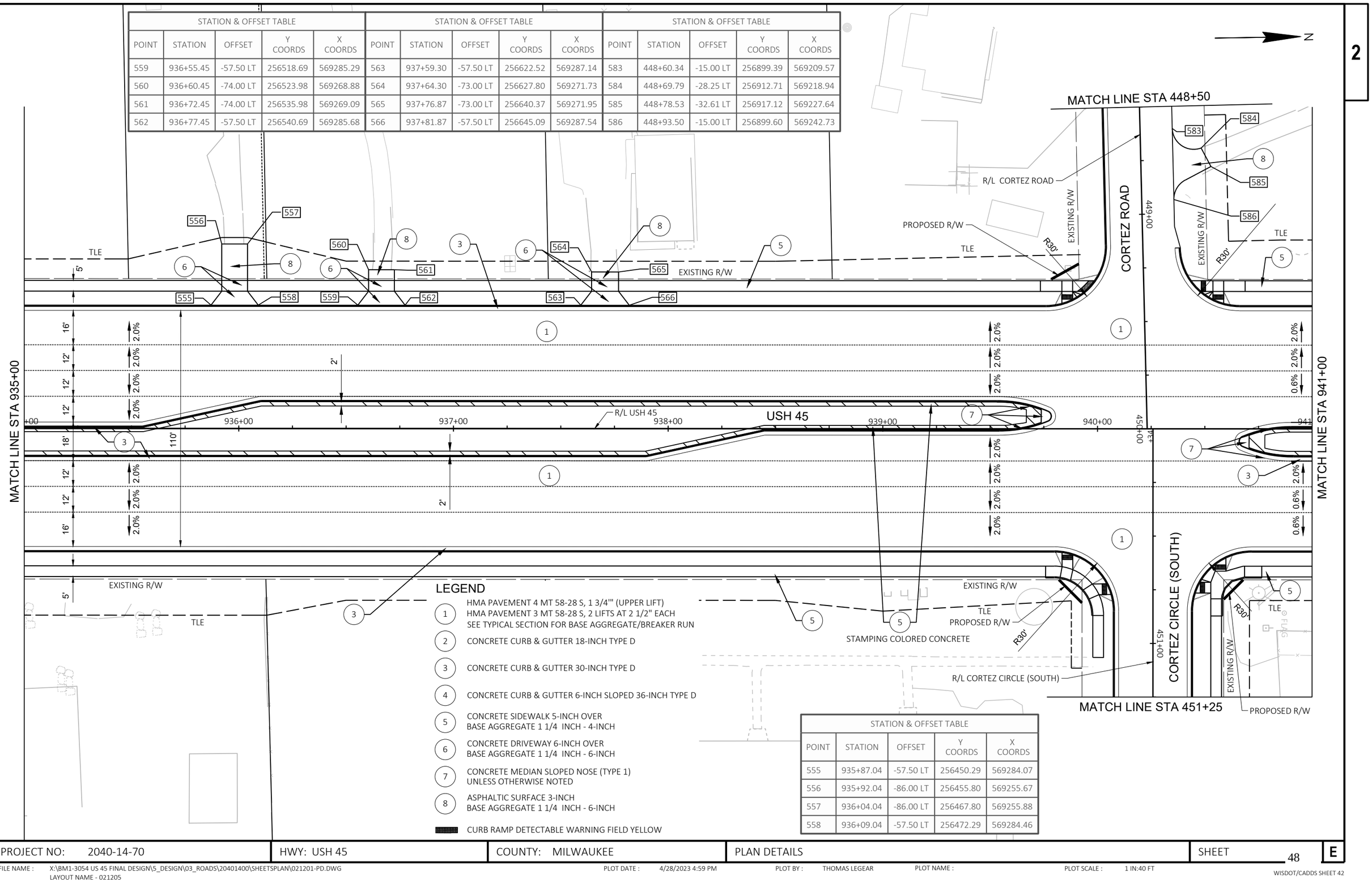
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021204

PLOT DATE : 4/28/2023 4:59 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
559	936+55.45	-57.50 LT	256518.69	569285.29
560	936+60.45	-74.00 LT	256523.98	569268.88
561	936+72.45	-74.00 LT	256535.98	569269.09
562	936+77.45	-57.50 LT	256540.69	569285.68

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
563	937+59.30	-57.50 LT	256622.52	569287.14
564	937+64.30	-73.00 LT	256627.80	569271.73
565	937+76.87	-73.00 LT	256640.37	569271.95
566	937+81.87	-57.50 LT	256645.09	569287.54

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
583	448+60.34	-15.00 LT	256899.39	569209.57
584	448+69.79	-28.25 LT	256912.71	569218.94
585	448+78.53	-32.61 LT	256917.12	569227.64
586	448+93.50	-15.00 LT	256899.60	569242.73



LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4"' (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
555	935+87.04	-57.50 LT	256450.29	569284.07
556	935+92.04	-86.00 LT	256455.80	569255.67
557	936+04.04	-86.00 LT	256467.80	569255.88
558	936+09.04	-57.50 LT	256472.29	569284.46

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 48	E

2

LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4'" (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

N

MATCH LINE STA 941+00

MATCH LINE STA 946+50

R/L PRAIRIE WOOD LANE

PRAIRIE WOOD LANE

EXISTING R/W

TLE

STAMPING COLORED CONCRETE

R25'

30'

499+00

942+00

943+00

944+00

945+00

946+00

R/L USH 45

USH 45

EXISTING R/W

TLE

PROPOSED R/W

R30'

501+00

CORTEZ CIRCLE (NORTH)

33'

STAMPING COLORED CONCRETE

R/L CORTEZ CIRCLE (NORTH)

EXISTING R/W

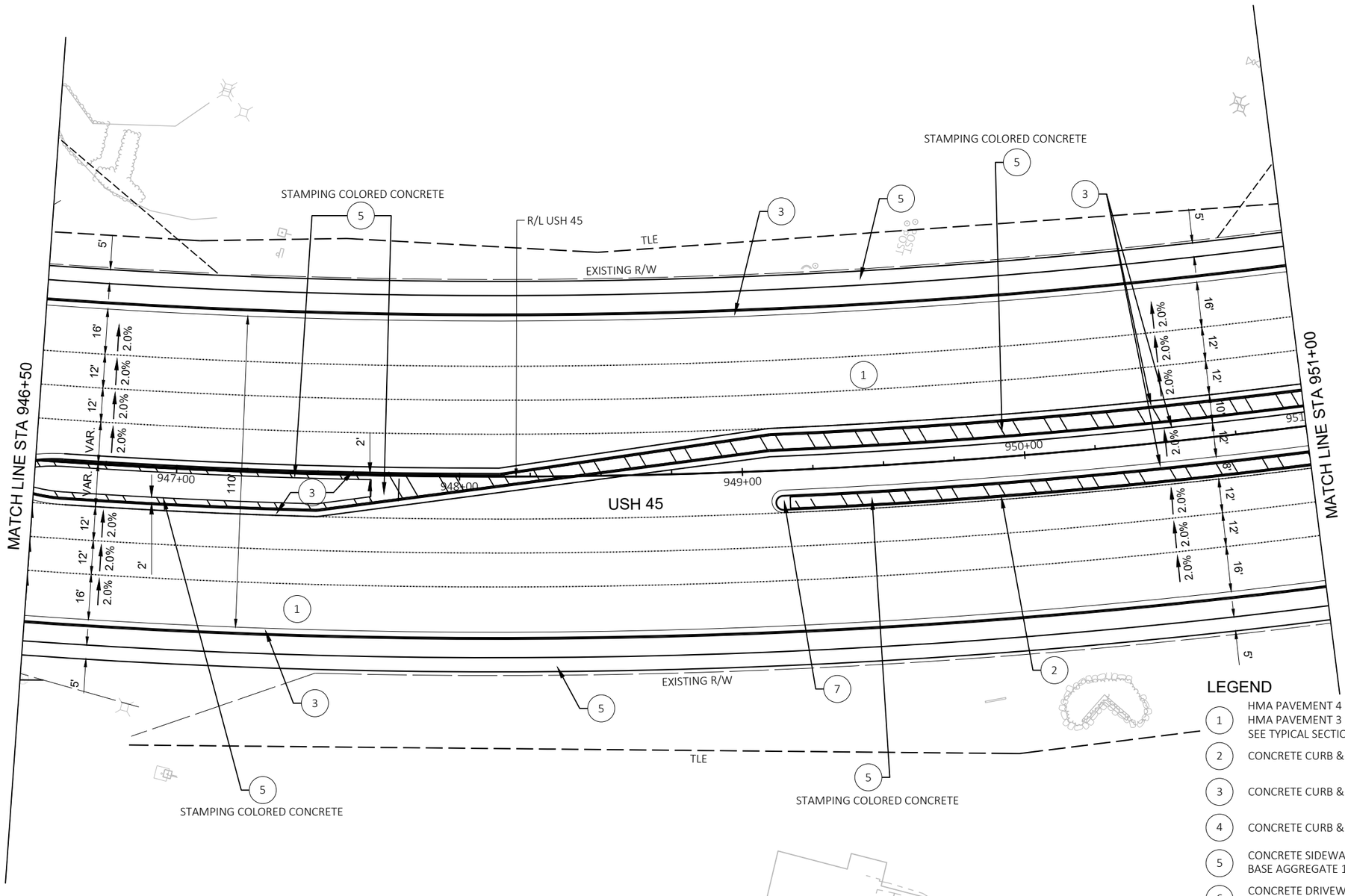
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 49	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021206

PLOT DATE : 4/28/2023 5:00 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

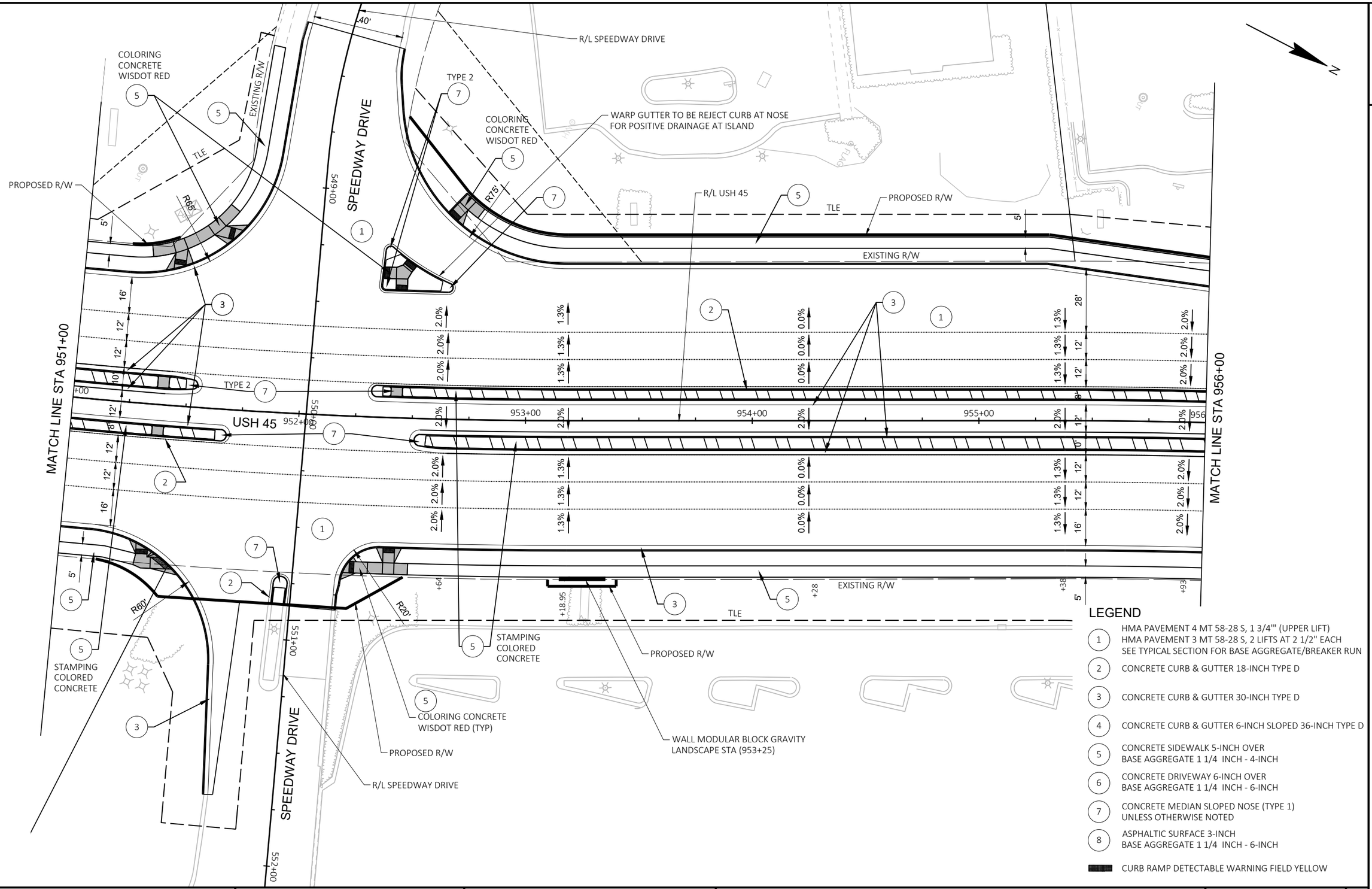


LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4'" (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 50	E



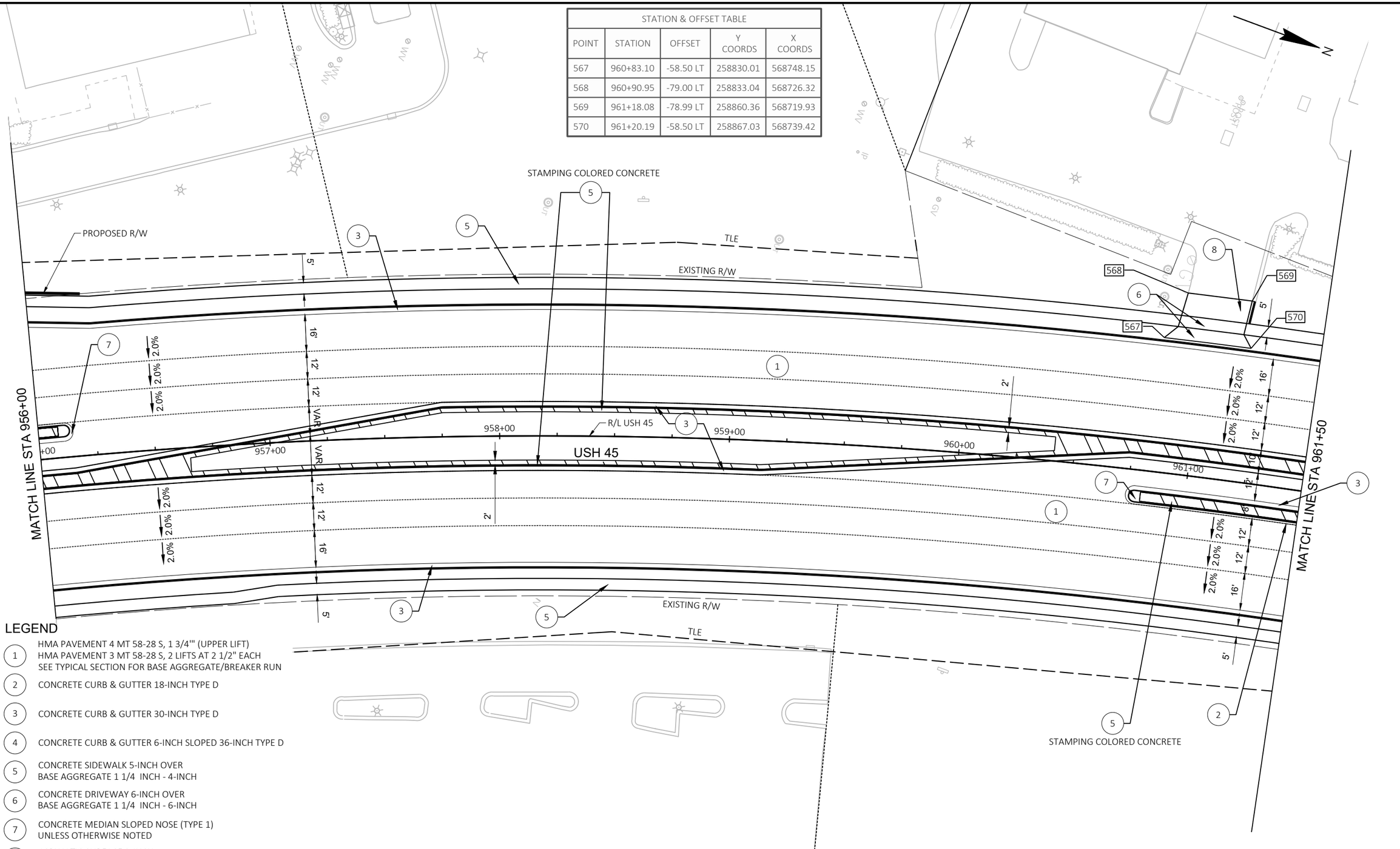
LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4"' (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 51	E

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
567	960+83.10	-58.50 LT	258830.01	568748.15
568	960+90.95	-79.00 LT	258833.04	568726.32
569	961+18.08	-78.99 LT	258860.36	568719.93
570	961+20.19	-58.50 LT	258867.03	568739.42



LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4'" (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 52	E

2

N

WARP GUTTER TO BE REJECT CURB AT NOSE
FOR POSITIVE DRAINAGE AT ISLAND
SEE CONSTRUCTION DETAIL

5 STAMPING COLORED CONCRETE

5 STAMPING COLORED CONCRETE

R30'

R30'

TLE

EXISTING R/W

USH 45

MATCH LINE STA 961+50

MATCH LINE STA 966+00

962+00

963+00

964+00

965+00

TYPE 2

WHITNALL EDGE ROAD

0.5%

+74.15

+11.65

2.0%

601+00

R25'

R25'

R/L USH 45

R/L WHITNALL EDGE ROAD

EXISTING R/W

TLE

MATCH LINE STA 601+25

LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4''' (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 53	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021210

PLOT DATE : 6/1/2023 9:37 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:40 FT

STATION & OFFSET TABLE					STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS	POINT	STATION	OFFSET	Y COORDS	X COORDS
571	966+71.58	-57.50 LT	259428.09	568682.27	575	968+19.54	-57.50 LT	259576.09	568684.92
572	966+68.07	-80.00 LT	259424.84	568659.71	576	968+18.43	-84.00 LT	259575.45	568658.40
573	967+18.79	-81.45 LT	259475.79	568659.17	577	968+49.06	-84.00 LT	259606.08	568658.95
574	967+14.80	-57.50 LT	259471.36	568683.04	578	968+53.52	-57.50 LT	259610.07	568685.52

N

MATCH EXISTING
968+74.60
-68.07 L

TLE

EXISTING R/W

USH 45

END PROJECT
STA 968+80
MATCH EXISTING

MATCH LINE STA 966+00

967+00 968+00 969+00 970+00 971+00 971+50 972+00

R/L USH 45

STAMPING COLORED CONCRETE

R20'

R30'

0.7% +74.11

2.0% +15.00

651+00

VENTURE DRIVE

R/L VENTURE DRIVE

PROPOSED R/W

MATCH EXISTING
968+25.42
68.37 R

SIGN

CANOPY

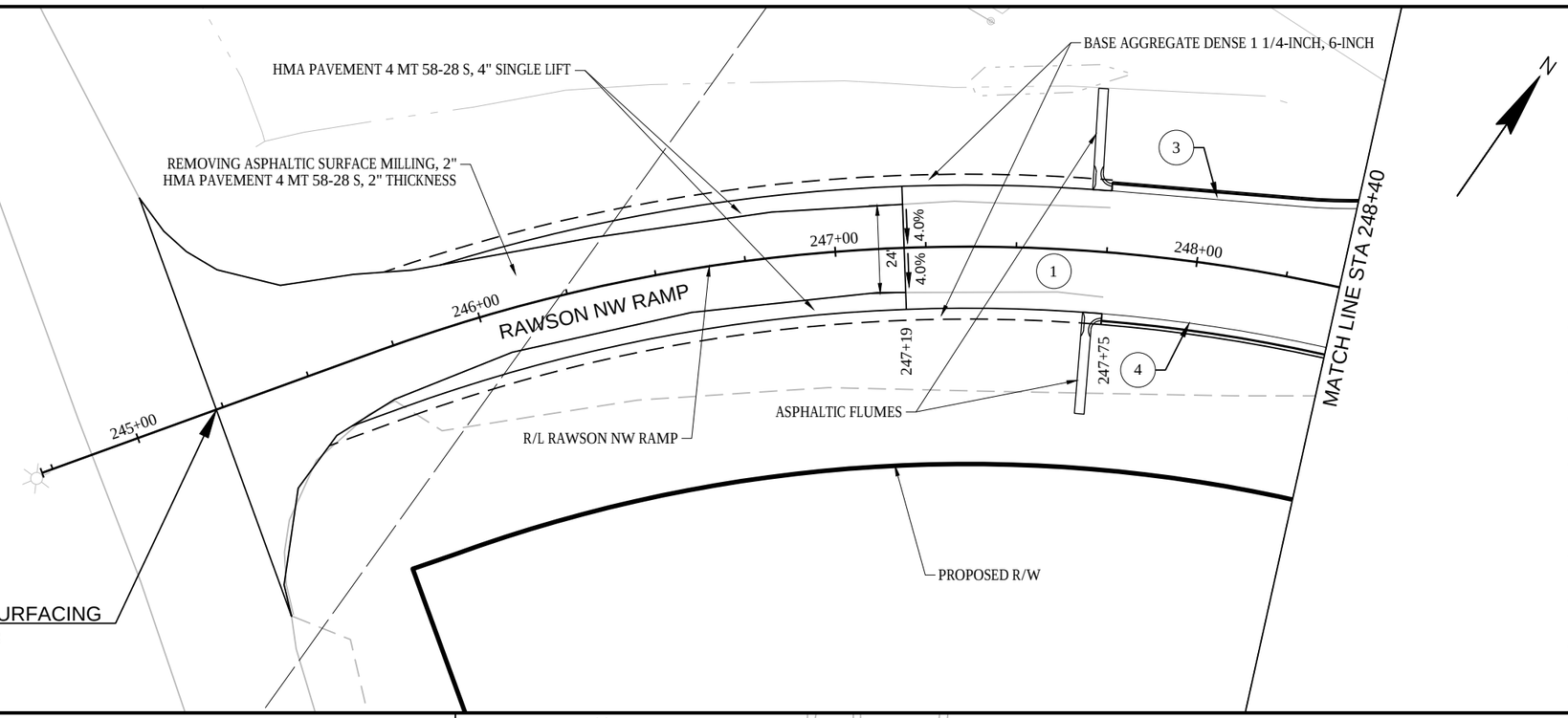
LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4'" (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 54	E

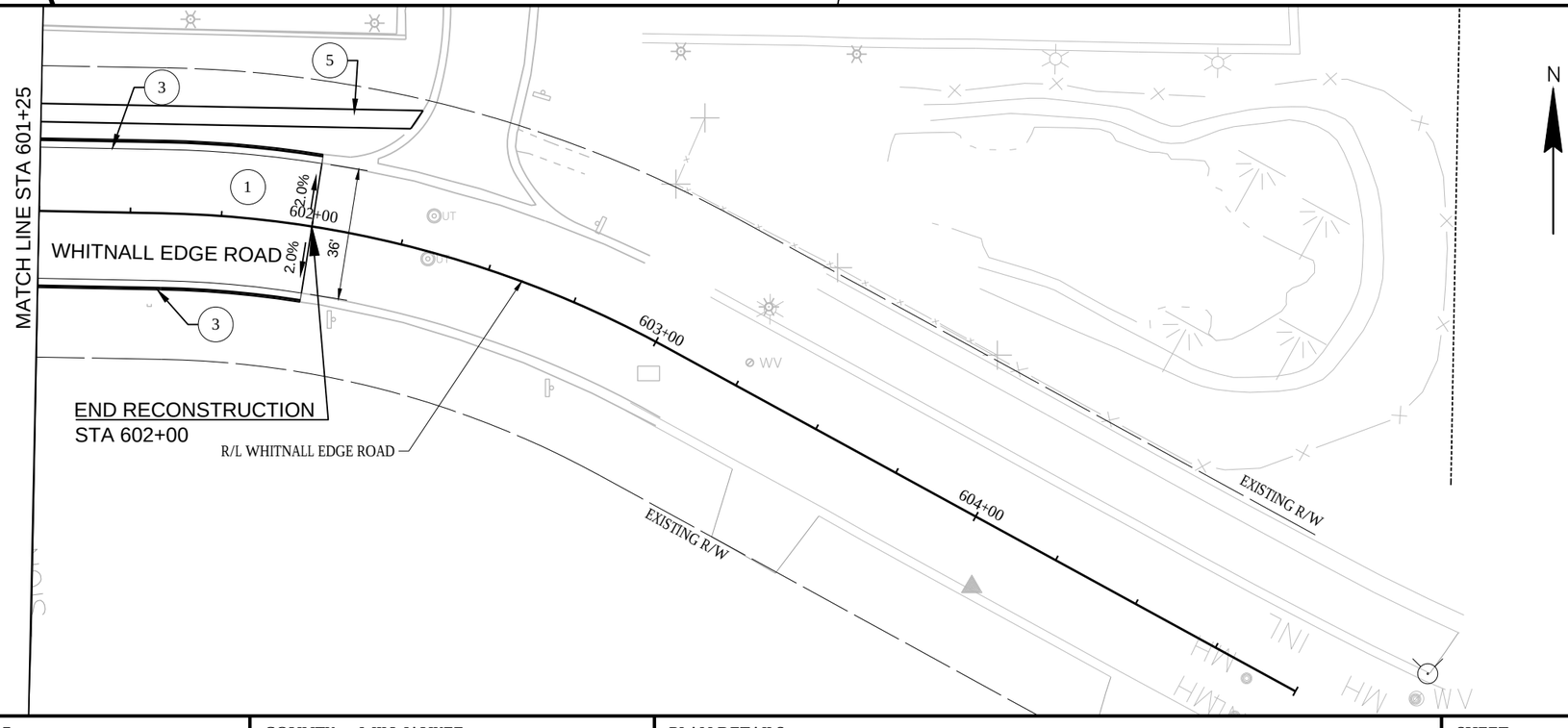
2



LEGEND

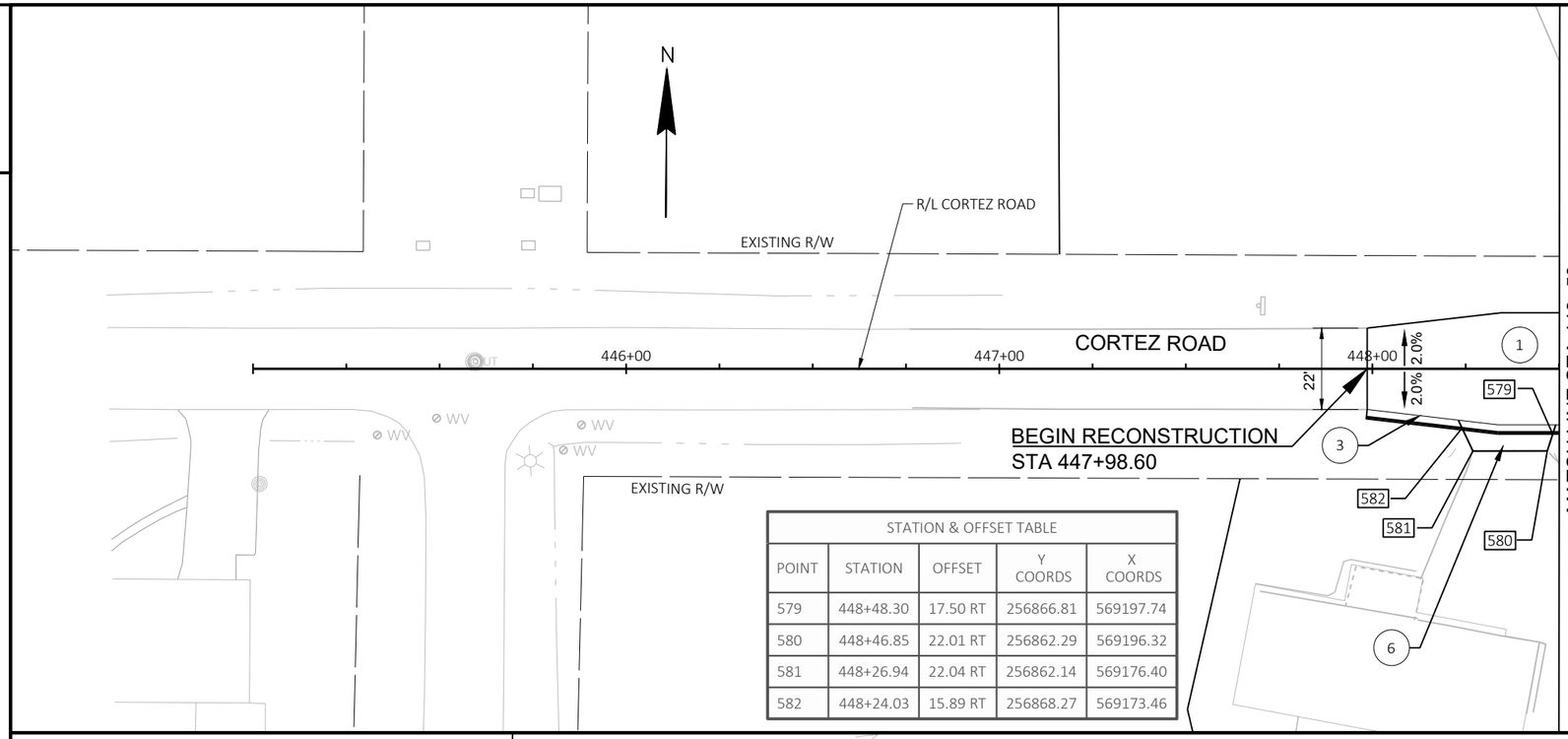
1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4"' (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 55	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021212
PLOT DATE : 4/29/2023 2:52 PM
PLOT BY : JAKE BONDHUS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

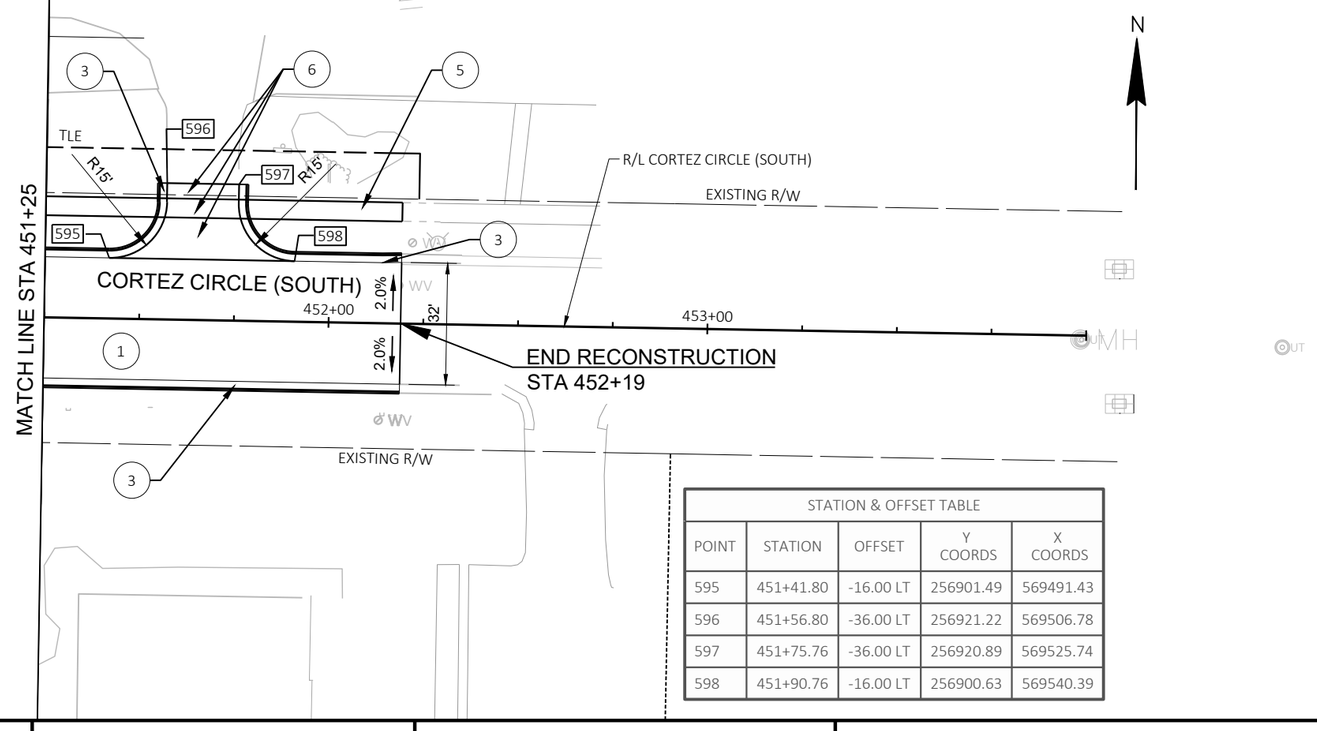


STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
579	448+48.30	17.50 RT	256866.81	569197.74
580	448+46.85	22.01 RT	256862.29	569196.32
581	448+26.94	22.04 RT	256862.14	569176.40
582	448+24.03	15.89 RT	256868.27	569173.46

LEGEND

1. HMA PAVEMENT 4 MT 58-28 S, 1 3/4'" (UPPER LIFT)
   HMA PAVEMENT 3 MT 58-28 S, 2 LIFTS AT 2 1/2" EACH
   SEE TYPICAL SECTION FOR BASE AGGREGATE/BREAKER RUN
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
5. CONCRETE SIDEWALK 5-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 4-INCH
6. CONCRETE DRIVEWAY 6-INCH OVER
   BASE AGGREGATE 1 1/4 INCH - 6-INCH
7. CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
   UNLESS OTHERWISE NOTED
8. ASPHALTIC SURFACE 3-INCH
   BASE AGGREGATE 1 1/4 INCH - 6-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW



STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
595	451+41.80	-16.00 LT	256901.49	569491.43
596	451+56.80	-36.00 LT	256921.22	569506.78
597	451+75.76	-36.00 LT	256920.89	569525.74
598	451+90.76	-16.00 LT	256900.63	569540.39

2

R/L RAWSON NW RAMP

CURB RAMP TYPE 4B1

30-INCH CURB AND GUTTER, TYPE D

R/L USH 45

PROPOSED R/W

STATION & OFFSET TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
100	249+14.63	22.51 RT	254856.59	569316.27	779.79	FL
101	249+23.22	27.02 RT	254854.37	569325.71	779.85	FL
102	249+23.72	31.20 RT	254850.44	569327.23	780.05	FG
103	249+24.31	36.16 RT	254845.78	569329.03	780.14	FG
104	249+25.49	46.09 RT	254836.45	569332.64	780.49	FG
105	249+17.54	47.04 RT	254833.56	569325.18	780.61	FG
106	249+16.37	37.11 RT	254842.89	569321.57	780.02	FG
107	249+15.78	32.14 RT	254847.55	569319.77	780.17	FG

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - RAWSON NW RAMP S	SHEET 57	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Rawson NW Ramp S

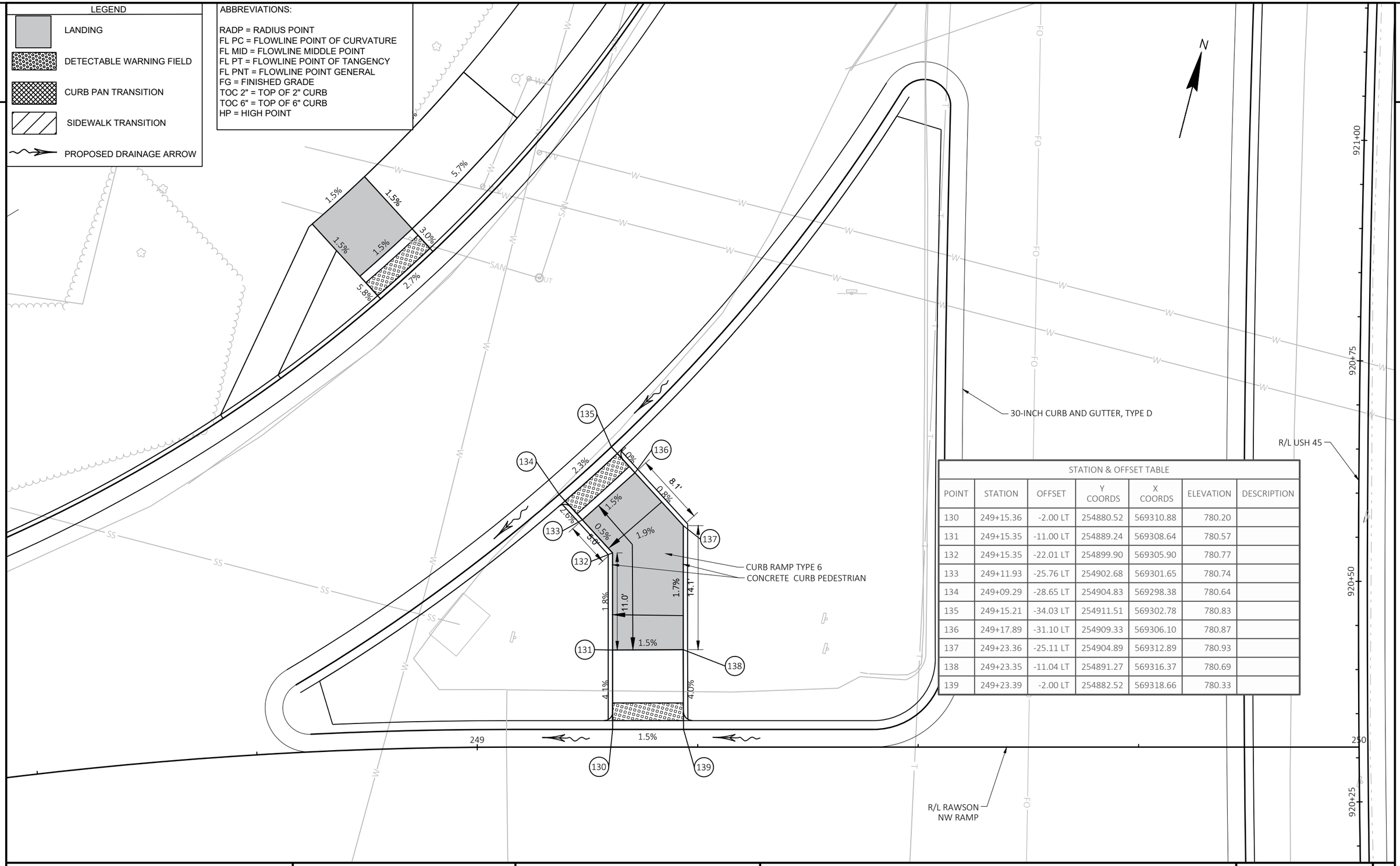
PLOT DATE : 6/1/2023 11:12 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
130	249+15.36	-2.00 LT	254880.52	569310.88	780.20	
131	249+15.35	-11.00 LT	254889.24	569308.64	780.57	
132	249+15.35	-22.01 LT	254899.90	569305.90	780.77	
133	249+11.93	-25.76 LT	254902.68	569301.65	780.74	
134	249+09.29	-28.65 LT	254904.83	569298.38	780.64	
135	249+15.21	-34.03 LT	254911.51	569302.78	780.83	
136	249+17.89	-31.10 LT	254909.33	569306.10	780.87	
137	249+23.36	-25.11 LT	254904.89	569312.89	780.93	
138	249+23.35	-11.04 LT	254891.27	569316.37	780.69	
139	249+23.39	-2.00 LT	254882.52	569318.66	780.33	

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - RAWSON NW RAMP ISLAND	SHEET 58	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Rawson NW Ramp Island
PLOT DATE : 6/1/2023 11:12 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

STATION & OFFSET TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
170	248+90.48	-51.01 LT	254921.26	569273.27	780.10	FL
171	248+95.91	-56.25 LT	254927.93	569277.67	780.32	FL
172	248+93.85	-58.88 LT	254929.85	569274.74	780.42	FG
173	248+98.23	-63.62 LT	254944.96	569283.17	781.42	FG
174	248+93.28	-69.29 LT	254948.50	569275.99	781.54	FG
175	248+89.22	-64.93 LT	254934.23	569268.05	780.55	FG
176	248+83.81	-59.78 LT	254927.55	569263.64	780.42	FG
177	248+88.43	-53.67 LT	254923.17	569270.34	780.30	FG

TLE
EXISTING R/W
174
173
175
176
177
172
171
170
16.3'
6.1%
1.5%
8.0'
5.7%
1.5%
1.5%
1.5%
1.5%
3.0%
2.7%
5.8%
CURB RAMP TYPE 3 (MODIFIED)
30-INCH CURB AND GUTTER, TYPE D
R/L RAWSON NW RAMP
R/L USH 45
N
921+50
921+25
921+00
920+75

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - RAWSON NW RAMP N	SHEET 59	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Rawson NW Ramp N
PLOT DATE : 6/1/2023 11:12 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

2

N

PROPOSED R/W

R/L PHYLLIS LANE

923+25

923+00

922+75

922+50

R/L USH 45

TLE

EXISTING R/W

CURB RAMP TYPE 3

30-INCH CURB AND GUTTER, TYPE D

253
254
255
252
251
250
256
259
257
258

1.5%
8.0'
6.5%
10.0'
6.5%
5.6%
1.5%
1.5%
1.5%
5.6%
1.5%
10.0'
2.3%
2.2%
1.5%
6.6%
5.1%

STATION & OFFSET TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
250	922+90.48	-57.00 LT	255146.06	569286.21	785.69	FL
251	923+00.22	-57.00 LT	255155.98	569284.89	785.84	FL
252	923+00.22	-60.50 LT	255155.52	569281.42	786.04	FG
253	923+09.93	-60.50 LT	255168.17	569279.80	786.86	FG
254	923+09.90	-68.50 LT	255167.18	569271.86	786.98	FG
255	923+00.22	-68.50 LT	255154.49	569273.48	786.16	FG
256	922+90.53	-68.50 LT	255144.57	569274.80	786.01	FG
257	922+80.85	-68.50 LT	255134.67	569276.17	786.23	FG
258	922+80.78	-60.50 LT	255135.70	569284.10	786.11	FG
259	922+90.50	-60.50 LT	255145.61	569282.74	785.89	FG

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PHYLLIS LANE SW	SHEET 60	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Phyllis Lane SW

PLOT DATE : 6/1/2023 11:13 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

LEGEND

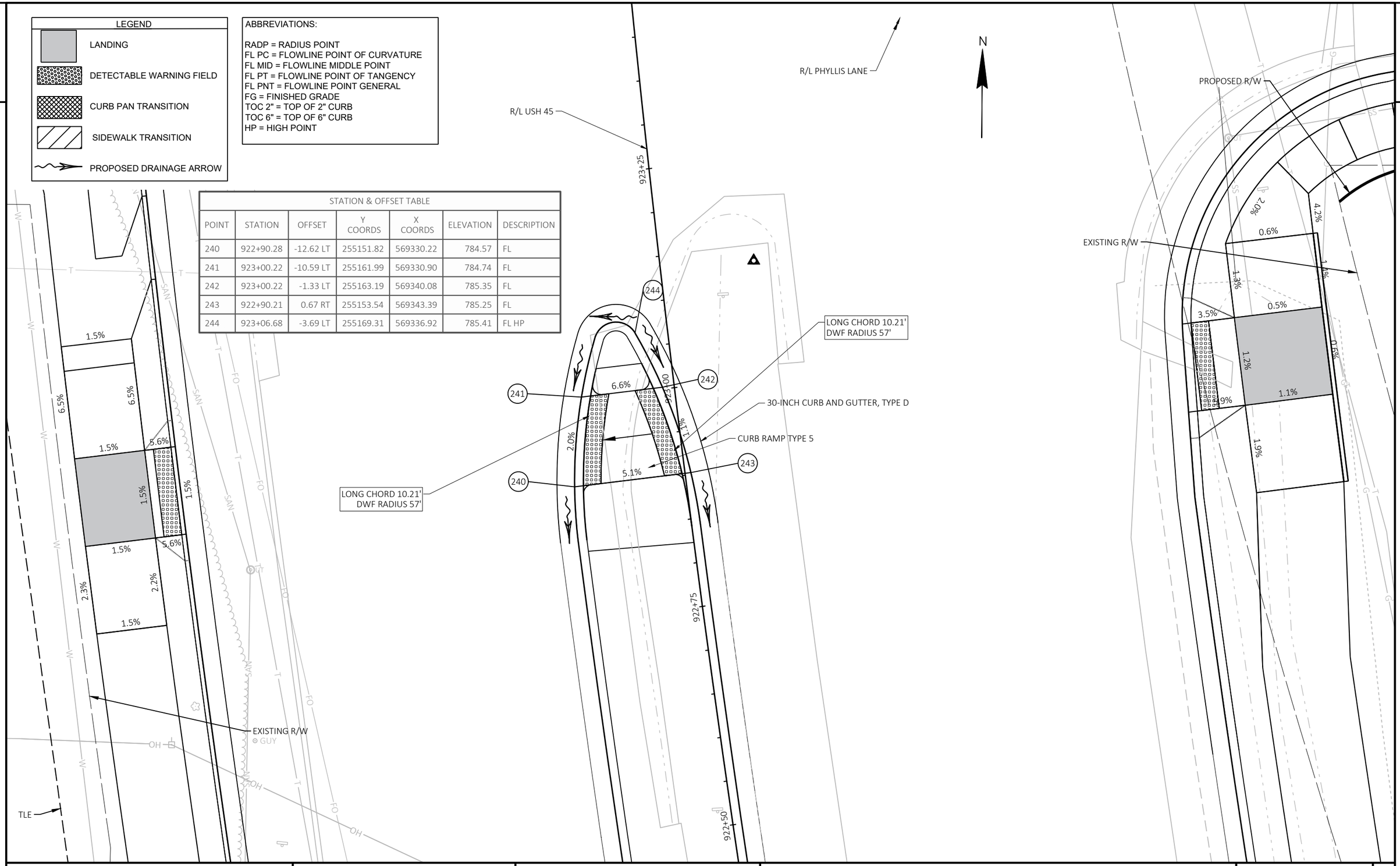
- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

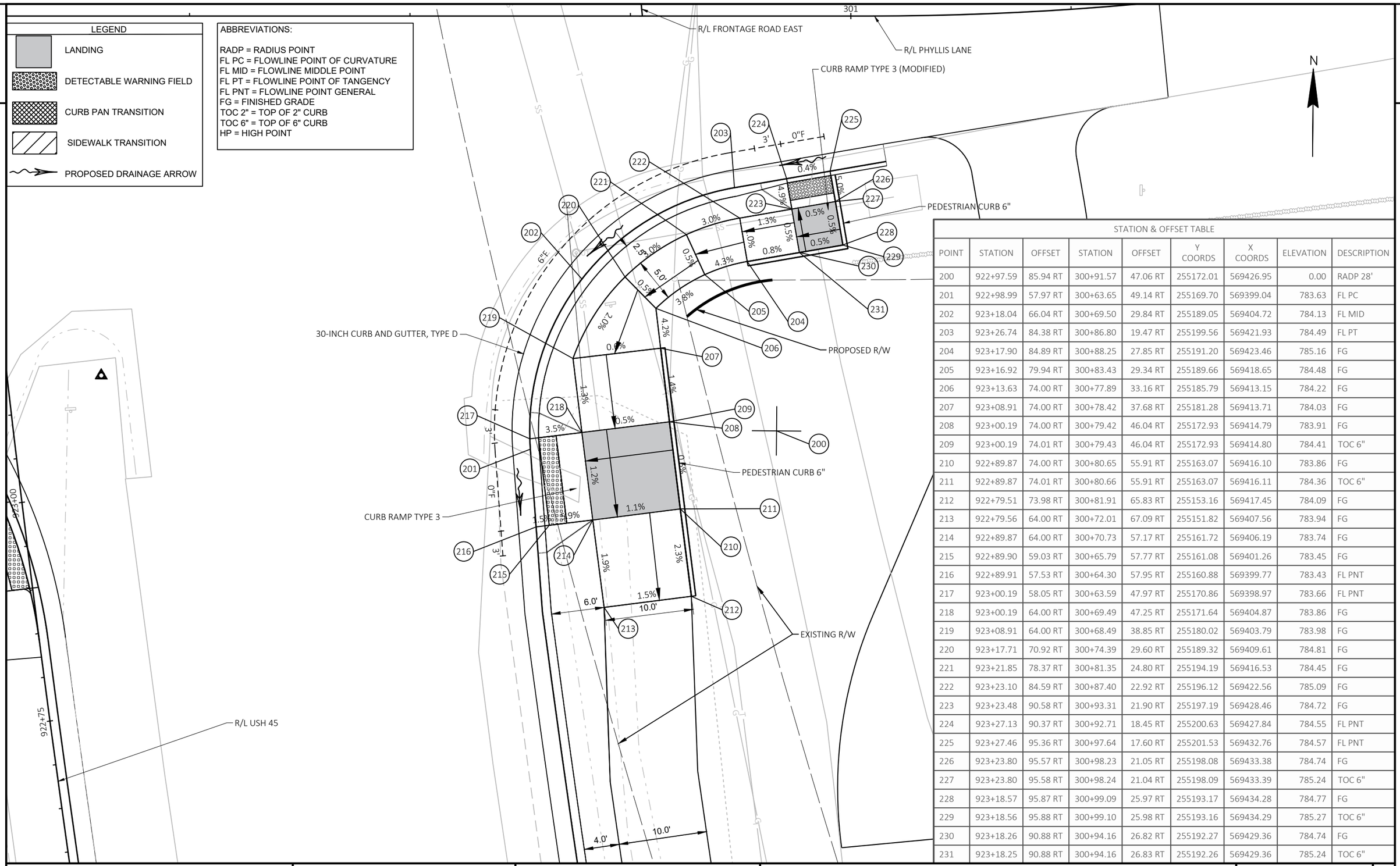
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
240	922+90.28	-12.62 LT	255151.82	569330.22	784.57	FL
241	923+00.22	-10.59 LT	255161.99	569330.90	784.74	FL
242	923+00.22	-1.33 LT	255163.19	569340.08	785.35	FL
243	922+90.21	0.67 RT	255153.54	569343.39	785.25	FL
244	923+06.68	-3.69 LT	255169.31	569336.92	785.41	FL HP



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PHYLLIS LANE MEDIAN	SHEET 61	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Phyllis Lane Median
PLOT DATE : 6/1/2023 11:13 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT



STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
200	922+97.59	85.94 RT	300+91.57	47.06 RT	255172.01	569426.95	0.00	RADP 28'
201	922+98.99	57.97 RT	300+63.65	49.14 RT	255169.70	569399.04	783.63	FL PC
202	923+18.04	66.04 RT	300+69.50	29.84 RT	255189.05	569404.72	784.13	FL MID
203	923+26.74	84.38 RT	300+86.80	19.47 RT	255199.56	569421.93	784.49	FL PT
204	923+17.90	84.89 RT	300+88.25	27.85 RT	255191.20	569423.46	785.16	FG
205	923+16.92	79.94 RT	300+83.43	29.34 RT	255189.66	569418.65	784.48	FG
206	923+13.63	74.00 RT	300+77.89	33.16 RT	255185.79	569413.15	784.22	FG
207	923+08.91	74.00 RT	300+78.42	37.68 RT	255181.28	569413.71	784.03	FG
208	923+00.19	74.00 RT	300+79.42	46.04 RT	255172.93	569414.79	783.91	FG
209	923+00.19	74.01 RT	300+79.43	46.04 RT	255172.93	569414.80	784.41	TOC 6"
210	922+89.87	74.00 RT	300+80.65	55.91 RT	255163.07	569416.10	783.86	FG
211	922+89.87	74.01 RT	300+80.66	55.91 RT	255163.07	569416.11	784.36	TOC 6"
212	922+79.51	73.98 RT	300+81.91	65.83 RT	255153.16	569417.45	784.09	FG
213	922+79.56	64.00 RT	300+72.01	67.09 RT	255151.82	569407.56	783.94	FG
214	922+89.87	64.00 RT	300+70.73	57.17 RT	255161.72	569406.19	783.74	FG
215	922+89.90	59.03 RT	300+65.79	57.77 RT	255161.08	569401.26	783.45	FG
216	922+89.91	57.53 RT	300+64.30	57.95 RT	255160.88	569399.77	783.43	FL PNT
217	923+00.19	58.05 RT	300+63.59	47.97 RT	255170.86	569398.97	783.66	FL PNT
218	923+00.19	64.00 RT	300+69.49	47.25 RT	255171.64	569404.87	783.86	FG
219	923+08.91	64.00 RT	300+68.49	38.85 RT	255180.02	569403.79	783.98	FG
220	923+17.71	70.92 RT	300+74.39	29.60 RT	255189.32	569409.61	784.81	FG
221	923+21.85	78.37 RT	300+81.35	24.80 RT	255194.19	569416.53	784.45	FG
222	923+23.10	84.59 RT	300+87.40	22.92 RT	255196.12	569422.56	785.09	FG
223	923+23.48	90.58 RT	300+93.31	21.90 RT	255197.19	569428.46	784.72	FG
224	923+27.13	90.37 RT	300+92.71	18.45 RT	255200.63	569427.84	784.55	FL PNT
225	923+27.46	95.36 RT	300+97.64	17.60 RT	255201.53	569432.76	784.57	FL PNT
226	923+23.80	95.57 RT	300+98.23	21.05 RT	255198.08	569433.38	784.74	FG
227	923+23.80	95.58 RT	300+98.24	21.04 RT	255198.09	569433.39	785.24	TOC 6"
228	923+18.57	95.87 RT	300+99.09	25.97 RT	255193.17	569434.28	784.77	FG
229	923+18.56	95.88 RT	300+99.10	25.98 RT	255193.16	569434.29	785.27	TOC 6"
230	923+18.26	90.88 RT	300+94.16	26.82 RT	255192.27	569429.36	784.74	FG
231	923+18.25	90.88 RT	300+94.16	26.83 RT	255192.26	569429.36	785.24	TOC 6"

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PHYLLIS LANE SE	SHEET 62	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Phyllis Lane SE
PLOT DATE : 6/1/2023 11:13 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

STATION & OFFSET TABLE								
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
280	923+69.25	91.00 RT	300+89.39	-21.71 LT	255240.76	569424.17	0.00	RADP 8'
281	923+60.94	90.12 RT	300+89.23	-13.71 LT	255232.76	569424.08	785.18	FL PC
282	923+63.68	85.04 RT	300+83.93	-15.86 LT	255234.87	569418.76	785.32	FL MID
283	923+69.25	83.00 RT	300+81.42	-21.00 LT	255239.99	569416.20	785.46	FL PT
284	923+68.36	93.00 RT	300+91.46	-21.03 LT	255240.10	569426.24	785.47	FG
285	923+62.07	93.00 RT	300+92.00	-15.04 LT	255234.12	569426.84	785.14	FG
288	923+60.60	93.00 RT	300+92.13	-13.65 LT	255232.73	569426.98	785.12	FL PNT
289	923+61.51	88.00 RT	300+87.07	-14.05 LT	255233.08	569421.91	785.23	FL PNT
290	923+66.28	83.53 RT	300+82.20	-18.20 LT	255237.19	569417.01	785.39	FL PNT
291	923+66.28	83.53 RT	300+82.20	-18.21 LT	255237.20	569417.01	785.89	TOC 6"
292	923+68.34	88.00 RT	300+86.48	-20.57 LT	255239.60	569421.27	785.54	FG
293	923+73.56	88.00 RT	300+86.04	-25.55 LT	255244.57	569420.79	785.57	FG
294	923+90.26	88.00 RT	300+84.73	-41.50 LT	255260.51	569419.33	786.54	FG
295	923+90.34	92.98 RT	300+89.68	-41.95 LT	255261.01	569424.29	786.62	FG
296	923+73.59	93.00 RT	300+91.02	-26.01 LT	255245.08	569425.76	785.49	FG

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

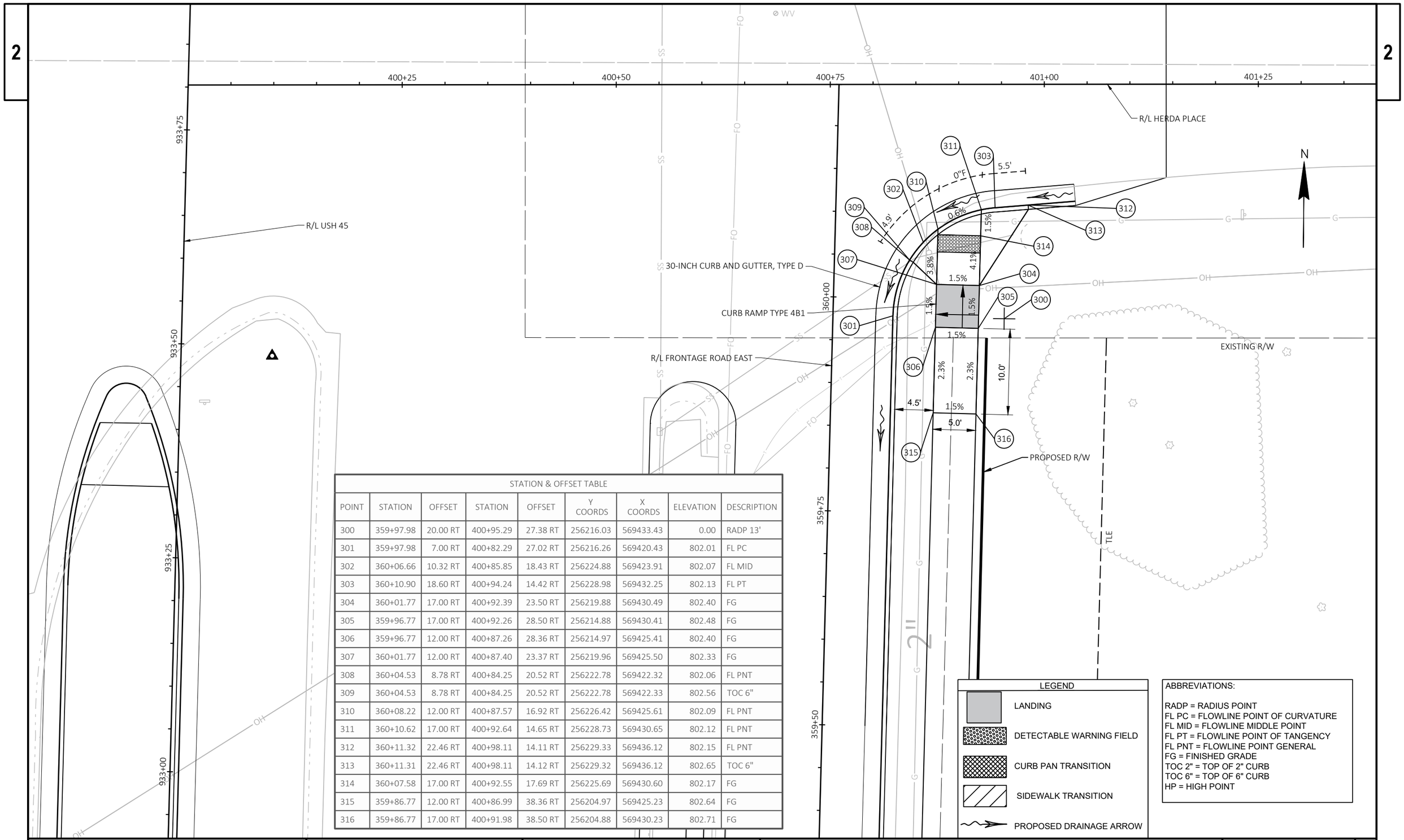
ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

924+25
924+00
923+75
350+75
350+50
350+25
4.5'
5.0'
294
295
1.5%
TLE
N
EXISTING R/W
6.1%
7.0%
296
30-INCH CURB AND GUTTER, TYPE D
293
1.5%
280
CURB RAMP TYPE 4B
R/L FRONTAGE ROAD EAST
292
0.5%
0.5%
1.5%
283
284
PEDESTRIAN CURB 6"
291
4.8%
5.5%
290
285
282
1.5%
1.5%
6.4'
0"F
4.1'
289
288
281
MATCH EXISTING ELEVATION
R/L USH 45
R/L PHYLLIS LANE
301

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PHYLLIS LANE NE	SHEET 63	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Phyllis Lane NE
PLOT DATE : 6/1/2023 11:14 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT



STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
300	359+97.98	20.00 RT	400+95.29	27.38 RT	256216.03	569433.43	0.00	RADP 13'
301	359+97.98	7.00 RT	400+82.29	27.02 RT	256216.26	569420.43	802.01	FL PC
302	360+06.66	10.32 RT	400+85.85	18.43 RT	256224.88	569423.91	802.07	FL MID
303	360+10.90	18.60 RT	400+94.24	14.42 RT	256228.98	569432.25	802.13	FL PT
304	360+01.77	17.00 RT	400+92.39	23.50 RT	256219.88	569430.49	802.40	FG
305	359+96.77	17.00 RT	400+92.26	28.50 RT	256214.88	569430.41	802.48	FG
306	359+96.77	12.00 RT	400+87.26	28.36 RT	256214.97	569425.41	802.40	FG
307	360+01.77	12.00 RT	400+87.40	23.37 RT	256219.96	569425.50	802.33	FG
308	360+04.53	8.78 RT	400+84.25	20.52 RT	256222.78	569422.32	802.06	FL PNT
309	360+04.53	8.78 RT	400+84.25	20.52 RT	256222.78	569422.33	802.56	TOC 6"
310	360+08.22	12.00 RT	400+87.57	16.92 RT	256226.42	569425.61	802.09	FL PNT
311	360+10.62	17.00 RT	400+92.64	14.65 RT	256228.73	569430.65	802.12	FL PNT
312	360+11.32	22.46 RT	400+98.11	14.11 RT	256229.33	569436.12	802.15	FL PNT
313	360+11.31	22.46 RT	400+98.11	14.12 RT	256229.32	569436.12	802.65	TOC 6"
314	360+07.58	17.00 RT	400+92.55	17.69 RT	256225.69	569430.60	802.17	FG
315	359+86.77	12.00 RT	400+86.99	38.36 RT	256204.97	569425.23	802.64	FG
316	359+86.77	17.00 RT	400+91.98	38.50 RT	256204.88	569430.23	802.71	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - HERDA PLACE SE	SHEET 64	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Herda Place SE

PLOT DATE : 6/1/2023 11:14 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

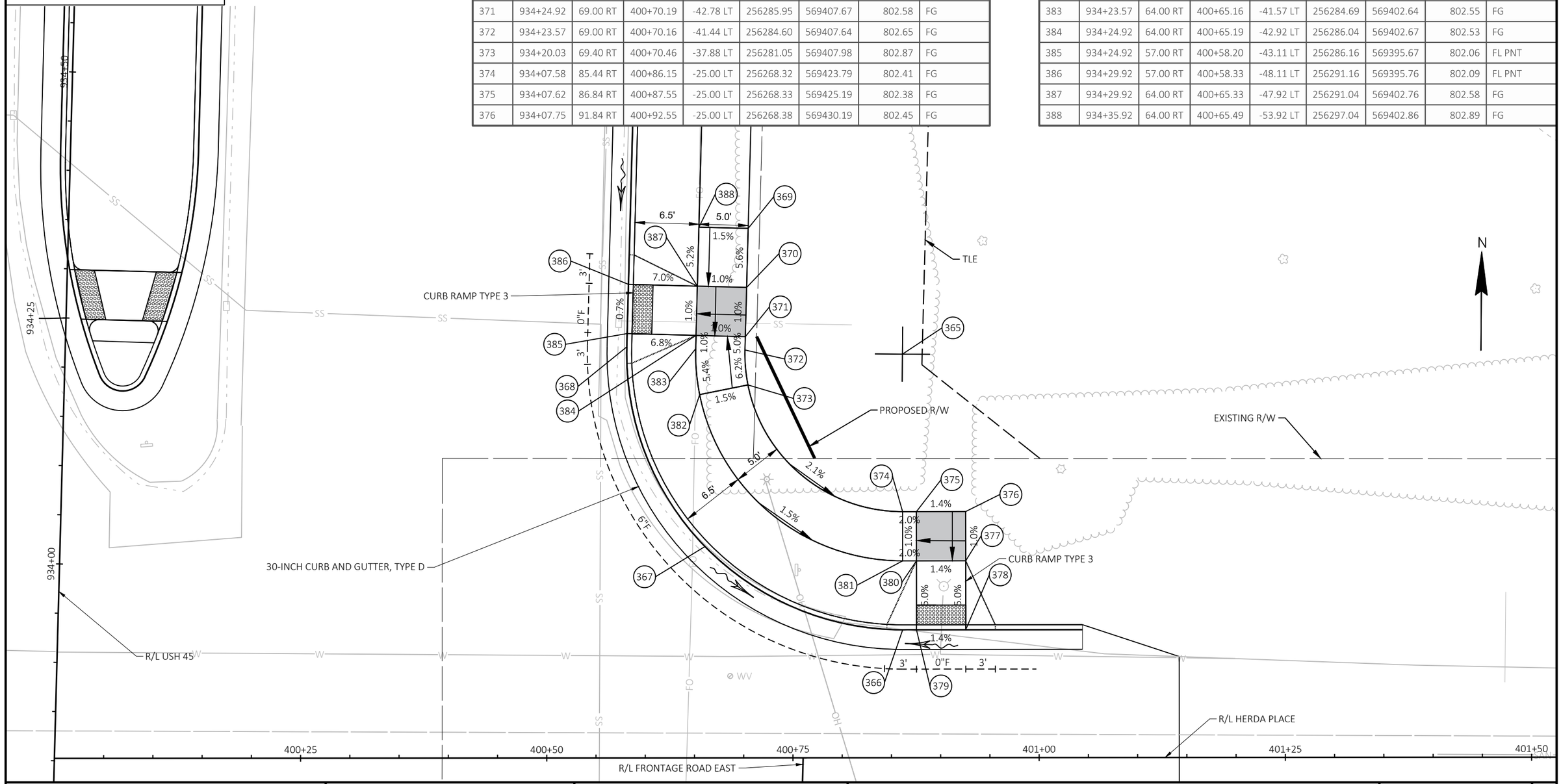
RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
365	934+23.57	85.00 RT	400+86.15	-41.00 LT	256284.32	569423.64	0.00	RADP 28'
366	933+95.58	85.76 RT	400+86.15	-13.00 LT	256256.32	569423.91	801.96	FL PC
367	934+03.51	65.47 RT	400+66.08	-21.47 LT	256264.60	569403.76	802.01	FL MID
368	934+23.57	57.00 RT	400+58.16	-41.76 LT	256284.81	569395.64	802.05	FL PT
369	934+35.92	69.00 RT	400+70.49	-53.78 LT	256296.95	569407.86	802.97	FG
370	934+29.92	69.00 RT	400+70.33	-47.78 LT	256290.95	569407.76	802.63	FG
371	934+24.92	69.00 RT	400+70.19	-42.78 LT	256285.95	569407.67	802.58	FG
372	934+23.57	69.00 RT	400+70.16	-41.44 LT	256284.60	569407.64	802.65	FG
373	934+20.03	69.40 RT	400+70.46	-37.88 LT	256281.05	569407.98	802.87	FG
374	934+07.58	85.44 RT	400+86.15	-25.00 LT	256268.32	569423.79	802.41	FG
375	934+07.62	86.84 RT	400+87.55	-25.00 LT	256268.33	569425.19	802.38	FG
376	934+07.75	91.84 RT	400+92.55	-25.00 LT	256268.38	569430.19	802.45	FG

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
377	934+02.76	91.97 RT	400+92.55	-20.00 LT	256263.38	569430.24	802.40	FG
378	933+95.76	92.16 RT	400+92.55	-13.00 LT	256256.38	569430.31	802.05	FL PNT
379	933+95.62	87.17 RT	400+87.55	-13.00 LT	256256.33	569425.31	801.98	FL PNT
380	934+02.62	86.97 RT	400+87.55	-20.00 LT	256263.33	569425.24	802.33	FG
381	934+02.58	85.57 RT	400+86.15	-20.00 LT	256263.32	569423.84	802.36	FG
382	934+18.92	64.52 RT	400+65.55	-36.91 LT	256280.03	569403.08	802.80	FG
383	934+23.57	64.00 RT	400+65.16	-41.57 LT	256284.69	569402.64	802.55	FG
384	934+24.92	64.00 RT	400+65.19	-42.92 LT	256286.04	569402.67	802.53	FG
385	934+24.92	57.00 RT	400+58.20	-43.11 LT	256286.16	569395.67	802.06	FL PNT
386	934+29.92	57.00 RT	400+58.33	-48.11 LT	256291.16	569395.76	802.09	FL PNT
387	934+29.92	64.00 RT	400+65.33	-47.92 LT	256291.04	569402.76	802.58	FG
388	934+35.92	64.00 RT	400+65.49	-53.92 LT	256297.04	569402.86	802.89	FG



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - HERDA PLACE NE	SHEET 65	E

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
350	934+24.92	1.52 RT	256287.15	569340.19	801.70	FL
351	934+29.92	0.23 RT	256292.17	569339.00	801.60	FL
352	934+29.92	11.64 RT	256291.97	569350.40	802.25	FL
353	934+24.92	10.30 RT	256286.99	569348.97	802.15	FL

N

934+75
934+50
934+25
934+00

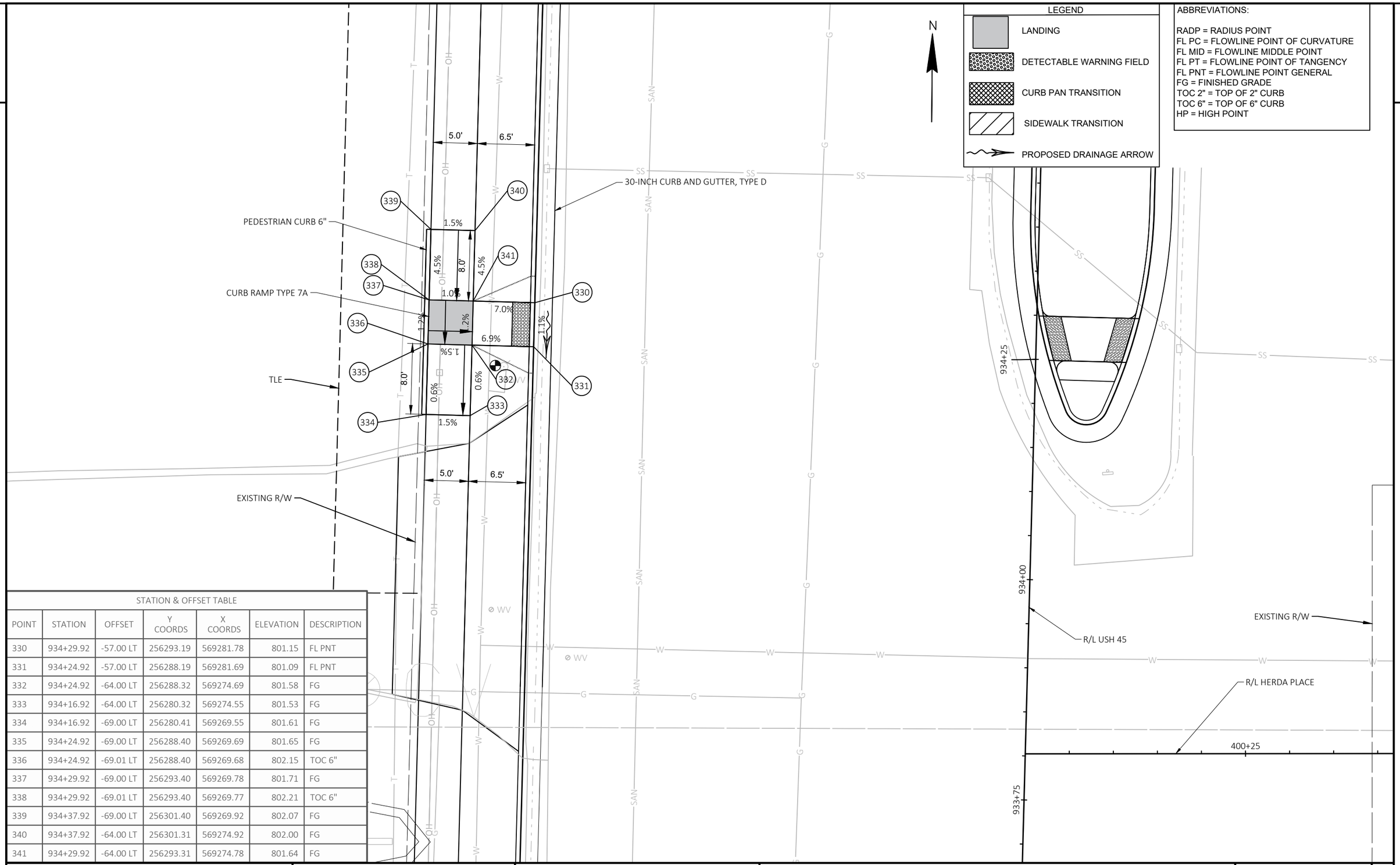
30-INCH CURB AND GUTTER, TYPE D
CURB RAMP TYPE 5
TLE
EXISTING R/W
PROPOSED R/W
R/L USH 45
R/L HERDA PLACE

5.7%
2.0%
5.1%
2.0%
4.5%
4.5%
7.0%
1.2%
1.1%
6.9%
1.5%
0.6%
0.6%

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - HERDA PLACE MEDIAN	SHEET 66	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Herda Place Median
PLOT DATE : 6/1/2023 11:15 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

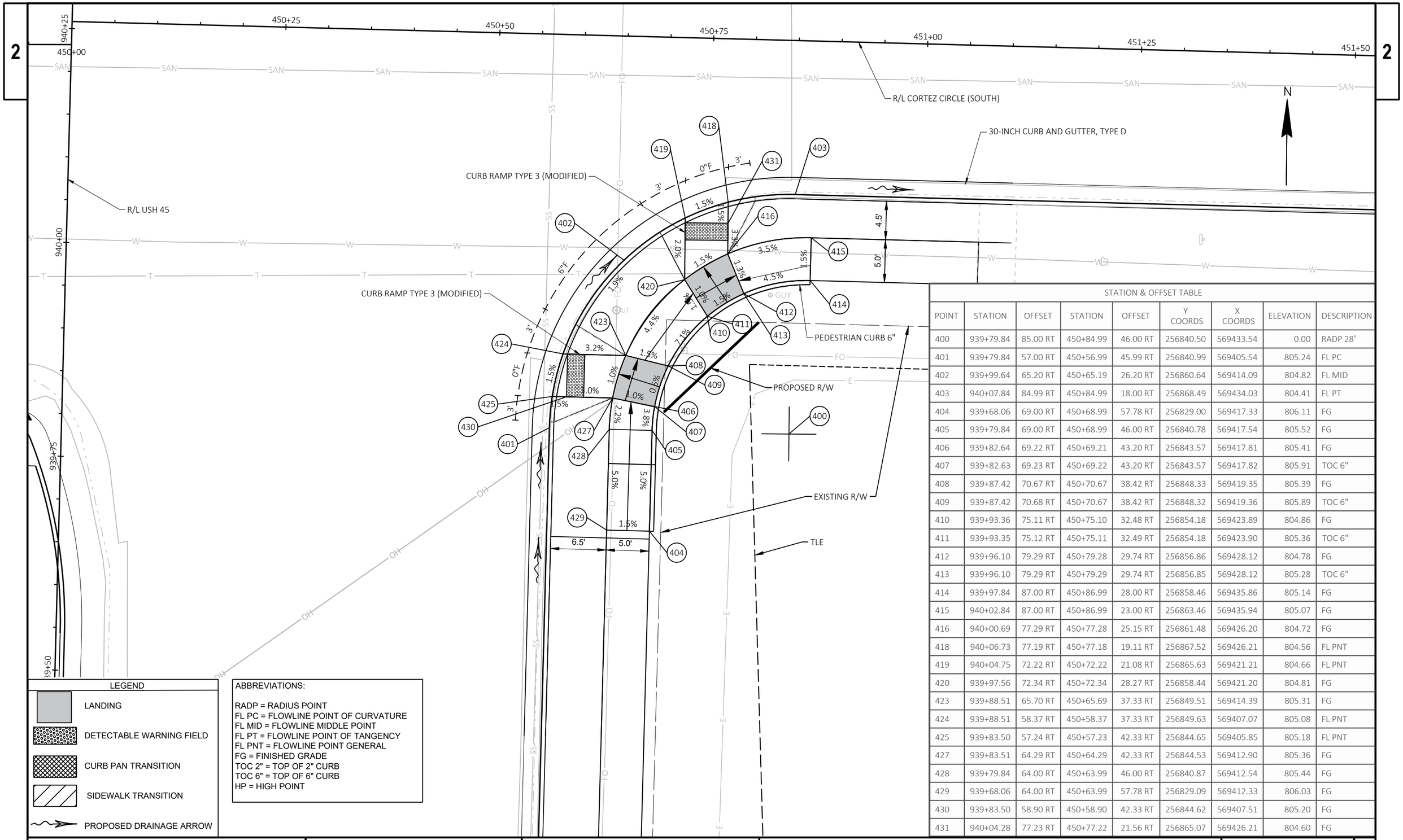
2



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
330	934+29.92	-57.00 LT	256293.19	569281.78	801.15	FL PNT
331	934+24.92	-57.00 LT	256288.19	569281.69	801.09	FL PNT
332	934+24.92	-64.00 LT	256288.32	569274.69	801.58	FG
333	934+16.92	-64.00 LT	256280.32	569274.55	801.53	FG
334	934+16.92	-69.00 LT	256280.41	569269.55	801.61	FG
335	934+24.92	-69.00 LT	256288.40	569269.69	801.65	FG
336	934+24.92	-69.01 LT	256288.40	569269.68	802.15	TOC 6"
337	934+29.92	-69.00 LT	256293.40	569269.78	801.71	FG
338	934+29.92	-69.01 LT	256293.40	569269.77	802.21	TOC 6"
339	934+37.92	-69.00 LT	256301.40	569269.92	802.07	FG
340	934+37.92	-64.00 LT	256301.31	569274.92	802.00	FG
341	934+29.92	-64.00 LT	256293.31	569274.78	801.64	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - HERDA PLACE NW	SHEET 67	E



STATION & OFFSET TABLE								
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
400	939+79.84	85.00 RT	450+84.99	46.00 RT	256840.50	569433.54	0.00	RADP 28'
401	939+79.84	57.00 RT	450+56.99	45.99 RT	256840.99	569405.54	805.24	FL PC
402	939+99.64	65.20 RT	450+65.19	26.20 RT	256860.64	569414.09	804.82	FL MID
403	940+07.84	84.99 RT	450+84.99	18.00 RT	256868.49	569434.03	804.41	FL PT
404	939+68.06	69.00 RT	450+68.99	57.78 RT	256829.00	569417.33	806.11	FG
405	939+79.84	69.00 RT	450+68.99	46.00 RT	256840.78	569417.54	805.52	FG
406	939+82.64	69.22 RT	450+69.21	43.20 RT	256843.57	569417.81	805.41	FG
407	939+82.63	69.23 RT	450+69.22	43.20 RT	256843.57	569417.82	805.91	TOC 6"
408	939+87.42	70.67 RT	450+70.67	38.42 RT	256848.33	569419.35	805.39	FG
409	939+87.42	70.68 RT	450+70.67	38.42 RT	256848.32	569419.36	805.89	TOC 6"
410	939+93.36	75.11 RT	450+75.10	32.48 RT	256854.18	569423.89	804.86	FG
411	939+93.35	75.12 RT	450+75.11	32.49 RT	256854.18	569423.90	805.36	TOC 6"
412	939+96.10	79.29 RT	450+79.28	29.74 RT	256856.86	569428.12	804.78	FG
413	939+96.10	79.29 RT	450+79.29	29.74 RT	256856.85	569428.12	805.28	TOC 6"
414	939+97.84	87.00 RT	450+86.99	28.00 RT	256858.46	569435.86	805.14	FG
415	940+02.84	87.00 RT	450+86.99	23.00 RT	256863.46	569435.94	805.07	FG
416	940+00.69	77.29 RT	450+77.28	25.15 RT	256861.48	569426.20	804.72	FG
418	940+06.73	77.19 RT	450+77.18	19.11 RT	256867.52	569426.21	804.56	FL PNT
419	940+04.75	72.22 RT	450+72.22	21.08 RT	256865.63	569421.21	804.66	FL PNT
420	939+97.56	72.34 RT	450+72.34	28.27 RT	256858.44	569421.20	804.81	FG
423	939+88.51	65.70 RT	450+65.69	37.33 RT	256849.51	569414.39	805.31	FG
424	939+88.51	58.37 RT	450+58.37	37.33 RT	256849.63	569407.07	805.08	FL PNT
425	939+83.50	57.24 RT	450+57.23	42.33 RT	256844.65	569405.85	805.18	FL PNT
427	939+83.51	64.29 RT	450+64.29	42.33 RT	256844.53	569412.90	805.36	FG
428	939+79.84	64.00 RT	450+63.99	46.00 RT	256840.87	569412.54	805.44	FG
429	939+68.06	64.00 RT	450+63.99	57.78 RT	256829.09	569412.33	806.03	FG
430	939+83.50	58.90 RT	450+58.90	42.33 RT	256844.62	569407.51	805.20	FG
431	940+04.28	77.23 RT	450+77.22	21.56 RT	256865.07	569426.21	804.60	FG

LEGEND

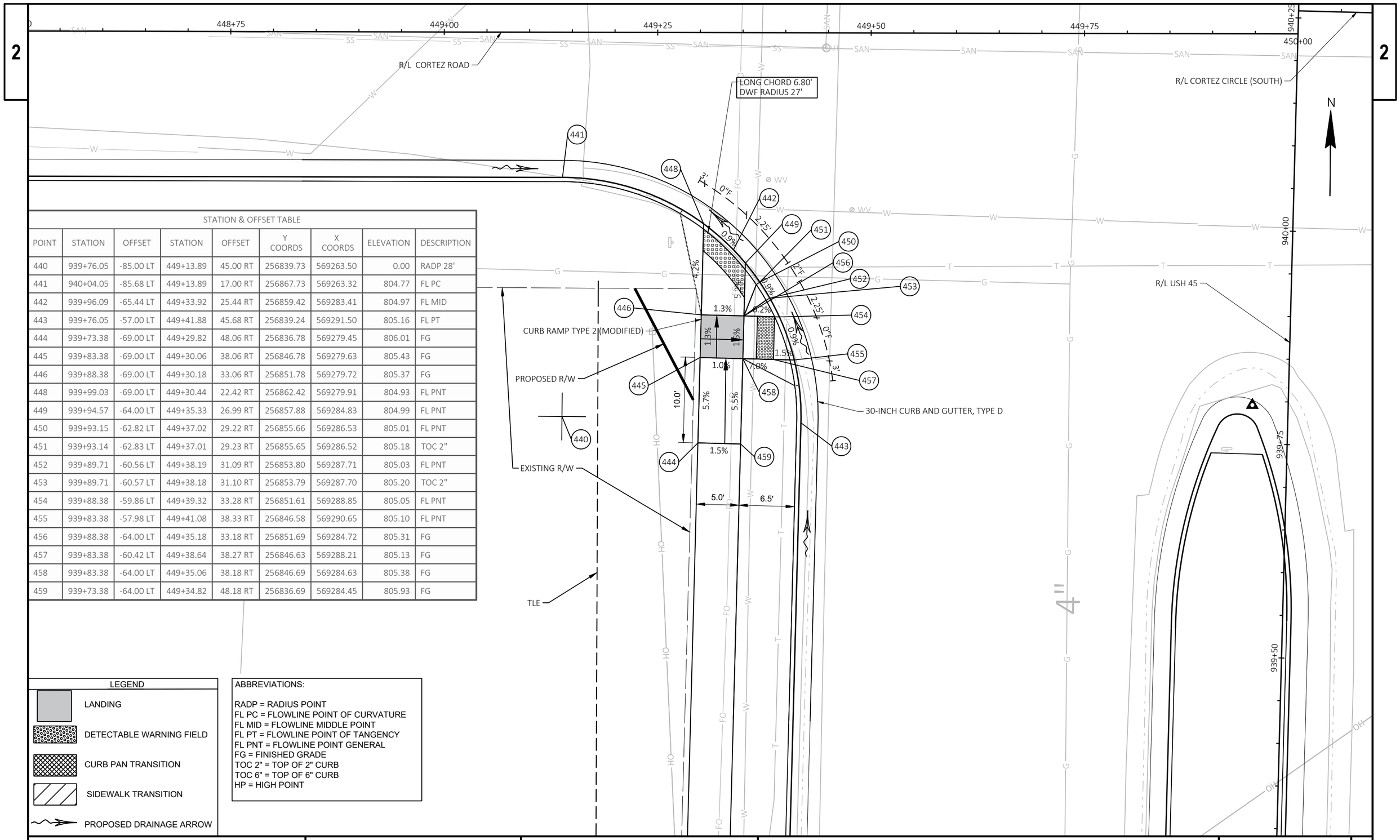
- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - CORTEZ CIRCLE (SOUTH) SE	SHEET 68	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Cortez Circle (South) SE
PLOT DATE : 6/1/2023 11:15 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE								
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
440	939+76.05	-85.00 LT	449+13.89	45.00 RT	256839.73	569263.50	0.00	RADP 28'
441	940+04.05	-85.68 LT	449+13.89	17.00 RT	256867.73	569263.32	804.77	FL PC
442	939+96.09	-65.44 LT	449+33.92	25.44 RT	256859.42	569283.41	804.97	FL MID
443	939+76.05	-57.00 LT	449+41.88	45.68 RT	256839.24	569291.50	805.16	FL PT
444	939+73.38	-69.00 LT	449+29.82	48.06 RT	256836.78	569279.45	806.01	FG
445	939+83.38	-69.00 LT	449+30.06	38.06 RT	256846.78	569279.63	805.43	FG
446	939+88.38	-69.00 LT	449+30.18	33.06 RT	256851.78	569279.72	805.37	FG
448	939+99.03	-69.00 LT	449+30.44	22.42 RT	256862.42	569279.91	804.93	FL PNT
449	939+94.57	-64.00 LT	449+35.33	26.99 RT	256857.88	569284.83	804.99	FL PNT
450	939+93.15	-62.82 LT	449+37.02	29.22 RT	256855.66	569286.53	805.01	FL PNT
451	939+93.14	-62.83 LT	449+37.01	29.23 RT	256855.65	569286.52	805.18	TOC 2"
452	939+89.71	-60.56 LT	449+38.19	31.09 RT	256853.80	569287.71	805.03	FL PNT
453	939+89.71	-60.57 LT	449+38.18	31.10 RT	256853.79	569287.70	805.20	TOC 2"
454	939+88.38	-59.86 LT	449+39.32	33.28 RT	256851.61	569288.85	805.05	FL PNT
455	939+83.38	-57.98 LT	449+41.08	38.33 RT	256846.58	569290.65	805.10	FL PNT
456	939+88.38	-64.00 LT	449+35.18	33.18 RT	256851.69	569284.72	805.31	FG
457	939+83.38	-60.42 LT	449+38.64	38.27 RT	256846.63	569288.21	805.13	FG
458	939+83.38	-64.00 LT	449+35.06	38.18 RT	256846.69	569284.63	805.38	FG
459	939+73.38	-64.00 LT	449+34.82	48.18 RT	256836.69	569284.45	805.93	FG

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - CORTEZ ROAD SW	SHEET 69 E

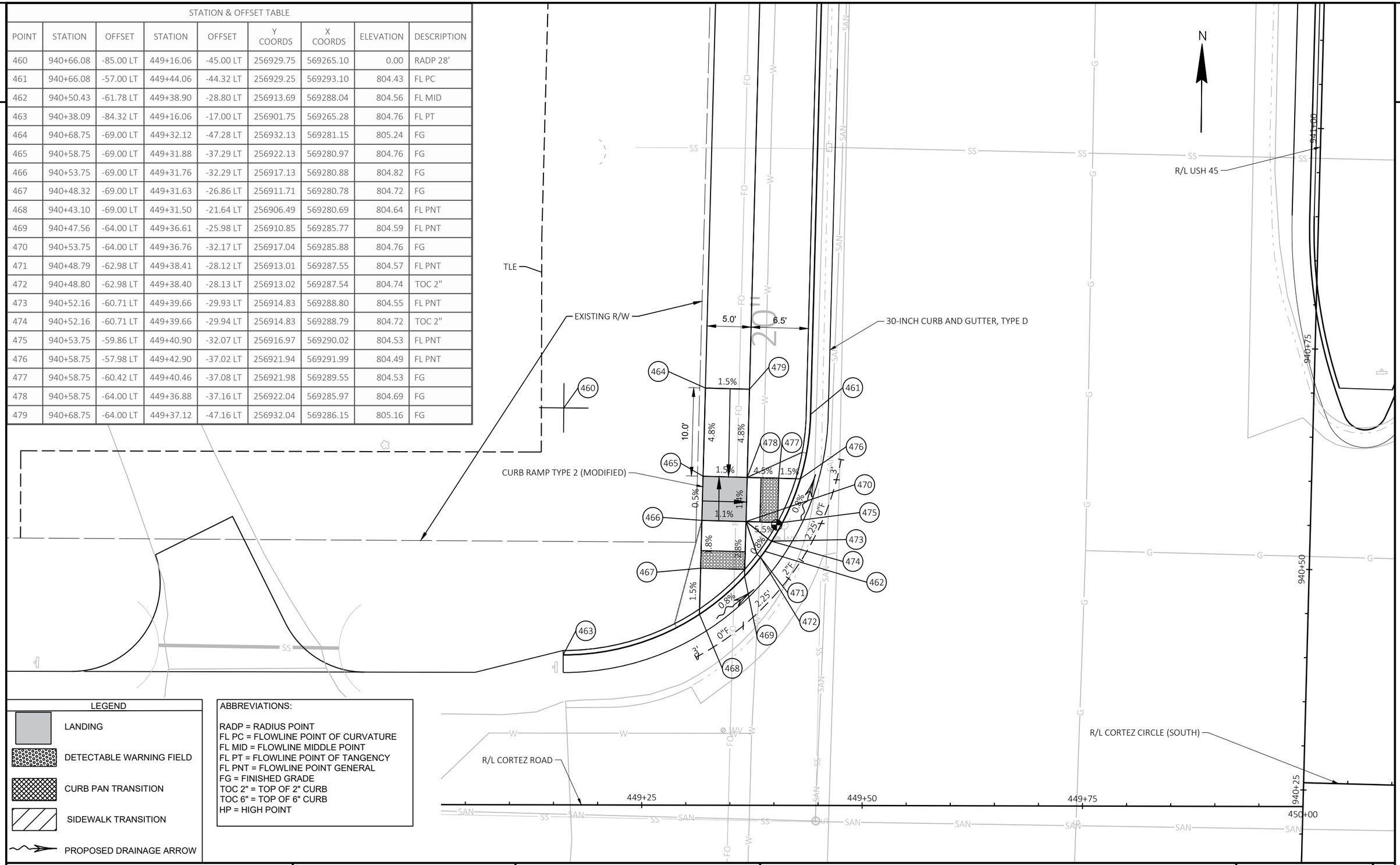
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Cortez Road SW
PLOT DATE : 6/1/2023 11:15 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
460	940+66.08	-85.00 LT	449+16.06	-45.00 LT	256929.75	569265.10	0.00	RADP 28'
461	940+66.08	-57.00 LT	449+44.06	-44.32 LT	256929.25	569293.10	804.43	FL PC
462	940+50.43	-61.78 LT	449+38.90	-28.80 LT	256913.69	569288.04	804.56	FL MID
463	940+38.09	-84.32 LT	449+16.06	-17.00 LT	256901.75	569265.28	804.76	FL PT
464	940+68.75	-69.00 LT	449+32.12	-47.28 LT	256932.13	569281.15	805.24	FG
465	940+58.75	-69.00 LT	449+31.88	-37.29 LT	256922.13	569280.97	804.76	FG
466	940+53.75	-69.00 LT	449+31.76	-32.29 LT	256917.13	569280.88	804.82	FG
467	940+48.32	-69.00 LT	449+31.63	-26.86 LT	256911.71	569280.78	804.72	FG
468	940+43.10	-69.00 LT	449+31.50	-21.64 LT	256906.49	569280.69	804.64	FL PNT
469	940+47.56	-64.00 LT	449+36.61	-25.98 LT	256910.85	569285.77	804.59	FL PNT
470	940+53.75	-64.00 LT	449+36.76	-32.17 LT	256917.04	569285.88	804.76	FG
471	940+48.79	-62.98 LT	449+38.41	-28.12 LT	256913.01	569287.55	804.57	FL PNT
472	940+48.80	-62.98 LT	449+38.40	-28.13 LT	256913.02	569287.54	804.74	TOC 2"
473	940+52.16	-60.71 LT	449+39.66	-29.93 LT	256914.83	569288.80	804.55	FL PNT
474	940+52.16	-60.71 LT	449+39.66	-29.94 LT	256914.83	569288.79	804.72	TOC 2"
475	940+53.75	-59.86 LT	449+40.90	-32.07 LT	256916.97	569290.02	804.53	FL PNT
476	940+58.75	-57.98 LT	449+42.90	-37.02 LT	256921.94	569291.99	804.49	FL PNT
477	940+58.75	-60.42 LT	449+40.46	-37.08 LT	256921.98	569289.55	804.53	FG
478	940+58.75	-64.00 LT	449+36.88	-37.16 LT	256922.04	569285.97	804.69	FG
479	940+68.75	-64.00 LT	449+37.12	-47.16 LT	256932.04	569286.15	805.16	FG



LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - CORTEZ ROAD NW	SHEET 70	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Cortez Road NW
PLOT DATE : 6/1/2023 11:16 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

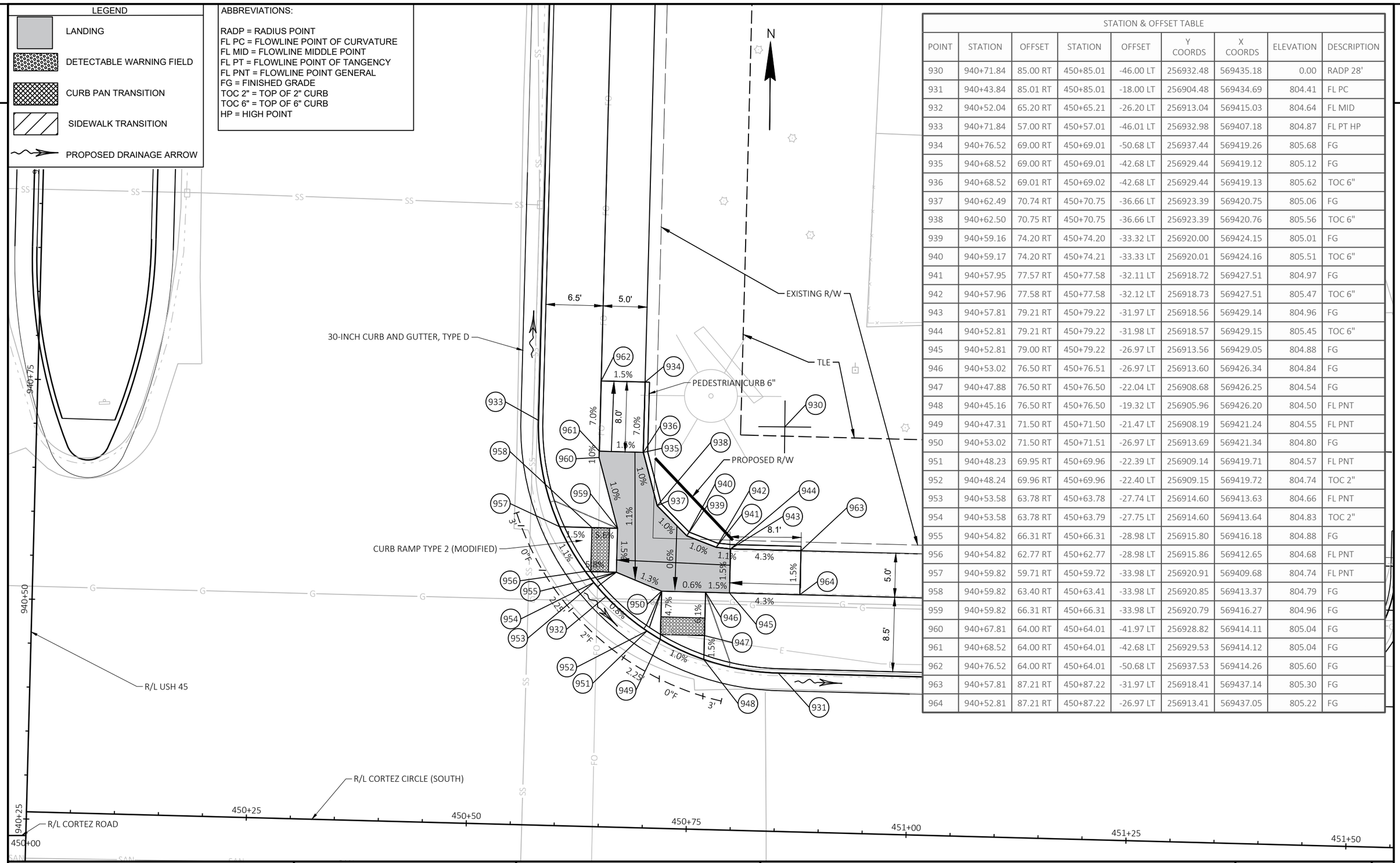
2

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT



STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
930	940+71.84	85.00 RT	450+85.01	-46.00 LT	256932.48	569435.18	0.00	RADP 28'
931	940+43.84	85.01 RT	450+85.01	-18.00 LT	256904.48	569434.69	804.41	FL PC
932	940+52.04	65.20 RT	450+65.21	-26.20 LT	256913.04	569415.03	804.64	FL MID
933	940+71.84	57.00 RT	450+57.01	-46.01 LT	256932.98	569407.18	804.87	FL PT HP
934	940+76.52	69.00 RT	450+69.01	-50.68 LT	256937.44	569419.26	805.68	FG
935	940+68.52	69.00 RT	450+69.01	-42.68 LT	256929.44	569419.12	805.12	FG
936	940+68.52	69.01 RT	450+69.02	-42.68 LT	256929.44	569419.13	805.62	TOC 6"
937	940+62.49	70.74 RT	450+70.75	-36.66 LT	256923.39	569420.75	805.06	FG
938	940+62.50	70.75 RT	450+70.75	-36.66 LT	256923.39	569420.76	805.56	TOC 6"
939	940+59.16	74.20 RT	450+74.20	-33.32 LT	256920.00	569424.15	805.01	FG
940	940+59.17	74.20 RT	450+74.21	-33.33 LT	256920.01	569424.16	805.51	TOC 6"
941	940+57.95	77.57 RT	450+77.58	-32.11 LT	256918.72	569427.51	804.97	FG
942	940+57.96	77.58 RT	450+77.58	-32.12 LT	256918.73	569427.51	805.47	TOC 6"
943	940+57.81	79.21 RT	450+79.22	-31.97 LT	256918.56	569429.14	804.96	FG
944	940+52.81	79.21 RT	450+79.22	-31.98 LT	256918.57	569429.15	805.45	TOC 6"
945	940+52.81	79.00 RT	450+79.22	-26.97 LT	256913.56	569429.05	804.88	FG
946	940+53.02	76.50 RT	450+76.51	-26.97 LT	256913.60	569426.34	804.84	FG
947	940+47.88	76.50 RT	450+76.50	-22.04 LT	256908.68	569426.25	804.54	FG
948	940+45.16	76.50 RT	450+76.50	-19.32 LT	256905.96	569426.20	804.50	FL PNT
949	940+47.31	71.50 RT	450+71.50	-21.47 LT	256908.19	569421.24	804.55	FL PNT
950	940+53.02	71.50 RT	450+71.51	-26.97 LT	256913.69	569421.34	804.80	FG
951	940+48.23	69.95 RT	450+69.96	-22.39 LT	256909.14	569419.71	804.57	FL PNT
952	940+48.24	69.96 RT	450+69.96	-22.40 LT	256909.15	569419.72	804.74	TOC 2"
953	940+53.58	63.78 RT	450+63.78	-27.74 LT	256914.60	569413.63	804.66	FL PNT
954	940+53.58	63.78 RT	450+63.79	-27.75 LT	256914.60	569413.64	804.83	TOC 2"
955	940+54.82	66.31 RT	450+66.31	-28.98 LT	256915.80	569416.18	804.88	FG
956	940+54.82	62.77 RT	450+62.77	-28.98 LT	256915.86	569412.65	804.68	FL PNT
957	940+59.82	59.71 RT	450+59.72	-33.98 LT	256920.91	569409.68	804.74	FL PNT
958	940+59.82	63.40 RT	450+63.41	-33.98 LT	256920.85	569413.37	804.79	FG
959	940+59.82	66.31 RT	450+66.31	-33.98 LT	256920.79	569416.27	804.96	FG
960	940+67.81	64.00 RT	450+64.01	-41.97 LT	256928.82	569414.11	805.04	FG
961	940+68.52	64.00 RT	450+64.01	-42.68 LT	256929.53	569414.12	805.04	FG
962	940+76.52	64.00 RT	450+64.01	-50.68 LT	256937.53	569414.26	805.60	FG
963	940+57.81	87.21 RT	450+87.22	-31.97 LT	256918.41	569437.14	805.30	FG
964	940+52.81	87.21 RT	450+87.22	-26.97 LT	256913.41	569437.05	805.22	FG

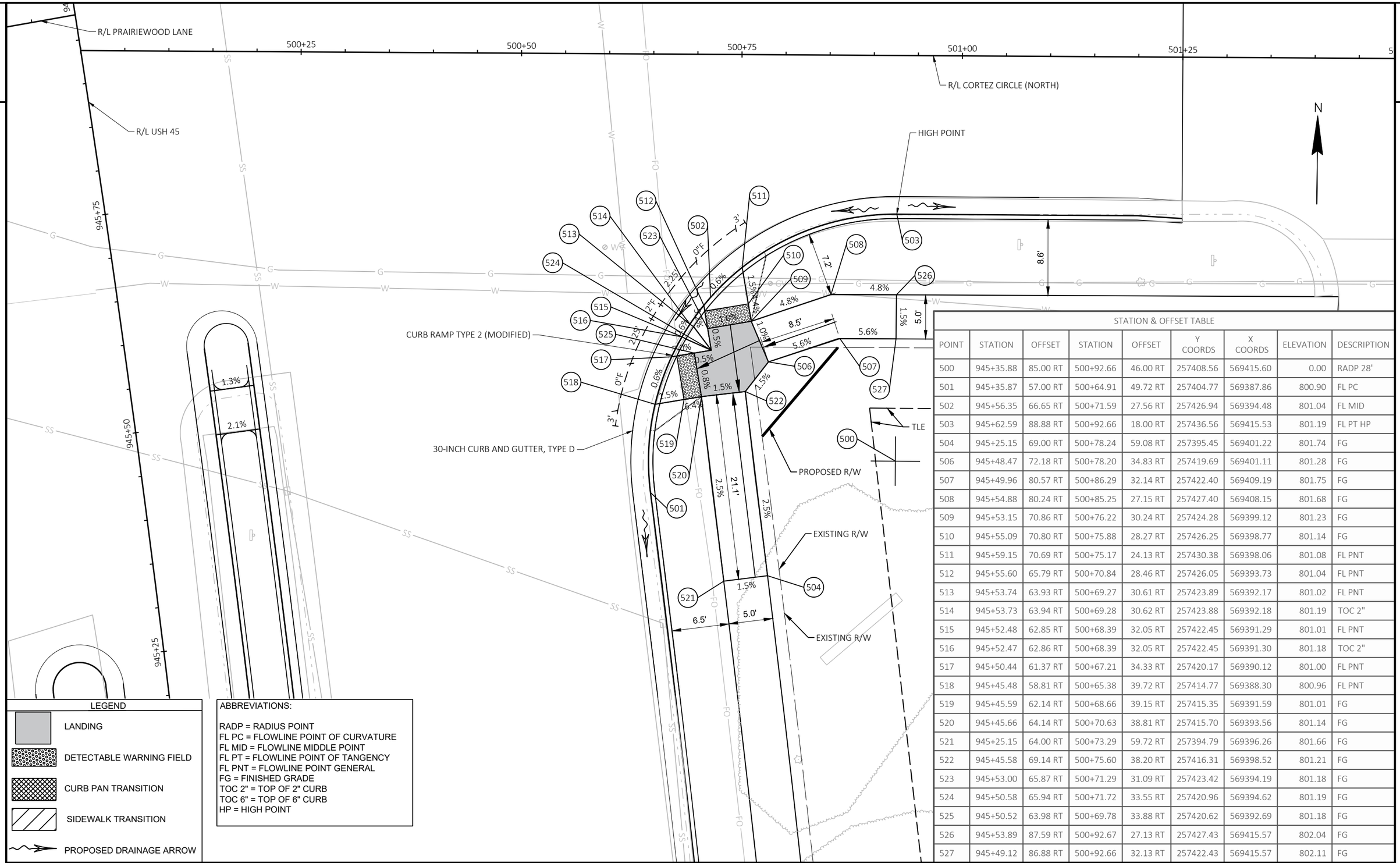
2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - CORTEZ CIRCLE (SOUTH) NE	SHEET 71	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Cortez Circle (South) NE

PLOT DATE : 6/1/2023 11:16 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



LEGEND
LANDING
DETECTABLE WARNING FIELD
CURB PAN TRANSITION
SIDEWALK TRANSITION
PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
500	945+35.88	85.00 RT	500+92.66	46.00 RT	257408.56	569415.60	0.00	RADP 28'
501	945+35.87	57.00 RT	500+64.91	49.72 RT	257404.77	569387.86	800.90	FL PC
502	945+56.35	66.65 RT	500+71.59	27.56 RT	257426.94	569394.48	801.04	FL MID
503	945+62.59	88.88 RT	500+92.66	18.00 RT	257436.56	569415.53	801.19	FL PT HP
504	945+25.15	69.00 RT	500+78.24	59.08 RT	257395.45	569401.22	801.74	FG
506	945+48.47	72.18 RT	500+78.20	34.83 RT	257419.69	569401.11	801.28	FG
507	945+49.96	80.57 RT	500+86.29	32.14 RT	257422.40	569409.19	801.75	FG
508	945+54.88	80.24 RT	500+85.25	27.15 RT	257427.40	569408.15	801.68	FG
509	945+53.15	70.86 RT	500+76.22	30.24 RT	257424.28	569399.12	801.23	FG
510	945+55.09	70.80 RT	500+75.88	28.27 RT	257426.25	569398.77	801.14	FG
511	945+59.15	70.69 RT	500+75.17	24.13 RT	257430.38	569398.06	801.08	FL PNT
512	945+55.60	65.79 RT	500+70.84	28.46 RT	257426.05	569393.73	801.04	FL PNT
513	945+53.74	63.93 RT	500+69.27	30.61 RT	257423.89	569392.17	801.02	FL PNT
514	945+53.73	63.94 RT	500+69.28	30.62 RT	257423.88	569392.18	801.19	TOC 2"
515	945+52.48	62.85 RT	500+68.39	32.05 RT	257422.45	569391.29	801.01	FL PNT
516	945+52.47	62.86 RT	500+68.39	32.05 RT	257422.45	569391.30	801.18	TOC 2"
517	945+50.44	61.37 RT	500+67.21	34.33 RT	257420.17	569390.12	801.00	FL PNT
518	945+45.48	58.81 RT	500+65.38	39.72 RT	257414.77	569388.30	800.96	FL PNT
519	945+45.59	62.14 RT	500+68.66	39.15 RT	257415.35	569391.59	801.01	FG
520	945+45.66	64.14 RT	500+70.63	38.81 RT	257415.70	569393.56	801.14	FG
521	945+25.15	64.00 RT	500+73.29	59.72 RT	257394.79	569396.26	801.66	FG
522	945+45.58	69.14 RT	500+75.60	38.20 RT	257416.31	569398.52	801.21	FG
523	945+53.00	65.87 RT	500+71.29	31.09 RT	257423.42	569394.19	801.18	FG
524	945+50.58	65.94 RT	500+71.72	33.55 RT	257420.96	569394.62	801.19	FG
525	945+50.52	63.98 RT	500+69.78	33.88 RT	257420.62	569392.69	801.18	FG
526	945+53.89	87.59 RT	500+92.67	27.13 RT	257427.43	569415.57	802.04	FG
527	945+49.12	86.88 RT	500+92.66	32.13 RT	257422.43	569415.57	802.11	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - CORTEZ CIRCLE (NORTH) SE	SHEET 72	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Cortez Circle (North) SE
PLOT DATE : 6/1/2023 11:16 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

N

R/L CORTEZ CIRCLE (NORTH)

R/L USH 45

R/L PRAIRIEWOOD LANE

946+00

945+75

945+50

945+25

499+75

499+50

499+25

500+25

500+50

500+75

STATION & OFFSET TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
595	945+48.56	9.00 RT	257410.88	569338.54	200.25	FL
596	945+53.54	9.00 RT	257415.83	569337.83	800.22	FL
597	945+53.53	14.00 RT	257416.54	569342.78	800.16	FL
598	945+48.56	14.00 RT	257411.59	569343.49	800.15	FL

596

597

595

598

CURB RAMP TYPE 5

18-INCH CURB AND GUTTER, TYPE D

30-INCH CURB AND GUTTER, TYPE D

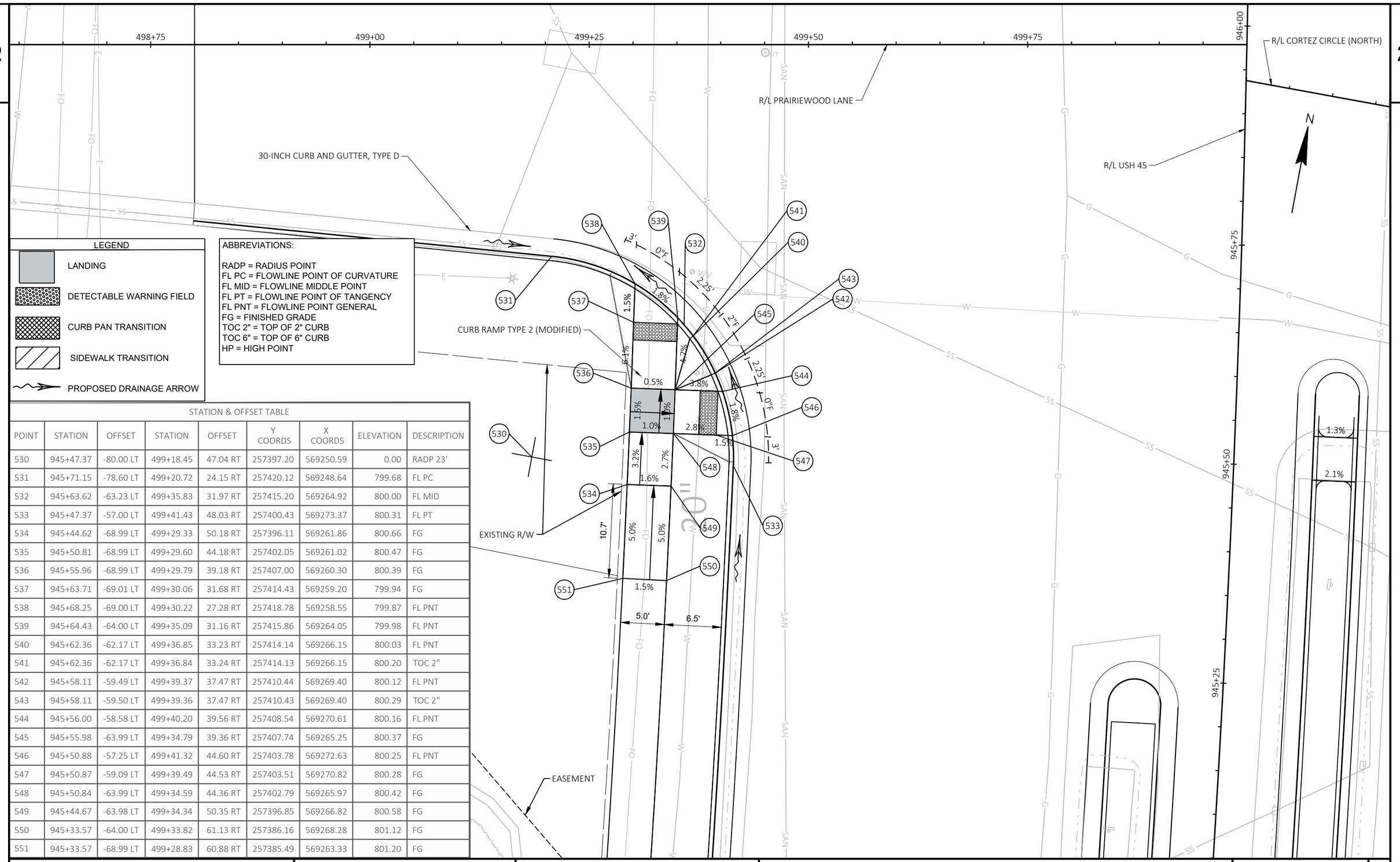
20"

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - CORTEZ CIRCLE (NORTH) MEDIAN	SHEET 73	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Cortez Circle (North) Median

PLOT DATE : 6/1/2023 11:17 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
530	945+47.37	-80.00 LT	499+18.45	47.04 RT	257397.20	569250.59	0.00	RADP 23'
531	945+71.15	-78.60 LT	499+20.72	24.15 RT	257420.12	569248.64	799.68	FL PC
532	945+63.62	-63.23 LT	499+35.83	31.97 RT	257415.20	569264.92	800.00	FL MID
533	945+47.37	-57.00 LT	499+41.43	48.03 RT	257400.43	569273.37	800.31	FL PT
534	945+44.62	-68.99 LT	499+29.33	50.18 RT	257396.11	569261.86	800.66	FG
535	945+50.81	-68.99 LT	499+29.60	44.18 RT	257402.05	569261.02	800.47	FG
536	945+55.96	-68.99 LT	499+29.79	39.18 RT	257407.00	569260.30	800.39	FG
537	945+63.71	-69.01 LT	499+30.06	31.68 RT	257414.43	569259.20	799.94	FG
538	945+68.25	-69.00 LT	499+30.22	27.28 RT	257418.78	569258.55	799.87	FL PNT
539	945+64.43	-64.00 LT	499+35.09	31.16 RT	257415.86	569264.05	799.98	FL PNT
540	945+62.36	-62.17 LT	499+36.85	33.23 RT	257414.14	569266.15	800.03	FL PNT
541	945+62.36	-62.17 LT	499+36.84	33.24 RT	257414.13	569266.15	800.20	TOC 2"
542	945+58.11	-59.49 LT	499+39.37	37.47 RT	257410.44	569269.40	800.12	FL PNT
543	945+58.11	-59.50 LT	499+39.36	37.47 RT	257410.43	569269.40	800.29	TOC 2"
544	945+56.00	-58.58 LT	499+40.20	39.56 RT	257408.54	569270.61	800.16	FL PNT
545	945+55.98	-63.99 LT	499+34.79	39.36 RT	257407.74	569265.25	800.37	FG
546	945+50.88	-57.25 LT	499+41.32	44.60 RT	257403.78	569272.63	800.25	FL PNT
547	945+50.87	-59.09 LT	499+39.49	44.53 RT	257403.51	569270.82	800.28	FG
548	945+50.84	-63.99 LT	499+34.59	44.36 RT	257402.79	569265.97	800.42	FG
549	945+44.67	-63.98 LT	499+34.34	50.35 RT	257396.85	569266.82	800.58	FG
550	945+33.57	-64.00 LT	499+33.82	61.13 RT	257386.16	569268.28	801.12	FG
551	945+33.57	-68.99 LT	499+28.83	60.88 RT	257385.49	569263.33	801.20	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PRAIREWOOD LANE SW	SHEET 74	E

2

STATION & OFFSET TABLE

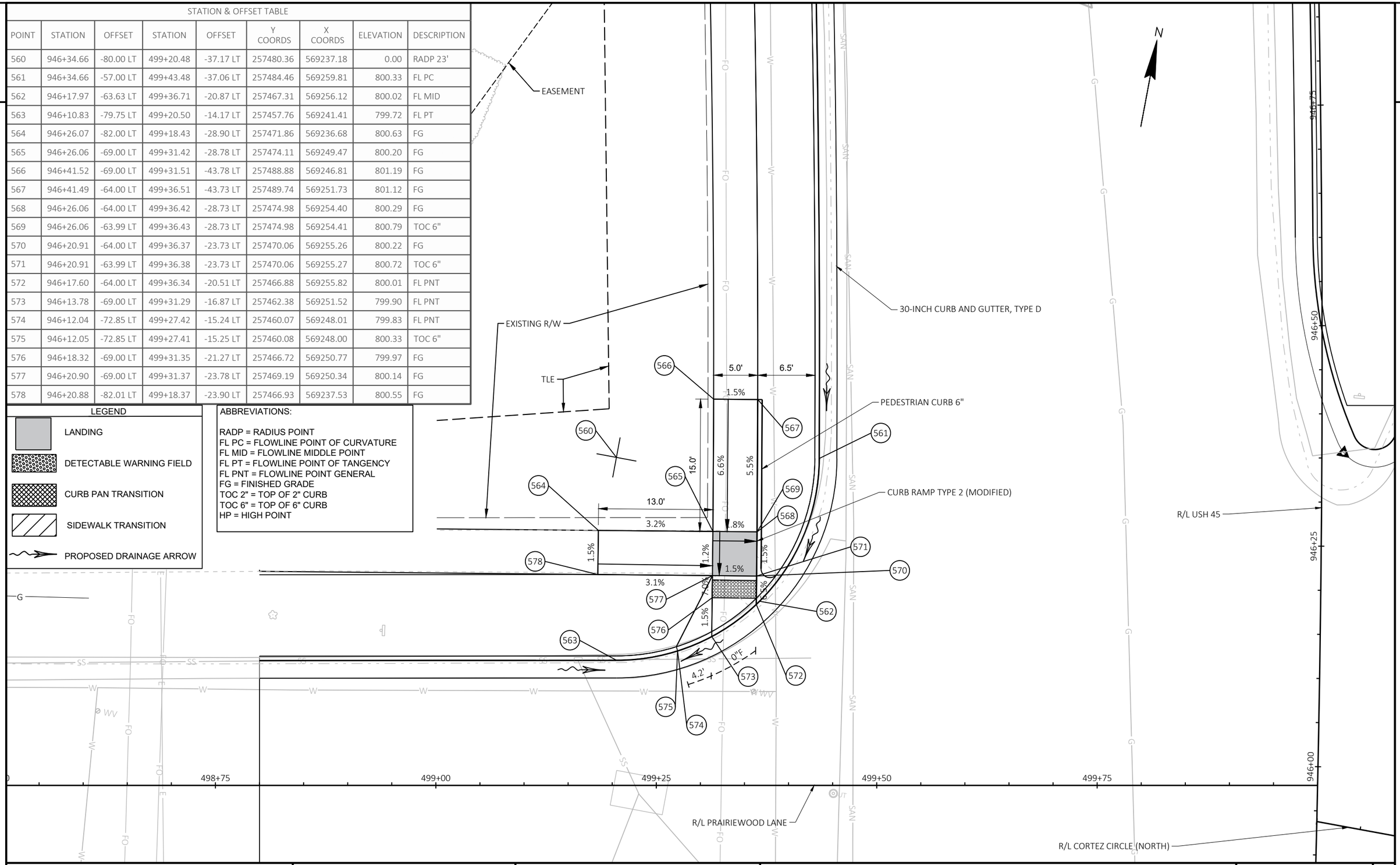
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
560	946+34.66	-80.00 LT	499+20.48	-37.17 LT	257480.36	569237.18	0.00	RADP 23'
561	946+34.66	-57.00 LT	499+43.48	-37.06 LT	257484.46	569259.81	800.33	FL PC
562	946+17.97	-63.63 LT	499+36.71	-20.87 LT	257467.31	569256.12	800.02	FL MID
563	946+10.83	-79.75 LT	499+20.50	-14.17 LT	257457.76	569241.41	799.72	FL PT
564	946+26.07	-82.00 LT	499+18.43	-28.90 LT	257471.86	569236.68	800.63	FG
565	946+26.06	-69.00 LT	499+31.42	-28.78 LT	257474.11	569249.47	800.20	FG
566	946+41.52	-69.00 LT	499+31.51	-43.78 LT	257488.88	569246.81	801.19	FG
567	946+41.49	-64.00 LT	499+36.51	-43.73 LT	257489.74	569251.73	801.12	FG
568	946+26.06	-64.00 LT	499+36.42	-28.73 LT	257474.98	569254.40	800.29	FG
569	946+26.06	-63.99 LT	499+36.43	-28.73 LT	257474.98	569254.41	800.79	TOC 6"
570	946+20.91	-64.00 LT	499+36.37	-23.73 LT	257470.06	569255.26	800.22	FG
571	946+20.91	-63.99 LT	499+36.38	-23.73 LT	257470.06	569255.27	800.72	TOC 6"
572	946+17.60	-64.00 LT	499+36.34	-20.51 LT	257466.88	569255.82	800.01	FL PNT
573	946+13.78	-69.00 LT	499+31.29	-16.87 LT	257462.38	569251.52	799.90	FL PNT
574	946+12.04	-72.85 LT	499+27.42	-15.24 LT	257460.07	569248.01	799.83	FL PNT
575	946+12.05	-72.85 LT	499+27.41	-15.25 LT	257460.08	569248.00	800.33	TOC 6"
576	946+18.32	-69.00 LT	499+31.35	-21.27 LT	257466.72	569250.77	799.97	FG
577	946+20.90	-69.00 LT	499+31.37	-23.78 LT	257469.19	569250.34	800.14	FG
578	946+20.88	-82.01 LT	499+18.37	-23.90 LT	257466.93	569237.53	800.55	FG

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PRAIREWOOD LANE NW	SHEET 75	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Praire Wood Lane NW

PLOT DATE : 6/1/2023 11:17 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
580	946+25.64	85.00 RT	500+78.50	-46.00 LT	257500.52	569401.19	0.00	RADP 28'
581	945+98.99	80.36 RT	500+78.50	-18.00 LT	257472.53	569401.27	801.07	FL PC
582	946+08.11	63.64 RT	500+60.47	-24.57 LT	257479.05	569383.23	801.14	FL MID
583	946+25.65	57.00 RT	500+50.91	-41.21 LT	257495.66	569373.62	801.22	FL PT
584	946+27.86	69.00 RT	500+62.34	-45.51 LT	257499.99	569385.04	802.07	FG
585	946+20.09	69.00 RT	500+63.71	-37.63 LT	257492.11	569386.43	801.63	FG
586	946+15.24	68.96 RT	500+64.55	-32.70 LT	257487.18	569387.28	801.58	FG
587	946+08.45	68.99 RT	500+65.70	-25.80 LT	257480.29	569388.45	801.19	FG
588	946+03.41	69.00 RT	500+66.55	-20.68 LT	257475.17	569389.32	801.12	FL PNT
589	946+07.70	64.00 RT	500+60.90	-24.22 LT	257478.70	569383.65	801.14	FL PNT
590	946+15.23	64.00 RT	500+59.62	-31.85 LT	257486.33	569382.35	801.53	FG
591	946+20.09	64.00 RT	500+58.78	-36.78 LT	257491.25	569381.50	801.58	FG
592	946+27.88	64.00 RT	500+57.41	-44.66 LT	257499.13	569380.11	802.00	FG

2

30-INCH CURB AND GUTTER, TYPE D

EXISTING R/W

TLE

CURB RAMP TYPE 2 (MODIFIED)

6.5'
5.0'
8.0'
1.5%
5.3%
5.6%
1.0%
1.0%
1.0%
1.0%
5.0%
5.5%
1.5%
0.4%
3'
0"F
3'

584 592 583 580 585 591 586 590 587 582 589 588 581

N

946+25
946+00
500+25
500+50
500+75
501+00
501+25

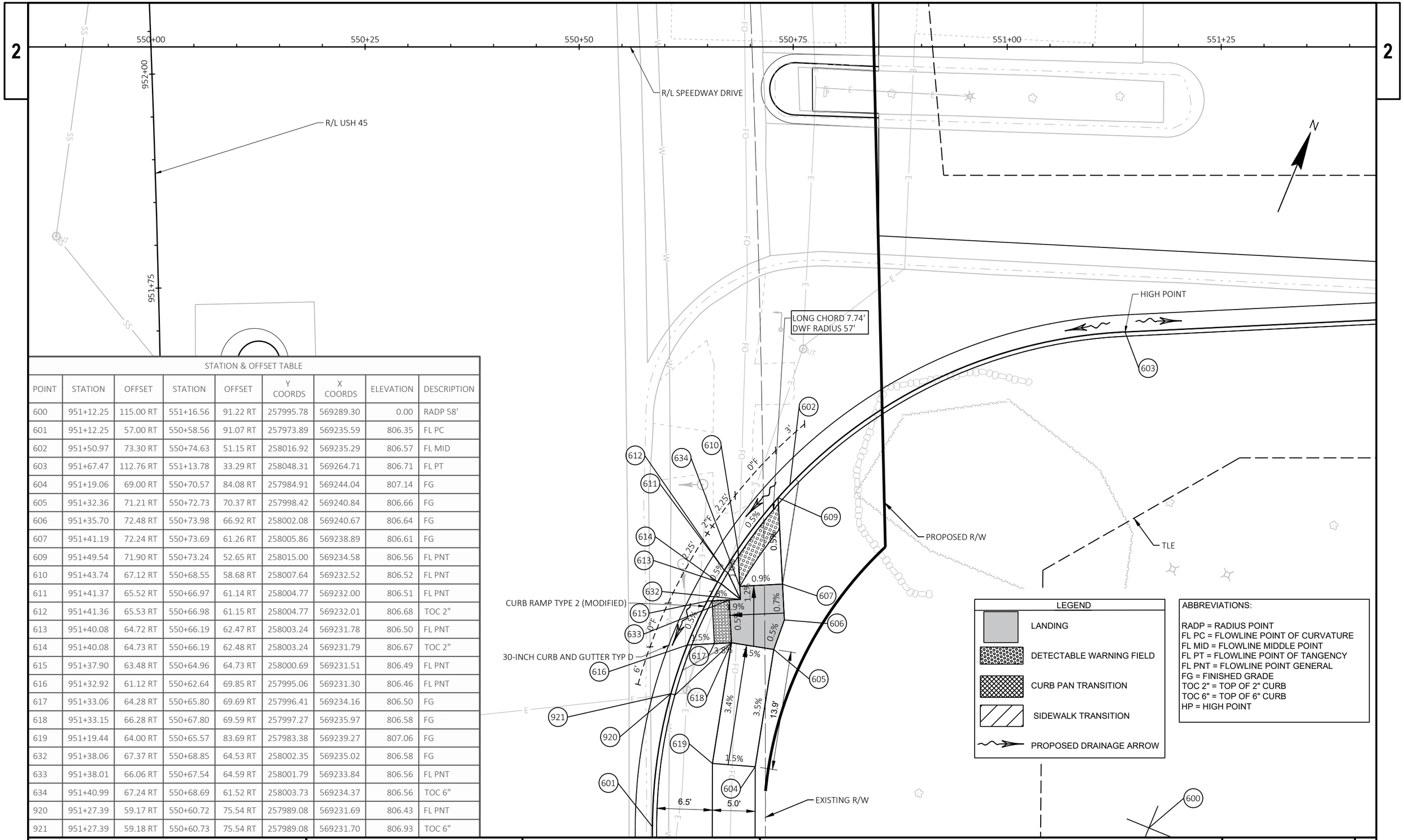
R/L USH 45
R/L PRAIRIEWOOD LANE
R/L CORTEZ CIRCLE (NORTH)

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - CORTEZ CIRCLE (NORTH) NE	SHEET 76	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Cortez Circle (North) NE

PLOT DATE : 6/1/2023 11:18 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
600	951+12.25	115.00 RT	551+16.56	91.22 RT	257995.78	569289.30	0.00	RADP 58'
601	951+12.25	57.00 RT	550+58.56	91.07 RT	257973.89	569235.59	806.35	FL PC
602	951+50.97	73.30 RT	550+74.63	51.15 RT	258016.92	569235.29	806.57	FL MID
603	951+67.47	112.76 RT	551+13.78	33.29 RT	258048.31	569264.71	806.71	FL PT
604	951+19.06	69.00 RT	550+70.57	84.08 RT	257984.91	569244.04	807.14	FG
605	951+32.36	71.21 RT	550+72.73	70.37 RT	257998.42	569240.84	806.66	FG
606	951+35.70	72.48 RT	550+73.98	66.92 RT	258002.08	569240.67	806.64	FG
607	951+41.19	72.24 RT	550+73.69	61.26 RT	258005.86	569238.89	806.61	FG
609	951+49.54	71.90 RT	550+73.24	52.65 RT	258015.00	569234.58	806.56	FL PNT
610	951+43.74	67.12 RT	550+68.55	58.68 RT	258007.64	569232.52	806.52	FL PNT
611	951+41.37	65.52 RT	550+66.97	61.14 RT	258004.77	569232.00	806.51	FL PNT
612	951+41.36	65.53 RT	550+66.98	61.15 RT	258004.77	569232.01	806.68	TOC 2"
613	951+40.08	64.72 RT	550+66.19	62.47 RT	258003.24	569231.78	806.50	FL PNT
614	951+40.08	64.73 RT	550+66.19	62.48 RT	258003.24	569231.79	806.67	TOC 2"
615	951+37.90	63.48 RT	550+64.96	64.73 RT	258000.69	569231.51	806.49	FL PNT
616	951+32.92	61.12 RT	550+62.64	69.85 RT	257995.06	569231.30	806.46	FL PNT
617	951+33.06	64.28 RT	550+65.80	69.69 RT	257996.41	569234.16	806.50	FG
618	951+33.15	66.28 RT	550+67.80	69.59 RT	257997.27	569235.97	806.58	FG
619	951+19.44	64.00 RT	550+65.57	83.69 RT	257983.38	569239.27	807.06	FG
632	951+38.06	67.37 RT	550+68.85	64.53 RT	258002.35	569235.02	806.58	FG
633	951+38.01	66.06 RT	550+67.54	64.59 RT	258001.79	569233.84	806.56	FL PNT
634	951+40.99	67.24 RT	550+68.69	61.52 RT	258003.73	569234.37	806.56	TOC 6"
920	951+27.39	59.17 RT	550+60.72	75.54 RT	257989.08	569231.69	806.43	FL PNT
921	951+27.39	59.18 RT	550+60.73	75.54 RT	257989.08	569231.70	806.93	TOC 6"

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SPEEDWAY DRIVE SE	SHEET 77	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Speedway Drive SE

PLOT DATE : 6/1/2023 11:29 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE								
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
966	951+35.90	14.00 RT	550+15.50	67.16 RT	257979.65	569186.67	805.46	FL
967	951+35.89	9.00 RT	550+10.50	67.21 RT	257977.70	569182.07	805.74	FL
968	951+40.87	9.00 RT	550+10.46	62.21 RT	257982.31	569180.13	805.72	FL
969	951+41.89	-7.01 LT	549+94.43	61.35 RT	257977.02	569164.98	805.13	FL
970	951+36.87	-7.00 LT	549+94.49	66.35 RT	257972.41	569166.93	805.14	FL
971	951+36.85	-13.00 LT	549+88.49	66.42 RT	257970.07	569161.41	805.23	FL
972	951+41.88	-13.00 LT	549+88.45	61.42 RT	257974.68	569159.47	805.26	FL
973	951+40.87	14.00 RT	550+15.46	62.16 RT	257984.26	569184.73	805.45	FL

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

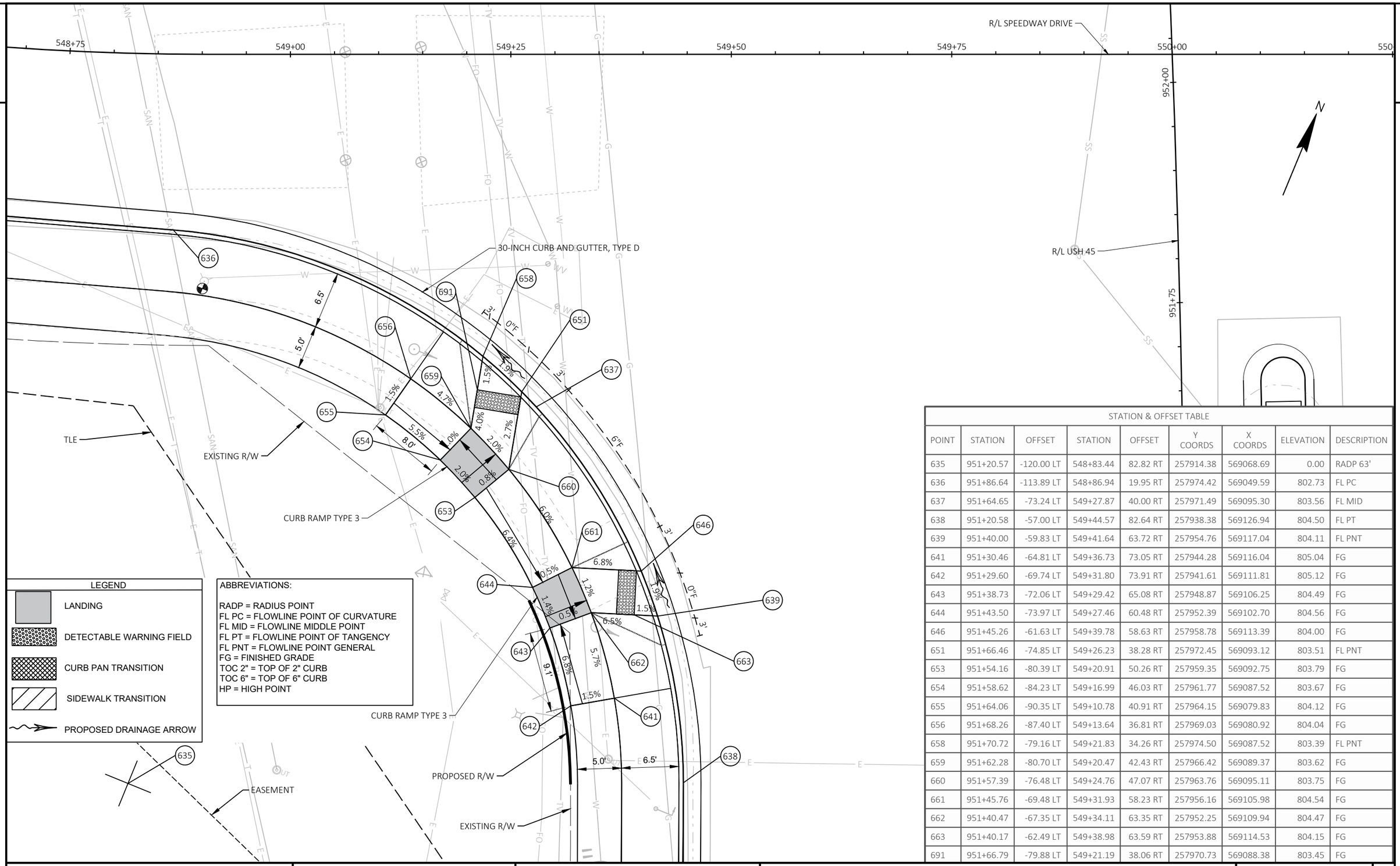
RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

549+25 549+50 549+75 550+00 550+25 550+50 550+75

952+00 951+75 951+50 951+25

R/L SPEEDWAY DRIVE
R/L USH 45
EXISTING R/W
PROPOSED R/W
CURB RAMP TYPE 5
30-INCH CURB AND GUTTER, TYPE D
18-INCH CURB AND GUTTER, TYPE D
4.0%
2.7%
6.8%
6.5%
2.1%
1.5%
0.5%
5.5%
3.4%
3.5%
1.0%

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SPEEDWAY DRIVE MEDIAN S	SHEET 78	E



STATION & OFFSET TABLE

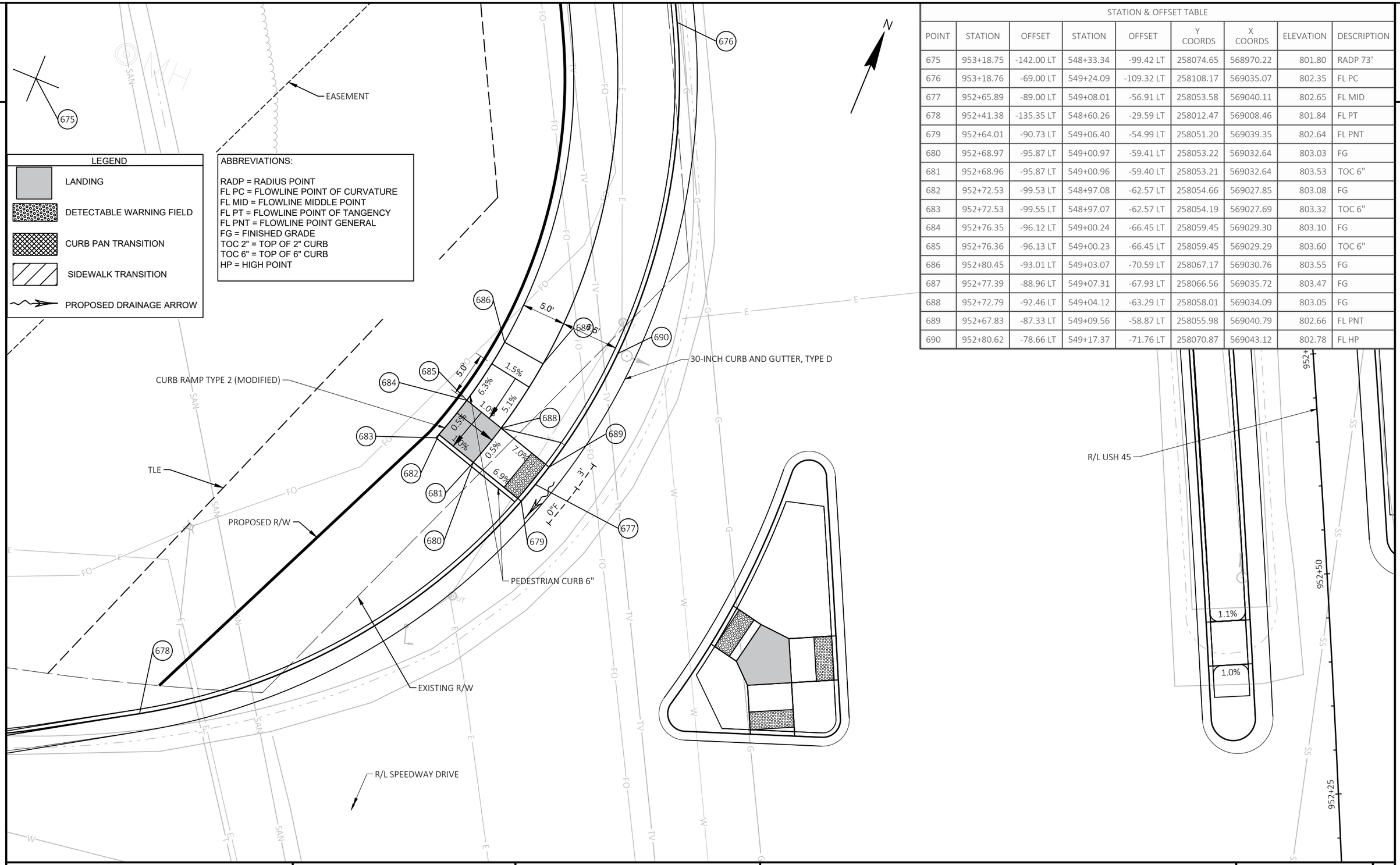
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
635	951+20.57	-120.00 LT	548+83.44	82.82 RT	257914.38	569068.69	0.00	RADP 63'
636	951+86.64	-113.89 LT	548+86.94	19.95 RT	257974.42	569049.59	802.73	FL PC
637	951+64.65	-73.24 LT	549+27.87	40.00 RT	257971.49	569095.30	803.56	FL MID
638	951+20.58	-57.00 LT	549+44.57	82.64 RT	257938.38	569126.94	804.50	FL PT
639	951+40.00	-59.83 LT	549+41.64	63.72 RT	257954.76	569117.04	804.11	FL PNT
641	951+30.46	-64.81 LT	549+36.73	73.05 RT	257944.28	569116.04	805.04	FG
642	951+29.60	-69.74 LT	549+31.80	73.91 RT	257941.61	569111.81	805.12	FG
643	951+38.73	-72.06 LT	549+29.42	65.08 RT	257948.87	569106.25	804.49	FG
644	951+43.50	-73.97 LT	549+27.46	60.48 RT	257952.39	569102.70	804.56	FG
646	951+45.26	-61.63 LT	549+39.78	58.63 RT	257958.78	569113.39	804.00	FG
651	951+66.46	-74.85 LT	549+26.23	38.28 RT	257972.45	569093.12	803.51	FL PNT
653	951+54.16	-80.39 LT	549+20.91	50.26 RT	257959.35	569092.75	803.79	FG
654	951+58.62	-84.23 LT	549+16.99	46.03 RT	257961.77	569087.52	803.67	FG
655	951+64.06	-90.35 LT	549+10.78	40.91 RT	257964.15	569079.83	804.12	FG
656	951+68.26	-87.40 LT	549+13.64	36.81 RT	257969.03	569080.92	804.04	FG
658	951+70.72	-79.16 LT	549+21.83	34.26 RT	257974.50	569087.52	803.39	FL PNT
659	951+62.28	-80.70 LT	549+20.47	42.43 RT	257966.42	569089.37	803.62	FG
660	951+57.39	-76.48 LT	549+24.76	47.07 RT	257963.76	569095.11	803.75	FG
661	951+45.76	-69.48 LT	549+31.93	58.23 RT	257956.16	569105.98	804.54	FG
662	951+40.47	-67.35 LT	549+34.11	63.35 RT	257952.25	569109.94	804.47	FG
663	951+40.17	-62.49 LT	549+38.98	63.59 RT	257953.88	569114.53	804.15	FG
691	951+66.79	-79.88 LT	549+21.19	38.06 RT	257970.73	569088.38	803.45	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SPEEDWAY DRIVE SW	SHEET 79	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Speedway Drive SW

PLOT DATE : 6/1/2023 11:26 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



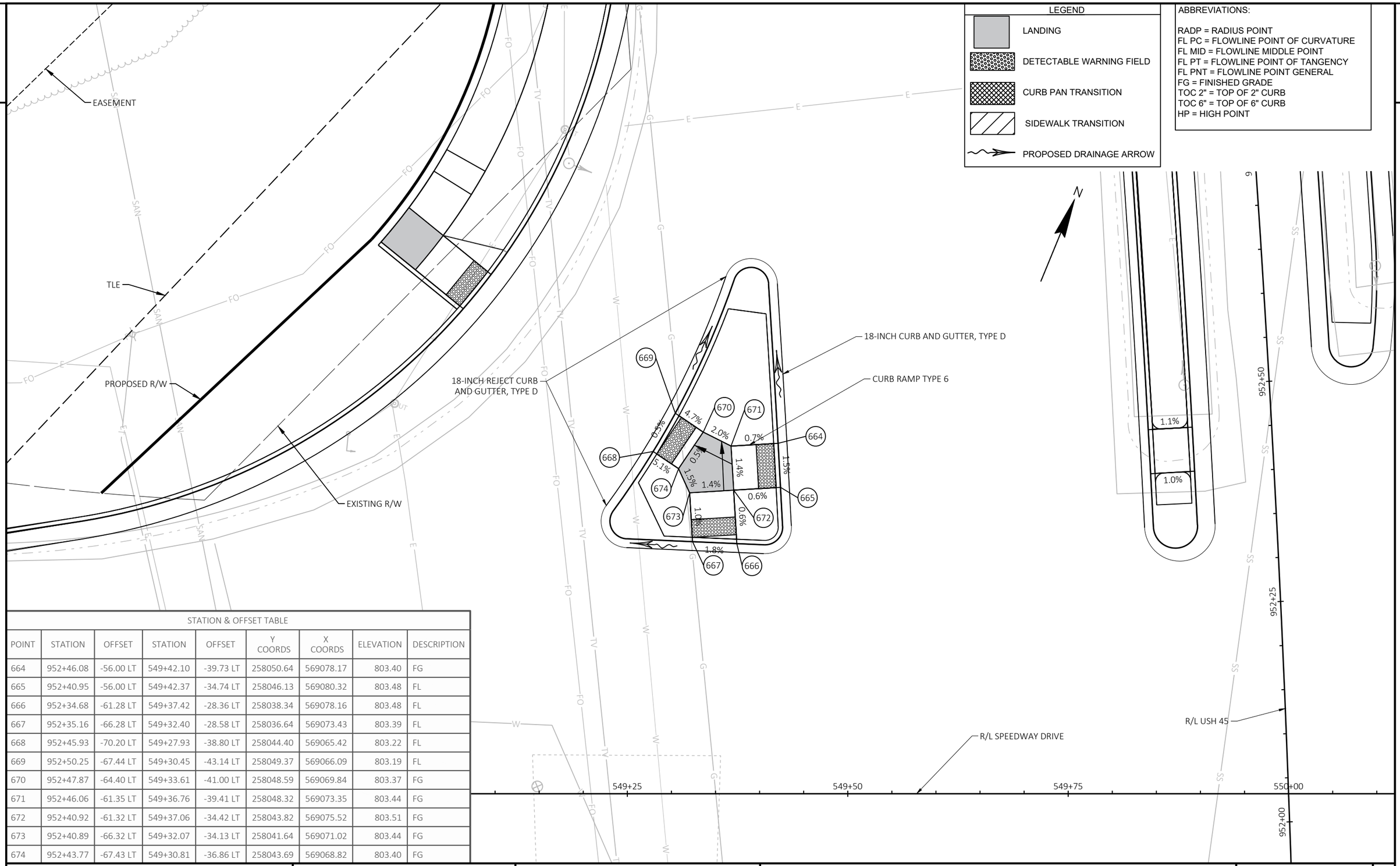
STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
675	953+18.75	-142.00 LT	548+33.34	-99.42 LT	258074.65	568970.22	801.80	RADP 73'
676	953+18.76	-69.00 LT	549+24.09	-109.32 LT	258108.17	569035.07	802.35	FL PC
677	952+65.89	-89.00 LT	549+08.01	-56.91 LT	258053.58	569040.11	802.65	FL MID
678	952+41.38	-135.35 LT	548+60.26	-29.59 LT	258012.47	569008.46	801.84	FL PT
679	952+64.01	-90.73 LT	549+06.40	-54.99 LT	258051.20	569039.35	802.64	FL PNT
680	952+68.97	-95.87 LT	549+00.97	-59.41 LT	258053.22	569032.64	803.03	FG
681	952+68.96	-95.87 LT	549+00.96	-59.40 LT	258053.21	569032.64	803.53	TOC 6"
682	952+72.53	-99.53 LT	548+97.08	-62.57 LT	258054.66	569027.85	803.08	FG
683	952+72.53	-99.55 LT	548+97.07	-62.57 LT	258054.19	569027.69	803.32	TOC 6"
684	952+76.35	-96.12 LT	549+00.24	-66.45 LT	258059.45	569029.30	803.10	FG
685	952+76.36	-96.13 LT	549+00.23	-66.45 LT	258059.45	569029.29	803.60	TOC 6"
686	952+80.45	-93.01 LT	549+03.07	-70.59 LT	258067.17	569030.76	803.55	FG
687	952+77.39	-88.96 LT	549+07.31	-67.93 LT	258066.56	569035.72	803.47	FG
688	952+72.79	-92.46 LT	549+04.12	-63.29 LT	258058.01	569034.09	803.05	FG
689	952+67.83	-87.33 LT	549+09.56	-58.87 LT	258055.98	569040.79	802.66	FL PNT
690	952+80.62	-78.66 LT	549+17.37	-71.76 LT	258070.87	569043.12	802.78	FL HP

2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SPEEDWAY DRIVE NW	SHEET 80	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Speedway Drive NW
PLOT DATE : 6/1/2023 11:19 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
664	952+46.08	-56.00 LT	549+42.10	-39.73 LT	258050.64	569078.17	803.40	FG
665	952+40.95	-56.00 LT	549+42.37	-34.74 LT	258046.13	569080.32	803.48	FL
666	952+34.68	-61.28 LT	549+37.42	-28.36 LT	258038.34	569078.16	803.48	FL
667	952+35.16	-66.28 LT	549+32.40	-28.58 LT	258036.64	569073.43	803.39	FL
668	952+45.93	-70.20 LT	549+27.93	-38.80 LT	258044.40	569065.42	803.22	FL
669	952+50.25	-67.44 LT	549+30.45	-43.14 LT	258049.37	569066.09	803.19	FL
670	952+47.87	-64.40 LT	549+33.61	-41.00 LT	258048.59	569069.84	803.37	FG
671	952+46.06	-61.35 LT	549+36.76	-39.41 LT	258048.32	569073.35	803.44	FG
672	952+40.92	-61.32 LT	549+37.06	-34.42 LT	258043.82	569075.52	803.51	FG
673	952+40.89	-66.32 LT	549+32.07	-34.13 LT	258041.64	569071.02	803.44	FG
674	952+43.77	-67.43 LT	549+30.81	-36.86 LT	258043.69	569068.82	803.40	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SPEEDWAY DRIVE ISLAND	SHEET 81	E

2

STATION & OFFSET TABLE								
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
695	952+40.25	-14.00 LT	549+84.35	-36.28 LT	258063.50	569118.56	804.29	FL
696	952+45.28	-14.00 LT	549+84.08	-41.28 LT	258068.02	569116.41	804.22	FL
697	952+45.29	-9.00 LT	549+89.07	-41.56 LT	258070.18	569120.92	804.28	FL
698	952+40.27	-9.00 LT	549+89.34	-36.57 LT	258065.66	569123.07	804.34	FL

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

EXISTING R/W

30-INCH CURB AND GUTTER, TYPE D

18-INCH CURB AND GUTTER, TYPE D

CURB RAMP TYPE 5

696 1.1% 697 -1.6% 0.9% 1.0% 698 695

953+00

952+75

952+50

R/L USH 45

R/L SPEEDWAY DRIVE

PROPOSED R/W

EXISTING R/W

3.9% 3.9% 1.5% 6.6% 1.5% 5.9% 1.1% 0.8% 3.2% 3.7% 1.5% 1.5% 1.5% 6.8% 5.3% 1.3%

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SPEEDWAY DRIVE MEDIAN N	SHEET 82	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Speedway Drive Median N

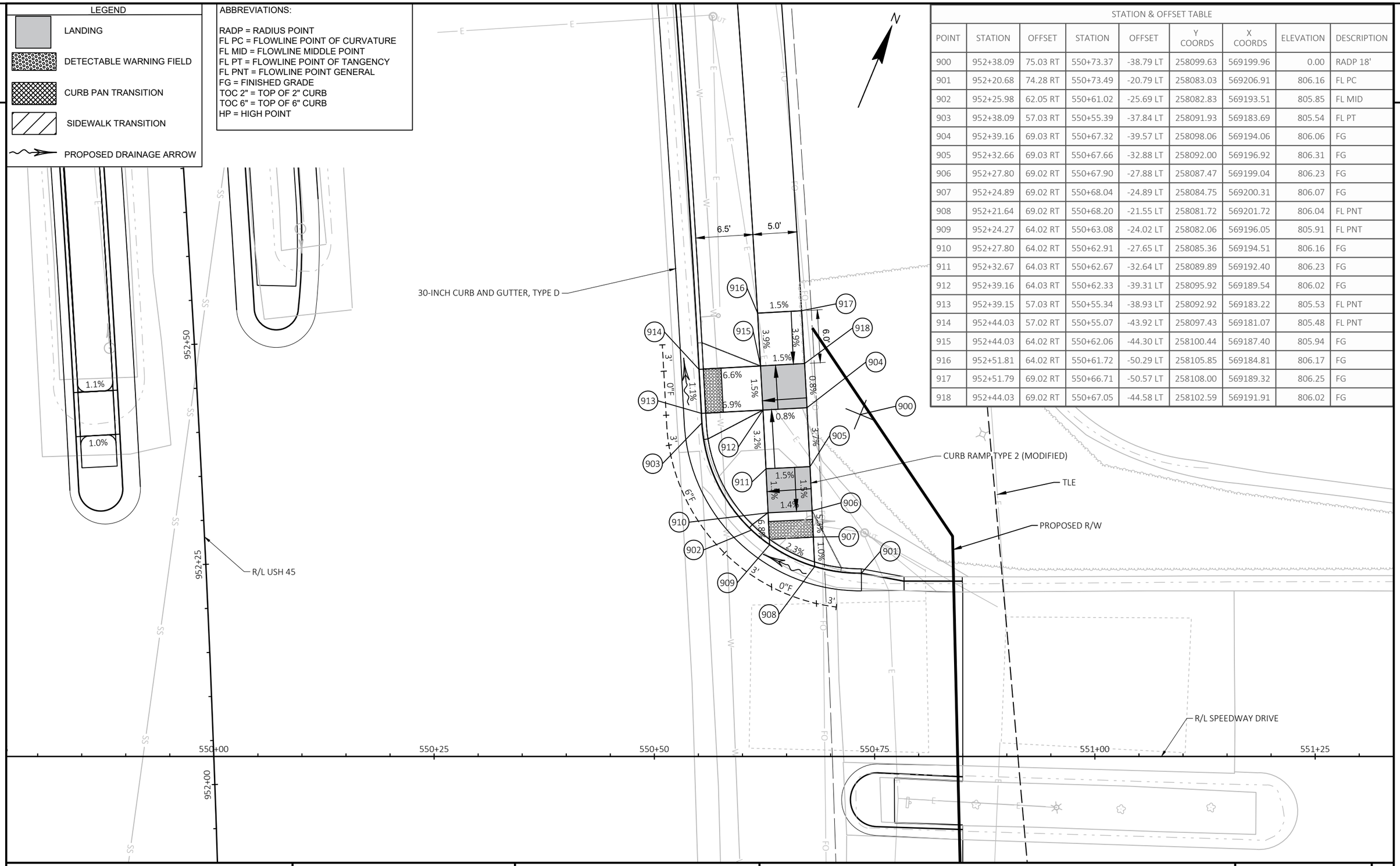
PLOT DATE : 6/1/2023 11:20 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

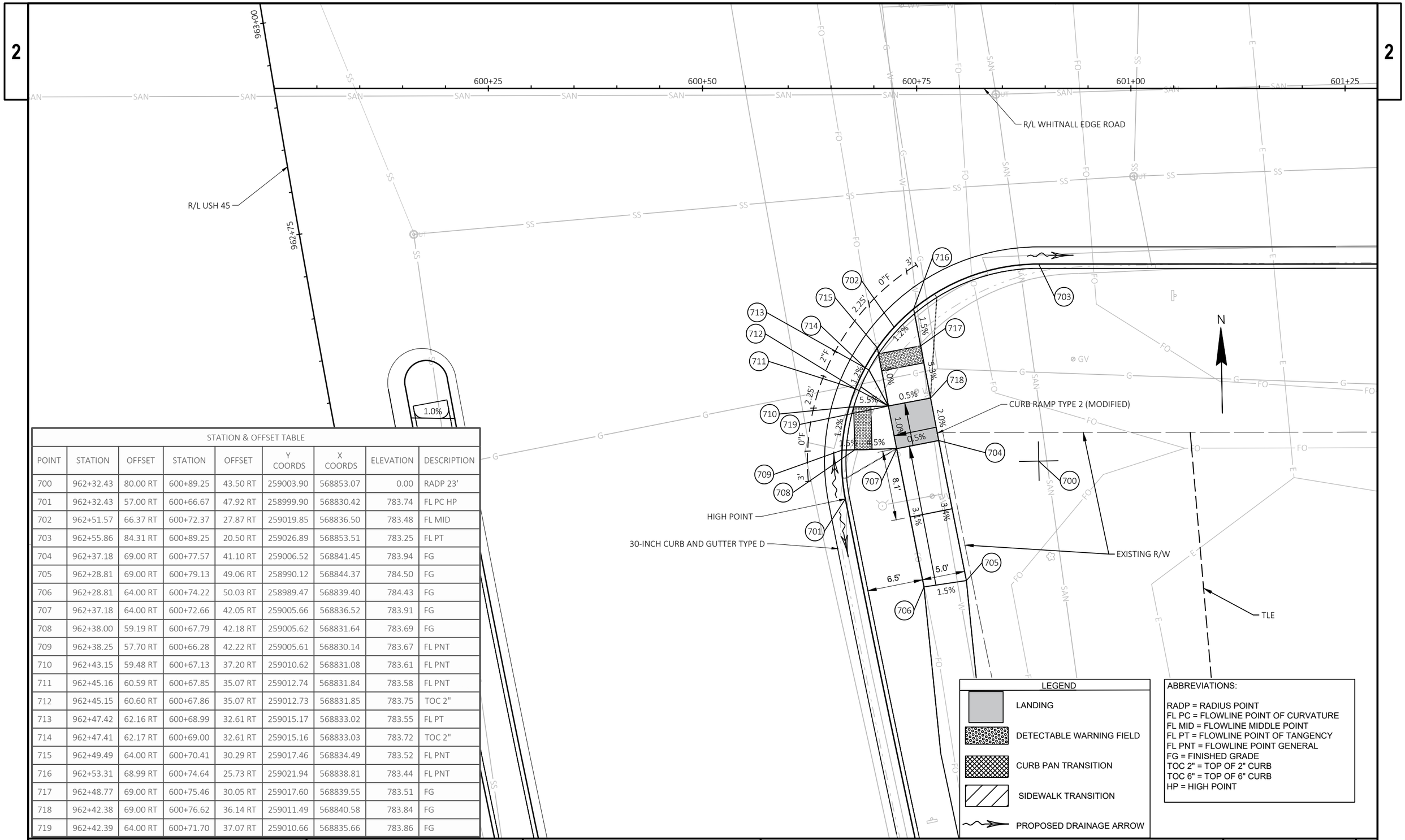


STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
900	952+38.09	75.03 RT	550+73.37	-38.79 LT	258099.63	569199.96	0.00	RADP 18'
901	952+20.68	74.28 RT	550+73.49	-20.79 LT	258083.03	569206.91	806.16	FL PC
902	952+25.98	62.05 RT	550+61.02	-25.69 LT	258082.83	569193.51	805.85	FL MID
903	952+38.09	57.03 RT	550+55.39	-37.84 LT	258091.93	569183.69	805.54	FL PT
904	952+39.16	69.03 RT	550+67.32	-39.57 LT	258098.06	569194.06	806.06	FG
905	952+32.66	69.03 RT	550+67.66	-32.88 LT	258092.00	569196.92	806.31	FG
906	952+27.80	69.02 RT	550+67.90	-27.88 LT	258087.47	569199.04	806.23	FG
907	952+24.89	69.02 RT	550+68.04	-24.89 LT	258084.75	569200.31	806.07	FG
908	952+21.64	69.02 RT	550+68.20	-21.55 LT	258081.72	569201.72	806.04	FL PNT
909	952+24.27	64.02 RT	550+63.08	-24.02 LT	258082.06	569196.05	805.91	FL PNT
910	952+27.80	64.02 RT	550+62.91	-27.65 LT	258085.36	569194.51	806.16	FG
911	952+32.67	64.03 RT	550+62.67	-32.64 LT	258089.89	569192.40	806.23	FG
912	952+39.16	64.03 RT	550+62.33	-39.31 LT	258095.92	569189.54	806.02	FG
913	952+39.15	57.03 RT	550+55.34	-38.93 LT	258092.92	569183.22	805.53	FL PNT
914	952+44.03	57.02 RT	550+55.07	-43.92 LT	258097.43	569181.07	805.48	FL PNT
915	952+44.03	64.02 RT	550+62.06	-44.30 LT	258100.44	569187.40	805.94	FG
916	952+51.81	64.02 RT	550+61.72	-50.29 LT	258105.85	569184.81	806.17	FG
917	952+51.79	69.02 RT	550+66.71	-50.57 LT	258108.00	569189.32	806.25	FG
918	952+44.03	69.02 RT	550+67.05	-44.58 LT	258102.59	569191.91	806.02	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SPEEDWAY DRIVE NE	SHEET 83 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Speedway Drive NE
PLOT DATE : 6/1/2023 11:20 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT



STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
700	962+32.43	80.00 RT	600+89.25	43.50 RT	259003.90	568853.07	0.00	RADP 23'
701	962+32.43	57.00 RT	600+66.67	47.92 RT	258999.90	568830.42	783.74	FL PC HP
702	962+51.57	66.37 RT	600+72.37	27.87 RT	259019.85	568836.50	783.48	FL MID
703	962+55.86	84.31 RT	600+89.25	20.50 RT	259026.89	568853.51	783.25	FL PT
704	962+37.18	69.00 RT	600+77.57	41.10 RT	259006.52	568841.45	783.94	FG
705	962+28.81	69.00 RT	600+79.13	49.06 RT	258990.12	568844.37	784.50	FG
706	962+28.81	64.00 RT	600+74.22	50.03 RT	258989.47	568839.40	784.43	FG
707	962+37.18	64.00 RT	600+72.66	42.05 RT	259005.66	568836.52	783.91	FG
708	962+38.00	59.19 RT	600+67.79	42.18 RT	259005.62	568831.64	783.69	FG
709	962+38.25	57.70 RT	600+66.28	42.22 RT	259005.61	568830.14	783.67	FL PNT
710	962+43.15	59.48 RT	600+67.13	37.20 RT	259010.62	568831.08	783.61	FL PNT
711	962+45.16	60.59 RT	600+67.85	35.07 RT	259012.74	568831.84	783.58	FL PNT
712	962+45.15	60.60 RT	600+67.86	35.07 RT	259012.73	568831.85	783.75	TOC 2"
713	962+47.42	62.16 RT	600+68.99	32.61 RT	259015.17	568833.02	783.55	FL PT
714	962+47.41	62.17 RT	600+69.00	32.61 RT	259015.16	568833.03	783.72	TOC 2"
715	962+49.49	64.00 RT	600+70.41	30.29 RT	259017.46	568834.49	783.52	FL PNT
716	962+53.31	68.99 RT	600+74.64	25.73 RT	259021.94	568838.81	783.44	FL PNT
717	962+48.77	69.00 RT	600+75.46	30.05 RT	259017.60	568839.55	783.51	FG
718	962+42.38	69.00 RT	600+76.62	36.14 RT	259011.49	568840.58	783.84	FG
719	962+42.39	64.00 RT	600+71.70	37.07 RT	259010.66	568835.66	783.86	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - WHITNAL EDGE ROAD SE	SHEET 84	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Whitnall Edge Road SE

PLOT DATE : 6/1/2023 11:20 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

N

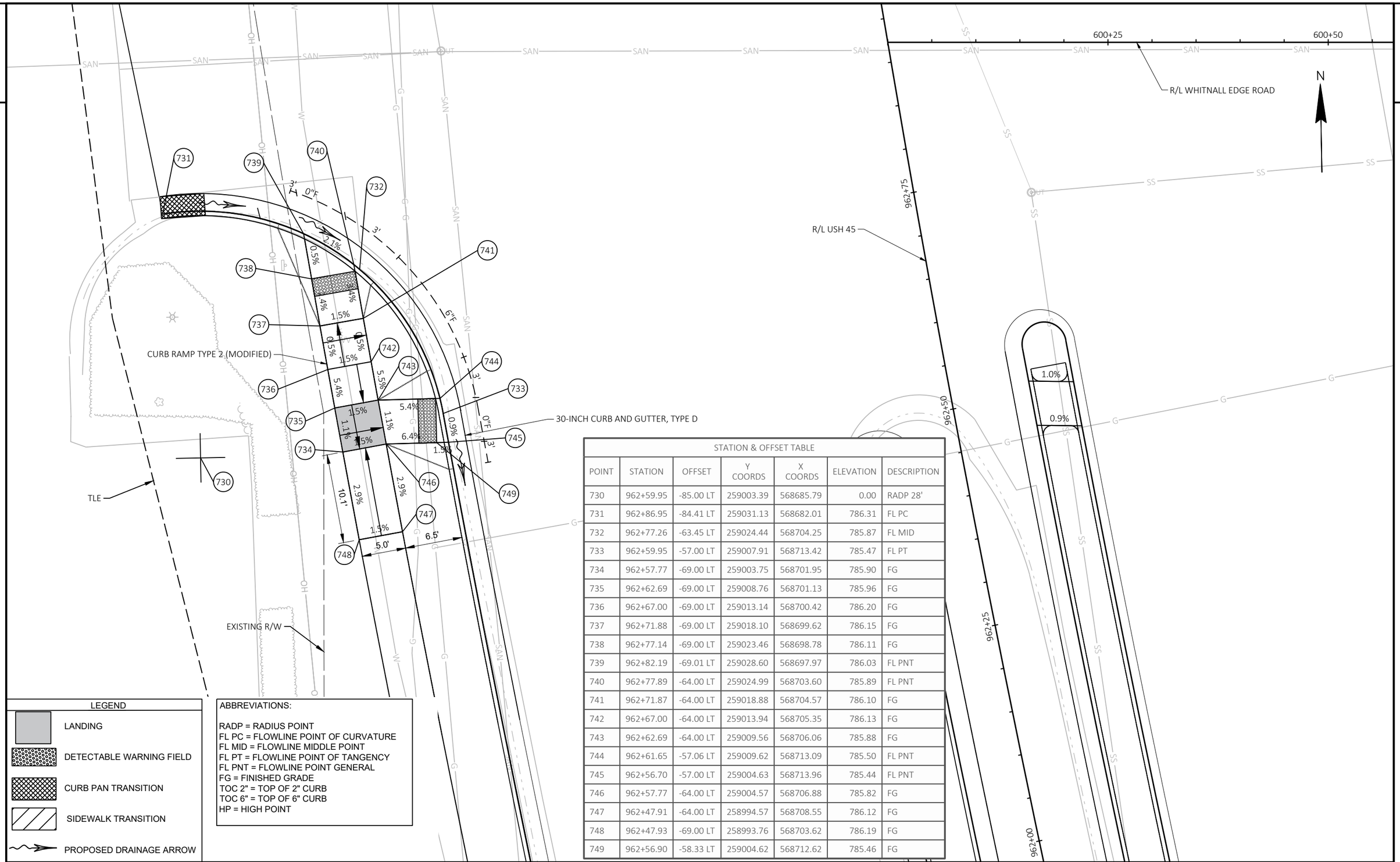
600+63
600+25
R/L WHITNALL EDGE ROAD
R/L USH 45
962+75
962+50
962+25
30-INCH CURB AND GUTTER, TYPE D
CURB RAMP TYPE 5
18-INCH CURB AND GUTTER, TYPE D
EXISTING R/W
EXISTING R/W
722
721
723
720
724
1.0%
0.5%
0.5%
0.9%
2.1%
1.5%
0.5%
1.5%
1.1%
2.9%
2.9%
3.4%
3.1%
4"

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
720	962+46.41	9.00 RT	600+16.94	43.47 RT	259005.29	568780.78	784.62	FL
721	962+51.53	9.00 RT	600+15.99	38.46 RT	259010.32	568779.93	784.66	FL
722	962+55.36	14.00 RT	600+20.21	33.81 RT	259014.90	568784.23	784.75	FL HP
723	962+50.53	14.00 RT	600+21.09	38.52 RT	259010.16	568785.02	784.71	FL
724	962+45.40	14.00 RT	600+22.04	43.54 RT	259005.13	568785.88	784.67	FL

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - WHITNALL EDGE ROAD MEDIAN S	SHEET 85	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Whitnall Edge Road Median S
PLOT DATE : 6/1/2023 11:21 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
730	962+59.95	-85.00 LT	259003.39	568685.79	0.00	RADP 28'
731	962+86.95	-84.41 LT	259031.13	568682.01	786.31	FL PC
732	962+77.26	-63.45 LT	259024.44	568704.25	785.87	FL MID
733	962+59.95	-57.00 LT	259007.91	568713.42	785.47	FL PT
734	962+57.77	-69.00 LT	259003.75	568701.95	785.90	FG
735	962+62.69	-69.00 LT	259008.76	568701.13	785.96	FG
736	962+67.00	-69.00 LT	259013.14	568700.42	786.20	FG
737	962+71.88	-69.00 LT	259018.10	568699.62	786.15	FG
738	962+77.14	-69.00 LT	259023.46	568698.78	786.11	FG
739	962+82.19	-69.01 LT	259028.60	568697.97	786.03	FL PNT
740	962+77.89	-64.00 LT	259024.99	568703.60	785.89	FL PNT
741	962+71.87	-64.00 LT	259018.88	568704.57	786.10	FG
742	962+67.00	-64.00 LT	259013.94	568705.35	786.13	FG
743	962+62.69	-64.00 LT	259009.56	568706.06	785.88	FG
744	962+61.65	-57.06 LT	259009.62	568713.09	785.50	FL PNT
745	962+56.70	-57.00 LT	259004.63	568713.96	785.44	FL PNT
746	962+57.77	-64.00 LT	259004.57	568706.88	785.82	FG
747	962+47.91	-64.00 LT	258994.57	568708.55	786.12	FG
748	962+47.93	-69.00 LT	258993.76	568703.62	786.19	FG
749	962+56.90	-58.33 LT	259004.62	568712.62	785.46	FG

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - WHITNALL EDGE ROAD SW	SHEET 86	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Whitnall Edge Road SW
PLOT DATE : 6/1/2023 11:21 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

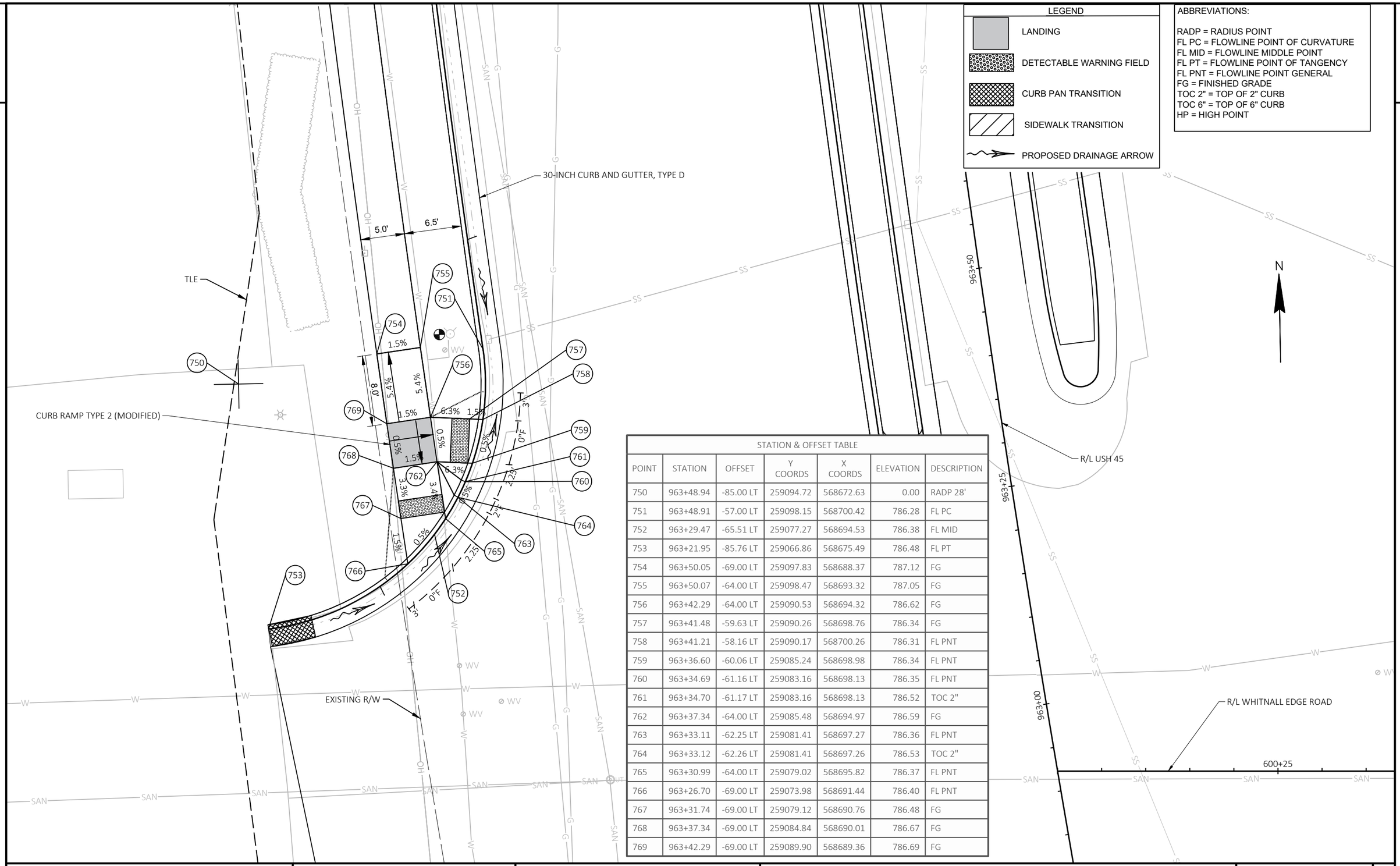
2

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
750	963+48.94	-85.00 LT	259094.72	568672.63	0.00	RADP 28'
751	963+48.91	-57.00 LT	259098.15	568700.42	786.28	FL PC
752	963+29.47	-65.51 LT	259077.27	568694.53	786.38	FL MID
753	963+21.95	-85.76 LT	259066.86	568675.49	786.48	FL PT
754	963+50.05	-69.00 LT	259097.83	568688.37	787.12	FG
755	963+50.07	-64.00 LT	259098.47	568693.32	787.05	FG
756	963+42.29	-64.00 LT	259090.53	568694.32	786.62	FG
757	963+41.48	-59.63 LT	259090.26	568698.76	786.34	FG
758	963+41.21	-58.16 LT	259090.17	568700.26	786.31	FL PNT
759	963+36.60	-60.06 LT	259085.24	568698.98	786.34	FL PNT
760	963+34.69	-61.16 LT	259083.16	568698.13	786.35	FL PNT
761	963+34.70	-61.17 LT	259083.16	568698.13	786.52	TOC 2"
762	963+37.34	-64.00 LT	259085.48	568694.97	786.59	FG
763	963+33.11	-62.25 LT	259081.41	568697.27	786.36	FL PNT
764	963+33.12	-62.26 LT	259081.41	568697.26	786.53	TOC 2"
765	963+30.99	-64.00 LT	259079.02	568695.82	786.37	FL PNT
766	963+26.70	-69.00 LT	259073.98	568691.44	786.40	FL PNT
767	963+31.74	-69.00 LT	259079.12	568690.76	786.48	FG
768	963+37.34	-69.00 LT	259084.84	568690.01	786.67	FG
769	963+42.29	-69.00 LT	259089.90	568689.36	786.69	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - WHITNALL EDGE ROAD NW	SHEET 87	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Whitnall Edge Road NW
PLOT DATE : 6/1/2023 11:21 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

N

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

18-INCH CURB AND GUTTER, TYPE D

CURB RAMP TYPE 5

30-INCH CURB AND GUTTER, TYPE D

R/L USH 45

R/L WHITNALL EDGE ROAD

EXISTING R/W

TLE

963+75

963+50

963+25

963+00

600+25

600+50

600+75

978 0.9%

975

976 0.9%

977

0.9%

0.9%

0.9%

5.4%

5.4%

3.3%

1.5%

5.7%

4.9%

0.5%

1.7%

1.5%

1.3%

1.3%

1.5%

1.4%

2.0%

2.8%

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
975	963+32.12	-9.00 LT	259087.35	568750.20	785.33	FL
976	963+27.09	-9.00 LT	259082.35	568750.86	785.28	FL
977	963+27.78	-14.00 LT	259082.37	568745.81	785.33	FL
978	963+32.80	-14.00 LT	259087.38	568745.15	785.37	FL

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - WHITNALL EDGE ROAD MEDIAN N	SHEET 88	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Whitnall Edge Road Median N

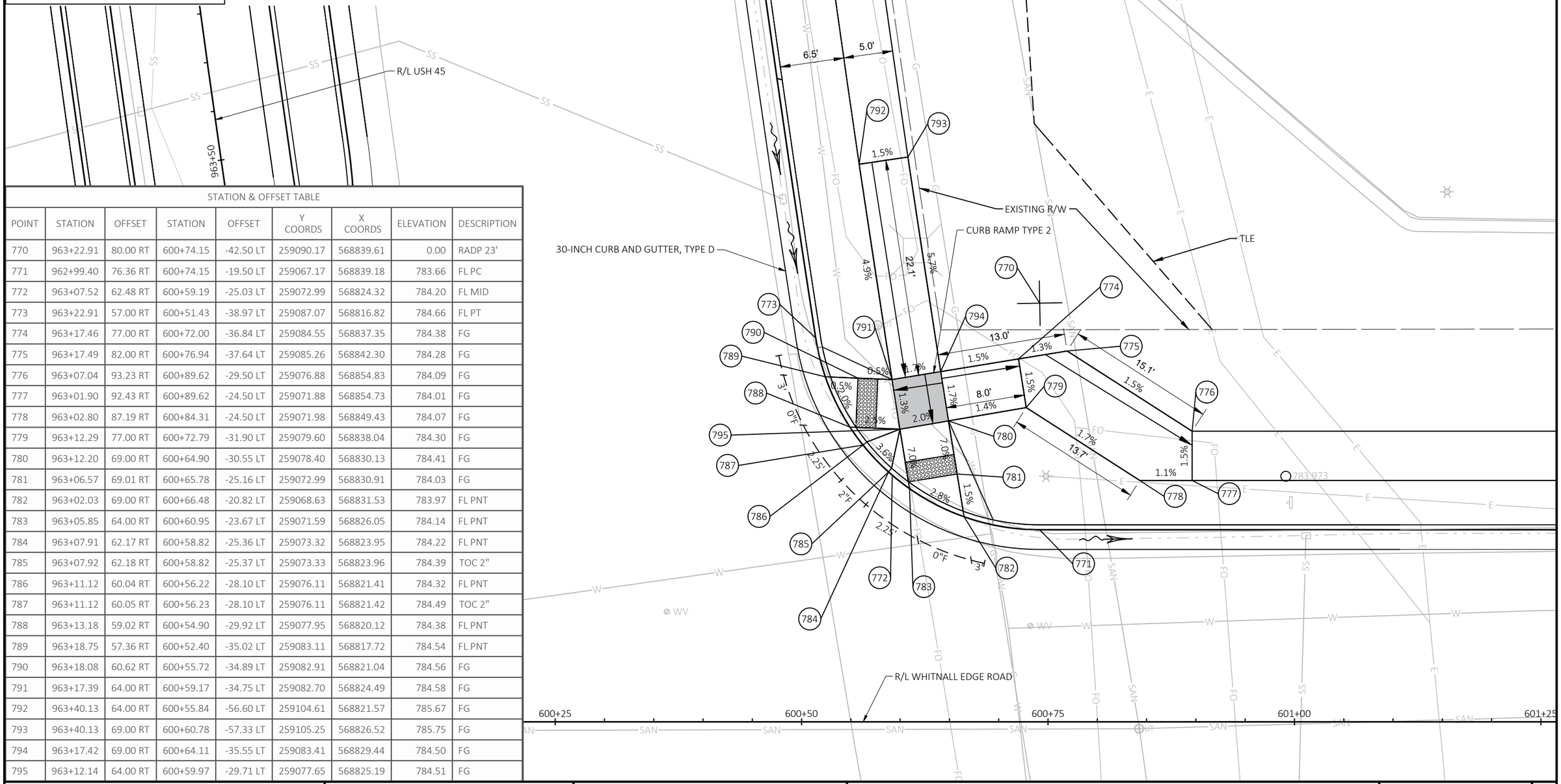
PLOT DATE : 6/1/2023 11:22 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

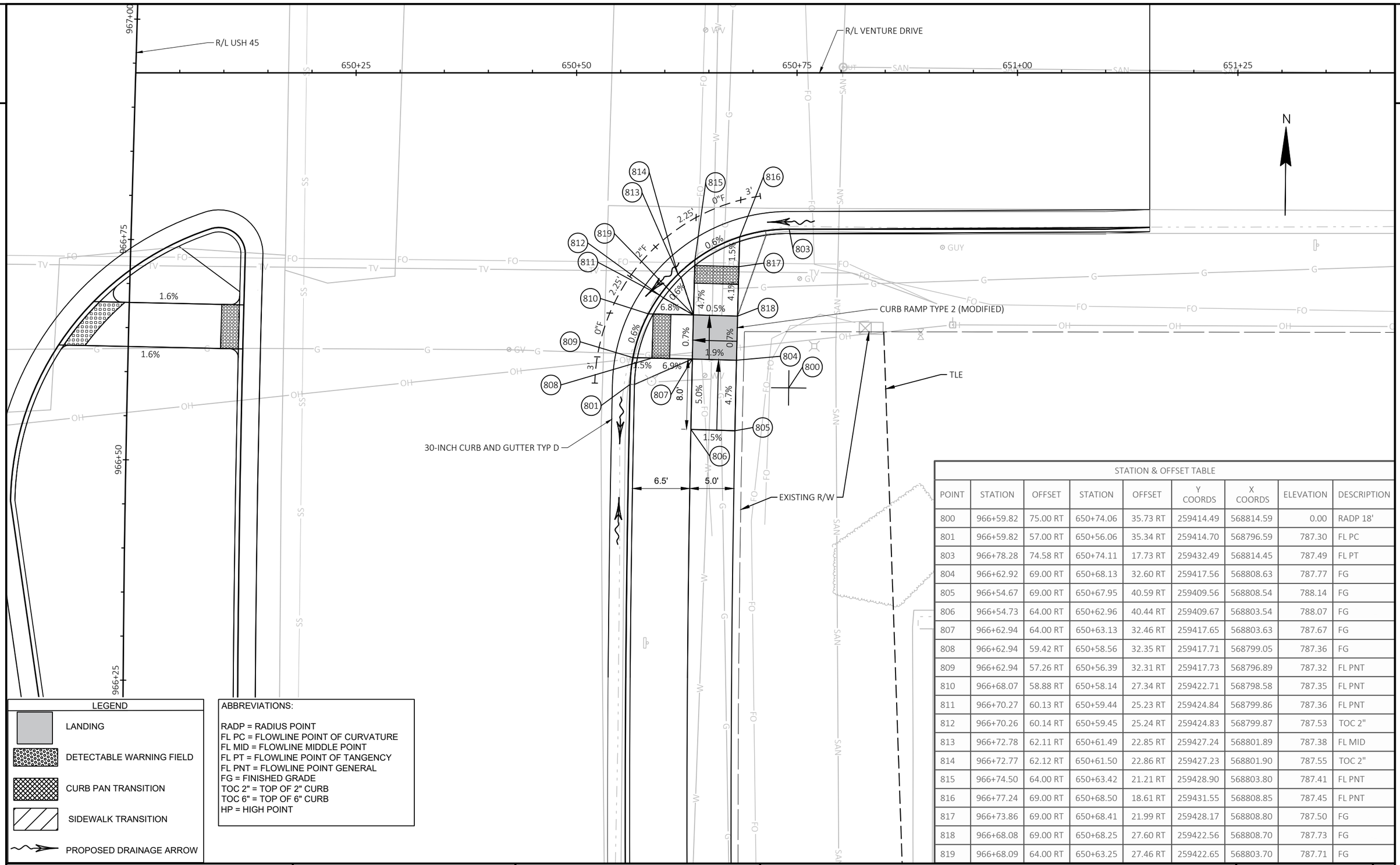
RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT



STATION & OFFSET TABLE								
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
770	963+22.91	80.00 RT	600+74.15	-42.50 LT	259090.17	568839.61	0.00	RADP 23'
771	962+99.40	76.36 RT	600+74.15	-19.50 LT	259067.17	568839.18	783.66	FL PC
772	963+07.52	62.48 RT	600+59.19	-25.03 LT	259072.99	568824.32	784.20	FL MID
773	963+22.91	57.00 RT	600+51.43	-38.97 LT	259087.07	568816.82	784.66	FL PT
774	963+17.46	77.00 RT	600+72.00	-36.84 LT	259084.55	568837.35	784.38	FG
775	963+17.49	82.00 RT	600+76.94	-37.64 LT	259085.26	568842.30	784.28	FG
776	963+07.04	93.23 RT	600+89.62	-29.50 LT	259076.88	568854.83	784.09	FG
777	963+01.90	92.43 RT	600+89.62	-24.50 LT	259071.88	568854.73	784.01	FG
778	963+02.80	87.19 RT	600+84.31	-24.50 LT	259071.98	568849.43	784.07	FG
779	963+12.29	77.00 RT	600+72.79	-31.90 LT	259079.60	568838.04	784.30	FG
780	963+12.20	69.00 RT	600+64.90	-30.55 LT	259078.40	568830.13	784.41	FG
781	963+06.57	69.01 RT	600+65.78	-25.16 LT	259072.99	568830.91	784.03	FG
782	963+02.03	69.00 RT	600+66.48	-20.82 LT	259068.63	568831.53	783.97	FL PNT
783	963+05.85	64.00 RT	600+60.95	-23.67 LT	259071.59	568826.05	784.14	FL PNT
784	963+07.91	62.17 RT	600+58.82	-25.36 LT	259073.32	568823.95	784.22	FL PNT
785	963+07.92	62.18 RT	600+58.82	-25.37 LT	259073.33	568823.96	784.39	TOC 2"
786	963+11.12	60.04 RT	600+56.22	-28.10 LT	259076.11	568821.41	784.32	FL PNT
787	963+11.12	60.05 RT	600+56.23	-28.10 LT	259076.11	568821.42	784.49	TOC 2"
788	963+13.18	59.02 RT	600+54.90	-29.92 LT	259077.95	568820.12	784.38	FL PNT
789	963+18.75	57.36 RT	600+52.40	-35.02 LT	259083.11	568817.72	784.54	FL PNT
790	963+18.08	60.62 RT	600+55.72	-34.89 LT	259082.91	568821.04	784.56	FG
791	963+17.39	64.00 RT	600+59.17	-34.75 LT	259082.70	568824.49	784.58	FG
792	963+40.13	64.00 RT	600+55.84	-56.60 LT	259104.61	568821.57	785.67	FG
793	963+40.13	69.00 RT	600+60.78	-57.33 LT	259105.25	568826.52	785.75	FG
794	963+17.42	69.00 RT	600+64.11	-35.55 LT	259083.41	568829.44	784.50	FG
795	963+12.14	64.00 RT	600+59.97	-29.71 LT	259077.65	568825.19	784.51	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - WHITNALL EDGE ROAD NE	SHEET 89	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Whitnall Edge Road NE
PLOT DATE : 6/1/2023 11:22 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



LEGEND
LANDING
DETECTABLE WARNING FIELD
CURB PAN TRANSITION
SIDEWALK TRANSITION
PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
800	966+59.82	75.00 RT	650+74.06	35.73 RT	259414.49	568814.59	0.00	RADP 18'
801	966+59.82	57.00 RT	650+56.06	35.34 RT	259414.70	568796.59	787.30	FL PC
803	966+78.28	74.58 RT	650+74.11	17.73 RT	259432.49	568814.45	787.49	FL PT
804	966+62.92	69.00 RT	650+68.13	32.60 RT	259417.56	568808.63	787.77	FG
805	966+54.67	69.00 RT	650+67.95	40.59 RT	259409.56	568808.54	788.14	FG
806	966+54.73	64.00 RT	650+62.96	40.44 RT	259409.67	568803.54	788.07	FG
807	966+62.94	64.00 RT	650+63.13	32.46 RT	259417.65	568803.63	787.67	FG
808	966+62.94	59.42 RT	650+58.56	32.35 RT	259417.71	568799.05	787.36	FG
809	966+62.94	57.26 RT	650+56.39	32.31 RT	259417.73	568796.89	787.32	FL PNT
810	966+68.07	58.88 RT	650+58.14	27.34 RT	259422.71	568798.58	787.35	FL PNT
811	966+70.27	60.13 RT	650+59.44	25.23 RT	259424.84	568799.86	787.36	FL PNT
812	966+70.26	60.14 RT	650+59.45	25.24 RT	259424.83	568799.87	787.53	TOC 2"
813	966+72.78	62.11 RT	650+61.49	22.85 RT	259427.24	568801.89	787.38	FL MID
814	966+72.77	62.12 RT	650+61.50	22.86 RT	259427.23	568801.90	787.55	TOC 2"
815	966+74.50	64.00 RT	650+63.42	21.21 RT	259428.90	568803.80	787.41	FL PNT
816	966+77.24	69.00 RT	650+68.50	18.61 RT	259431.55	568808.85	787.45	FL PNT
817	966+73.86	69.00 RT	650+68.41	21.99 RT	259428.17	568808.80	787.50	FG
818	966+68.08	69.00 RT	650+68.25	27.60 RT	259422.56	568808.70	787.73	FG
819	966+68.09	64.00 RT	650+63.25	27.46 RT	259422.65	568803.70	787.71	FG

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - VENTURE DRIVE SE	SHEET 90	E

STATION & OFFSET TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
850	966+62.85	-7.89 LT	259418.50	568731.75	787.71	FL
851	966+67.84	-4.04 LT	259423.45	568735.66	787.76	FL
852	966+62.87	13.00 RT	259423.25	568752.70	788.03	FL
853	966+73.63	13.00 RT	259418.25	568752.63	788.05	FL

N

R/L USH 45

R/L VENTURE DRIVE

967+00

966+75

966+50

966+25

650+25

650+50

LONG CHORD 6.38'
DWF RADIUS 32.5'

CURB RAMP TYPE 5

EXISTING R/W

30-INCH CURB AND GUTTER, TYPE D

1.6%
1.2%
6.5%
1.0%
0.9%
6.5%
5.5%
5.2%
0.9%
1.6%
0.7%
1.6%
6.8%
4.7%
6.9%

LEGEND
LANDING
DETECTABLE WARNING FIELD
CURB PAN TRANSITION
SIDEWALK TRANSITION
PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - VENTURE DRIVE MEDIAN S	SHEET 91	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Venture Drive Median S

PLOT DATE : 6/1/2023 11:23 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

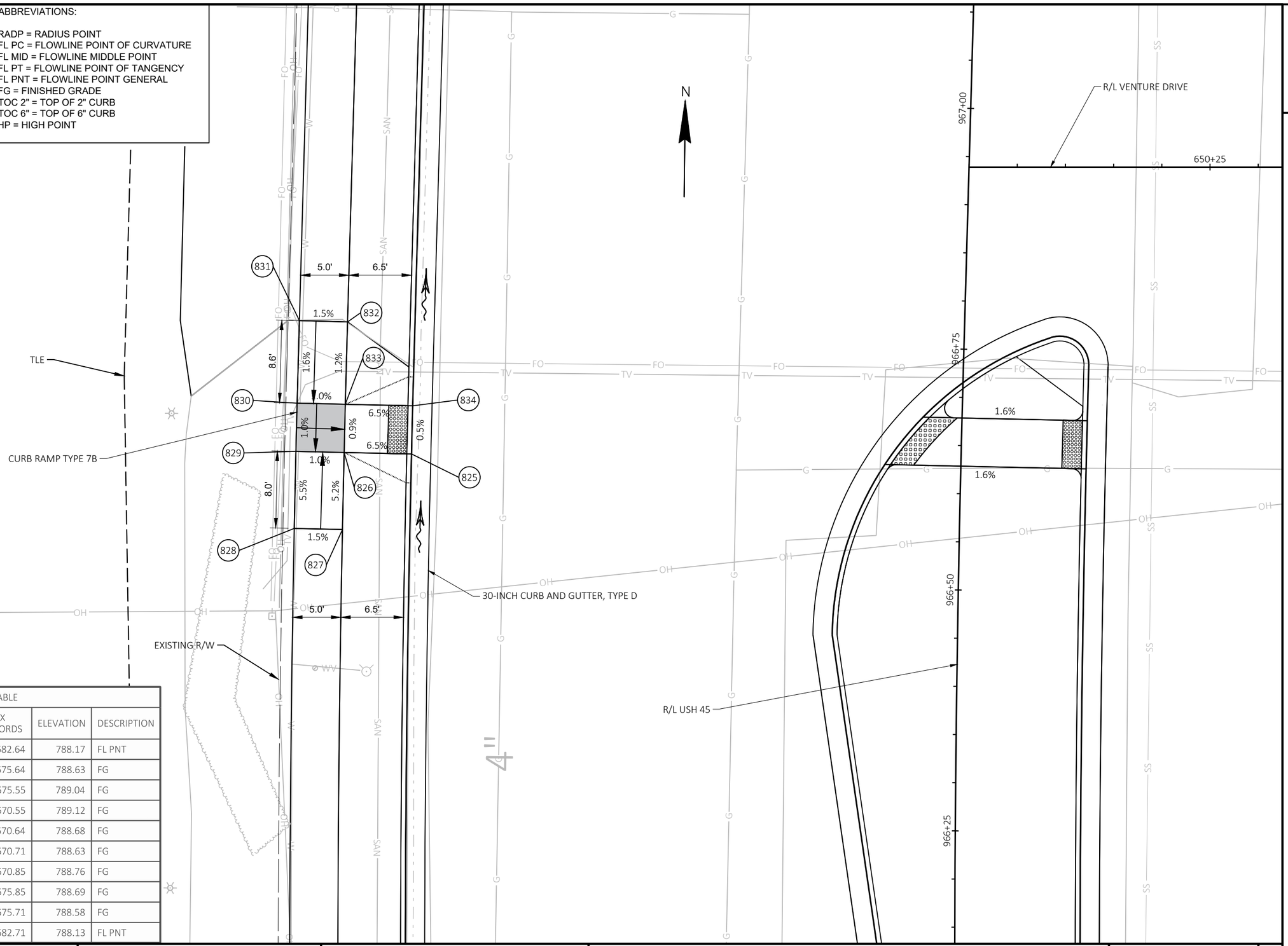
2

LEGEND

- LANDING
- DETECTABLE WARNING FIELD
- CURB PAN TRANSITION
- SIDEWALK TRANSITION
- PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
825	966+62.78	-57.00 LT	259419.07	568682.64	788.17	FL PNT
826	966+62.78	-64.00 LT	259419.15	568675.64	788.63	FG
827	966+54.99	-64.00 LT	259411.16	568675.55	789.04	FG
828	966+55.01	-69.00 LT	259411.22	568670.55	789.12	FG
829	966+62.78	-69.00 LT	259419.22	568670.64	788.68	FG
830	966+67.63	-69.00 LT	259424.22	568670.71	788.63	FG
831	966+76.02	-69.00 LT	259432.80	568670.85	788.76	FG
832	966+76.02	-64.00 LT	259432.71	568675.85	788.69	FG
833	966+67.64	-64.00 LT	259424.15	568675.71	788.58	FG
834	966+67.66	-57.00 LT	259424.07	568682.71	788.13	FL PNT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - VENTURE DRIVE SW	SHEET 92	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RD.DWG
LAYOUT NAME - Venture Drive SW

PLOT DATE : 6/1/2023 11:23 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

STATION & OFFSET TABLE								
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
870	967+50.56	85.00 RT	650+86.57	-54.23 LT	259504.58	568826.16	0.00	RADP 28
871	967+22.97	80.23 RT	650+81.02	-26.79 LT	259477.08	568820.90	787.25	FL PC
872	967+32.53	63.58 RT	650+64.65	-36.81 LT	259486.93	568804.42	787.03	FL MID
873	967+50.56	57.00 RT	650+58.58	-55.02 LT	259505.08	568798.17	786.81	FL PT
874	967+51.95	69.00 RT	650+70.62	-56.06 LT	259506.25	568810.19	787.63	FG
875	967+43.95	69.00 RT	650+70.39	-48.07 LT	259498.25	568810.05	787.39	FG
876	967+38.95	69.00 RT	650+70.25	-43.07 LT	259493.25	568809.96	787.34	FG
878	967+27.59	69.00 RT	650+69.93	-31.71 LT	259481.89	568809.75	787.11	FG
879	967+32.04	64.00 RT	650+65.05	-36.31 LT	259486.44	568804.83	787.04	FG
880	967+38.95	64.00 RT	650+65.25	-43.21 LT	259493.34	568804.96	787.27	FG
881	967+43.95	64.00 RT	650+64.27	-47.60 LT	259498.34	568805.05	787.31	FG
882	967+51.95	64.00 RT	650+65.62	-56.21 LT	259506.33	568805.19	787.56	FG

N

EXISTING R/W

TLE

30-INCH CURB AND GUTTER, TYPE D

6.5'

5.0'

873 882 874 870 881 875 880 876 872 879 878 871

1.5% 3.1% 3.1% 1.5% 1.8% 1.0% 1.3% 3.4% 2.0% 1.5%

CURB RAMP TYPE 2 (MODIFIED)

PROPOSED R/W

T 3' 0"F 3'

LONG CHORD 6.80'
DWF RADIUS 27.5'

R/L USH 45

R/L VENTURE DRIVE

967+75 967+50 967+25 967+00

650+25 650+50 650+75 651+00 651+25 651+50

LEGEND
LANDING
DETECTABLE WARNING FIELD
CURB PAN TRANSITION
SIDEWALK TRANSITION
PROPOSED DRAINAGE ARROW

ABBREVIATIONS:

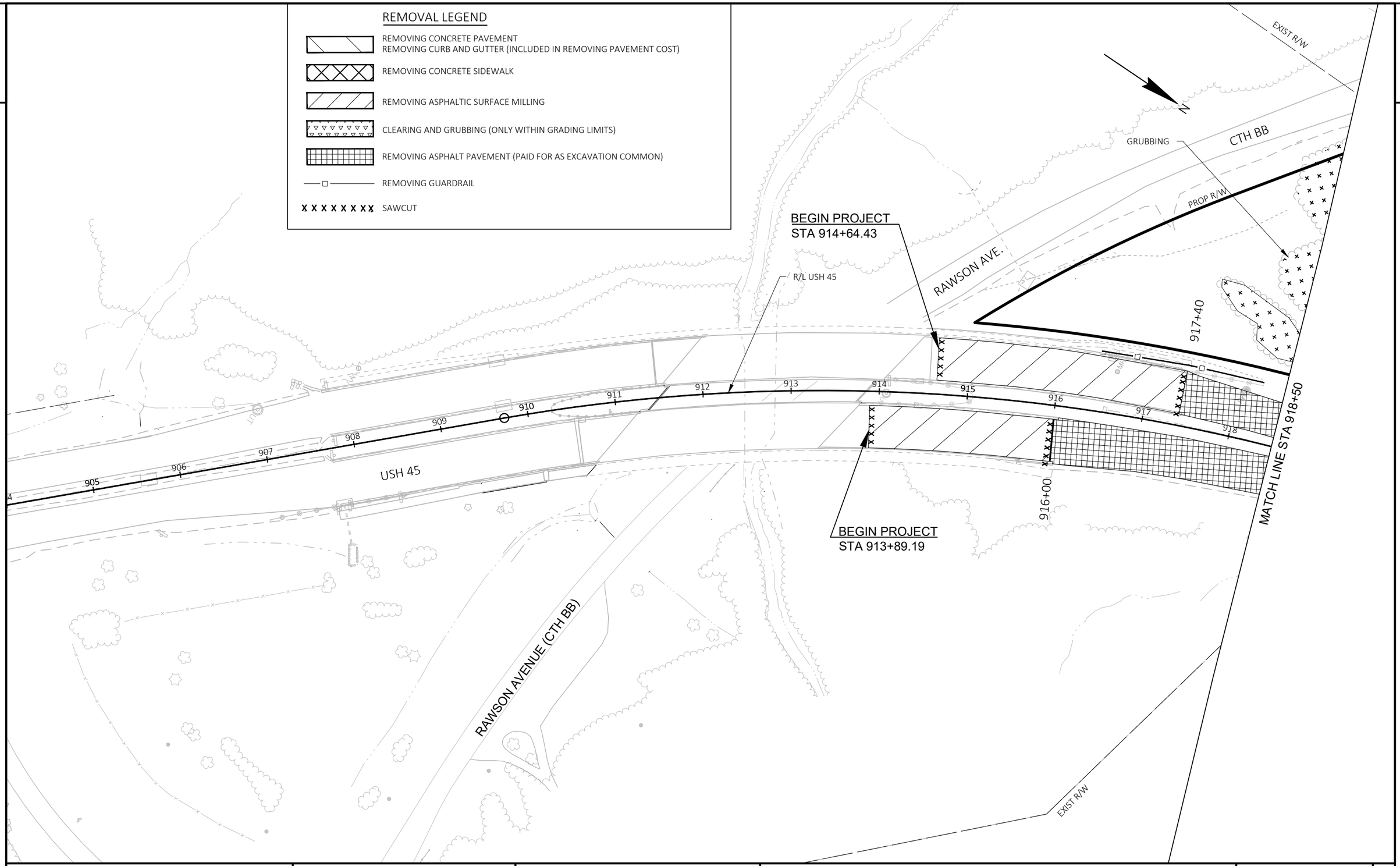
RADP = RADIUS POINT
FL PC = FLOWLINE POINT OF CURVATURE
FL MID = FLOWLINE MIDDLE POINT
FL PT = FLOWLINE POINT OF TANGENCY
FL PNT = FLOWLINE POINT GENERAL
FG = FINISHED GRADE
TOC 2" = TOP OF 2" CURB
TOC 6" = TOP OF 6" CURB
HP = HIGH POINT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CURB RAMP DETAILS - VENTURE DRIVE NE	SHEET 93	E

2

REMOVAL LEGEND

- REMOVING CONCRETE PAVEMENT
  REMOVING CURB AND GUTTER (INCLUDED IN REMOVING PAVEMENT COST)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- CLEARING AND GRUBBING (ONLY WITHIN GRADING LIMITS)
- REMOVING ASPHALT PAVEMENT (PAID FOR AS EXCAVATION COMMON)
- REMOVING GUARDRAIL
- SAWCUT



2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	REMOVAL PLANS	SHEET 94	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RE.DWG
LAYOUT NAME - 021201

PLOT DATE : 4/28/2023 10:00 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MATCH LINE STA 918+50

MATCH LINE STA 932+50

RAWSON NW RAMP

PROP R/W

GRUBBING

R/L RAWSON NW RAMP

CLEARING AND GRUBBING

FRONTAGE ROAD WEST

TLE

PROP R/W

EXIST R/W

R/L FRONTAGE ROAD WEST

EASEMENT

R/L USH 45

REMOVING CURB & GUTTER

USH 45

FRONTAGE ROAD EAST

PHYLLIS LANE

R/L PHYLLIS LANE

R/L FRONTAGE ROAD EAST

RETAINING WALL REMOVAL

RETAINING WALL TO REMAIN

GUARDRAIL REMOVAL

REMOVAL LEGEND

- REMOVING CONCRETE PAVEMENT
  REMOVING CURB AND GUTTER (INCLUDED IN REMOVING PAVEMENT COST)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- CLEARING AND GRUBBING (ONLY WITHIN GRADING LIMITS)
- REMOVING ASPHALT PAVEMENT (PAID FOR AS EXCAVATION COMMON)
- REMOVING GUARDRAIL
- SAWCUT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	REMOVAL PLANS	SHEET 95	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RE.DWG
LAYOUT NAME - 021202

PLOT DATE : 4/28/2023 10:00 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

REMOVAL LEGEND

- REMOVING CONCRETE PAVEMENT
  REMOVING CURB AND GUTTER (INCLUDED IN REMOVING PAVEMENT COST)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- CLEARING AND GRUBBING (ONLY WITHIN GRADING LIMITS)
- REMOVING ASPHALT PAVEMENT (PAID FOR AS EXCAVATION COMMON)
- REMOVING GUARDRAIL
- SAWCUT

N

MATCH LINE STA 932+50

EASEMENT

SIGN TO BE REMOVED BY OTHERS

EXIST R/W

TLE

TWO LARGE TREES ADJACENT TO DRIVEWAY INCLUDED IN CLEARING AND GRUBBING

REMOVING MASONRY (TWO BRICK PILLARS)

CORTEZ ROAD

PROP R/W

R/L CORTEZ ROAD

R/L PRAIRIEWOOD LANE

PRAIRIEWOOD LANE

REMOVING CURB AND GUTTER

DO NOT DISTURB ROCK WALL

R/L USH 45

USH 45

933 934 935 936 937 938 939 940 941 942 943 944 945 946

MATCH LINE STA 947+00

359 360 401 402 403 404

HERDA PLACE

PROP R/W

EXIST R/W

DO NOT DISTURB EXISTING VEGETATION BEYOND LIMITS OF CONSTRUCTION

R/L HERDA PLACE

BOULDER RETAINING WALL TO BE REMOVED BY OTHERS.
IF NOT REMOVED PRIOR TO CONSTRUCTION,
COORDINATE REMOVAL WITH OWNER.
REMOVAL INCLUDED IN EXCAVATION COMMON

R/L CORTEZ CIRCLE (SOUTH)

REMOVE SIGN AND BASE

CORTEZ CIRCLE (SOUTH)

R/L CORTEZ CIRCLE (NORTH)

CORTEZ CIRCLE (NORTH)

501 502 503 504

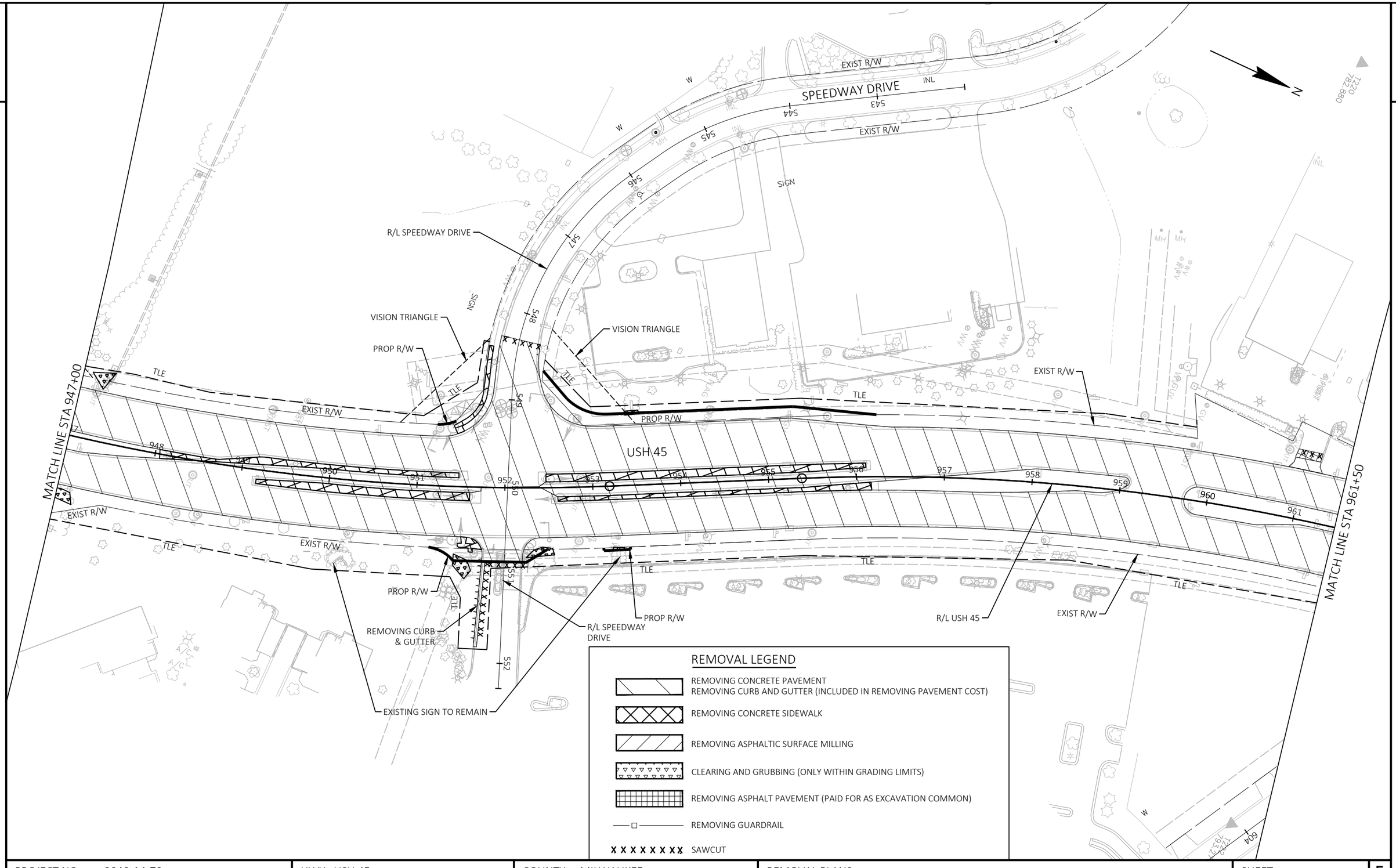
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	REMOVAL PLANS	SHEET 96	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RE.DWG
LAYOUT NAME - 021203

PLOT DATE : 4/28/2023 10:00 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	REMOVAL PLANS	SHEET 97	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RE.DWG
LAYOUT NAME - 021204
PLOT DATE : 4/28/2023 10:00 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

REMOVAL LEGEND

- REMOVING CONCRETE PAVEMENT
  REMOVING CURB AND GUTTER (INCLUDED IN REMOVING PAVEMENT COST)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- CLEARING AND GRUBBING (ONLY WITHIN GRADING LIMITS)
- REMOVING ASPHALT PAVEMENT (PAID FOR AS EXCAVATION COMMON)
- REMOVING GUARDRAIL
- SAWCUT

N

REMOVING CURB & GUTTER
REMOVING CONCRETE SIDEWALK
SAWCUT 1' FROM FLANGE LINE
FOR CROSSOVER

END CONSTRUCTION
STA 971+50.00

R/L USH 45

USH 45

UTILITY EASEMENT

TLE

EXIST R/W

MATCH LINE STA 961+50

962 963 964 965 966 967 968 969 970 971 972 973 974 975

60ft

PROP R/W

EXIST R/W

END PROJECT
STA 968+80.00

EASEMENT

CONCRETE SIGN FOUNDATION TO BE REMOVED
BY CITY OF FRANKLIN

R/L WHITNALL EDGE ROAD

WHITNALL EDGE ROAD

VENTURE DRIVE

652 653 654

R/L VENTURE DRIVE

COLLEGE AVENUE

FILLER CAPS

G.P.

CANOPY

SIGN

WALLS

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	REMOVAL PLANS	SHEET 98	E

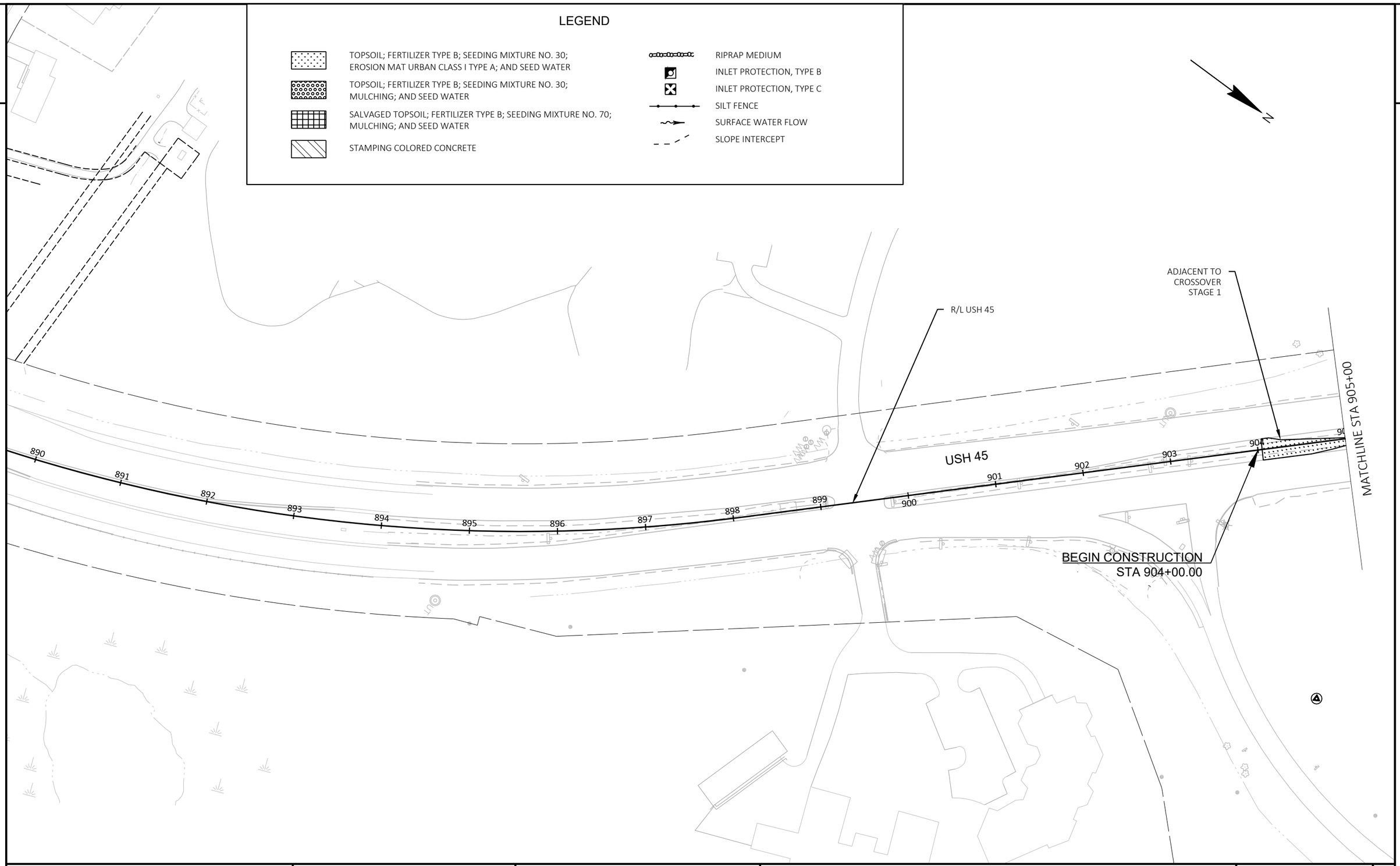
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-RE.DWG
LAYOUT NAME - 021205

PLOT DATE : 4/28/2023 10:00 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT



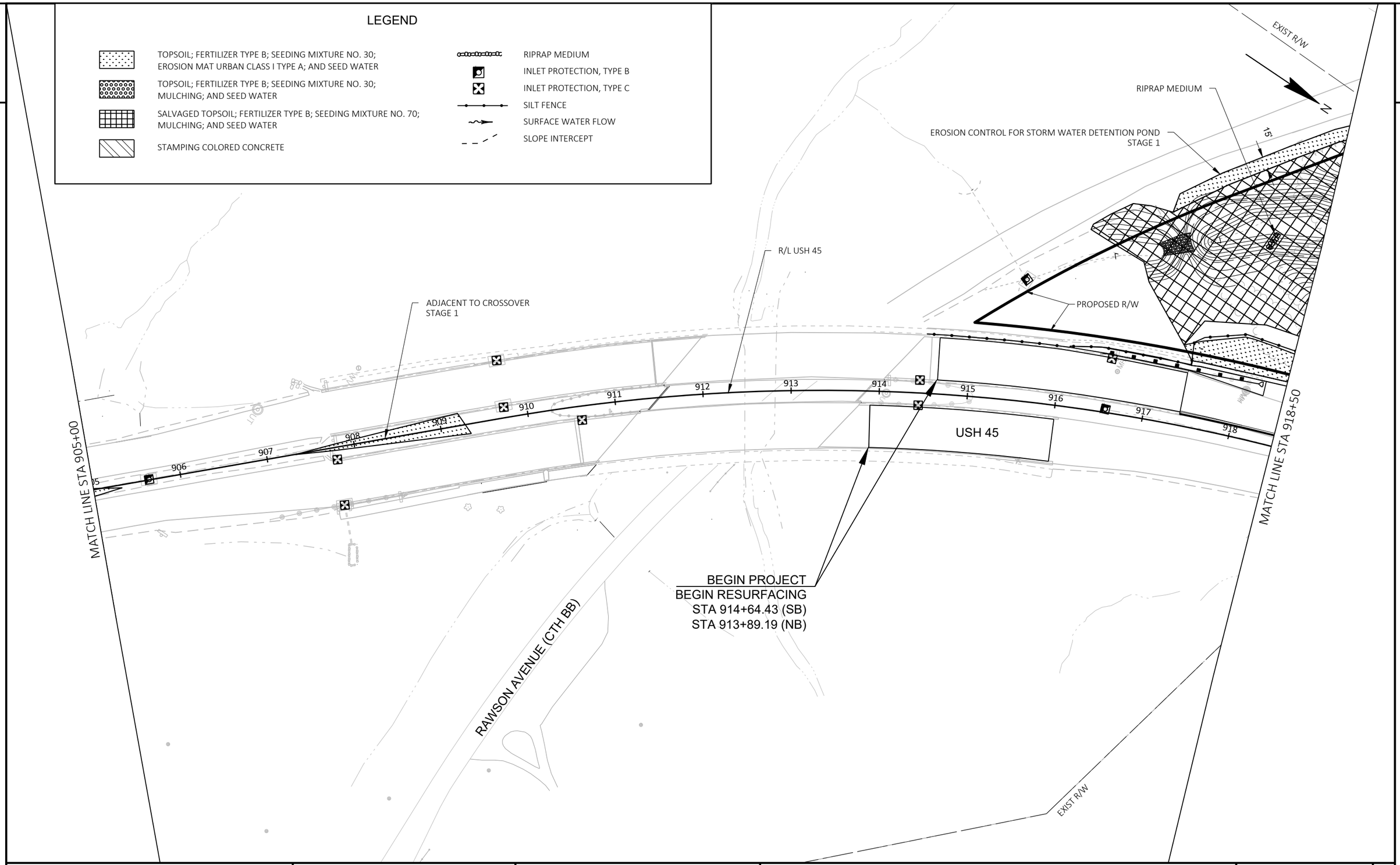
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 1 & 2	SHEET 99	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022001-EC2.DWG
LAYOUT NAME - 022000-ec2
PLOT DATE : 5/31/2023 9:11 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 1 & 2	SHEET 100	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022001-EC2.DWG
LAYOUT NAME - 022001-ec2

PLOT DATE : 5/31/2023 9:11 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

RAWSON NW RAMP

EROSION CONTROL FOR STORM WATER DETENTION POND STAGE 1

PROPOSED R/W

RIPRAP MEDIUM

R/L RAWSON NW RAMP

R/L FRONTAGE ROAD WEST

R/L USH 45

FRONTAGE ROAD WEST

USH 45

FRONTAGE ROAD EAST

PHYLLIS LANE

R/L PHYLLIS LANE

R/L FRONTAGE ROAD EAST

INLET PROTECTION FOR NB USH 45 STAGE 1 (TYP)

MATCH LINE STA 918+50

MATCH LINE STA 932+50

EXIST R/W

PROP R/W

TLE

INL

POST

A/C

WELL

T308
784-540

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 1 & 2	SHEET 101	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022001-EC2.DWG
LAYOUT NAME - 022002-ec2
PLOT DATE : 5/31/2023 9:11 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT

N

MATCH LINE STA 932+50

MATCH LINE STA 947+00

USH 45

CORTEZ CIRCLE

R/L CORTEZ CIRCLE

PRAIRIE WOOD LANE

R/L PRAIRIE WOOD LANE

HERDA PLACE

R/L HERDA PLACE

CORTEZ CIRCLE (SOUTH)

R/L CORTEZ CIRCLE (SOUTH)

CORTEZ CIRCLE (NORTH)

R/L CORTEZ CIRCLE (NORTH)

R/L USH 45

EXIST R/W

PROP R/W

TLE

933 934 935 936 937 938 939 940 941 942 943 944 945 946

359 360 401 402 403 404 449 450 451 452 498 499 501 502 503 504

2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 1 & 2	SHEET 102	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022001-EC2.DWG
LAYOUT NAME - 022003-ec2
PLOT DATE : 5/31/2023 9:11 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

EXIST R/W

INL

EXIST R/W

SPEEDWAY DRIVE

R/L SPEEDWAY DRIVE

PROP R/W

TLE

EXIST R/W

MATCH LINE STA 947+00

USH 45

R/L USH 45

EXIST R/W

PROP R/W

TLE

MATCH LINE STA 961+50

EXIST R/W

PROP R/W

R/L SPEEDWAY DRIVE

EXIST R/W

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 1 & 2	SHEET 103	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022001-EC2.DWG
LAYOUT NAME - 022004-ec2

PLOT DATE : 5/31/2023 9:11 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT

N

END PROJECT
STA 968+80.00

END CONSTRUCTION
STA 971+50.00

USH 45

R/L USH 45

R/L VENTURE DRIVE

R/L WHITNALL EDGE ROAD

VENTURE DRIVE

WHITNALL EDGE ROAD

COLLEGE AVENUE

MATCH LINE STA 961+50

TLE

EXIST R/W

PROP R/W

963 964 965 966 967 968 969 970 971 972 973 974 975

601 602 603 651 652 653 654

SIGN

CANOPY

FILLER CAPS

G.P.

WALLS

2

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT

N

SIGN
SIGN
SIGN
R/L USH 45
USH 45
MATCHLINE STA 905+00
INL
INL
BEGIN CONSTRUCTION
STA 904+00.00
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904

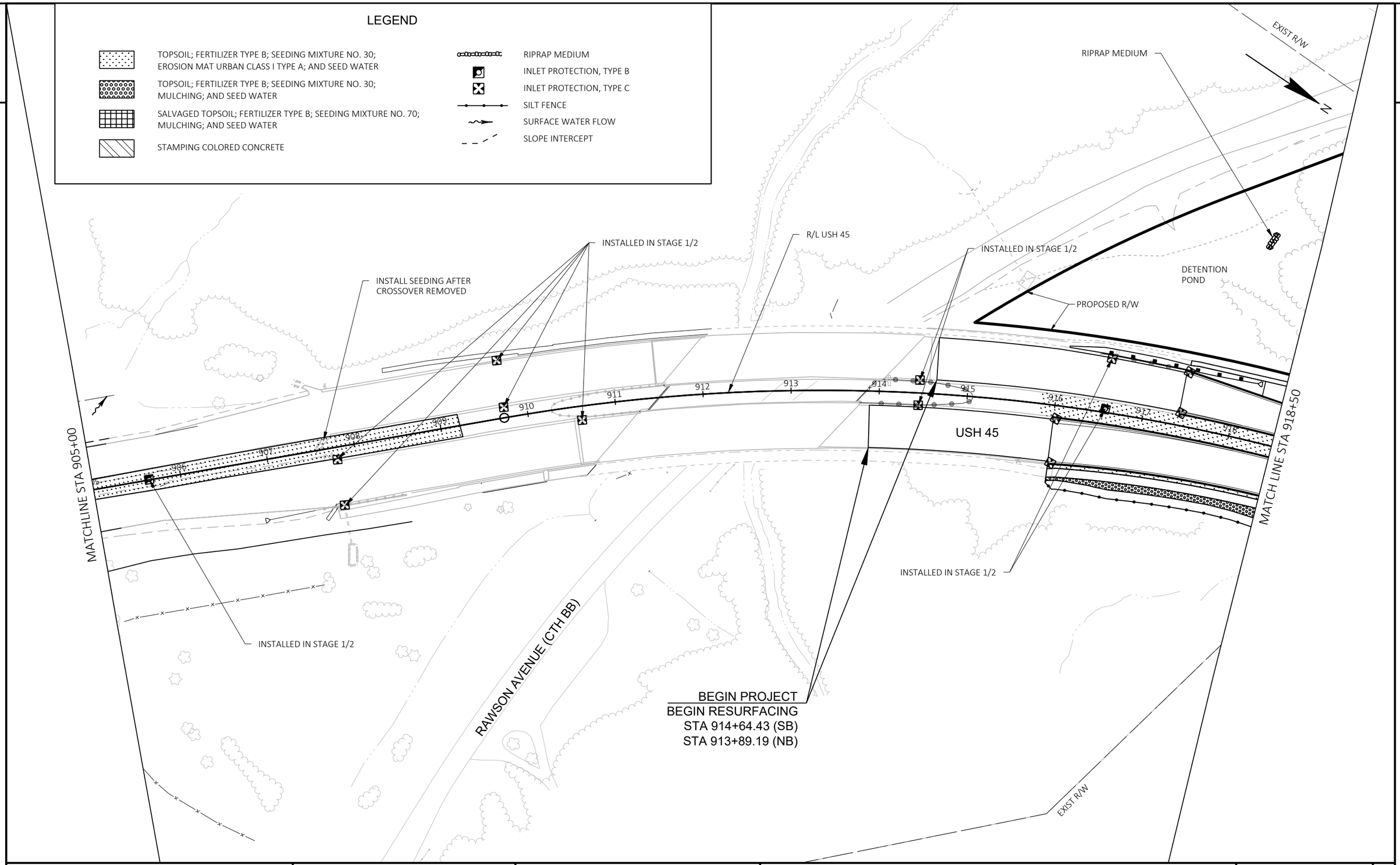
2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 3 & 4	SHEET 105	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022001-EC3.DWG
LAYOUT NAME - 022000-ec3
PLOT DATE : 5/31/2023 9:15 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 3 & 4	SHEET 106	E

2

N

245
246
247
248
RIPRAP MEDIUM
PROPOSED R/W
RAWSON NW RAMP
R/L RAWSON NW RAMP
INL
TLE
DETENTION POND
A/C
R/L FRONTAGE ROAD WEST
TLE
PROP R/W
EXIST R/W
R/L USH 45
TLE
326
327
328
329
330
FRONTAGE ROAD WEST
USH 45
924
925
926
927
928
929
930
931
932
MATCH LINE STA 932+50
MATCH LINE STA 918+50
920
921
922
923
924
351
352
353
354
FRONTAGE ROAD EAST
356
357
358
EXIST R/W
PROP R/W
TLE
TLE
TLE
R/L PHYLLIS LANE
PROP R/W
TLE
EXIST R/W
EXIST R/W
EXIST R/W
PHYLLIS LANE
301
302
303
EXIST R/W
A/C
R/L FRONTAGE ROAD EAST

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 3 & 4	SHEET 107	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022001-EC3.DWG
LAYOUT NAME - 022002-ec3
PLOT DATE : 5/31/2023 9:16 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT

N

MATCH LINE STA 932+50

MATCH LINE STA 947+00

USH 45

CORTEZ CIRCLE

CORTEZ CIRCLE (SOUTH)

CORTEZ CIRCLE (NORTH)

PRAIRIE WOOD LANE

HERDA PLACE

R/L CORTEZ CIRCLE

R/L PRAIRIE WOOD LANE

R/L USH 45

R/L CORTEZ CIRCLE (SOUTH)

R/L CORTEZ CIRCLE (NORTH)

R/L HERDA PLACE

EXIST R/W

PROP R/W

TLE

INL

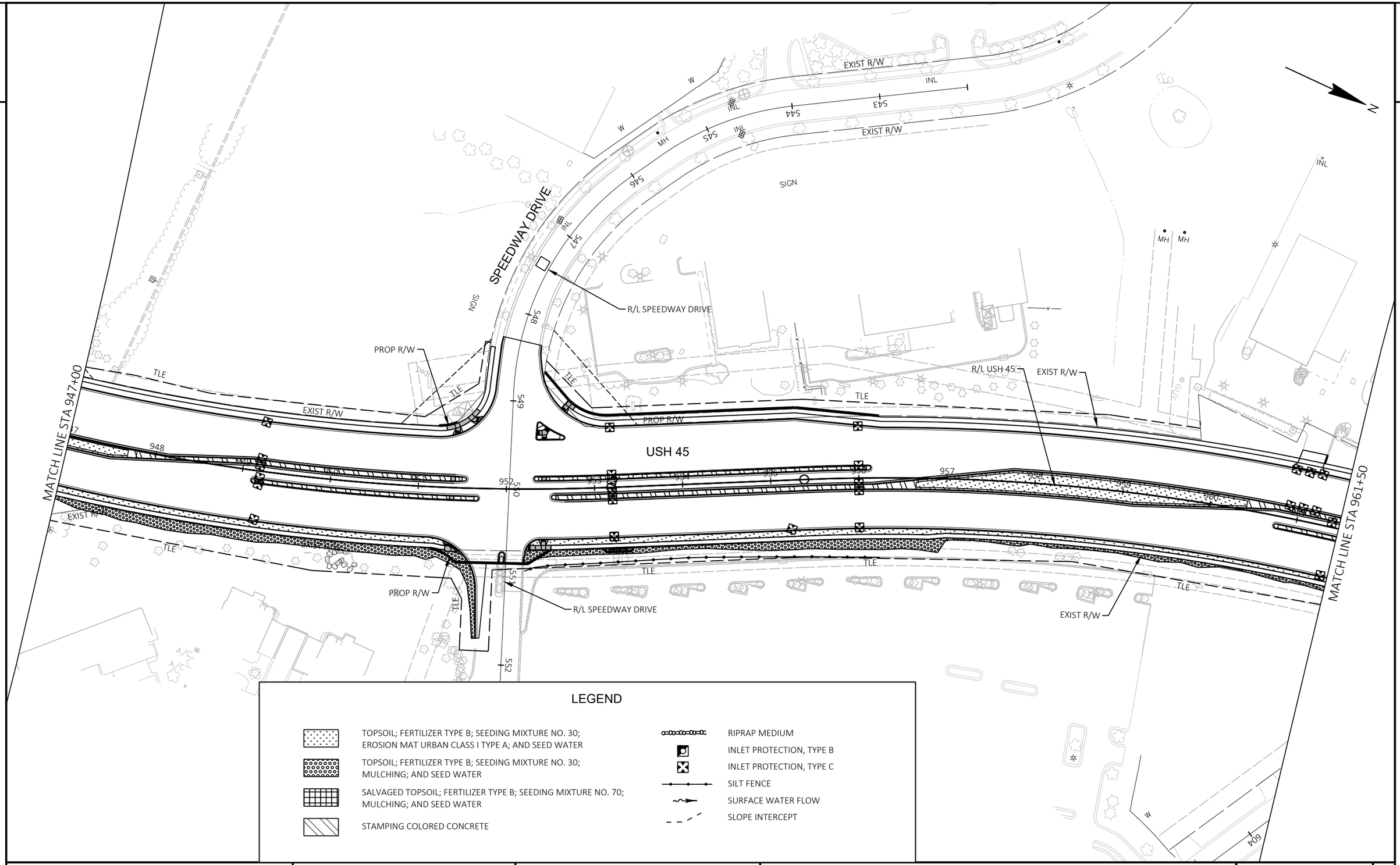
HWY

W

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 3 & 4	SHEET 108	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022001-EC3.DWG
LAYOUT NAME - 022003-ec3
PLOT DATE : 5/31/2023 9:16 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 3 & 4	SHEET 109	E

LEGEND

- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; EROSION MAT URBAN CLASS I TYPE A; AND SEED WATER
- TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; MULCHING; AND SEED WATER
- SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70; MULCHING; AND SEED WATER
- STAMPING COLORED CONCRETE
- RIPRAP MEDIUM
- INLET PROTECTION, TYPE B
- INLET PROTECTION, TYPE C
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT

END PROJECT
STA 968+80.00

END CONSTRUCTION
STA 971+50.00

USH 45

R/L USH 45

MATCH LINE STA 961+50

R/L VENTURE DRIVE

R/L WHITNALL EDGE ROAD

VENTURE DRIVE

WHITNALL EDGE ROAD

COLLEGE AVENUE

EXIST R/W

PROP R/W

TLE

SIGN

CANOPY

FILLER CAPS

WALLS

INL

MH

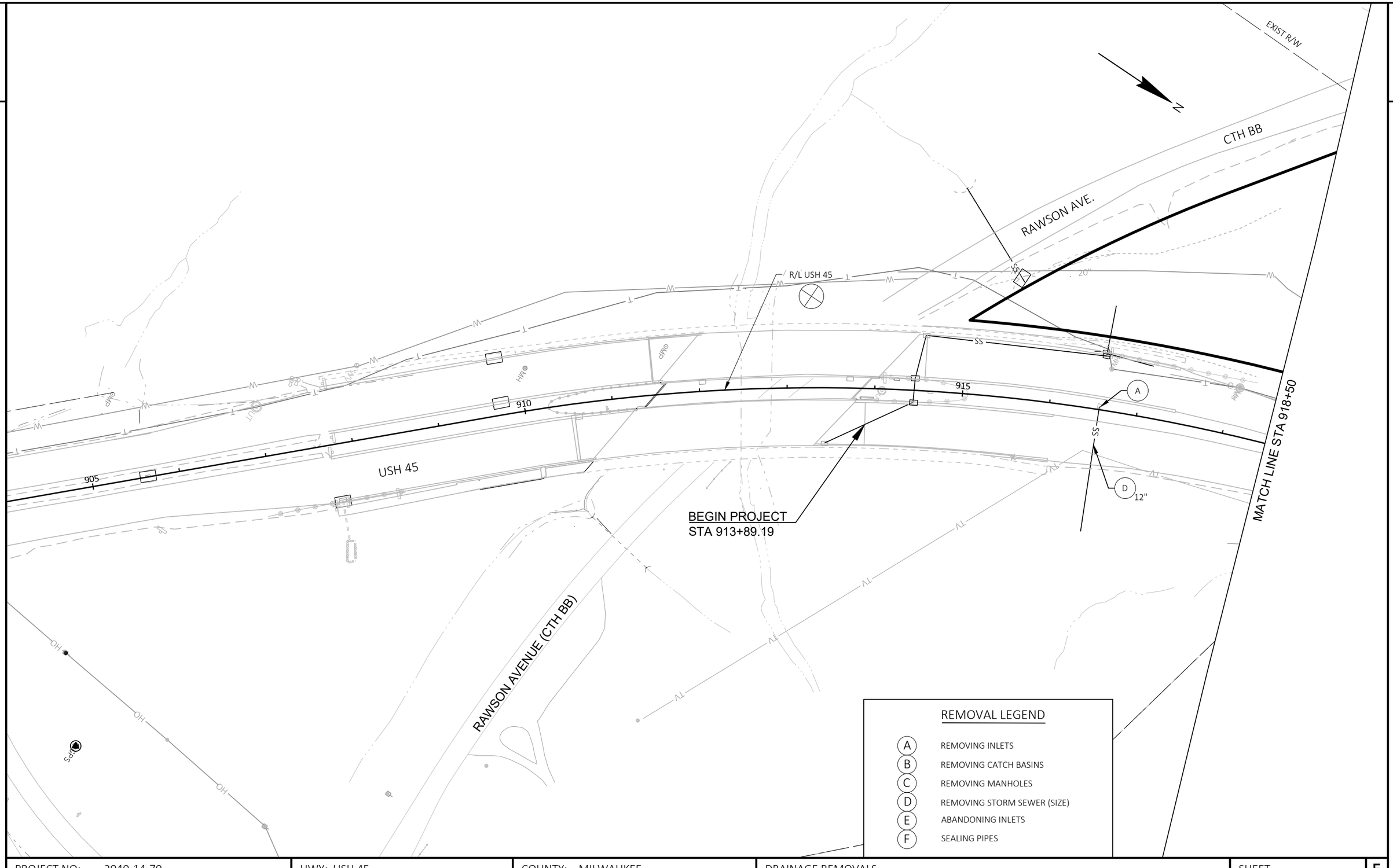
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	EROSION CONTROL STAGE 3 & 4	SHEET 110 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022001-EC3.DWG
LAYOUT NAME - 022005-ec3

PLOT DATE : 5/31/2023 9:16 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	DRAINAGE REMOVALS	SHEET 111	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-UR.DWG
LAYOUT NAME - 021201
PLOT DATE : 4/25/2023 10:12 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

RAWSON NW RAMP

246

R/L RAWSON NW RAMP

R/L FRONTAGE ROAD WEST

R/L USH 45

10" PVC PIPE TO REMAIN

FRONTAGE ROAD WEST

USH 45

EXIST R/W

PROP R/W

TLE

925

930

920

326

328

330

352

354

356

358

304

MATCH LINE STA 918+50

MATCH LINE STA 932+50

REMOVE ENDWALL

18" CONCRETE PIPE TO REMAIN

R/L PHYLLIS LANE

PHYLLIS LANE

R/L FRONTAGE ROAD EAST

FRONTAGE ROAD EAST

6" DRAIN TILE TO REMAIN

NOTE: ABANDONING INLETS AND SEALING PIPES TO BE USED DURING STAGE 2 WHEN SOUTHBOUND ITEMS ARE REMOVED, BUT BEFORE NORTHBOUND ITEMS ARE REMOVED IN STAGE 3.

REMOVAL LEGEND

- A — REMOVING INLETS
- B — REMOVING CATCH BASINS
- C — REMOVING MANHOLES
- D — REMOVING STORM SEWER (SIZE)
- E — ABANDONING INLETS
- F — SEALING PIPES

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	DRAINAGE REMOVALS	SHEET 112	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-UR.DWG
LAYOUT NAME - 021202

PLOT DATE : 4/25/2023 10:12 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

MATCH LINE STA 932+50

MATCH LINE STA 947+00

CORTEZ ROAD

PRAIRIEWOOD LANE

USH 45

HERDA PLACE

CORTEZ CIRCLE (SOUTH)

CORTEZ CIRCLE (NORTH)

N

EXIST R/W

R/L PRAIRIEWOOD LANE

R/L CORTEZ ROAD

REMOVING SMALL PIPE CULVERTS - 18"

REMOVING SMALL PIPE CULVERTS - 18"

REMOVE ENDWALL

6" PVC TO REMAIN

PROP R/W

TLE

4" DRAIN TILE TO REMAIN

R/L USH 45

R/L HERDA PLACE

R/L CORTEZ CIRCLE (SOUTH)

R/L CORTEZ CIRCLE (NORTH)

935

940

945

360

402

404

445

446

448

450

452

498

502

504

REMOVAL LEGEND

- A — REMOVING INLETS
- B — REMOVING CATCH BASINS
- C — REMOVING MANHOLES
- D — REMOVING STORM SEWER (SIZE)
- E — ABANDONING INLETS
- F — SEALING PIPES

NOTE: ABANDONING INLETS AND SEALING PIPES TO BE USED DURING STAGE 2 WHEN SOUTHBOUND ITEMS ARE REMOVED, BUT BEFORE NORTHBOUND ITEMS ARE REMOVED IN STAGE 3.

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	DRAINAGE REMOVALS	SHEET 113	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-UR.DWG
LAYOUT NAME - 021203
PLOT DATE : 4/25/2023 10:12 AM
PLOT BY : THOMAS LEGEAR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

MATCH LINE STA 947+00

MATCH LINE STA 961+50

SPEEDWAY DRIVE

USH 45

R/L SPEEDWAY DRIVE

R/L USH 45

PROP R/W

EXIST R/W

TLE

INL

SS

SAN

W

G

SIGN

MH

950

955

960

548

544

550

552

12" PIPE TO REMAIN

4" DRAIN TILE TO REMAIN

15" PIPE TO REMAIN

6" PIPE TO REMAIN

REMOVAL LEGEND

A	REMOVING INLETS
B	REMOVING CATCH BASINS
C	REMOVING MANHOLES
D	REMOVING STORM SEWER (SIZE)
E	ABANDONING INLETS
F	SEALING PIPES

NOTE: ABANDONING INLETS AND SEALING PIPES TO BE USED DURING STAGE 2 WHEN SOUTHBOUND ITEMS ARE REMOVED, BUT BEFORE NORTHBOUND ITEMS ARE REMOVED IN STAGE 3.

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	DRAINAGE REMOVALS	SHEET 114	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-UR.DWG
LAYOUT NAME - 021204

PLOT DATE : 4/25/2023 10:12 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA 961+50

USH 45 / STH 100

R/L USH 45

EXIST R/W

TLE

PROP R/W

END PROJECT
STA 968+80.00

R/L VENTURE DRIVE

VENTURE DRIVE

R/L WHITNALL EDGE ROAD

WHITNALL EDGE ROAD

COLLEGE AVENUE

962 963 964 965 966 967 968 969 970 971 972 973 974 975

602 652 653 654

36" D 12"

1" WEEP HOLE TO REMAIN

FILLER CAPS

G.P.

CANOPY

SIGN

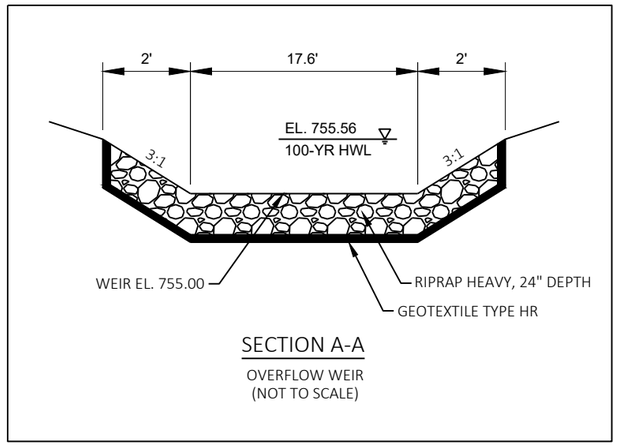
NOTE: ABANDONING INLETS AND SEALING PIPES TO BE USED DURING STAGE 2 WHEN SOUTHBOUND ITEMS ARE REMOVED, BUT BEFORE NORTHBOUND ITEMS ARE REMOVED IN STAGE 3.

REMOVAL LEGEND

A	REMOVING INLETS
B	REMOVING CATCH BASINS
C	REMOVING MANHOLES
D	REMOVING STORM SEWER (SIZE)
E	ABANDONING INLETS
F	SEALING PIPES

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	DRAINAGE REMOVALS	SHEET 115	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\021201-UR.DWG
LAYOUT NAME - 021205
PLOT DATE : 4/29/2023 2:54 PM PLOT BY : JAKE BONDHUS PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



SECTION A-A

OVERFLOW WEIR
(NOT TO SCALE)

DRY-BOTTOM DETENTION POND

50-YR STORAGE = 0.95 AC-FT
50-YR HWL = 753.56
100-YR HWL = 755.66
OUTLET ELEV. = 747.55

STA 917+97, 214.7' L
APRON ENDWALLS FOR CPRC 15-INCH
AEW 440

STA 917+40, 212.0' L
APRON ENDWALLS FOR CPRC 36-INCH
INVERT 747.55'

36" OUTLET PIPE, 107 LF @ 0.5%
WITH OUTLET CONTROL STRUCTURE
(21" RESTRICTOR)

STA 916+50, 179.2' L
APRON ENDWALLS FOR CPRC 36-INCH
INVERT 747.00'

RIPRAP HEAVY AND GEOTEXTILE TYPE HR

RIPRAP MEDIUM AND GEOTEXTILE TYPE HR

PROPOSED R/W

EXIST R/W

W RAWSON AVE (CTH BB)

MAINTENANCE ACCESS

R/L RAWSON NW RAMP

RAWSON NW RAMP

AEW 420
STA 918+72, 246.1' L
APRON ENDWALLS FOR CPRC 36-INCH

42
STA 920+00, 97.0' L
MANHOLES 6-J

760
755
750
748
765
4:1
50-YR HWL
246
248
A
A
20"

104 FT CPRC CLASS III 36-INCH

44.4 TO AEW 440
164 FT SSPRC CLASS III 15-INCH

42 TO AEW 420
203 FT SSPRC CLASS III 36-INCH

40 TO 42
87 FT SSPRC CLASS III 36-INCH

N

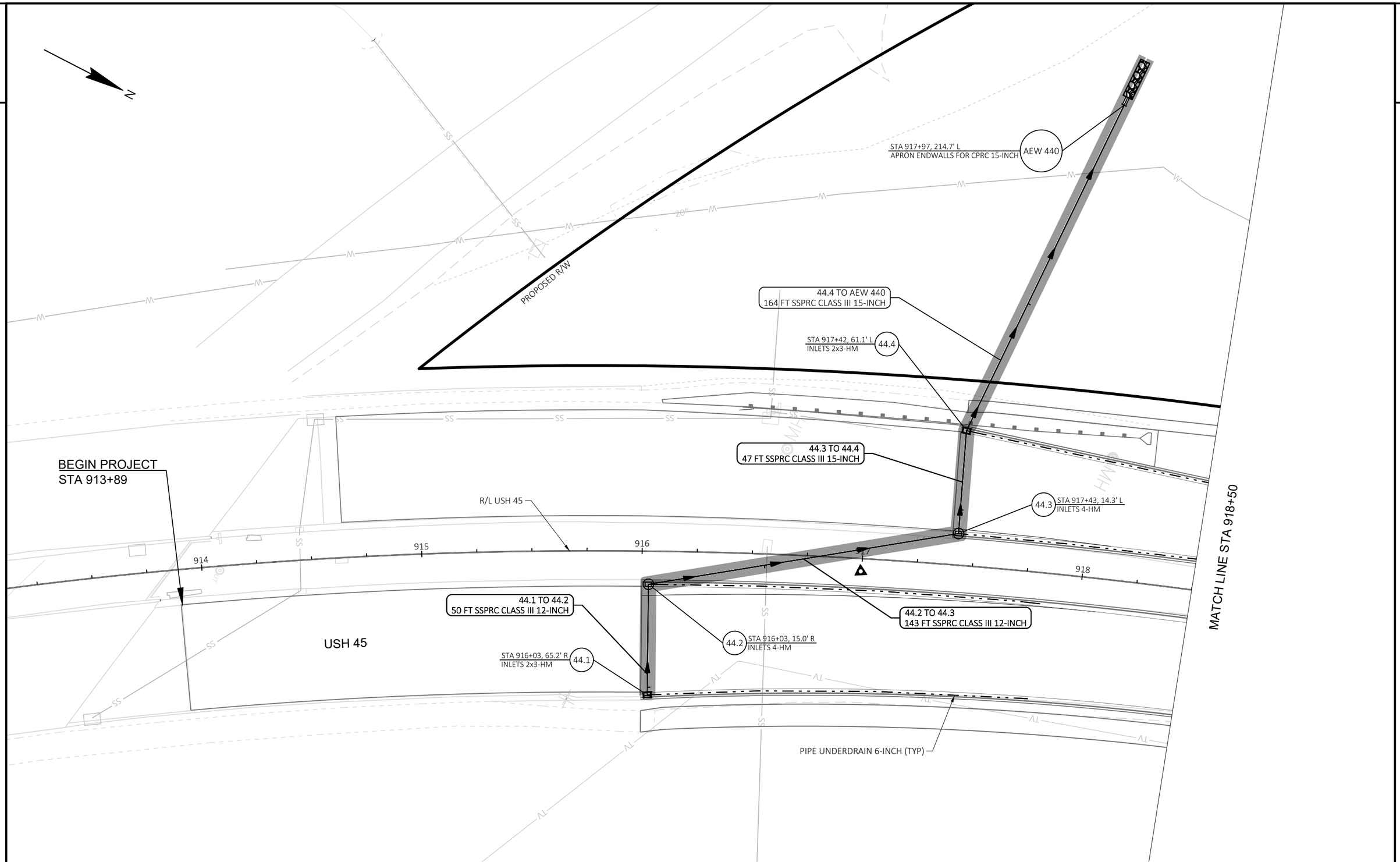
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM WATER DETENTION POND	SHEET 116	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022502-SS.DWG
LAYOUT NAME - 022512

PLOT DATE : 5/31/2023 3:21 PM PLOT BY : AMBER WALTERS PLOT NAME : PLOT SCALE : 1 IN:40 FT

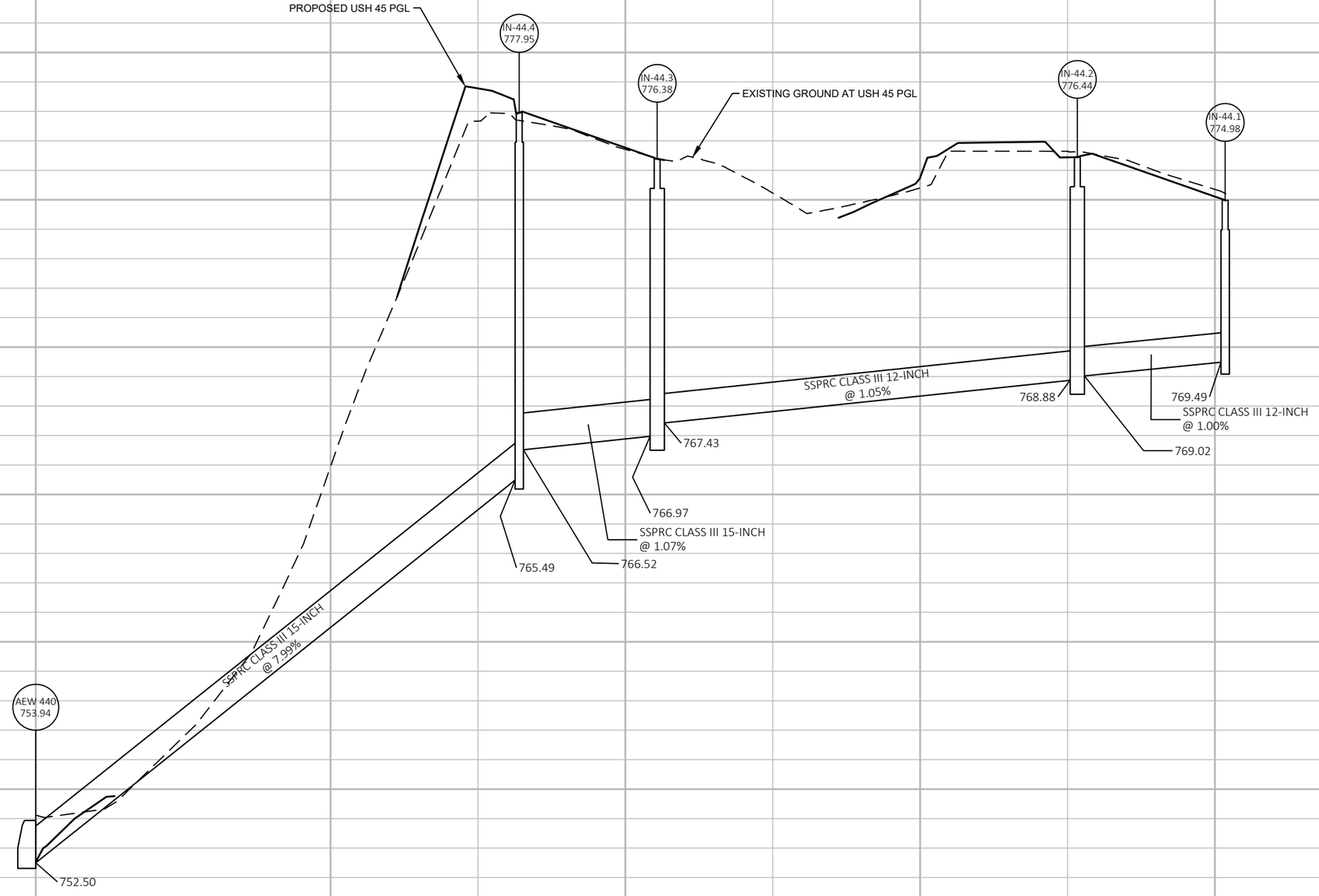
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 117	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 1al
PLOT DATE : 4/28/2023 10:13 PM
PLOT BY : THOMAS LEGEAR
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 118 E

AEW 420
STA 918+72, 246.1' L
APRON ENDWALLS FOR CPRC 36-INCH

42 TO AEW 420
203 FT SSPRC CLASS III 36-INCH

40 TO 42
87 FT SSPRC CLASS III 36-INCH

PROPOSED R/W

R/L RAWSON
NW RAMP

248

42
STA 920+00, 97.0' L
MANHOLES 6-J

RAWSON NW RAMP

TLE

EXIST R/W

INT

USH 45

38 TO 40
186 FT SSPRC CLASS III 36-INCH

STA 922+10, 8.0' L
MANHOLES 6-J
38

34 TO 36
80 FT SSPRC CLASS III 36-INCH

34.8 TO 34.7
18 FT SSPRC CLASS III 12-INCH

34.1 TO 34.2
43 FT SSPRC CLASS III 12-INCH

STA 924+00, 64.0' L
INLETS 2x3-H
34.2

34.2 TO 34.3
8 FT SSPRC CLASS III 12-INCH

34.3 TO 34
48 FT SSPRC CLASS III 12-INCH

STA 924+35, 88.0' L
INLETS 2x3-H
34.1

R/L FRONTAGE
ROAD WEST

34.4 TO 34
7 FT SSPRC CLASS III 18-INCH

34.5 TO 34.4
12 FT SSPRC CLASS III 15-INCH

STA 924+00, 10.9' R
INLETS 4-HM
34.5

34.7 TO 34.6
5 FT SSPRC CLASS III 12-INCH

34.6 TO 34.5
53 FT SSPRC CLASS III 12-INCH

STA 924+23, 59.0' R
INLETS 2x2.5-BW
34.6

PROPOSED R/W

TLE

326

STA 924+22, 64.2' R
INLETS 2x2.5-BW
34.7

34.3
STA 924+00, 56.0' L
INLETS 2x3-H

34
STA 924+00, 8.0' L
MANHOLES 6-J

34.4
STA 924+00, 0.8' L
INLETS 2x3-H

STA 920+25, 14.0' L
MANHOLES 6-C
40

R/L USH 45

919 920 921 922 923

PIPE UNDERDRAIN 6-INCH (TYP)

36 TO 38
111 FT SSPRC CLASS III 36-INCH

STA 923+20, 6.0' L
MANHOLES 6-J
36

R/L PHYLLIS LANE

36.3 TO 36
72 FT SSPRC CLASS III 24-INCH

40.2 TO 40
16 FT SSPRC CLASS III 15-INCH

40.1 TO 40.2
54 FT SSPRC CLASS III 12-INCH

STA 923+19, 65.6' R
INLETS 4-HM
36.3

EXIST R/W

R/L FRONTAGE
ROAD EAST

TLE

36.2 TO 36.3
66 FT SSPRC CLASS III 12-INCH

STA 923+25, 131.5' R
INLETS 4-H
36.2

36.1 TO 36.2
37 FT SSPRC CLASS III 12-INCH

PHYLLIS LANE

STA 924+21, 82.1' R
INLETS 3-Z
34.8

EXIST R/W

TLE

36.1
STA 923+65, 130.5' R
INLETS 4-H

STA 920+25, 2.0' R
INLETS 2x3-HM
40.2

40.1
STA 920+25, 56.0' R
INLETS 2x3-HM

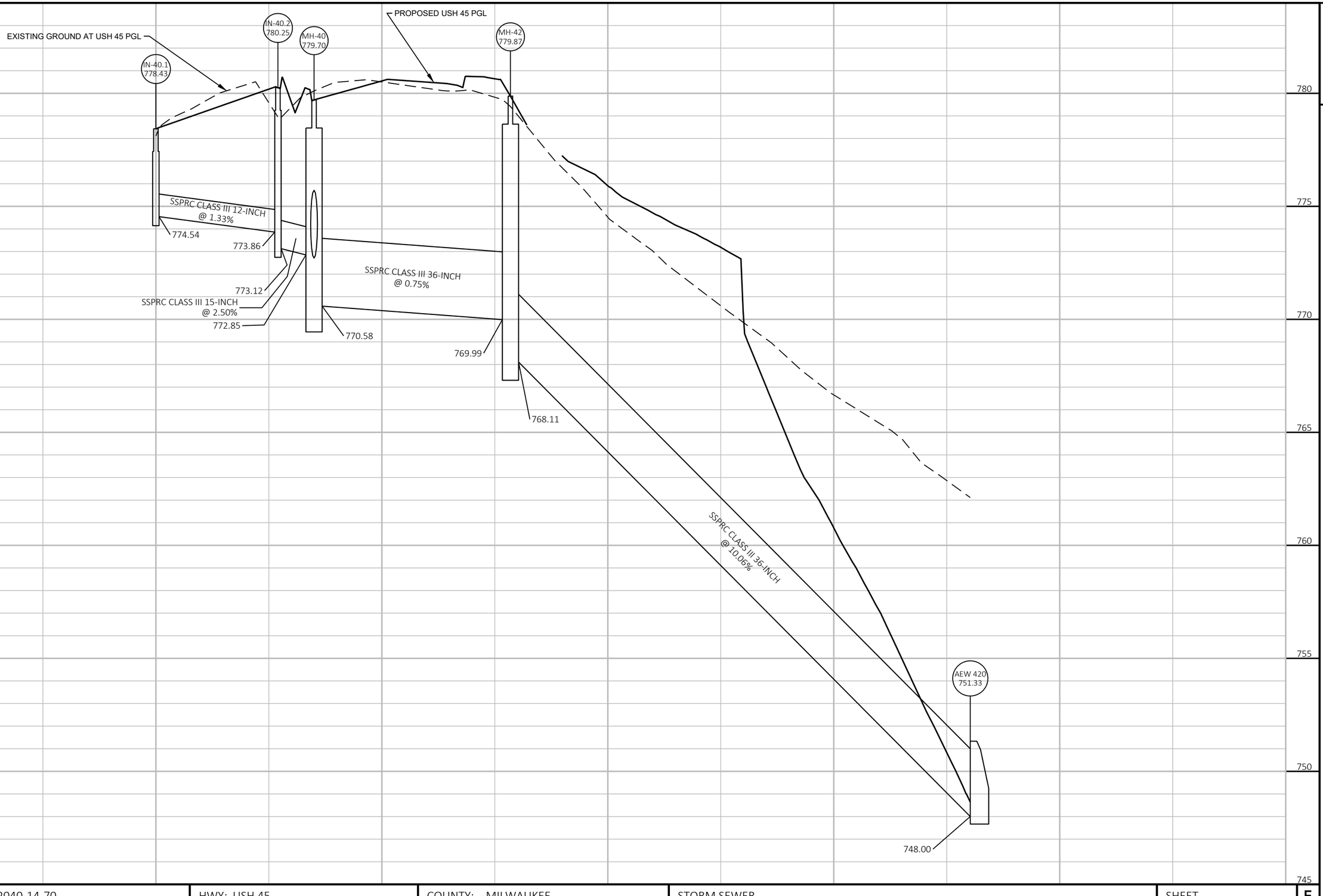
MATCH LINE STA 918+50

MATCH LINE STA 924+50

N

2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 119	E



2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 120	E

AEW 420 STA 918+72, 246.1' L
APRON ENDWALLS FOR CPRC 36-INCH

42 STA 920+00, 97.0' L
MANHOLES 6-J

R/L RAWSON NW RAMP

248

RAWSON NW RAMP

TLE

EXIST R/W

TNI

42 TO AEW 420
203 FT SSPRC CLASS III 36-INCH

40 TO 42
87 FT SSPRC CLASS III 36-INCH

PROPOSED R/W

USH 45

38 TO 40
186 FT SSPRC CLASS III 36-INCH

38 STA 922+10, 8.0' L
MANHOLES 6-J

34 TO 36
80 FT SSPRC CLASS III 36-INCH

34.1 TO 34.2
43 FT SSPRC CLASS III 12-INCH

34.2 STA 924+00, 64.0' L
INLETS 2x3-H

34.2 TO 34.3
8 FT SSPRC CLASS III 12-INCH

34.1 STA 924+35, 88.0' L
INLETS 2x3-H

34.3 TO 34
48 FT SSPRC CLASS III 12-INCH

R/L FRONTAGE ROAD WEST

34.4 TO 34
7 FT SSPRC CLASS III 18-INCH

34.5 TO 34.4
12 FT SSPRC CLASS III 15-INCH

34.5 STA 924+00, 10.9' R
INLETS 4-HM

34.7 TO 34.6
5 FT SSPRC CLASS III 12-INCH

34.6 TO 34.5
53 FT SSPRC CLASS III 12-INCH

34.6 STA 924+23, 59.0' R
INLETS 2x2.5-BW

34.7 STA 924+22, 64.2' R
INLETS 2x2.5-BW

34.8 TO 34.7
18 FT SSPRC CLASS III 12-INCH

34.3 STA 924+00, 56.0' L
INLETS 2x3-H

34 STA 924+00, 8.0' L
MANHOLES 6-J

34.4 STA 924+00, 0.8' L
INLETS 2x3-H

326

MATCH LINE STA 918+50

R/L USH 45

40 STA 920+25, 14.0' L
MANHOLES 6-C

919 920 921 922 923

PIPE UNDERDRAIN 6-INCH (TYP)

36 TO 38
111 FT SSPRC CLASS III 36-INCH

36 STA 923+20, 6.0' L
MANHOLES 6-J

R/L PHYLLIS LANE

36.3 TO 36
72 FT SSPRC CLASS III 24-INCH

40.2 TO 40
16 FT SSPRC CLASS III 15-INCH

40.1 TO 40.2
54 FT SSPRC CLASS III 12-INCH

40.2 STA 920+25, 2.0' R
INLETS 2x3-HM

40.1 STA 920+25, 56.0' R
INLETS 2x3-HM

36.3 STA 923+19, 65.6' R
INLETS 4-HM

EXIST R/W

R/L FRONTAGE ROAD EAST

TLE

36.2 TO 36.3
66 FT SSPRC CLASS III 12-INCH

36.2 STA 923+25, 131.5' R
INLETS 4-H

36.1 TO 36.2
37 FT SSPRC CLASS III 12-INCH

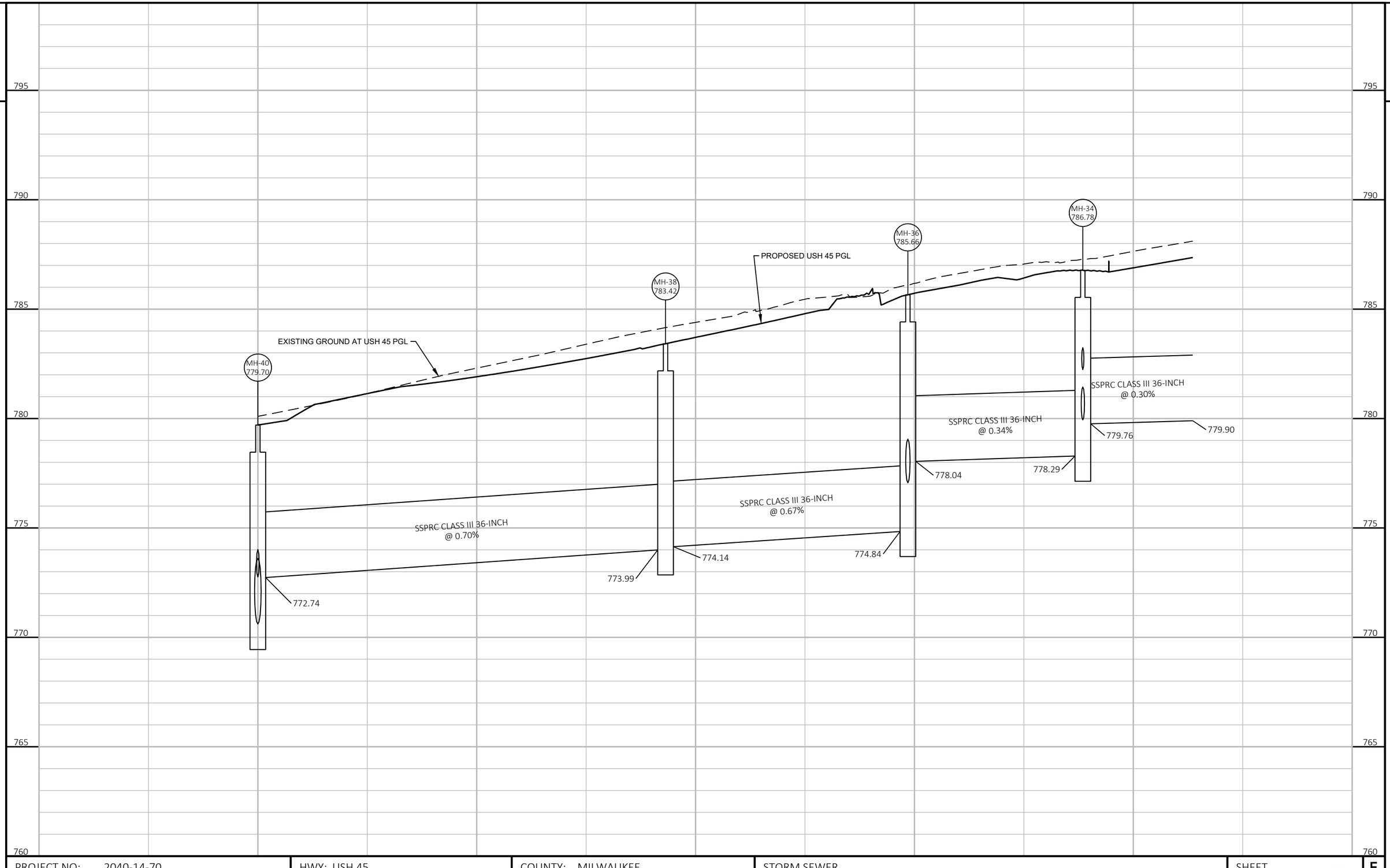
PHYLLIS LANE

34.8 STA 924+21, 82.1' R
INLETS 3-Z

36.1 STA 923+65, 130.5' R
INLETS 4-H

MATCH LINE STA 924+50

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 121	E



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 122	E

2

AEW 420 STA 918+72, 246.1' L
APRON ENDWALLS FOR CPRC 36-INCH

R/L RAWSON NW RAMP

248

42 STA 920+00, 97.0' L
MANHOLES 6-J

RAWSON NW RAMP

42 TO AEW 420
203 FT SSPRC CLASS III 36-INCH

40 TO 42
87 FT SSPRC CLASS III 36-INCH

PROPOSED R/W

TLE

EXIST R/W

USH 45

38 TO 40
186 FT SSPRC CLASS III 36-INCH

STA 922+10, 8.0' L
MANHOLES 6-J 38

34 TO 36
80 FT SSPRC CLASS III 36-INCH

34.1 TO 34.2
43 FT SSPRC CLASS III 12-INCH

STA 924+00, 64.0' L
INLETS 2x3-H 34.2

34.2 TO 34.3
8 FT SSPRC CLASS III 12-INCH

34.3 TO 34
48 FT SSPRC CLASS III 12-INCH

STA 924+35, 88.0' L
INLETS 2x3-H 34.1

R/L FRONTAGE ROAD WEST

34.4 TO 34
7 FT SSPRC CLASS III 18-INCH

34.5 TO 34.4
12 FT SSPRC CLASS III 15-INCH

STA 924+00, 10.9' R
INLETS 4-HM 34.5

34.7 TO 34.6
5 FT SSPRC CLASS III 12-INCH

34.6 TO 34.5
53 FT SSPRC CLASS III 12-INCH

STA 924+23, 59.0' R
INLETS 2x2.5-BW 34.6

PROPOSED R/W

326

STA 924+22, 64.2' R
INLETS 2x2.5-BW 34.7

34.8 TO 34.7
18 FT SSPRC CLASS III 12-INCH

34.3 STA 924+00, 56.0' L
INLETS 2x3-H

34 STA 924+00, 8.0' L
MANHOLES 6-J

34.4 STA 924+00, 0.8' L
INLETS 2x3-H

MATCH LINE STA 918+50

R/L USH 45

STA 920+25, 14.0' L
MANHOLES 6-C 40

919 920 921 922 923

248

PIPE UNDERDRAIN 6-INCH (TYP)

36 TO 38
111 FT SSPRC CLASS III 36-INCH

STA 923+20, 6.0' L
MANHOLES 6-J 36

R/L PHYLLIS LANE

36.3 TO 36
72 FT SSPRC CLASS III 24-INCH

40.2 TO 40
16 FT SSPRC CLASS III 15-INCH

40.1 TO 40.2
54 FT SSPRC CLASS III 12-INCH

STA 920+25, 2.0' R
INLETS 2x3-HM 40.2

40.1 STA 920+25, 56.0' R
INLETS 2x3-HM

STA 923+19, 65.6' R
INLETS 4-HM 36.3

EXIST R/W

TLE

36.2 TO 36.3
66 FT SSPRC CLASS III 12-INCH

STA 923+25, 131.5' R
INLETS 4-H 36.2

36.1 TO 36.2
37 FT SSPRC CLASS III 12-INCH

PHYLLIS LANE

R/L FRONTAGE ROAD EAST

STA 924+21, 82.1' R
INLETS 3-Z 34.8

EXIST R/W

TLE

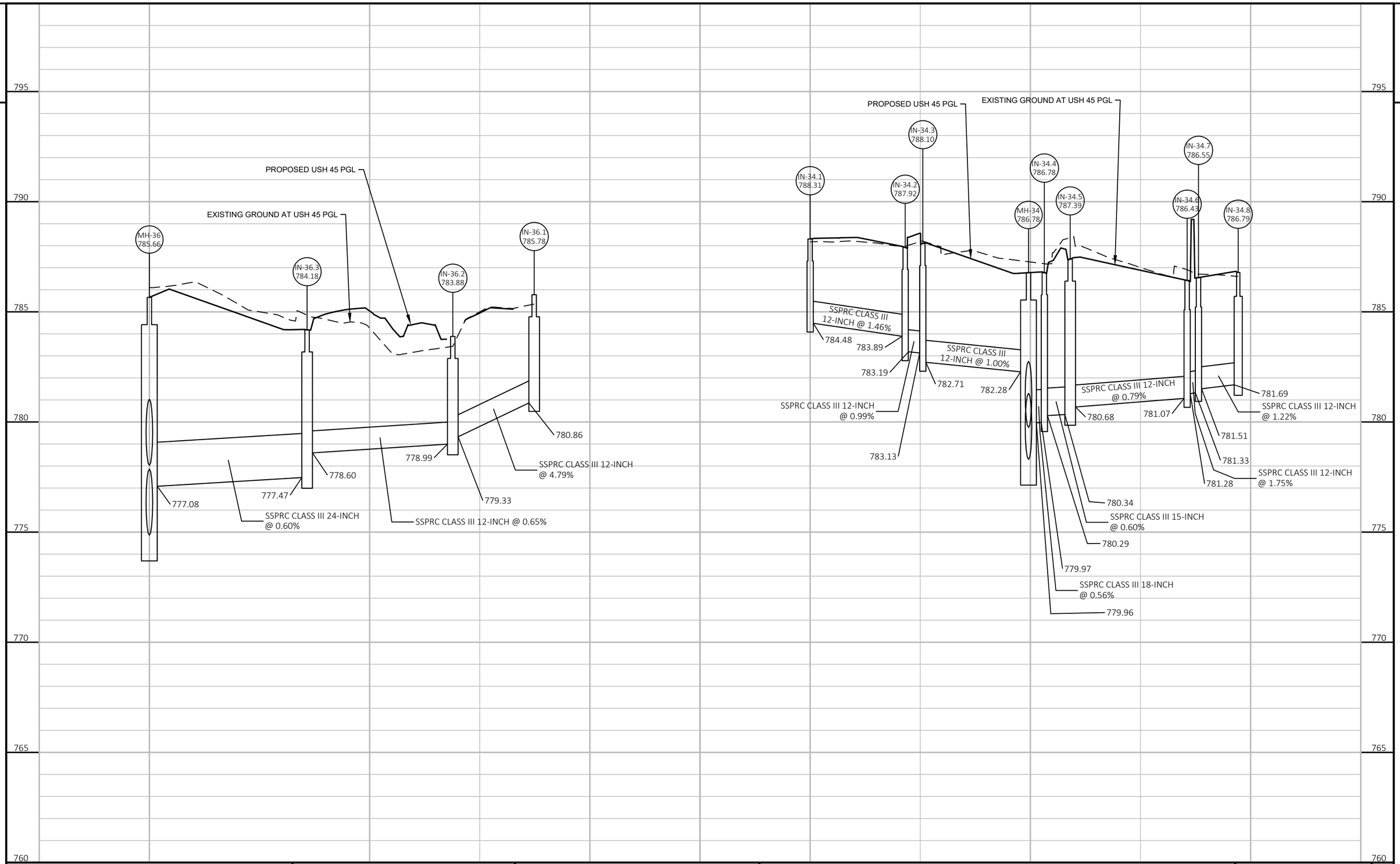
36.1 STA 923+65, 130.5' R
INLETS 4-H

MATCH LINE STA 924+50

N

2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 123	E



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 124 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 2cr

PLOT DATE : 4/28/2023 10:16 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

32.1 TO 32.2
24 FT SSPRC CLASS III 12-INCH

32.1 STA 926+15, 88.0' L
INLETS 2x3-H

STA 926+15, 64.0' L 32.2
INLETS 2x3-H

STA 926+15, 56.0' L 32.3
INLETS 2x3-H

30.1 STA 928+25, 57.6' L
INLETS 2x3-H

CONNECT TO EXISTING 12" PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

STA 930+50, 56.0' L 28.1
INLETS 2x3-H

30.1 TO 30.2
44 FT SSPRC CLASS III 12-INCH

28.1 TO 28.2
42 FT SSPRC CLASS III 12-INCH

28 TO 30
225 FT SSPRC CLASS III 36-INCH

TLE

PROPOSED R/W

R/L FRONTAGE ROAD WEST

328

32.2 TO 32.3
8 FT SSPRC CLASS III 12-INCH

330

FRONTAGE ROAD WEST

STA 930+50, 14.0' L 28.2
INLETS 2x3-H

TLE

EXIST R/W

32.3 TO 32.4
42 FT SSPRC CLASS III 12-INCH

32.4 STA 926+15, 14.0' L
INLETS 2x3-H

30.2 TO 30
6 FT SSPRC CLASS III 15-INCH

30.2 STA 928+25, 14.0' L
INLETS 2x3-H

28.2 TO 28
6 FT SSPRC CLASS III 15-INCH

STA 926+15, 8.0' L 32
MANHOLES 6-J

32.4 TO 32
6 FT SSPRC CLASS III 15-INCH

30 TO 32
210 FT SSPRC CLASS III 36-INCH

30 STA 928+25, 8.0' L
MANHOLES 6-J

STA 930+50, 8.0' L 28
MANHOLES 6-J

28.3 TO 28
15 FT SSPRC CLASS III 18-INCH

32 TO 34
216 FT SSPRC CLASS III 36-INCH

925 926 927 928 929 930

R/L USH 45

32.5 TO 32
22 FT SSPRC CLASS III 15-INCH

32.6 TO 32.5
45 FT SSPRC CLASS III 15-INCH

30.4 TO 30.3
45 FT SSPRC CLASS III 12-INCH

30.3 TO 30
22 FT SSPRC CLASS III 15-INCH

STA 930+50, 7.4' R 28.3
INLETS 2x3-H

28.4 TO 28.3
52 FT SSPRC CLASS III 15-INCH

USH 45

STA 926+15, 14.0' R 32.5
INLETS 2x3-H

32.6 STA 926+15, 59.0' R
INLETS 2x2.5-BW

PIPE UNDERDRAIN 6-INCH (TYP)

STA 928+25, 59.0' R 30.4
INLETS 2x2.5-BW

30.3 STA 928+25, 14.0' R
INLETS 2x3-H

STA 930+50, 59.0' R 28.4
INLETS 2x2.5-BW

MATCH LINE STA 924+50

352 354 356

FRONTAGE ROAD EAST

R/L FRONTAGE ROAD EAST

28.5 TO 28.4
5 FT SSPRC CLASS III 12-INCH

PROPOSED R/W

EXIST R/W

TLE

32.7 TO 32.6
5 FT SSPRC CLASS III 12-INCH

STA 930+50, 63.8' R 28.5
INLETS 2x2.5-BW

TLE

32.8 TO 32.7
18 FT SSPRC CLASS III 12-INCH

32.7 STA 926+15, 63.8' R
INLETS 2x2.5-BW

30.6 TO 30.5
18 FT SSPRC CLASS III 12-INCH

30.5 TO 30.4
5 FT SSPRC CLASS III 12-INCH

STA 926+15, 82.0' R 32.8
INLETS 3-Z

STA 928+25, 82.0' R 30.6
INLETS 3-Z

30.5 STA 928+25, 63.8' R
INLETS 2x2.5-BW

28.6 TO 28.5
18 FT SSPRC CLASS III 12-INCH

STA 930+50, 82.0' R 28.6
INLETS 3-Z

A/C

MATCH LINE STA 930+60

2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 125	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 3al

PLOT DATE : 4/28/2023 10:17 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

805

800

795

790

785

780

775

770

EXISTING GROUND AT USH 45 PGL

PROPOSED USH 45 PGL

MH-32
791.65

MH-30
795.50

MH-28
798.36

SSPRC CLASS III 36-INCH
@ 0.30%

SSPRC CLASS III 36-INCH
@ 0.68%

SSPRC CLASS III 36-INCH
@ 0.80%

779.90

780.38

780.99

782.37

783.20

784.93

785.68

785.71

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 126	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 3ar

PLOT DATE : 4/28/2023 10:17 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

32.1 TO 32.2
24 FT SSPRC CLASS III 12-INCH

32.1 STA 926+15, 88.0' L
INLETS 2x3-H

STA 926+15, 64.0' L 32.2
INLETS 2x3-H

STA 926+15, 56.0' L 32.3
INLETS 2x3-H

TLE

PROPOSED R/W

R/L FRONTAGE ROAD WEST

328

32.2 TO 32.3
8 FT SSPRC CLASS III 12-INCH

330

FRONTAGE ROAD WEST

32.3 TO 32.4
42 FT SSPRC CLASS III 12-INCH

32.4 STA 926+15, 14.0' L
INLETS 2x3-H

STA 926+15, 8.0' L 32
MANHOLES 6-J

32.4 TO 32
6 FT SSPRC CLASS III 15-INCH

32 TO 34
216 FT SSPRC CLASS III 36-INCH

30 TO 32
210 FT SSPRC CLASS III 36-INCH

925 926 927 928

R/L USH 45

32.5 TO 32
22 FT SSPRC CLASS III 15-INCH

32.6 TO 32.5
45 FT SSPRC CLASS III 15-INCH

STA 926+15, 14.0' R 32.5
INLETS 2x3-H

32.6 STA 926+15, 59.0' R
INLETS 2x2.5-BW

PIPE UNDERDRAIN 6-INCH (TYP)

USH 45

MATCH LINE STA 924+50

352

FRONTAGE ROAD EAST

354

EXIST R/W

TLE

32.8 TO 32.7
18 FT SSPRC CLASS III 12-INCH

32.7 TO 32.6
5 FT SSPRC CLASS III 12-INCH

32.7 STA 926+15, 63.8' R
INLETS 2x2.5-BW

STA 926+15, 82.0' R 32.8
INLETS 3-Z

A/C

30.1 STA 928+25, 57.6' L
INLETS 2x3-H

CONNECT TO EXISTING 12" PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

30.1 TO 30.2
44 FT SSPRC CLASS III 12-INCH

28 TO 30
225 FT SSPRC CLASS III 36-INCH

30.2 TO 30
6 FT SSPRC CLASS III 15-INCH

30.2 STA 928+25, 14.0' L
INLETS 2x3-H

30 STA 928+25, 8.0' L
MANHOLES 6-J

30.4 TO 30.3
45 FT SSPRC CLASS III 12-INCH

30.3 TO 30
22 FT SSPRC CLASS III 15-INCH

STA 928+25, 59.0' R 30.4
INLETS 2x2.5-BW

30.3 STA 928+25, 14.0' R
INLETS 2x3-H

30.6 TO 30.5
18 FT SSPRC CLASS III 12-INCH

30.5 TO 30.4
5 FT SSPRC CLASS III 12-INCH

STA 928+25, 82.0' R 30.6
INLETS 3-Z

30.5 STA 928+25, 63.8' R
INLETS 2x2.5-BW

356

R/L FRONTAGE ROAD EAST

PROPOSED R/W

TLE

28.1 STA 930+50, 56.0' L
INLETS 2x3-H

28.1 TO 28.2
42 FT SSPRC CLASS III 12-INCH

28.2 STA 930+50, 14.0' L
INLETS 2x3-H

EXIST R/W

28.2 TO 28
6 FT SSPRC CLASS III 15-INCH

STA 930+50, 8.0' L 28
MANHOLES 6-J

28.3 TO 28
15 FT SSPRC CLASS III 18-INCH

929 930

28.3 STA 930+50, 7.4' R
INLETS 2x3-H

28.4 TO 28.3
52 FT SSPRC CLASS III 15-INCH

STA 930+50, 59.0' R 28.4
INLETS 2x2.5-BW

28.5 TO 28.4
5 FT SSPRC CLASS III 12-INCH

STA 930+50, 63.8' R 28.5
INLETS 2x2.5-BW

28.6 TO 28.5
18 FT SSPRC CLASS III 12-INCH

STA 930+50, 82.0' R 28.6
INLETS 3-Z

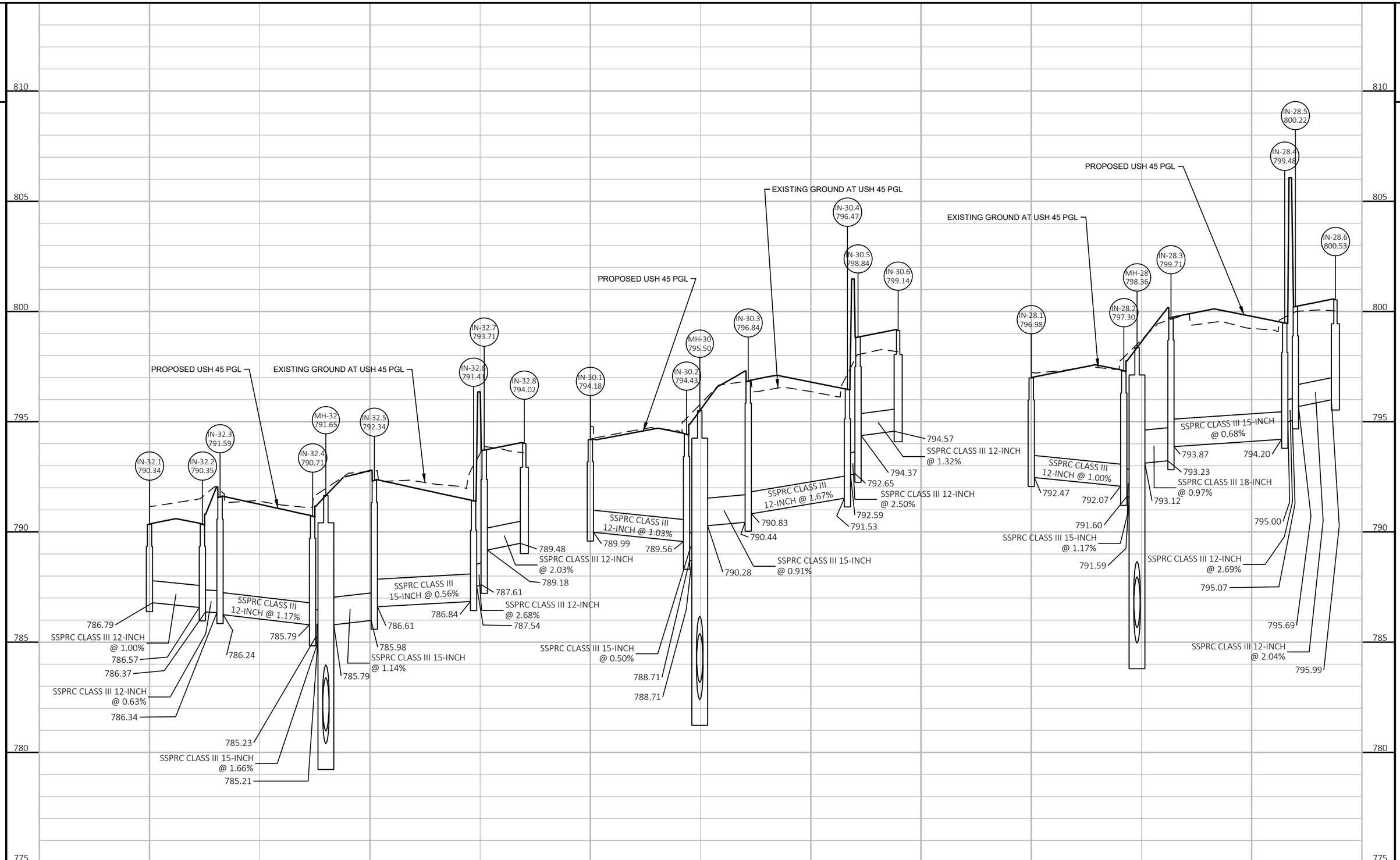
MATCH LINE STA 930+60

2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 127	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 3bl

PLOT DATE : 4/28/2023 10:18 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 128 E

2

2

MATCH LINE STA 930+60

MATCH LINE STA 936+50

N

EXIST R/W

TLE

TLE

EXIST R/W

24.1 STA 934+35, 56.0' L
INLETS 2x3-H

24.1 TO 24
48 FT SSPRC CLASS III 15-INCH

24 STA 934+35, 8.0' L
MANHOLES 6-J

24.2 TO 24
6 FT SSPRC CLASS III 18-INCH

PIPE UNDERDRAIN 6-INCH (TYP)

26.4 TO 26
10 FT SSPRC CLASS III 15-INCH

26 STA 933+25, 8.0' L
MANHOLES 6-J

26 TO 28
275 FT SSPRC CLASS III 36-INCH

24 TO 26
110 FT SSPRC CLASS III 36-INCH

24.2 STA 934+35, 1.6' L
INLETS 2x3-H

22 TO 24
265 FT SSPRC CLASS III 36-INCH

931

932

933

934

935

936

STA 933+30, 1.2' R
INLETS 2x3-H

26.4

24.3 TO 24.2
15 FT SSPRC CLASS III 12-INCH

R/L USH 45

24.3 STA 934+35, 13.6' R
INLETS 2x3-H

26.3 TO 26.4
55 FT SSPRC CLASS III 12-INCH

USH 45

STA 933+40, 55.0' R
INLETS 2x2.5-BW

26.3

24.4 TO 24.3
42 FT SSPRC CLASS III 12-INCH

R/L FRONTAGE ROAD EAST

358

FRONTAGE ROAD EAST

360

EXIST R/W

24.4 STA 934+35, 56.0' R
INLETS 2x3-H

EXIST R/W

PROPOSED R/W

TLE

TLE

24.5 TO 24.4
49 FT SSPRC CLASS III 12-INCH

26.2 TO 26.3
29 FT SSPRC CLASS III 12-INCH

STA 933+50, 82.0' R
INLETS 3-Z

26.2

24.5 STA 933+95, 83.8' R
INLETS 2x3-H

26.1 TO 26.2
24 FT SSPRC CLASS III 12-INCH

STA 933+57, 105.0' R
INLETS 4-H

26.1

HERDA PLACE

WELL

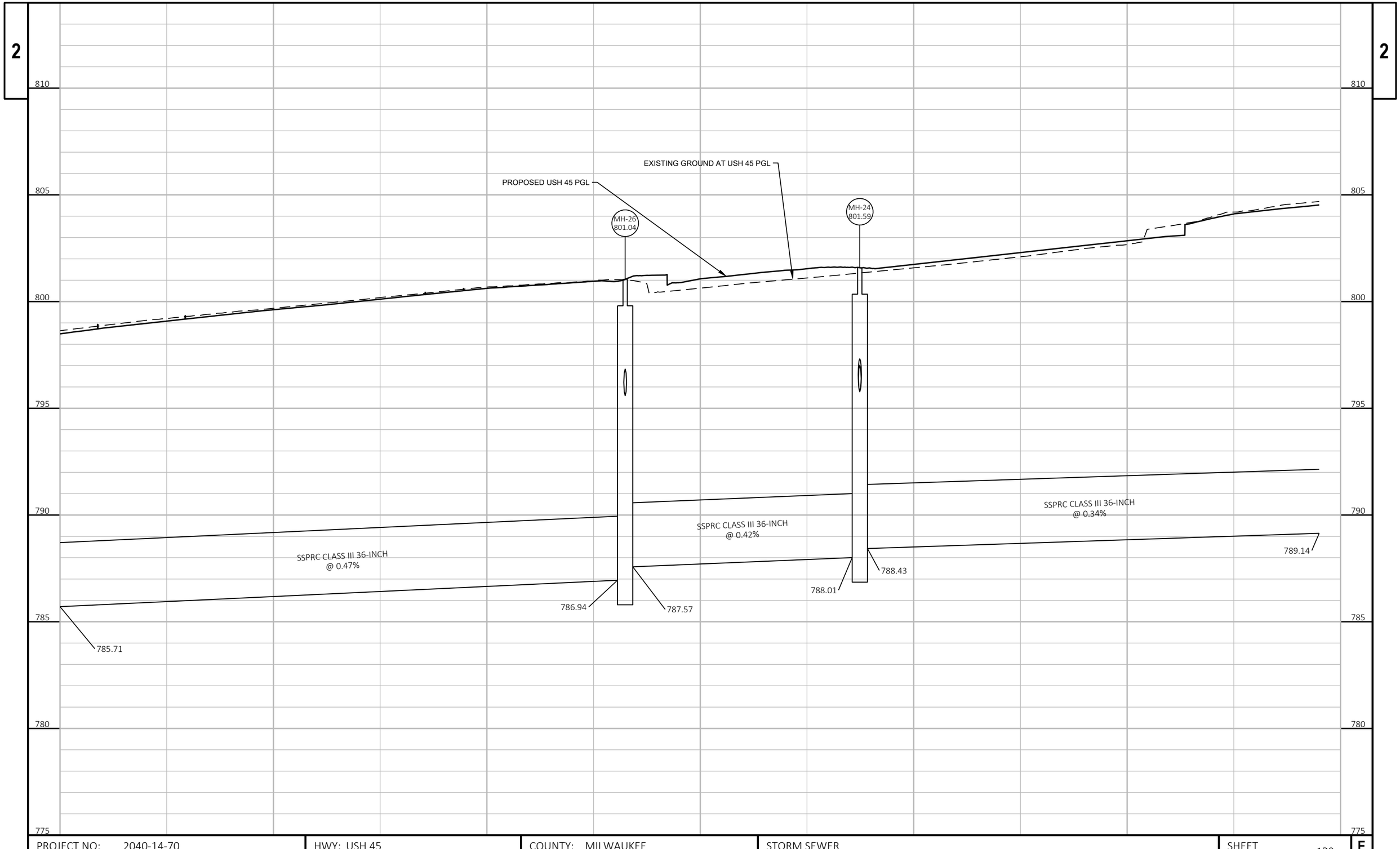
R/L HERDA PLACE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 129	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 4al

PLOT DATE : 4/28/2023 10:19 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 130	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 4ar

PLOT DATE : 4/28/2023 10:19 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

MATCH LINE STA 930+60

MATCH LINE STA 936+50

N

TLE

EXIST R/W

TLE

EXIST R/W

24.1 STA 934+35, 56.0' L
INLETS 2x3-H

24.1 TO 24
48 FT SSPRC CLASS III 15-INCH

24 STA 934+35, 8.0' L
MANHOLES 6-J

24.2 TO 24
6 FT SSPRC CLASS III 18-INCH

PIPE UNDERDRAIN 6-INCH (TYP)

26.4 TO 26
10 FT SSPRC CLASS III 15-INCH

26 STA 933+25, 8.0' L
MANHOLES 6-J

26 TO 28
275 FT SSPRC CLASS III 36-INCH

24 TO 26
110 FT SSPRC CLASS III 36-INCH

24.2 STA 934+35, 1.6' L
INLETS 2x3-H

22 TO 24
265 FT SSPRC CLASS III 36-INCH

931 932 933 934 935 936

STA 933+30, 1.2' R
INLETS 2x3-H 26.4

24.3 TO 24.2
15 FT SSPRC CLASS III 12-INCH

R/L USH 45

26.3 TO 26.4
55 FT SSPRC CLASS III 12-INCH

USH 45

24.3 STA 934+35, 13.6' R
INLETS 2x3-H

STA 933+40, 55.0' R
INLETS 2x2.5-BW 26.3

24.4 TO 24.3
42 FT SSPRC CLASS III 12-INCH

R/L FRONTAGE ROAD EAST

358

FRONTAGE ROAD EAST

360

EXIST R/W

24.4 STA 934+35, 56.0' R
INLETS 2x3-H

EXIST R/W

PROPOSED R/W

TLE

TLE

24.5 TO 24.4
49 FT SSPRC CLASS III 12-INCH

26.2 TO 26.3
29 FT SSPRC CLASS III 12-INCH

24.5 STA 933+95, 83.8' R
INLETS 2x3-H

STA 933+50, 82.0' R
INLETS 3-Z 26.2

26.1 TO 26.2
24 FT SSPRC CLASS III 12-INCH

STA 933+57, 105.0' R
INLETS 4-H 26.1

HERDA PLACE

WELL

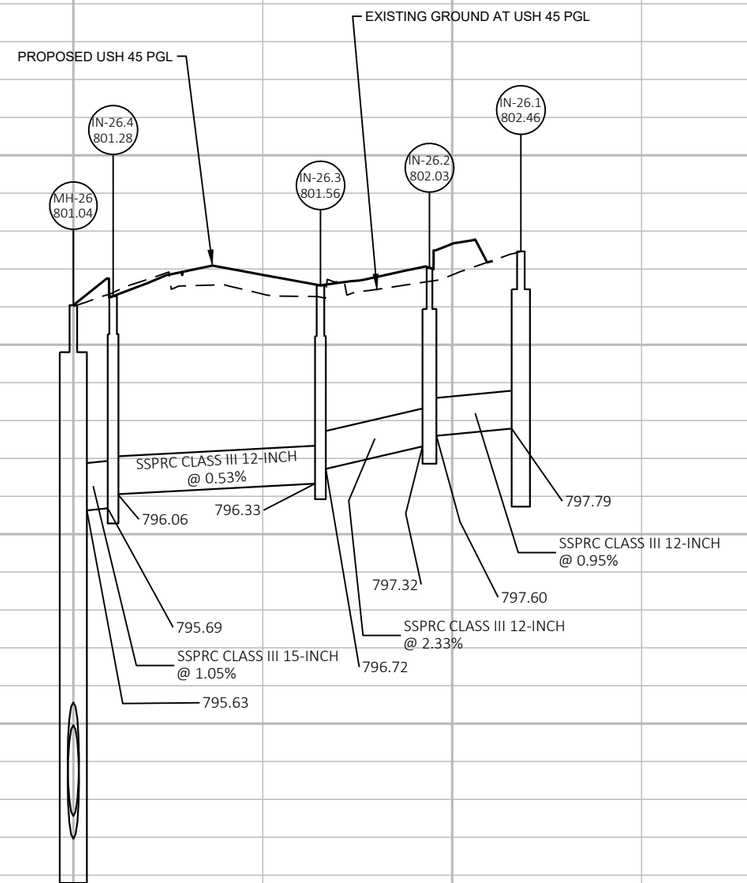
R/L HERDA PLACE

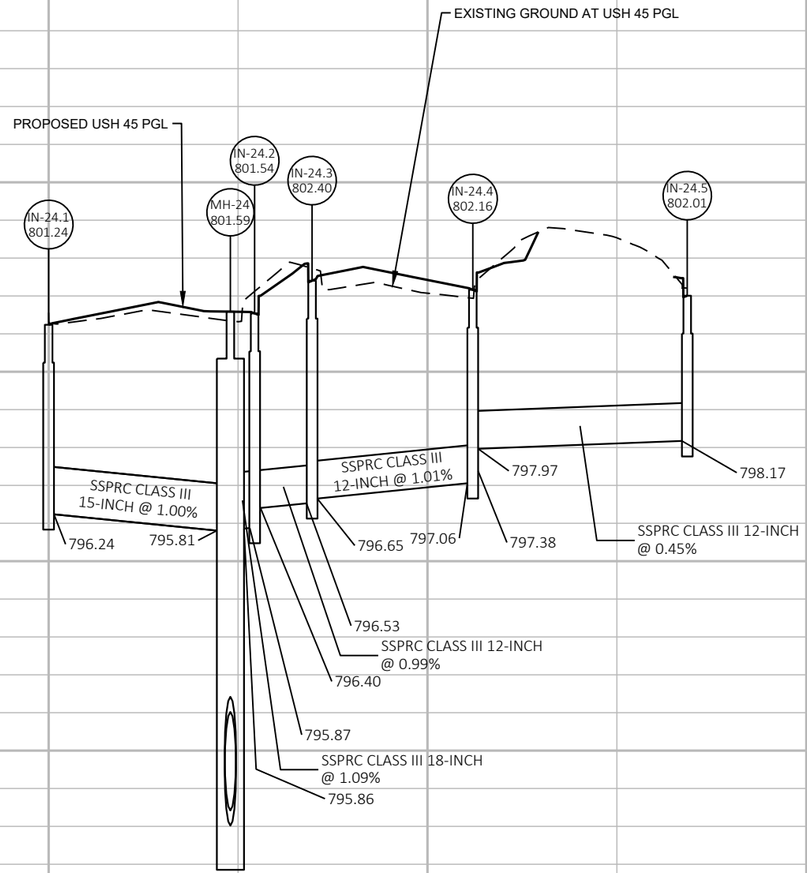
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 131	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 4bl

PLOT DATE : 4/28/2023 10:20 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 132	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 4br
PLOT DATE : 4/28/2023 10:20 PM
PLOT BY : THOMAS LEGEAR
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

MATCH LINE STA 936+50

CONNECT TO EXISTING 6" PVC PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

22.1 TO 22.2
43 FT SSPRC CLASS III 12-INCH

22.1 STA 936+92, 56.0' L
INLETS 2x3-H

STA 940+04, 76.2' L
INLETS 2x3-H 20.2

20.2 TO 20.3
40 FT SSPRC CLASS III 12-INCH

STA 939+69, 56.0' L
INLETS 2x3-H 20.3

20.3 TO 20.4
43 FT SSPRC CLASS III 12-INCH

TLE

EXIST R/W

22.2 STA 937+00, 14.0' L
INLETS 2x3-H

22.2 TO 22
6 FT SSPRC CLASS III 15-INCH

STA 939+66, 12.8' L
INLETS 2x3-H 20.4

20.4 TO 20
6 FT SSPRC CLASS III 15-INCH

22 STA 937+00, 8.0' L
MANHOLES 6-J

STA 939+70, 7.9' L
MANHOLES 6-J 20

937 938 939 940 941 942

PIPE UNDERDRAIN 6-INCH (TYP)

R/L USH 45

20 TO 22
270 FT SSPRC CLASS III 36-INCH

22.3 TO 22
22 FT SSPRC CLASS III 15-INCH

22.3 STA 937+00, 14.0' R
INLETS 2x3-H

20.5 TO 20
8 FT SSPRC CLASS III 15-INCH

STA 939+70, 0.1' L
INLETS 2x3-H 20.5

EXIST R/W

22.4 TO 22.3
42 FT SSPRC CLASS III 12-INCH

TLE

22.4 STA 937+00, 56.0' R
INLETS 2x3-H

20.6 TO 20.5
56 FT SSPRC CLASS III 12-INCH

STA 939+70, 56.0' R
INLETS 2x3-H 20.6

PROPOSED R/W

S CORTEZ CIRCLE

20.1 TO 20.2
44 FT SSPRC CLASS III 12-INCH

20.1 STA 940+45, 92.0' L
INLETS 4-H

STA 942+50, 56.0' L
INLETS 2x3-H 18.1

18.1 TO 18.2
42 FT SSPRC CLASS III 12-INCH

STA 942+50, 14.0' L
INLETS 2x3-H 18.2

TLE

EXIST R/W

18.2 TO 18
6 FT SSPRC CLASS III 15-INCH

18 TO 20
280 FT SSPRC CLASS III 30-INCH

STA 942+50, 7.9' L
MANHOLES 6-J 18

450

18.3 TO 18
19 FT SSPRC CLASS III 15-INCH

USH 45

STA 942+50, 11.6' R
INLETS 2x3-H 18.3

18.4 TO 18.3
44 FT SSPRC CLASS III 12-INCH

EXIST R/W

TLE

STA 942+50, 56.0' R
INLETS 2x3-H 18.4

R/L CORTEZ CIRCLE (SOUTH)

MATCH LINE STA 942+55

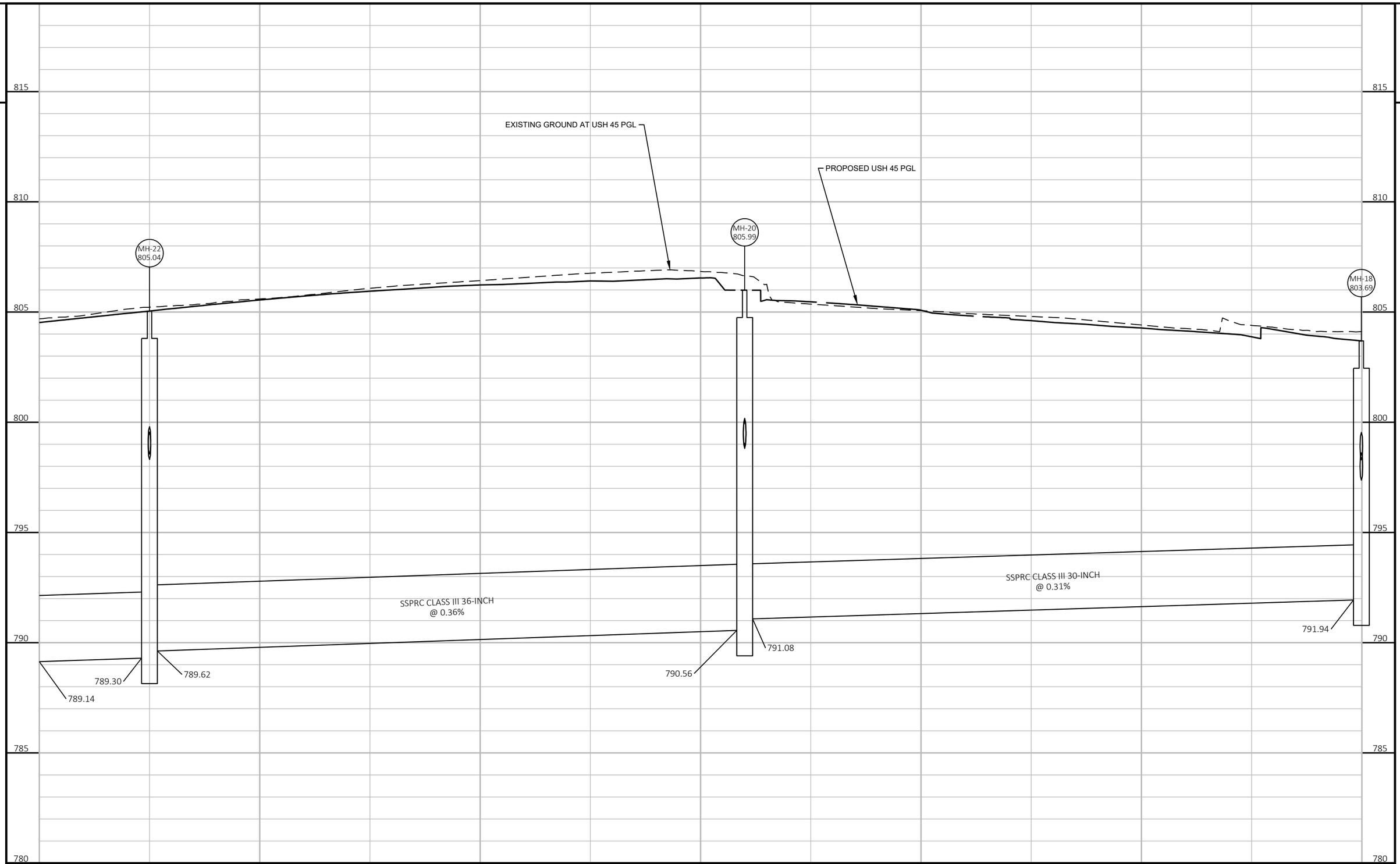
2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 133	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 5al

PLOT DATE : 4/28/2023 10:20 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 134	E

2

MATCH LINE STA 936+50

CONNECT TO EXISTING 6" PVC PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

22.1 TO 22.2
43 FT SSPRC CLASS III 12-INCH

22.1 STA 936+92, 56.0' L
INLETS 2x3-H

20.2 TO 20.3
40 FT SSPRC CLASS III 12-INCH

STA 940+04, 76.2' L 20.2
INLETS 2x3-H

20.1 TO 20.2
44 FT SSPRC CLASS III 12-INCH

20.1 STA 940+45, 92.0' L
INLETS 4-H

STA 942+50, 56.0' L 18.1
INLETS 2x3-H

18.1 TO 18.2
42 FT SSPRC CLASS III 12-INCH

STA 939+69, 56.0' L 20.3
INLETS 2x3-H

20.3 TO 20.4
43 FT SSPRC CLASS III 12-INCH

STA 942+50, 14.0' L 18.2
INLETS 2x3-H

TLE

EXIST R/W

22.2 STA 937+00, 14.0' L
INLETS 2x3-H

22.2 TO 22
6 FT SSPRC CLASS III 15-INCH

STA 939+66, 12.8' L 20.4
INLETS 2x3-H

20.4 TO 20
6 FT SSPRC CLASS III 15-INCH

18.2 TO 18
6 FT SSPRC CLASS III 15-INCH

22 STA 937+00, 8.0' L
MANHOLES 6-J

STA 939+70, 7.9' L 20
MANHOLES 6-J

18 TO 20
280 FT SSPRC CLASS III 30-INCH

STA 942+50, 7.9' L 18
MANHOLES 6-J

937 938 939 940 941 942

R/L USH 45

PIPE UNDERDRAIN 6-INCH (TYP)

20 TO 22
270 FT SSPRC CLASS III 36-INCH

22.3 TO 22
22 FT SSPRC CLASS III 15-INCH

20.5 TO 20
8 FT SSPRC CLASS III 15-INCH

18.3 TO 18
19 FT SSPRC CLASS III 15-INCH

USH 45

22.3 STA 937+00, 14.0' R
INLETS 2x3-H

STA 939+70, 0.1' L 20.5
INLETS 2x3-H

STA 942+50, 11.6' R 18.3
INLETS 2x3-H

EXIST R/W

22.4 TO 22.3
42 FT SSPRC CLASS III 12-INCH

TLE

EXIST R/W

18.4 TO 18.3
44 FT SSPRC CLASS III 12-INCH

TLE

22.4 STA 937+00, 56.0' R
INLETS 2x3-H

20.6 TO 20.5
56 FT SSPRC CLASS III 12-INCH

STA 939+70, 56.0' R 20.6
INLETS 2x3-H

PROPOSED R/W

STA 942+50, 56.0' R 18.4
INLETS 2x3-H

S CORTEZ CIRCLE

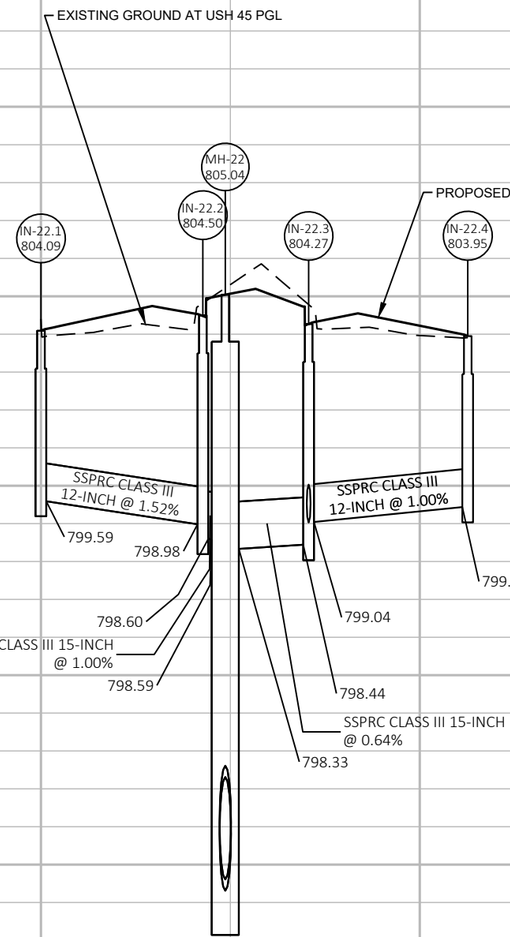
R/L CORTEZ CIRCLE (SOUTH)

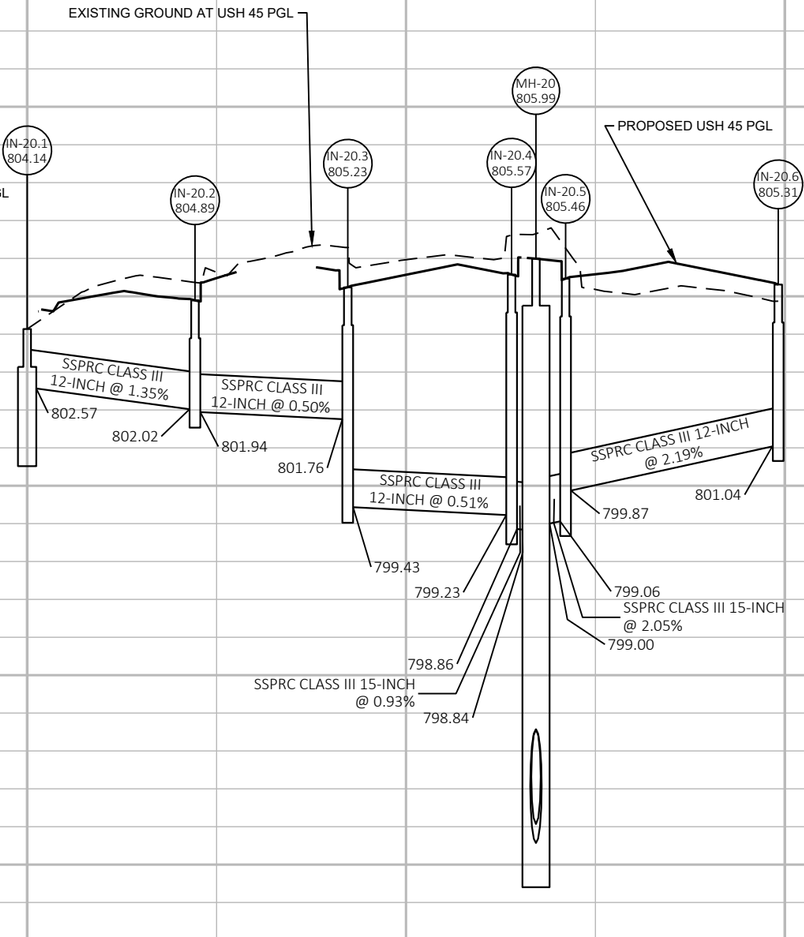
MATCH LINE STA 942+55

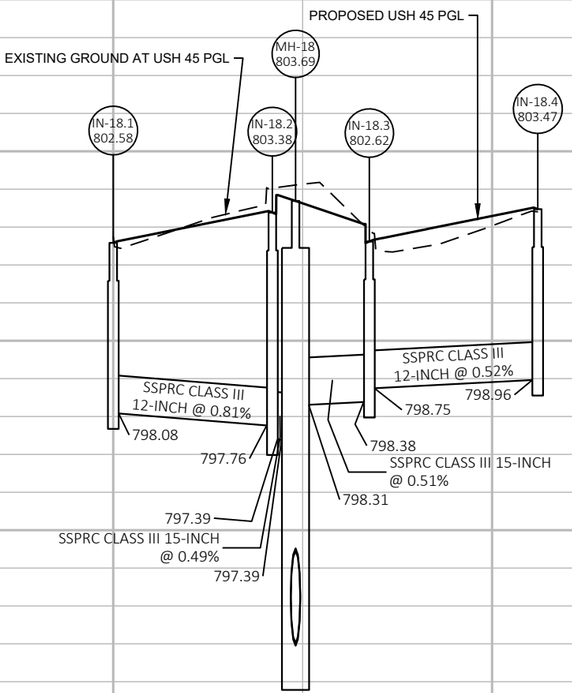
2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 135	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 5bl
PLOT DATE : 4/28/2023 10:21 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42







815 810 805 800 795 790 785 780

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 136	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 5br
PLOT DATE : 4/28/2023 10:22 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MATCH LINE STA 942+55

MATCH LINE STA 948+25

N CORTEZ CIRCLE

16.1 TO 16.2
37 FT SSPRC CLASS III 12-INCH

STA 946+10, 76.2' L
INLETS 2x3-H
16.1

STA 946+35, 56.0' L
INLETS 2x3-H
12.1

12.1 TO 12.2
15 FT SSPRC CLASS III 18-INCH

12.2
STA 946+50, 55.9' L
INLETS 2x3-H

12.3 TO 12.2
15 FT SSPRC CLASS III 18-INCH

12.3
STA 946+65, 56.0' L
INLETS 2x3-H

12.2 TO 12
48 FT SSPRC CLASS III 24-INCH

STA 945+22, 56.0' L
INLETS 2x3-H
16.3

STA 945+72, 75.3' L
INLETS 2x3-H
16.2

16.2 TO 16.3
52 FT SSPRC CLASS III 12-INCH

16.3 TO 16.4
42 FT SSPRC CLASS III 24-INCH

TLE

EXIST R/W

14 TO 16
68 FT SSPRC CLASS III 30-INCH

STA 945+20, 14.0' L
INLETS 2x3-H
16.4

12
STA 946+50, 7.8' L
MANHOLES 5-J

16.4 TO 16
8 FT SSPRC CLASS III 24-INCH

12.4 TO 12
7 FT SSPRC CLASS III 15-INCH

16 TO 18
274 FT SSPRC CLASS III 30-INCH

STA 945+25, 8.6' L
MANHOLES 6-C
16

16.5 TO 16
16 FT SSPRC CLASS III 15-INCH

STA 945+94, 8.0' L
MANHOLES 5-C
14

943 944 945 946 947 948

SS

12.5
STA 946+65, 2.0' L
INLETS 2x3-H

12.5 TO 12.4
15 FT SSPRC CLASS III 12-INCH

R/L USH 45

USH 45

STA 945+25, 7.9' R
INLETS 2x3-H
16.5

STA 945+10, 14.2' R
INLETS 2x3-H
16.6

16.6 TO 16.7
15 FT SSPRC CLASS III 12-INCH

12.4
STA 946+50, 1.2' L
INLETS 2x3-H

12.6 TO 12.4
14 FT SSPRC CLASS III 12-INCH

EXIST R/W

PIPE UNDERDRAIN 6-INCH (TYP)

16.8
STA 945+40, 14.1' R
INLETS 2x3-H

12.6
STA 946+50, 13.0' R
INLETS 2x3-H

16.8 TO 16.7
15 FT SSPRC CLASS III 12-INCH

12.7 TO 12.6
43 FT SSPRC CLASS III 12-INCH

STA 945+10, 56.0' R
INLETS 2x3-H
16.9

16.10 TO 16.7
42 FT SSPRC CLASS III 12-INCH

16.7 TO 16.5
6 FT SSPRC CLASS III 18-INCH

16.7
STA 945+25, 14.2' R
INLETS 2x3-H

12.7
STA 946+50, 56.0' R
INLETS 2x3-H

16.9 TO 16.10
15 FT SSPRC CLASS III 12-INCH

R/L CORTEZ CIRCLE (NORTH)

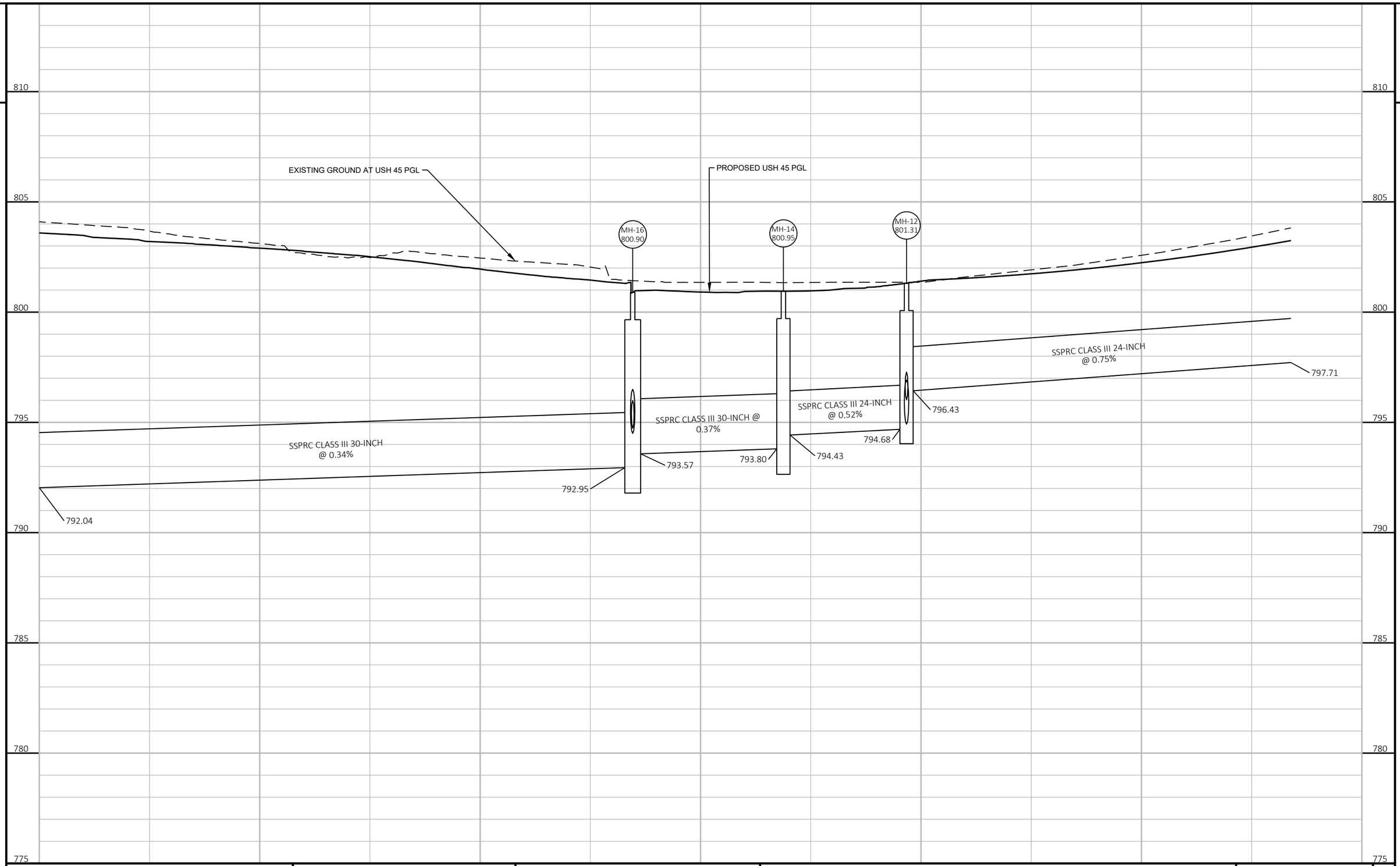
16.11
STA 945+40, 56.4' R
INLETS 2x3-H

12 TO 14
56 FT SSPRC CLASS III 24-INCH

16.11 TO 16.10
15 FT SSPRC CLASS III 12-INCH

STA 945+25, 56.0' R
INLETS 2x3-H
16.10

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 137	E



2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 138	E

2

N

MATCH LINE STA 942+55

MATCH LINE STA 948+25

N CORTEZ CIRCLE

16.1 TO 16.2
37 FT SSPRC CLASS III 12-INCH

STA 946+10, 76.2' L
INLETS 2x3-H
16.1

STA 946+35, 56.0' L
INLETS 2x3-H
12.1

12.1 TO 12.2
15 FT SSPRC CLASS III 18-INCH

12.2
STA 946+50, 55.9' L
INLETS 2x3-H

12.3 TO 12.2
15 FT SSPRC CLASS III 18-INCH

12.3
STA 946+65, 56.0' L
INLETS 2x3-H

12.2 TO 12
48 FT SSPRC CLASS III 24-INCH

STA 945+22, 56.0' L
INLETS 2x3-H
16.3

STA 945+72, 75.3' L
INLETS 2x3-H
16.2

16.2 TO 16.3
52 FT SSPRC CLASS III 12-INCH

16.3 TO 16.4
42 FT SSPRC CLASS III 24-INCH

TLE

EXIST R/W

14 TO 16
68 FT SSPRC CLASS III 30-INCH

STA 945+20, 14.0' L
INLETS 2x3-H
16.4

12
STA 946+50, 7.8' L
MANHOLES 5-J

16.4 TO 16
8 FT SSPRC CLASS III 24-INCH

12.4 TO 12
7 FT SSPRC CLASS III 15-INCH

STA 945+25, 8.6' L
MANHOLES 6-C
16

16 TO 18
274 FT SSPRC CLASS III 30-INCH

16.5 TO 16
16 FT SSPRC CLASS III 15-INCH

STA 945+94, 8.0' L
MANHOLES 5-C
14

943 944 945 946 947 948

12.5
STA 946+65, 2.0' L
INLETS 2x3-H

12.5 TO 12.4
15 FT SSPRC CLASS III 12-INCH

R/L USH 45

USH 45

STA 945+25, 7.9' R
INLETS 2x3-H
16.5

STA 945+10, 14.2' R
INLETS 2x3-H
16.6

16.6 TO 16.7
15 FT SSPRC CLASS III 12-INCH

12.4
STA 946+50, 1.2' L
INLETS 2x3-H

12.6 TO 12.4
14 FT SSPRC CLASS III 12-INCH

EXIST R/W

PIPE UNDERDRAIN 6-INCH (TYP)

12.6
STA 946+50, 13.0' R
INLETS 2x3-H

16.8
STA 945+40, 14.1' R
INLETS 2x3-H

16.8 TO 16.7
15 FT SSPRC CLASS III 12-INCH

12.7 TO 12.6
43 FT SSPRC CLASS III 12-INCH

STA 945+10, 56.0' R
INLETS 2x3-H
16.9

16.10 TO 16.7
42 FT SSPRC CLASS III 12-INCH

16.7 TO 16.5
6 FT SSPRC CLASS III 18-INCH

16.9 TO 16.10
15 FT SSPRC CLASS III 12-INCH

R/L CORTEZ CIRCLE (NORTH)

16.7
STA 945+25, 14.2' R
INLETS 2x3-H

12.7
STA 946+50, 56.0' R
INLETS 2x3-H

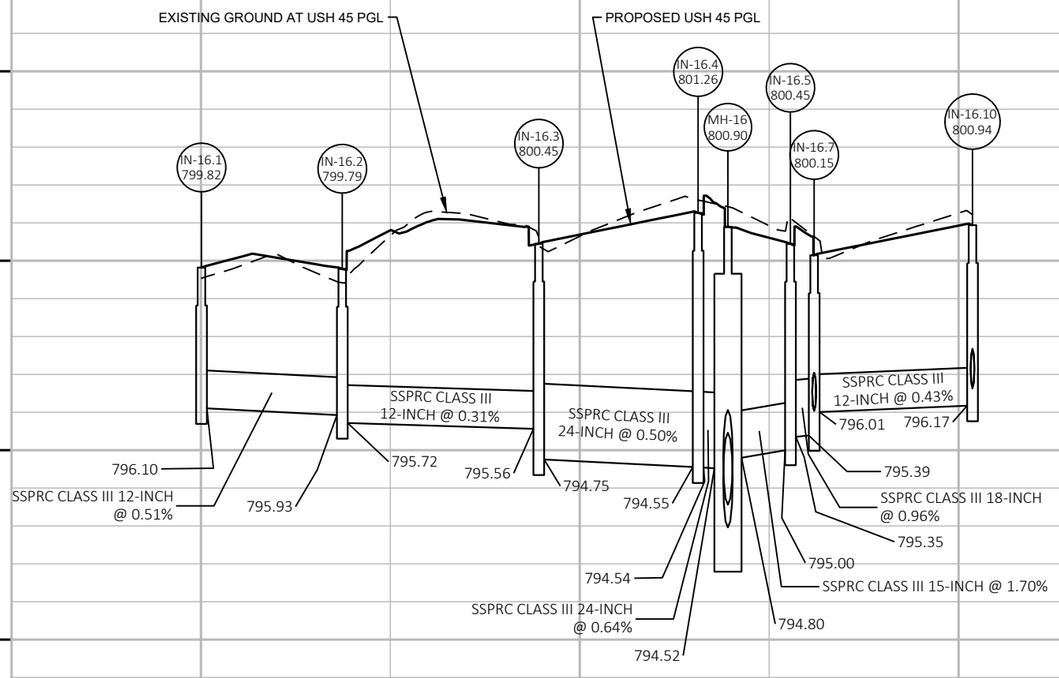
16.11
STA 945+40, 56.4' R
INLETS 2x3-H

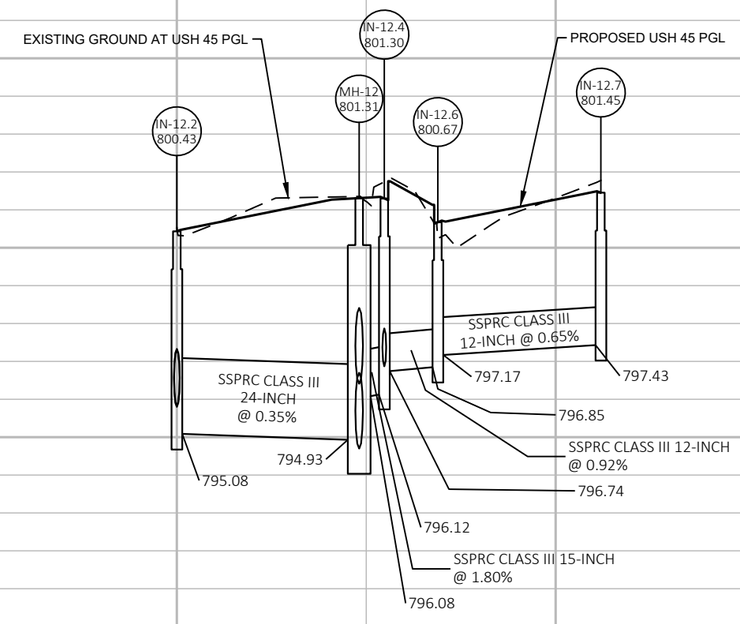
12 TO 14
56 FT SSPRC CLASS III 24-INCH

16.11 TO 16.10
15 FT SSPRC CLASS III 12-INCH

STA 945+25, 56.0' R
INLETS 2x3-H
16.10

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 139	E


EXISTING GROUND AT USH 45 PGL
PROPOSED USH 45 PGL
IN-16.1
799.82
IN-16.2
799.79
IN-16.3
800.45
IN-16.4
801.26
MH-16
800.90
IN-16.5
800.45
IN-16.7
800.15
IN-16.10
800.94
SSPRC CLASS III
12-INCH @ 0.31%
SSPRC CLASS III
24-INCH @ 0.50%
SSPRC CLASS III
12-INCH @ 0.43%
796.10
795.72
795.56
794.75
796.01
796.17
SSPRC CLASS III 12-INCH
@ 0.51%
795.93
795.39
SSPRC CLASS III 18-INCH
@ 0.96%
794.55
795.35
795.00
794.54
SSPRC CLASS III 15-INCH @ 1.70%
SSPRC CLASS III 24-INCH
@ 0.64%
794.80
794.52
815
810
805
800
795
790
785
780


EXISTING GROUND AT USH 45 PGL
PROPOSED USH 45 PGL
IN-12.2
800.43
IN-12.4
801.30
MH-12
801.31
IN-12.6
800.67
IN-12.7
801.45
SSPRC CLASS III
12-INCH @ 0.65%
SSPRC CLASS III
24-INCH
@ 0.35%
797.17
797.43
796.85
SSPRC CLASS III 12-INCH
@ 0.92%
794.93
795.08
796.74
796.12
SSPRC CLASS III 15-INCH
@ 1.80%
796.08
815
810
805
800
795
790
785
780

2

N

MATCH LINE STA 942+55

MATCH LINE STA 948+25

N CORTEZ CIRCLE

16.1 TO 16.2
37 FT SSPRC CLASS III 12-INCH

STA 946+10, 76.2' L
INLETS 2x3-H
16.1

STA 946+35, 56.0' L
INLETS 2x3-H
12.1

12.1 TO 12.2
15 FT SSPRC CLASS III 18-INCH

12.2
STA 946+50, 55.9' L
INLETS 2x3-H

12.3 TO 12.2
15 FT SSPRC CLASS III 18-INCH

12.3
STA 946+65, 56.0' L
INLETS 2x3-H

12.2 TO 12
48 FT SSPRC CLASS III 24-INCH

STA 945+22, 56.0' L
INLETS 2x3-H
16.3

STA 945+72, 75.3' L
INLETS 2x3-H
16.2

16.3 TO 16.4
42 FT SSPRC CLASS III 24-INCH

16.2 TO 16.3
52 FT SSPRC CLASS III 12-INCH

TLE

EXIST R/W

14 TO 16
68 FT SSPRC CLASS III 30-INCH

STA 945+20, 14.0' L
INLETS 2x3-H
16.4

12
STA 946+50, 7.8' L
MANHOLES 5-J

16.4 TO 16
8 FT SSPRC CLASS III 24-INCH

12.4 TO 12
7 FT SSPRC CLASS III 15-INCH

STA 945+25, 8.6' L
MANHOLES 6-C
16

16 TO 18
274 FT SSPRC CLASS III 30-INCH

16.5 TO 16
16 FT SSPRC CLASS III 15-INCH

STA 945+94, 8.0' L
MANHOLES 5-C
14

943 944 945 946 947 948

12.5
STA 946+65, 2.0' L
INLETS 2x3-H

12.5 TO 12.4
15 FT SSPRC CLASS III 12-INCH

R/L USH 45

USH 45

STA 945+25, 7.9' R
INLETS 2x3-H
16.5

STA 945+10, 14.2' R
INLETS 2x3-H
16.6

16.6 TO 16.7
15 FT SSPRC CLASS III 12-INCH

12.4
STA 946+50, 1.2' L
INLETS 2x3-H

12.6 TO 12.4
14 FT SSPRC CLASS III 12-INCH

EXIST R/W

PIPE UNDERDRAIN 6-INCH (TYP)

12.6
STA 946+50, 13.0' R
INLETS 2x3-H

16.8
STA 945+40, 14.1' R
INLETS 2x3-H

16.8 TO 16.7
15 FT SSPRC CLASS III 12-INCH

12.7 TO 12.6
43 FT SSPRC CLASS III 12-INCH

STA 945+10, 56.0' R
INLETS 2x3-H
16.9

16.10 TO 16.7
42 FT SSPRC CLASS III 12-INCH

16.7 TO 16.5
6 FT SSPRC CLASS III 18-INCH

TLE

16.7
STA 945+25, 14.2' R
INLETS 2x3-H

12.7
STA 946+50, 56.0' R
INLETS 2x3-H

16.9 TO 16.10
15 FT SSPRC CLASS III 12-INCH

R/L CORTEZ CIRCLE (NORTH)

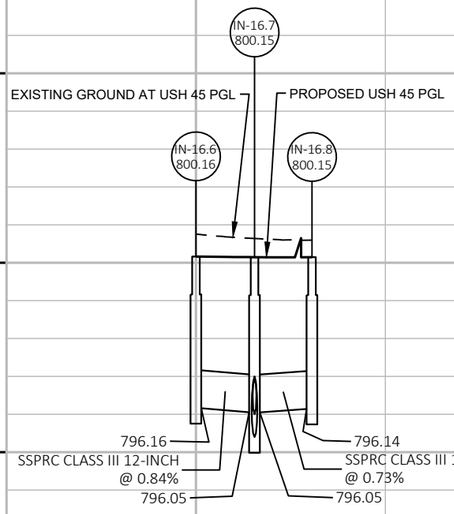
16.11
STA 945+40, 56.4' R
INLETS 2x3-H

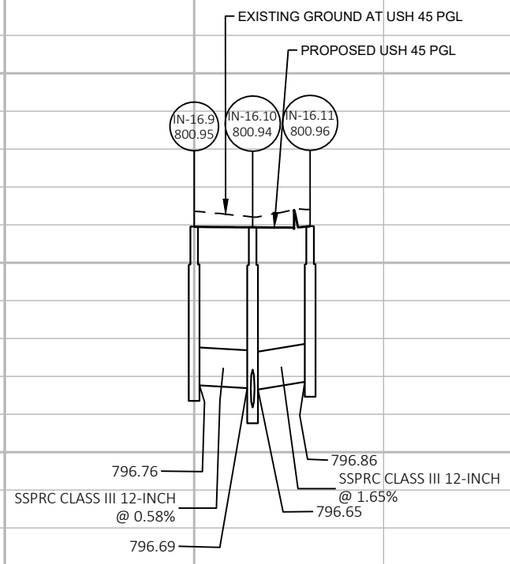
12 TO 14
56 FT SSPRC CLASS III 24-INCH

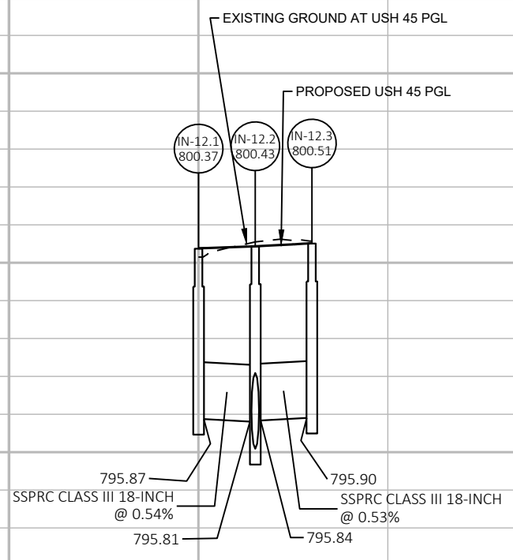
16.11 TO 16.10
15 FT SSPRC CLASS III 12-INCH

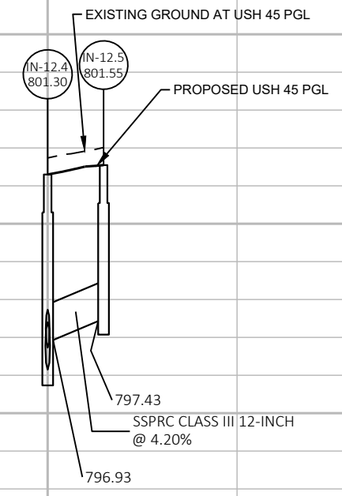
STA 945+25, 56.0' R
INLETS 2x3-H
16.10

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 141	E









815 810 805 800 795 790 785 780

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 142	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 6cr

PLOT DATE : 4/28/2023 10:25 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MATCH LINE STA 948+25

MATCH LINE STA 953+75

STA 949+20, 56.0' L
INLETS 2x3-H
10.1

TLE

10.1 TO 10.2
42 FT SSPRC CLASS III 12-INCH

EXIST R/W

PROPOSED R/W

STA 949+20, 6.0' L
INLETS 4-H
10

10.2
STA 949+20, 14.0' L
INLETS 2x3-H

10 TO 12
269 FT SSPRC CLASS III 24-INCH

10.2 TO 10
8 FT SSPRC CLASS III 12-INCH

R/L USH 45

949
950
951
952
953

10.3 TO 10
14 FT SSPRC CLASS III 12-INCH

STA 949+20, 7.9' R
INLETS 2x3-H
10.3

10.4 TO 10.3
7 FT SSPRC CLASS III 12-INCH

PIPE UNDERDRAIN 6-INCH (TYP)

USH 45

10.4
STA 949+20, 15.0' R
INLETS 2x3-H

STA 949+20, 56.0' R
INLETS 2x3-H
10.5

10.5 TO 10.4
41 FT SSPRC CLASS III 12-INCH

EXIST R/W

TLE

PROPOSED R/W

50.1
STA 953+20, 68.0' L
INLETS 2x3-H

TLE

EXIST R/W

50.2
STA 953+20, 14.5' L
INLETS 2x3-H

50.1 TO 50.2
54 FT SSPRC CLASS III 12-INCH

50.2 TO 50
6 FT SSPRC CLASS III 15-INCH

50
STA 953+20, 8.0' L
INLETS 4-H

50.3 TO 50
14 FT SSPRC CLASS III 15-INCH

50.3
STA 953+20, 6.0' R
INLETS 2x3-H

50.4 TO 50.3
8 FT SSPRC CLASS III 12-INCH

50.4
STA 953+20, 14.0' R
INLETS 2x3-H

50.5 TO 50.4
42 FT SSPRC CLASS III 12-INCH

EXIST R/W

TLE

PROPOSED R/W

50.5
STA 953+20, 56.0' R
INLETS 2x3-H

R/L SPEEDWAY DRIVE

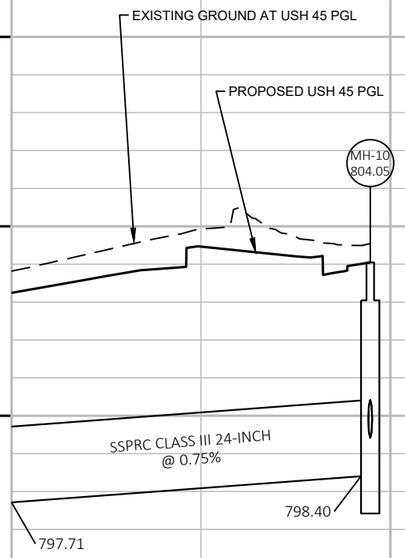
SPEEDWAY DRIVE

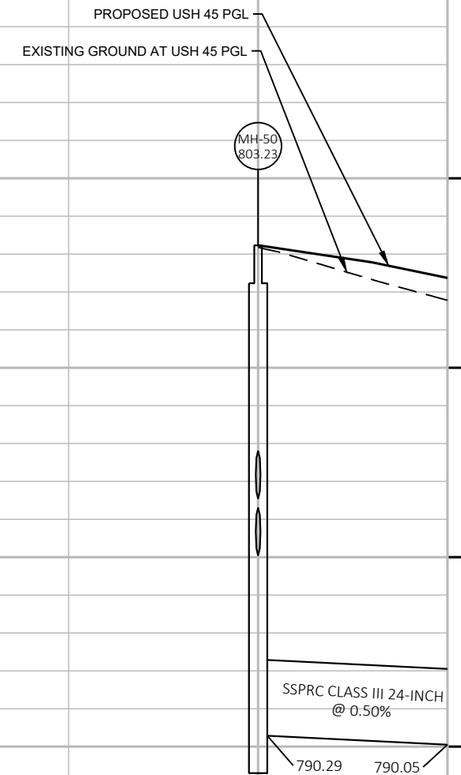
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 143	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 7al

PLOT DATE : 4/28/2023 10:25 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





815 810 805 800 795 790 785 780

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 144	E

2

N

MATCH LINE STA 948+25

MATCH LINE STA 953+75

STA 949+20, 56.0' L
INLETS 2x3-H
10.1

10.1 TO 10.2
42 FT SSPRC CLASS III 12-INCH

TLE

EXIST R/W

PROPOSED R/W

STA 949+20, 6.0' L
INLETS 4-H
10

10.2
STA 949+20, 14.0' L
INLETS 2x3-H

10 TO 12
269 FT SSPRC CLASS III 24-INCH

10.2 TO 10
8 FT SSPRC CLASS III 12-INCH

R/L USH 45

949

950

951

952

953

548

550

10.3 TO 10
14 FT SSPRC CLASS III 12-INCH

STA 949+20, 7.9' R
INLETS 2x3-H
10.3

10.4 TO 10.3
7 FT SSPRC CLASS III 12-INCH

PIPE UNDERDRAIN 6-INCH (TYP)

USH 45

10.4
STA 949+20, 15.0' R
INLETS 2x3-H

STA 949+20, 56.0' R
INLETS 2x3-H
10.5

10.5 TO 10.4
41 FT SSPRC CLASS III 12-INCH

EXIST R/W

TLE

PROPOSED R/W

50.1
STA 953+20, 68.0' L
INLETS 2x3-H

TLE

EXIST R/W

50.2
STA 953+20, 14.5' L
INLETS 2x3-H

50.1 TO 50.2
54 FT SSPRC CLASS III 12-INCH

50.2 TO 50
6 FT SSPRC CLASS III 15-INCH

50
STA 953+20, 8.0' L
INLETS 4-H

50.3 TO 50
14 FT SSPRC CLASS III 15-INCH

50.3
STA 953+20, 6.0' R
INLETS 2x3-H

50.4 TO 50.3
8 FT SSPRC CLASS III 12-INCH

50.4
STA 953+20, 14.0' R
INLETS 2x3-H

50.5 TO 50.4
42 FT SSPRC CLASS III 12-INCH

EXIST R/W

TLE

PROPOSED R/W

50.5
STA 953+20, 56.0' R
INLETS 2x3-H

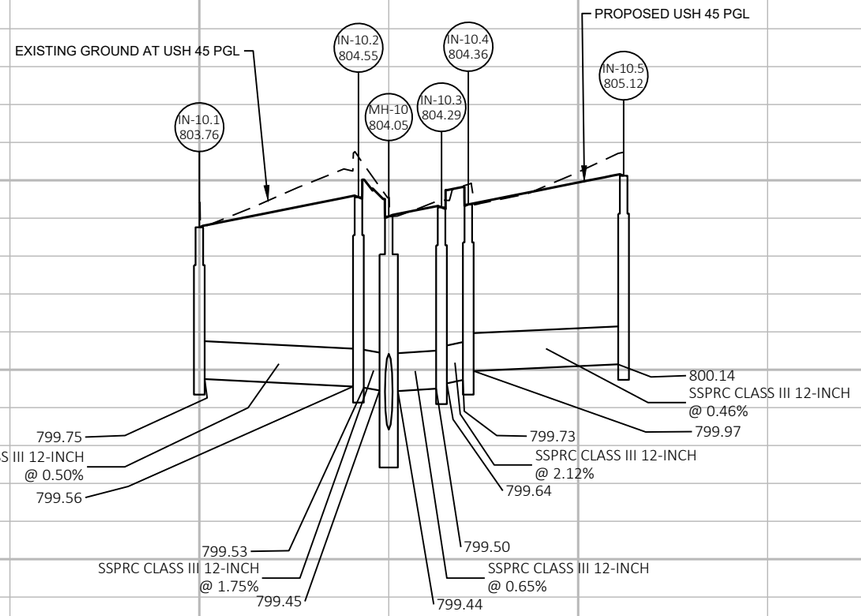
R/L SPEEDWAY DRIVE

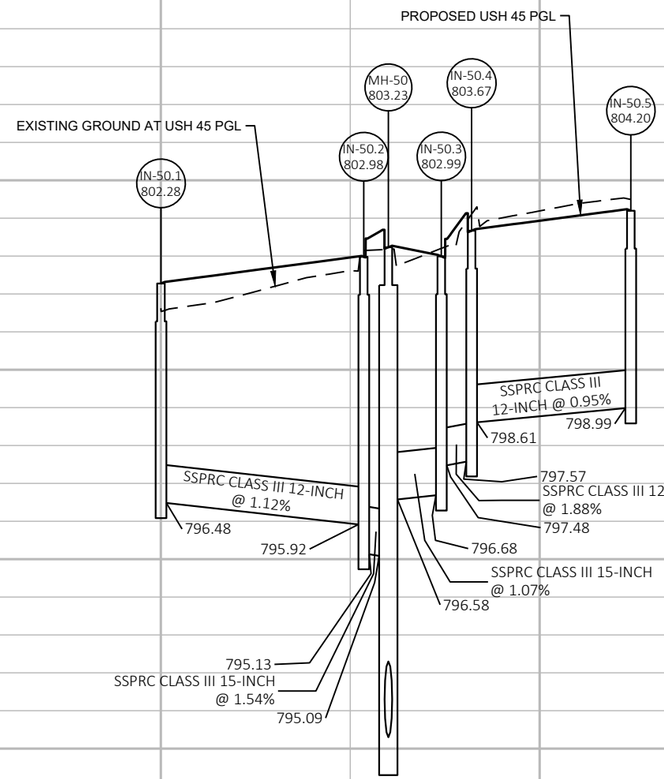
SPEEDWAY DRIVE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 145	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 7bl

PLOT DATE : 4/28/2023 10:26 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT


815
810
805
800
795
790
785
780
EXISTING GROUND AT USH 45 PGL
PROPOSED USH 45 PGL
IN-10.1
803.76
IN-10.2
804.55
MH-10
804.05
IN-10.3
804.29
IN-10.4
804.36
IN-10.5
805.12
799.75
SSPRC CLASS III 12-INCH
@ 0.50%
799.56
799.53
SSPRC CLASS III 12-INCH
@ 1.75%
799.45
799.44
799.50
SSPRC CLASS III 12-INCH
@ 0.65%
799.64
799.73
SSPRC CLASS III 12-INCH
@ 2.12%
799.97
800.14
SSPRC CLASS III 12-INCH
@ 0.46%


815
810
805
800
795
790
785
780
EXISTING GROUND AT USH 45 PGL
PROPOSED USH 45 PGL
IN-50.1
802.28
IN-50.2
802.98
MH-50
803.23
IN-50.3
802.99
IN-50.4
803.67
IN-50.5
804.20
795.13
SSPRC CLASS III 15-INCH
@ 1.54%
795.09
SSPRC CLASS III 12-INCH
@ 1.12%
796.48
795.92
796.58
SSPRC CLASS III 15-INCH
@ 1.07%
796.68
797.48
SSPRC CLASS III 12-INCH
@ 1.88%
797.57
798.61
SSPRC CLASS III
12-INCH @ 0.95%
798.99

2

2

N

MATCH LINE STA 953+75

MATCH LINE STA 959+60

STA 956+00, 58.9' L
INLETS 2x3-H
52.1

52.1 TO 52.2
44 FT SSPRC CLASS III 12-INCH

PROPOSED R/W

TLE

EXIST R/W

52.2 TO 52
6 FT SSPRC CLASS III 15-INCH

STA 956+00, 8.0' L
MANHOLES 5-C
52

52.2
STA 956+00, 14.4' L
INLETS 2x3-H

50 TO 52
280 FT SSPRC CLASS III 24-INCH

PIPE UNDERDRAIN 6-INCH (TYP)

52 TO 54
201 FT SSPRC CLASS III 30-INCH

54 TO 56
146 FT SSPRC CLASS III 30-INCH

56.2 TO 56
6 FT SSPRC CLASS III 15-INCH

STA 959+46, 56.0' L
INLETS 2x3-H
56.1

56.1 TO 56.2
42 FT SSPRC CLASS III 12-INCH

STA 959+46, 14.0' L
INLETS 2x3-H
56.2

STA 959+46, 8.0' L
MANHOLES 6-J
56

954 955 956 957 958 959

R/L USH 45

52.4 TO 52.3
8 FT SSPRC CLASS III 18-INCH

52.3 TO 52
14 FT SSPRC CLASS III 18-INCH

STA 958+00, 8.0' L
MANHOLES 5-J
54

56.3 TO 56
19 FT SSPRC CLASS III 24-INCH

STA 956+00, 14.0' R
INLETS 2x3-H
52.4

52.3
STA 956+00, 6.0' R
INLETS 2x3-H

USH 45

STA 959+46, 10.9' R
INLETS 2x3-H
56.3

EXIST R/W

TLE

52.5 TO 52.4
42 FT SSPRC CLASS III 15-INCH

STA 955+21, 56.0' R
INLETS 2x3-H
52.6

52.5
STA 956+00, 56.0' R
INLETS 2x3-H

CONNECT TO EXISTING 12" PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

56.4 TO 56.3
45 FT SSPRC CLASS III 24-INCH

STA 959+46, 56.0' R
INLETS 4-H
56.4

CONNECT TO EXISTING 12" PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

52.6 TO 52.5
77 FT SSPRC CLASS III 15-INCH

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 147	E

2

805
800
795
790
785
780
775
770

MH-52
794.80

EXISTING GROUND AT USH 45 PGL

PROPOSED USH 45 PGL

MH-54
788.84

MH-56
785.64

SSPRC CLASS III 24-INCH
@ 0.50%

790.03

788.91

SSPRC CLASS III 30-INCH
@ 0.50%

781.89

780.92

778.88

SSPRC CLASS III 30-INCH
@ 0.61%

778.02

777.38

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 148	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 8ar

PLOT DATE : 4/28/2023 10:28 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MATCH LINE STA 953+75

MATCH LINE STA 959+60

STA 956+00, 58.9' L
INLETS 2x3-H
52.1

52.1 TO 52.2
44 FT SSPRC CLASS III 12-INCH

STA 959+46, 56.0' L
INLETS 2x3-H
56.1

56.1 TO 56.2
42 FT SSPRC CLASS III 12-INCH

STA 959+46, 14.0' L
INLETS 2x3-H
56.2

PROPOSED R/W

TLE

EXIST R/W

52.2 TO 52
6 FT SSPRC CLASS III 15-INCH

STA 956+00, 8.0' L
MANHOLES 5-C
52

52.2
STA 956+00, 14.4' L
INLETS 2x3-H

50 TO 52
280 FT SSPRC CLASS III 24-INCH

52 TO 54
201 FT SSPRC CLASS III 30-INCH

54 TO 56
146 FT SSPRC CLASS III 30-INCH

56.2 TO 56
6 FT SSPRC CLASS III 15-INCH

STA 959+46, 8.0' L
MANHOLES 6-J
56

954 955 956 957 958 959

R/L USH 45

52.4 TO 52.3
8 FT SSPRC CLASS III 18-INCH

52.3 TO 52
14 FT SSPRC CLASS III 18-INCH

STA 958+00, 8.0' L
MANHOLES 5-J
54

56.3 TO 56
19 FT SSPRC CLASS III 24-INCH

STA 956+00, 14.0' R
INLETS 2x3-H
52.4

52.3
STA 956+00, 6.0' R
INLETS 2x3-H

USH 45

PIPE UNDERDRAIN 6-INCH (TYP)

STA 959+46, 10.9' R
INLETS 2x3-H
56.3

EXIST R/W

TLE

52.5 TO 52.4
42 FT SSPRC CLASS III 15-INCH

STA 955+21, 56.0' R
INLETS 2x3-H
52.6

52.5
STA 956+00, 56.0' R
INLETS 2x3-H

56.4 TO 56.3
45 FT SSPRC CLASS III 24-INCH

STA 959+46, 56.0' R
INLETS 4-H
56.4

CONNECT TO EXISTING 12" PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

52.6 TO 52.5
77 FT SSPRC CLASS III 15-INCH

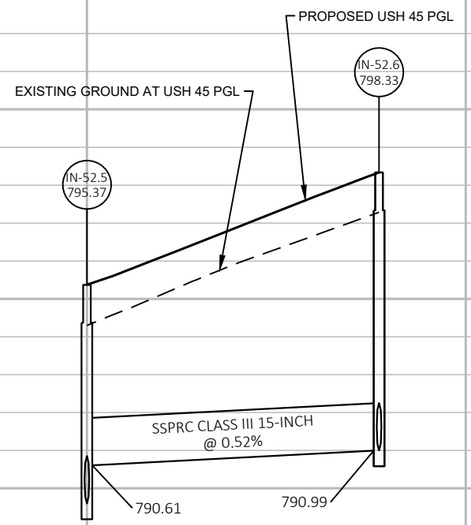
CONNECT TO EXISTING 12" PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

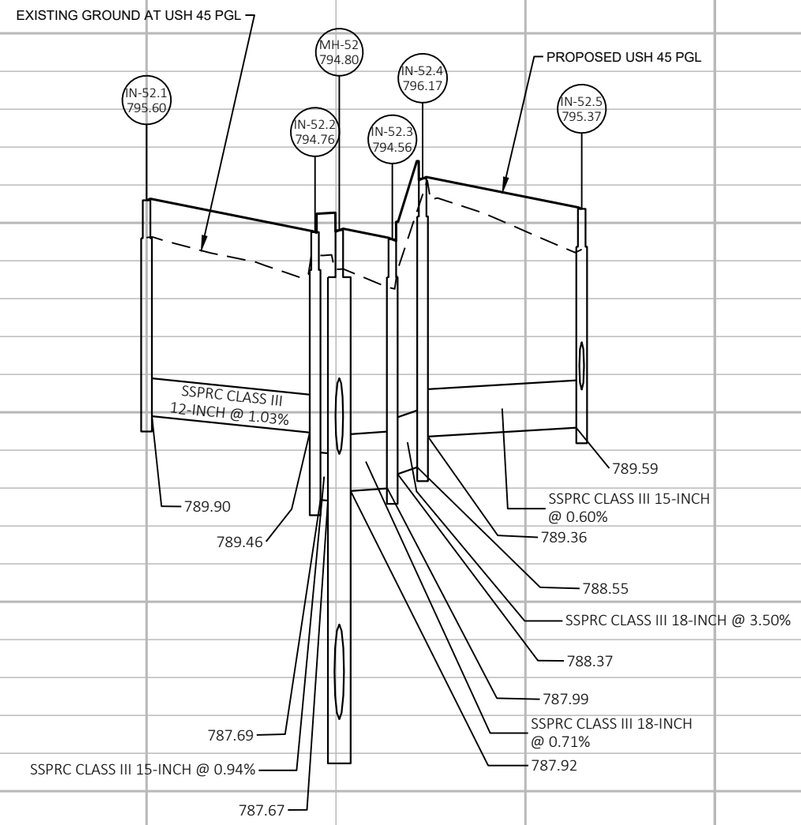
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 149	E

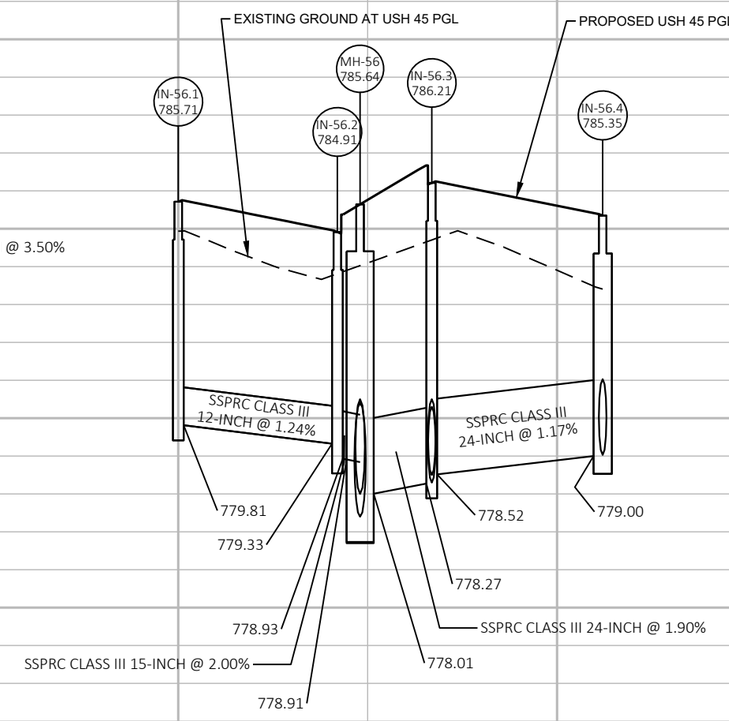
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 8bl

PLOT DATE : 4/28/2023 10:28 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42


PROPOSED USH 45 PGL
EXISTING GROUND AT USH 45 PGL
IN-52.6
798.33
IN-52.5
795.37
SSPRC CLASS III 15-INCH
@ 0.52%
790.61
790.99


EXISTING GROUND AT USH 45 PGL
MH-52
794.80
IN-52.1
795.60
IN-52.2
794.76
IN-52.3
794.56
IN-52.4
796.17
PROPOSED USH 45 PGL
IN-52.5
795.37
SSPRC CLASS III
12-INCH @ 1.03%
789.90
789.46
789.59
SSPRC CLASS III 15-INCH
@ 0.60%
789.36
788.55
SSPRC CLASS III 18-INCH @ 3.50%
788.37
787.99
SSPRC CLASS III 18-INCH
@ 0.71%
787.92
787.69
SSPRC CLASS III 15-INCH @ 0.94%
787.67


EXISTING GROUND AT USH 45 PGL
PROPOSED USH 45 PGL
MH-56
785.64
IN-56.1
785.71
IN-56.2
784.91
IN-56.3
786.21
IN-56.4
785.35
SSPRC CLASS III
12-INCH @ 1.24%
779.81
779.33
SSPRC CLASS III
24-INCH @ 1.17%
778.52
779.00
778.27
778.93
SSPRC CLASS III 24-INCH @ 1.90%
SSPRC CLASS III 15-INCH @ 2.00%
778.01
778.91

2

58.3 TO 58.2
21 FT SSPRC CLASS III 12-INCH

58.3 STA 961+25, 56.0' L
INLETS 2x3-H

STA 961+04, 56.0' L
INLETS 2x3-H 58.2

58.6 TO 58.5
15 FT SSPRC CLASS III 12-INCH

58.6 STA 961+19, 14.0' L
INLETS 2x3-H

58.2 TO 58.5
42 FT SSPRC CLASS III 12-INCH

58.1 TO 58.2
34 FT SSPRC CLASS III 12-INCH

58 TO 60
51 FT SSPRC CLASS III 36-INCH

CONNECT TO EXISTING 12" PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

60 STA 961+55, 13.0' L
MANHOLES 6-J

STA 960+71, 56.3' L
INLETS 2x3-H 58.1

60.2 TO 60
7 FT SSPRC CLASS III 18-INCH

60.2 STA 961+55, 6.0' L
INLETS 2x3-H

64.1 STA 963+50, 56.0' L
INLETS 2x3-H

TLE

64.1 TO 64.2
42 FT SSPRC CLASS III 12-INCH

EXIST R/W

STA 961+04, 14.0' L
INLETS 2x3-H 58.5

64.2 STA 963+55, 14.5' L
INLETS 2x3-H

60.4 TO 60.2
14 FT SSPRC CLASS III 18-INCH

60.3 TO 60.4
15 FT SSPRC CLASS III 12-INCH

64.2 TO 64
7 FT SSPRC CLASS III 12-INCH

64 STA 963+56, 8.0' L
MANHOLES 7-C

58.4 TO 58.5
15 FT SSPRC CLASS III 12-INCH

STA 960+89, 14.0' L
INLETS 2x3-H 58.4

60 TO 62
121 FT SSPRC CLASS III 42-INCH

R/L USH 45

58.5 TO 58
6 FT SSPRC CLASS III 18-INCH

963 964 965 962 961 960

64.3 TO 64
14 FT SSPRC CLASS III 18-INCH

60.3 STA 961+70, 8.0' R
INLETS 2x3-H

STA 961+04, 8.0' L
MANHOLES 6-J 58

60.5 STA 961+55, 14.5' R
INLETS 2x3-H

STA 962+73, 13.2' R
MANHOLES 6-J 62

64.3 STA 963+58, 6.0' R
INLETS 2x3-H

USH 45

64.4 STA 963+59, 14.0' R
INLETS 2x3-H

64.4 TO 64.3
8 FT SSPRC CLASS III 18-INCH

STA 961+40, 8.0' R
INLETS 2x3-H 60.1

60.7 TO 60.5
41 FT SSPRC CLASS III 18-INCH

60.1 TO 60.4
15 FT SSPRC CLASS III 12-INCH

EXIST R/W

TLE

64.5 TO 64.4
47 FT SSPRC CLASS III 18-INCH

PIPE UNDERDRAIN 6-INCH (TYP)

60.8 STA 961+70, 56.0' R
INLETS 2x3-H

STA 961+55, 56.0' R
INLETS 2x3-H 60.7

64.5 STA 963+38, 56.0' R
INLETS 2x3-H

STA 961+55, 7.5' R
INLETS 2x3-H 60.4

60.8 TO 60.7
15 FT SSPRC CLASS III 12-INCH

62.2 STA 962+94, 102.7' R
INLETS 2x3-H

60.5 TO 60.4
7 FT SSPRC CLASS III 18-INCH

STA 962+53, 97.2' R
INLETS 2x3-H 62.1

62.2 TO 62.3
29 FT SSPRC CLASS III 12-INCH

STA 961+39, 56.0' R
INLETS 2x3-H 60.6

62.1 TO 62.3
11 FT SSPRC CLASS III 12-INCH

WHITNALL EDGE ROAD

R/L WHITNALL EDGE ROAD

60.6 TO 60.7
15 FT SSPRC CLASS III 15-INCH

62.3 STA 962+64, 97.0' R
MANHOLES 6-J

602

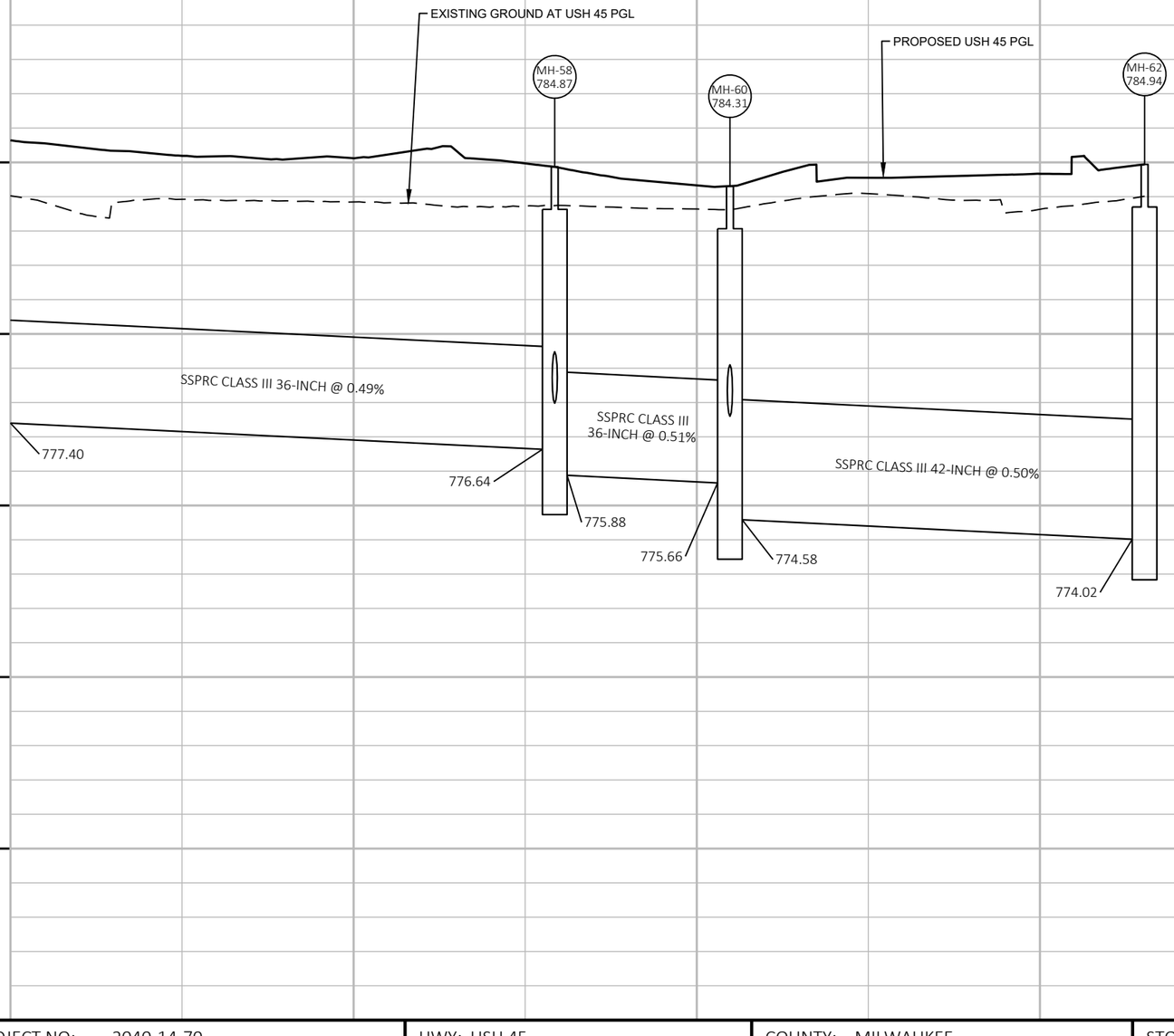
MATCH LINE STA 959+60

MATCH LINE STA 965+50

N

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 151	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 9al
PLOT DATE : 4/28/2023 10:29 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 152	E

2

58.3 TO 58.2
21 FT SSPRC CLASS III 12-INCH

58.3 STA 961+25, 56.0' L
INLETS 2x3-H

58.6 TO 58.5
15 FT SSPRC CLASS III 12-INCH

STA 961+04, 56.0' L
INLETS 2x3-H
58.2

58.6 STA 961+19, 14.0' L
INLETS 2x3-H

58.2 TO 58.5
42 FT SSPRC CLASS III 12-INCH

58.1 TO 58.2
34 FT SSPRC CLASS III 12-INCH

58 TO 60
51 FT SSPRC CLASS III 36-INCH

CONNECT TO EXISTING 12" PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

64.1 STA 963+50, 56.0' L
INLETS 2x3-H

60 STA 961+55, 13.0' L
MANHOLES 6-J

STA 960+71, 56.3' L
INLETS 2x3-H
58.1

60.2 TO 60
7 FT SSPRC CLASS III 18-INCH

60.2 STA 961+55, 6.0' L
INLETS 2x3-H

TLE

64.1 TO 64.2
42 FT SSPRC CLASS III 12-INCH

EXIST R/W

STA 961+04, 14.0' L
INLETS 2x3-H
58.5

60.4 TO 60.2
14 FT SSPRC CLASS III 18-INCH

60.3 TO 60.4
15 FT SSPRC CLASS III 12-INCH

64.2 STA 963+55, 14.5' L
INLETS 2x3-H

64.2 TO 64
7 FT SSPRC CLASS III 12-INCH

58.4 TO 58.5
15 FT SSPRC CLASS III 12-INCH

64 STA 963+56, 8.0' L
MANHOLES 7-C

STA 960+89, 14.0' L
INLETS 2x3-H
58.4

60 TO 62
121 FT SSPRC CLASS III 42-INCH

R/L USH 45

58.5 TO 58
6 FT SSPRC CLASS III 18-INCH

963

964

965

962

961

960

64.3 TO 64
14 FT SSPRC CLASS III 18-INCH

STA 961+04, 8.0' L
MANHOLES 6-J
58

60.3 STA 961+70, 8.0' R
INLETS 2x3-H

60.5 STA 961+55, 14.5' R
INLETS 2x3-H

STA 962+73, 13.2' R
MANHOLES 6-J
62

USH 45

64.3 STA 963+58, 6.0' R
INLETS 2x3-H

64.4 STA 963+59, 14.0' R
INLETS 2x3-H

64.4 TO 64.3
8 FT SSPRC CLASS III 18-INCH

STA 961+40, 8.0' R
INLETS 2x3-H
60.1

60.7 TO 60.5
41 FT SSPRC CLASS III 18-INCH

60.1 TO 60.4
15 FT SSPRC CLASS III 12-INCH

EXIST R/W

TLE

64.5 TO 64.4
47 FT SSPRC CLASS III 18-INCH

64.5 STA 963+38, 56.0' R
INLETS 2x3-H

PIPE UNDERDRAIN 6-INCH (TYP)

STA 961+55, 56.0' R
INLETS 2x3-H
60.7

60.8 STA 961+70, 56.0' R
INLETS 2x3-H

STA 961+55, 7.5' R
INLETS 2x3-H
60.4

60.8 TO 60.7
15 FT SSPRC CLASS III 12-INCH

62.2 STA 962+94, 102.7' R
INLETS 2x3-H

60.5 TO 60.4
7 FT SSPRC CLASS III 18-INCH

STA 962+53, 97.2' R
INLETS 2x3-H
62.1

62.2 TO 62.3
29 FT SSPRC CLASS III 12-INCH

STA 961+39, 56.0' R
INLETS 2x3-H
60.6

62.1 TO 62.3
11 FT SSPRC CLASS III 12-INCH

60.6 TO 60.7
15 FT SSPRC CLASS III 15-INCH

WHITNALL EDGE ROAD

R/L WHITNALL EDGE ROAD

62.3 STA 962+64, 97.0' R
MANHOLES 6-J

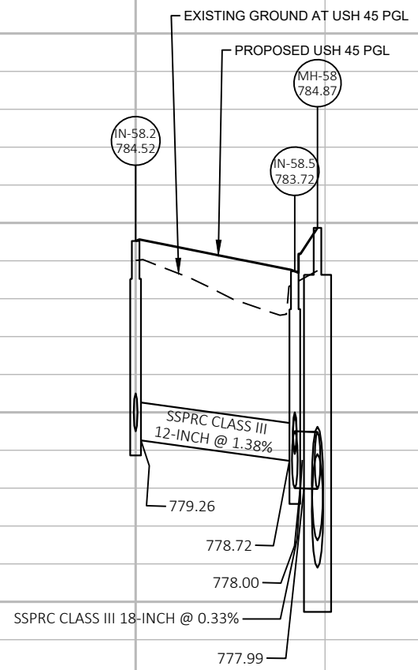
602

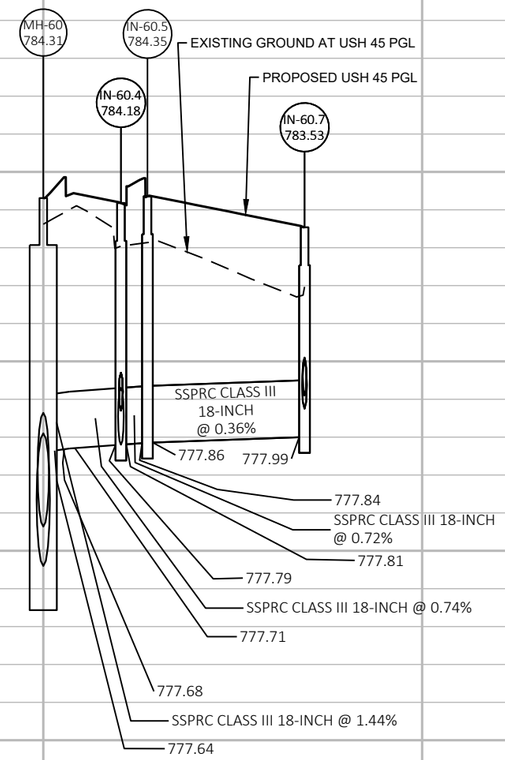
MATCH LINE STA 959+60

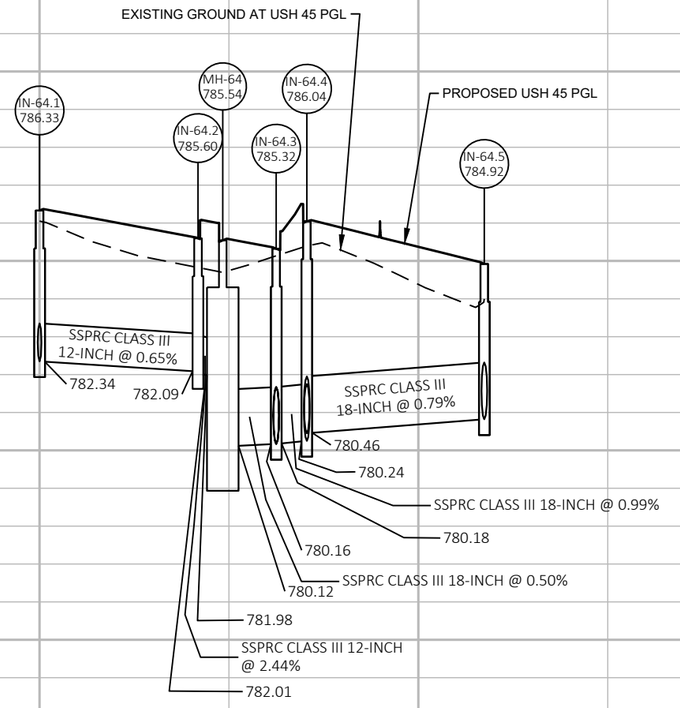
MATCH LINE STA 965+50

N

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 153	E







795 790 785 780 775 770 765 760

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 154	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 9br
PLOT DATE : 4/28/2023 10:30 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

58.3 TO 58.2
21 FT SSPRC CLASS III 12-INCH

58.3 STA 961+25, 56.0' L
INLETS 2x3-H

STA 961+04, 56.0' L
INLETS 2x3-H 58.2

58.6 TO 58.5
15 FT SSPRC CLASS III 12-INCH

58.6 STA 961+19, 14.0' L
INLETS 2x3-H

58.2 TO 58.5
42 FT SSPRC CLASS III 12-INCH

58.1 TO 58.2
34 FT SSPRC CLASS III 12-INCH

58 TO 60
51 FT SSPRC CLASS III 36-INCH

CONNECT TO EXISTING 12" PIPE
CONCRETE COLLARS FOR PIPE REQUIRED

60 STA 961+55, 13.0' L
MANHOLES 6-J

64.1 STA 963+50, 56.0' L
INLETS 2x3-H

STA 960+71, 56.3' L
INLETS 2x3-H 58.1

60.2 TO 60
7 FT SSPRC CLASS III 18-INCH

60.2 STA 961+55, 6.0' L
INLETS 2x3-H

TLE

64.1 TO 64.2
42 FT SSPRC CLASS III 12-INCH

EXIST R/W

STA 961+04, 14.0' L
INLETS 2x3-H 58.5

60.4 TO 60.2
14 FT SSPRC CLASS III 18-INCH

60.3 TO 60.4
15 FT SSPRC CLASS III 12-INCH

64.2 STA 963+55, 14.5' L
INLETS 2x3-H

64.2 TO 64
7 FT SSPRC CLASS III 12-INCH

58.4 TO 58.5
15 FT SSPRC CLASS III 12-INCH

64 STA 963+56, 8.0' L
MANHOLES 7-C

STA 960+89, 14.0' L
INLETS 2x3-H 58.4

60 TO 62
121 FT SSPRC CLASS III 42-INCH

R/L USH 45

58.5 TO 58
6 FT SSPRC CLASS III 18-INCH

963 964 965 962 961 960

64.3 TO 64
14 FT SSPRC CLASS III 18-INCH

STA 961+04, 8.0' L
MANHOLES 6-J 58

60.3 STA 961+70, 8.0' R
INLETS 2x3-H

60.5 STA 961+55, 14.5' R
INLETS 2x3-H

STA 962+73, 13.2' R
MANHOLES 6-J 62

USH 45

64.3 STA 963+58, 6.0' R
INLETS 2x3-H

64.4 STA 963+59, 14.0' R
INLETS 2x3-H

64.4 TO 64.3
8 FT SSPRC CLASS III 18-INCH

STA 961+40, 8.0' R
INLETS 2x3-H 60.1

60.7 TO 60.5
41 FT SSPRC CLASS III 18-INCH

60.1 TO 60.4
15 FT SSPRC CLASS III 12-INCH

EXIST R/W

TLE

64.5 TO 64.4
47 FT SSPRC CLASS III 18-INCH

PIPE UNDERDRAIN 6-INCH (TYP)

60.8 STA 961+70, 56.0' R
INLETS 2x3-H

64.5 STA 963+38, 56.0' R
INLETS 2x3-H

STA 961+55, 56.0' R
INLETS 2x3-H 60.7

STA 961+55, 7.5' R
INLETS 2x3-H 60.4

60.8 TO 60.7
15 FT SSPRC CLASS III 12-INCH

62.2 STA 962+94, 102.7' R
INLETS 2x3-H

WHITNALL EDGE ROAD

60.5 TO 60.4
7 FT SSPRC CLASS III 18-INCH

STA 962+53, 97.2' R
INLETS 2x3-H 62.1

62.2 TO 62.3
29 FT SSPRC CLASS III 12-INCH

STA 961+39, 56.0' R
INLETS 2x3-H 60.6

62.1 TO 62.3
11 FT SSPRC CLASS III 12-INCH

R/L WHITNALL EDGE ROAD

60.6 TO 60.7
15 FT SSPRC CLASS III 15-INCH

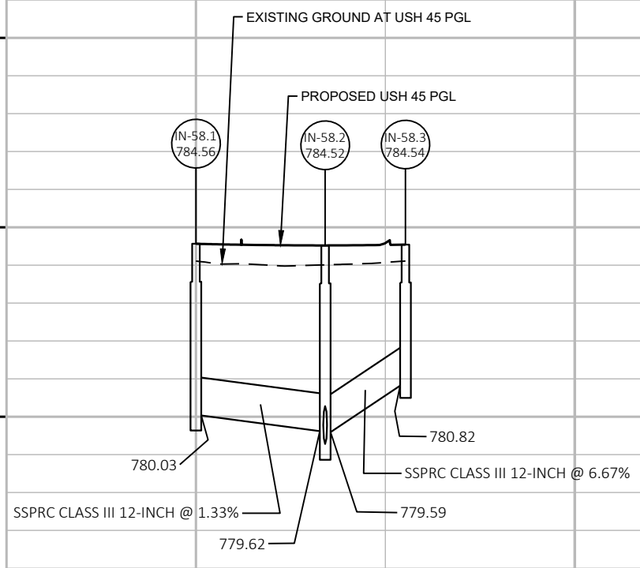
62.3 STA 962+64, 97.0' R
MANHOLES 6-J

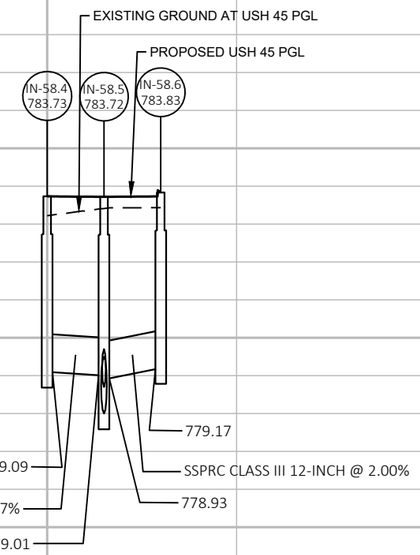
MATCH LINE STA 959+60

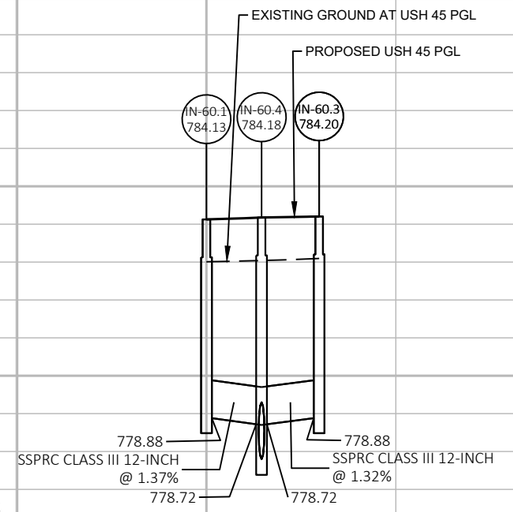
MATCH LINE STA 965+50

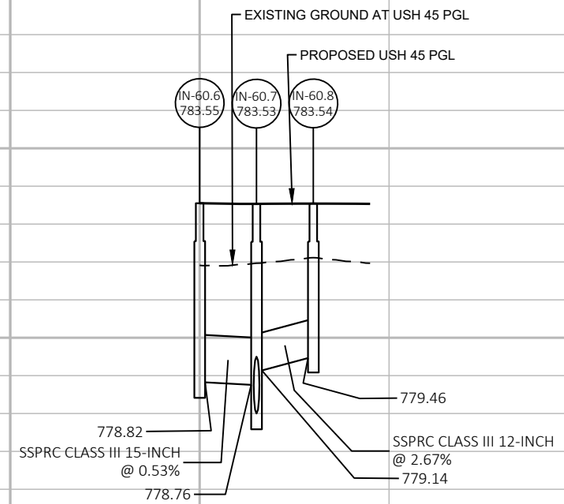
N

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 155	E









795
790
785
780
775
770
765
760

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 156	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 9cr

PLOT DATE : 4/28/2023 10:30 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

MATCH LINE STA 965+50

STA 966+50, 56.0' L
INLETS 2x3-H
66.1

66.1 TO 66.2
42 FT SSPRC CLASS III 12-INCH

TLE

EXIST R/W

EXIST R/W

PIPE UNDERDRAIN 6-INCH (TYP)

66.2 STA 966+50, 13.6' L
INLETS 2x3-H

66.2 TO 66
34 FT SSPRC CLASS III 12-INCH

USH 45

R/L USH 45

966 967 968 969 970 971

STA 966+50, 19.9' R
MANHOLES 7-J-S
66

66.3 TO 66
36 FT SSPRC CLASS III 12-INCH

REMOVE INLET COVER TYPE H FOR TEMPORARY CROSSOVER.
COVER INLET WITH STEEL PLATE
REINSTALL INLET COVERS AFTER CROSSOVERS REMOVED.

EXIST R/W

TLE

STA 966+50, 56.0' R
INLETS 2x3-H
66.3

EXIST R/W

TLE

VENTURE DRIVE

R/L VENTURE DRIVE

SIGN

SIGN

CANOPY

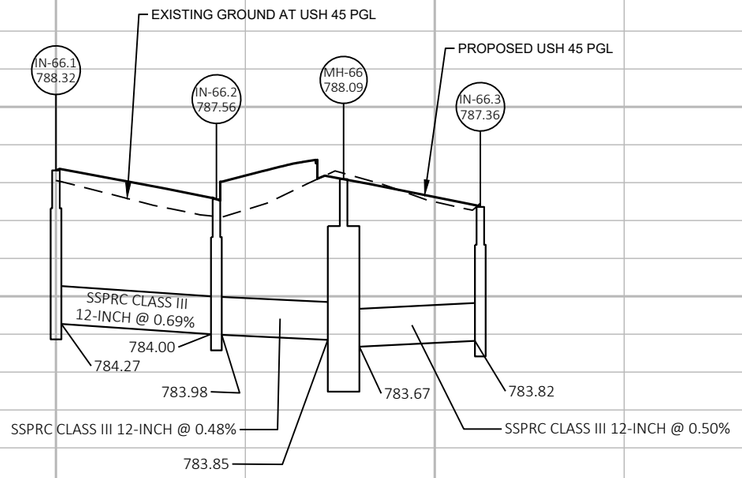
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 157	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 10bl

PLOT DATE : 4/28/2023 10:31 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

795
790
785
780
775
770
765
760



2

795
790
785
780
775
770
765
760

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	STORM SEWER	SHEET 158	E

							DISCHARGE PIPE				
STRUCT. NO	STATION	OFFSET	C-C (FT)	TO STRUCT.	TYPE	RIM/GRATE ELEV.	SIZE (IN)	INLET ELEV.*	DISCHARGE ELEV.*	LENGTH (FT)	SLOPE (%)*
10	949+20	6' LT	269	12	INLETS 4-H	804.05	24	798.42	796.41	264.58	0.75%
10.1	949+20	56' LT	42	10.2	INLETS 2x3-H	803.76	12	799.76	799.55	40.01	0.50%
10.2	949+20	14' LT	8	10	INLETS 2x3-H	804.55	12	799.55	799.41	5.02	1.75%
10.3	949+20	7.9' RT	14	10	INLETS 2x3-H	804.29	12	799.51	799.42	10.95	0.65%
10.4	949+20	15' RT	7	10.3	INLETS 2x3-H	804.36	12	799.76	799.61	5.09	2.12%
10.5	949+20	56' RT	41	10.4	INLETS 2x3-H	805.12	12	800.15	799.96	39.01	0.46%
12	946+50	7.8' LT	56	14	MANHOLES 5-J	801.31	24	794.70	794.41	50.87	0.52%
12.1	946+35	56' LT	15	12.2	INLETS 2x3-H	800.37	18	795.88	795.80	11.97	0.54%
12.2	946+50	55.9' LT	48	12	INLETS 2x3-H	800.43	24	795.09	794.92	44.62	0.35%
12.3	946+65	56' LT	15	12.2	INLETS 2x3-H	800.51	18	795.91	795.83	11.96	0.53%
12.4	946+50	1.2' LT	7	12	INLETS 2x3-H	801.30	15	796.15	796.03	3.18	1.80%
12.5	946+65	2' LT	15	12.4	INLETS 2x3-H	801.55	12	797.49	796.87	11.81	4.20%
12.6	946+50	13' RT	14	12.4	INLETS 2x3-H	800.67	12	796.86	796.73	12.10	0.92%
12.7	946+50	56' RT	43	12.6	INLETS 2x3-H	801.45	12	797.44	797.16	41.01	0.65%
14	945+94	8' LT	68	16	MANHOLES 5-C	800.95	30	793.81	793.56	62.88	0.37%
16	945+25	8.6' LT	274	18	MANHOLES 6-C	800.90	30	792.96	792.02	268.23	0.34%
16.1	946+10	76.2' LT	37	16.2	INLETS 2x3-H	799.82	12	796.11	795.92	35.12	0.51%
16.2	945+72	75.3' LT	52	16.3	INLETS 2x3-H	799.79	12	795.72	795.56	48.95	0.31%
16.3	945+22	56' LT	42	16.4	INLETS 2x3-H	800.45	24	794.76	794.55	40.06	0.50%
16.4	945+20	14' LT	8	16	INLETS 2x3-H	801.26	24	794.55	794.50	3.25	0.64%
16.5	945+25	7.9' RT	17	16	INLETS 2x3-H	800.45	15	795.02	794.74	12.53	1.70%
16.6	945+10	14.2' RT	15	16.7	INLETS 2x3-H	800.16	12	796.17	796.04	12.49	0.84%
16.7	945+25	14.2' RT	6	16.5	INLETS 2x3-H	800.15	18	795.40	795.34	4.29	0.96%
16.8	945+40	14.1' RT	15	16.7	INLETS 2x3-H	800.15	12	796.15	796.04	12.17	0.73%
16.9	945+10	56' RT	15	16.10	INLETS 2x3-H	800.95	12	796.77	796.68	12.43	0.58%
16.10	945+25	56' RT	42	16.7	INLETS 2x3-H	800.94	12	796.18	796.00	39.81	0.43%
16.11	945+40	56.4' RT	15	16.10	INLETS 2x3-H	800.96	12	796.88	796.63	12.16	1.65%

*CALCULATIONS BASED ON PIPE INTERSECTION WITH CENTER OF STRUCTURE

							DISCHARGE PIPE				
STRUCT. NO	STATION	OFFSET	C-C (FT)	TO STRUCT.	TYPE	RIM/GRATE ELEV.	SIZE (IN)	INLET ELEV.*	DISCHARGE ELEV.*	LENGTH (FT)	SLOPE (%)*
18	942+50	7.9' LT	280	20	MANHOLES 6-J	803.69	30	791.95	791.07	273.77	0.31%
18.1	942+50	56' LT	42	18.2	INLETS 2x3-H	802.58	12	798.09	797.75	40.01	0.81%
18.2	942+50	14' LT	6	18	INLETS 2x3-H	803.38	15	797.40	797.37	2.12	0.49%
18.3	942+50	11.6' RT	19	18	INLETS 2x3-H	802.62	15	798.39	798.29	15.48	0.51%
18.4	942+50	56' RT	44	18.3	INLETS 2x3-H	803.47	12	798.97	798.74	42.44	0.52%
20	939+70	8' LT	270	22	MANHOLES 6-J	805.99	36	790.57	789.61	264.01	0.36%
20.1	940+45	92' LT	44	20.2	INLETS 4-H	804.14	12	802.60	802.00	40.93	1.35%
20.2	940+04	76.2' LT	40	20.3	INLETS 2x3-H	804.89	12	801.95	801.75	36.87	0.50%
20.3	939+69	56' LT	43	20.4	INLETS 2x3-H	805.23	12	799.44	799.22	41.32	0.51%
20.4	939+66	12.8' LT	6	20	INLETS 2x3-H	805.57	15	798.87	798.81	1.48	0.93%
20.5	939+70	0.1' LT	8	20	INLETS 2x3-H	805.46	15	799.09	798.93	3.80	2.05%
20.6	939+70	56' RT	56	20.5	INLETS 2x3-H	805.31	12	801.07	799.84	54.12	2.19%
22	937+00	8' LT	265	24	MANHOLES 6-J	805.04	36	789.31	788.42	259.28	0.34%
22.1	936+92	56' LT	43	22.2	INLETS 2x3-H	804.09	12	799.61	798.96	40.73	1.52%
22.2	937+00	14' LT	6	22	INLETS 2x3-H	804.50	15	798.61	798.55	2.03	1.00%
22.3	937+00	14' RT	22	22	INLETS 2x3-H	804.27	15	798.45	798.31	18.01	0.64%
22.4	937+00	56' RT	42	22.3	INLETS 2x3-H	803.95	12	799.45	799.03	40.01	1.00%
24	934+35	8' LT	110	26	MANHOLES 6-J	801.59	36	788.02	787.56	103.95	0.42%
24.1	934+35	56' LT	48	24	INLETS 2x3-H	801.24	15	796.25	795.77	44.00	1.00%
24.2	934+35	1.6' LT	6	24	INLETS 2x3-H	801.54	18	795.89	795.82	2.42	1.09%
24.3	934+35	13.6' RT	15	24.2	INLETS 2x3-H	802.40	12	796.54	796.39	13.14	0.99%
24.4	934+35	56' RT	42	24.3	INLETS 2x3-H	802.16	12	797.07	796.64	40.43	1.01%
24.5	933+95	83.8' RT	49	24.4	INLETS 2x3-H	802.01	12	798.18	797.96	45.41	0.45%
26	933+25	8' LT	275	28	MANHOLES 6-J	801.04	36	786.96	785.66	268.82	0.47%
26.1	933+57	105' RT	24	26.2	INLETS 4-H	802.46	12	797.81	797.58	20.63	0.95%
26.2	933+50	82' RT	29	26.3	INLETS 3-Z	802.03	12	797.36	796.69	26.23	2.33%
26.3	933+40	55' RT	55	26.4	INLETS 2x2.5-BW	801.56	12	796.34	796.05	52.71	0.53%

STRUCT. NO	STATION	OFFSET	C-C (FT)	TO STRUCT.	TYPE	RIM/GRATE ELEV.	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.*	DISCHARGE PIPE DISCHARGE ELEV.*	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)*
26.4	933+30	1.2' RT	11	26	INLETS 2x3-H	801.28	15	795.70	795.59	6.45	1.05%
28	930+50	8' LT	225	30	MANHOLES 6-J	798.36	36	784.96	783.17	219.04	0.80%
28.1	930+50	56' LT	42	28.2	INLETS 2x3-H	796.98	12	792.48	792.06	40.00	1.00%
28.2	930+50	14' LT	6	28	INLETS 2x3-H	797.30	15	791.62	791.55	2.02	1.17%
28.3	930+50	7.4' RT	15	28	INLETS 2x3-H	799.71	18	793.24	793.09	11.41	0.97%
28.4	930+50	55' RT	48	28.3	INLETS 2x2.5-BW	799.56	15	794.21	793.86	45.61	0.74%
28.5	930+50	63.8' RT	9	28.4	INLETS 2x2.5-BW	800.22	12	795.09	794.96	6.85	1.47%
28.6	930+50	82' RT	18	28.5	INLETS 3-Z	800.53	12	796.03	795.66	15.70	2.04%
30	928+25	8' LT	210	32	MANHOLES 6-J	795.50	36	782.39	780.97	204.03	0.68%
30.1	928+25	57.6' LT	44	30.2	INLETS 2x3-H	794.10	12	790.00	789.55	41.52	1.03%
30.2	928+25	14' LT	6	30	INLETS 2x3-H	794.43	15	788.72	788.69	2.01	0.50%
30.3	928+25	14' RT	22	30	INLETS 2x3-H	796.84	15	790.45	790.25	18.00	0.91%
30.4	928+25	55' RT	41	30.3	INLETS 2x2.5-BW	796.55	12	791.55	790.80	39.05	1.83%
30.5	928+25	63.8' RT	9	30.4	INLETS 2x2.5-BW	798.84	12	792.67	792.55	6.81	1.36%
30.6	928+25	82' RT	18	30.5	INLETS 3-Z	799.14	12	794.59	794.35	15.73	1.32%
32	926+15	8' LT	216	34	MANHOLES 6-J	791.65	36	780.39	779.75	209.71	0.30%
32.1	926+15	88' LT	24	32.2	INLETS 2x3-H	790.34	12	786.80	786.56	22.01	1.00%
32.2	926+15	64' LT	8	32.3	INLETS 2x3-H	790.35	12	786.38	786.33	6.02	0.63%
32.3	926+15	56' LT	42	32.4	INLETS 2x3-H	791.59	12	786.26	785.77	40.01	1.17%
32.4	926+15	14' LT	6	32	INLETS 2x3-H	790.71	15	785.25	785.15	2.04	1.66%
32.5	926+15	14' RT	22	32	INLETS 2x3-H	792.34	15	786.00	785.75	18.00	1.14%
32.6	926+15	55' RT	41	32.5	INLETS 2x2.5-BW	791.50	15	786.85	786.60	39.03	0.61%
32.7	926+15	63.8' RT	9	32.6	INLETS 2x2.5-BW	793.71	12	787.63	787.50	6.84	1.47%
32.8	926+15	82' RT	18	32.7	INLETS 3-Z	794.02	12	789.52	789.15	15.72	2.03%
34	924+00	8' LT	80	36	MANHOLES 6-J	786.78	36	778.30	778.03	73.94	0.34%
34.1	924+35	88' LT	43	34.2	INLETS 2x3-H	788.31	12	784.50	783.87	39.39	1.46%
34.2	924+00	64.1' LT	8	34.3	INLETS 2x3-H	787.92	12	783.20	783.12	6.07	0.99%

*CALCULATIONS BASED ON PIPE INTERSECTION WITH CENTER OF STRUCTURE

STRUCT. NO	STATION	OFFSET	C-C (FT)	TO STRUCT.	TYPE	RIM/GRATE ELEV.	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.*	DISCHARGE PIPE DISCHARGE ELEV.*	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)*
34.3	924+00	56' LT	48	34	INLETS 2x3-H	788.10	12	782.72	782.24	44.01	1.00%
34.4	924+00	0.8' LT	7	34	INLETS 2x3-H	786.78	18	779.98	779.94	3.16	0.56%
34.5	924+00	10.9' RT	12	34.4	INLETS 2x3-H	787.39	15	780.35	780.28	9.65	0.60%
34.6	924+00	55' RT	44	34.5	INLETS 2x2.5-BW	786.04	12	781.08	780.66	42.05	0.95%
34.7	924+00	64.2' RT	9	34.6	INLETS 2x2.5-BW	785.86	12	781.35	781.26	7.23	0.98%
34.8	924+00	82.2' RT	18	34.7	INLETS 3-Z	786.14	12	781.71	781.49	15.51	1.22%
36	923+20	6' LT	111	38	MANHOLES 6-J	785.65	36	774.86	774.12	104.76	0.67%
36.1	923+65	130.5' RT	37	36.2	INLETS 4-H	785.78	12	780.98	779.21	33.05	4.79%
36.2	923+25	131.5' RT	66	36.3	INLETS 4-H	783.88	12	779.01	778.58	62.15	0.65%
36.3	923+19	65.6' RT	72	36	INLETS 4-HM	784.18	24	777.49	777.06	66.64	0.60%
38	922+10	8' LT	186	40	MANHOLES 6-J	783.42	36	774.02	772.71	180.30	0.70%
40	920+25	14' LT	87	42	MANHOLES 6-C	779.70	36	770.61	769.96	80.95	0.75%
40.1	920+25	56' RT	54	40.2	INLETS 2x3-HM	778.43	12	774.56	773.84	52.03	1.33%
40.2	920+25	2' RT	16	40	INLETS 2x3-HM	780.25	15	773.16	772.76	12.03	2.50%
42	920+00	97' LT	203	AEW 420	MANHOLES 6-J	779.87	36	768.47	748.00	202.45	10.06%
AEW 420	918+72	246.2' LT			APRON ENDWALLS FOR CPRC 36-INCH	751.33			787.50		
44.1	916+03	65.2' RT	50	44.2	INLETS 2x3-HM	774.98	12	769.50	769.00	47.17	1.00%
44.2	916+03	15' RT	143	44.3	INLETS 4-HM	776.44	12	768.90	767.40	138.53	1.05%
44.3	917+43	14.3' LT	47	44.4	INLETS 4-HM	776.38	15	767.00	766.50	43.80	1.07%
44.4	917+42	61.1' LT	164	AEW 440	INLETS 2x3-HM	777.95	15	765.60	752.50	164.03	7.99%
AEW 440	917+97	214.7' LT			APRON ENDWALLS FOR CPRC 15-INCH	753.94			782.24		
50	953+20	8' LT	280	52	INLETS 4-H	803.23	24	790.30	788.90	275.73	0.50%
50.1	953+20	68' LT	54	50.2	INLETS 2x3-H	802.28	12	796.50	795.90	51.54	1.12%
50.2	953+20	14.5' LT	6	50	INLETS 2x3-H	802.98	15	795.15	795.05	3.50	1.54%
50.3	953+20	6' RT	14	50	INLETS 2x3-H	802.99	15	796.70	796.55	11.01	1.07%
50.4	953+20	14' RT	8	50.3	INLETS 2x3-H	803.67	12	797.60	797.45	6.01	1.88%
50.5	953+20	56' RT	42	50.4	INLETS 2x3-H	804.20	12	799.00	798.60	40.03	0.95%

2

							DISCHARGE PIPE				
STRUCT. NO	STATION	OFFSET	C-C (FT)	TO STRUCT.	TYPE	RIM/GRATE ELEV.	SIZE (IN)	INLET ELEV.*	DISCHARGE ELEV.*	LENGTH (FT)	SLOPE (%)*
52	956+00	8' LT	201	54	MANHOLES 5-C	794.80	30	781.90	780.90	195.65	0.50%
52.1	956+00	58.9' LT	44	52.2	INLETS 2x3-H	795.60	12	789.91	789.45	42.48	1.03%
52.2	956+00	14.4' LT	6	52	INLETS 2x3-H	794.76	15	787.70	787.64	2.90	0.94%
52.3	956+00	6' RT	14	52	INLETS 2x3-H	794.56	18	788.00	787.90	10.52	0.71%
52.4	956+00	14' RT	8	52.3	INLETS 2x3-H	796.17	18	788.60	788.32	6.06	3.50%
52.5	956+00	56' RT	42	52.4	INLETS 2x3-H	795.37	15	789.60	789.35	40.00	0.60%
52.6	955+21	56' RT	77	52.5	INLETS 2x3-H	798.33	15	791.00	790.60	74.13	0.52%
54	958+00	8' LT	146	56	MANHOLES 5-J	788.84	30	778.90	778.00	140.99	0.61%
56	959+46	8' LT	159	58	MANHOLES 6-J	785.64	36	777.40	776.62	152.64	0.49%
56.1	959+46	56' LT	42	56.2	INLETS 2x3-H	785.71	12	779.83	779.31	40.02	1.24%
56.2	959+46	14' LT	6	56	INLETS 2x3-H	784.91	15	778.96	778.84	2.03	2.00%
56.3	959+46	10.9' RT	19	56	INLETS 2x3-H	786.21	24	778.30	777.94	14.95	1.90%
56.4	959+46	56' RT	45	56.3	INLETS 4-H	785.35	24	779.03	778.50	42.14	1.17%
58	961+04	8' LT	51	60	MANHOLES 6-J	784.87	36	775.90	775.64	45.07	0.51%
58.1	960+71	56.3' LT	34	58.2	INLETS 2x3-H	784.56	12	780.05	779.60	31.14	1.33%
58.2	961+04	56' LT	42	58.5	INLETS 2x3-H	784.52	12	779.28	778.70	40.04	1.38%
58.3	961+25	56' LT	21	58.2	INLETS 2x3-H	784.54	12	780.91	779.50	18.33	6.67%
58.4	960+89	14' LT	15	58.5	INLETS 2x3-H	783.73	12	779.10	779.00	12.01	0.67%
58.5	961+04	14' LT	6	58	INLETS 2x3-H	783.72	18	778.00	777.98	1.99	0.33%
58.6	961+19	14' LT	15	58.5	INLETS 2x3-H	783.83	12	779.20	778.90	12.01	2.00%
60	961+55	13' LT	121	62	MANHOLES 6-J	784.31	42	774.60	774.00	114.85	0.50%
60.1	961+40	6' LT	15	60.2	INLETS 2x3-H	784.36	12	778.90	778.70	11.90	1.34%
60.2	961+55	6' LT	7	60	INLETS 2x3-H	784.40	18	777.70	777.60	2.98	1.44%
60.3	961+70	6' LT	15	60.2	INLETS 2x3-H	784.44	12	778.90	778.70	12.07	1.33%
60.4	961+55	7.5' RT	14	60.2	INLETS 2x3-H	784.18	18	777.80	777.70	11.56	0.74%
60.5	961+55	14.5' RT	7	60.4	INLETS 2x3-H	784.35	18	777.85	777.80	5.01	0.72%
60.6	961+39	56' RT	15	60.7	INLETS 2x3-H	783.55	15	778.83	778.75	12.01	0.53%

*CALCULATIONS BASED ON PIPE INTERSECTION WITH CENTER OF STRUCTURE

							DISCHARGE PIPE				
STRUCT. NO	STATION	OFFSET	C-C (FT)	TO STRUCT.	TYPE	RIM/GRATE ELEV.	SIZE (IN)	INLET ELEV.*	DISCHARGE ELEV.*	LENGTH (FT)	SLOPE (%)*
60.7	961+55	56' RT	41	60.5	INLETS 2x3-H	783.53	18	778.00	777.85	39.47	0.36%
60.8	961+70	56' RT	15	60.7	INLETS 2x3-H	783.54	12	779.50	779.10	12.03	2.67%
62	962+73	13.2' RT			MANHOLES 6-J	784.94					
64	963+56	8' LT			MANHOLES 7-C	785.54					
64.1	963+50	56' LT	42	64.2	INLETS 2x3-H	786.33	12	782.35	782.08	39.81	0.65%
64.2	963+55	14.5' LT	7	64	INLETS 2x3-H	785.60	12	782.04	781.88	2.07	2.44%
64.3	963+58	6' RT	14	64	INLETS 2x3-H	785.32	18	780.17	780.10	9.61	0.50%
64.4	963+59	14' RT	8	64.3	INLETS 2x3-H	786.04	18	780.25	780.17	6.08	0.99%
64.5	963+38	56' RT	47	64.4	INLETS 2x3-H	784.92	18	780.82	780.45	44.53	0.79%
66	966+50	19.9' RT			MANHOLES 7-J-S	788.09					
66.1	966+50	56' LT	42	66.2	INLETS 2x3-H	788.32	12	784.28	783.99	40.36	0.69%
66.2	966+50	13.6' LT	34	66	INLETS 2x3-H	787.56	12	783.99	783.83	29.05	0.48%
66.3	966+50	56' RT	36	66	INLETS 2x3-H	787.36	12	783.83	783.65	31.60	0.50%

2

2

2

RAWSON NW RAMP

FR-HVB-01
ADJUST HYD VALVE BOX
921+04,95'LT

FR-VB-01
ADJUST VALVE BOX
920+93,100'LT

FR-MH-01
MANHOLE ADJUSTMENT
920+83,93'LT

FR-VB-02
ADJUST VALVE BOX
920+96,93'LT

FR-HYD-01
RELOCATE HYDRANT ASSEMBLY
921+04,96'LT

FR-VB-03
ADJUST VALVE BOX
923+66,71'LT

FR-MH-04
MANHOLE ADJUSTMENT
923+62,66'LT

FR-MH-02
MANHOLE ADJUSTMENT
922+86,50'LT

FR-MH-03
MANHOLE ADJUSTMENT
923+53,75'RT

FR-VB-05
ADJUST VALVE BOX
923+72,71'LT

FR-MH-05
REPLACE MANHOLE CASTING
926+30,58'LT

FR-HVB-03
RELOCATE & REPLACE HYD VALVE & BOX
924+06,69'LT

FR-HYD-03
RELOCATE HYDRANT ASSEMBLY
924+05,55'LT

FR-HVB-20
ADJUST HYD VALVE BOX
926+64,86'RT

FR-VB-06
ADJUST VALVE BOX
923+72,85'RT

FR-MH-06
MANHOLE ADJUSTMENT
926+47,73'RT

FR-VB-04
ADJUST VALVE BOX
923+69,90'RT

FR-HVB-02
ADJUST HYD VALVE BOX
923+67,97'RT

FR-HYD-02
ADJUST HYDRANT ASSEMBLY
923+65,97'RT

PROPOSED WATER MAIN
BY OTHERS

FR-VB-33
ADJUST VALVE BOX
926+56,88'RT

FR-HYD-20
NO ADJUSTMENT
926+61,86'RT

1001
CP DOT FENO

USH 45

FRANK &
SALLY STANZER

RUSSEL &
SHIRLEY A
SPLIKA

GERARDO &
ROXANNA
HUERTA

JEFFERY R
PIONTKOWSKY &
MARY C. SPRYZACK

AARON G
BAUMANN

DEAN & MARY
LEE ADAMS

920+00
921+00
922+00
923+00
924+00
925+00
926+00
927+00

926+08.16

24" D wat inv

27" 87 bot strm pipe

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	UTILITY ADJUSTMENT DETAILS	SHEET 162	E

2

2

FR-HVB-04
RELOCATE & REPLACE HYD VALVE & BOX
927+61,60'LT

FR-VB-07
ADJUST VALVE BOX
929+00,65'LT

FR-HVB-05
ADJUST HYD VALVE BOX
930+16,60'LT

FR-HYD-05
NO ADJUSTMENT
930+18,60'LT

FR-HVB-07
ADJUST HYD VALVE BOX
934+21,60'LT

FR-HYD-07
NO ADJUSTMENT
934+23,60'LT

FR-VB-11
ADJUST VALVE BOX
933+95,61'LT

FR-VB-09
ADJUST VALVE BOX
933+90,52'LT

FR-VB-08
ADJUST VALVE BOX
933+57,64'LT

FR-HYD-04
RELOCATE HYDRANT ASSEMBLY
927+63,59'LT

FR-MH-08
MANHOLE ADJUSTMENT
930+21,49'LT

USH 45

FR-MH-10
REPLACE MANHOLE CASTING
932+62,44'LT

928+00 929+00 930+00 931+00 932+00 933+00 934+00

FR-MH-07
MANHOLE ADJUSTMENT
929+23,74'RT

FR-MH-09
MANHOLE ADJUSTMENT
931+84,74'RT

FR-VB-10
ADJUST VALVE BOX
933+90,68'RT

PROPOSED WATER MAIN
BY OTHERS

FR-HVB-06
RELOCATE & REPLACE HYD VALVE & BOX
933+95,90'RT

FR-HYD-21
NO ADJUSTMENT
929+91,86'RT

FR-HVB-21
ADJUST HYD VALVE BOX
929+94,86'RT

PROPOSED WATER MAIN
BY OTHERS

FR-HYD-06
RELOCATE HYDRANT ASSEMBLY
934+00,90'RT

HERDA PL

G.
NN

JOHN &
DIANE WINKOWSKI

ANTHONY WAYNE
SCHOOLEY

HOWARD D.
VERGURGT

ELLEN HESS

VINCENT L. &
BILLY RAE TRIPI

JO
SU

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	UTILITY ADJUSTMENT DETAILS	SHEET 163	E

2

2

N

MATHEW M. LEWITZKE

DRAGAN &
JOKA RADETA

RAFAEL &
GLORIA CRUZ

W CORTEZ RD

FR-HYD-08
ADJUST HYDRANT ASSEMBLY
937+43,60'LT

FR-HVB-08
ADJUST HYD VALVE BOX
937+41,60'LT

FR-VB-13
ADJUST VALVE BOX
940+04,62'LT

FR-VB-12
ADJUST VALVE BOX
940+01,52'LT

FR-VB-14
ADJUST VALVE BOX
940+30,66'LT

FR-HVB-09
ADJUST HYD VALVE BOX
940+52,60'LT

FR-HYD-09
RELOCATE HYDRANT ASSEMBLY
940+53,60'LT

FR-MH-12
REPLACE MANHOLE CASTING
938+27,46'LT

FR-MH-13
REPLACE MANHOLE CASTING
940+20,55'LT

935+00 936+00 937+00 938+00 939+00 940+00 941+00 942+00

PC: 941+83,71

FR-MH-11
REPLACE MANHOLE CASTING
935+47,44'LT

USH 45

OSHUA B. &
UZANNE L. BRESLOW

WHITNALL POINTE
LIMITED
PARTERNERSHIP

W CORTEZ CIR

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	UTILITY ADJUSTMENT DETAILS	SHEET 164	E

FILE NAME : C:\PW_WORKDIR\PW_IE\MLH2\D0627077\023001-UP.DWG
LAYOUT NAME - 03

PLOT DATE : 5/30/2023 7:12 AM PLOT BY : HEIN, MIKE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

RICK & RON DEVELOPMENT LLC

GUMIENY FAMILY TRUST

S PRAIRIE WOOD LN

USH 45

W CORTEZ CIR

NISEBAUM HOLMES & REALTY, INC.

FR-HYD-10
NO ADJUSTMENT
944+59,60'LT

FR-HVB-10
ADJUST HYD VALVE BOX
944+57,61'LT

FR-VB-18
ADJUST VALVE BOX
945+70,63'LT

FR-MH-15
REMOVE SANITARY SEWER MANHOLE
947+20,54'LT

FR-HYD-12
ADJUST HYDRANT ASSEMBLY
950+27,62'RT

FR-VB-19
ADJUST VALVE BOX
946+07,64'LT

FR-HVB-12
ADJUST HYD VALVE BOX
950+26,60'RT

FR-VB-15
ADJUST VALVE BOX
945+58,62'LT

1003
CP DOT FENO

FR-VB-17
ADJUST VALVE BOX
945+63,56'RT

FR-HYD-11
NO ADJUSTMENT
946+27,63'RT

FR-MH-14
REPLACE MANHOLE CASTING
BULKHEAD NORTH FLOWLINE
944+27,42'LT

FR-VB-16
RELOCATE & REPLACE 8" MAIN VALVE & BOX
945+56,71'RT

FR-HVB-11
ADJUST HYD VALVE BOX
946+25,63'RT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	UTILITY ADJUSTMENT DETAILS	SHEET 165	E

2

2

WAUWATOSA SAVINGS BANK

W SPEEDWAY DR

W CORTEZ CIR

USH 45

SIGN

FR-HYD-15
RELOCATE HYDRANT ASSEMBLY
958+20,65'RT

FR-HVB-15
ADJUST HYD VALVE BOX
958+18,66'RT

FR-HYD-13
NO ADJUSTMENT
951+80,111'LT

FR-HYD-14
NO ADJUSTMENT
954+28,62'RT

FR-HVB-13
ADJUST HYD VALVE BOX
951+81,72'LT

FR-HVB-14
ADJUST HYD VALVE BOX
954+26,61'RT

FR-VB-21
ADJUST VALVE BOX
951+76,71'LT

FR-VB-22
ADJUST VALVE BOX
953+26,58'RT

FR-VB-20
ADJUST VALVE BOX
951+50,62'RT

PC:955+38.00

PT:953+18.95

951+00 952+00 953+00 954+00 955+00 956+00 957+00 958+00 959+00

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	UTILITY ADJUSTMENT DETAILS	SHEET 166	E

FR-VB-29
ADJUST VALVE BOX
963+15,65'LT

FR-VB-27
ADJUST VALVE BOX
963+09,65'LT

FR-MH-17
MANHOLE ADJUSTMENT
963+00,50'LT

FR-VB-24
ADJUST VALVE BOX
962+70,68'LT

WHITNALL
EDGE RD

FR-HYD-17
NO ADJUSTMENT
963+51,60'LT

FR-MH-18
REPLACE MANHOLE CASTING
965+45,61'LT

FR-HVB-18
ADJUST HYD VALVE BOX
966+41,67'LT

1065
CROOT FENO

FR-HVB-17
ADJUST HYD VALVE BOX
963+49,61'LT

965+00

964+00

963+00

962+00

FR-HYD-18
NO ADJUSTMENT
966+41,61'LT

FR-VB-28
ADJUST VALVE BOX
963+10,61'LT

FR-HYD-16
ADJUST HYDRANT ASSEMBLY
962+31,61'RT

960+00

959+00

USH 45

FR-HVB-16
ADJUST HYD VALVE BOX
962+31,67'RT

FR-VB-23
ADJUST VALVE BOX
962+43,68'RT

FR-MH-16
MANHOLE ADJUSTMENT
962+77,83'RT

FR-VB-26
ADJUST VALVE BOX
962+97,38'RT

FR-VB-25
ADJUST VALVE BOX
962+90,74'RT

WHITNALL
EDGE RD

BOUCHER
HOLDINGS, LLC

HARTLAND
MEADOWS LLC

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	UTILITY ADJUSTMENT DETAILS	SHEET 167	E

2

2

HILLER FORD , INC &
DEALERSHIP PROPERTIES

CBDT 6321
REAL ESTATE LLC

EWALD REAL
ESTATE
SOUTHWEST, LLC

EWALD REAL ESTATE
6269, LLC (AIRSTREAM)

FR-VB-32
ADJUST VALVE BOX
968+51,67'LT

FR-MH-21
REPLACE MANHOLE CASTING
967+93,61'LT

FR-HYD-19
NO ADJUSTMENT
966+60,59'RT

FR-HVB-19
ADJUST HYD VALVE BOX
966+61,65'RT

USH 45

FR-MH-20
REPLACE MANHOLE CASTING
967+39,80'RT

BOSCHI
INVESTMENTS
(KINDERCARE)

FR-VB-30
ADJUST VALVE BOX
967+01,64'RT

FR-VB-31
ADJUST VALVE BOX
967+07,83'RT

FR-MH-19
REPLACE MANHOLE CASTING
966+97,80'RT

W VENTURE DR

THE HOLZ FAMILY,
LLC

RITZMAN REAL ESTATE
INVESTMENTS, LLC

FILLER
CAPS

FILLER
CAPS

CANOPY

CANOPY

SIGN

INL

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	UTILITY ADJUSTMENT DETAILS	SHEET 168	E

FILE NAME : C:\PW_WORKDIR\PW_IE\MLH2\D0627077\023001-UP.DWG
LAYOUT NAME - 07

PLOT DATE : 5/30/2023 7:14 AM

PLOT BY : HEIN, MIKE

PLOT NAME :

PLOT SCALE : Custom

WISDOT/CADDS SHEET 42

Hydrant Adjustments

ID	STA	Existing Elev	Proposed Elev	Difference (Ft)	Adjustment
FR-HYD-01	921+04, -96	780.29	781.61	1.32	Relocation & Reuse
FR-HYD-02	923+65, 97	785.11	785.88	0.77	Adjust to final grade
FR-HYD-03	924+05, -55	788.1	787.8	-0.3	Relocation & Reuse
FR-HYD-04	927+63, -59	793.9	793.81	-0.09	Relocation & Reuse
FR-HYD-05	930+18, -60	796.98	797.2	0.22	No Adjustment
FR-HYD-06	934+00, 90	802.79	802.52	-0.27	Relocation & Replace
FR-HYD-07	934+23, -60	801.45	801.67	0.22	No Adjustment
FR-HYD-08	937+43, -60	804.58	805.18	0.6	Adjust to final grade
FR-HYD-09	940+53, -60	805.16	804.55	-0.61	Relocation & Reuse
FR-HYD-10	944+59, -60	801.08	801.45	0.37	No Adjustment
FR-HYD-11	946+27, 63	802.38	801.95	-0.43	No Adjustment
FR-HYD-12	950+27, 62	807.57	806.77	-0.8	Adjust to final grade
FR-HYD-13	951+80, -111	802.98	803.39	0.41	No Adjustment
FR-HYD-14	954+28, 62	802.05	802.09	0.04	No Adjustment
FR-HYD-15	958+20, 65	787.97	788.86	0.89	Relocation & Reuse
FR-HYD-16	962+31, 61	782.78	784.38	1.6	Adjust to final grade
FR-HYD-17	963+51, -60	786.82	786.79	-0.03	No Adjustment
FR-HYD-18	966+41, -61	788.61	788.98	0.37	No Adjustment
FR-HYD-19	966+60, 59	787.94	787.89	-0.05	No Adjustment
FR-HYD-20	926+61, 86	796.14	796.14	0	No Adjustment
FR-HYD-21	929+91, 86	800.8	800.8	0	No Adjustment

Sanitary Manholes

ID	STA	Existing Elev	Proposed Elev	Difference (Ft)	Adjustment	Notes
FR-MH-01	920+83, -93	781.44	780.89	-0.55	Adjust to final grade	
FR-MH-02	922+86, -50	786.62	785.22	-1.4	Adjust to final grade	
FR-MH-03	923+53, 75	785.4	785.08	-0.32	Adjust to final grade	
FR-MH-04	923+62, -66	787.4	787.38	-0.02	Adjust to final grade	No 2" Paving Ring within Frame
FR-MH-05	926+30, -58	792.21	791.55	-0.66	Rotate cone 180° & adjust to final grade	New Frame & Lid
FR-MH-06	926+47, 73	795.15	795	-0.15	Adjust to final grade	
FR-MH-07	929+23, 74	799.29	799.78	0.49	Add 16" barrel section. Adjust to final grade	
FR-MH-08	930+21, -49	796.97	796.82	-0.15	Adjust to final grade	
FR-MH-09	931+84, 74	801.2	801.09	-0.11	Adjust to final grade	
FR-MH-10	932+62, -44	799.65	799.58	-0.07	Adjust to final grade	New Frame & Lid
FR-MH-11	935+47, -44	802.69	802.74	0.05	Adjust to final grade	New Frame & Lid
FR-MH-12	938+27, -46	805.54	805.43	-0.11	Adjust to final grade	New Frame & Lid
FR-MH-13	940+20, -55	805.55	804.97	-0.58	Remove top 16" barrel section, replace salvaged cone, and adjust to final grade	New Frame & Lid
FR-MH-14	944+27, -42	801.33	801.45	0.12	Adjust to final grade	New Frame & Lid. Bulkhead North Flowline
FR-MH-15	947+20, -54	800.7	800.98	0.28	Remove Manhole	See Detail
FR-MH-16	962+77, 83	782.41	783.74	1.33	Add 16" barrel section. Adjust to final grade	
FR-MH-17	963+00, -50	785.62	785.81	0.19	Adjust to final grade	Keep 6" Frame. Add Additonal 2" Paving Ring
FR-MH-18	965+45, -61	788.85	788.68	-0.17	Adjust to final grade	New Frame & Lid
FR-MH-19	966+97, 80	788.44	787.81	-0.63	Remove top 64" barrel section, replace with new 48" barrel section, replace salvaged cone, and adjust to final grade	New Frame & Lid
FR-MH-20	967+39, 80	787.99	787.93	-0.06	Adjust to final grade	New Frame & Lid
FR-MH-21	967+93, -61	787.44	786.9	-0.54	Adjust to final grade	New Frame & Lid

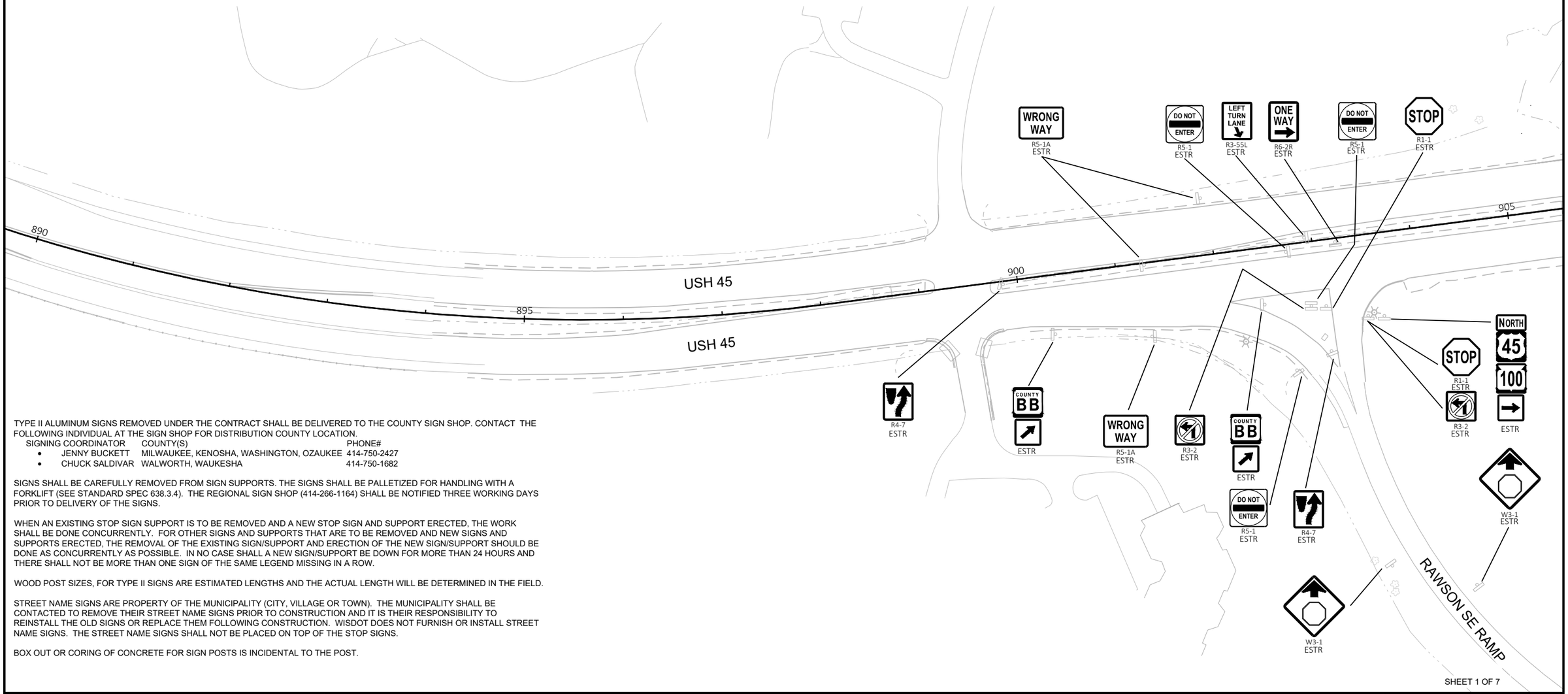
Water Valve Adjustments						
ID	STA	Existing Elev	Proposed Elev	Difference (Ft)	Size	Adjustment
FR-VB-01	920+93, -100	779.95	781.26	1.31	16	Adjust to final grade
FR-VB-02	920+96, -93	781.09	780.96	-0.13	20	Adjust to final grade
FR-VB-03	923+66, -71	787.36	787.71	0.35	8	Adjust to final grade
FR-VB-04	923+69, 90	785.27	785.9	0.63	8	Adjust to final grade
FR-VB-05	923+72, -71	787.53	787.77	0.24	20	Adjust to final grade
FR-VB-06	923+72, 85	785.49	786.05	0.56	8	Adjust to final grade
FR-VB-07	929+00, -65	795.91	795.93	0.02	Service	Adjust to final grade
FR-VB-08	933+57, -64	801.49	801.1	-0.39	Service	Adjust to final grade
FR-VB-09	933+90, -52	800.95	800.98	0.03	8	Adjust to final grade
FR-VB-10	933+90, 68	801.97	802.03	0.06	8	Adjust to final grade
FR-VB-11	933+95, -61	801.17	801.11	-0.06	20	Adjust to final grade
FR-VB-12	940+01, -52	805.69	805.17	-0.52	8	Adjust to final grade
FR-VB-13	940+04, -62	805.56	805.03	-0.53	20	Adjust to final grade
FR-VB-14	940+30, -66	805.27	804.89	-0.38	12	Adjust to final grade
FR-VB-15	945+58, -62	800.31	800.47	0.16	20	Adjust to final grade
FR-VB-16	945+56, 71	802.71	801.65	-1.06	8"	Relocation and Replace
FR-VB-17	945+63, 56	801.45	801.02	-0.43	20	Adjust to final grade
FR-VB-18	945+70, -63	799.59	800.09	0.5	12	Adjust to final grade
FR-VB-19	946+07, -64	799.8	800.19	0.39	8	Adjust to final grade
FR-VB-20	951+50, 62	808.15	806.47	-1.68	8	Adjust to final grade
FR-VB-21	951+76, -71	803.56	803.66	0.1	8	Adjust to final grade
FR-VB-22	953+26, 58	804.93	804.55	-0.38	20	Adjust to final grade
FR-VB-23	962+43, 68	782.83	784.01	1.18	20	Adjust to final grade
FR-VB-24	962+70, -68	786.94	786.08	-0.86	12	Adjust to final grade
FR-VB-25	962+90, 74	782.53	783.74	1.21	12	Adjust to final grade
FR-VB-26	962+97, 38	783.89	784.76	0.87	16	Adjust to final grade
FR-VB-27	963+09, -65	786.22	786.26	0.04	8	Adjust to final grade
FR-VB-28	963+10, -61	786.12	786.16	0.04	16	Adjust to final grade
FR-VB-29	963+15, -65	786.29	786.29	0	8	-
FR-VB-30	967+01, 64	787.73	787.42	-0.31	20	Adjust to final grade
FR-VB-31	967+07, 83	788.18	787.67	-0.51	8	Adjust to final grade
FR-VB-32	968+51, -67	787.17	785.6	-1.57	Service	Adjust to final grade
FR-VB-33	926+56, 88	796.03	796.03	0	8	Adjust to final grade

Hydrant Valve Adjustments					
ID	STA	Existing Elev	Proposed Elev	Difference (Ft)	Adjustment
FR-HVB-01	921+04, -95	780.57	781.61	1.04	Adjust to final grade
FR-HVB-02	923+67, 97	785.46	786.08	0.62	Adjust to final grade
FR-HVB-03	924+06, -69	788.06	788.1	0.04	Relocation & Replace
FR-HVB-04	927+61, -60	793.97	793.7	-0.27	Relocation & Replace
FR-HVB-05	930+16, -60	797.4	797.19	-0.21	Adjust to final grade
FR-HVB-06	933+95, 90	802.55	802.52	-0.03	Relocation & Replace
FR-HVB-07	934+21, -60	801.58	801.65	0.07	Adjust to final grade
FR-HVB-08	937+41, -60	805.18	805.17	-0.01	Adjust to final grade
FR-HVB-09	940+52, -60	805.44	804.69	-0.75	Adjust to final grade
FR-HVB-10	944+57, -61	801.21	801.49	0.28	Adjust to final grade
FR-HVB-11	946+25, 63	802.34	801.92	-0.42	Adjust to final grade
FR-HVB-12	950+26, 60	807.55	806.69	-0.86	Adjust to final grade
FR-HVB-13	951+81, -72	803.53	803.62	0.09	Adjust to final grade
FR-HVB-14	954+26, 61	802.06	802.09	0.03	Adjust to final grade
FR-HVB-15	958+18, 66	788.49	788.93	0.44	Adjust to final grade
FR-HVB-16	962+31, 67	783.47	784.53	1.06	Adjust to final grade
FR-HVB-17	963+49, -61	787.14	786.93	-0.21	Adjust to final grade
FR-HVB-18	966+41, -67	789.5	789.13	-0.37	Adjust to final grade
FR-HVB-19	966+61, 65	788.32	787.96	-0.36	Adjust to final grade
FR-HVB-20	926+64, 86	796.23	796.23	0	Adjust to final grade
FR-HVB-21	929+94, 86	800.82	800.82	0	Adjust to final grade

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTY(S)	PHONE#
• JENNY BUCKETT	MILWAUKEE, KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
• CHUCK SALDIVAR	WALWORTH, WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1164) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POST SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

BOX OUT OR CORING OF CONCRETE FOR SIGN POSTS IS INCIDENTAL TO THE POST.

SHEET 1 OF 7

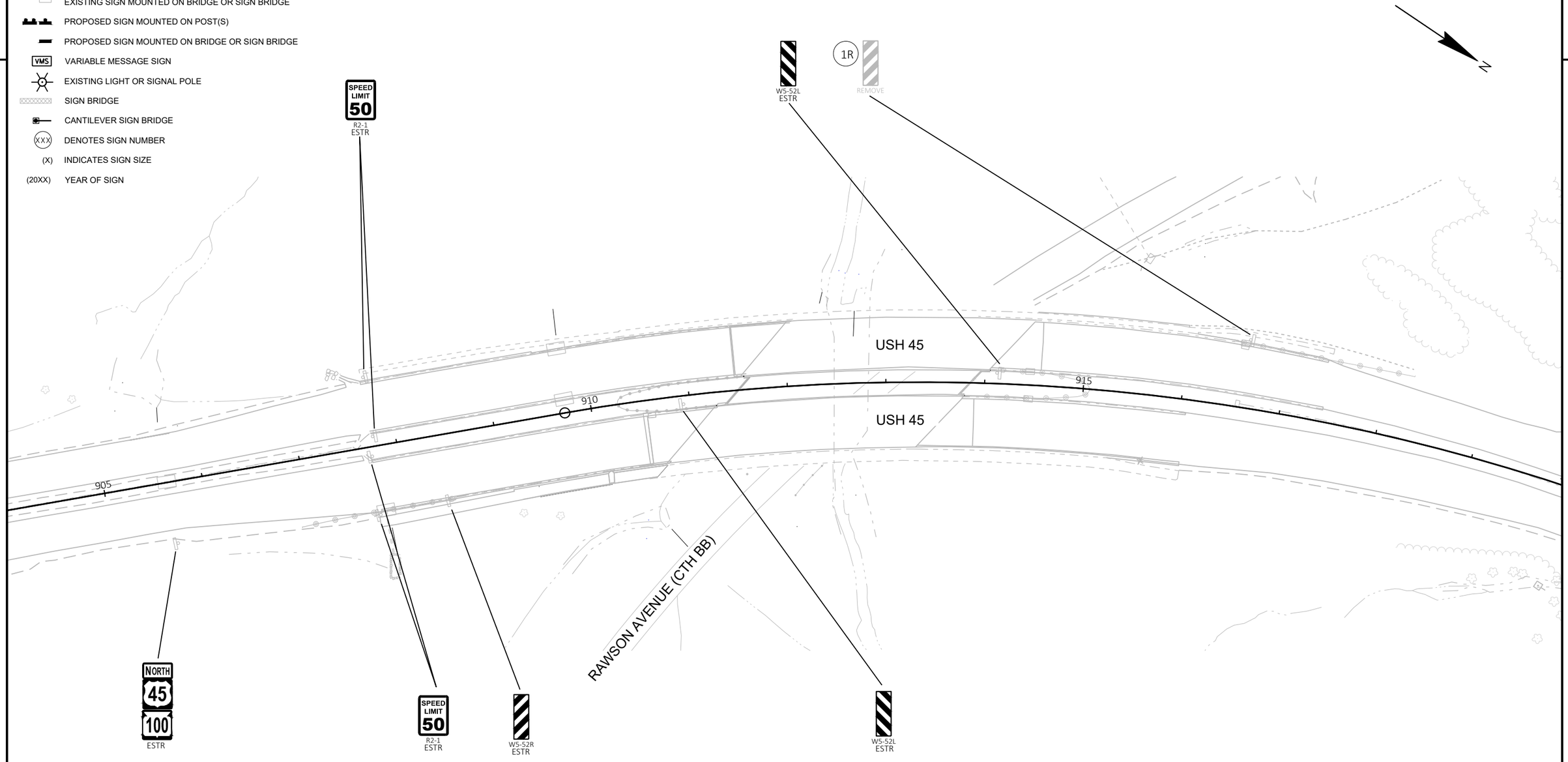
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 171	E

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



SHEET 2 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 172	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023101_PS_2040-14-70.DWG
LAYOUT NAME - 02

PLOT DATE : 3/24/2023 10:40 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

24R STOP REMOVE

6R 7R REMOVE

8R REMOVE

9R REMOVE

10R DO NOT ENTER REMOVE

COUNTY BB
Rawson Ave
7100 S
D1-1(MOD)
J3-1
MOVE
SEE PERMANENT SIGN PLAN

12R WRONG WAY REMOVE

13R

14R STOP REMOVE

PRIVATE NO PARKING SIGN TO BE MOVED BY OTHERS

OVERHEAD SIGN
(SEE STRUCTURE PLAN QTYS.
REMOVAL IN STRUCTURE PLANS)

15R NO PARKING ANY TIME REMOVE

16R RIGHT LANE MUST TURN RIGHT REMOVE

17R

18R ONLY REMOVE

19R STOP REMOVE

20R ONE WAY REMOVE

21R NO PARKING ANY TIME REMOVE

JCT
COUNTY BB
Rawson Ave
7100 S
D1-1(MOD)
J1-1
MOVE
SEE PERMANENT SIGN PLAN

22R ONE WAY REMOVE

23R NO PARKING ANY TIME REMOVE

2R SOUTH 45 100 REMOVE

3R SOUTH 45 100 REMOVE

4R STOP REMOVE

5R

NW RAWSON RAMP

246

248

920

326

328

330

USH 45

925

930

USH 45

352

354

356

358

29R REMOVE

STREET NAME SIGNS
MOVE BY CITY

30R STOP REMOVE

31R

PHYLLIS LN

302

304

32R 33R REMOVE

34R NO PARKING ANY TIME REMOVE

35R NO PARKING ANY TIME REMOVE

36R 37R SPEED LIMIT 40 REMOVE

38R 39R NO PARKING ANY TIME REMOVE

25R ONE WAY REMOVE

26R DO NOT ENTER REMOVE

SPEED LIMIT 50 REMOVE

WEIGHT LIMIT 3 TONS
R12-1
MOVE
SEE PERMANENT SIGN PLAN

NEIGHBORHOOD WATCH COMMUNITY
D12-50
MOVE
SEE PERMANENT SIGN PLAN

SPEED LIMIT 25
R2-1
ESTR

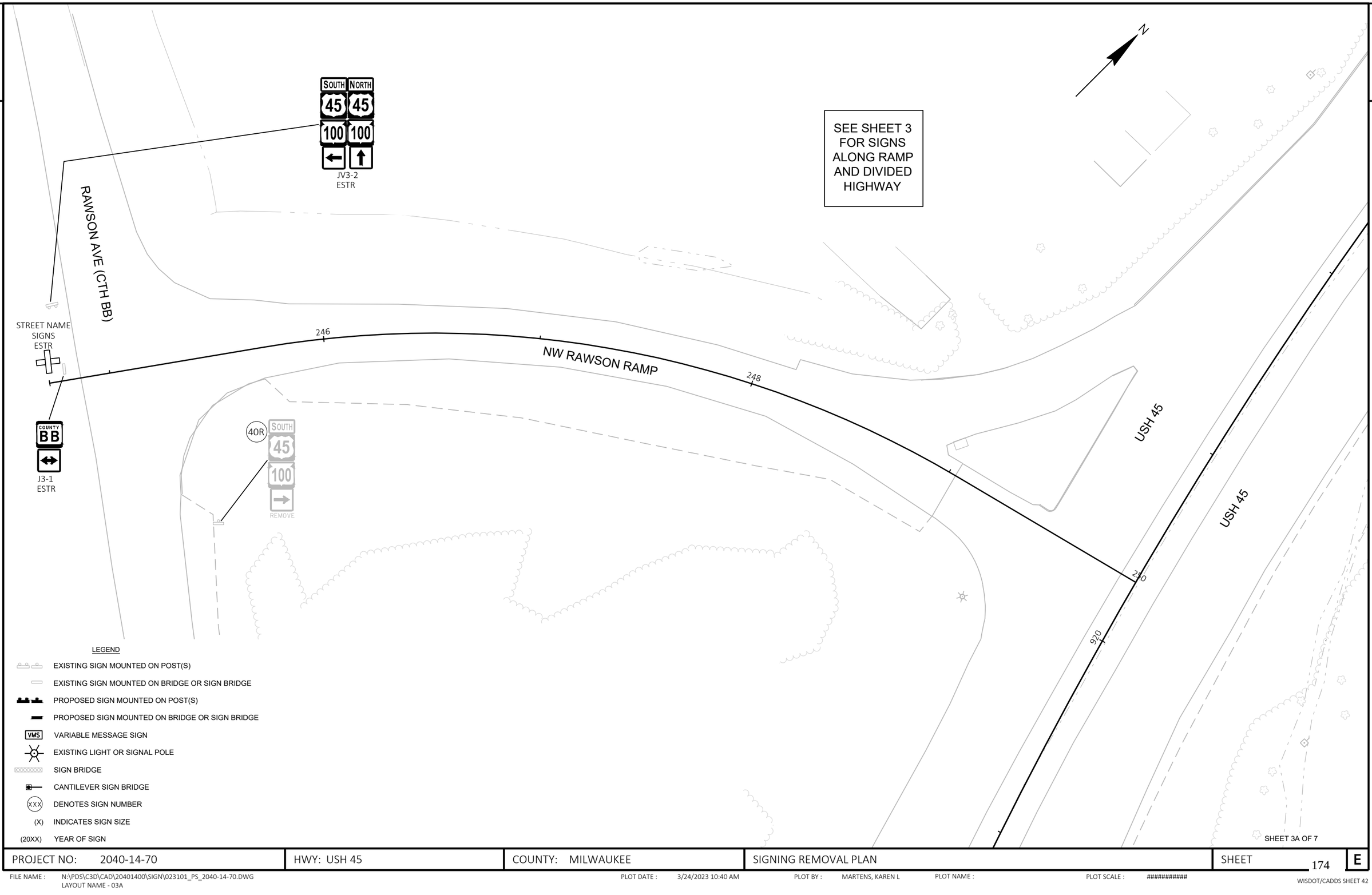
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 173	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023101_PS_2040-14-70.DWG
LAYOUT NAME - 03
PLOT DATE : 3/24/2023 10:40 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

SHEET 3A OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 174	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023101_PS_2040-14-70.DWG
LAYOUT NAME - 03A

PLOT DATE : 3/24/2023 10:40 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

2

PRIVATELY-OWNED SIGNS TO BE MOVED BY OWNER

44R 45R REMOVE

46R NO PARKING ANY TIME REMOVE

50R SPEED LIMIT 40 REMOVE

NO PARKING ANY TIME REMOVE

52R STOP REMOVE

WEIGHT LIMIT 3 TONS R12-1 MOVE SEE PERMANENT SIGN PLANS

NEIGHBORHOOD WATCH COMMUNITY D12-50 MOVE SEE PERMANENT SIGN PLANS

54R 55R REMOVE

57R NO PARKING ANY TIME REMOVE

63R 64R REMOVE

65R STOP REMOVE

WEIGHT LIMIT 3 TONS R12-1 MOVE SEE PERMANENT SIGN PLANS

STREET NAME SIGNS MOVE BY CITY

STREET NAME SIGNS MOVE BY CITY

44° CORTEZ RD

PRAIRIE WOOD LN

USH 45

935 940 945

USH 45

360

HERDA PL 402

STREET NAME SIGNS MOVE BY CITY

CORTEZ CIR 4

STREET NAME SIGNS MOVE BY CITY

CORTEZ CIR 502

STREET NAME SIGNS MOVE BY CITY

41R NO PARKING ANY TIME REMOVE

WEIGHT LIMIT 3 TONS R12-1 MOVE SEE PERMANENT SIGN PLANS

NEIGHBORHOOD WATCH COMMUNITY D12-50 MOVE SEE PERMANENT SIGN PLANS

42R 43R STOP REMOVE

47R 48R NO PARKING ANY TIME REMOVE

SPEED LIMIT 40 REMOVE

WEIGHT LIMIT 3 TONS R12-1 MOVE SEE PERMANENT SIGN PLANS

NO PARKING ANY TIME R7-1D MOVE SEE PERMANENT SIGN PLANS

NO PARKING HERE TO CORNER R7-51D MOVE SEE PERMANENT SIGN PLANS

PRIVATELY-OWNED SIGNS

53R STOP REMOVE

58R 59R NO PARKING ANY TIME REMOVE

60R BEGIN LEFT TURN LANE REMOVE

61R 62R REMOVE

66R DO NOT ENTER REMOVE

NO PARKING ANY TIME R7-1D MOVE SEE PERMANENT SIGN PLANS

WEIGHT LIMIT 3 TONS R12-1 MOVE SEE PERMANENT SIGN PLANS

68R STOP REMOVE

SHEET 4 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 175	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023101_PS_2040-14-70.DWG
LAYOUT NAME - 04

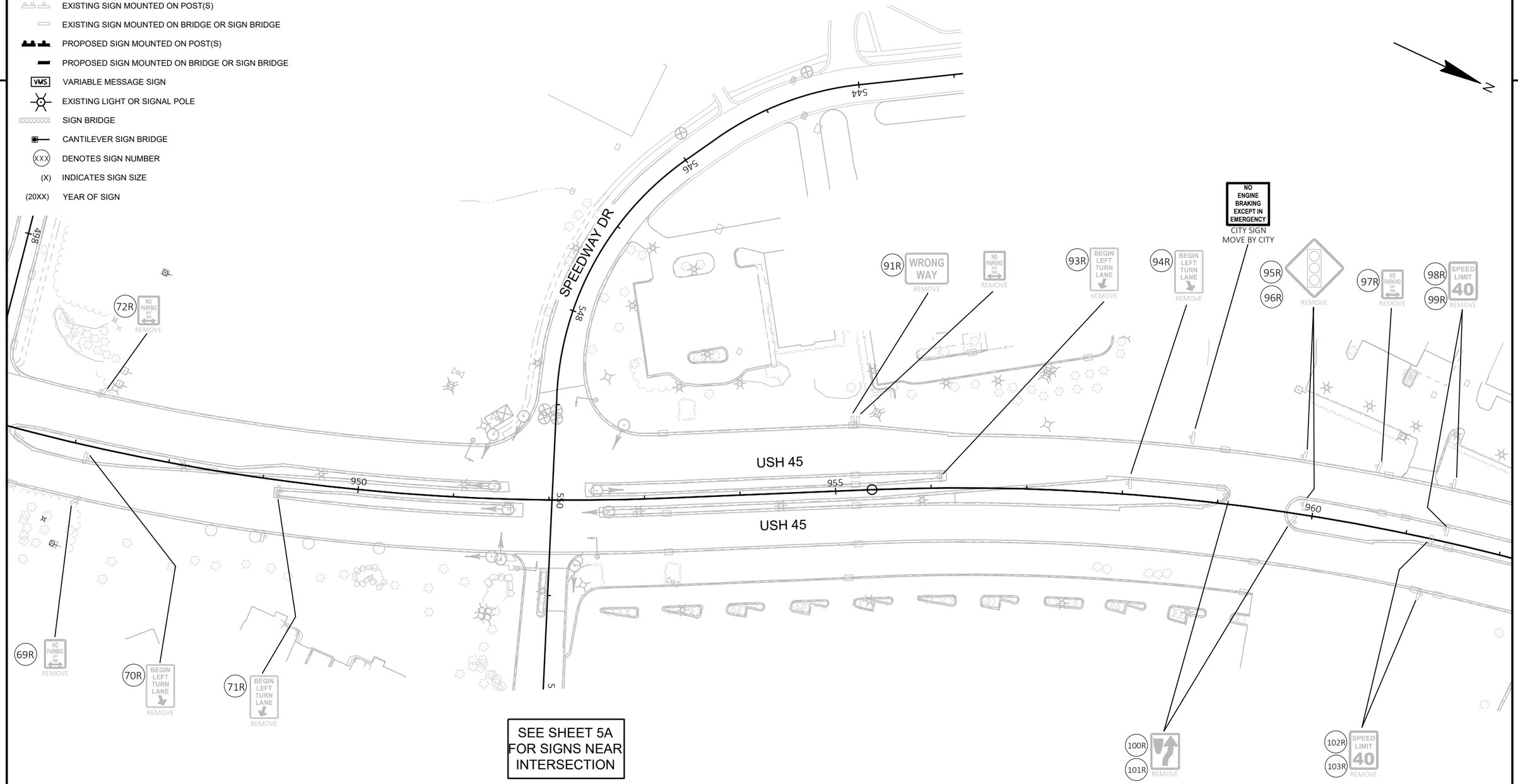
PLOT DATE : 3/24/2023 10:40 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



SHEET 5 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 176	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023101_PS_2040-14-70.DWG
LAYOUT NAME - 05

PLOT DATE : 3/24/2023 10:40 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

SPEEDWAY DR

548

NO PARKING ANY TIME
R7-1D
ESTR

NO THRU TRUCKS
R5-54
(MOD)
ESTR

81R DO NOT ENTER REMOVE

78R SPEED LIMIT 40 REMOVE

79R REMOVE

80R STOP REMOVE

STREET NAME SIGNS MOVE BY CITY

82R
83R
STOP
REMOVE

USH 45

950

530

955

USH 45

88R NO PARKING ANY TIME REMOVE

PRIVATELY-OWNED SIGNS TO REMAIN

75R
84R
STOP
REMOVE

73R WRONG WAY REMOVE

PRIVATELY-OWNED SIGNS TO BE MOVED BY OWNERS

74R DO NOT ENTER REMOVE

76R DO NOT ENTER REMOVE

77R REMOVE

86R DO NOT ENTER REMOVE

87R REMOVE

89R SPEED LIMIT 40 REMOVE

90R NO PARKING ANY TIME REMOVE

85R STOP REMOVE

SHEET 5A OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 177	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023101_PS_2040-14-70.DWG
LAYOUT NAME - 05A

PLOT DATE : 3/24/2023 10:40 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

108R STOP REMOVE

110R NO PARKING ANY TIME REMOVE

116R NO PARKING ANY TIME REMOVE

CITY SIGN
PARKING ORDINANCES
OWNED BY CITY
MOVE BY CITY

MOVE
SEE PERMANENT
SIGN PLAN
College Ave 6300 S
NEXT SIGNAL
D1-65

MOVE
SEE PERMANENT
SIGN PLAN
Franklin
POPULATION 36,816
I2-3

CITY SIGN
OWNED BY CITY
MOVE BY CITY

119R BEGIN LEFT TURN LANE REMOVE

120R ONE WAY
121R REMOVE

124R SPEED LIMIT 40 REMOVE

SPEED LIMIT 40
R2-1
ESTR

W College Ave
ESTR

LEFT TURN YIELD ON FLASHING YELLOW ARROW
R10-50L
ESTR

W College Ave
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

STOP
R1-1F
ESTR

DO NOT ENTER
R5-1
ESTR

STOP
R1-1F
ESTR

STREET NAME
SIGNS
MOVE BY CITY

ONE WAY
R6-2L
ESTR

R3-4
8PM - 5AM
ESTR

CANOPY

R3-4
8PM - 5AM
ESTR

STOP
R1-1F
ESTR

USH 45

965

970

975

USH 45

WHITNALL EDGE RD

STREET NAME
SIGNS
MOVE BY CITY

VENTURE DR

552

SEPV

BLDG

BLDG

DO NOT ENTER
R5-1
ESTR

CANOPY

COLLEGE AVENUE

104R NO PARKING ANY TIME REMOVE

105R

106R REMOVE

NO PARKING
MOVE
SEE PERMANENT
SIGN PLAN

WEIGHT LIMIT 3 TONS
R12-1
MOVE
SEE PERMANENT
SIGN PLAN

NEIGHBORHOOD WATCH COMMUNITY
D12-50
MOVE
SEE PERMANENT
SIGN PLAN

NO PARKING
MOVE
SEE PERMANENT
SIGN PLAN

107R STOP REMOVE

109R NO PARKING ANY TIME REMOVE

NEW TRAFFIC PATTERN AHEAD
REMOVE

125R 126R

111R NO PARKING ANY TIME REMOVE

112R NO OUTLET REMOVE

113R STOP REMOVE

114R

115R REMOVE

117R

118R REMOVE

122R BEGIN LEFT TURN LANE REMOVE

123R WRONG WAY REMOVE

NO PARKING ANY TIME
R7-1D
ESTR

GOLF COURSE
ESTR

STOP
R1-1F
ESTR

LEFT TURN YIELD ON FLASHING YELLOW ARROW
R10-50L
ESTR

R4-7
ESTR

STOP
R1-1F
ESTR

ONE WAY
R6-2L
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

CITY SIGN
PARKING ORDINANCES
OWNED BY CITY
ESTR

SHEET 6 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 178	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023101_PS_2040-14-70.DWG
LAYOUT NAME - 06

PLOT DATE : 3/24/2023 10:40 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

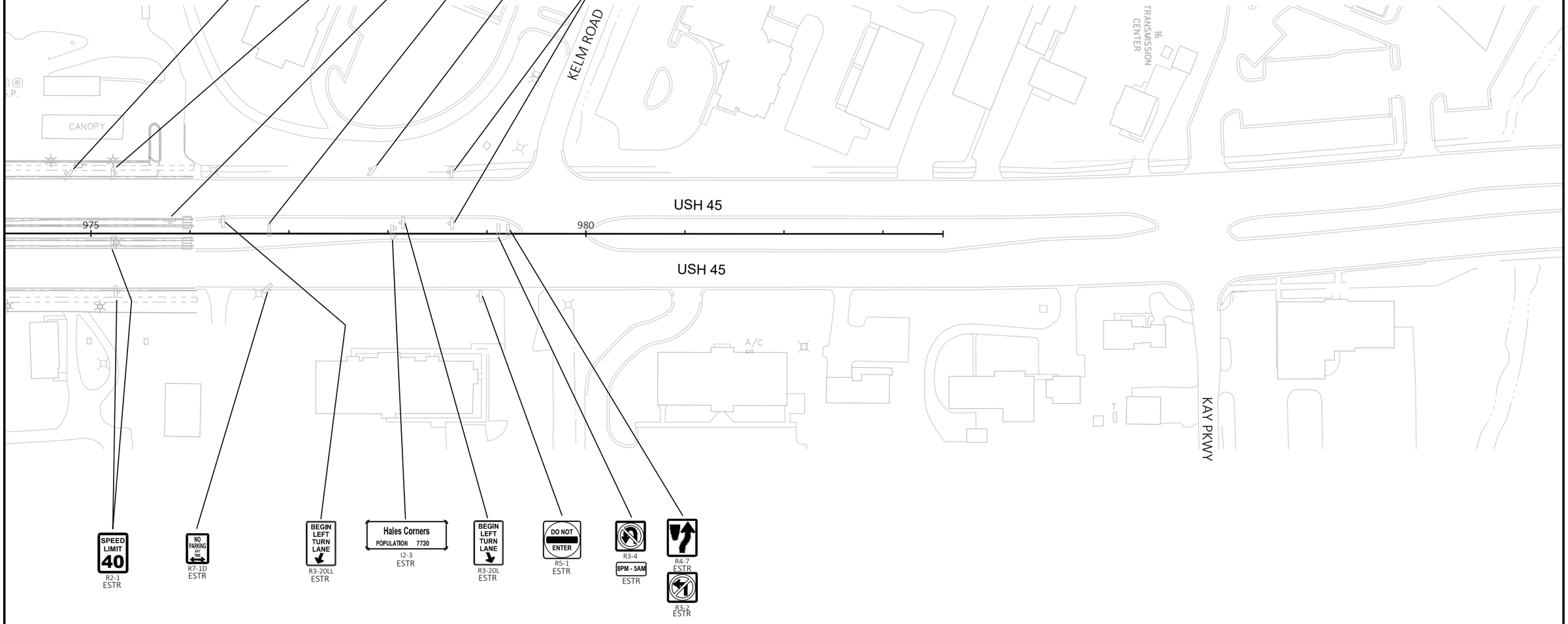
2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 7 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 179	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023101_PS_2040-14-70.DWG
LAYOUT NAME - 07

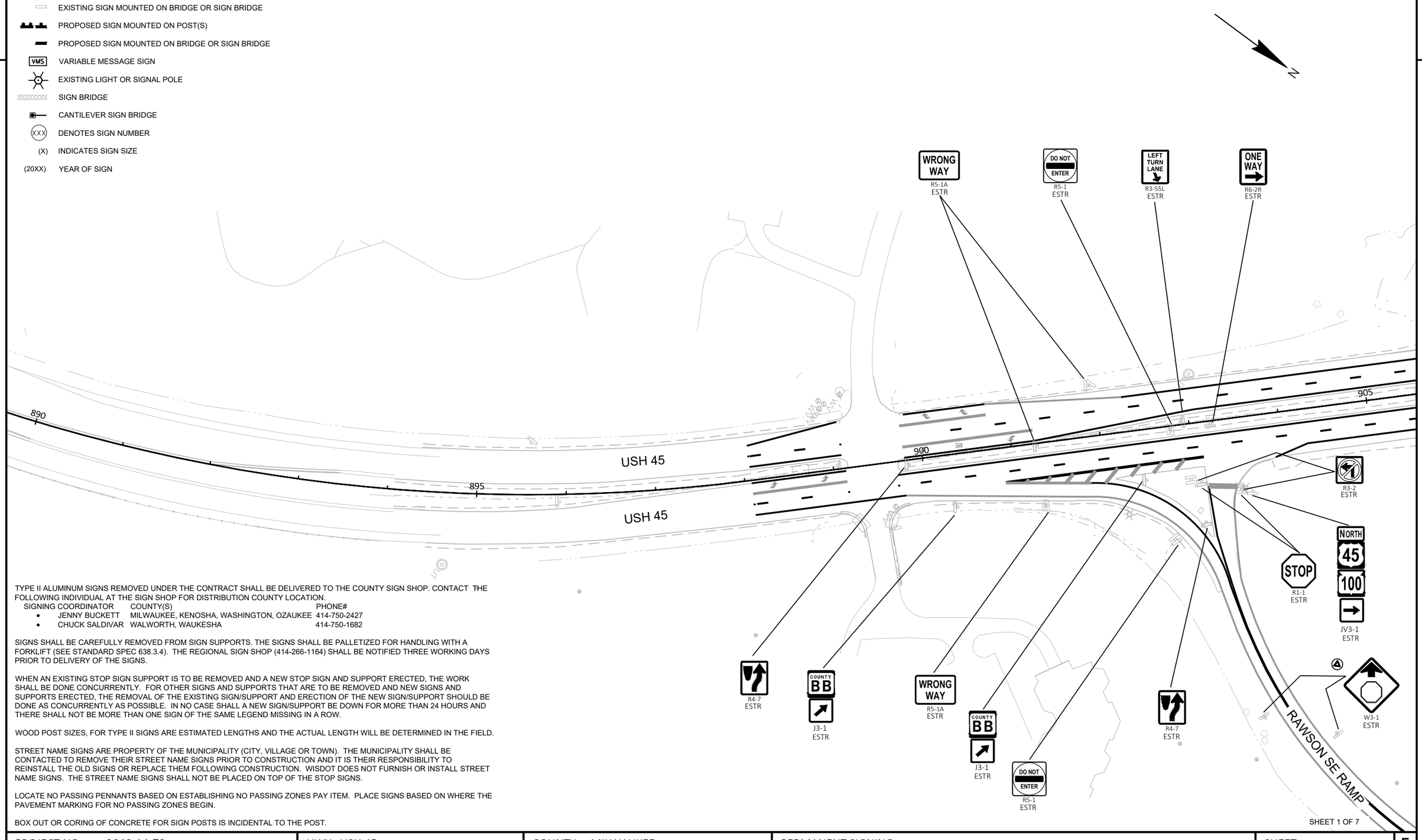
PLOT DATE : 3/24/2023 10:40 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTY(S)	PHONE#
• JENNY BUCKETT	MILWAUKEE, KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
• CHUCK SALDIVAR	WALWORTH, WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1164) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POST SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

BOX OUT OR CORING OF CONCRETE FOR SIGN POSTS IS INCIDENTAL TO THE POST.

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 180	E

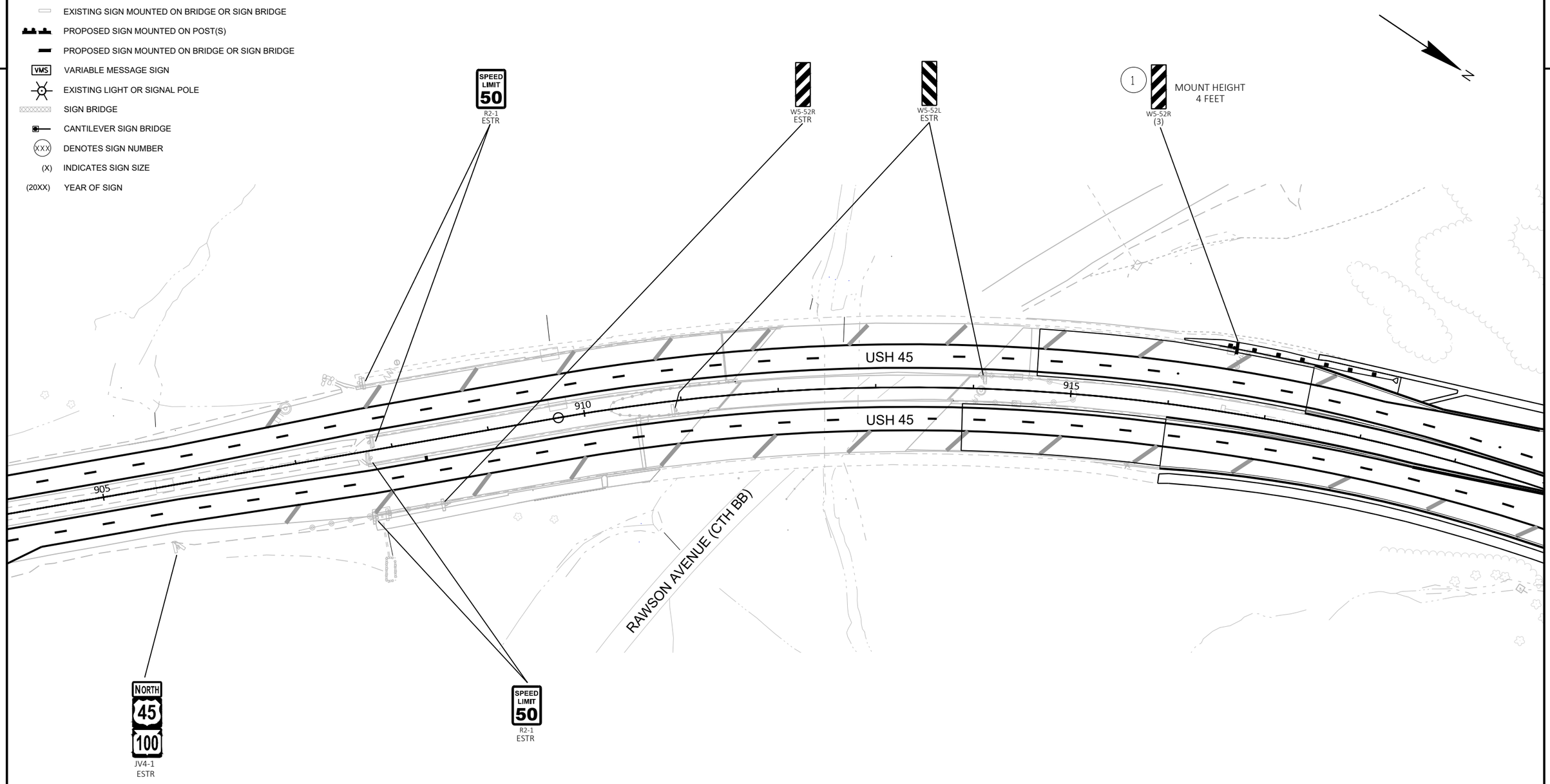
FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023201_PS_2040-14-70.DWG
LAYOUT NAME - P01
PLOT DATE : 3/3/2023 1:27 PM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



SHEET 2 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 181	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023201_PS_2040-14-70.DWG
LAYOUT NAME - P02

PLOT DATE : 3/3/2023 1:27 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MOUNT ON MAST ARM OF OVERHEAD SIGN STRUCTURE S-40-3098 AT STA. 928+22

MOUNT HEIGHT 2 FEET

PRIVATE NO PARKING SIGN TO BE MOVED BY OWNER

STREET NAME SIGNS MOVE BY CITY

NW RAWSON RAMP

USH 45

PHYLLIS LN

1		
2	SOUTH 45 100	JV4-1 (3)
3	SOUTH 45 100	JV3-1 (2S)
4	STOP	R1-1 (3)
5	STOP	R1-1 (3)
6	STOP	R1-1 (2S)
7		W3-1 (2S)
8		W3-1 (2S)
9		R4-7 (2S)
10		W5-54 (2S)
11		R3-2 (2S)
12	DO NOT ENTER	R5-1 (3)
13		R9-3A (2S)
14	USE CROSSWALK	R9-3BL (2S)
15		W11-2 (3)
16		W16-7R (3)
17	NO PARKING ANY TIME	R7-1D (3)
18	NO PARKING ANY TIME	R7-1D (3)
19	STOP	R1-1 (3)
20	BEGIN RIGHT TURN LANE YIELD TO BIKES	R4-4 (2M)
21	SPEED LIMIT 50	R2-1 (3)
22	SPEED LIMIT 50	R2-1 (3)
23	RIGHT LANE MUST TURN RIGHT	R3-7R (3)
24	STOP	R1-1 (3)
25	ONE WAY	R6-2R (3)
26	DO NOT ENTER	R5-1 (3)
27	DO NOT ENTER	R5-1 (3)
28	DO NOT ENTER	R5-1 (3)
29		W1-7 (2S)
30	BIKE LANE	R3-17 (2M)
31	AHEAD	R3-17AP (2M)
32	WRONG WAY	R5-1A (3)
33	WRONG WAY	R5-1A (3)
34	WEIGHT LIMIT 3 TONS	R12-1 MOVE
35	NEIGHBORHOOD WATCH COMMUNITY	D12-50 MOVE
36	TO Rawson Ave ONLY	D16-1
37	NO PARKING ANY TIME	R7-1D (3)
38	COUNTY BB	
39	Rawson Ave 7100 S	D1-1(MOD) J3-1 MOVE
40	JCT COUNTY BB	
41	Rawson Ave 7100 S	D1-1(MOD) J1-1 MOVE
42	NO PARKING ANY TIME	R7-1D (3)
43	NO PARKING ANY TIME	R7-1D (3)
44	STOP	R1-1 (3)
45	STOP	R1-1 (3)
46	DIVIDED HIGHWAY	R6-3 (2S)
48	NO PARKING ANY TIME	R7-1L (3)
49		R4-7 (3)
50		R4-7 (3)
51	NO PARKING ANY TIME	R7-1D (3)
52	NO PARKING ANY TIME	R7-1D (3)
53	ONE WAY	R6-2R (3)
54	SPEED LIMIT 40	R2-1 (3)
55	SPEED LIMIT 40	R2-1 (3)
56	ONE WAY	R6-2R (3)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

SHEET 3 OF 7

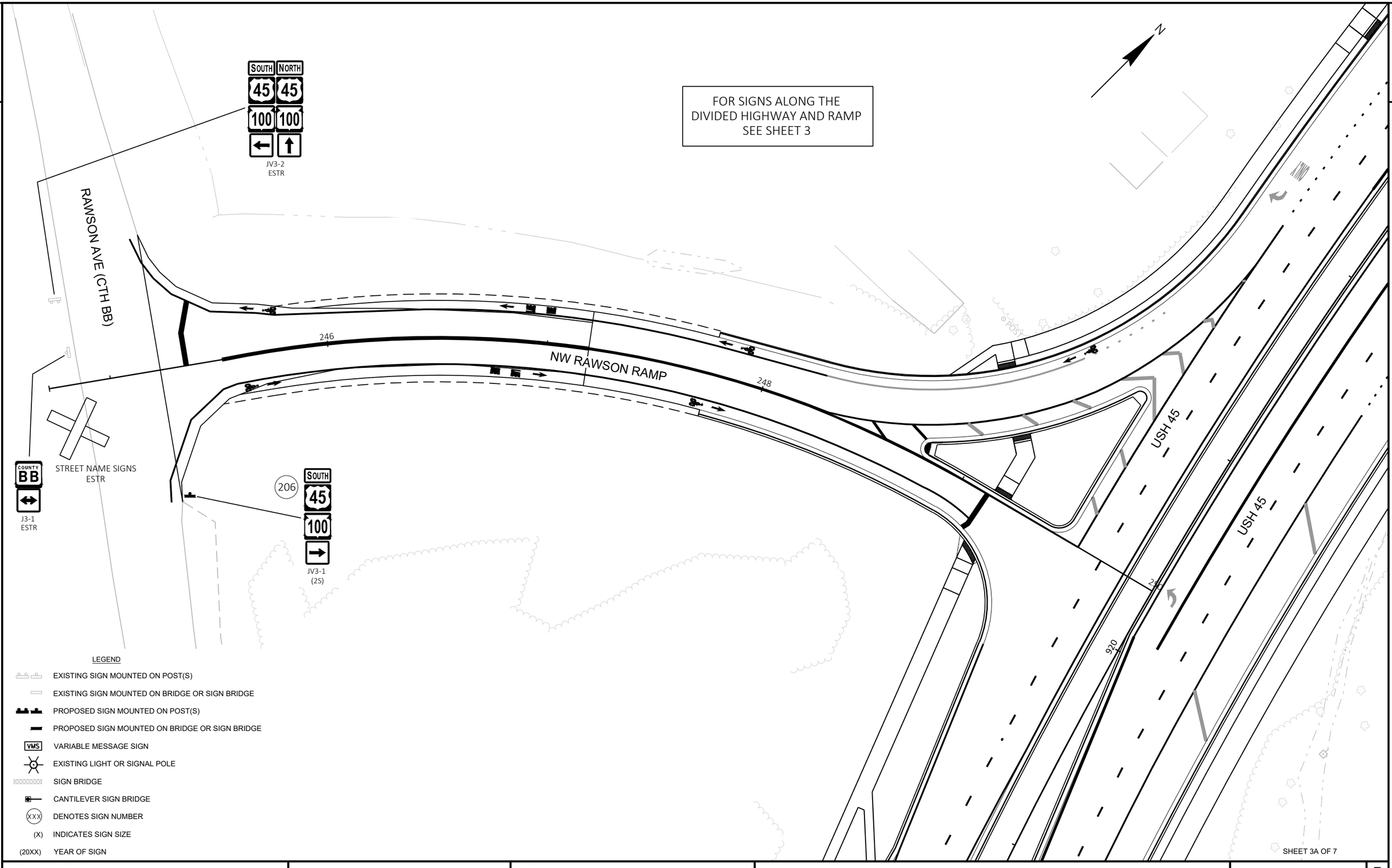
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 182	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023201_PS_2040-14-70.DWG
LAYOUT NAME - P03

PLOT DATE : 3/3/2023 1:27 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 183	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

2

2

STREET NAME SIGNS MOVE BY CITY

PRIVATE SIGN MOVE BY OWNER

103 ONE WAY R6-2L (3)

57 R4-7 (2M)

108

58 DO NOT ENTER R5-1 (2M)

59 NO PARKING ANY TIME R7-1D (2M)

60

61 WRONG WAY R5-1A (2M)

62 SPEED LIMIT 40 R2-1 (2M)

63 ONE WAY R6-1L (2M)

64 STOP R1-1 (2M)

65 DIVIDED HIGHWAY R6-3 (2S)

85 WEIGHT LIMIT 3 TONS R12-1 MOVE

86 NEIGHBORHOOD WATCH COMMUNITY D12-50 MOVE

89 DO NOT ENTER R5-1 (2M)

87 R4-7 (2M)

88

90 BEGIN LEFT TURN LANE R3-20L (2M)

91 WRONG WAY R5-1A (2M)

92 NO PARKING ANY TIME R7-1D (2M)

93 STOP R1-1 (2M)

94 DIVIDED HIGHWAY R6-3 (2S)

95 ONE WAY R6-1L (2M)

99 WEIGHT LIMIT 3 TONS R12-1 MOVE

96 R4-7 (2M)

97

98 DO NOT ENTER R5-1 (2M)

CORTEZ RD

PRAIRIE WOOD LN

STREET NAME SIGNS MOVE BY CITY

USH 45

935

940

USH 45

360

HERDA PL

402

CORTEZ CIR

410

CORTEZ CIR

502

STREET NAME SIGNS MOVE BY CITY

75 SPEED LIMIT 40 R2-1 (2M)

PRIVATE SIGN MOVE BY OWNER

STREET NAME SIGNS MOVE BY CITY

STREET NAME SIGNS MOVE BY CITY

112 ONE WAY R6-1L (2M)

69 NO PARKING ANY TIME R7-1D (3)

66 DO NOT ENTER R5-1 (3)

67 WEIGHT LIMIT 3 TONS R12-1 MOVE

68 NEIGHBORHOOD WATCH COMMUNITY D12-50 MOVE

80 STOP R1-1 (3)

70 STOP R1-1 (2M)

71 DIVIDED HIGHWAY R6-3 (2S)

74 ONE WAY R6-1L (2M)

72 NO PARKING ANY TIME R7-1D (2M)

73

76 WRONG WAY R5-1A (2M)

77 DO NOT ENTER R5-1 (2M)

78 WEIGHT LIMIT 3 TONS R12-1 MOVE

79 NO PARKING ANY TIME R7-1D MOVE

84 NO PARKING HERE TO CORNER R7-51L MOVE

81 ONE WAY R6-1L (2M)

82 STOP R1-1 (2M)

83 DIVIDED HIGHWAY R6-3 (2S)

100 NO PARKING ANY TIME R7-1D (2M)

101

105 WRONG WAY R5-1A (2M)

102 BEGIN LEFT TURN LANE R3-20LL (2M)

104 W3-3 (2M)

106 DO NOT ENTER R5-1 (2M)

109 NO PARKING ANY TIME R7-1D MOVE

107 WEIGHT LIMIT 3 TONS R12-1 MOVE

110 STOP R1-1 (2M)

111 DIVIDED HIGHWAY R6-3 (2S)

SHEET 4 OF 7

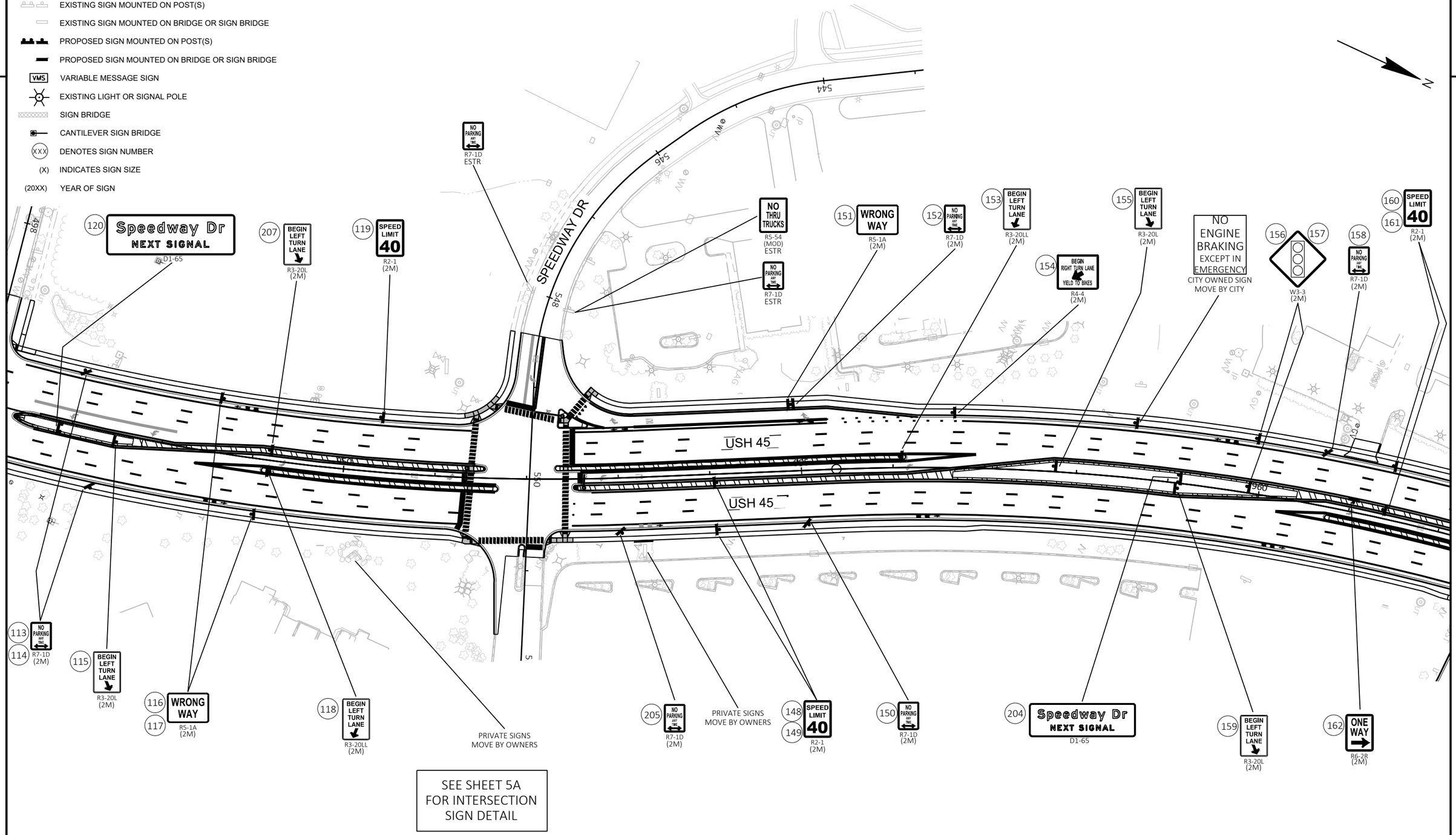
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 184	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023201_PS_2040-14-70.DWG
LAYOUT NAME - P04
PLOT DATE : 3/3/2023 1:27 PM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



SEE SHEET 5A FOR INTERSECTION SIGN DETAIL

SHEET 5 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 185	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023201_PS_2040-14-70.DWG
LAYOUT NAME - P05

PLOT DATE : 3/3/2023 1:28 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

SPEEDWAY DR

548

USH 45

950

955

540

30'

45'

40'

15'

MOUNT ON SIGNAL POLE
131 DO NOT ENTER R5-1 (2M)

MOUNT ON SIGNAL POLE
132 STOP R1-1F (2M)

133 YIELD R1-2 (2M)
MOUNT ON LIGHT POLE

MOUNT HEIGHT 2 FEET
134 W12-1D (2M)

135 STOP R1-1F (2M)

136 DO NOT ENTER R5-1 (2M)

MOUNT ON MAST ARM
122 W Speedway Dr

MOUNT R6-3 ABOVE R1-1F ON SIGNAL POLE
130 DIVIDED HIGHWAY R6-3 (2S)

123 STOP R1-1F (2M)

MOUNT ON SIGNAL POLE
147 R4-7 (2M)

MOUNT ON SIGNAL POLE
121 ONE WAY R6-2L (2M)

MOUNT ON SIGNAL POLE
137 DO NOT ENTER R5-1 (2M)

138 R4-7 (2M)

MOUNT ON SIGNAL POLE
124 STOP R1-1F (2M)

125 STOP R1-1F (2M)

126 STOP R1-1F (2M)
MOUNT ON SIGNAL POLE

127 DO NOT ENTER R5-1 (2M)
MOUNT ON SIGNAL POLE

128 ONE WAY R6-2L (2M)
MOUNT ON SIGNAL POLE

129 DO NOT ENTER R5-1 (2M)

MOUNT R6-3 ABOVE R1-1F ON MEDIAN POST
144 DIVIDED HIGHWAY R6-3 (2S)

146 STOP R1-1F (2M)

MOUNT R6-3 ABOVE R1-1F ON SIGNAL POLE
143 DIVIDED HIGHWAY R6-3 (2S)

145 STOP R1-1F (2M)

140 R4-7 (2M)
MOUNT ON SIGNAL POLE

141 STOP R1-1F (2M)
MOUNT ON SIGNAL POLE

139 ONE WAY R6-2L (2M)
MOUNT ON SIGNAL POLE

142 W Speedway Dr
MOUNT ON MAST ARM

SHEET 5A OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 186	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023201_PS_2040-14-70.DWG
LAYOUT NAME - P05A

PLOT DATE : 3/3/2023 1:28 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

USH 45

USH 45

WHITNALL EDGE RD

VENTURE DR

COLLEGE AVENUE

W College Ave ESTR

W College Ave ESTR

CITY PARKING ORDINANCES SIGN MOVE BY CITY

STREET NAME SIGNS MOVE BY CITY

STREET NAME SIGNS MOVE BY CITY

CITY OWNED SIGN MOVE BY CITY

CITY PARKING ORDINANCES SIGN ESTR

CANOPY

CANOPY

975

652

163 NO PARKING ANY TIME — R7-1D (2M)

169 STOP — R1-1 (2M)

170 DO NOT ENTER — R5-1 (2M)

171 BEGIN LEFT TURN LANE — R3-20LL (2M)

175 BEGIN LEFT TURN LANE — R3-20L (2M)

183 DO NOT ENTER — R5-1 (2M)

187 NO PARKING ANY TIME — R7-1D (2M)

189 W3-3 (2M)

192 ONE WAY — R6-2R (2M)

193

194

195 WRONG WAY — R5-1A (2M)

196 SPEED LIMIT 40 — R2-1 (2M)

SPEED LIMIT 40 — R2-1 ESTR

200 BEGIN LEFT TURN LANE — R3-20L (2M)

NO PARKING ANY TIME — R7-1D ESTR

ONE WAY — R6-2L ESTR

STOP — R1-1F ESTR

LEFT TURN YIELD ON FLASHING YELLOW ARROW — R10-50L ESTR

DO NOT ENTER — R5-1 ESTR

STOP — R1-1F ESTR

176 NO PARKING ANY TIME

177 R7-1D (2M)

166 208 — R4-7 (2M)

167 NO PARKING ANY TIME — R7-1D (2M)

168 DO NOT ENTER — R5-1 (2M)

WEIGHT LIMIT 3 TONS — R12-1 MOVE

201

NEIGHBORHOOD WATCH COMMUNITY — D12-50 MOVE

209

NO PARKING — R7-1D MOVE

202

203

STOP — R1-1 (2M)

172

DIVIDED HIGHWAY — R6-3 (2S)

173

174 NO PARKING ANY TIME — R7-1D (2M)

180 DO NOT ENTER — R5-1 (2M)

181 182 — R4-7 (2M)

184 NO OUTLET — W14-2 (2S)

STOP — R1-1 (2M) 185

DIVIDED HIGHWAY — R6-3 (2S) 186

188 W3-3 (2M)

197 BEGIN LEFT TURN LANE — R3-20L (2M)

Franklin POPULATION 36,816 — I2-3 MOVE 190

College Ave 6300 S NEXT SIGNAL — D1-65 MOVE 191

NO PARKING ANY TIME — R7-1D ESTR

198 BEGIN LEFT TURN LANE — R3-20LL (2M)

199 WRONG WAY — R5-1A (2M)

GOLF COURSE — MOD ESTR

R4-7 ESTR

STOP — R1-1F ESTR

R3-4 8PM - 5AM ESTR

STOP — R1-1F ESTR

DO NOT ENTER — R5-1 ESTR

NO PARKING ANY TIME — R7-1D ESTR

R4-7 ESTR

ONE WAY — R6-2L ESTR

164 WRONG WAY — R5-1A (2M)

165 BEGIN LEFT TURN LANE — R3-20LL (2M)

SHEET 6 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 187	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023201_PS_2040-14-70.DWG
LAYOUT NAME - P06

PLOT DATE : 3/3/2023 1:28 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

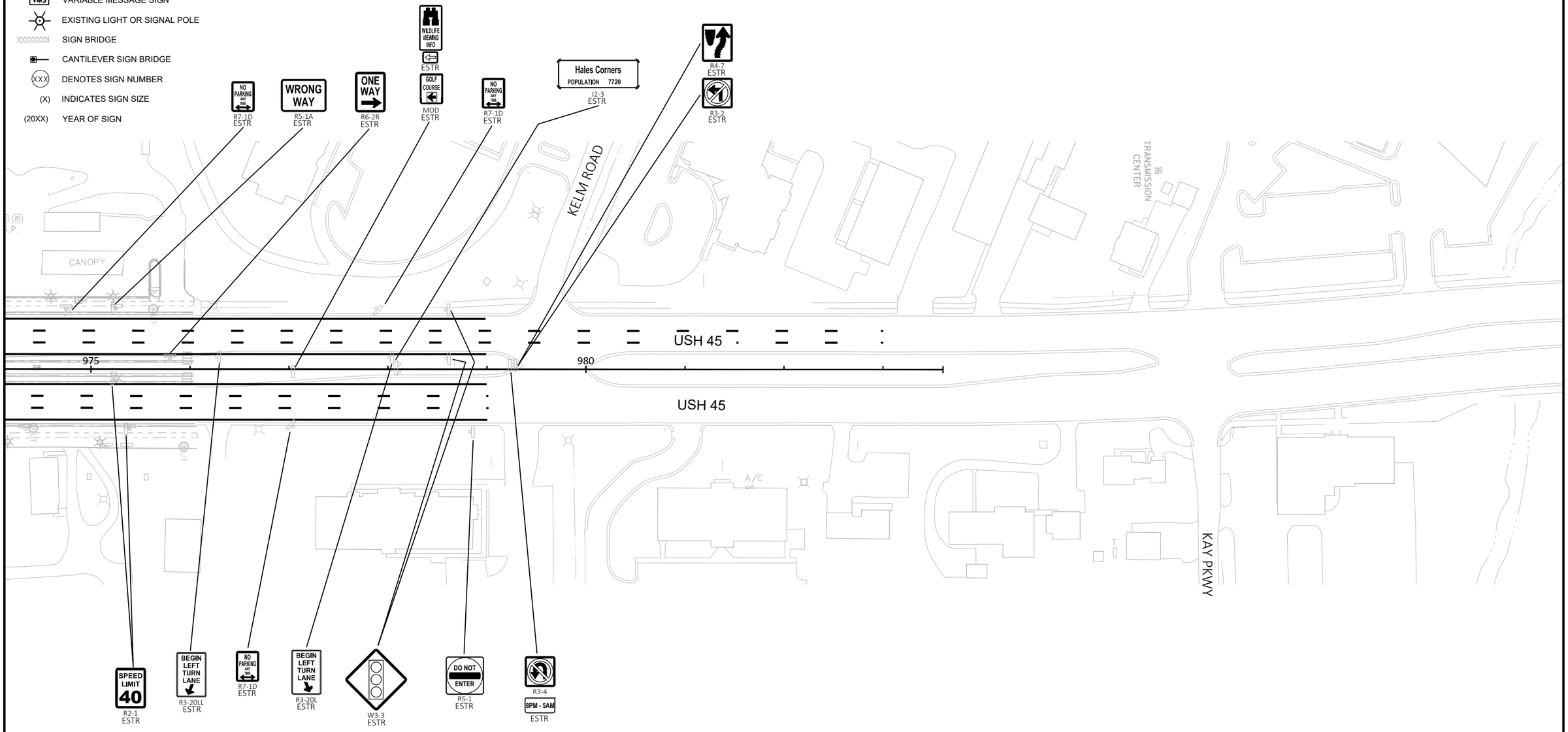
2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 7 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 188	E

FILE NAME : N:\PDS\C3D\CAD\20401400\SIGN\023201_PS_2040-14-70.DWG
LAYOUT NAME - P07

PLOT DATE : 3/3/2023 1:28 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

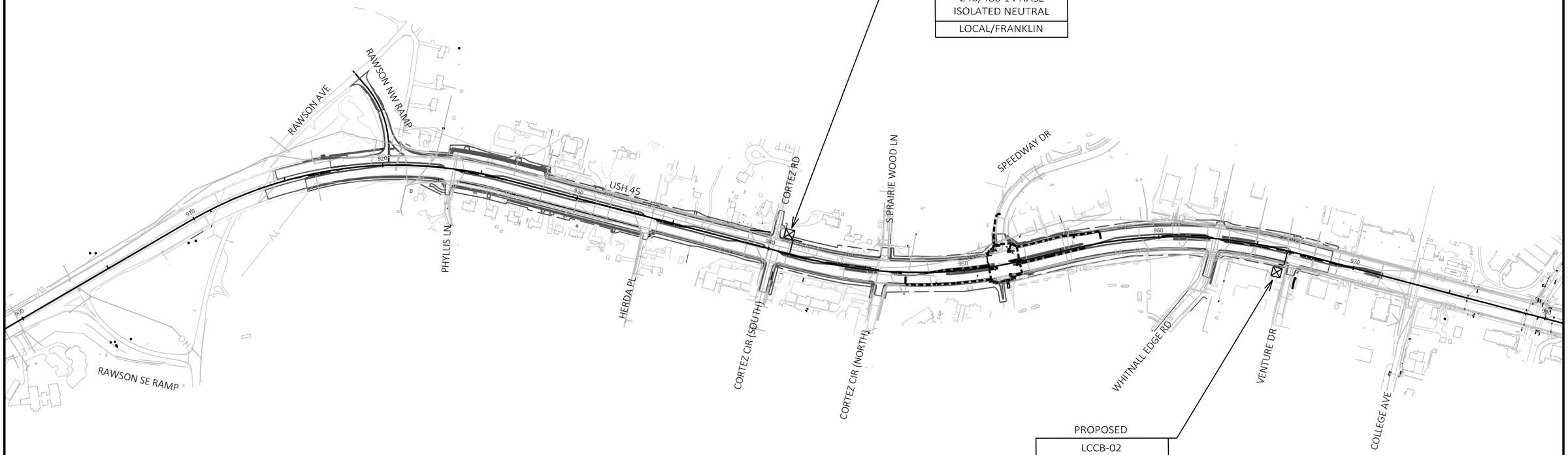
WISDOT/CADDS SHEET 42

2

N

PROPOSED

LCCB-01	
A C	RED
B D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30 A
240/480 1 PHASE ISOLATED NEUTRAL	
LOCAL/FRANKLIN	

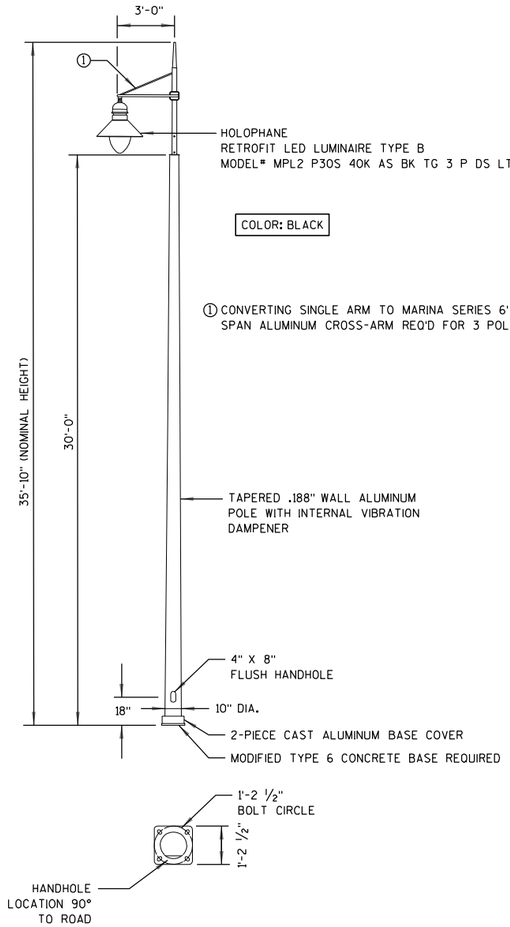


PROPOSED

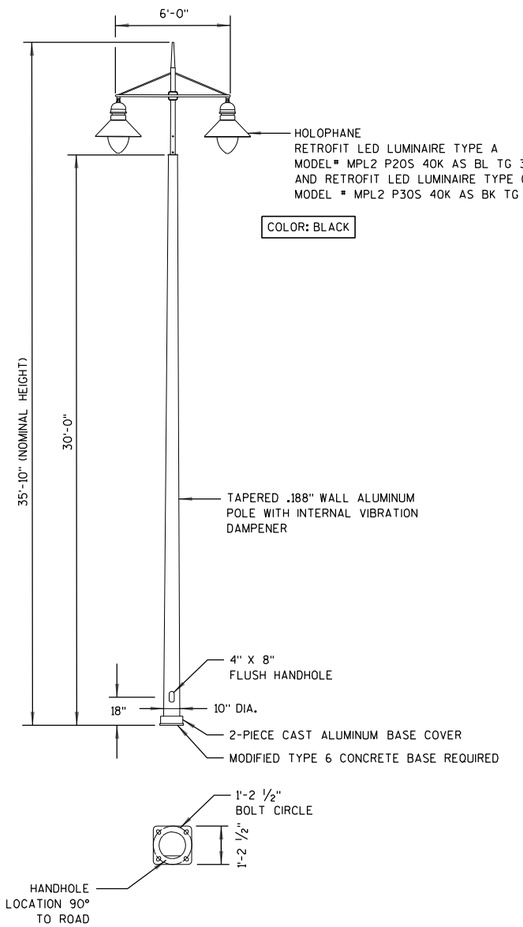
LCCB-02	
A C	RED
B D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30 A
240/480 1 PHASE ISOLATED NEUTRAL	
LOCAL/FRANKLIN	

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROJECT OVERVIEW LIGHTING PLAN	SHEET 189	E

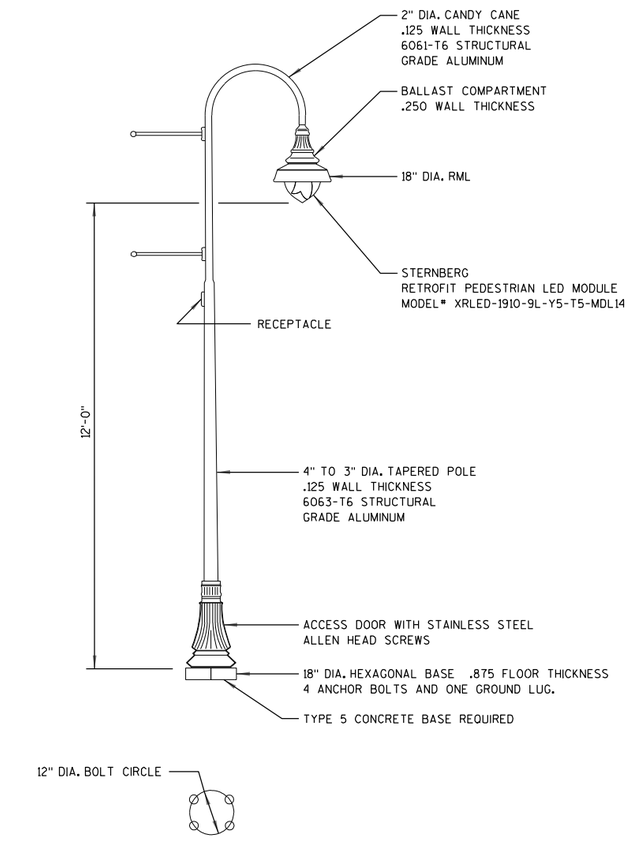
2



SINGLE ARM DECORATIVE LIGHTING UNIT
NTS



TWIN ARM DECORATIVE LIGHTING UNIT
NTS



PEDESTRIAN LIGHT POLE
NTS

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - POLE DETAILS	SHEET 190	E

2

2

NO WORK ON THIS SHEET

USH 45

USH 45

MATCHLINE STA 937+43

LEGEND

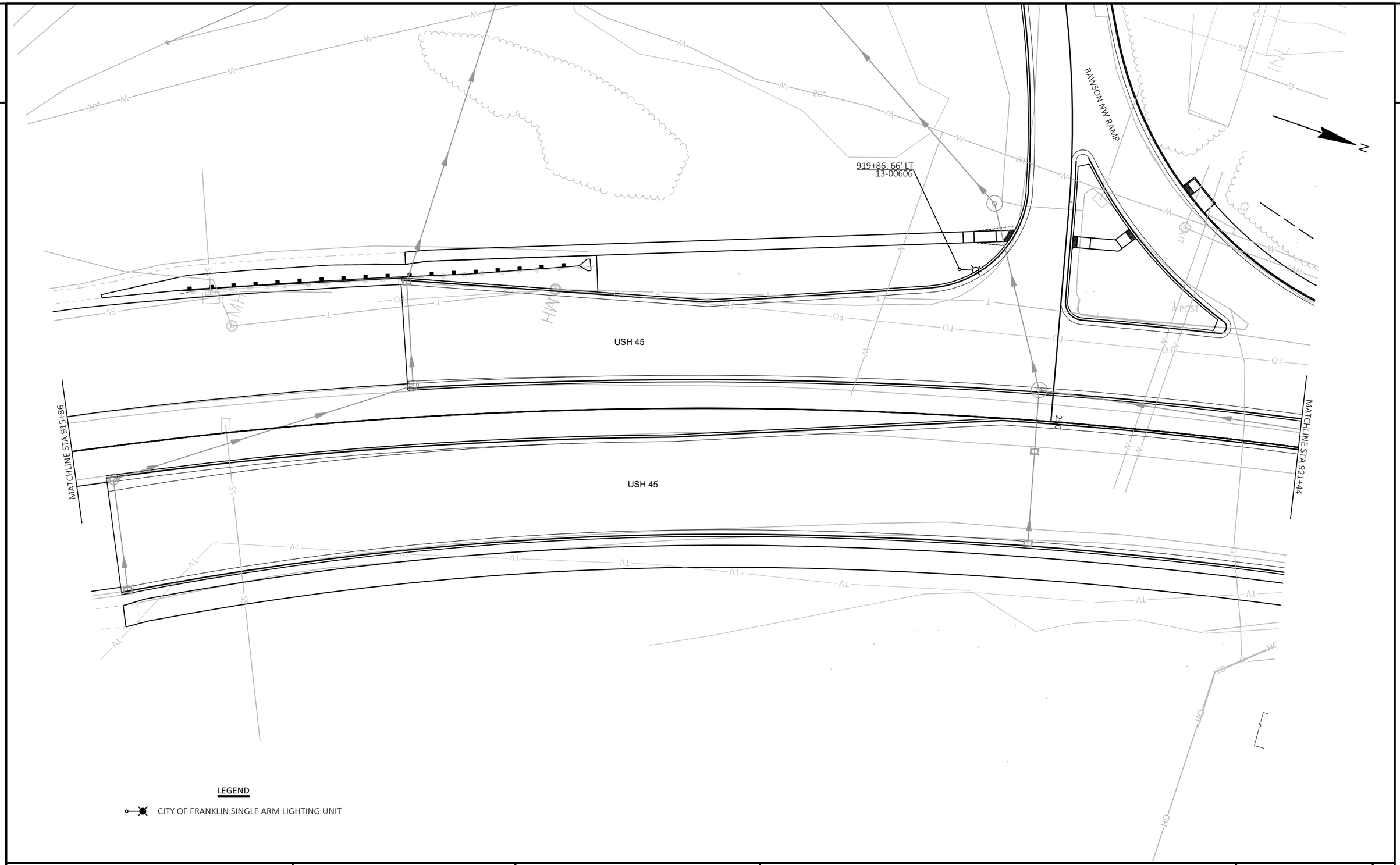
CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 191	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 01

PLOT DATE : 2/13/2023 8:21 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 192	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 02

PLOT DATE : 2/13/2023 8:21 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

USH 45

MATCHLINE STA 921+44

MATCHLINE STA 926+44

USH 45

326

352

PHYLLIS LN

300+91, 25' LT
13-00611

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 193	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 03

PLOT DATE : 2/13/2023 8:21 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

NO WORK ON THIS SHEET

N

328

USH 45

MATCHLINE STA 926+44

MATCHLINE STA 931+80

USH 45

GOLF AV

354

356

358

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 194	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 04

PLOT DATE : 2/13/2023 8:21 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

USH 45

MATCHLINE STA 931+80

MATCHLINE STA 937+43

USH 45

360

400+72, 28' LT
64-3809

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 195	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 05

PLOT DATE : 2/13/2023 8:21 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

939+86, 75' LT
12-07089

CORTEZ RD

USH 45

MATCHLINE STA 937+43

MATCHLINE STA 943+24

450+72, 22' LT
80-02790

CORTEZ CIR (SOUTH)

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 196	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 06

PLOT DATE : 2/13/2023 8:21 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

498

499+17, 26' RT
08-L-13475

S PRARIE WOOD LN

USH 45

MATCHLINE STA 943+24

MATCHLINE STA 948+95

USH 45

500+80, 26' LT
76-1827

CORTEZ CIR (NORTH)

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 197	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 07

PLOT DATE : 2/13/2023 8:21 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

NO WORK ON THIS SHEET

USH 45

MATCHLINE STA 948+95

MATCHLINE STA 954+89

USH 45

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 198	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 08

PLOT DATE : 2/13/2023 8:21 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

NO WORK ON THIS SHEET

USH 45

USH 45

MATCHLINE STA 954+89

MATCHLINE STA 960+80

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 199	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 09

PLOT DATE : 2/13/2023 8:22 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

USH 45

MATCHLINE STA 960+80

MATCHLINE STA 965+99

USH 45

SIGN

600+75, 25' LT
80-05872

WHITNALL EDGE RD

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 200	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 10

PLOT DATE : 2/13/2023 8:22 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

USH 45

USH 45

MATCHLINE STA 965+99

MATCHLINE STA 971+41

969+46, 3' RT
SALVAGE
LIGHTING UNIT
SEE NOTE 1

971+19, 12' RT
SALVAGE
LIGHTING UNIT
SEE NOTE 1

967+39, 69' RT
87-08031

VENTURE DR

SIGN

CANOPY

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

TWIN LUMINAIRE, INTERSECTION TRAFFIC LIGHTING POLE, TRANSFORMER BASE

NOTE:
1. PULL BACK THE EXISTING WIRE TO NEAREST PULL BOX UNTIL RE-INSTALLATION OF LIGHTING UNIT. EXISTING CONDUIT TO REMAIN IN PLACE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 201	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 11

PLOT DATE : 2/13/2023 8:22 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

NO WORK ON THIS SHEET

FILLER CAPS

FILLER CAPS

CANOPY

N

USH 45

USH 45

MATCHLINE STA 971+41

COLLEGE AVE

SIGN

SIGN

BLDG

MH

LEGEND

CITY OF FRANKLIN SINGLE ARM LIGHTING UNIT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 202	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023401_LR.DWG
LAYOUT NAME - 12

PLOT DATE : 2/13/2023 8:22 AM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

913+77, 0.9' RT
LCC01 - 01

914+77, 1.4' RT
LCC01 - 02

914+95, 2.5' RT
LPB - 33

914+03, 1.5' RT
LPB - 34

915+77, 3.7' RT
LCC01 - 03

915+95, 5.0' RT
LPB - 32

916+78, 7.7' RT
LCC01 - 04

916+95, 7.4' RT
LPB - 31

917+78, 3.7' RT
LCC01 - 05

917+96, 3.3' RT
LPB - 30

USH 45

915

#6 A,N,B,GND

#6 A,N,B,GND

#6 A,N,B,GND

#6 A,N,B,GND

USH 45

918+78, 0.3' LT
LCC01 - 06

918+96, 0.2' RT
LPB - 29

MATCHLINE STA 919+35

EXIST R/W

NOTE: ALL CONDUIT 2" UNLESS OTHERWISE SHOWN

LEGEND

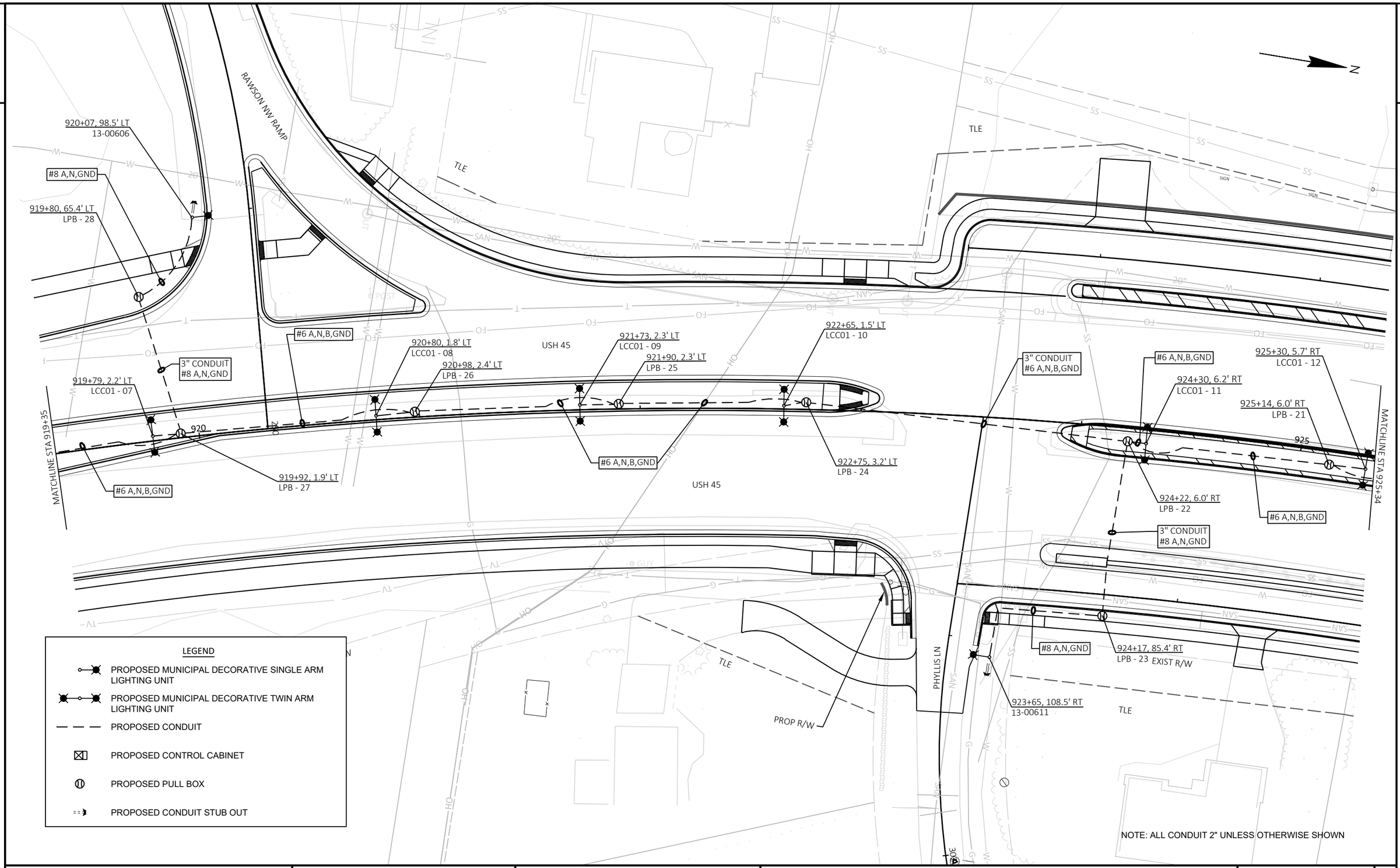
- PROPOSED MUNICIPAL DECORATIVE SINGLE ARM LIGHTING UNIT
- PROPOSED MUNICIPAL DECORATIVE TWIN ARM LIGHTING UNIT
- PROPOSED CONDUIT
- PROPOSED CONTROL CABINET
- PROPOSED PULL BOX
- PROPOSED CONDUIT STUB OUT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 203	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023601_LP.DWG
LAYOUT NAME - 01

PLOT DATE : 4/27/2023 1:16 PM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 204	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023601_LP.DWG
LAYOUT NAME - 02

PLOT DATE : 4/27/2023 1:16 PM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

TLE

PROP R/W

330

EXIST R/W

TLE

927+14, 0.6' LT
LPB - 19

927+30, 1.2' LT
LCC01 - 14

928+14, 1.1' LT
LPB - 18

928+30, 1.1' LT
LCC01 - 15

USH 45

#6 A,N,B,GND

#6 A,N,B,GND

930

#6 A,N,B,GND

MATCHLINE STA 925+34

MATCHLINE STA 931+49

#6 A,N,B,GND

926+30, 3.0' RT
LCC01 - 13

#6 A,N,B,GND

#6 A,N,B,GND

929+14, 1.2' LT
LPB - 17

929+30, 1.2' LT
LCC01 - 16

930+14, 1.4' LT
LPB - 16

930+30, 1.4' LT
LCC01 - 17

931+14, 3.8' LT
LPB - 15

931+30, 2.7' LT
LCC01 - 18

926+13, 3.8' RT
LPB - 20

USH 45

352

354

356

PROP R/W

TLE

EXIST R/W

WELL

LEGEND

- PROPOSED MUNICIPAL DECORATIVE SINGLE ARM LIGHTING UNIT
- PROPOSED MUNICIPAL DECORATIVE TWIN ARM LIGHTING UNIT
- PROPOSED CONDUIT
- PROPOSED CONTROL CABINET
- PROPOSED PULL BOX
- PROPOSED CONDUIT STUB OUT

NOTE: ALL CONDUIT 2" UNLESS OTHERWISE SHOWN

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 205	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023601_LP.DWG
LAYOUT NAME - 03

PLOT DATE : 4/27/2023 1:16 PM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

TLE

EXIST R/W

USH 45

932+05, 6.2' LT
LPB - 14

932+22, 4.2' LT
LCC01 - 19

932+96, 2.9' LT
LPB - 13

933+13, 3.1' LT
LCC01 - 20

934+49, 6.3' RT
LPB - 11

934+42, 6.0' RT
LCC01 -21

935+05, 5.8' RT
LPB - 10

935+19, 5.7' RT
LCC01 - 22

936+04, 1.6' RT
LPB - 09

936+19, 1.0' RT
LCC01 - 23

937+09, 1.2' LT
LCC01 - 24

937+25, 1.3' LT
LPB - 08

935

#6 A,N,B,GND

#6 A,N,B,GND

#6 A,N,B,GND

#6 A,N,B,GND

#6 A,N,B,GND

3" CONDUIT
#6 A,N,B,GND

3" CONDUIT
#8 A,N,GND

USH 45

MATCHLINE STA 931+49

MATCHLINE STA 937+69

358

360

HERDA PL

934+49, 60.9' RT
LPB - 12

PROP R/W

934+01, 107.0' RT
64-3809

EXIST R/W

TLE

LEGEND

PROPOSED MUNICIPAL DECORATIVE SINGLE ARM LIGHTING UNIT

PROPOSED MUNICIPAL DECORATIVE TWIN ARM LIGHTING UNIT

PROPOSED CONDUIT

PROPOSED CONTROL CABINET

PROPOSED PULL BOX

PROPOSED CONDUIT STUB OUT

NOTE: ALL CONDUIT 2" UNLESS OTHERWISE SHOWN

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 206	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023601_LP.DWG
LAYOUT NAME - 04

PLOT DATE : 4/27/2023 1:17 PM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

3" CONDUIT
#8 A,N,GND

940+47, 83.7' LT
LPB - 01

940+47, 77.8' LT
LIGHTING CONTROL CABINET (LCCB-01)
CITY OF FRANKLIN

939+98, 93.5' LT
LPB - 02

939+98, 83.9' LT
12-07089

CORTEZ RD

TLE

2 - 3" CONDUIT
#6 A,N,B,GND
#6 C,N,D,GND

941+09, 76.2' LT
LPB - 03

EXIST R/W

938+09, 1.2' LT
LCC01 - 25

938+25, 1.3' LT
LPB - 07

USH 45

2 - 3" CONDUIT
#6 A,N,B,GND
#6 C,N,D,GND

943+06, 5.5' LT
LCC01 - 29

942+91, 4.6' LT
LPB - 36

940+95, 5.7' RT
LCC01 - 27

#6 C,N,D,GND

MATCHLINE STA 937+69

940

MATCHLINE STA 943+75

939+18, 1.8' LT
LCC01 - 26

#6 A,N,B,GND

#6 A,N,B,GND

939+61, 3.4' LT
LPB - 06

USH 45

942+20, 1.5' RT
LPB - 35

941+10, 6.6' RT
LPB - 04

942+05, 3.0' RT
LCC01 - 28

3" CONDUIT
#6 A,N,B,GND

3" CONDUIT
#8 A,N,GND

941+11, 61.0' RT
LPB - 05

#8 A,N,GND

940+51, 105.1' RT
80-02790

PROP R/W

CORTEZ CIR (SOUTH)

TLE

TLE

TLE

LEGEND

- PROPOSED MUNICIPAL DECORATIVE SINGLE ARM LIGHTING UNIT
- PROPOSED MUNICIPAL DECORATIVE TWIN ARM LIGHTING UNIT
- PROPOSED CONDUIT
- PROPOSED CONTROL CABINET
- PROPOSED PULL BOX
- PROPOSED CONDUIT STUB OUT

NOTE: ALL CONDUIT 2" UNLESS OTHERWISE SHOWN

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 207	E

2

2

945+64, 82.7' LT
08-L-13475

945+63, 75.1' LT
LPB - 39

TLE

S PRARIE WOOD LN

EXIST R/W

TLE

#6 C,N,D,GND

#6 C,N,D,GND

3" CONDUIT
#8 C,N,GND

MATCHLINE STA 943+75

944+06, 10.1' LT
LCC01 - 30

943+91, 9.8' LT
LPB - 37

945+07, 11.3' LT
LCC01 - 31

945+15, 10.1' LT
LPB - 38

946+57, 4.9' RT
LPB - 40

USH 45

946+57, 4.9' RT
LPB - 42

948+25, 0.0' RT
LPB - 43

949+17, 10.2' LT
LPB - 44

#6 C,N,D,GND

#6 C,N,D,GND

#6 C,N,D,GND

MATCHLINE STA 949+67

946+65, 5.1' RT
LCC01 - 32

947+65, 4.6' RT
LCC01 - 33

948+33, 1.1' LT
LCC01 - 34

949+33, 9.6' LT
LCC01 - 35

3" CONDUIT
#6 A,N,B,GND

3" CONDUIT
#8 C,N,GND

USH 45

EXIST R/W

EXIST R/W

EXIST R/W

CORTEZ CIR (NORTH)

TLE

TLE

946+06, 84.3' RT
76-1827

946+56, 73.7' RT
LPB - 41

LEGEND

- PROPOSED MUNICIPAL DECORATIVE SINGLE ARM LIGHTING UNIT
- PROPOSED MUNICIPAL DECORATIVE TWIN ARM LIGHTING UNIT
- PROPOSED CONDUIT
- PROPOSED CONTROL CABINET
- PROPOSED PULL BOX
- PROPOSED CONDUIT STUB OUT

NOTE: ALL CONDUIT 2" UNLESS OTHERWISE SHOWN

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 208	E

2

PROP R/W

TLE

SPEEDWAY DR

PROPOSED R/W

USH 45

950+23, 9.9' LT
LPB - 45

#6 C,N,D,GND

MATCHLINE STA 949+67

950

950+34, 9.7' LT
LCC01 - 36

953+71, 10.0 RT
LPB - 17

954+69, 10.2' RT
LPB - 16

955

955+70, 9.6' RT
LPB - 15

MATCHLINE STA 955+72

#6 C,N,D,GND

955+62, 9.8' RT
LCC02 - 03

954+62, 10.7' RT
LCC02 - 02

953+62, 10.3' RT
LCC02 - 01

USH 45

PROP R/W

TLE

PRIVATE DR

LEGEND

- PROPOSED MUNICIPAL DECORATIVE SINGLE ARM LIGHTING UNIT
- PROPOSED MUNICIPAL DECORATIVE TWIN ARM LIGHTING UNIT
- PROPOSED CONDUIT
- PROPOSED CONTROL CABINET
- PROPOSED PULL BOX
- PROPOSED CONDUIT STUB OUT

NOTE:

INTERSETCTION LIGHTING WILL BE LIT FROM SIGNAL CABINET.
SEE SIGNAL PLAN FOR LOCATIONS.

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 209	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023601_LP.DWG
LAYOUT NAME - 07

PLOT DATE : 4/27/2023 1:17 PM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

TLE

EXIST R/W

EXIST R

USH 45

956+61, 7.4' RT
LCC02 - 04

956+78, 6.7' RT
LPB - 14

957+73, 0.9' RT
LCC02 - 05

957+89, 1.1' RT
LPB - 13

958+86, 1.9' RT
LCC02 - 06

959+01, 1.4' RT
LPB - 12

959+98, 2.8' LT
LCC02 - 07

960+14, 4.0' LT
LPB - 11

#6 C,N,D,GND

960

961+10, 10.4' LT
LCC02 - 08

961+26, 10.2' LT
LPB - 10

#6 C,N,D,GND

#6 C,N,D,GND

#6 C,N,D,GND

USH 45

MATCHLINE STA 955+72

MATCHLINE STA 961+76

TLE

SIGT

LEGEND

- PROPOSED MUNICIPAL DECORATIVE SINGLE ARM LIGHTING UNIT
- PROPOSED MUNICIPAL DECORATIVE TWIN ARM LIGHTING UNIT
- PROPOSED CONDUIT
- PROPOSED CONTROL CABINET
- PROPOSED PULL BOX
- PROPOSED CONDUIT STUB OUT

NOTE: ALL CONDUIT 2" UNLESS OTHERWISE SHOWN

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 210	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023601_LP.DWG
LAYOUT NAME - 08

PLOT DATE : 4/27/2023 1:17 PM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- PROPOSED MUNICIPAL DECORATIVE SINGLE ARM LIGHTING UNIT
- PROPOSED MUNICIPAL DECORATIVE TWIN ARM LIGHTING UNIT
- PROPOSED CONDUIT
- PROPOSED CONTROL CABINET
- PROPOSED PULL BOX
- PROPOSED CONDUIT STUB OUT

N

#6 C,N,D,GND
962+23, 9.8' LT
LCC02 - 09
962+38, 9.8' LT
LPB - 09
3" CONDUIT
#6 C,N,D,GND
963+48, 9.9' RT
LPB - 07
#6 C,N,D,GND
963+72, 10.3' RT
LCC02 - 10
964+72, 10.3' RT
LCC02 - 11
#6 C,N,D,GND
965+73, 7.7' RT
LCC02 - 12
#6 C,N,D,GND
966+56, 4.6' RT
LPB - 04
#6 A,N,B,GND
967+58, 6.3' RT
LCC02 - 14
967+43, 9.0' RT
LPB - 03
3" CONDUIT
#6 C,N,B,GND
USH 45
965
965+88, 7.2' RT
LPB - 05
MATCHLINE STA 961+76
MATCHLINE STA 967+77
3" CONDUIT
#8 C,N,GND
#6 C,N,D,GND
964+88, 10.0' RT
LPB - 06
USH 45
#6 C,N,D,GND
966+43, 4.3' RT
LCC02 - 13
2 - 3" CONDUIT
#6 A,N,B,GND
#6 C,N,D,GND
967+51, 61.0' RT
LPB - 02
#8 C,N,GND
TLE
TLE
2 - 3" CONDUIT
#6 A,N,B,GND
#6 C,N,D,GND
VENTURE DR
PROP R/W
EXIST R/W
963+06, 74.6' RT
LPB - 08
963+02, 84.1' RT
80-05872
WHITNALL EDGE RD
967+25, 83.9' RT
87-08031
967+23, 110.3' RT
LIGHTING CONTROL CABINET (LCCB-02)
CITY OF FRANKLIN
967+24, 96.1' RT
LPB - 01

NOTE: ALL CONDUIT 2" UNLESS OTHERWISE SHOWN

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 211	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023601_LP.DWG
LAYOUT NAME - 09
PLOT DATE : 4/27/2023 1:17 PM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES:
1. ALL CONDUIT 2" UNLESS OTHERWISE SHOWN
2. LIGHTING UNITS SALVAGED
3. INTERCEPT EXISTING CONDUIT AT THE LOCATIONS
4. EXISTING INTERSECTION LIGHTING CABINET CB1 IS LOCATED ON THE SE CORNER OF USH 45 & COLLEGE AVE

TLE

EXIST R/W

968+41, 5.7' RT
LPB - 18
968+52, 5.5' RT
LCC02 - 15

MATCHLINE STA 967+77

970

#6 A,N,B,GND

969+46, 3.0' RT
CB1 - 1
SEE NOTES 2 - 4

971+19, 11.5' RT
CB1 - 2
SEE NOTES 2 - 4

USH 45

USH 45

COLLEGE AVE

SIGN

SIGN

SIGN

CANOPY

BLDG

LEGEND

- PROPOSED MUNICIPAL DECORATIVE SINGLE ARM LIGHTING UNIT
- PROPOSED MUNICIPAL DECORATIVE TWIN ARM LIGHTING UNIT
- TWIN LUMINAIRE, INTERSECTION TRAFFIC LIGHTING POLE, TRANSFORMER BASE
- PROPOSED CONDUIT
- PROPOSED CONTROL CABINET
- PROPOSED PULL BOX
- PROPOSED CONDUIT STUB OUT

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET 212	E

FILE NAME : V:\PROJECTS\295.01 - ID 2040-14-00 STH 100 - CTH BB TO COLLEGE AVE. - LIGHTING DESIGN\CADD\CADD SHEETS\023601_LP.DWG
LAYOUT NAME - 10

PLOT DATE : 4/27/2023 1:17 PM PLOT BY : ARKADIUSZ KRUPA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NON-METALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1", NON METALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- EVP DETECTOR HEAD
- EVP DESIGNATOR
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- LANE DESIGNATION FOR INFO ONLY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT WITH 12" PULLBOX
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

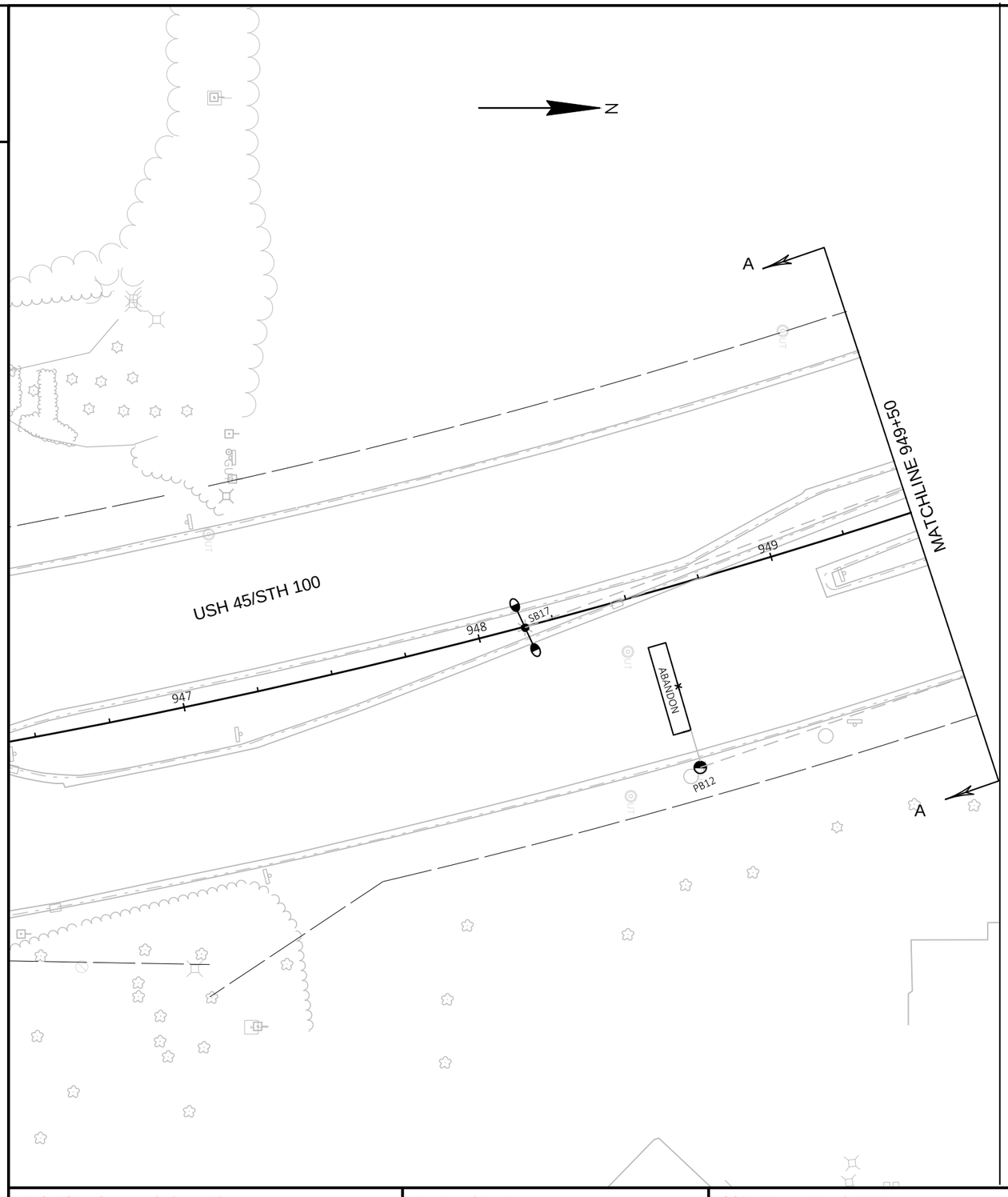
1. EXISTING CONDUIT TO BE ABANDONED IN PLACE.CONTRACTOR TO REMOVE ANY CONDUCTORS IN CONDUIT.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE.THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN PROJECT WHICH ARE NOT SHOWN.
3. CONTROLLER AND CABINET TO BE REMOVED BY WISDOT ELECTRICAL PERSONNEL. .
4. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE.LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
5. GRAYSHADE REPRESENTS EXISTING.
   BOLD REPRESENTS ITEMS TO BE REMOVED.

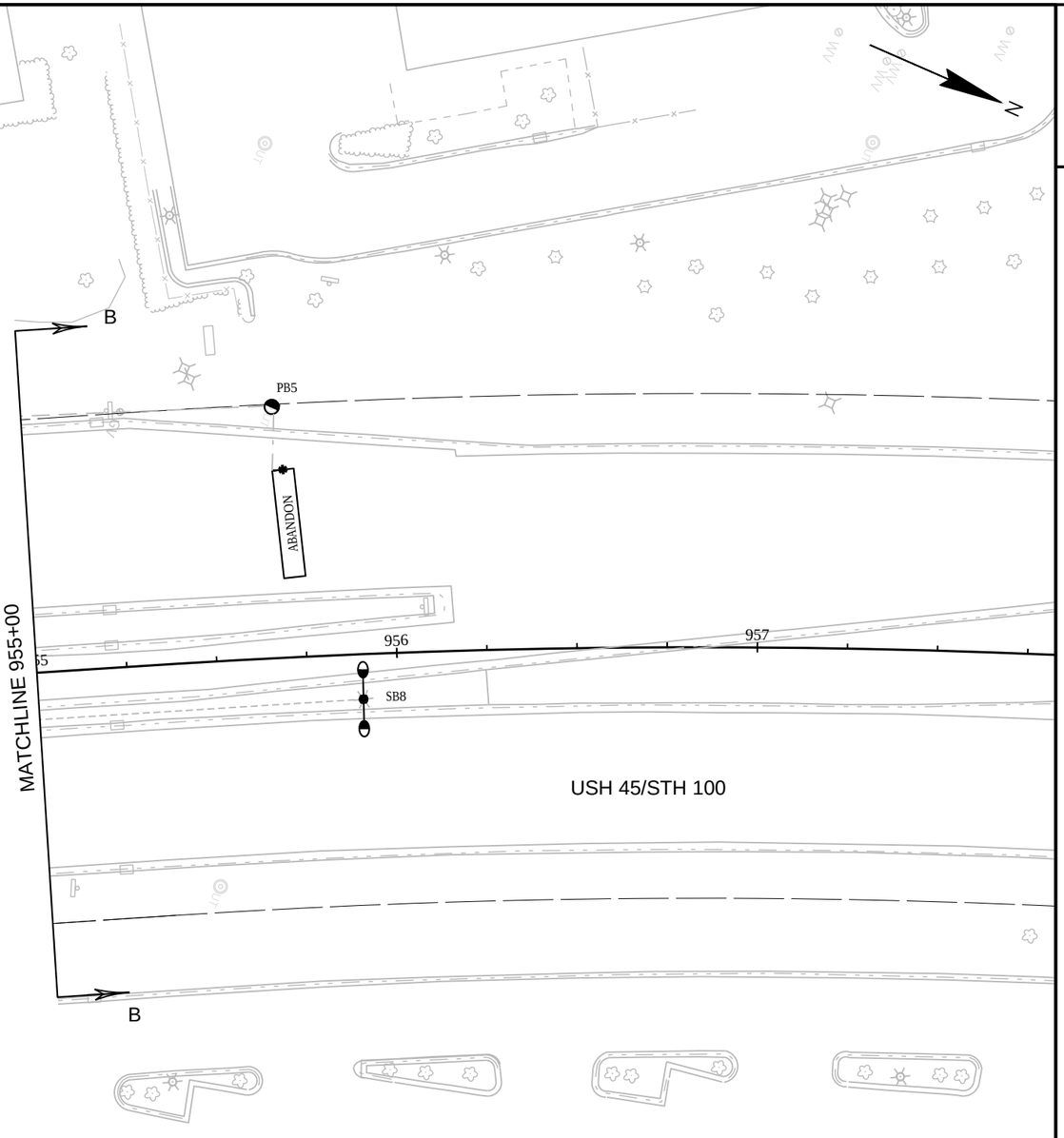
SPEEDWAY DR
USH 45/STH 100
EXIST R/W
PRIVATE DR
ABANDON
950
951
952
953
954
548
520

TRAFFIC CONTROL SIGNAL
USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY
SIGNAL NO. S40-1236
REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES ,LLC
REVISED BY:
PAGE 1 OF 2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 213	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024001-SR.DWG
LAYOUT NAME - 024001
PLOT DATE : 4/27/2023 2:23 PM
PLOT BY : AMBILY PANKAJ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42





TRAFFIC CONTROL SIGNAL
USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. S40-1236

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES,LLC
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 214	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024001-SR.DWG
LAYOUT NAME - 024002

PLOT DATE : 4/27/2023 2:23 PM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : 1 IN:40 FT

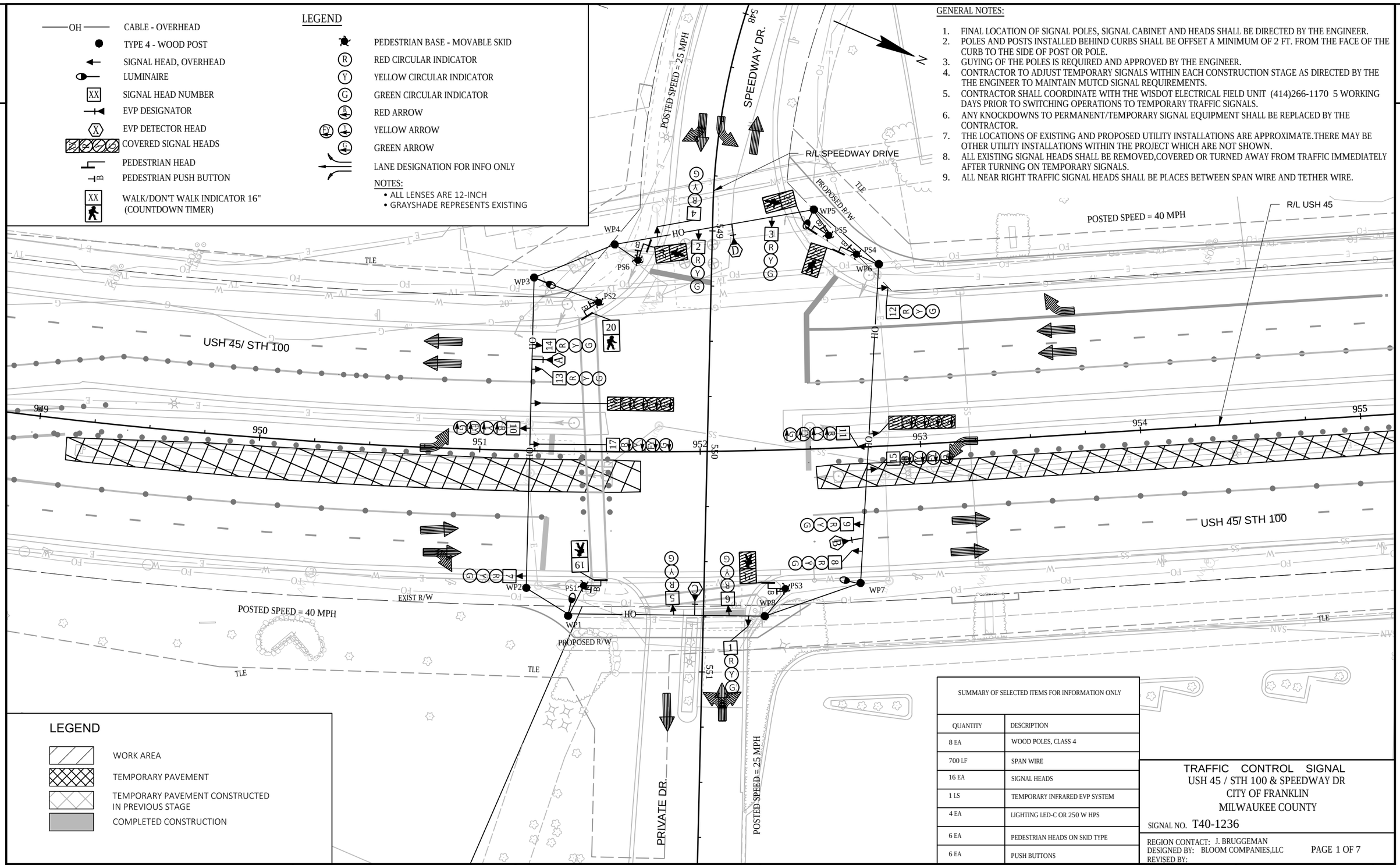
LEGEND

OH — CABLE - OVERHEAD	PEDESTRIAN BASE - MOVABLE SKID
TYPE 4 - WOOD POST	RED CIRCULAR INDICATOR
SIGNAL HEAD, OVERHEAD	YELLOW CIRCULAR INDICATOR
LUMINAIRE	GREEN CIRCULAR INDICATOR
XX SIGNAL HEAD NUMBER	RED ARROW
EVP DESIGNATOR	YELLOW ARROW
X EVP DETECTOR HEAD	GREEN ARROW
COVERED SIGNAL HEADS	LANE DESIGNATION FOR INFO ONLY
PEDESTRIAN HEAD	
B PEDESTRIAN PUSH BUTTON	
XX WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)	

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

GENERAL NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET AND HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FT. FROM THE FACE OF THE CURB TO THE SIDE OF POST OR POLE.
3. GUYING OF THE POLES IS REQUIRED AND APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT (414)266-1170 5 WORKING DAYS PRIOR TO SWITCHING OPERATIONS TO TEMPORARY TRAFFIC SIGNALS.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE.THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED,COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
9. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACES BETWEEN SPAN WIRE AND TETHER WIRE.



LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY

QUANTITY	DESCRIPTION
8 EA	WOOD POLES, CLASS 4
700 LF	SPAN WIRE
16 EA	SIGNAL HEADS
1 LS	TEMPORARY INFRARED EVP SYSTEM
4 EA	LIGHTING LED-C OR 250 W HPS
6 EA	PEDESTRIAN HEADS ON SKID TYPE
6 EA	PUSH BUTTONS

TRAFFIC CONTROL SIGNAL
USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. T40-1236

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES,LLC
REVISED BY:

PAGE 1 OF 7

PROJECT NO: 2040-14-70 | HWY: USH 45 | COUNTY: MILWAUKEE | TEMPORARY TRAFFIC SIGNAL PLAN - PRE-CONSTRUCTION & STAGE 1 | SHEET 215 | E

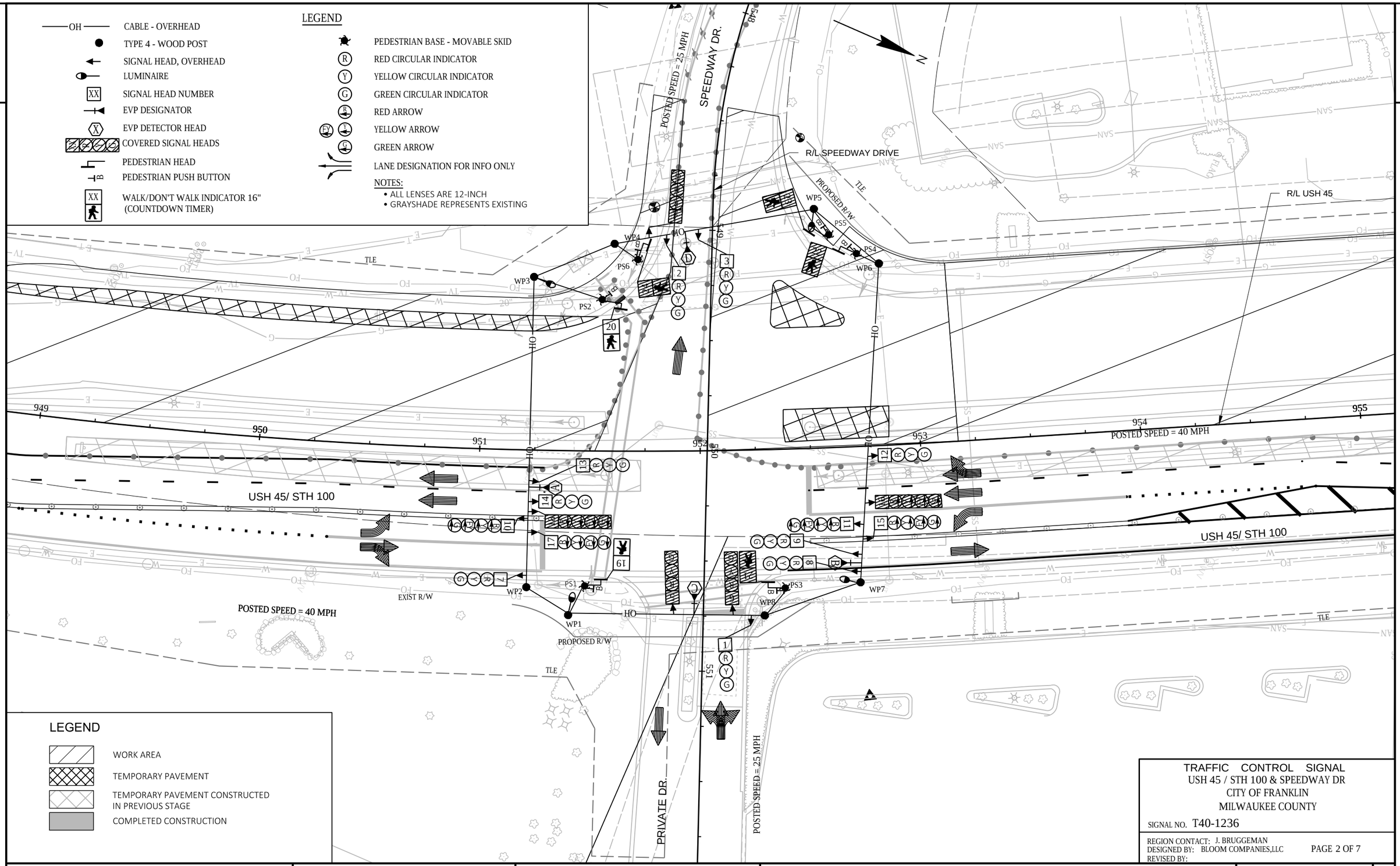
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024101-ST-1.DWG
LAYOUT NAME - 0241011
PLOT DATE : 5/5/2023 8:26 AM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- OH — CABLE - OVERHEAD
- TYPE 4 - WOOD POST
- SIGNAL HEAD, OVERHEAD
- LUMINAIRE
- XX — SIGNAL HEAD NUMBER
- EVP DESIGNATOR
- X — EVP DETECTOR HEAD
- COVERED SIGNAL HEADS
- PEDESTRIAN HEAD
- B — PEDESTRIAN PUSH BUTTON
- XX — WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN BASE - MOVABLE SKID
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- EY — Y — YELLOW ARROW
- G — GREEN ARROW
- LANE DESIGNATION FOR INFO ONLY

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING



LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION

TRAFFIC CONTROL SIGNAL
USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. T40-1236

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES,LLC
REVISED BY:

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 216	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024101-ST-2A1.DWG
LAYOUT NAME - 0241021

PLOT DATE : 5/5/2023 8:30 AM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- OH — CABLE - OVERHEAD
- TYPE 4 - WOOD POST
- SIGNAL HEAD, OVERHEAD
- LUMINAIRE
- XX — SIGNAL HEAD NUMBER
- EVP DESIGNATOR
- X — EVP DETECTOR HEAD
- COVERED SIGNAL HEADS
- PEDESTRIAN HEAD
- B — PEDESTRIAN PUSH BUTTON
- XX — WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN BASE - MOVABLE SKID
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- EY — YELLOW ARROW
- G — GREEN ARROW
- LANE DESIGNATION FOR INFO ONLY

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

N

SPEEDWAY DR.

POSTED SPEED = 25 MPH

R/L SPEEDWAY DRIVE

PROPOSED R/W

TLE

R/L USH 45

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

PS1 PS2 PS3 PS4 PS5 PS6

HO

949 950 951 952 953 954 955

550 551

USH 45/ STH 100

POSTED SPEED = 40 MPH

EXIST R/W

PROPOSED R/W

PRIVATE DR.

POSTED SPEED = 25 MPH

LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION

TRAFFIC CONTROL SIGNAL
USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. T40-1236

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES,LLC
REVISED BY:

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B	SHEET 217	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024101-ST-2A2.DWG
LAYOUT NAME - 0241022

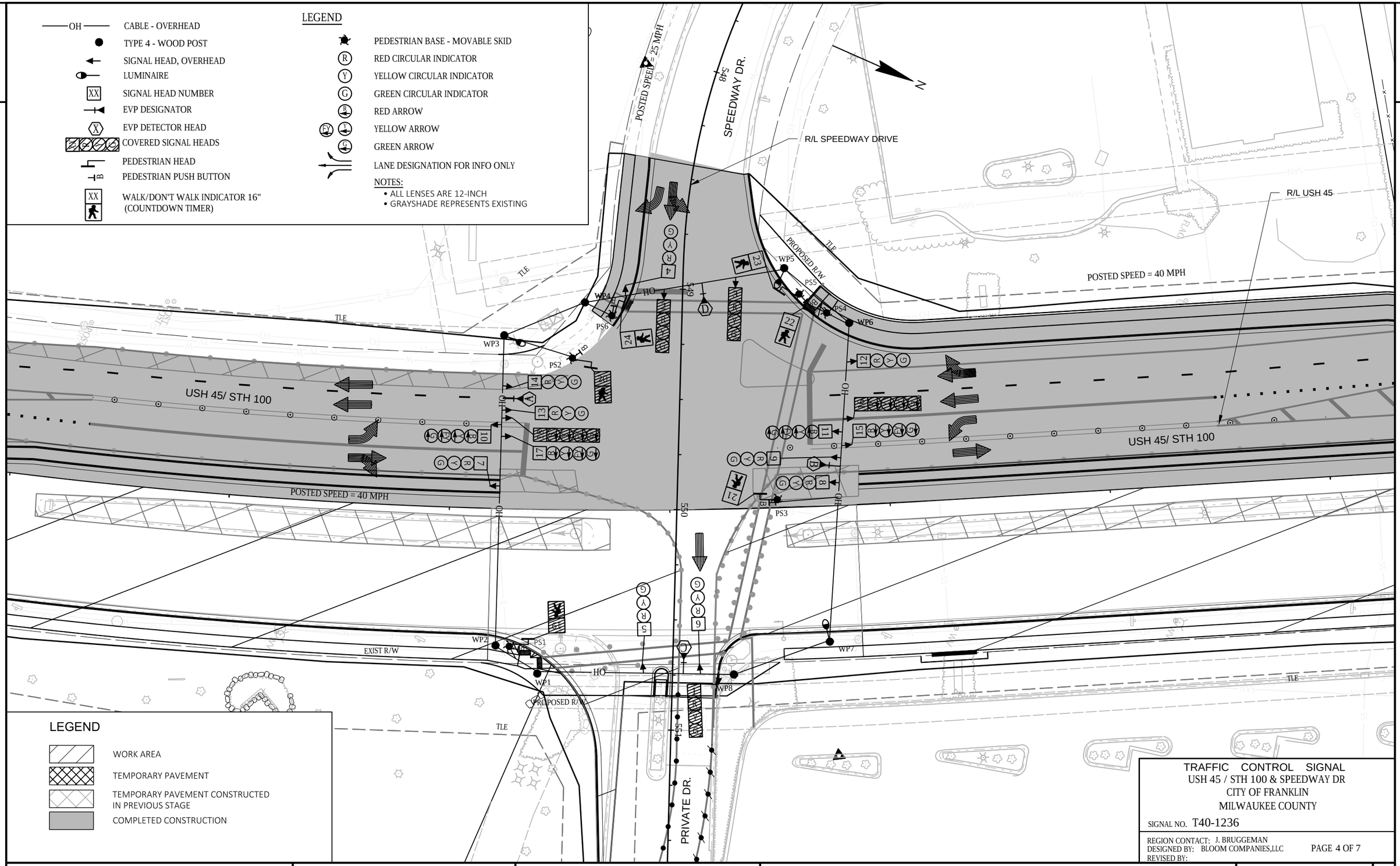
PLOT DATE : 5/5/2023 8:31 AM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- OH — CABLE - OVERHEAD
- TYPE 4 - WOOD POST
- SIGNAL HEAD, OVERHEAD
- LUMINAIRE
- XX — SIGNAL HEAD NUMBER
- EVP DESIGNATOR
- X — EVP DETECTOR HEAD
- COVERED SIGNAL HEADS
- PEDESTRIAN HEAD
- PB — PEDESTRIAN PUSH BUTTON
- XX — WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN BASE - MOVABLE SKID
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- EY — Y — YELLOW ARROW
- G — GREEN ARROW
- LANE DESIGNATION FOR INFO ONLY

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING



LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION

TRAFFIC CONTROL SIGNAL
USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. T40-1236

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES,LLC
REVISED BY:

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLANS - STAGE 3A	SHEET 218	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024101-ST-3A.DWG
LAYOUT NAME - 0241031

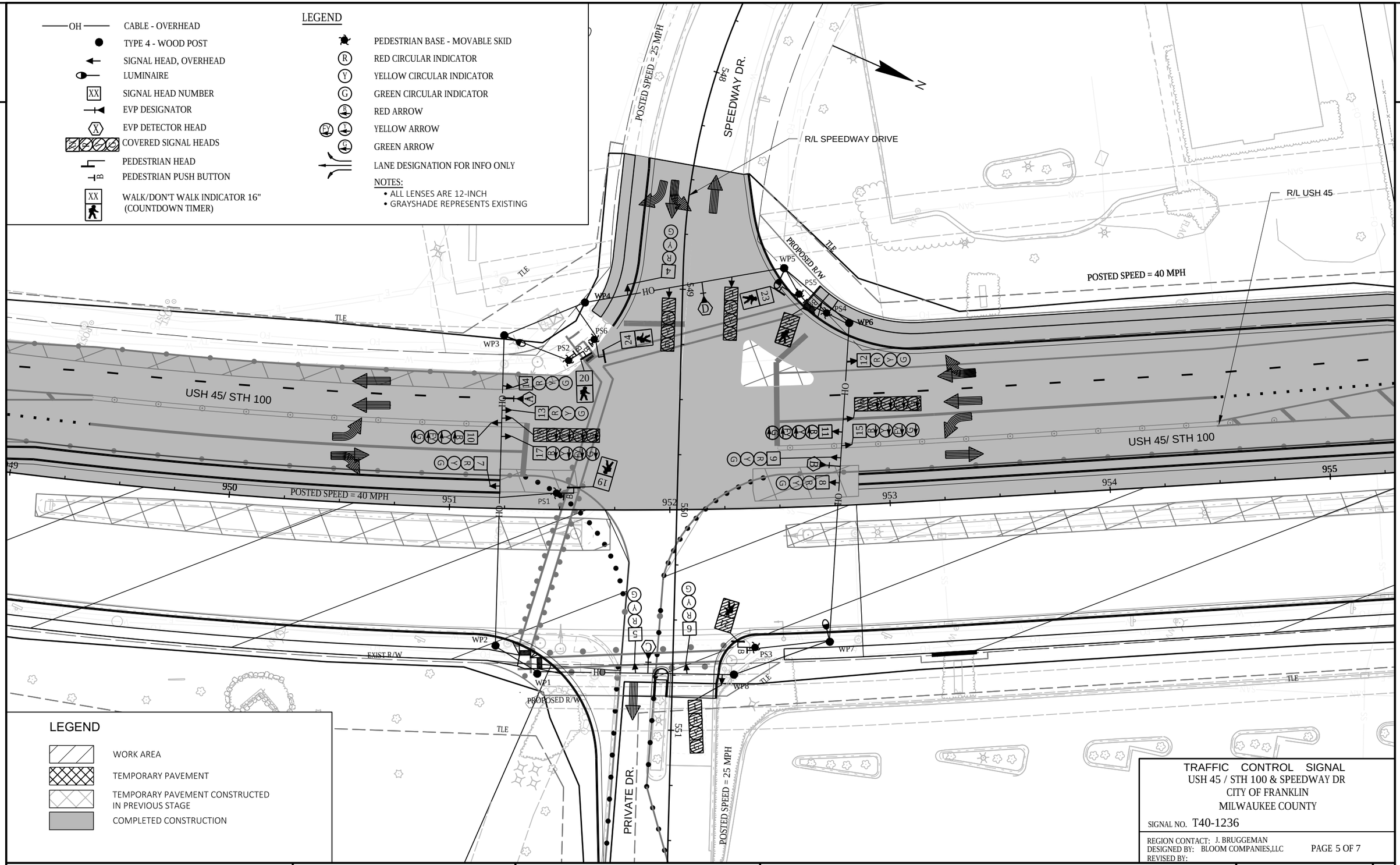
PLOT DATE : 5/5/2023 8:31 AM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

OH — CABLE - OVERHEAD	PEDESTRIAN BASE - MOVABLE SKID
TYPE 4 - WOOD POST	RED CIRCULAR INDICATOR
SIGNAL HEAD, OVERHEAD	YELLOW CIRCULAR INDICATOR
LUMINAIRE	GREEN CIRCULAR INDICATOR
XX SIGNAL HEAD NUMBER	RED ARROW
EVP DESIGNATOR	YELLOW ARROW
X EVP DETECTOR HEAD	GREEN ARROW
COVERED SIGNAL HEADS	LANE DESIGNATION FOR INFO ONLY
PEDESTRIAN HEAD	
B PEDESTRIAN PUSH BUTTON	
XX WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)	

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING



LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION

TRAFFIC CONTROL SIGNAL
USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. T40-1236

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES,LLC
REVISED BY:

PAGE 5 OF 7

PROJECT NO:	HWY:	COUNTY:		SHEET	
2040-14-70	USH 45	MILWAUKEE	TEMPORARY SIGNAL PLANS - STAGE 3B	219	E

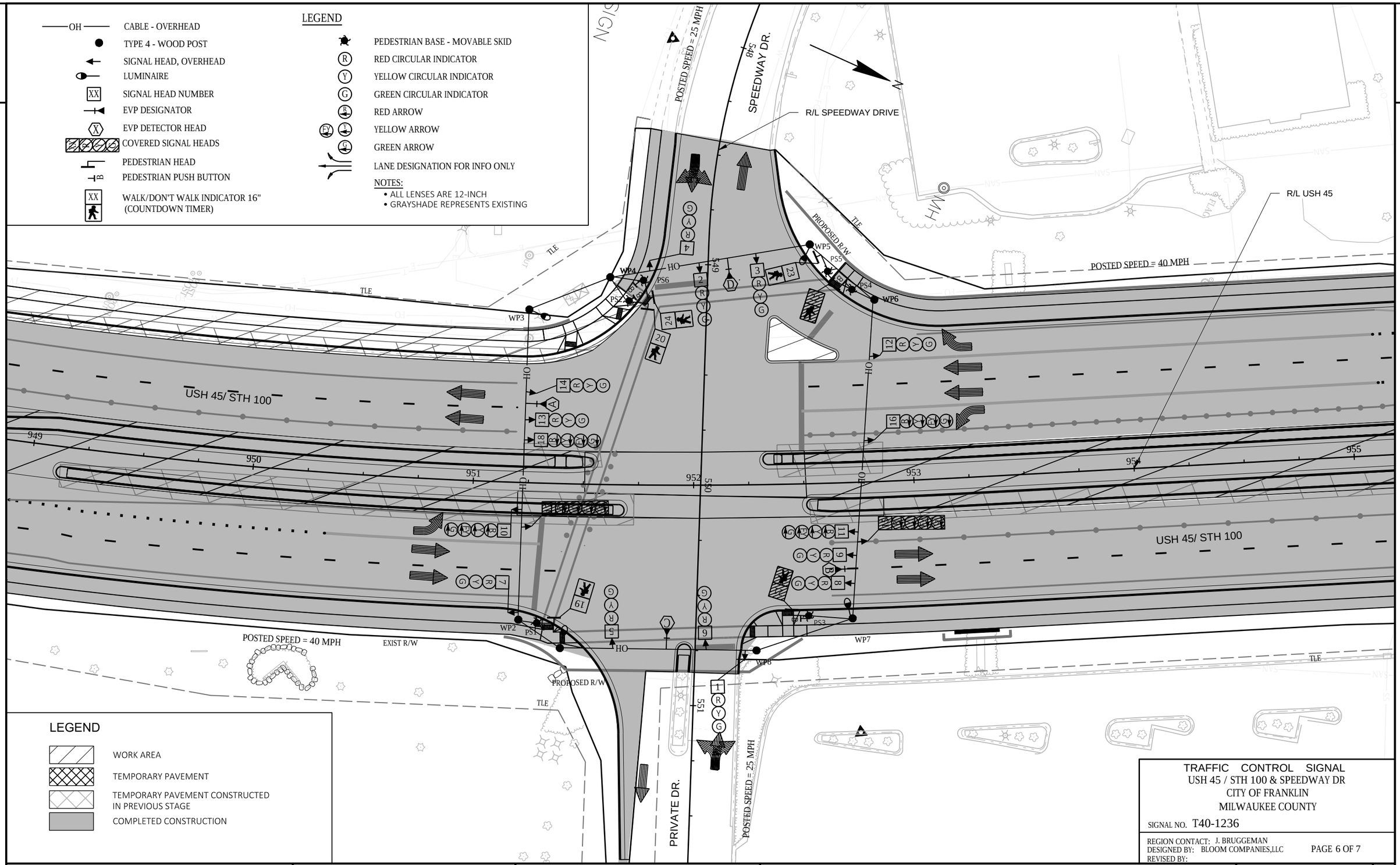
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024101-ST-3B.DWG
LAYOUT NAME - 0241032
PLOT DATE : 5/5/2023 8:33 AM
PLOT BY : AMBILY PANKAJ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- OH — CABLE - OVERHEAD
- TYPE 4 - WOOD POST
- SIGNAL HEAD, OVERHEAD
- LUMINAIRE
- XX — SIGNAL HEAD NUMBER
- EVP DESIGNATOR
- X — EVP DETECTOR HEAD
- COVERED SIGNAL HEADS
- PEDESTRIAN HEAD
- PB — PEDESTRIAN PUSH BUTTON
- XX — WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN BASE - MOVABLE SKID
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- RA — RED ARROW
- FY — YELLOW ARROW
- GA — GREEN ARROW
- LANE DESIGNATION FOR INFO ONLY

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING



LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION

TRAFFIC CONTROL SIGNAL
USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. T40-1236

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES,LLC
REVISED BY:

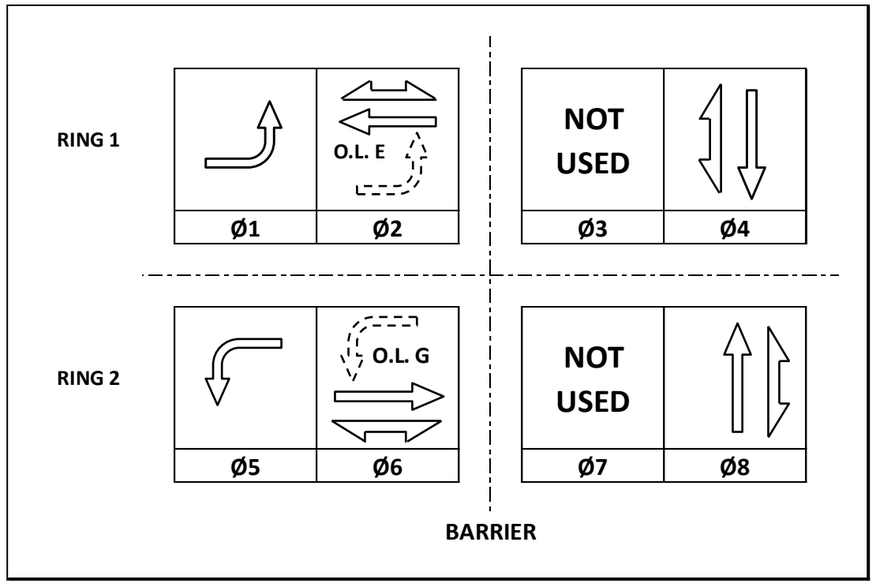
PAGE 6 OF 7

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLANS - STAGE 4	SHEET 220	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024101-ST-4.DWG
LAYOUT NAME - 0241041

PLOT DATE : 5/5/2023 8:41 AM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	15,16,17,18	R ←
Ø2	7,8,9	R
Ø3		
Ø4	1,2,3	R
Ø5	10,11	R ←
Ø6	12,13,14	R
Ø7		
Ø8	4,5,6	R
Ø2P	23,24	
Ø4P	19,20	
Ø6P		
Ø8P	21,22	
OLE	10,11	-
OLF		
OLG	15,16	-
OLH		



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2	6	4+8	8+4

AFTER PREEMPTION SEQUENCE 2 OR 6, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1			MAX	X
2	X	6	MAX	X
3				
4		8	MAX	X
5			MAX	X
6	X	2	MAX	X
7				
8		4	MAX	X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

N

USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO:	T40-1236	CABINET TYPE: TEMP
		CONTROLLER TYPE: ECONOLITE
DATE:	05/2023	PAGE NUMBER: 7 OF 7

FILE NAME: X:\BM1-3054 US 45 Final Design\5_Design\03_Roads\20401400\SheetsPlan\Speedway\024101-PH.XLSX PLOT DATE: 4/26/2023 PLOT NAME: 024101-PH.XLSX PLOT BY: _____ PLOT SCALE: 1:1

LEGEND

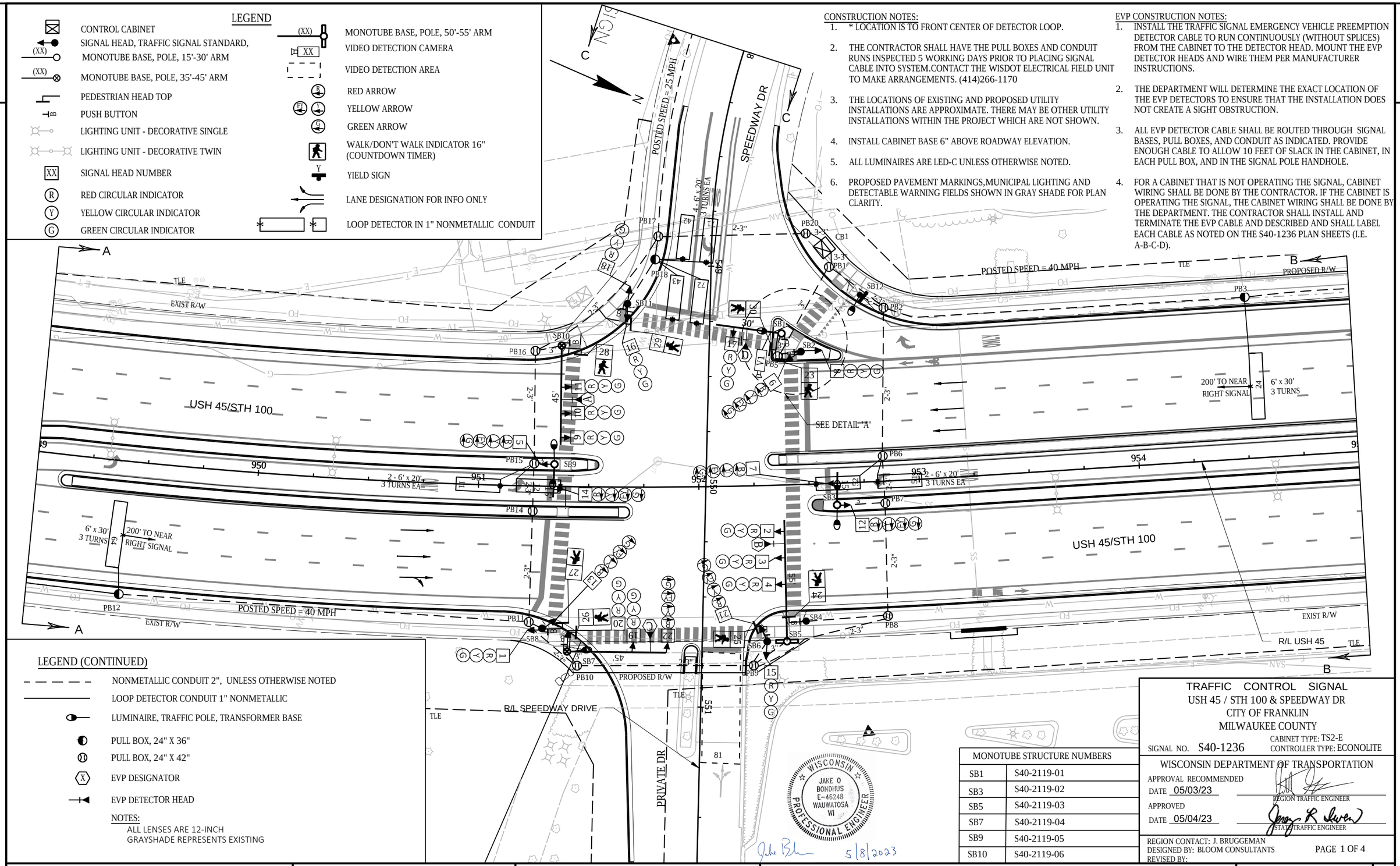
- CONTROL CABINET
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, MONOTUBE BASE, POLE, 15'-30' ARM
- MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD TOP
- PUSH BUTTON
- LIGHTING UNIT - DECORATIVE SINGLE
- LIGHTING UNIT - DECORATIVE TWIN
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- MONOTUBE BASE, POLE, 50'-55' ARM
- VIDEO DETECTION CAMERA
- VIDEO DETECTION AREA
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414)266-1170
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. PROPOSED PAVEMENT MARKINGS,MUNICIPAL LIGHTING AND DETECTABLE WARNING FIELDS SHOWN IN GRAY SHADE FOR PLAN CLARITY.

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PREEMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEAD. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING SHALL BE DONE BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING SHALL BE DONE BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AND DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE S40-1236 PLAN SHEETS (I.E. A-B-C-D).



LEGEND (CONTINUED)

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- EVP DESIGNATOR
- EVP DETECTOR HEAD

NOTES:
ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS	
SB1	S40-2119-01
SB3	S40-2119-02
SB5	S40-2119-03
SB7	S40-2119-04
SB9	S40-2119-05
SB10	S40-2119-06

WISCONSIN PROFESSIONAL ENGINEER
JAKE O BONDHUS
E-46248
WAUWATOSA
WI
5/8/2023

TRAFFIC CONTROL SIGNAL
USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. S40-1236
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 05/03/23
REGION TRAFFIC ENGINEER

APPROVED
DATE 05/04/23
STATE TRAFFIC ENGINEER

JPB 05-03-23

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM CONSULTANTS
REVISED BY:

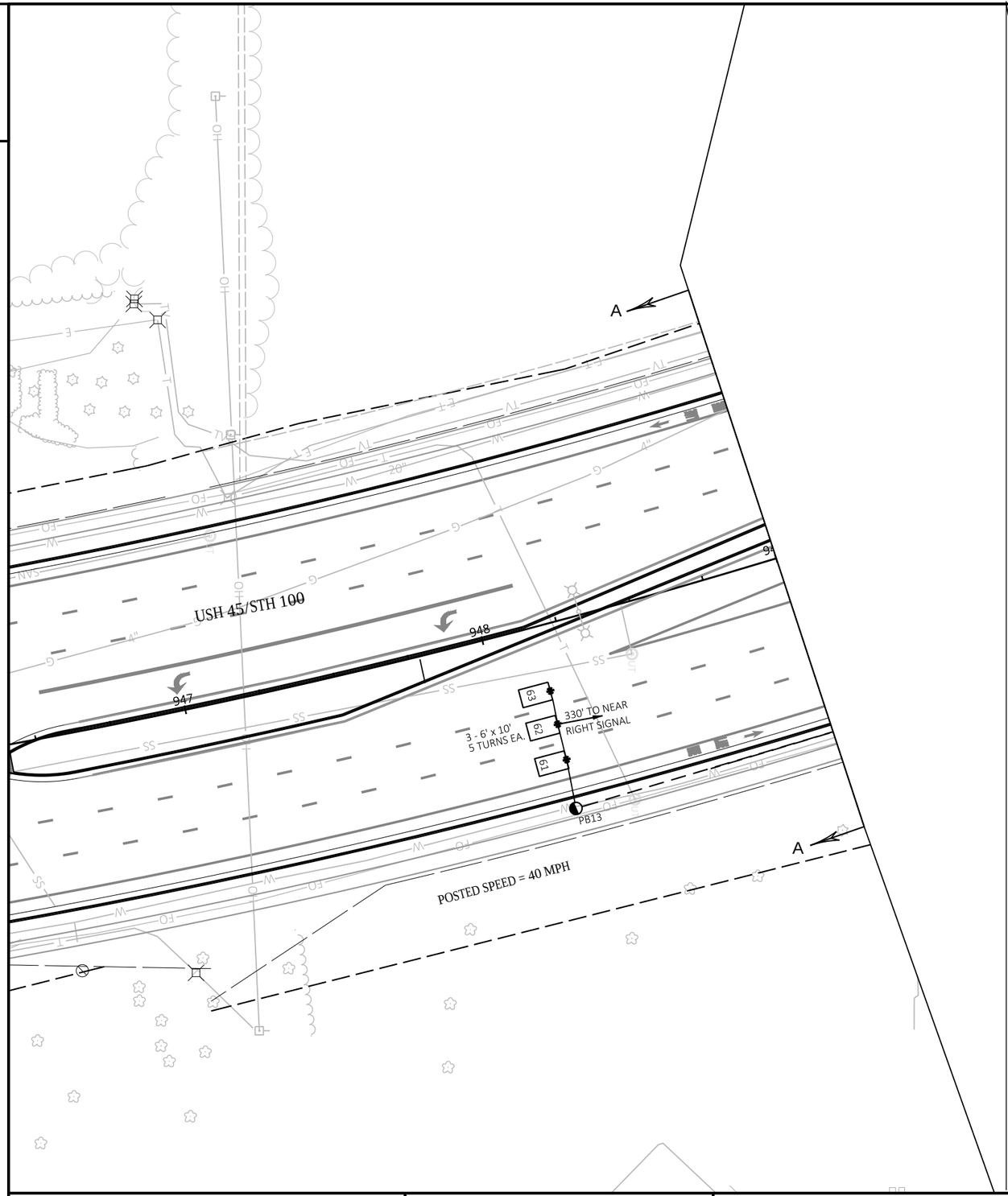
PAGE 1 OF 4

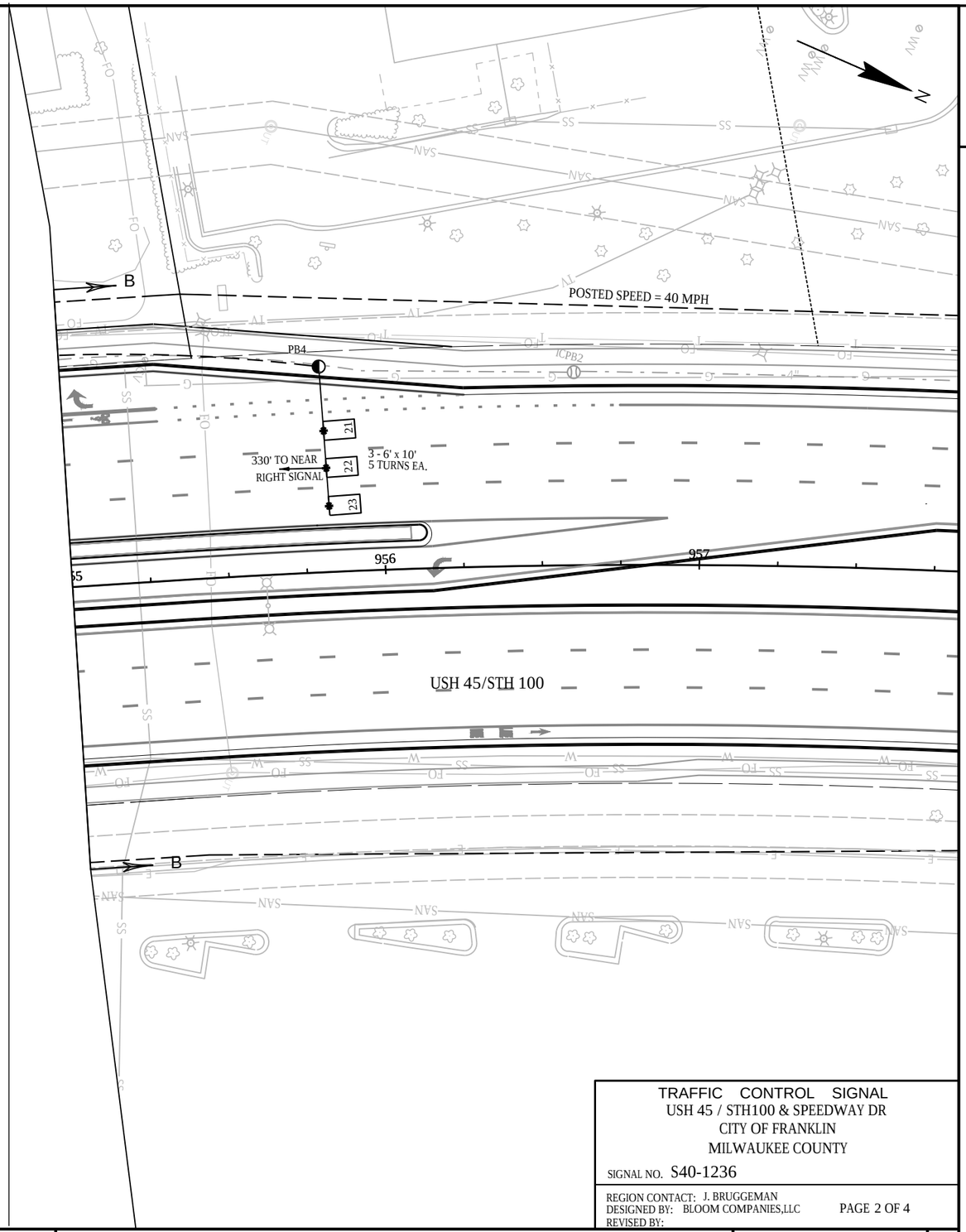
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 222	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 024201
PLOT DATE : 5/8/2023 9:34 AM
PLOT BY : AMBILY PANKAJ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2





2

TRAFFIC CONTROL SIGNAL
USH 45 / STH100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. S40-1236

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES,LLC
REVISED BY:

PAGE 2 OF 4

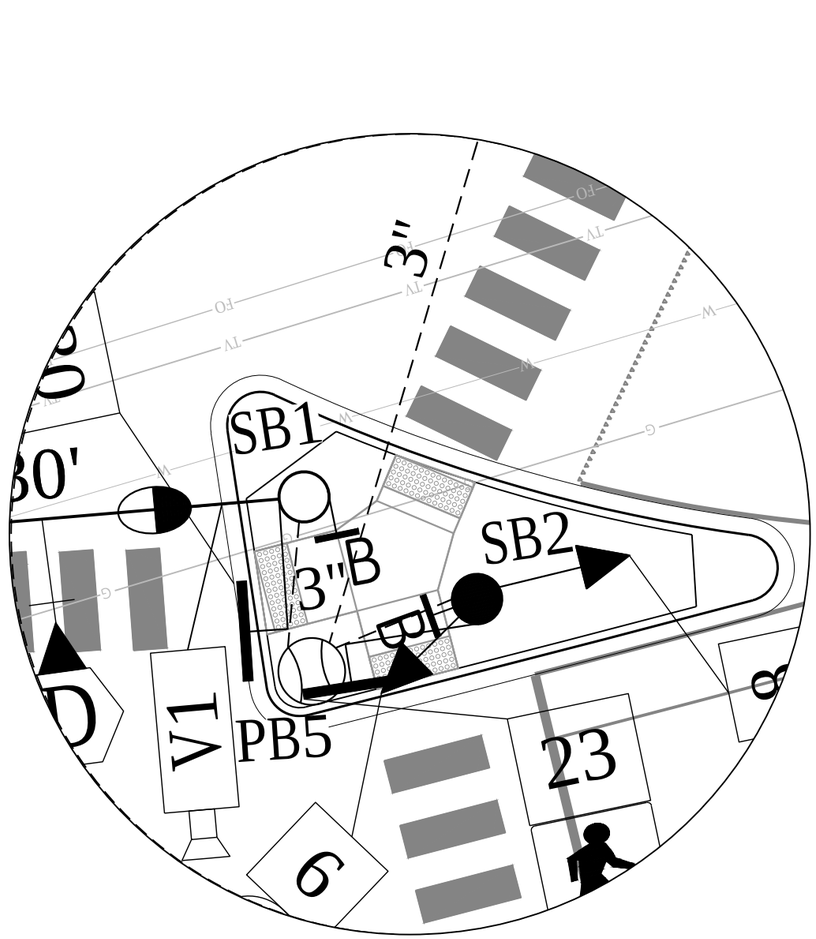
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 223	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 024202

PLOT DATE : 4/28/2023 12:34 PM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





DETAIL 'A'

TRAFFIC CONTROL SIGNAL
USH 45 / STH100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. S40-1236

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES,LLC
REVISED BY:

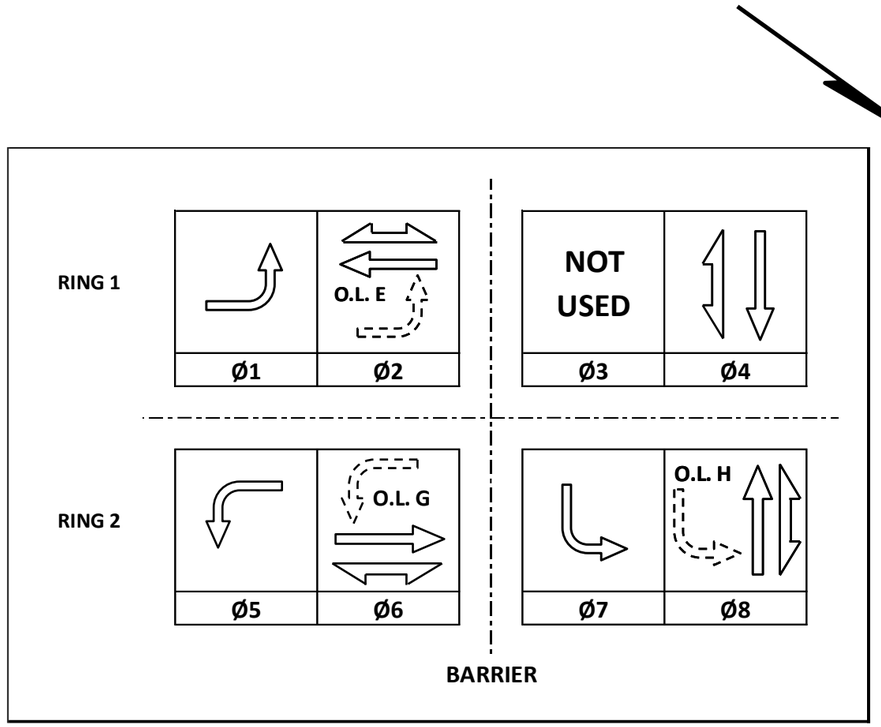
PAGE 3 OF 4

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 224	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 024203
PLOT DATE : 4/28/2023 12:34 PM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R
Ø2	8,9,10,11	R
Ø3		
Ø4	18,19,20	R
Ø5	12,13,14	R
Ø6	1,2,3,4	R
Ø7	21,22	R
Ø8	15,16,17	R
Ø2P	29,30	
Ø4P	27,28	
Ø6P	25,26	
Ø8P	23,24	
OLE	5,6,7	-
OLF		
OLG	12,13,14	-
OLH	21,22	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	1+6	4+7	8

AFTER PREEMPTION SEQUENCE 2+5 OR 1+6, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	41	43	51	61	63
CALLED PHASE	1	2	2	4	4	5	6	6
CALL OPTION	X	X	X		X	X	X	X
DELAY TIME					X			
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME				X				
USE ADDED INITIAL		X	X				X	X
CROSS SWITCH PHASE	2					6		

19	17	23	21	27	33	37	29	DETECTOR INPUT
71		81						PLAN LOOP DETECTOR*(S)
7		8						CALLED PHASE
X		X						CALL OPTION
								DELAY TIME
X		X						EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
8								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	24	42		52	62	64
CALLED PHASE	1	2	2	4		5	6	6
CALL OPTION	X	X	X	X		X	X	X
DELAY TIME				X				
EXTENTION OPTION	X	X	X	X		X	X	X
EXTEND TIME								
USE ADDED INITIAL		X	X				X	X
CROSS SWITCH PHASE	2					6		

20	18	24	22	28	34	38	30	DETECTOR INPUT
72								PLAN LOOP DETECTOR*(S)
7								CALLED PHASE
X								CALL OPTION
								DELAY TIME
X								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
8								CROSS SWITCH PHASE

GENERAL NOTES:

1.

USH 45 / STH 100 & SPEEDWAY DR
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO:	S40-1236	CABINET TYPE: TS2-E	
		CONTROLLER TYPE: ECONOLITE	
DATE:	05/2023	PAGE NUMBER: 4 OF 4	

PROJECT NO:	2040-14-70
INTERSECTION:	USH 45 / STH 100 & SPEEDWAY DR

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION COLOR									PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<FLASH YEL>	<GREEN>	D/WALK	WALK	
SB1	12	17	RED	ORG	GRN							
		30								BLK	BLU	
		B										WHT/BLK
SB2	12	6				RED/BLK	ORG/BLK	BLK/WHT	GREEN/BLK			
		8	RED	ORG	GRN							
		23								BLK	BLU	
		B										WHT/BLK
SB3	12	7				RED	ORG	BLK/WHT	GRN			
		12				RED/BLK	ORG/BLK	BLU/BLK	GREEN/BLK			
SB4	12	24								BLK	BLU	
		B										WHT/BLK
SB5	12	2	RED	ORG	GRN							
		3	RED	ORG	GRN							
		4	RED	ORG	GRN							
SB6	12	15	RED	ORG	GRN							
		21				RED/BLK	ORG/BLK	BLK/WHT	GREEN/BLK			
		25								BLK	BLU	
		B										WHT/BLK
SB7	12	19	RED	ORG	GRN							
		20	RED	ORG	GRN							
		22				RED/BLK	ORG/BLK	BLK/WHT	GREEN/BLK			
		26								BLK	BLU	
		B										WHT/BLK
SB8	12	1	RED	ORG	GRN							
		13				RED/BLK	ORG/BLK	BLK/WHT	GREEN/BLK			
		27								BLK	BLU	
		B										WHT/BLK
SB9	12	5				RED	ORG	BLK/WHT	GRN			
		14				RED/BLK	ORG/BLK	BLU/BLK	GREEN/BLK			
SB10	12	9	RED	ORG	GRN							
		10	RED	ORG	GRN							
		11	RED	ORG	GRN							
		28								BLK	BLU	
		B										WHT/BLK
SB11	12	16	RED/BLK	ORG/BLK	GREEN/BLK							
		18	RED	ORG	GRN							
		29								BLK	BLU	
		B										WHT/BLK

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CABLE ROUTING	SHEET NO: 226 E

FILE NAME: \\bloomserver3\X-SYNC-MKE\BM1-3054 US 45 Final Design\5_Design\03_Roads\20401400\SheetsPlan\Speedway\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 4/28/2023 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: _____ PLOT SCALE: 1:1

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	CB1

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	CB1
PB5	SB1
PB6	SB3
PB7	SB3
PB8	SB4
PB9	SB5
PB10	SB7
PB11	SB8
PB14	SB9
PB15	SB9
PB16	SB10
PB17	SB11
PB18	SB11
PB20	CB1

EMERGENCY VEHICLE	
FROM	TO
CB1	SB10 (HEAD 'A')
CB1	SB5 (HEAD 'B')
CB1	SB7 (HEAD 'C')
CB1	SB1 (HEAD 'D')

LIGHTING UF 2-10 AWG W/GROUND	
FROM	TO
CB1	SB1
SB1	SB12
SB12	SB3
CB1	SB9
SB9	SB7

VIDEO DETECTION CABLE	
FROM	TO
CB1	SB1 (V1)

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CABLE ROUTING	SHEET NO: 227	E

FILE NAME: \\bloomserver3\X-SYNC-MKE\BM1-3054 US 45 Final Design\5_Design\03_Roads\20401400\SheetsPlan\Speedway\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 4/28/2023 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: _____ PLOT SCALE: 1:1

USH 45/STH 100
FIBER OPTIC INTERCONNECT
COMMUNICATIONS OVERVIEW

N

LEGEND

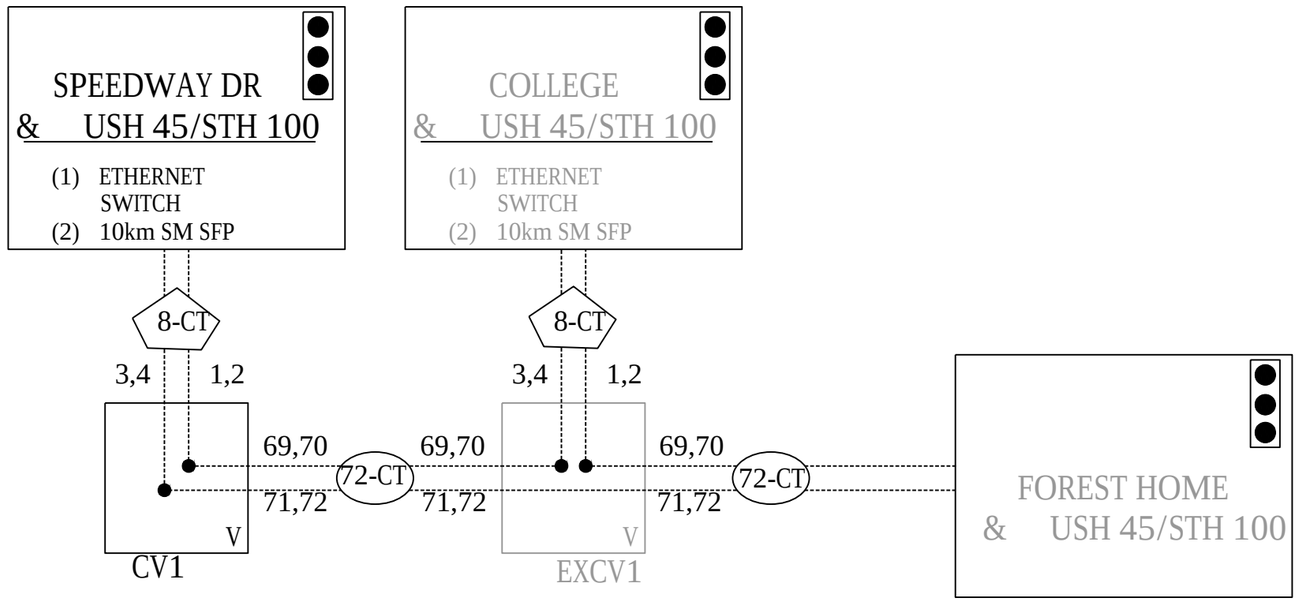
- FIBER PAIR
- FIBER OPTIC CABLE
- FACTORY TERMINATED FIBER OPTIC CABLE (200FT)-SM
- FIELD SPLICE LOCATION (FIBER PAIR)
- X,X FIBER PAIR DESIGNATION
- V COMMUNICATION SPLICE VAULT / PULL BOX

NOTES

SM = SINGLE MODE FIBER OPTIC

SFP = SMALL FORM-FACTOR PLUGGABLE

GREYSHADE REPRESENTS EXISTING,UNLESS OTHERWISE NOTED.



TRAFFIC CONTROL INTERCONNECT
USH 45/ STH100
CITY OF FRANKLIN, VILLAGE OF HALES CORNERS
MILWAUKEE COUNTY

SIGNAL NO. S40-1236 ,S40-1446

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES, LLC
REVISED BY:

PAGE 1 OF 3

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	INTERCONNECT COMMUNICATIONS OVERVIEW	SHEET 228	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024401-CR.DWG
LAYOUT NAME - 024401
PLOT DATE : 4/27/2023 2:16 PM
PLOT BY : AMBILY PANKAJ
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

R/L SPEEDWAY DR

ETHERNET SWITCH

(1) 8 CT FIBER OPTIC PIGTAIL
(1) AWG #12 TRAFFIC SIGNAL WIRE

CB1 (S30-1236)

FIBER OPTIC SPLICE (4)
FIBER OPTIC SPLICE ENCLOSURE

INSTALL 3 DUCT- 2" HDPE AND FIBER OPTIC CABLE
OUTDOOR PLANT 72-CT W/ TRACER WIRE

(1) 72-CT FIBER OPTIC CABLE
(1) AWG #12 TRAFFIC SIGNAL WIRE

F/O I/C

ICPB1

549

550

951

952

953

954

955

580

2 - 6' x 20'
3 TURNS EA

200' TO NEAR
RIGHT SIGNAL

6' x 30'
3 TURNS

330' TO NEAR
RIGHT SIGNAL

R/L USH 45

USH 45/STH 100

MATCHLINE STA 956+00

ICPB2

ICPB3

ICPB4

(1) 72-CT FIBER OPTIC CABLE
(1) AWG #12 TRAFFIC SIGNAL WIRE

INSTALL 3 DUCT - 2" HDPE AND FIBER OPTIC CABLE
OUTDOOR PLANT 72-CT W/ TRACER WIRE

R/L USH 45

USH 45/STH 100

6' x 10'
TURNS EA.

956

957

958

959

960

961

MATCHLINE STA 956+00

MATCHLINE STA 962+00

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 42"
- V — COMMUNICATION VAULT

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED. CONTACT WISDOT ELECTRICAL UNIT AT 414-266-1170 TO MAKE ARRANGEMENTS 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATION ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC INTERCONNECT PIGTAIL COILED IN EACH COMMUNICATIONS VAULT AND 30-FEET IN EACH PULL BOX.
4. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTION. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
5. 12 AWG PULL WIRE TO BE INSTALLED AS FIBER OPTIC TRACER WIRE IN INTERCONNECT CONDUIT.
6. PROPOSED PAVEMENT MARKING, PROPOSED TRAFFIC SIGNALS, AND STORM SEWER SHOWN GRAY SHADED FOR PLAN CLARITY.

TRAFFIC CONTROL INTERCONNECT
USH 45/STH 100
VILLAGE OF HALES CORNERS , CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. S40-1236,S40-1446

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES , LLC
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 229	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024402-INTER.DWG
LAYOUT NAME - 024402

PLOT DATE : 4/27/2023 2:16 PM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

FIBER OPTIC SPLICE ENCLOSURE

(1) 72-CT FIBER OPTIC CABLE
(1) AWG #12 TRAFFIC SIGNAL WIRE

INSTALL 3 DUCT - 2" HDPE AND FIBER OPTIC CABLE
OUTDOOR PLANT 72-CT W/ TRACER WIRE

USH 45/STH 100

R/L USH 45

R/L WHITNALL EDGE RD

R/L VENTURE DR

MATCHLINE STA 962+00

MATCHLINE STA 968+00

963 964 965 966 967

968 969 970 971 972 973 974

ICPB5 ICPB6 ICPB7 ICPB8 ICPB9 ICPB10

N

R/L USH 45

(1) 72-CT FIBER OPTIC CABLE
(1) AWG #12 TRAFFIC SIGNAL WIRE

INSTALL 3 DUCT - 2" HDPE AND FIBER OPTIC CABLE
OUTDOOR PLANT 72-CT W/ TRACER WIRE

MATCHLINE STA 968+00

USH 45/STH 100

TRAFFIC CONTROL INTERCONNECT
USH 45/STH 100
VILLAGE OF HALES CORNERS , CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. S40-1236,S40-1446

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: BLOOM COMPANIES, LLC
REVISED BY:

PAGE 3 OF 3

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 230	E

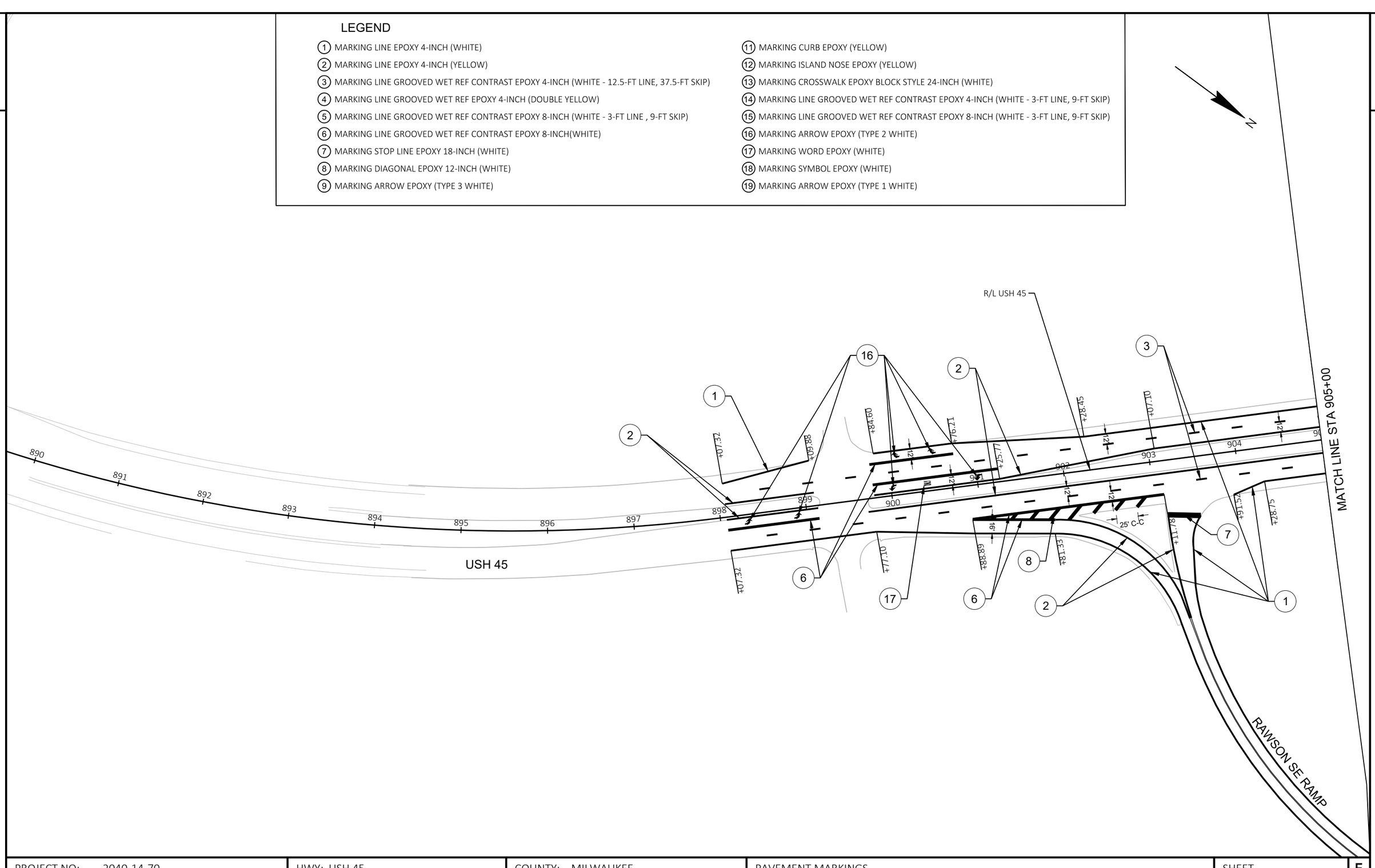
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024402-INTER.DWG
LAYOUT NAME - 024403

PLOT DATE : 4/27/2023 2:16 PM PLOT BY : AMBILY PANKAJ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

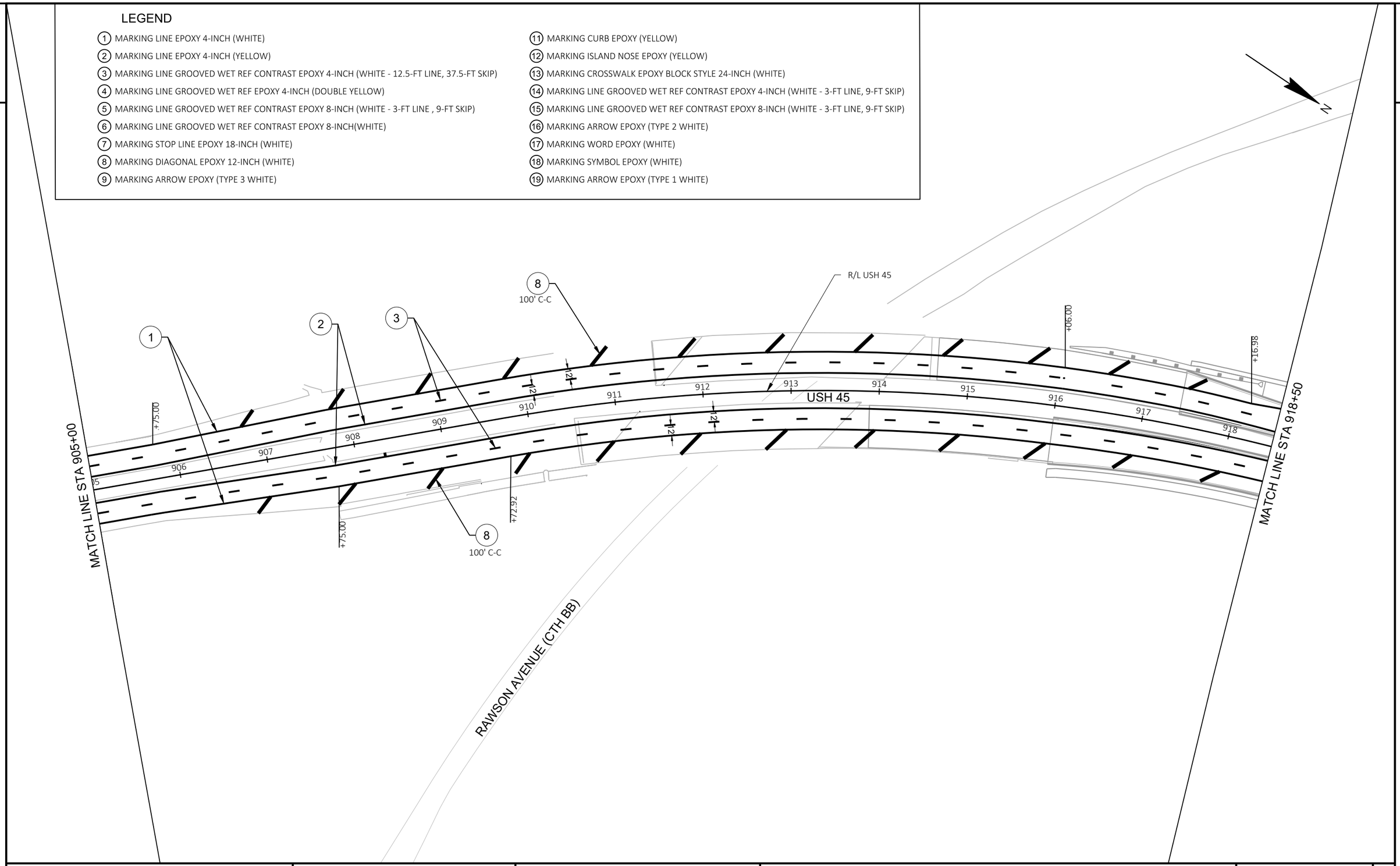
1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE , 9-FT SKIP)
6. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH(WHITE)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
9. MARKING ARROW EPOXY (TYPE 3 WHITE)
11. MARKING CURB EPOXY (YELLOW)
12. MARKING ISLAND NOSE EPOXY (YELLOW)
13. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
14. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
15. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
16. MARKING ARROW EPOXY (TYPE 2 WHITE)
17. MARKING WORD EPOXY (WHITE)
18. MARKING SYMBOL EPOXY (WHITE)
19. MARKING ARROW EPOXY (TYPE 1 WHITE)

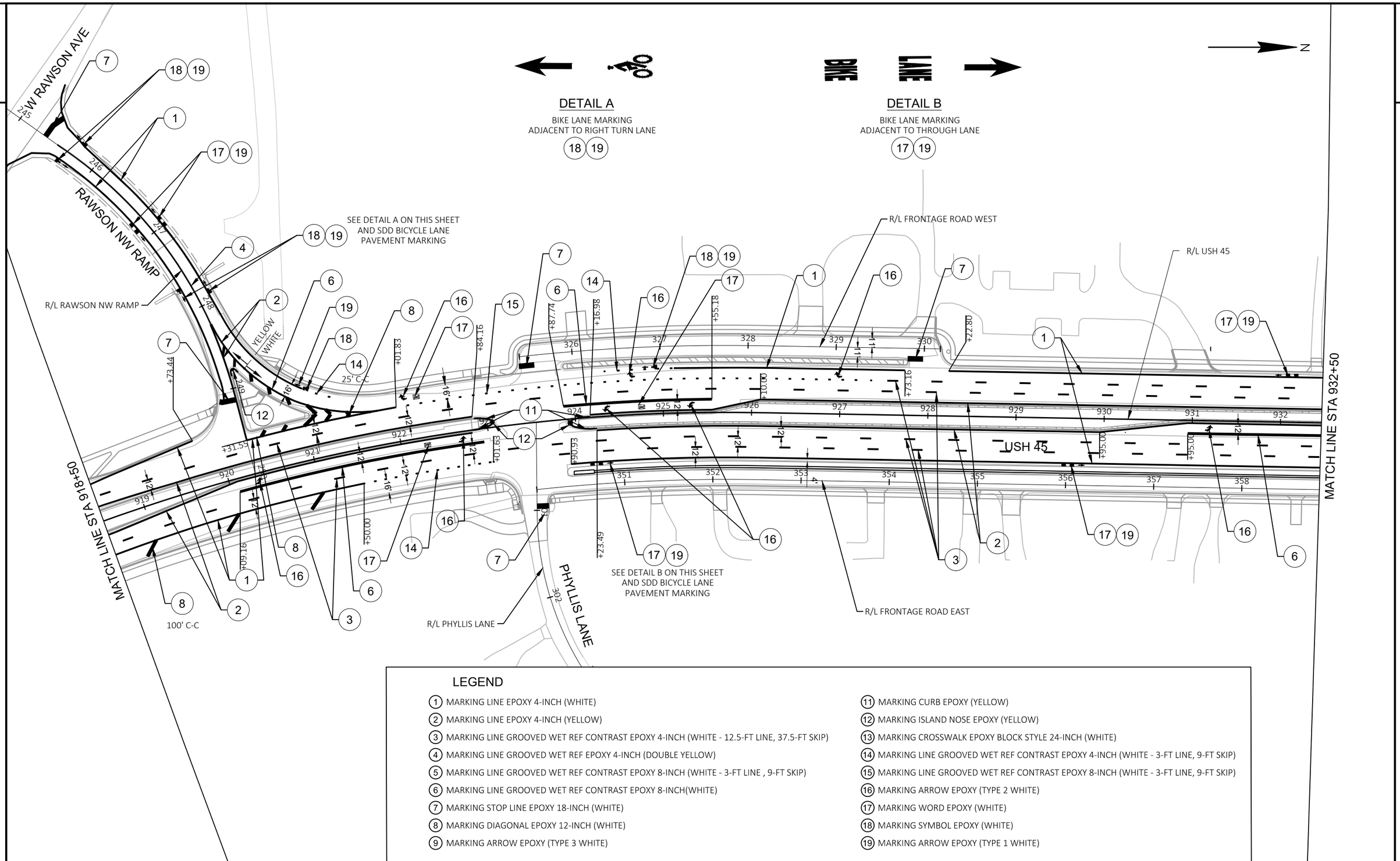


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET 231	E

LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE , 9-FT SKIP)
6. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH(WHITE)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
9. MARKING ARROW EPOXY (TYPE 3 WHITE)
11. MARKING CURB EPOXY (YELLOW)
12. MARKING ISLAND NOSE EPOXY (YELLOW)
13. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
14. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
15. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
16. MARKING ARROW EPOXY (TYPE 2 WHITE)
17. MARKING WORD EPOXY (WHITE)
18. MARKING SYMBOL EPOXY (WHITE)
19. MARKING ARROW EPOXY (TYPE 1 WHITE)





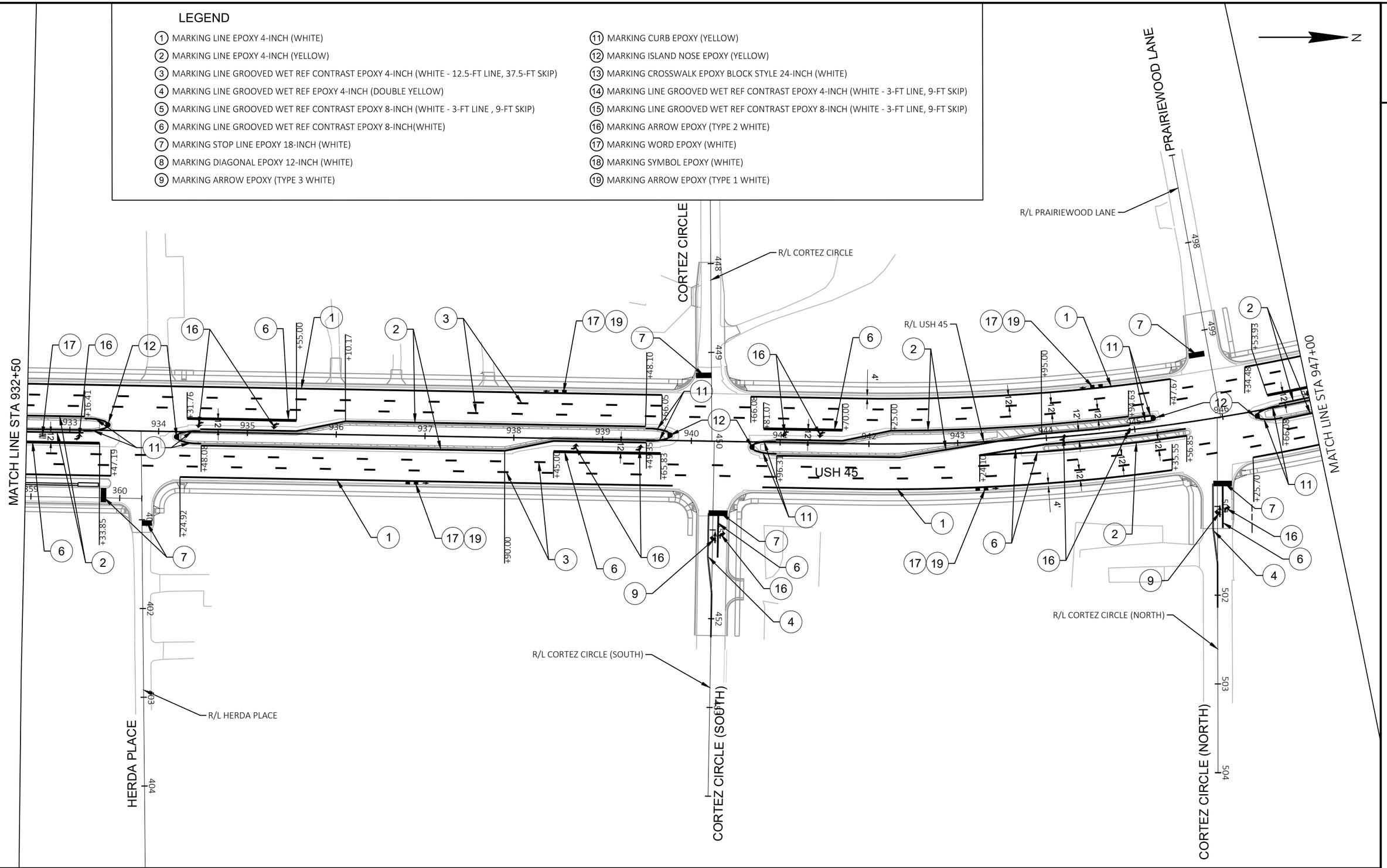
LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE , 9-FT SKIP)
6. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH(WHITE)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
9. MARKING ARROW EPOXY (TYPE 3 WHITE)
11. MARKING CURB EPOXY (YELLOW)
12. MARKING ISLAND NOSE EPOXY (YELLOW)
13. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
14. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
15. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
16. MARKING ARROW EPOXY (TYPE 2 WHITE)
17. MARKING WORD EPOXY (WHITE)
18. MARKING SYMBOL EPOXY (WHITE)
19. MARKING ARROW EPOXY (TYPE 1 WHITE)

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET 233	E

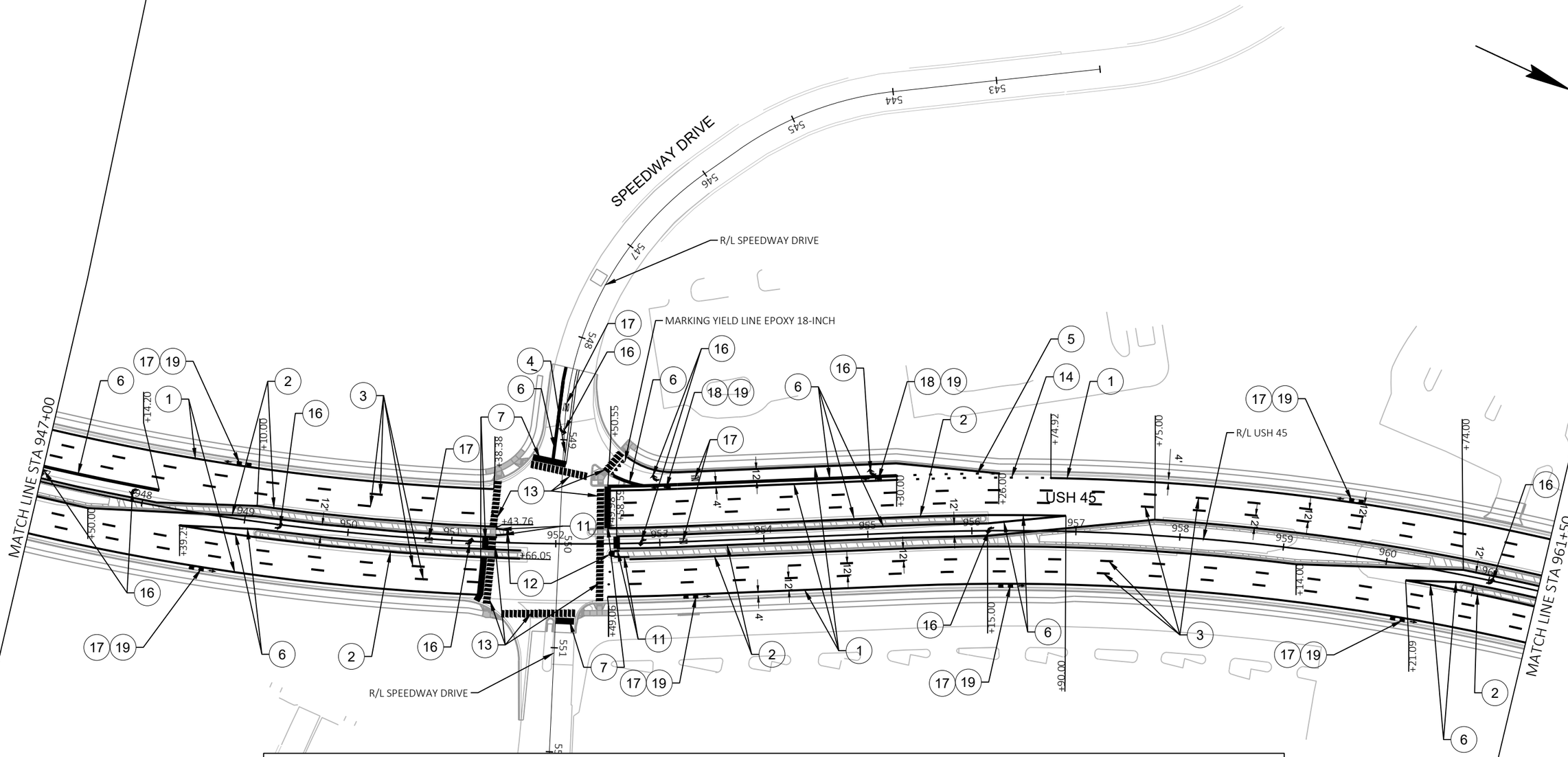
LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE , 9-FT SKIP)
6. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH(WHITE)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
9. MARKING ARROW EPOXY (TYPE 3 WHITE)
11. MARKING CURB EPOXY (YELLOW)
12. MARKING ISLAND NOSE EPOXY (YELLOW)
13. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
14. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
15. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
16. MARKING ARROW EPOXY (TYPE 2 WHITE)
17. MARKING WORD EPOXY (WHITE)
18. MARKING SYMBOL EPOXY (WHITE)
19. MARKING ARROW EPOXY (TYPE 1 WHITE)



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET 234	E

2



LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE , 9-FT SKIP)
6. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH(WHITE)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
9. MARKING ARROW EPOXY (TYPE 3 WHITE)
11. MARKING CURB EPOXY (YELLOW)
12. MARKING ISLAND NOSE EPOXY (YELLOW)
13. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
14. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
15. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
16. MARKING ARROW EPOXY (TYPE 2 WHITE)
17. MARKING WORD EPOXY (WHITE)
18. MARKING SYMBOL EPOXY (WHITE)
19. MARKING ARROW EPOXY (TYPE 1 WHITE)

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET 235	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024505
PLOT DATE : 4/28/2023 10:46 PM
PLOT BY : THOMAS LEGEAR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE , 9-FT SKIP)
6. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH(WHITE)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
9. MARKING ARROW EPOXY (TYPE 3 WHITE)
11. MARKING CURB EPOXY (YELLOW)
12. MARKING ISLAND NOSE EPOXY (YELLOW)
13. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
14. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
15. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
16. MARKING ARROW EPOXY (TYPE 2 WHITE)
17. MARKING WORD EPOXY (WHITE)
18. MARKING SYMBOL EPOXY (WHITE)
19. MARKING ARROW EPOXY (TYPE 1 WHITE)

N

MATCH LINE STA 961+50

MATCH LINE STA 975+50

R/L USH 45

USH 45

R/L WHITNALL EDGE ROAD

R/L VENTURE DRIVE

WHITNALL EDGE ROAD

VENTURE DRIVE

COLLEGE AVENUE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET 236	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024506

PLOT DATE : 4/28/2023 10:46 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

KELM ROAD

MATCH LINE STA 975+50

USH 45

R/L USH 45

+98.83

+98.67

+87.23

+86.88

+86.65

KAY PKWY

LEGEND

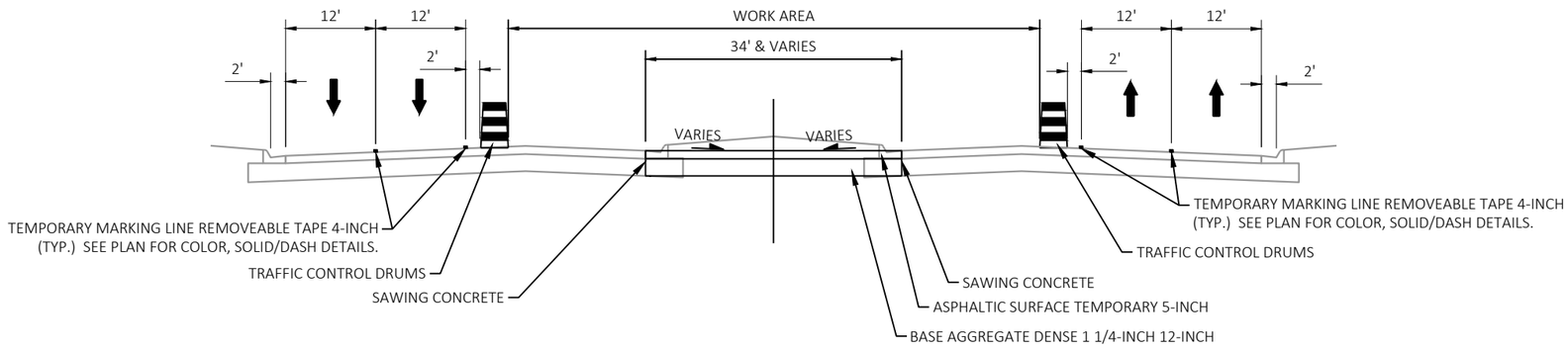
1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE , 9-FT SKIP)
6. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH(WHITE)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
9. MARKING ARROW EPOXY (TYPE 3 WHITE)
11. MARKING CURB EPOXY (YELLOW)
12. MARKING ISLAND NOSE EPOXY (YELLOW)
13. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
14. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
15. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
16. MARKING ARROW EPOXY (TYPE 2 WHITE)
17. MARKING WORD EPOXY (WHITE)
18. MARKING SYMBOL EPOXY (WHITE)
19. MARKING ARROW EPOXY (TYPE 1 WHITE)

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET 237	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024507
PLOT DATE : 4/28/2023 10:46 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

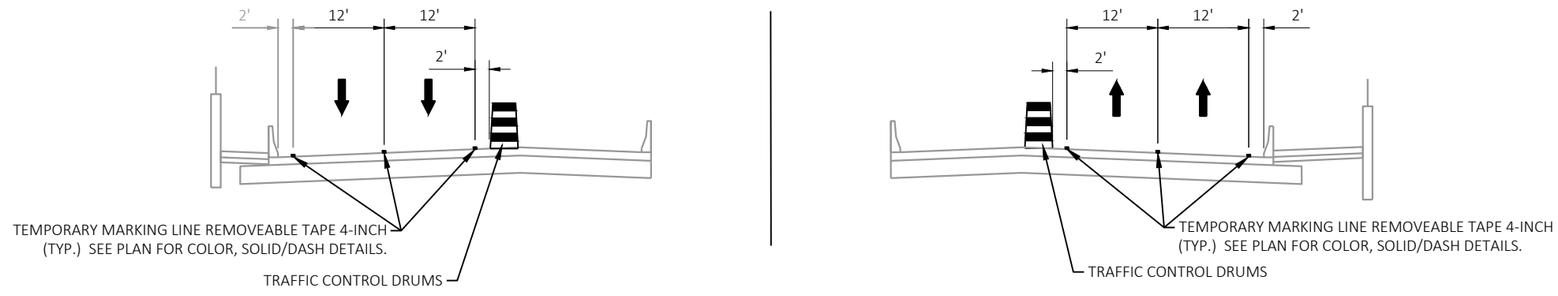
R/L
USH 45



STAGE 1 TYPICAL SECTION
USH 45

SOUTHERN CROSSOVER
STA 906+00 TO STA 910+22

R/L
USH 45

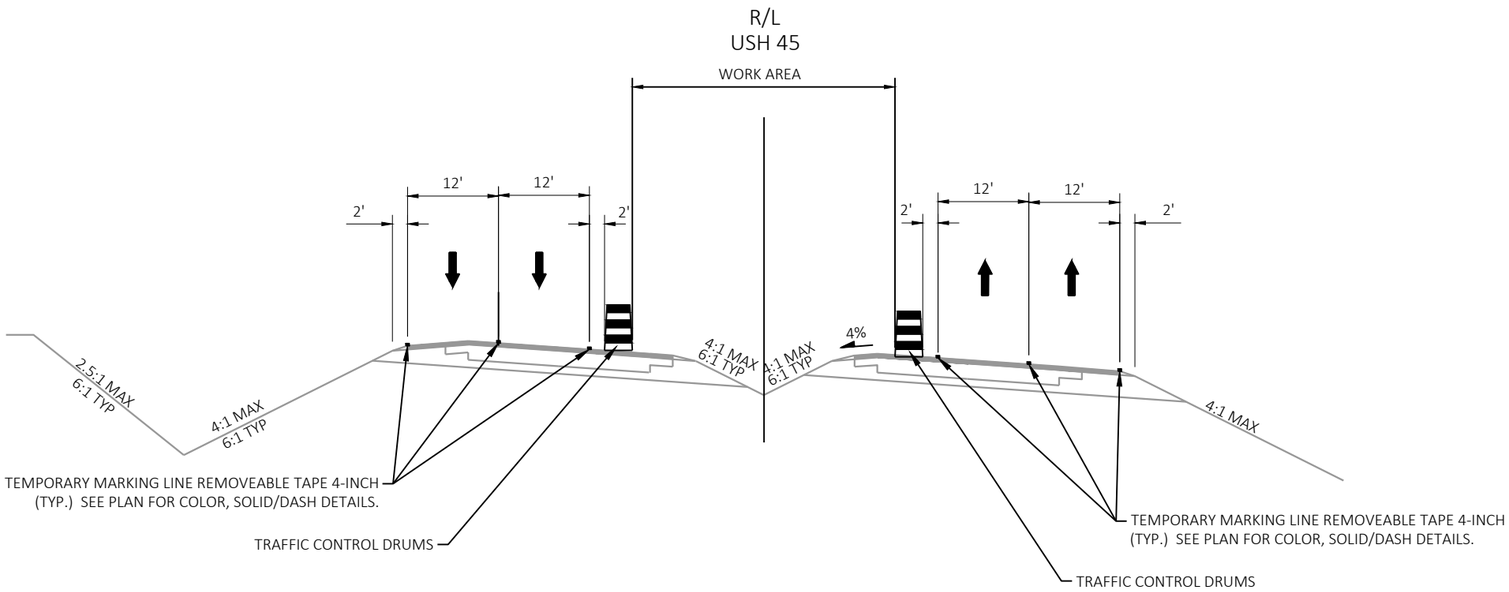


STAGE 1 TYPICAL SECTION
USH 45

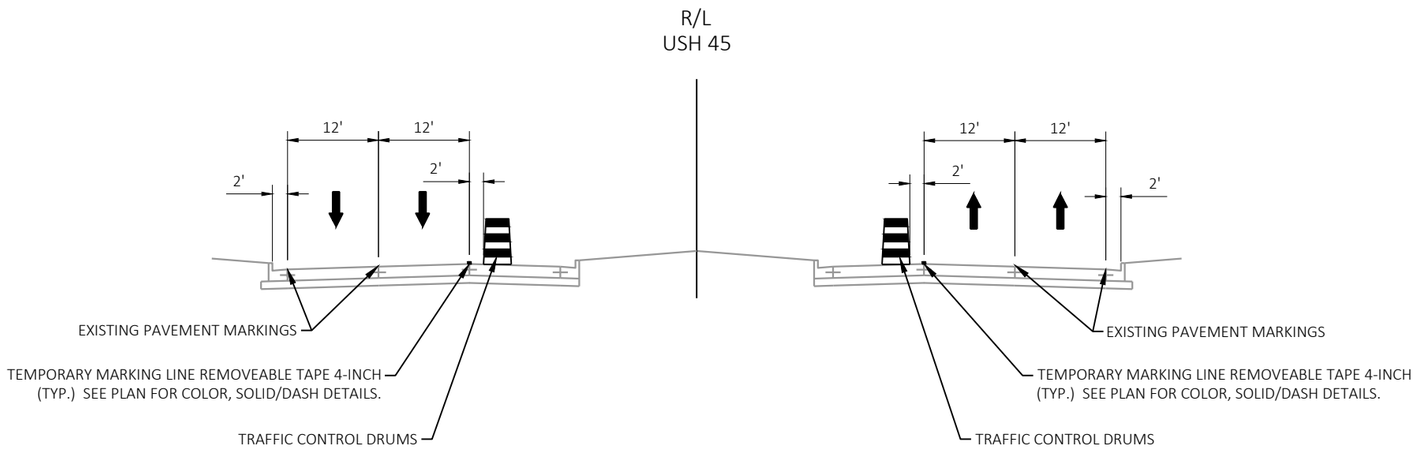
BRIDGE SECTION
STA 910+22 TO STA 914+50

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 1	SHEET 238	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\025100-TC.DWG
LAYOUT NAME - 025101
PLOT DATE : 4/28/2023 10:52 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



STAGE 1 TYPICAL SECTION
USH 45
STA 914+50 TO STA 923+11

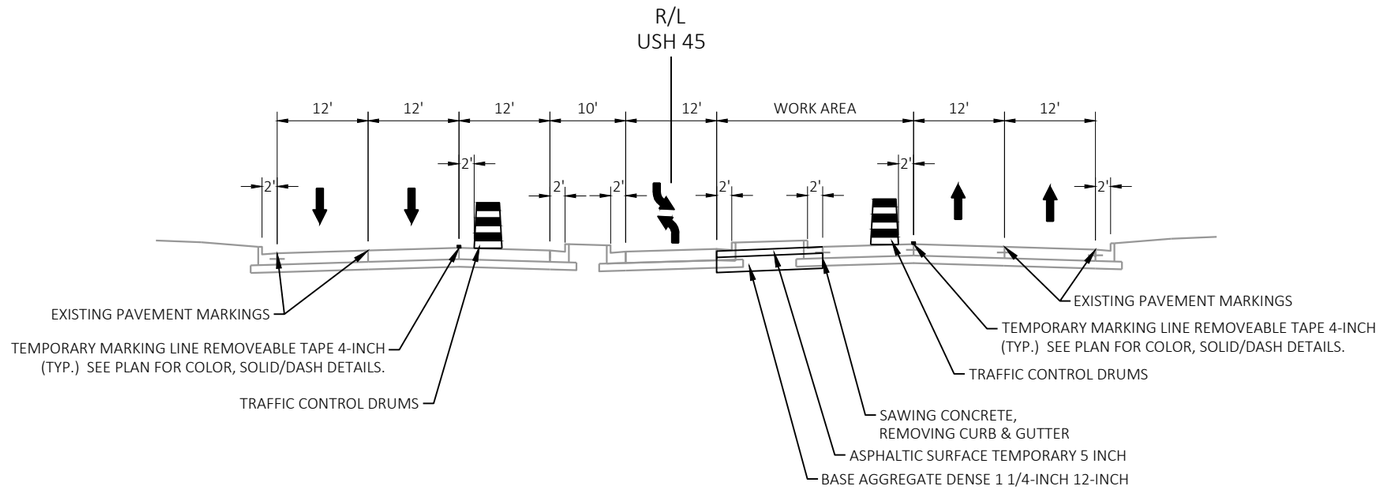


STAGE 1 TYPICAL SECTION
USH 45
STA 923+11 TO STA 949+15

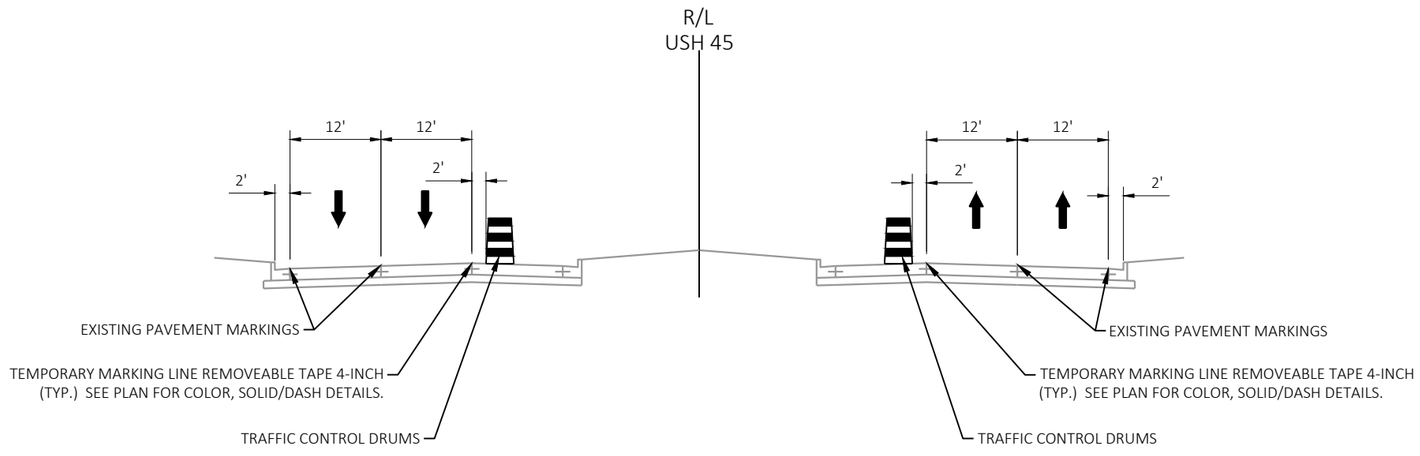
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 1	SHEET 239	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\025100-TC.DWG
LAYOUT NAME - 025102
PLOT DATE : 4/28/2023 10:52 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:20 FT

2



STAGE 1 TYPICAL SECTION
USH 45
SPEEDWAY DRIVE
STA 949+15 TO STA 956+05

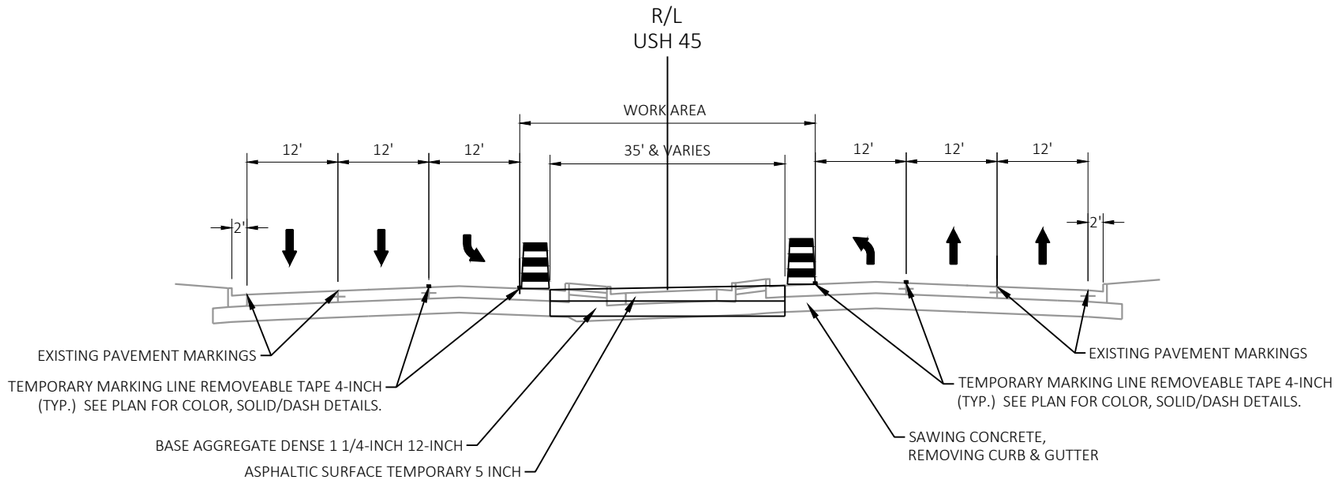


STAGE 1 TYPICAL SECTION
USH 45
STA 956+05 TO STA 967+00

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 1	SHEET 240	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\025100-TC.DWG
LAYOUT NAME - 025103
PLOT DATE : 4/28/2023 10:52 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

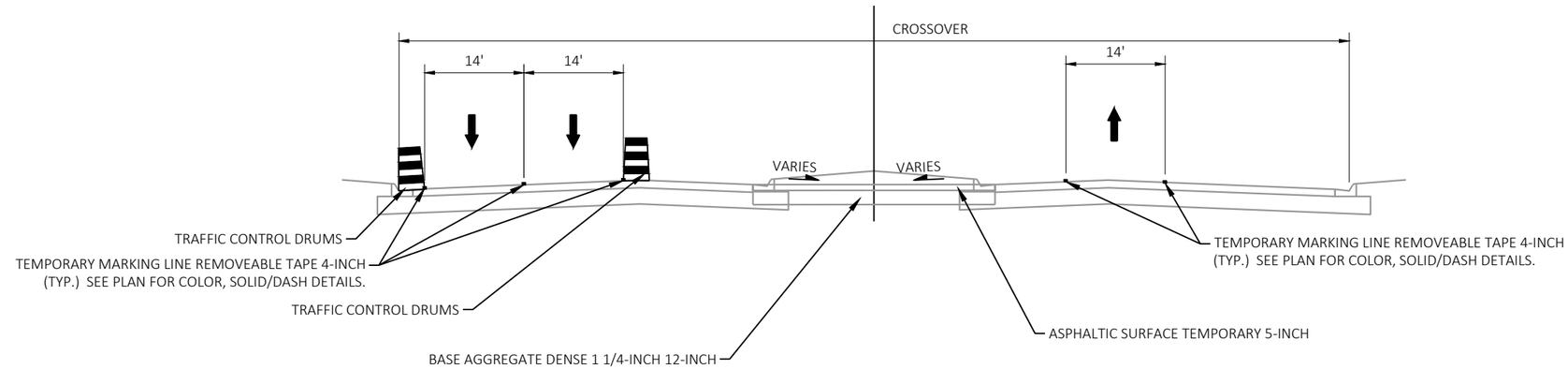


STAGE 1 TYPICAL SECTION
USH 45

NORTHERN CROSSOVER
STA 967+00 TO STA 972+50

2

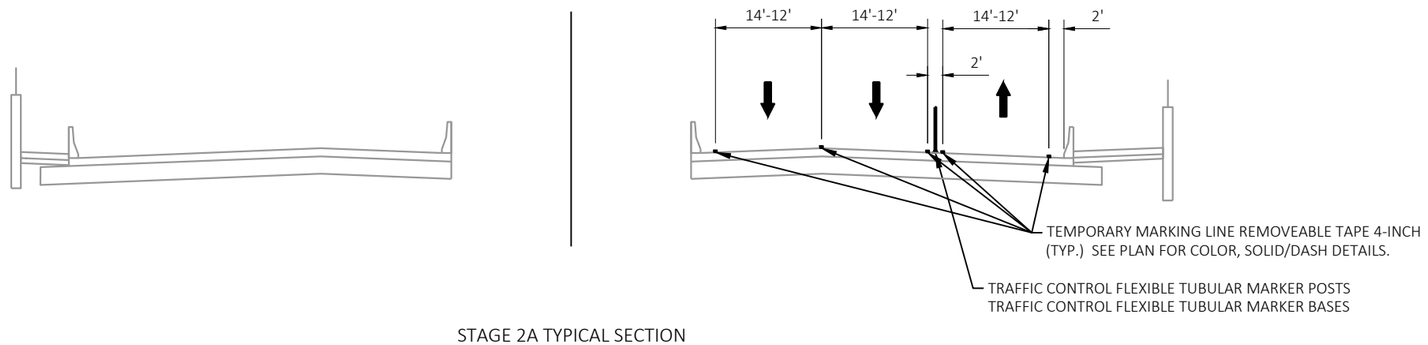
R/L
USH 45



STAGE 2A TYPICAL SECTION
USH 45

SOUTHERN CROSSOVER
STA 906+00 TO STA 910+22

R/L
USH 45

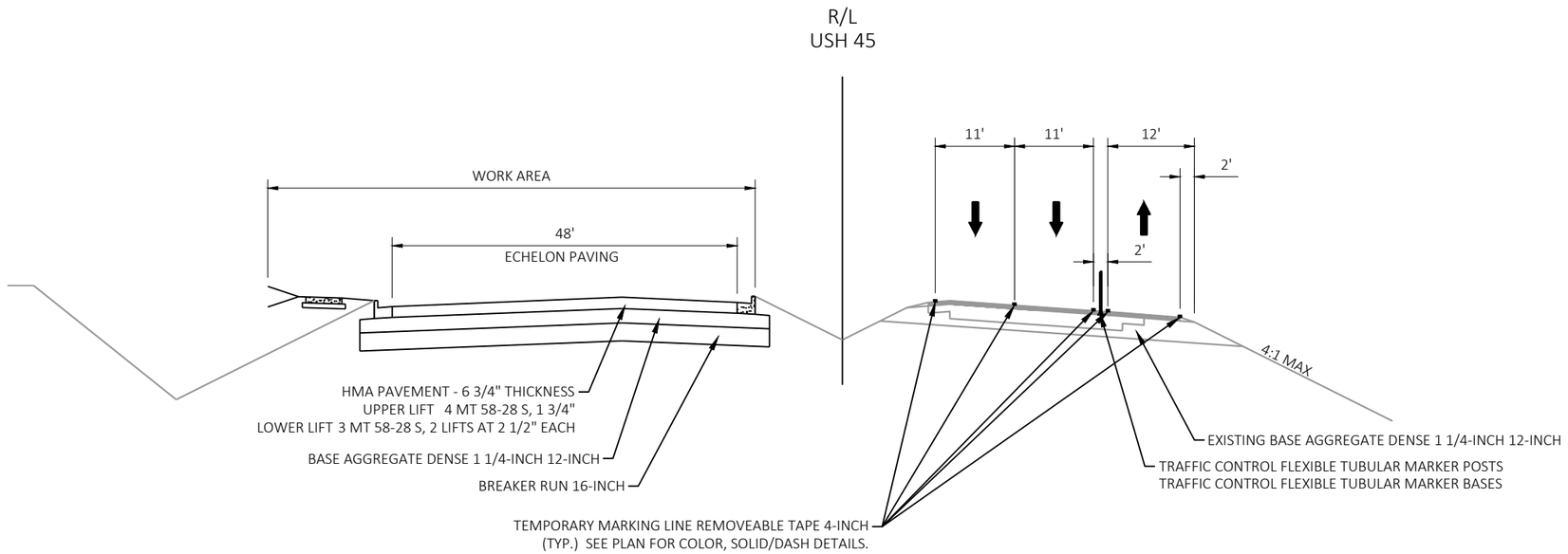


STAGE 2A TYPICAL SECTION
USH 45

BRIDGE SECTION
STA 910+22 TO STA 914+50

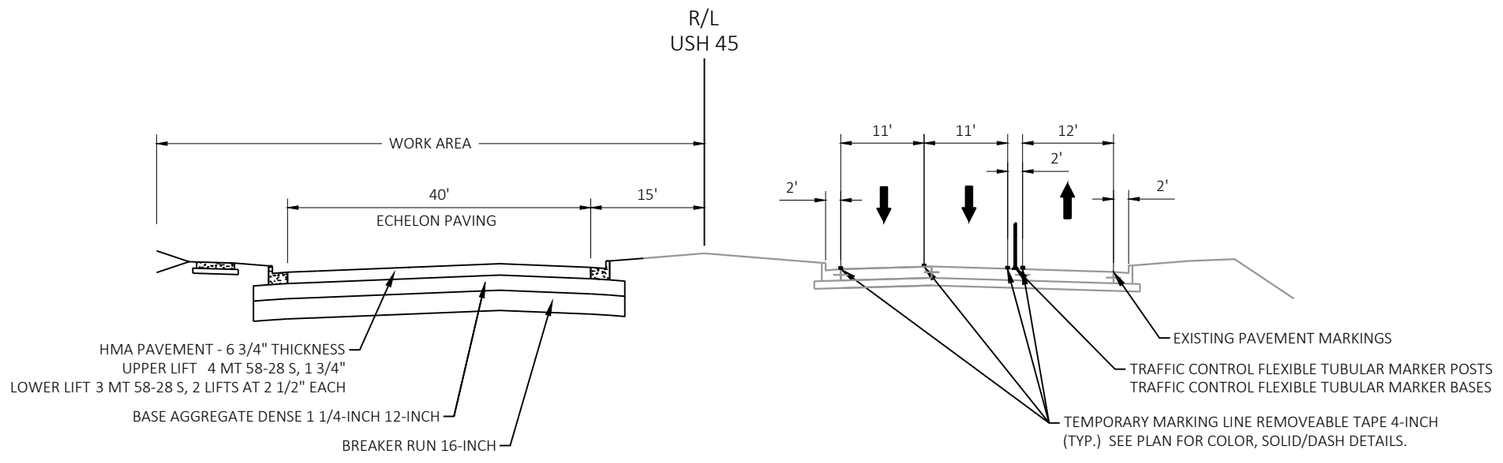
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 2A	SHEET 242	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\025100-TC.DWG
LAYOUT NAME - 025105
PLOT DATE : 4/28/2023 10:52 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



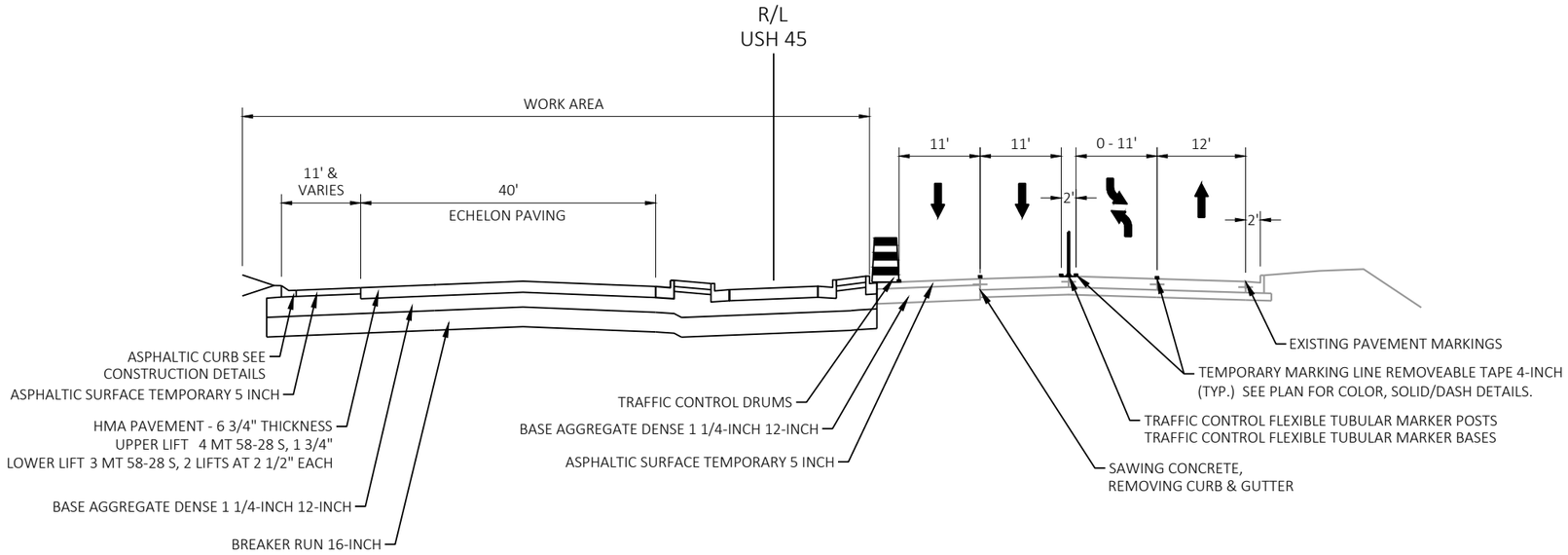
STAGE 2A TYPICAL SECTION
USH 45

STA 914+50 TO STA 923+11



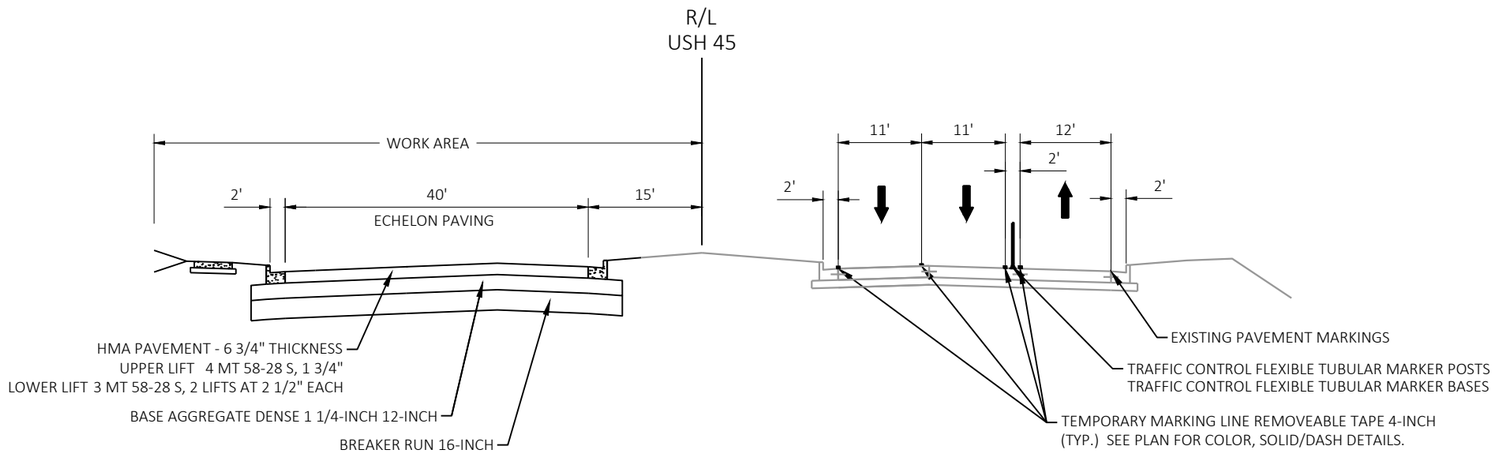
STAGE 2A TYPICAL SECTION
USH 45

STA 923+11 TO STA 949+15



STAGE 2A TYPICAL SECTION
USH 45

SPEEDWAY DRIVE
STA 949+15 TO STA 956+05

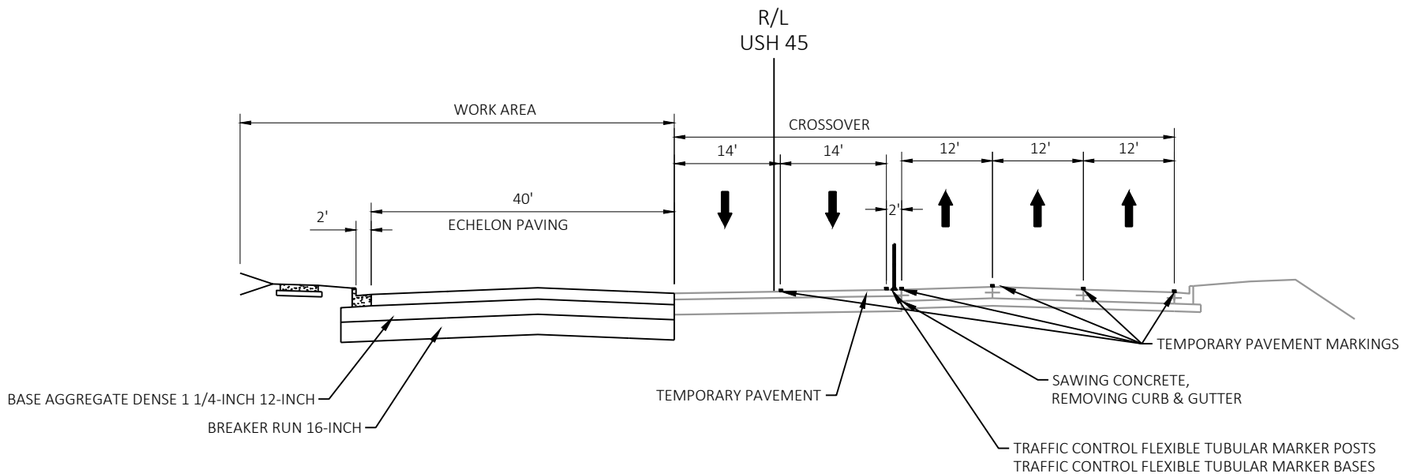


STAGE 2A TYPICAL SECTION
USH 45

STA 956+05 TO STA 967+00

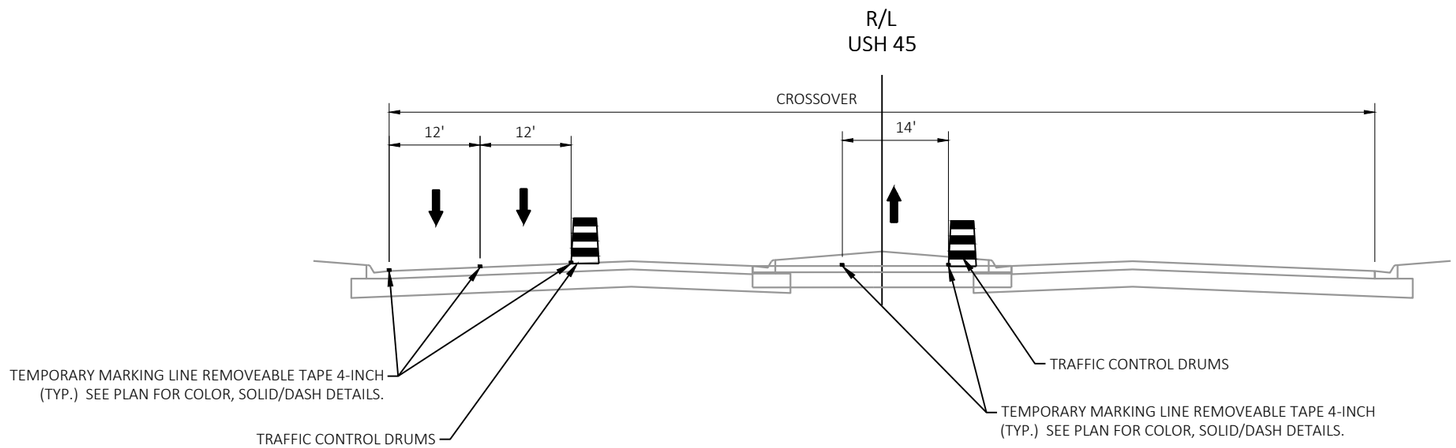
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 3A	SHEET 244	E

2



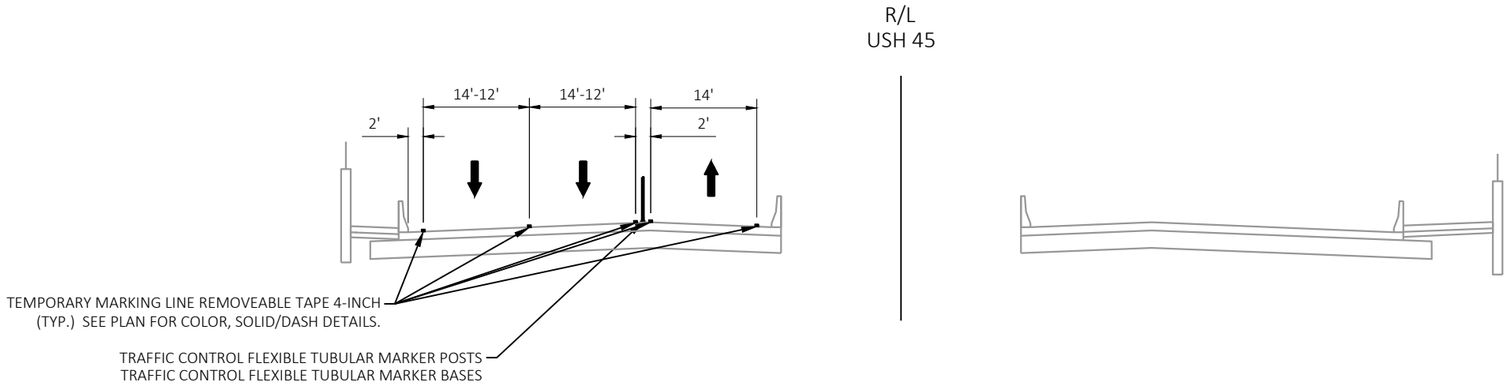
STAGE 2A TYPICAL SECTION
USH 45

NORTHERN CROSSOVER
STA 967+00 TO STA 972+50
SECTION SHOWN NORTH OF CROSSOVER



STAGE 3A TYPICAL SECTION
USH 45

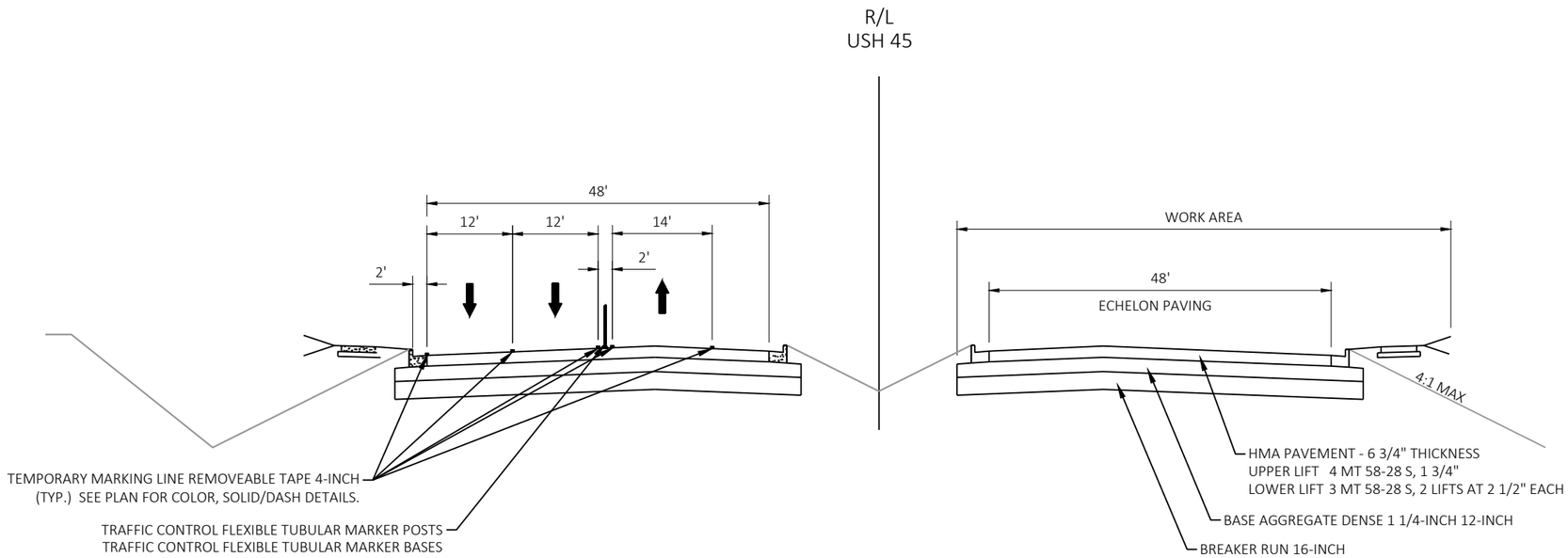
SOUTHERN CROSSOVER
STA 906+00 TO STA 910+22



STAGE 3A TYPICAL SECTION
USH 45

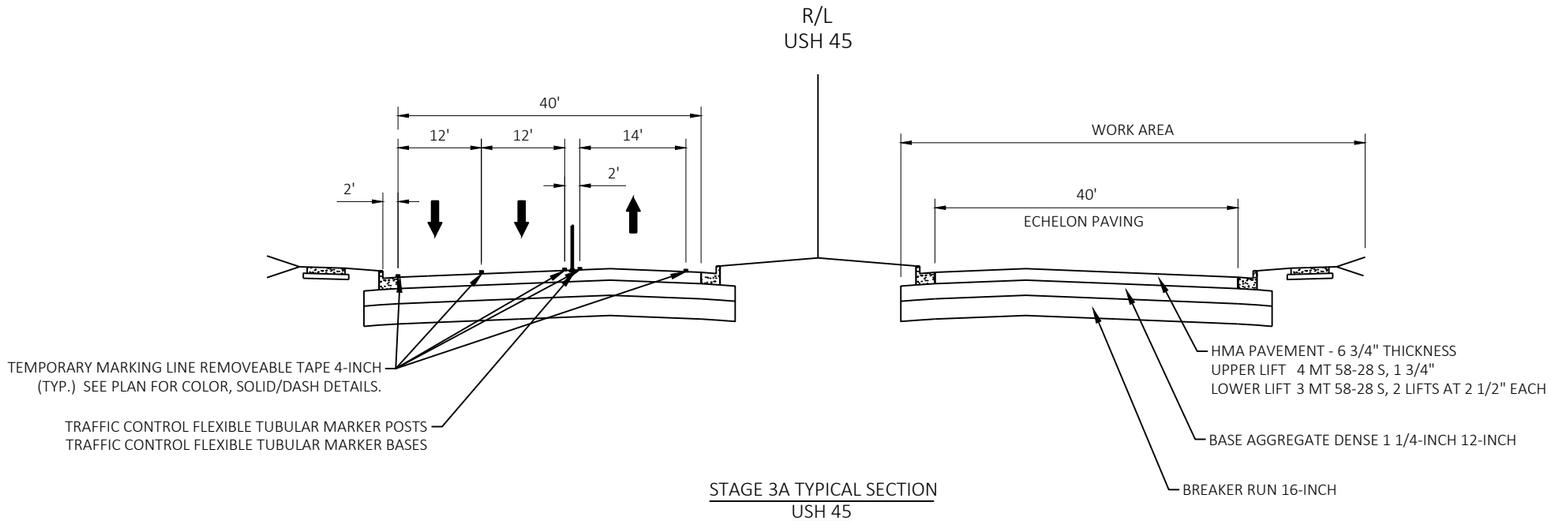
BRIDGE SECTION
STA 910+22 TO STA 914+50

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 4	SHEET 246	E



STAGE 3A TYPICAL SECTION
USH 45

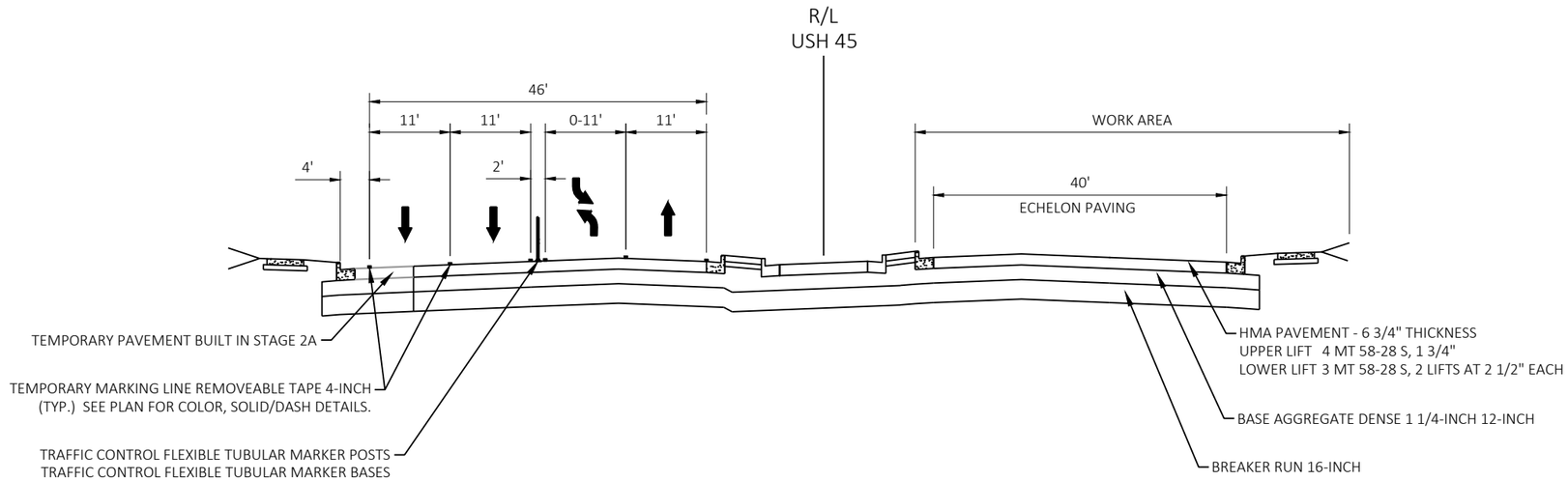
STA 914+50 TO STA 923+11



STAGE 3A TYPICAL SECTION
USH 45

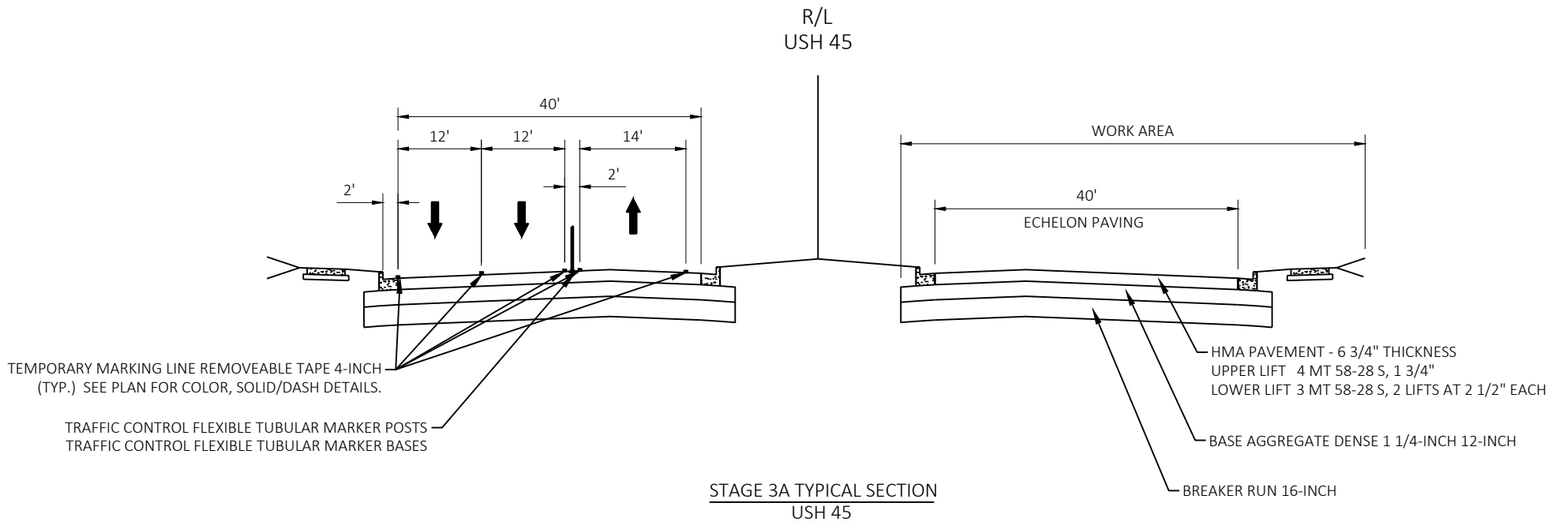
STA 923+11 TO STA 949+15

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 4	SHEET 247	E



STAGE 3A TYPICAL SECTION
USH 45

SPEEDWAY DRIVE
STA 949+15 TO STA 956+05

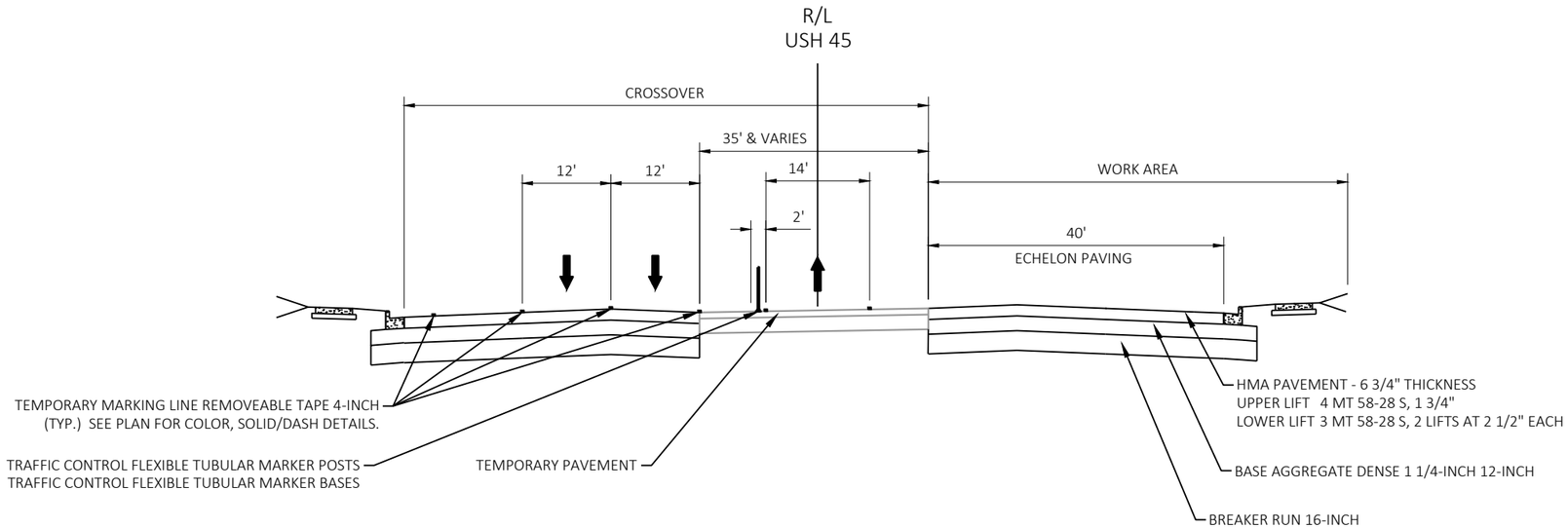


STAGE 3A TYPICAL SECTION
USH 45

STA 956+05 TO STA 967+00

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 4	SHEET 248	E

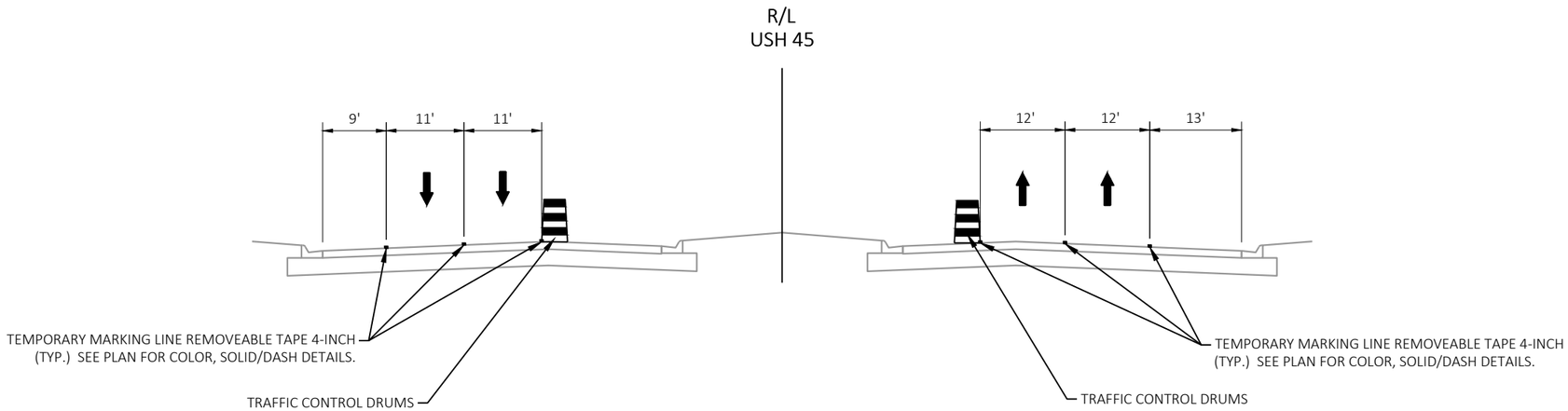
2



STAGE 3A TYPICAL SECTION
USH 45

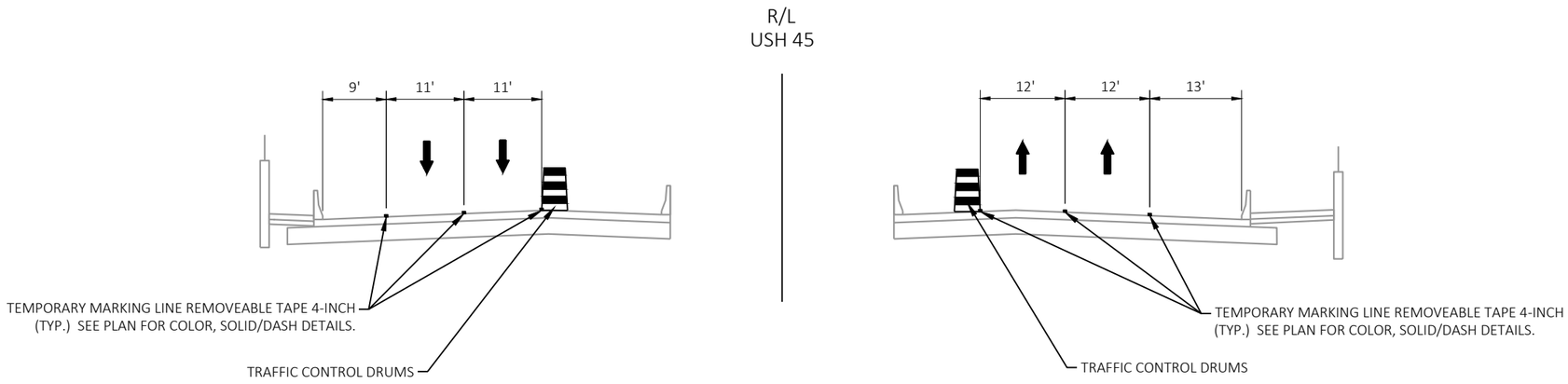
NORTHERN CROSSOVER
STA 967+00 TO STA 972+50

2



STAGE 4 TYPICAL SECTION
USH 45

SOUTHERN CROSSOVER
STA 906+00 TO STA 910+22

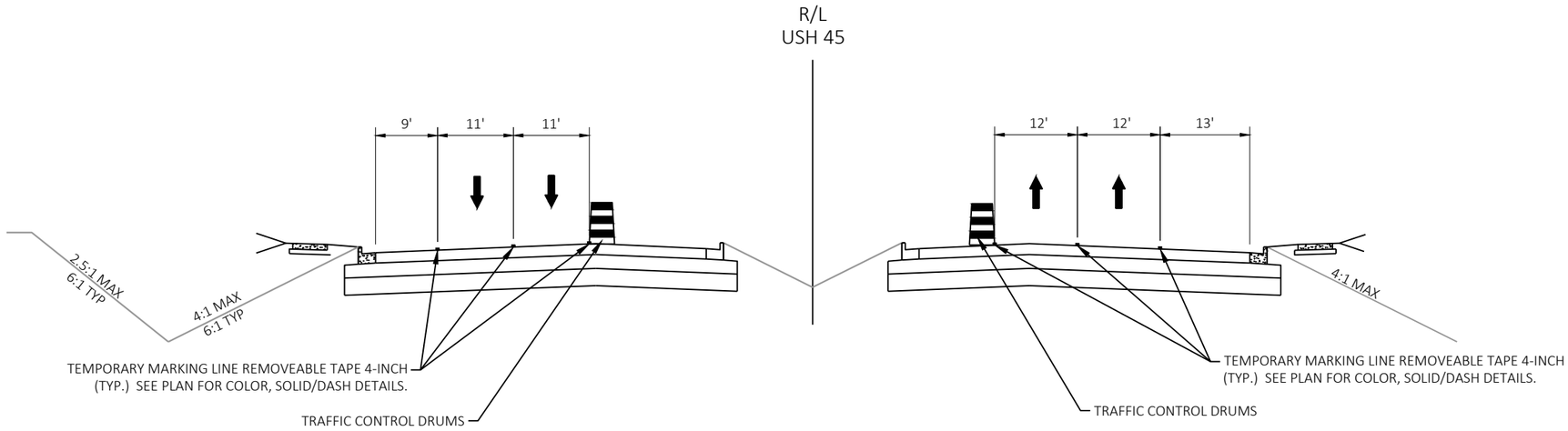


STAGE 4 TYPICAL SECTION
USH 45

BRIDGE SECTION
STA 910+22 TO STA 914+50

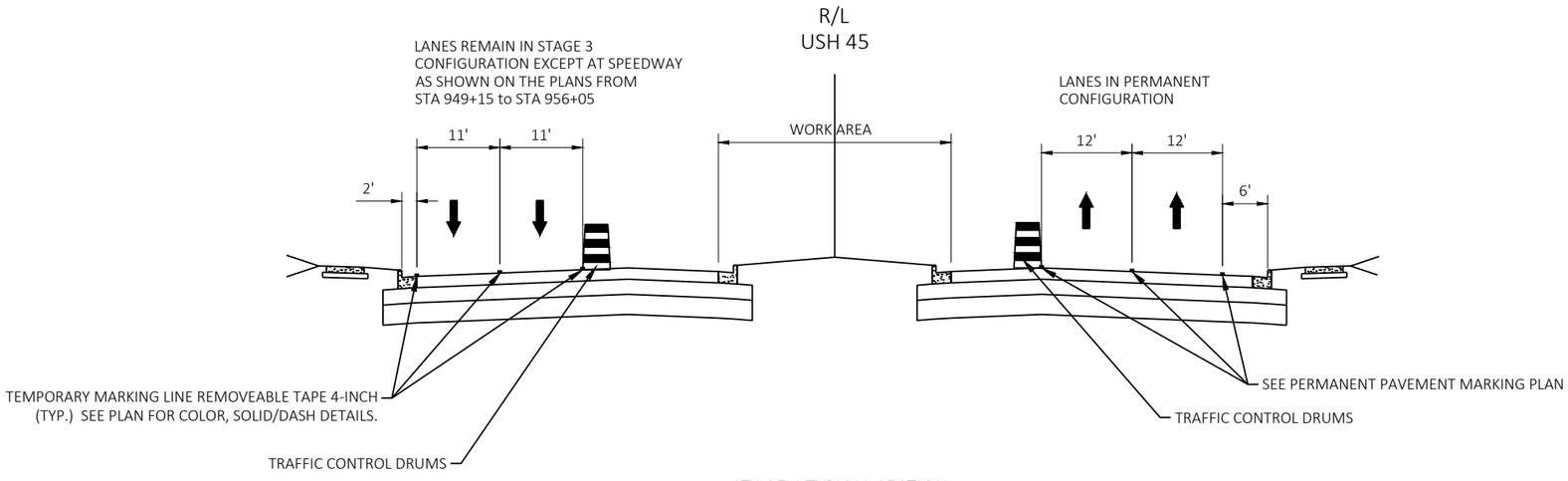
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 4	SHEET 250	E

2



STAGE 4 TYPICAL SECTION
USH 45

STA 914+50 TO STA 923+11



STAGE 4 TYPICAL SECTION
USH 45

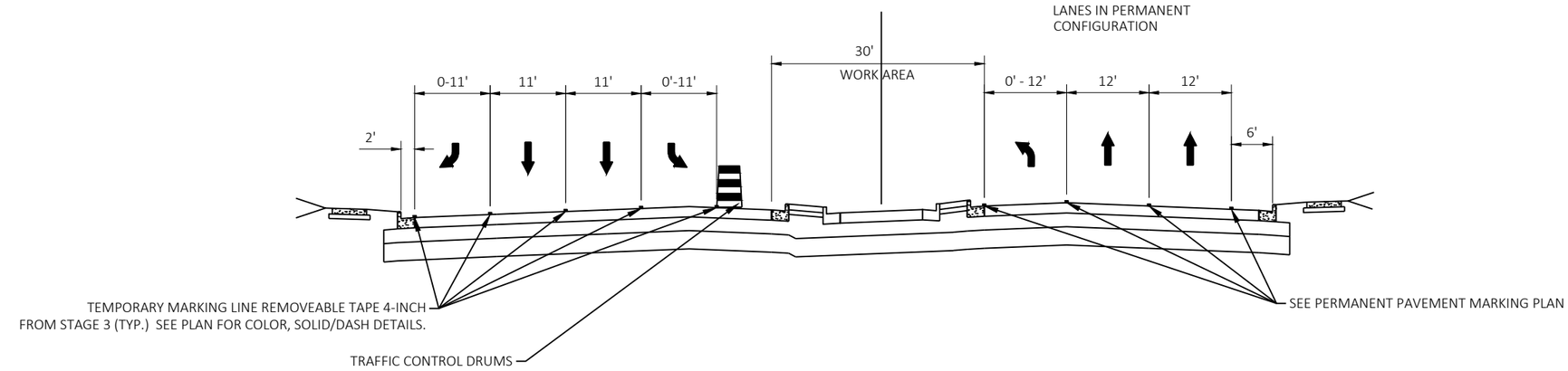
STA 923+11 TO STA 949+15

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 4	SHEET 251	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\025100-TC.DWG
LAYOUT NAME - 025114
PLOT DATE : 4/28/2023 10:52 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

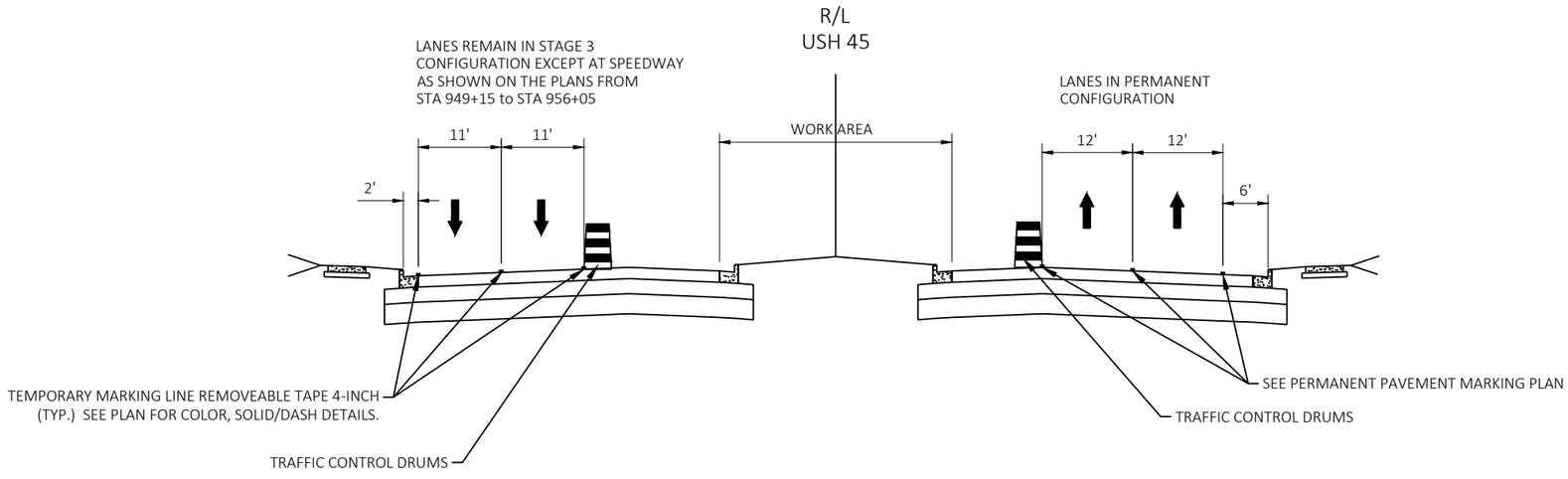
R/L
USH 45



STAGE 4 TYPICAL SECTION
USH 45

SPEEDWAY DRIVE
STA 949+15 TO STA 956+05

R/L
USH 45



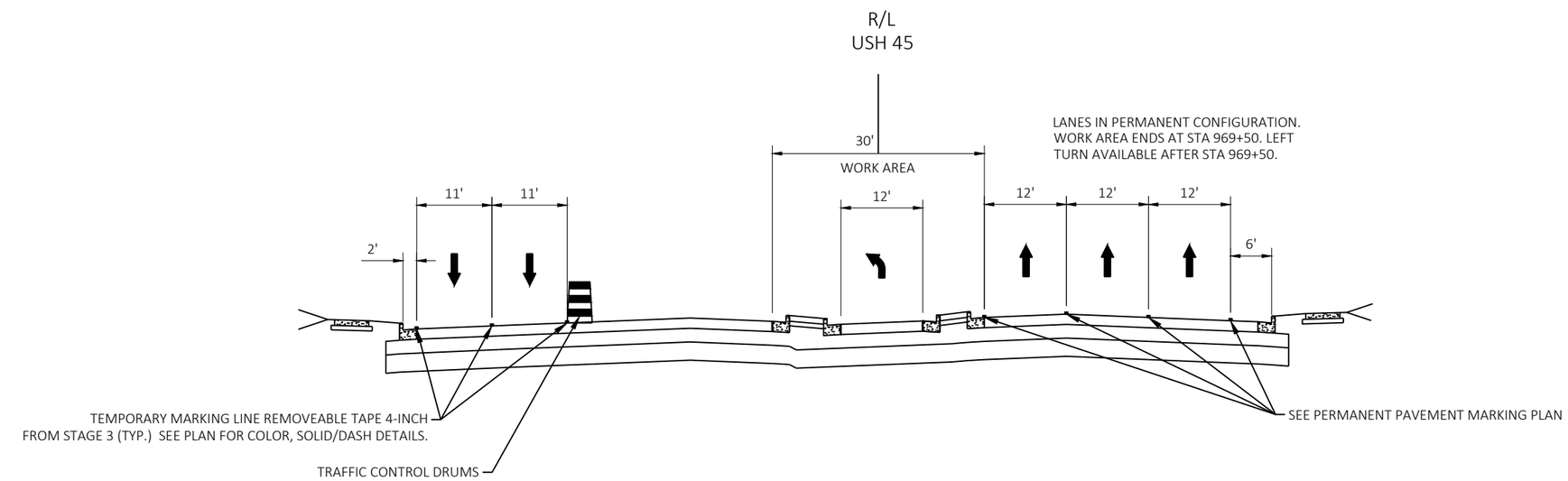
STAGE 4 TYPICAL SECTION
USH 45

STA 956+05 TO STA 967+00

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS STAGE 4	SHEET 252	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\025100-TC.DWG
LAYOUT NAME - 025115
PLOT DATE : 4/28/2023 10:52 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2



STAGE 4 TYPICAL SECTION
USH 45

NORTHERN CROSSOVER
STA 967+00 TO STA 972+50

STAGE 1

CONSTRUCTION

- INSTALL TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE 1.
- REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE 1 TRAFFIC CONTROL.
- REMOVE PORTIONS OF THE USH 45 MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT AS SHOWN IN THE PLANS.
- CONSTRUCT TEMPORARY STORM SEWER FOR STAGE 2 AS SHOWN IN THE PLANS.
- CONSTRUCT TWO MEDIAN TEMPORARY CROSSOVERS FOR USE IN STAGE 2 AS SHOWN IN THE PLANS.
- BEGIN CONSTRUCTION OF STORM WATER DETENTION POND SO THAT IT CAN RECEIVE DISCHARGE OF PROPOSED STORM SEWER PIPE CONSTRUCTED IN STAGE 2. CONSTRUCTION OF POND REQUIRES THAT TREES ARE REMOVED AND GRUBBED. GRUBBING RESTRICTED TO DATES SPECIFIED IN SPECIAL PROVISIONS. TREES TO BE REMOVED BY OTHERS.
- PLACE EROSION CONTROL DEVICES AND FINISHING ITEMS THAT PERTAIN TO STAGE 1 CONSTRUCTION.

TRAFFIC

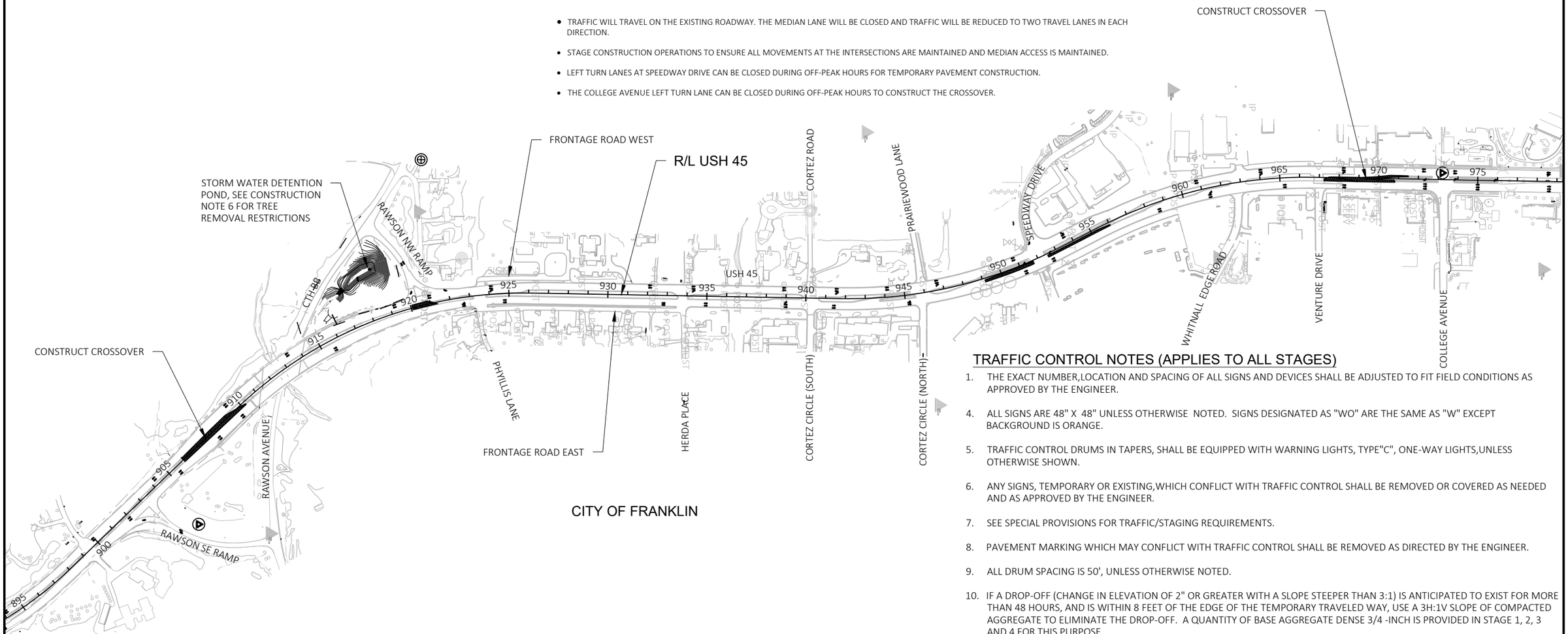
- TRAFFIC WILL TRAVEL ON THE EXISTING ROADWAY. THE MEDIAN LANE WILL BE CLOSED AND TRAFFIC WILL BE REDUCED TO TWO TRAVEL LANES IN EACH DIRECTION.
- STAGE CONSTRUCTION OPERATIONS TO ENSURE ALL MOVEMENTS AT THE INTERSECTIONS ARE MAINTAINED AND MEDIAN ACCESS IS MAINTAINED.
- LEFT TURN LANES AT SPEEDWAY DRIVE CAN BE CLOSED DURING OFF-PEAK HOURS FOR TEMPORARY PAVEMENT CONSTRUCTION.
- THE COLLEGE AVENUE LEFT TURN LANE CAN BE CLOSED DURING OFF-PEAK HOURS TO CONSTRUCT THE CROSSOVER.

LEGEND

N

WORK AREA

DIRECTION OF TRAFFIC



CITY OF FRANKLIN

TRAFFIC CONTROL NOTES (APPLIES TO ALL STAGES)

1. THE EXACT NUMBER,LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
4. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. SIGNS DESIGNATED AS "WO" ARE THE SAME AS "W" EXCEPT BACKGROUND IS ORANGE.
5. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE"C", ONE-WAY LIGHTS,UNLESS OTHERWISE SHOWN.
6. ANY SIGNS, TEMPORARY OR EXISTING,WHICH CONFLICT WITH TRAFFIC CONTROL SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
7. SEE SPECIAL PROVISIONS FOR TRAFFIC/STAGING REQUIREMENTS.
8. PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
9. ALL DRUM SPACING IS 50', UNLESS OTHERWISE NOTED.
10. IF A DROP-OFF (CHANGE IN ELEVATION OF 2" OR GREATER WITH A SLOPE STEEPER THAN 3:1) IS ANTICIPATED TO EXIST FOR MORE THAN 48 HOURS, AND IS WITHIN 8 FEET OF THE EDGE OF THE TEMPORARY TRAVELED WAY, USE A 3H:1V SLOPE OF COMPACTED AGGREGATE TO ELIMINATE THE DROP-OFF. A QUANTITY OF BASE AGGREGATE DENSE 3/4 -INCH IS PROVIDED IN STAGE 1, 2, 3 AND 4 FOR THIS PURPOSE.

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 OVERVIEW	SHEET 254	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026000-S1.DWG
LAYOUT NAME - 026000_s1
PLOT DATE : 4/28/2023 10:58 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- (XXXX) FOR POINT DATA, SEE SHEET AFTER PLANS
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- [MB] PORTABLE CHANGEABLE MESSAGE BOARD

- [1] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- [2] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- [3] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- [4] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- [5] TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- [6] TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- [7] TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- [8] TEMPORARY MARKING ARROW PAINT (WHITE)
- [9] TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- [10] TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- [EPM] EXISTING PAVEMENT MARKING

500' AFTER SB WORK AREA

END ROAD WORK
G20-2A
48"X24"

R/L USH 45

890 891 892 893 894 895 896 897 898 899 900 901 902 903 904

50' TYP.

50' TYP.

12' 12' 12'

MATCH LINE STA 905+00

PCMS

SPEED LIMIT 50 (X)

WRONG WAY

BEGIN LEFT TURN LANE

Rawson Ave
7100 S

STOP

COUNTY BB

WRONG WAY

COUNTY BB

DO NOT ENTER

WRONG WAY

DO NOT ENTER

BEGIN LEFT TURN LANE

DO NOT ENTER

ONE WAY

STOP

STOP

NORTH 45 100

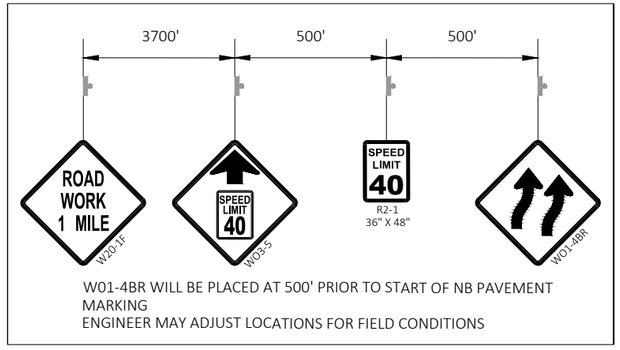
1 2 3 3

PLACE SIGN 500' PRIOR TO WORK AREA ALONG RAWSON SE RAMP

ROAD WORK AHEAD
W20-1A

RAWSON SE RAMP

DETAIL A



W01-4BR WILL BE PLACED AT 500' PRIOR TO START OF NB PAVEMENT MARKING
ENGINEER MAY ADJUST LOCATIONS FOR FIELD CONDITIONS

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 255	E

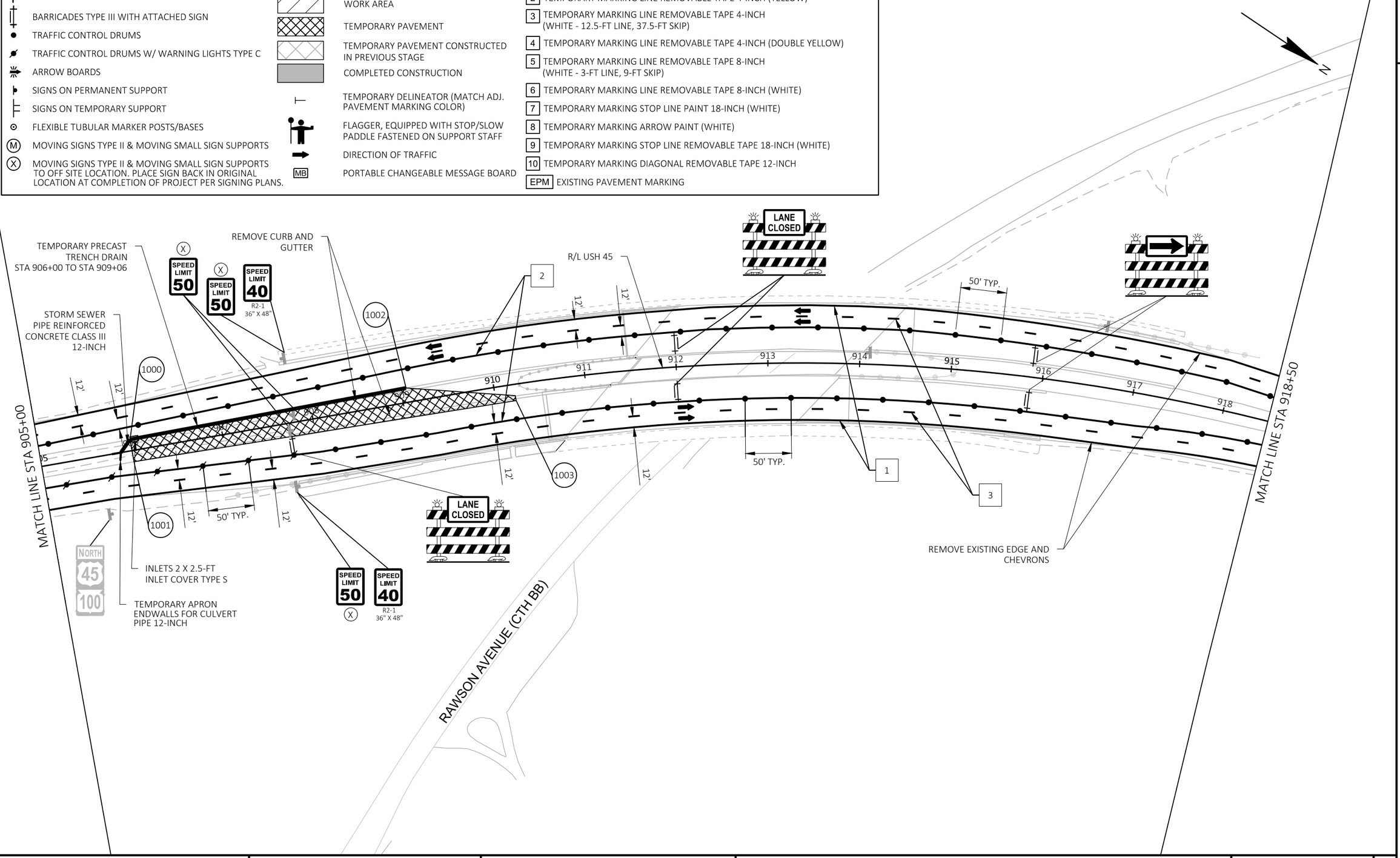
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 026001-S1
PLOT DATE : 5/31/2023 1:40 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- (XXXX) FOR POINT DATA, SEE SHEET AFTER PLANS
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 256	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 026002-S1
PLOT DATE : 5/31/2023 1:40 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

END ROADWORK SIGN PLACED 500' NB AND SB OF RAWSON AVE AND RAWSON NW RAMP INTERSECTION

END ROAD WORK G20-2A 48"X24"

RAWSON AVE

END ROAD WORK G20-2A 48"X24"

R/L RAWSON NW RAMP

135 LF CULVERT PIPE TEMPORARY 15-INCH

REMOVE EXISTING EDGE AND CHEVRONS

ROAD WORK AHEAD W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG RAWSON NW RAMP

R/L FRONTAGE ROAD WEST

R/L USH 45

R/L PHYLLIS LANE

PLACE SIGN 500' PRIOR TO WORK AREA ALONG PHYLLIS LANE

R/L FRONTAGE ROAD EAST

REMOVE EXISTING EDGE AND CHEVRONS

TEMPORARY APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 15-INCH 6 TO 1, TYP.

MATCH LINE STA 918+50

MATCH LINE STA 932+50

LANE CLOSED

LANE CLOSED

STOP

STOP

STOP

STOP

STOP

STOP

ONE WAY

ONE WAY

ONLY

WRONG WAY

WRONG WAY

DO NOT ENTER

DO NOT ENTER

DO NOT ENTER

SPEED LIMIT 50

SPEED LIMIT 50

SPEED LIMIT 40

SPEED LIMIT 40

RIGHT LANE MUST TURN RIGHT

RIGHT LANE MUST TURN RIGHT

BEGIN LEFT TURN LANE

NO PARKING ANY TIME

NO PARKING ANY TIME

NO PARKING ANY TIME

NO PARKING ANY TIME

COUNTY BB

COUNTY BB

JCT

SOUTH 45 100

SOUTH 45 100

Rawson Ave 7100 S

Rawson Ave 7100 S

A/C

A/C

A/C

245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358

1004 1005 1006 1007

12' 12' 12'

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- (XXXX) FOR POINT DATA, SEE SHEET AFTER PLANS
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- (MB) PORTABLE CHANGEABLE MESSAGE BOARD

- [1] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- [2] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- [3] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- [4] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- [5] TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- [6] TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- [7] TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- [8] TEMPORARY MARKING ARROW PAINT (WHITE)
- [9] TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- [10] TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- [EPM] EXISTING PAVEMENT MARKING

N

MATCH LINE STA 932+50

MATCH LINE STA 947+00

R/L PRAIRIEWOOD LANE

R/L CORTEZ CIRCLE

R/L USH 45

R/L HERDA PLACE

R/L CORTEZ CIRCLE (NORTH)

R/L CORTEZ CIRCLE (SOUTH)

LANE CLOSED

BEGIN LEFT TURN LANE

NO PARKING ANY TIME

SPEED LIMIT 40

DO NOT ENTER

STOP

15' TYP.

25' TYP.

50' TYP.

12'

12' 12'

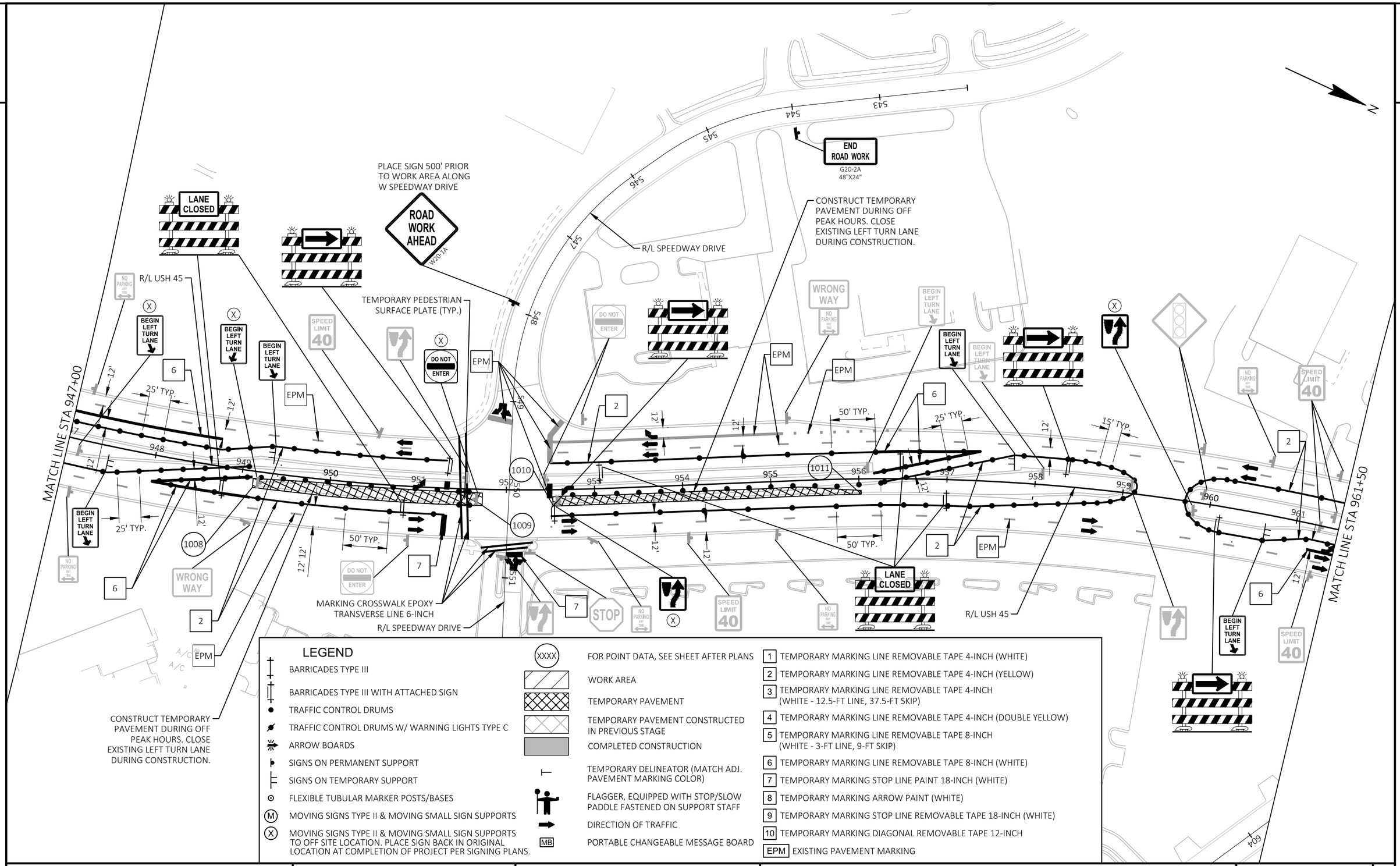
EPM

ROAD WORK AHEAD W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG W HERDA PLACE, W CORTEZ CIRCLE (NORTH AND SOUTH), AND S PRAIREWOOD LANE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 258	E

2



LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- (XXXX) FOR POINT DATA, SEE SHEET AFTER PLANS
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 259	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 026005-S1
PLOT DATE : 5/31/2023 1:40 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- (XXXX) FOR POINT DATA, SEE SHEET AFTER PLANS
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- (MB) PORTABLE CHANGEABLE MESSAGE BOARD

- [1] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- [2] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- [3] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- [4] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- [5] TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- [6] TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- [7] TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- [8] TEMPORARY MARKING ARROW PAINT (WHITE)
- [9] TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- [10] TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- [EPM] EXISTING PAVEMENT MARKING

N

R/L USH 45

MATCH LINE STA 961+50

MATCH LINE STA 975+50

COLLEGE AVENUE

BEGIN LEFT TURN LANE

SPEED LIMIT 40

WRONG WAY

NO PARKING ANY TIME TOW AWAY

STOP

CANOPY

BLDG

G.P.

ROAD WORK AHEAD W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG S WHITNALL EDGE ROAD, VENTURE DRIVE, AND WEST COLLEGE AVENUE

R/L WHITNALL EDGE ROAD

R/L VENTURE DRIVE

CONSTRUCT TEMPORARY PAVEMENT DURING OFF PEAK HOURS. CLOSE EXISTING LEFT TURN LANE DURING CONSTRUCTION.
COVER EXISTING INLETS WITH COVER PLATE TEMPORARY.

REMOVE 'FRANKLIN, WISCONSIN' SIGN AND STORE OFF-SITE. PLACE SIGN BACK IN ORIGINAL LOCATION AFTER CONSTRUCTION IS OVER.

962 963 964 965 966 967 968 969 970 971 972 973 974 975

1012 1013 1014 1015

601 602 603 651 652 653 654

12' 12' 12' 12'

25' TYP.

15' TYP.

50' TYP.

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 260	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 026006-S1

PLOT DATE : 5/31/2023 1:40 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

PLACE SIGN 500' PRIOR TO WORK AREA ALONG KELM ROAD

ROAD WORK AHEAD
W20-1A

KELM ROAD

LANE CLOSED

DETAIL B

W4-2L
36"X36"

LEFT LANE CLOSED AHEAD
W20-5SA

ROAD WORK AHEAD
W20-1A

350'

350'

W4-2L WILL BE PLACED AT 350' PRIOR TO START OF SB LANE CLOSURE ON USH 45. ENGINEER MAY ADJUST LOCATIONS FOR FIELD CONDITIONS.

N

CANOPY

16 TRANSMISSION CENTER

PCMS

MATCH LINE STA 975+50

6

5

2

12' 12'

50' TYP

25' TYP

EPM

1

2

975 976 977 978 979 980 981 320' LANE DROP (45 MPH) 982 983

25' TYP.

5' TYP.

R/L USH 45

EPM

12' 12' 12'

END ROAD WORK
G20-2A
48"X24"

500' AFTER NB WORK AREA

1

A/C

KAY PKWY

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.
- (XXXX) FOR POINT DATA, SEE SHEET AFTER PLANS
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 261	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 026007-S1
PLOT DATE : 5/31/2023 1:40 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

STATION AND OFFSET TABLE				
POINT	STATION	OFFSET	X COORDS	Y COORDS
1000	906+00.00	-12.378 LT	253710.12	570156.80
1008	949+13.60	18.316 RT	257770.82	569267.22
1001	906+00.00	12.246 RT	253727.20	570174.53
1002	909+05.81	-15.772 LT	253928.03	569942.22
1003	910+21.99	17.803 RT	254035.10	569886.51
1004	920+06.42	8.384 RT	254877.93	569407.93
1005	920+06.51	-15.002 LT	254871.77	569385.38
1006	920+87.10	-15.824 LT	254950.19	569364.38
1007	921+36.04	8.437 RT	255003.33	569377.33
1009	951+72.95	18.149 RT	258015.57	569175.77
1010	952+52.86	18.041 RT	258088.70	569142.04
1011	956+02.64	17.437 RT	258400.01	568982.53
1012	967+22.90	8.767 RT	259478.28	568749.45
1013	968+94.77	17.759 RT	259649.96	568761.51
1014	970+81.38	17.629 RT	259836.55	568764.72
1015	971+49.23	-11.327 LT	259904.90	568736.98

STAGE 2A

CONSTRUCTION

- INSTALL TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE 2.
- REMOVE EXISTING AND TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH STAGE 2 TRAFFIC CONTROL.
- CONSTRUCT SOUTHBOUND USH 45 BASE AND PAVEMENT, RESURFACING SECTION, SIDEWALK, DETENTION POND, GUARDRAIL, RAWSON NW RAMP (BY HALVES) IN SUBSTAGES, FRONTAGE ROAD WEST, PRAIRIEWOOD LANE, CORTEZ ROAD, SPEEDWAY DRIVE (BY HALVES) IN SUBSTAGES, AND SOUTHBOUND STORM SEWER TRUNKLINE AS SHOWN IN THE PLANS.
- CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY STORM SEWER FOR STAGE 3 AS SHOWN IN THE PLANS.
- PLACE EROSION CONTROL DEVICES AND FINISHING ITEMS THAT PERTAIN TO STAGE 2 CONSTRUCTION.

TRAFFIC

- TRAFFIC WILL TRAVEL ON THE EXISTING NORTHBOUND SIDE OF THE USH 45 ROADWAY. TRAFFIC WILL BE REDUCED TO TWO TRAVEL LANES SOUTHBOUND, AND ONE TRAVEL LANE NORTHBOUND. NORTHBOUND TRAFFIC WILL BE ON THE EXISTING PAVEMENT, AND SOUTHBOUND TRAFFIC WILL BE ON THE EXISTING PAVEMENT AND NEWLY WIDENED TEMPORARY PAVEMENT AT SPEEDWAY DRIVE. TEMPORARY TRAFFIC SIGNALS AND LEFT TURN LANES WILL BE REQUIRED AT SPEEDWAY DRIVE.
- THE WESTERN LEG OF SPEEDWAY DRIVE WILL BE ONE-WAY TRAVELING WESTBOUND AT USH 45 INTERSECTION.
- PRAIRIEWOOD LANE AND CORTEZ ROAD CAN EACH BE CLOSED INDIVIDUALLY, BUT NOT AT THE SAME TIME.
- THE EASTBOUND RAWSON RAMP TO SOUTHBOUND USH 45 MOVEMENT WILL BE DETOURED USING W. RAWSON AVE. AND LOOMIS ROAD.
- WHITNALL EDGE ROAD AND VENTURE DRIVE WILL BE LIMITED TO RIGHT-IN/RIGHT-OUT.
- STAGE CONSTRUCTION OPERATIONS TO ENSURE THAT ACCESS TO ALL PROPERTIES IS MAINTAINED AT ALL TIMES.
- ONE OF THE TWO FRONTAGE ROAD WEST ACCESS POINTS TO USH 45 MUST BE OPEN AT ALL TIMES.

STAGE 2B

CONSTRUCTION

- CONSTRUCT REMAINING PORTION OF WESTERN HALF OF SPEEDWAY DRIVE INTERSECTION.
- CONSTRUCT SOUTHERN HALF OF RAWSON NW RAMP.

TRAFFIC

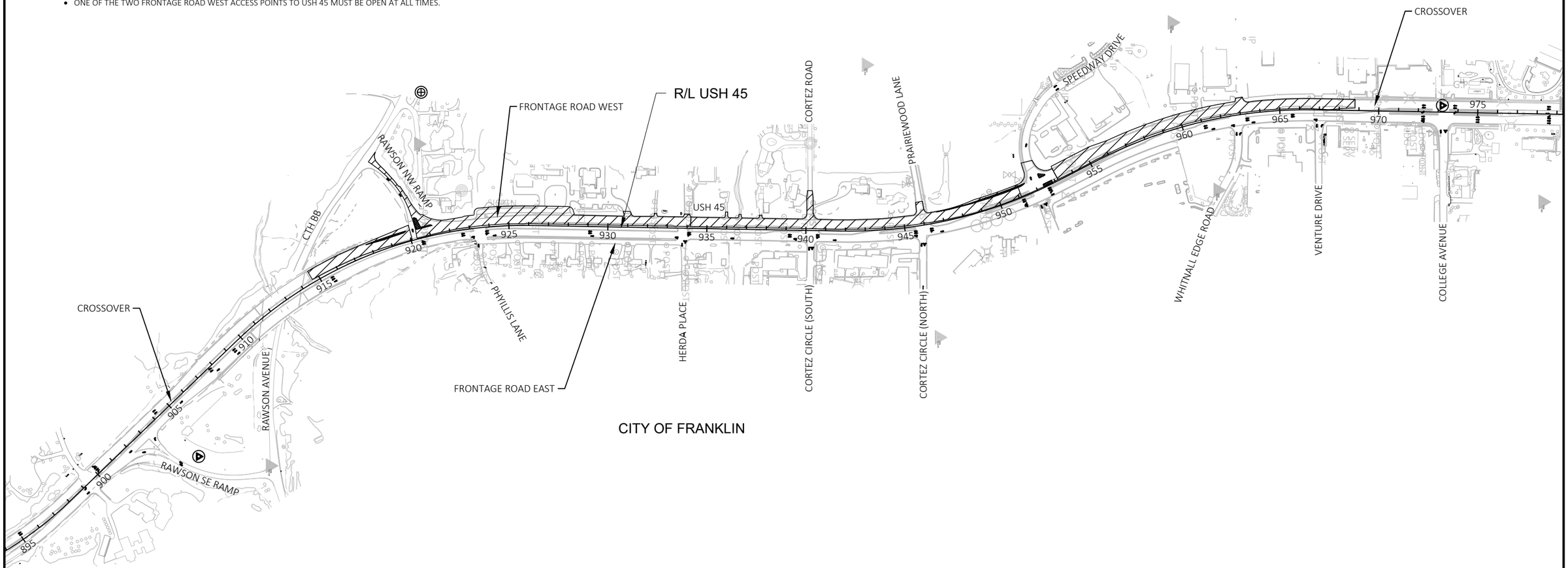
- TRAFFIC WILL REMAIN IN THE STAGE 2A CONFIGURATION EXCEPT AT SPEEDWAY DRIVE AND RAWSON NW RAMP
- TRAFFIC AT SPEEDWAY DRIVE WILL BE SHIFTED TO THE SOUTHERN HALF OF THE INTERSECTION. THE WESTERN LEG OF SPEEDWAY DRIVE WILL REMAIN ONE-WAY TRAVELING WESTBOUND AT USH 45 INTERSECTION
- SHIFT RAWSON NW RAMP TRAFFIC TO THE NORTHERN HALF OF THE ROADWAY.

LEGEND

N

WORK AREA

DIRECTION OF TRAFFIC



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 OVERVIEW	SHEET 263	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026000-S2.DWG
LAYOUT NAME - 026000_s2

PLOT DATE : 4/28/2023 10:59 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

N

RUINS
RUINS
A/C
CANOPY
R/L USH 45
870
875
PCMS
DREXEL AVE
MATCH LINE STA 880+00
(X) SPEED LIMIT 50
R2-1 36" X 48"
SPEED LIMIT 40
3
EPM
15' TYP.
12'
25' TYP.
50' TYP.
12'
2
1
NORTH 45 100
SPEED LIMIT 50 (X)
SPEED LIMIT 40
R2-1 36" X 48"

DETAIL A

2680' 400' 700' 500' 500' 500'

- MAX. 11' WIDTH — W12-52 48"X48"
- ROAD WORK 1 MILE — W20-1F
- LEFT LANE CLOSED AHEAD — W20-5SA
- SPEED LIMIT 40 — W03-5
- SPEED LIMIT 40 — R2-1 24"X30"
- W4-2R 36"X36"
- WIDE LOADS EXCEEDING 10 FT — R12-70B 114"X42"
- 1 MILES AHEAD — W057-52 48"X36"

R12-70B WILL BE PLACED AT 200' PRIOR TO STATION (STA 873+29)
ENGINEER MAY ADJUST LOCATIONS FOR FIELD CONDITIONS

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 264	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 026001-S2
PLOT DATE : 5/31/2023 2:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

N

MATCH LINE STA 880+00

MATCH LINE STA 890+00

R/L USH 45

LANE CLOSED

LANE CLOSED

BEGIN LEFT TURN LANE

EPM

EPM

EPM

EPM

2

2

2

2

1

1

3

5

6

WRONG WAY

DO NOT ENTER

STOP

400' LANE DROP (40MPH)

25' TYP.

25' TYP.

25' TYP.

50' TYP.

12'

12'

12'

12'

12'

885

Woelfel Rd

A/C

U/C

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 265	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 026002-S2
PLOT DATE : 5/31/2023 2:16 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS

MATCH LINE STA 890+00

MATCH LINE STA 905+00

R/L USH 45

EPM

LANE CLOSED

500' AFTER SB WORK AREA

END ROAD WORK
G20-2A
48"X24"

SPEED LIMIT 50

BEGIN LEFT TURN LANE

25' TYP.

50' TYP.

895

900

905

12'

16'

JCT COUNTY BB

WRONG WAY

SPEED LIMIT 50 (X)

SPEED LIMIT 40
R2-1
36" X 48"

Rawson Ave
7100 S

STOP

DO NOT ENTER

ONE WAY

NORTH 45 100

W1-4R

PLACE SIGN 500' PRIOR TO WORK AREA ALONG RAWSON SE RAMP

ROAD WORK AHEAD
W20-1A

RAWSON SE RAMP

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 266	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 026003-S2

PLOT DATE : 5/31/2023 2:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

TEMPORARY PRECAST TRENCH DRAIN STA 906+00 TO STA 909+06 CONSTRUCTED IN STAGE 1

STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH CONSTRUCTED IN STAGE 1

R/L USH 45

MATCH LINE STA 905+00

MATCH LINE STA 918+50

SPEED LIMIT 50

W21-6R

910

915

14' 14'

R633'

50' TYP

R1308'

14'

R1577'

25' C-C

14' 2' 11' 11'

50' Typ.

12' 2' 11' 11'

W6-3

SPEED LIMIT 40

INLETS 2 X 2.5-FT INLET COVER TYPE S CONSTRUCTED IN STAGE 1

APRON ENDWALL CONSTRUCTED IN STAGE 1

NORTH 45 100

LANE CLOSED

RAWSON AVENUE (CTH BB)

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS

N

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 267	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 026004-S2

PLOT DATE : 5/31/2023 2:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

END ROAD WORK
W20-2A
48"X24"

END ROADWORK SIGN PLACED 500' NB AND SB OF RAWSON AVE AND RAWSON NW RAMP INTERSECTION PLACED IN STAGE 1.

NO LEFT TURN AND NO RIGHT TURN SIGNS PLACED 500' NB AND SB ALONG RAWSON AVE AND RAWSON NW RAMP INTERSECTION

RAWSON AVE

ROAD CLOSED

CONSTRUCT RAWSON NW RAMP IN SUB-STAGES.
SB USH 45 TO RAWSON TO REMAIN OPEN.
RAWSON TO SB USH 45 DETOURED.

R/L RAWSON NW RAMP

MAINTAIN ONE CONNECTION FROM WEST FRONTAGE ROAD TO/FROM USH 45 AT ALL TIMES

R/L FRONTAGE ROAD WEST

CONTRACTOR TO PROVIDE LOCAL ACCESS TO DRIVEWAYS ON USH 45 AT ALL TIMES.

R/L USH 45

INSTALLED IN STAGE 1

7

50' TYP

50' TYP.

Rawson Ave
7100 s

JCT COUNTY BB

SOUTH 45 100

STOP

WRONG WAY

ONE WAY

DO NOT ENTER

SPEED LIMIT 50

SPEED LIMIT 40

RIGHT LANE MUST TURN RIGHT

ONLY

NO PARKING ANY TIME

ROAD WORK AHEAD
W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG PHYLLIS LANE

R/L PHYLLIS LANE

R/L FRONTAGE ROAD EAST

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS

12' 2' 11' 11'

135 LF CULVERT PIPE
TEMPORARY 15-INCH
CONSTRUCTED IN STAGE 1

APRON
ENDWALL,
TYP.
CONSTRUCTED IN STAGE 1

MATCH LINE STA 918+50

MATCH LINE STA 932+50

N

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 268 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 026005-S2
PLOT DATE : 5/31/2023 2:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- (MB) PORTABLE CHANGEABLE MESSAGE BOARD

- [1] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- [2] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- [3] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- [4] TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- [5] TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- [6] TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- [7] TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- [8] TEMPORARY MARKING ARROW PAINT (WHITE)
- [9] TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- [10] TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- [EPM] EXISTING PAVEMENT MARKING

N

MATCH LINE STA 932+50

CONTRACTOR TO PROVIDE LOCAL ACCESS TO DRIVEWAYS ON USH 45 AT ALL TIMES.

R/L CORTEZ ROAD

MOVE ROAD CLOSED SIGNS TO SIDE ROAD CLOSURES AS APPLICABLE

MOVE ROAD CLOSED SIGNS TO SIDE ROAD CLOSURES AS APPLICABLE

R/L PRAIRIEWOOD LANE

R/L USH 45

MATCH LINE STA 947+00

50' TYP.

50' TYP.

935

940

945

360

402

404

452

498

502

504

12' 2' 11' 11'

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS

R/L HERDA PLACE

PLACE SIGN 500' PRIOR TO WORK AREA ALONG HERDA PLACE, CORTEZ CIRCLE (NORTH AND SOUTH), AND PRAIREWOOD LANE

R/L CORTEZ CIRCLE (SOUTH)

R/L CORTEZ CIRCLE (NORTH)

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 269	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 026006-S2
PLOT DATE : 5/31/2023 2:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

ROAD CLOSED

ROAD CLOSED

ROAD CLOSED

ROAD WORK AHEAD W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG W SPEEDWAY DRIVE

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS

TEMPORARY PEDESTRIAN SURFACE PLATE (TYP.) AND TEMPORARY PEDESTRIAN CURB RAMP AND TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD AND TEMPORARY PEDESTRIAN BARRICADE (TYP.)

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

R/L SPEEDWAY DRIVE

R/L USH 45

MATCH LINE STA 947+00

MATCH LINE STA 961+50

INSTALLED IN STAGE 1

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

R/L SPEEDWAY DRIVE

544

546

604

950

955

960

16'

30'

15' TYP

25' TYP.

50' TYP

50' TYP.

50' TYP

50' TYP.

10' (TYP.)

15' TYP

5' (TYP.)

25' C-C

11'

12' 2' 11' 11'

12' 2' 11' 11'

12' 2' 11' 11'

NO PARKING ANY TIME

SPEED LIMIT 40

WRONG WAY

DO NOT ENTER

BEGIN LEFT TURN LANE

STOP

A/C

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

ROAD WORK AHEAD W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG W SPEEDWAY DRIVE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 270	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 026007-S2

PLOT DATE : 5/31/2023 2:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

N

MATCH LINE STA 961+50

MATCH LINE STA 975+50

STOP

NO PARKING ANY TIME

R/L USH 45

BEGIN LEFT TURN LANE

SPEED LIMIT 40

LANE CLOSED

WRONG WAY

CANOPY

BLDG

965

970

975

5' C-C

15' C-C

50' TYP.

50' TYP

R1707'

R928'

14'

14'

12' 2' 11' 11'

12' 12' 12'

602

652

654

RIGHT-IN/RIGHT OUT

RIGHT-IN/RIGHT OUT

ROAD WORK AHEAD W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG WHITNALL EDGE ROAD, VENTURE DRIVE, AND COLLEGE AVENUE

R/L WHITNALL EDGE ROAD

R/L VENTURE DRIVE

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS

COLLEGE AVENUE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 271	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 026008-S2

PLOT DATE : 5/31/2023 2:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

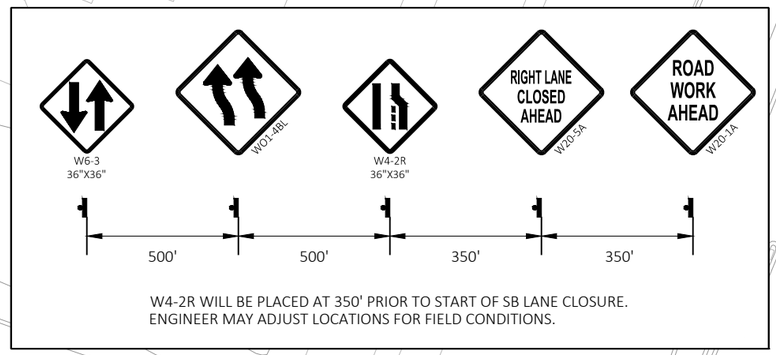
2

PLACE SIGN 500' PRIOR TO WORK AREA ALONG KELM ROAD

ROAD WORK AHEAD
W20-1A

KELM ROAD

DETAIL B



W4-2R WILL BE PLACED AT 350' PRIOR TO START OF SB LANE CLOSURE.
ENGINEER MAY ADJUST LOCATIONS FOR FIELD CONDITIONS.

N

LANE CLOSED

CANOPY

16 TRANSMISSION CENTER

PCMS

MATCH LINE STA 975+50

50' TYP

12'

12'

25' TYP.

320' LANE DROP (40MPH)

5' TYP.

980

1

1

3

5

2

2

6

R/L USH 45

A/C

END ROAD WORK
G20-2A
48"X24"

500' AFTER NB WORK AREA

KAY PKWY

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 272	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 026001-S2 - 026009-S2
PLOT DATE : 5/31/2023 2:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

END ROADWORK SIGN PLACED 500' NB AND SB OF RAWSON AVE AND RAWSON NW RAMP INTERSECTION PLACED IN STAGE 1.

NO LEFT TURN AND NO RIGHT TURN SIGNS PLACED 500' NB AND SB ALONG RAWSON AVE AND RAWSON NW RAMP INTERSECTION

CONSTRUCT RAWSON NW RAMP IN SUB-STAGES. SB USH 45 TO RAWSON TO REMAIN OPEN. RAWSON TO SB USH 45 DETOURED.

R/L RAWSON NW RAMP

MAINTAIN ONE CONNECTION FROM WEST FRONTAGE ROAD TO/FROM USH 45 AT ALL TIMES

R/L FRONTAGE ROAD WEST

CONTRACTOR TO PROVIDE LOCAL ACCESS TO DRIVEWAYS ON USH 45 AT ALL TIMES.

R/L USH 45

APRON ENDWALL, TYP. CONSTRUCTED IN STAGE 1

135 LF CULVERT PIPE TEMPORARY 15-INCH CONSTRUCTED IN STAGE 1

PLACE SIGN 500' PRIOR TO WORK AREA ALONG PHYLLIS LANE

R/L PHYLLIS LANE

R/L FRONTAGE ROAD EAST

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

EPM EXISTING PAVEMENT MARKING

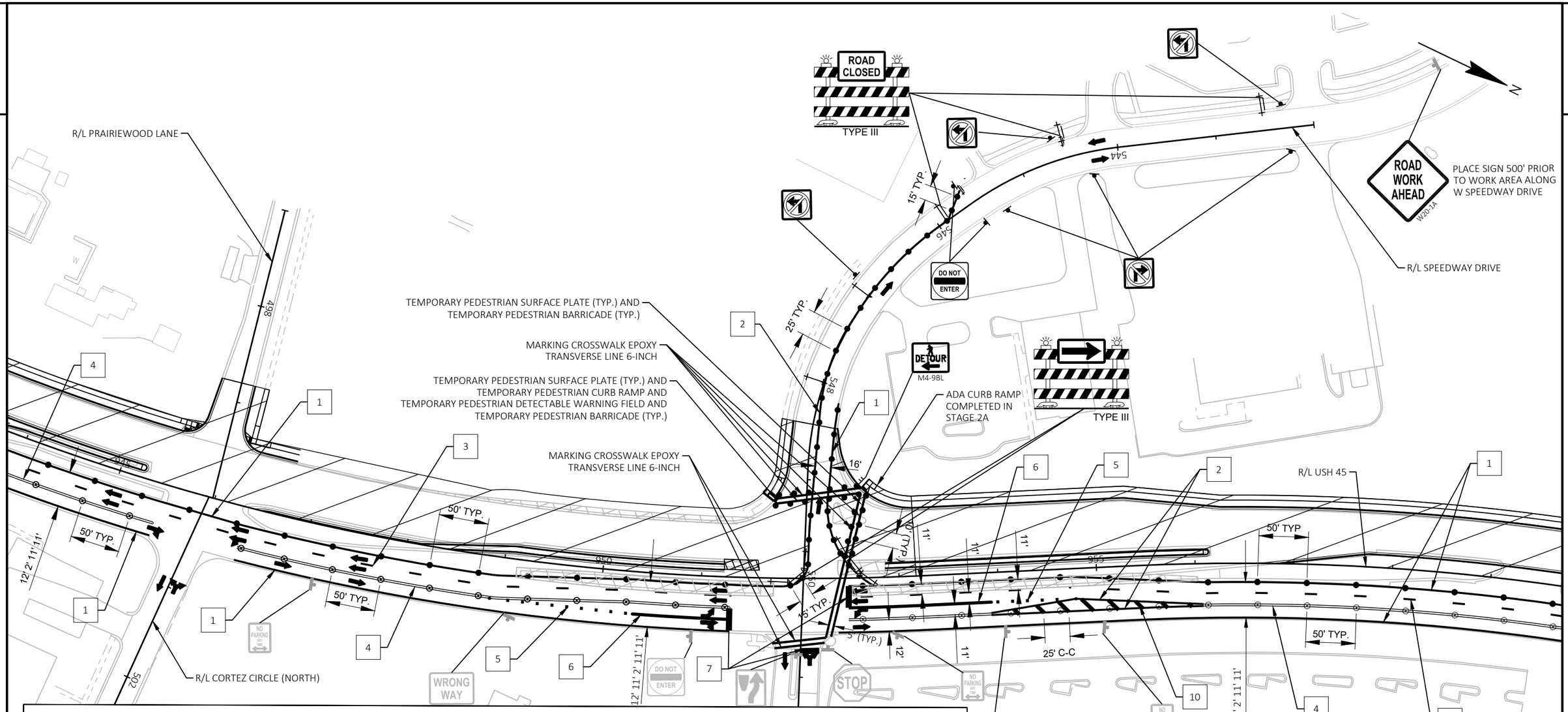
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B	SHEET 273	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001_S2SUBSTAGE.DWG
LAYOUT NAME - 026001-2B

PLOT DATE : 5/31/2023 2:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 2 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 3 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
- 6 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 7 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
- 8 TEMPORARY MARKING ARROW PAINT (WHITE)
- 9 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- 10 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH
- EPM EXISTING PAVEMENT MARKING

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B	SHEET 274	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001_S2SUBSTAGE.DWG
LAYOUT NAME - 026002-2B
PLOT DATE : 5/31/2023 2:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

STAGE 3A

CONSTRUCTION

- INSTALL TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE 3.
- REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE 3 TRAFFIC CONTROL.
- CONSTRUCT NORTHBOUND USH 45 BASE AND PAVEMENT, RESURFACING SECTION, SIDEWALK, AND STORM SEWER AS SHOWN IN THE PLANS. CONSTRUCT FRONTAGE ROAD EAST, PHYLLIS LANE, HERDA PLACE, CORTEZ CIRCLE (SOUTH), CORTEZ CIRCLE (NORTH), SPEEDWAY DRIVE (BY HALVES) IN SUBSTAGES, WHITNALL EDGE ROAD AND VENTURE DRIVE.
- ADD TEMPORARY PAVEMENT ASPHALT WEDGES FOR STAGE 4 TRAFFIC AS NEEDED TO CONNECT NEW NORTHBOUND AND SOUTHBOUND LANES TO EXISTING PAVEMENT IN MEDIAN.
- PLACE EROSION CONTROL DEVICES AND FINISHING ITEMS THAT PERTAIN TO STAGE 3 CONSTRUCTION.

TRAFFIC

- TRAFFIC WILL TRAVEL ON THE FINISHED SOUTHBOUND SIDE OF THE USH 45 ROADWAY. TRAFFIC WILL BE REDUCED TO TWO TRAVEL LANES SOUTHBOUND, AND ONE TRAVEL LANE NORTHBOUND. SOUTHBOUND TRAFFIC WILL BE ON THE FINISHED ROADWAY, AND NORTHBOUND TRAFFIC WILL BE ON THE FINISHED ROADWAY AND TEMPORARY PAVEMENT AT SPEEDWAY DRIVE. TEMPORARY TRAFFIC SIGNALS AND LEFT TURN LANES WILL BE REQUIRED AT SPEEDWAY DRIVE.
- THE RAWSON NW RAMP WILL BE REOPENED TO BI-DIRECTIONAL TRAFFIC, AND THE DETOUR REMOVED.
- THE EASTERN LEG OF SPEEDWAY DRIVE WILL BE ONE-WAY TRAVELING EASTBOUND AT USH 45 INTERSECTION.
- PHYLLIS LANE AND HERDA PLACE CAN EACH BE CLOSED INDIVIDUALLY, BUT NOT AT THE SAME TIME.
- CORTEZ CIRCLE (SOUTH) AND CORTEZ CIRCLE (NORTH) CAN EACH BE CLOSED INDIVIDUALLY, BUT NOT AT THE SAME TIME.
- VENTURE DRIVE WHITNALL EDGE ROAD WILL BE OPEN, BUT RESTRICTED TO RIGHT-IN/RIGHT-OUT MOVEMENTS.
- STAGE CONSTRUCTION OPERATIONS TO ENSURE THAT ACCESS TO ALL PROPERTIES IS MAINTAINED AT ALL TIMES.

STAGE 3B

CONSTRUCTION

- CONSTRUCT REMAINING EASTERN HALF OF SPEEDWAY DRIVE INTERSECTION.

TRAFFIC

- TRAFFIC WILL REMAIN IN THE STAGE 3A CONFIGURATION EXCEPT AT SPEEDWAY DRIVE. AT SPEEDWAY DRIVE, SHIFT TRAFFIC TO THE SOUTHERN HALF OF THE INTERSECTION.

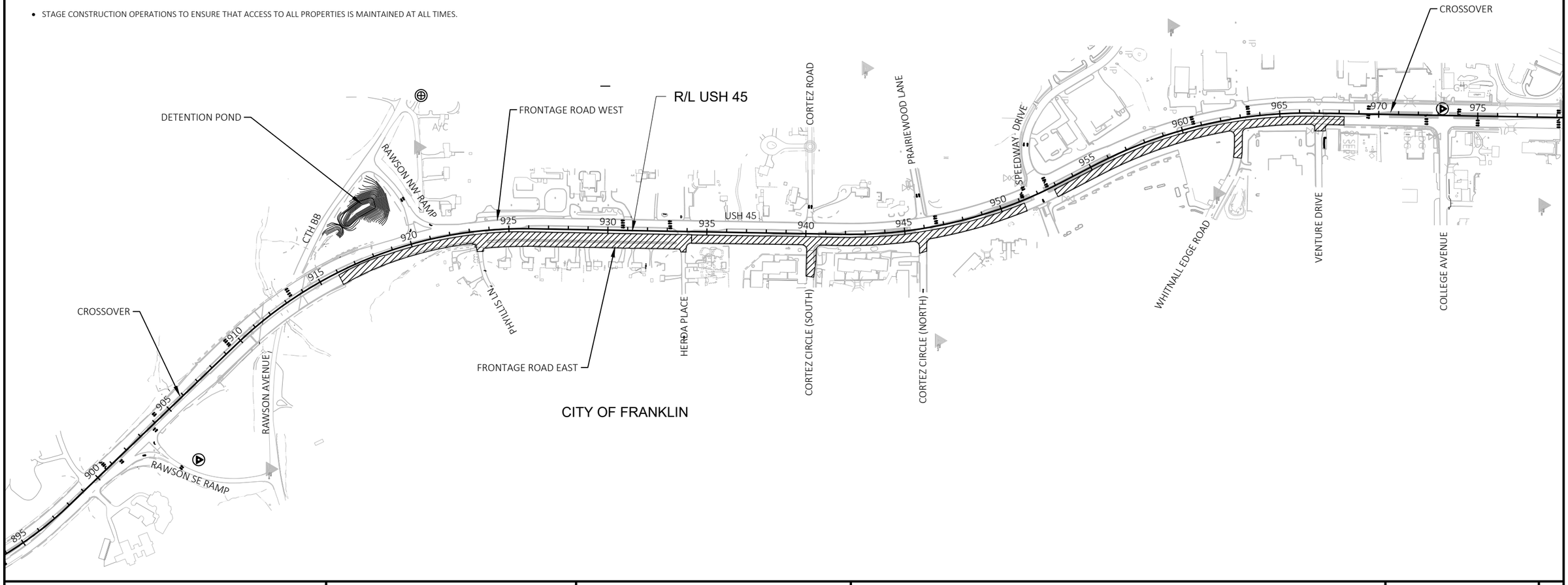
LEGEND

N

WORK AREA

DIRECTION OF TRAFFIC

COMPLETED CONSTRUCTION



CITY OF FRANKLIN

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3 OVERVIEW	SHEET 275	E

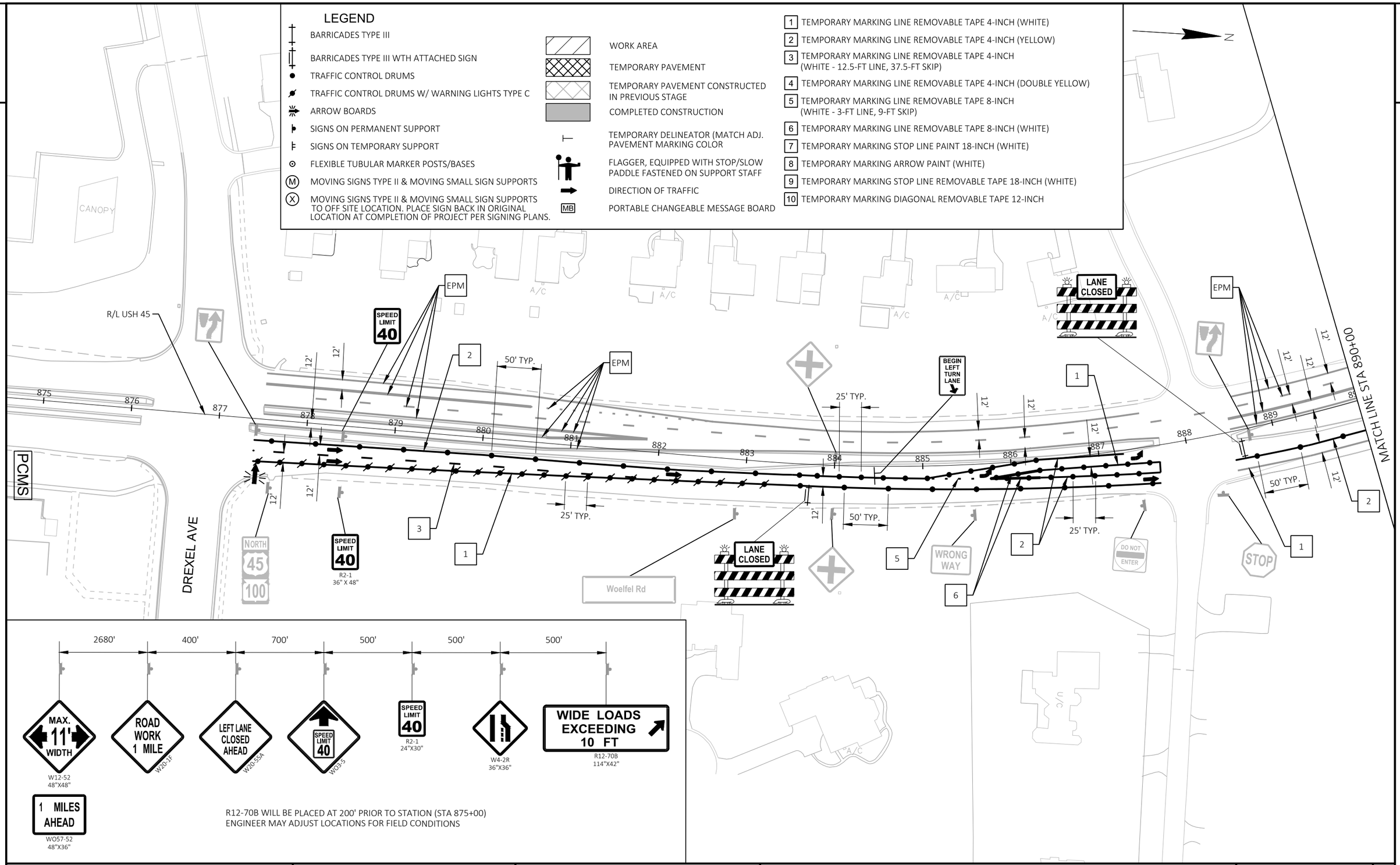
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026000-S3.DWG
LAYOUT NAME - 026000_s3
PLOT DATE : 4/28/2023 11:01 PM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH



R12-70B WILL BE PLACED AT 200' PRIOR TO STATION (STA 875+00)
ENGINEER MAY ADJUST LOCATIONS FOR FIELD CONDITIONS

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3A	SHEET 276	E

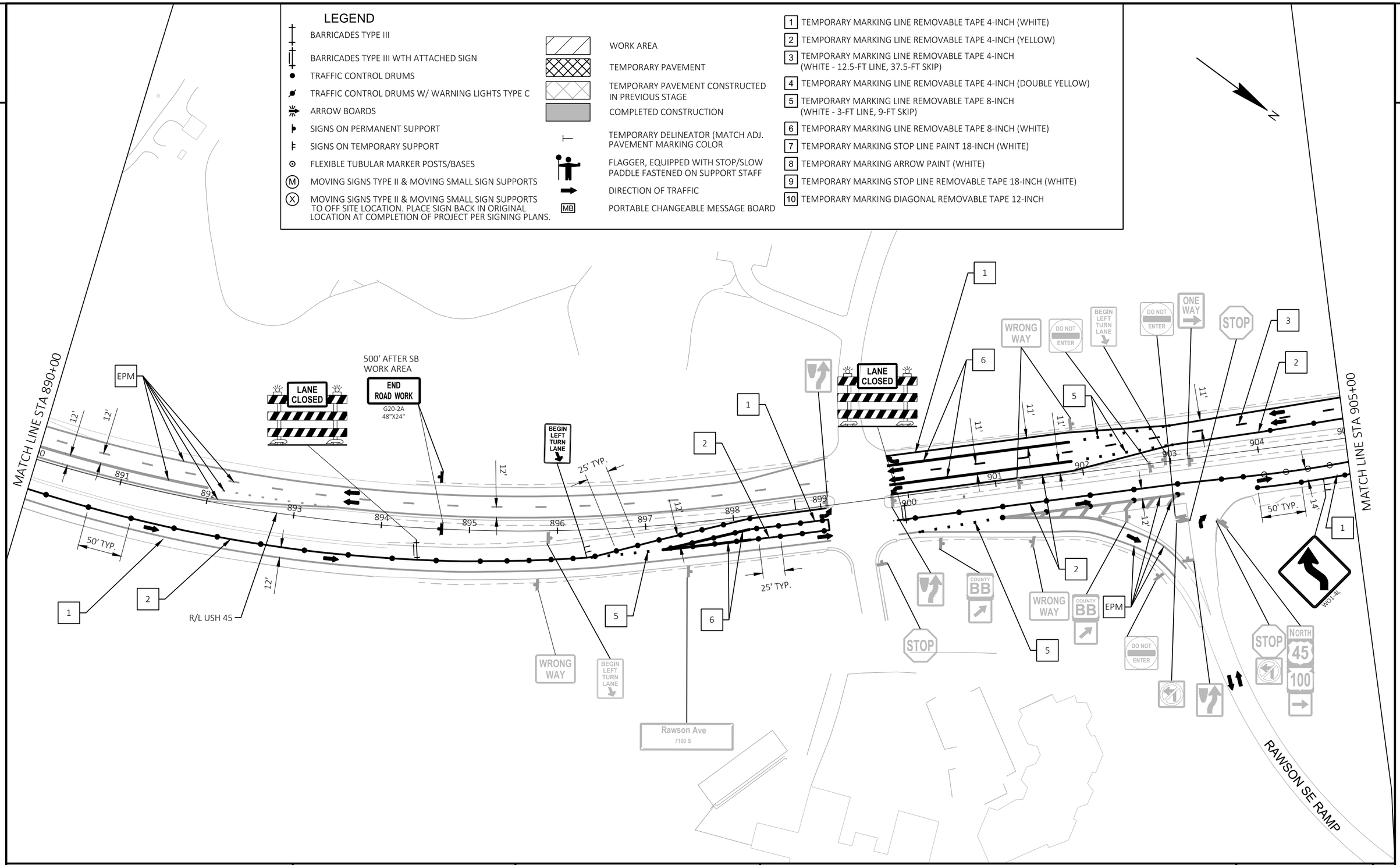
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 026001-S3
PLOT DATE : 5/31/2023 2:27 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3A	SHEET 277	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 026002-S3

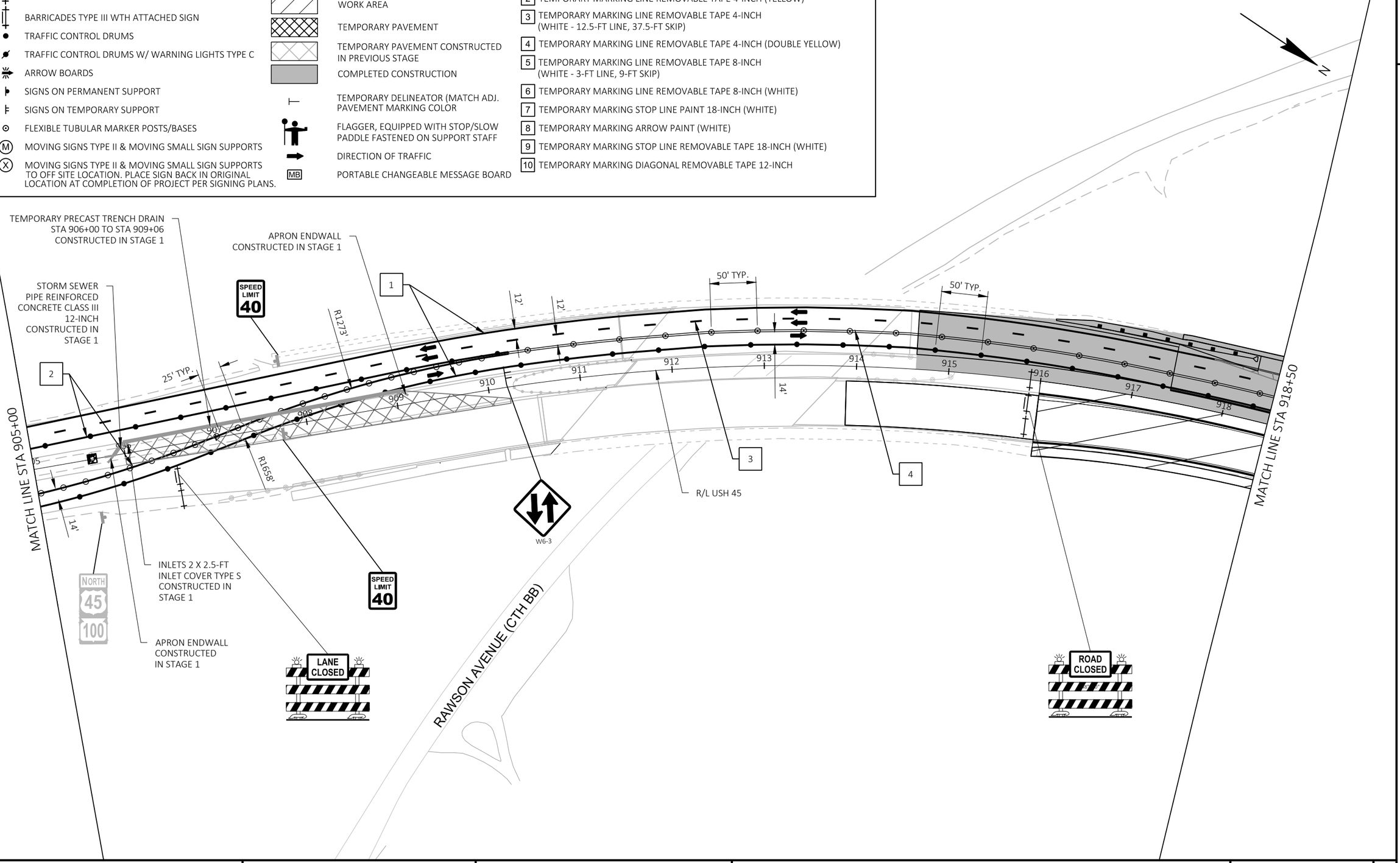
PLOT DATE : 5/31/2023 2:27 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3A	SHEET 278	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 026003-S3

PLOT DATE : 5/31/2023 2:27 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

END ROADWORK SIGN PLACED 500' NB AND SB OF RAWSON AVE AND RAWSON NW RAMP INTERSECTION

END ROAD WORK G20-2A 48"X24"

RAWSON AVE

STOP

R/L RAWSON NW RAMP

ROAD WORK AHEAD W20-1A

MOVE ROAD CLOSED SIGNS TO SIDE ROAD CLOSURES AS APPLICABLE

ROAD CLOSED

COUNTY BB

Rawson Ave 7100 s

SOUTH 45 100

R/L FRONTAGE ROAD WEST

50' TYP.

NO PARKING ANY TIME

JCT COUNTY BB

R/L USH 45

MATCH LINE STA 918+50

MATCH LINE STA 932+50

SPEED LIMIT 40

R/L PHYLLIS LANE

PLACE SIGN 500' PRIOR TO WORK AREA ALONG S PHYLLIS LANE

R/L FRONTAGE ROAD EAST

135 LF CULVERT PIPE TEMPORARY 15-INCH CONSTRUCTED IN STAGE 1

APRON ENDWALL, TYP. CONSTRUCTED IN STAGE 1

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3A	SHEET 279	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 026004-S3

PLOT DATE : 5/31/2023 2:27 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

N

R/L PRAIRIEWOOD LANE

R/L CORTEZ ROAD

R/L USH 45

50' TYP.

50' TYP.

14'

12'

12'

MATCH LINE STA 932+50

MATCH LINE STA 947+00

933 934 935 936 937 938 939 940 941 942 943 944 945 946

359 360 401 402 403 404

448 449 450 451 452 453

498 499 501 502 503 504

NO PARKING ANY TIME

SPEED LIMIT 40

STOP

ROAD CLOSED

MOVE ROAD CLOSED SIGNS TO SIDE ROAD CLOSURES AS APPLICABLE.
ADJUST PAVEMENT MARKING ACCORDINGLY FOR SIDE ROADS

R/L CORTEZ CIRCLE (SOUTH)

R/L CORTEZ CIRCLE (NORTH)

R/L HERDA PLACE

ROAD WORK AHEAD W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG W HERDA PLACE, W CORTEZ CIRCLE (NORTH AND SOUTH), CORTEZ ROAD, AND RAIREWOOD LANE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3A	SHEET 280 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 026005-S3

PLOT DATE : 5/31/2023 2:27 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

PLACE SIGN 500' PRIOR TO WORK AREA ALONG W SPEEDWAY DRIVE

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

R/L SPEEDWAY DRIVE

TEMPORARY PEDESTRIAN SURFACE PLATE (TYP.) AND
TEMPORARY PEDESTRIAN BARRICADE (TYP.)

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

TEMPORARY PEDESTRIAN SURFACE PLATE (TYP.)
TEMPORARY PEDESTRIAN CURB RAMP AND
TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD AND
TEMPORARY PEDESTRIAN BARRICADE (TYP.)

DETOUR
M4-9BL

MATCH LINE STA 947+00

MATCH LINE STA 961+50

NO PARKING ANY TIME

SPEED LIMIT 40

DO NOT ENTER

WRONG WAY

LANE CLOSED

ROAD CLOSED

STOP

MARKING CROSSWALK
PAINT TRANSVERSE
LINE 6-INCH

R/L USH 45

14'

25' C-C

50' TYP.

11' 11' 2' 11' 11'

1' 2' 11' 11' 11'

14' 2' 12' 12'

5' (TYP.)

10' (TYP.)

16'

25' TYP.

947 948 949 950 951 952 953 954 955 956 957 958 959 960 961

543 544 545 546 547 548 551 552

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3A	SHEET 281	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 026006-S3
PLOT DATE : 5/31/2023 2:27 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

N

MATCH LINE STA 961+50

MATCH LINE STA 975+50

R/L USH 45

14' 12' 12' 12'

5' TYP.

50' TYP.

25' TYP.

R788'

R1928'

R972'

963 964 965 966 967 968 969 970 971 972 973 974 975

602 603 651 652 653 654

SPEED LIMIT 40

LANE CLOSED

WO1-4BR

WRONG WAY

BEGIN LEFT TURN LANE

STOP

NO PARKING ANY TIME

CANOPY

BLDG

INTERSECTION TO BE CONSTRUCTED IN SUB STAGES, RIGHT-IN/RIGHT-OUT

ROAD CLOSED

MOVE ROAD CLOSED SIGNS TO SIDE ROAD CLOSURES AS APPLICABLE

ROAD WORK AHEAD W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG S WHITNALL EDGE ROAD, VENTURE DRIVE, AND WEST COLLEGE AVENUE

R/L VENTURE DRIVE

R/L WHITNALL EDGE ROAD

COLLEGE AVENUE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3A	SHEET 282	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 026007-S3

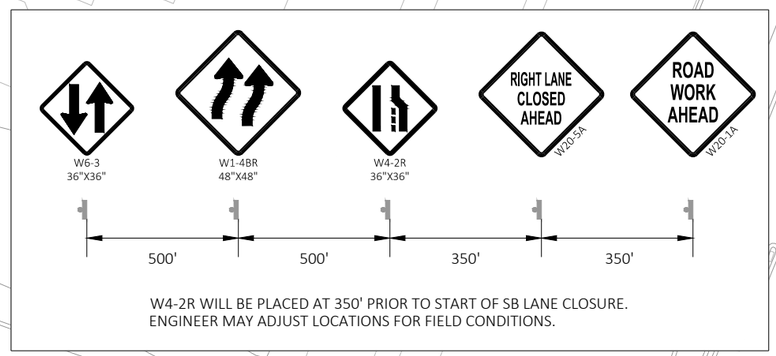
PLOT DATE : 5/31/2023 2:27 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

PLACE SIGN 500' PRIOR TO WORK AREA ALONG KELM ROAD

ROAD WORK AHEAD
W20-1A

KELM ROAD



N

CANOPY

16 TRANSMISSION CENTER

PCMS

LANE CLOSED

1
3
6
50' TYP.
25' TYP.
1
320' LANE DROP (40MPH)
5' TYP.
976
977
978
979
980
981
982
983
5
2
2
2
R/L USH 45

MATCH LINE STA 975+50

END ROAD WORK
G20-2A
48"X24"
500' AFTER NB WORK AREA

A/C

KAY PKWY

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

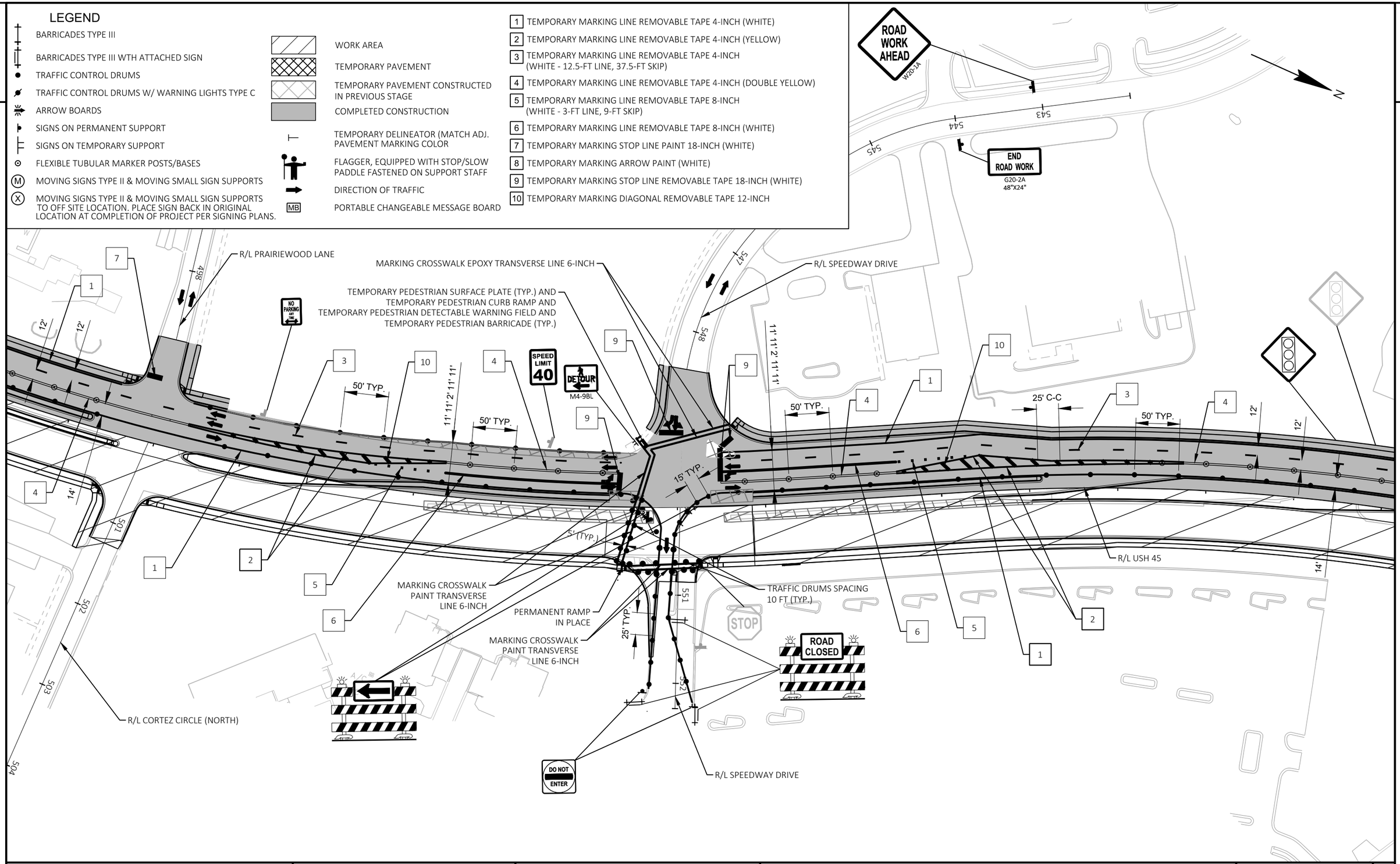
2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3B	SHEET 284	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S3B.DWG
LAYOUT NAME - 026008-S3B

PLOT DATE : 5/31/2023 2:29 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

STAGE 4

CONSTRUCTION

- INSTALL PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE 4.
- REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE 4 TRAFFIC CONTROL.
- CONSTRUCT REMAINING USH 45 MEDIAN LANES, RAISED MEDIANS, LEFT TURN LANES, LIGHTING, TRAFFIC SIGNALS AND REMAINING DRAINAGE ITEMS.
- REMOVE THE CROSSOVERS AT THE NORTH AND SOUTH LIMITS.
- PLACE EROSION CONTROL DEVICES AND FINISHING ITEMS THAT PERTAIN TO STAGE 4 CONSTRUCTION.
- INSTALL PERMANENT PAVEMENT MARKINGS, PERMANENT SIGNING.
- COMPLETE DETENTION ALL POND CONSTRUCTION, INCLUDING GRADING, STORM SEWER, OUTLET STRUCTURE, SPILLWAY, RIP RAP, TOPSOIL, AND RESTORATION, PRIOR TO SEPTEMBER 30, 2024.

TRAFFIC

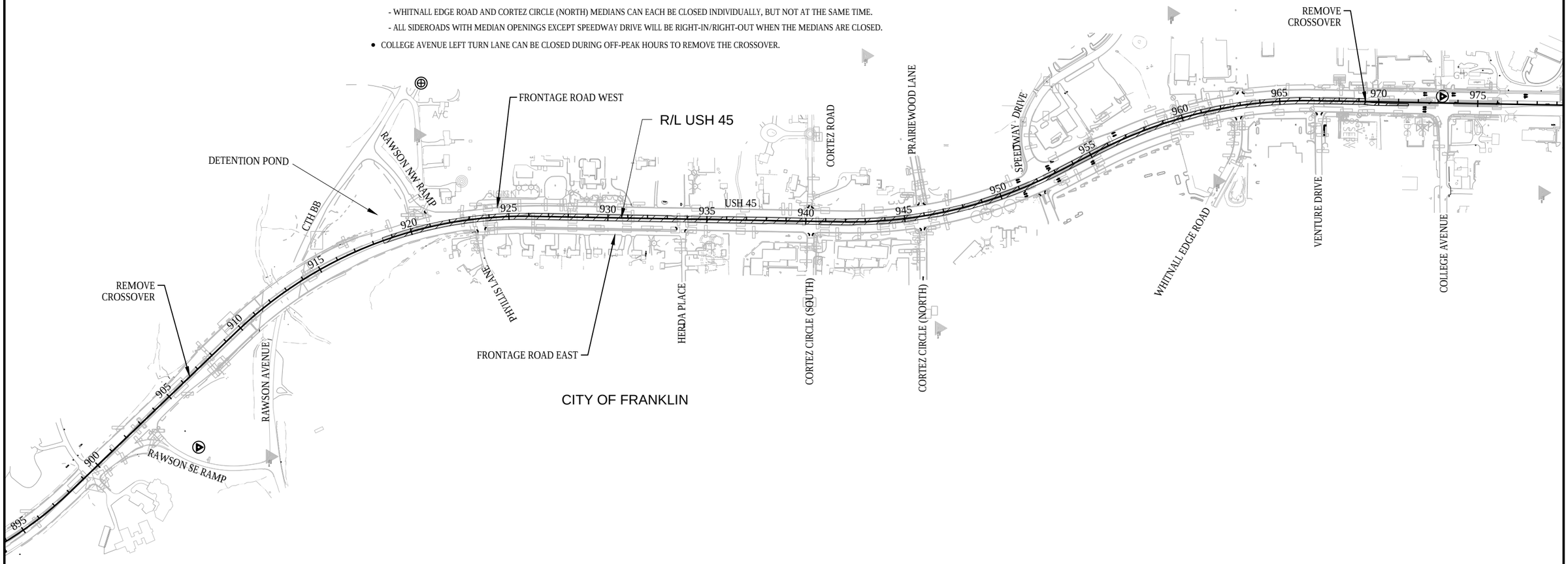
- NORTHBOUND USH 45 TRAFFIC WILL REMAIN REDUCED TO TWO LANES AND WILL TRAVEL ON THE NORTHBOUND FINISHED ROADWAY, WITH THE MEDIAN LANE CLOSED.
- SOUTHBOUND USH 45 TRAFFIC WILL REMAIN REDUCED TO TWO LANES AND WILL REMAIN IN THE STAGE 3 CONFIGURATION, WITH THE MEDIAN LANE CLOSED.
- STAGE CONSTRUCTION OPERATIONS TO ENSURE ACCESS TO SIDE ROADS AT THE INTERSECTIONS ARE MAINTAINED AND MEDIAN ACCESS IS MAINTAINED. THE FOLLOWING MEDIAN CLOSURES WILL BE ALLOWED:
  - PHYLLIS LANE AND HERDA PLACE MEDIANS CAN EACH BE CLOSED INDIVIDUALLY, BUT NOT AT THE SAME TIME.
  - CORTEZ CIRCLE (SOUTH)/CORTEZ ROAD AND CORTEZ CIRCLE (NORTH)/PRAIRIEWOOD LANE MEDIANS CAN EACH BE CLOSED INDIVIDUALLY, BUT NOT AT THE SAME TIME.
  - WHITNALL EDGE ROAD AND CORTEZ CIRCLE (NORTH) MEDIANS CAN EACH BE CLOSED INDIVIDUALLY, BUT NOT AT THE SAME TIME.
  - ALL SIDEROADS WITH MEDIAN OPENINGS EXCEPT SPEEDWAY DRIVE WILL BE RIGHT-IN/RIGHT-OUT WHEN THE MEDIANS ARE CLOSED.
- COLLEGE AVENUE LEFT TURN LANE CAN BE CLOSED DURING OFF-PEAK HOURS TO REMOVE THE CROSSOVER.

LEGEND

N

WORK AREA

DIRECTION OF TRAFFIC



2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 4 OVERVIEW	SHEET 285	E

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

500' AFTER SB WORK AREA

END ROAD WORK
G20-2A
48"X24"

890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905

PCMS

WRONG WAY
BEGIN LEFT TURN LANE
Rawson Ave
7100 S
STOP
COUNTY BB
WRONG WAY
COUNTY BB
DO NOT ENTER
STOP
NORTH 45 100

WRONG WAY
DO NOT ENTER
BEGIN LEFT TURN LANE
DO NOT ENTER
ONE WAY
STOP

N

50' TYP

11' 11' 12' 12'

1 2 3

MATCH LINE STA 905+00

R/L USH 45

RAWSON SE RAMP

PLACE SIGN 500' PRIOR TO WORK AREA ALONG RAWSON SE RAMP

ROAD WORK AHEAD
W20-1A

3700' 500' 500'

ROAD WORK 1 MILE
W20-1F

SPEED LIMIT 40
W03-5

SPEED LIMIT 40

W01-4BR

W01-4BR WILL BE PLACED AT 500' PRIOR TO START OF NB PAVEMENT MARKING
ENGINEER MAY ADJUST LOCATIONS FOR FIELD CONDITIONS

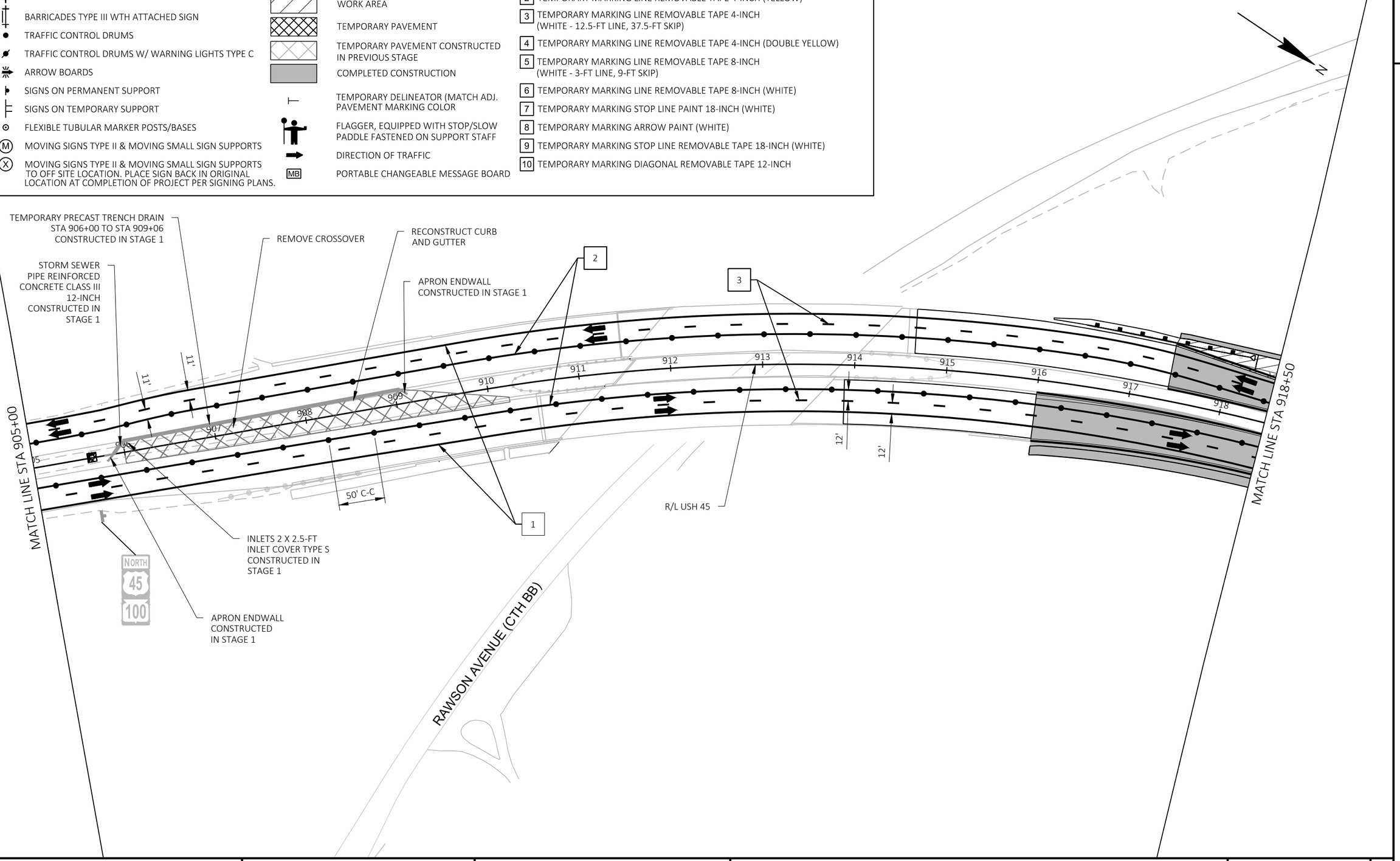
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 4	SHEET 286	E

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 4	SHEET 287	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S4.DWG
LAYOUT NAME - 026002-S4

PLOT DATE : 5/31/2023 2:04 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

END ROADWORK SIGN PLACED 500' NB AND SB OF RAWSON AVE AND RAWSON NW RAMP INTERSECTION

END ROAD WORK
G20-2A
48"X24"

RAWSON AVE

STOP

R/L RAWSON NW RAMP

ROAD WORK AHEAD
W20-1A

SOUTH 45 100

COUNTY BB
Rawson Ave
7100 s

ROAD CLOSED

R/L FRONTAGE ROAD WEST

JCT COUNTY BB
Rawson Ave
7100 s

R/L USH 45

NO PARKING ANY TIME

11'

12'

50' TYP.

SPEED LIMIT 40

A/C

© WELL

MATCH LINE STA 918+50

MATCH LINE STA 932+50

135 LF CULVERT PIPE
TEMPORARY 15-INCH
CONSTRUCTED IN STAGE 1

APRON
ENDWALL,
TYP.
CONSTRUCTED IN STAGE 1

R/L PHYLLIS LANE

PLACE SIGN 500' PRIOR TO WORK AREA ALONG PHYLLIS LANE

R/L FRONTAGE ROAD EAST

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 4	SHEET 288	E

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

N

MATCH LINE STA 932+50

MATCH LINE STA 947+00

R/L CORTEZ ROAD

R/L USH 45

R/L PRAIRIEWOOD LANE

R/L HERDA PLACE

R/L CORTEZ CIRCLE (SOUTH)

R/L CORTEZ CIRCLE (NORTH)

INSTALLED IN STAGE 3A

50' TYP.

50' C-C

11'

12'

PLACE SIGN 500' PRIOR TO WORK AREA ALONG HERDA PLACE, CORTEZ CIRCLE (NORTH AND SOUTH), CORTEZ ROAD, AND PRAIRIEWOOD LANE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 4	SHEET 289 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S4.DWG
LAYOUT NAME - 026004-S4

PLOT DATE : 5/31/2023 2:04 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

ROAD WORK AHEAD
W20-1A

R/L SPEEDWAY DRIVE

TEMPORARY PEDESTRIAN SURFACE PLATE (TYP.)
TEMPORARY PEDESTRIAN CURB RAMP AND
TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD AND
TEMPORARY PEDESTRIAN BARRICADE (TYP.)

INSTALLED IN STAGE 3A

MARKING CROSSWALK PAINT
TRANSVERSE LINE 6-INCH

INSTALLED IN STAGE 3A

MATCH LINE STA 947+00

MATCH LINE STA 961+50

WRONG WAY

ROAD WORK AHEAD
W20-1A

MARKING CROSSWALK PAINT
TRANSVERSE LINE 6-INCH

R/L USH 45

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 4	SHEET 290	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S4.DWG
LAYOUT NAME - 026005-S4

PLOT DATE : 5/31/2023 2:04 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

N

MATCH LINE STA 961+50

MATCH LINE STA 975+50

STOP

NO PARKING ANY TIME

ROAD CLOSED

SPEED LIMIT 40

WRONG WAY

50' TYP.

11'

12'

961 963 965 966 967 968 969 970 971 972 973 974 975

601 602 603 651 652 653 654

REMOVE CROSSOVER

R/L USH 45

CANOPY

BLDG

LEFT TURN LANE TO BE CLOSED DURING CROSSOVER REMOVAL AND MEDIAN RESTORATION

COLLEGE AVENUE

ROAD WORK AHEAD W20-1A

PLACE SIGN 500' PRIOR TO WORK AREA ALONG WHITNALL EDGE ROAD, VENTURE DRIVE, AND COLLEGE AVENUE

R/L VENTURE DRIVE

R/L WHITNALL EDGE ROAD

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 4	SHEET 291	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S4.DWG
LAYOUT NAME - 026006-S4

PLOT DATE : 5/31/2023 2:04 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

PLACE SIGN 500' PRIOR TO WORK AREA ALONG KELM ROAD

ROAD WORK AHEAD
W20-1A

KELM ROAD

N

W4-2L
36"X36"

LEFT LANE CLOSED AHEAD
W20-5SA

ROAD WORK AHEAD
W20-1A

350' 350'

W4-2L WILL BE PLACED AT 350' PRIOR TO START OF SB LANE CLOSURE.
ENGINEER MAY ADJUST LOCATIONS FOR FIELD CONDITIONS.

CANOPY

16 TRANSMISSION CENTER

PCMS

MATCH LINE STA 975+50

2 6 5 3

12' 12' 50' TYP.

320' LANE DROP

25' TYP.

5' TYP.

975 977 978 979 980 981 982 983

R/L USH 45

1 1 2

A/C

1

END ROAD WORK
G20-2A
48"X24"

500' AFTER NB WORK AREA

KAY PKWY

LEGEND

- BARRICADES TYPE III
- BARRICADES TYPE III WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- ARROW BOARDS
- SIGNS ON PERMANENT SUPPORT
- SIGNS ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (M) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS
- (X) MOVING SIGNS TYPE II & MOVING SMALL SIGN SUPPORTS TO OFF SITE LOCATION. PLACE SIGN BACK IN ORIGINAL LOCATION AT COMPLETION OF PROJECT PER SIGNING PLANS.

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- COMPLETED CONSTRUCTION
- TEMPORARY DELINEATOR (MATCH ADJ. PAVEMENT MARKING COLOR
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE - 12.5-FT LINE, 37.5-FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE - 3-FT LINE, 9-FT SKIP)
6. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
7. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
8. TEMPORARY MARKING ARROW PAINT (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH

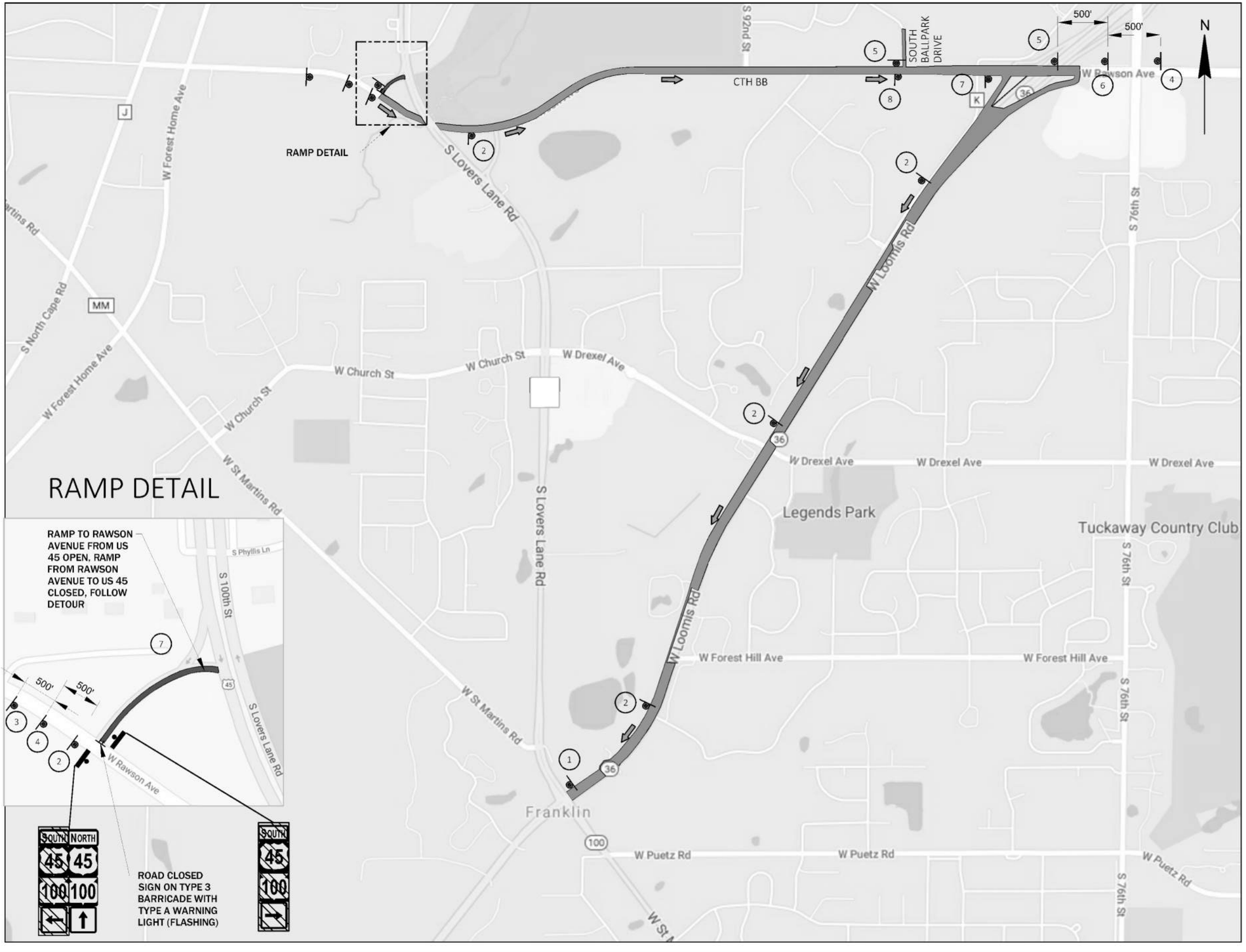
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 4	SHEET 292	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\026001-S4.DWG
LAYOUT NAME - 026007-S4

PLOT DATE : 5/31/2023 2:04 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



GENERAL NOTES FOR DETOUR SIGNING

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS

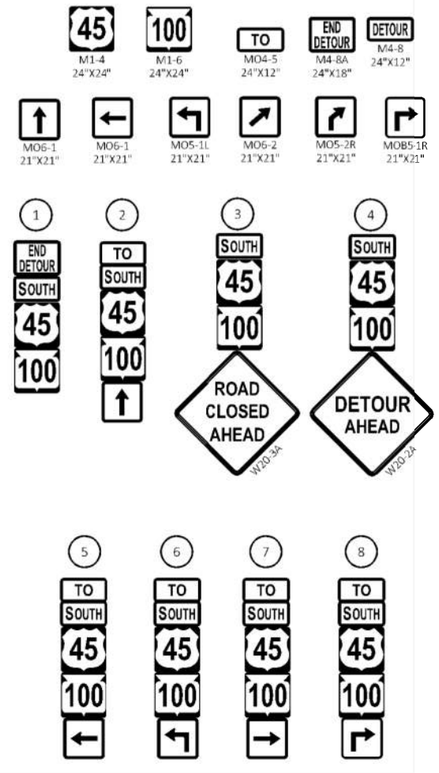
ALL SIGNS INAPPROPRIATE TO THE TRAFFIC CONTROL ZONE SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER

THE ERECTION AND PLACEMENT OF SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

DETOUR SIGNING SHALL BE PERFORMED BY THE CONTRACTOR

LEGEND

- PROPOSED SIGN AND SIGN SUPPORT
- DETOUR ROUTE
- WORK ZONE
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- EXISTING SIGN POST

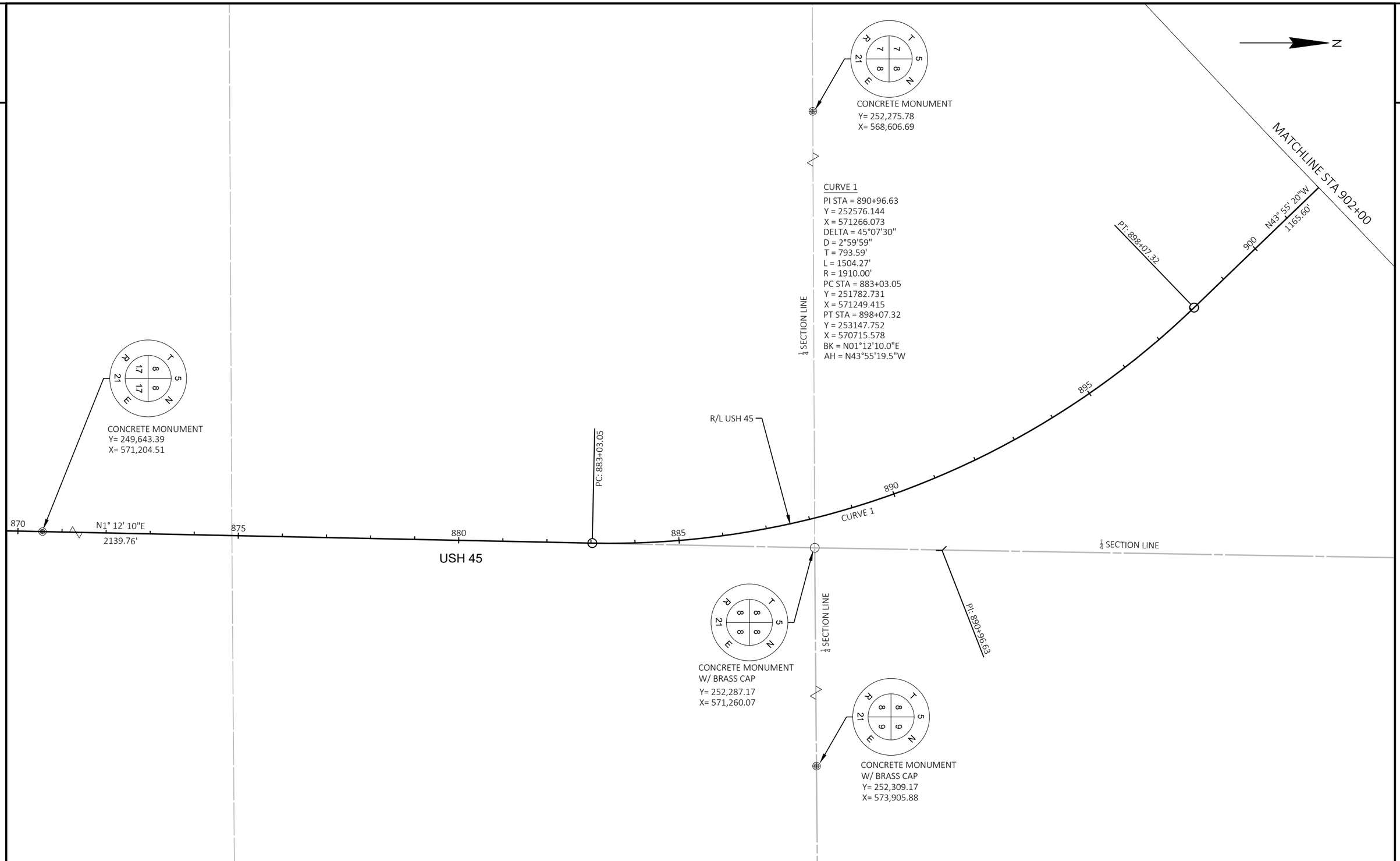


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	DETOUR PLAN	SHEET	E

FILE NAME: X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\027001-DT. DWG
LAYOUT NAME - 027001-01

PLOT DATE: 4/27/2023 11:01 AM PLOT BY: THOMAS LEGEAR PLOT NAME: PLOT SCALE: Custom

2



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 294	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027201

PLOT DATE : 4/25/2023 11:01 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

CURVE 2
PI STA = 918+35.32
Y = 254608.485
X = 569308.798
DELTA = 44°56'31"
D = 2°44'53"
T = 862.40'
L = 1635.44'
R = 2085.00'
PC STA = 909+72.92
Y = 253987.316
X = 569907.024
PT STA = 926+08.36
Y = 255470.744
X = 569324.146
BK = N43°55'19.5"W
AH = N01°01'11.0"E
S.E. = 3.5%

CURVE 3
PI STA = 247+44.86
Y = 254832.657
X = 569132.358
DELTA = 40°10'27"
D = 12°05'26"
T = 173.30'
L = 332.28'
R = 473.89'
PC STA = 245+71.56
Y = 254691.463
X = 569031.878
PT STA = 249+03.84
Y = 254875.720
X = 569300.219
BK = N35°26'15.2"E
AH = N75°36'41.7"E
S.E. = 2.0%

CONCRETE MONUMENT
W/ SEWRPC CAP
Y= 254,918.89
X= 568,651.03

T 6 N R 21 E 7 8 5 5

N

1/4 SECTION LINE

1/16 SECTION LINE

BP: 244+71.89
Y= 254,610.25
X= 568,974.09

PI: 245+71.56

245
N35° 26' 15"E
99.67'

CURVE 3

RAWSON NW RAMP

PI: 247+44.86

R/L RAWSON
NW RAMP

PI: 918+35.32

PT: 249+03.84

CP 101

N75° 36' 42"E
91.96'

920

USH 45 STA 923+55.51 =
POB PHYLLIS LANE STA 300+00.00
Y= 255,218.28
X= 569,334.97

BP: 325+40.08
Y= 255,198.99
X= 569,260.59

PI: 326+77.06

R/L FRONTAGE ROAD WEST

PT: 328+13.68

N1° 01' 11"E
204.44'

330

EP: 330+18.12
Y= 255,676.54
X= 569,251.80

CURVE 6

BM 1

BM 2

FRONTAGE ROAD WEST

925

PT: 926+08.36

930

N1° 01' 11"E
1574.85'

BM 3

USH 45 STA 933+80.24 =
POB HERDA PLACE STA 400+00.00
Y= 256,242.50
X= 569,337.88

CP 102

MATCHLINE STA 935+00

BEGIN PROJECT
STA 914+64 SB
MATCH EXISTING
SAW CUT REQ'D

R/L USH 45

CURVE 2

915

USH 45

PC: 909+72.92

910

BEGIN PROJECT
STA 913+89 NB
MATCH EXISTING
SAW CUT REQ'D

N89° 30' 16"E
102.06'

PI: 351+25.60

CURVE 7

PC: 301+02.06

355

N1° 01' 11"E
773.95'

360

FRONTAGE ROAD EAST

PT: 352+50.86

R/L FRONTAGE ROAD EAST

PHYLLIS LANE STA 300+76.35 =
POB FRONTAGE ROAD EAST
STA 350+00.00
Y= 255,218.94
X= 569,411.32

302

PHYLLIS LANE

CURVE 5

304

PT: 304+73.64

EP: 304+99.40
Y= 255,427.88
X= 569,749.46

N27° 04' 40"E
25.75'

PI: 303+08.71

R/L PHYLLIS LANE

USH 45 STA 920+31.21 =
POE RAWSON NW RAMP
STA 250+00.00
Y= 254,899.62
X= 569,393.36

POE FRONTAGE ROAD EAST STA 360+24.82 =
HERDA PLACE STA 400+76.03
Y= 256,243.22
X= 569,413.91

500.00'

N89° 27' 26"E

R/L HERDA PLACE

HERDA PLACE

EP: 405+00.00
Y= 256,247.24
X= 569,837.86

1/16 SECTION LINE

1/4 SECTION LINE

1/16 SECTION LINE

1/16 SECTION LINE

CONCRETE MONUMENT
W/ SEWRPC CAP
Y= 254,938.62
X= 571,305.02

T 5 N R 21 E 8 5 8 5

MATCHLINE STA 902+00

BP: 200+00.00

905

N43° 55' 20"W
1165.60'

USH 45 STA 903+12.45 =
POB RAWSON SE RAMP STA 200+00.00
Y= 253,511.59
X= 570,365.18

PC: 201+24.74

R/L RAWSON
SE RAMP

N43° 14' 52"E
124.74'

202

RAWSON SE RAMP

204

CURVE 4

206

PT: 206+22.82

EP: 207+22.23
Y= 254,160.51
X= 570,573.20

N9° 35' 46"W
99.41'

PI: 203+93.08

CURVE 4
PI STA = 203+93.08
Y = 253797.905
X = 570634.501
DELTA = 52°50'38"
D = 10°36'34"
T = 268.34'
L = 498.08'
R = 540.05'
PC STA = 201+24.74
Y = 253602.448
X = 570450.648
PT STA = 206+22.82
Y = 254062.489
X = 570589.769
BK = N43°14'52.0"E
AH = N09°35'46.1"W
S.E. = 2.0%

CURVE 5
PI STA = 303+08.71
Y = 255220.950
X = 569643.670
DELTA = 62°25'36"
D = 16°48'01"
T = 206.65'
L = 371.58'
R = 341.04'
PC STA = 301+02.06
Y = 255219.163
X = 569437.028
PT STA = 304+73.64
Y = 255404.949
X = 569737.737
BK = N89°30'16.0"E
AH = N27°04'39.9"E
S.E. = N/A

CURVE 6
PI STA = 326+77.06
Y = 255335.165
X = 569245.719
DELTA = 7°15'15"
D = 2°39'05"
T = 136.98'
L = 273.60'
R = 2161.00'
PC STA = 325+40.08
Y = 255198.993
X = 569260.592
PT STA = 328+13.68
Y = 255472.125
X = 569248.158
BK = N06°14'00.8"W
AH = N01°01'13.8"E
S.E. = N/A

CURVE 7
PI STA = 351+25.60
Y = 255343.816
X = 569397.899
DELTA = 7°09'16"
D = 2°51'07"
T = 125.60'
L = 250.86'
R = 2009.00'
PC STA = 350+00.00
Y = 255218.940
X = 569411.321
PT STA = 352+50.86
Y = 255469.391
X = 569400.134
BK = N06°08'05.3"W
AH = N01°01'11.1"E
S.E. = 2.0%

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 295	E

2

N

CURVE 8
PI STA = 947+62.96
Y = 257625.006
X = 569362.491
DELTA = 28°21'15"
D = 2°29'48"
T = 579.75'
L = 1135.74'
R = 2295.00'
PC STA = 941+83.21
Y = 257045.348
X = 569352.173
PT STA = 953+18.95
Y = 258140.021
X = 569096.278
BK = N01°01'11.0"E
AH = N27°20'04.3"W
S.E. = 2.0%

CURVE 9
PI STA = 544+81.23
Y = 258073.680
X = 568659.712
DELTA = 28°44'44"
D = 17°54'18"
T = 82.00'
L = 160.55'
R = 320.00'
PC STA = 543+99.23
Y = 258143.831
X = 568617.251
PT STA = 545+59.77
Y = 258032.595
X = 568730.677
BK = S31°11'08.5"E
AH = S59°55'52.4"E

CURVE 10
PI STA = 547+55.48
Y = 257934.539
X = 568900.046
DELTA = 52°23'44"
D = 17°54'18"
T = 157.44'
L = 292.63'
R = 320.00'
PC STA = 545+98.04
Y = 258013.424
X = 568763.790
PT STA = 548+90.67
Y = 257994.350
X = 569045.686
BK = S59°55'52.4"E
AH = N67°40'23.9"E

CONCRETE MONUMENT
W/ SEWRPC CAP
Y= 257,564.84
X= 568,699.34

R/L SPEEDWAY DRIVE
PI: 544+81.23
199.23'
S31° 11' 09"E
BP: 542+00.00
Y= 258,314.27
X= 568,514.09
PC: 543+99.23
CURVE 9
545
38.26'
S59° 55' 52"E
PT: 545+59.77
PC: 545+98.04
SPEEDWAY DRIVE
SECTION LINE
SECTION LINE
MATCHLINE STA 960+00
PI: 547+55.48
CURVE 10
PC: 955+38.00
CURVE 11
PT: 953+18.95
CP 104
BM 6
PT: 548+90.67
R/L USH 45
N67° 40' 24"E
109.33'
955
N27° 20' 04"W
219.04'
USH 45 STA 952+03.18 =
SPEEDWAY DRIVE STA 550+00.00
Y= 258,035.88
X= 569,146.82
950
CURVE 8
N67° 40' 24"E
228.63'
EP: 552+28.63
Y= 258,122.74
X= 569,358.31

BP: 445+00.00
Y= 256,882.09
X= 568,849.33
446
500.00'
N89° 38' 04"E
448
CORTEZ ROAD
PC: 941+83.21
R/L CORTEZ ROAD
USH 45 STA 940+23.12 =
POE CORTEZ ROAD STA 450+00.00
Y= 256,885.28
X= 569,349.32
BM 4
MATCHLINE STA 935+00
935
N1° 01' 11"E
1574.85'
940
USH 45
CP 103
USH 45 STA 940+25.82 =
POB CORTEZ CIRCLE (SOUTH)
STA 450+00.00
Y= 256,887.98
X= 569,349.37
R/L CORTEZ CIRCLE (SOUTH)
452
400.00'
S88° 59' 32"E
CORTEZ CIRCLE (SOUTH)
EP: 454+00.00
Y= 256,880.95
X= 569,749.31

BP: 497+00.00
Y= 257,403.48
X= 569,027.22
R/L PRAIRIEWOOD LANE
300.00'
N79° 27' 31"E
PRAIRIE WOOD LANE
USH 45 STA 945+97.88 =
POB PRAIRIE WOOD
LANE STA 500+00.00
Y= 257,458.36
X= 569,322.16
BM 5
945
USH 45 STA 945+93.78 =
POB CORTEZ CIRCLE
(NORTH) STA 500+00.00
Y= 257,454.32
X= 569,322.82
400.00'
N89° 50' 52"E
502
CORTEZ CIRCLE (NORTH)
R/L CORTEZ CIRCLE (NORTH)
504
EP: 504+00.00
Y= 257,455.38
X= 569,722.82
PI: 949+29.47

CONCRETE MONUMENT
W/ SEWRPC CAP
Y= 257,573.74
X= 571,355.01

1/16 SECTION LINE

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 296	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027203
PLOT DATE : 4/25/2023 11:01 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

CURVE 11

PI STA = 961+17.85
Y = 258849.712
X = 568729.438
DELTA = 28°21'32"
D = 2°29'48"
T = 579.85'
L = 1135.93'
R = 2295.00'
PC STA = 955+38.00
Y = 258334.607
X = 568995.696
PT STA = 966+73.93
Y = 259429.471
X = 568739.805
BK = N27°20'04.3"W
AH = N01°01'28.1"E
S.E. = 2.0%

CURVE 12

PI STA = 602+32.30
Y = 259044.681
X = 568996.921
DELTA = 27°34'55"
D = 19°05'55"
T = 73.64'
L = 144.42'
R = 300.00'
PC STA = 601+58.66
Y = 259046.075
X = 568923.297
PT STA = 603+03.08
Y = 259009.356
X = 569061.531
BK = S88°54'53.9"E
AH = S61°19'59.4"E

CONCRETE MONUMENT
W/ SEWRPC CAP
CLOSING CORNER
Y= 260,047.57
X= 566,039.46

CONCRETE
MONUMENT W/ CAP
Y= 260,076.62
X= 568,717.92

CONCRETE MONUMENT
W/ SEWRPC CAP
Y= 262,719.56
X= 568,766.80

CONCRETE MONUMENT
CLOSING CORNER
Y= 260,077.00
X= 568,743.32

CONCRETE MONUMENT
W/ SEWRPC CAP
Y= 260,101.89
X= 571,396.06

N

1/16 SECTION LINE

SECTION LINE

PI: 961+17.85

MATCHLINE STA 960+00

USH 45 STA 962+92.28 =
POB WHITNALL EDGE
ROAD STA 600+00.00
Y= 259,049.08
X= 568,764.67

CP 105

BM 7

PT: 966+73.93

END PROJECT
STA 968+80
MATCH EXISTING
SAW CUT REQ'D

BM 8

965

970

975

980

CURVE 11

BP: 600+00.00

USH 45

N1° 01' 28"E
1686.78'

R/L USH 45

EP: 983+60.71
Y= 261,115.98
X= 568,769.96

USH 45 STA 966+93.91 =
POB VENTURE DRIVE
STA 650+00.00
Y= 259,449.45
X= 568,740.16

CP 106

R/L VENTURE DRIVE

WHITNALL EDGE ROAD

158.66'
S88° 54' 54"E

PC: 601+58.66

209.12
CURVE

PI: 602+32.30

196.92'
S61° 19' 59"E

604

PT: 603+03.08

R/L WHITNALL EDGE ROAD

EP: 605+00.00
Y= 258,914.89
X= 569,234.32

652
N89° 24' 07"E
500.00'
654

VENTURE DRIVE

EP: 655+00.00
Y= 259,454.67
X= 569,240.14

CITY OF FRANKLIN

VILLAGE OF HALES CORNERS

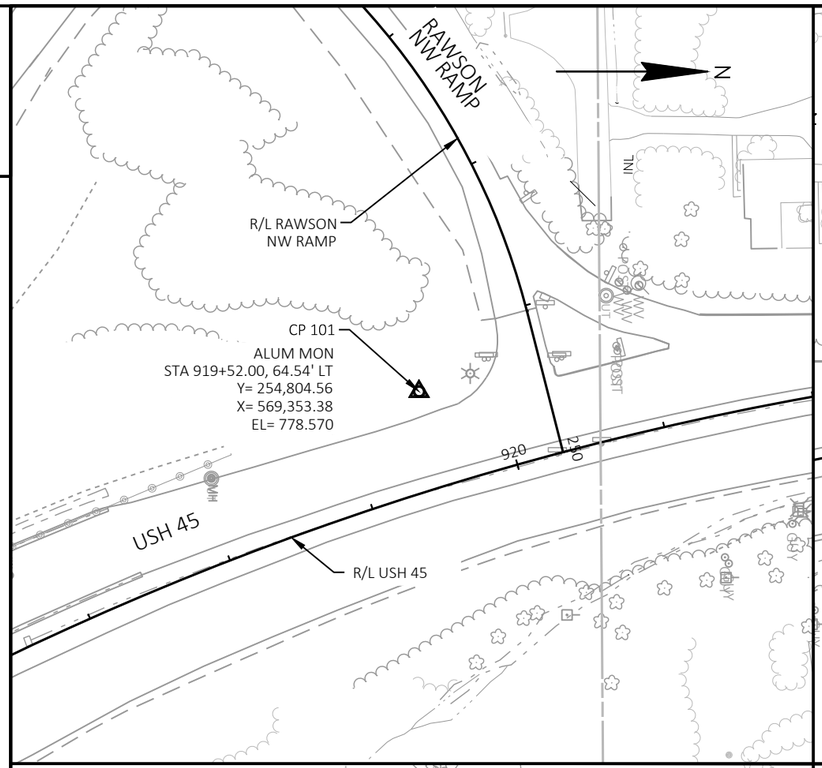
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 297	E

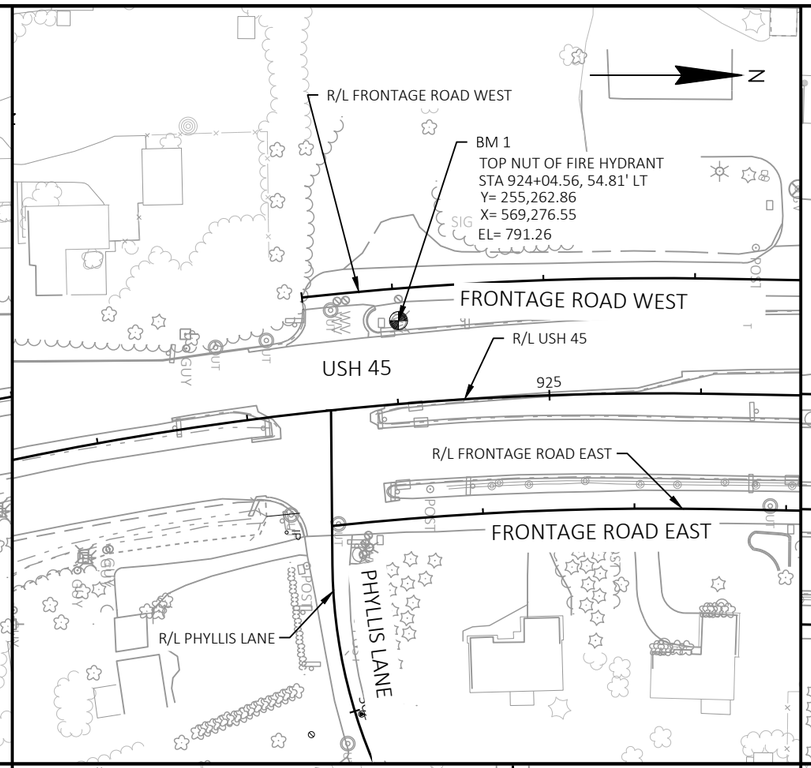
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027204

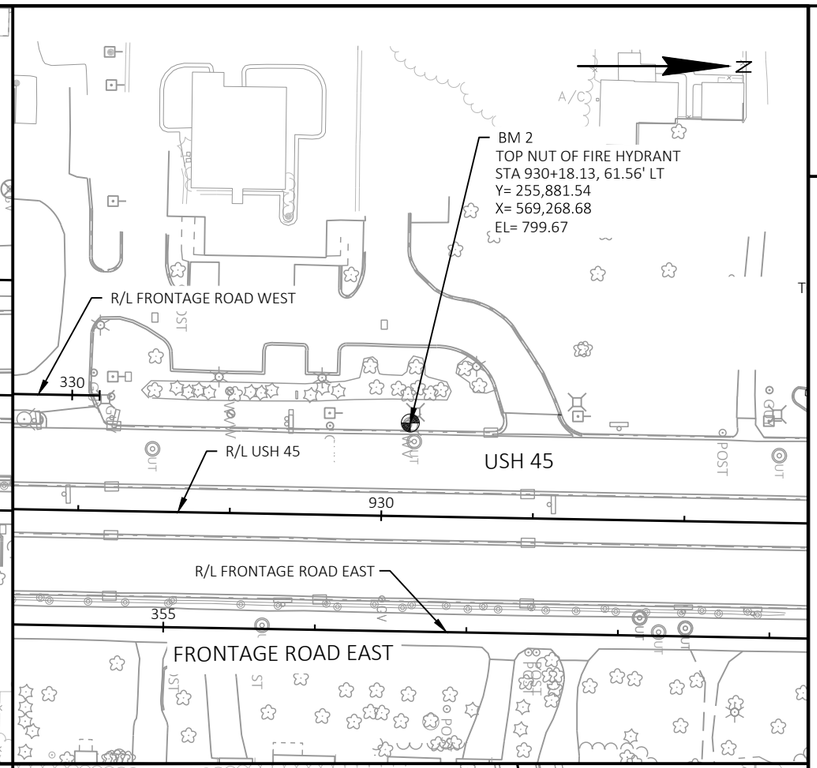
PLOT DATE : 4/25/2023 11:01 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:200 FT

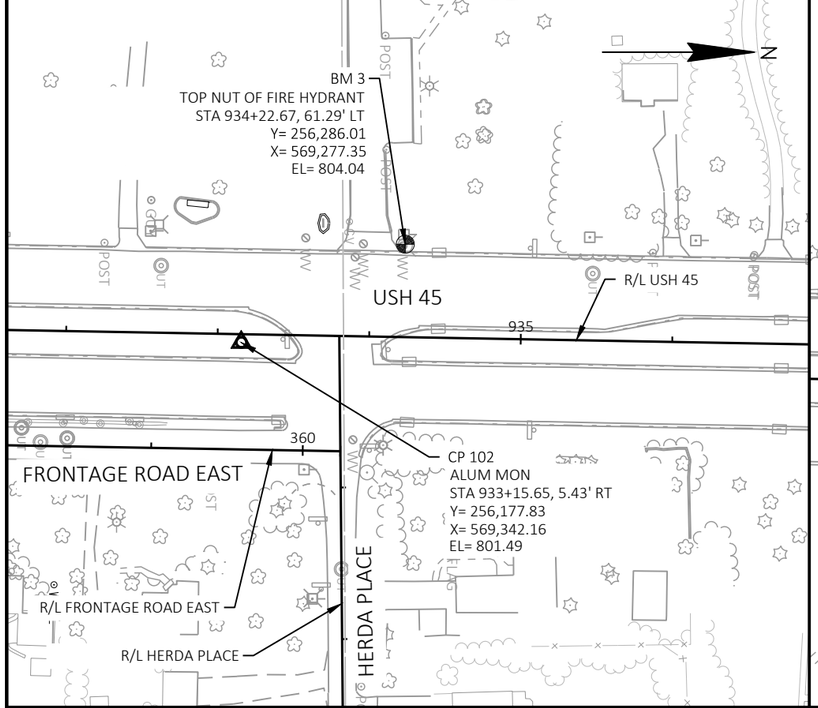
WISDOT/CADDS SHEET 42

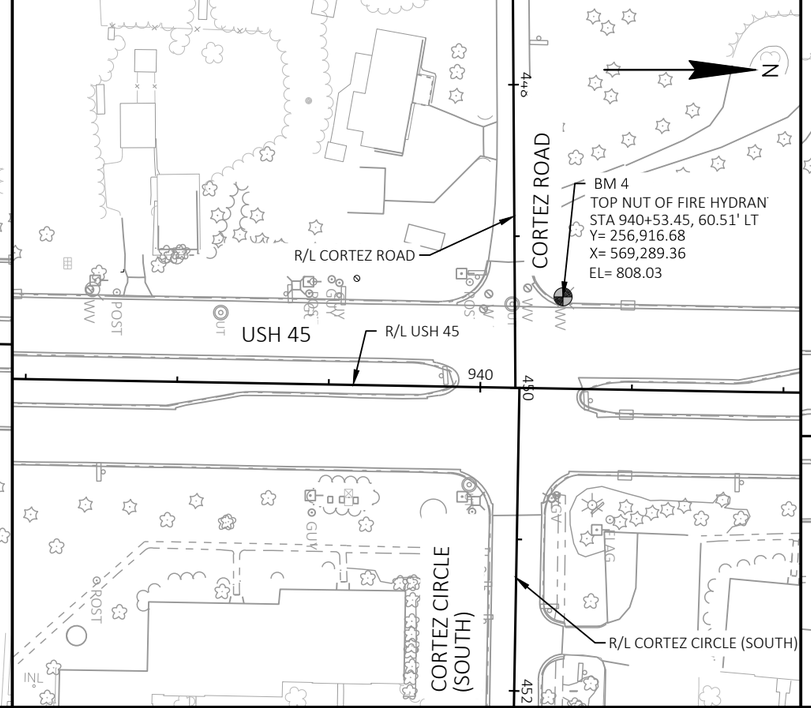
2

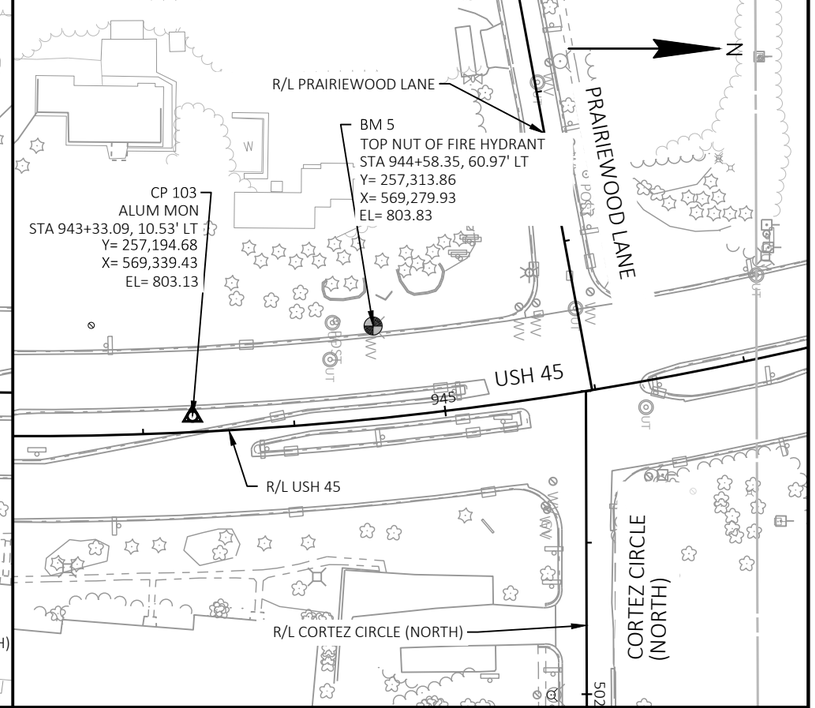






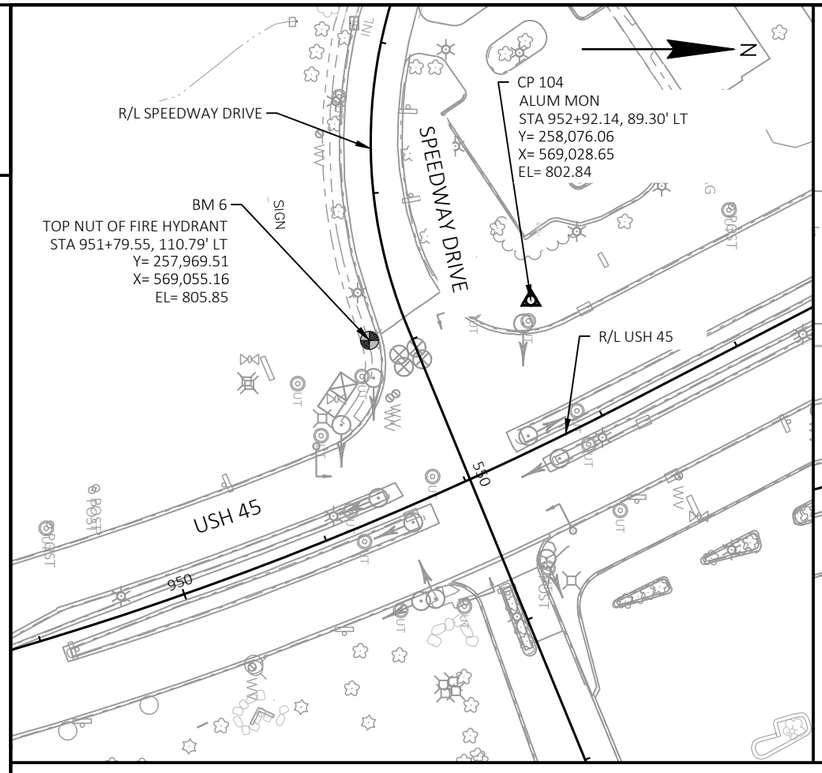


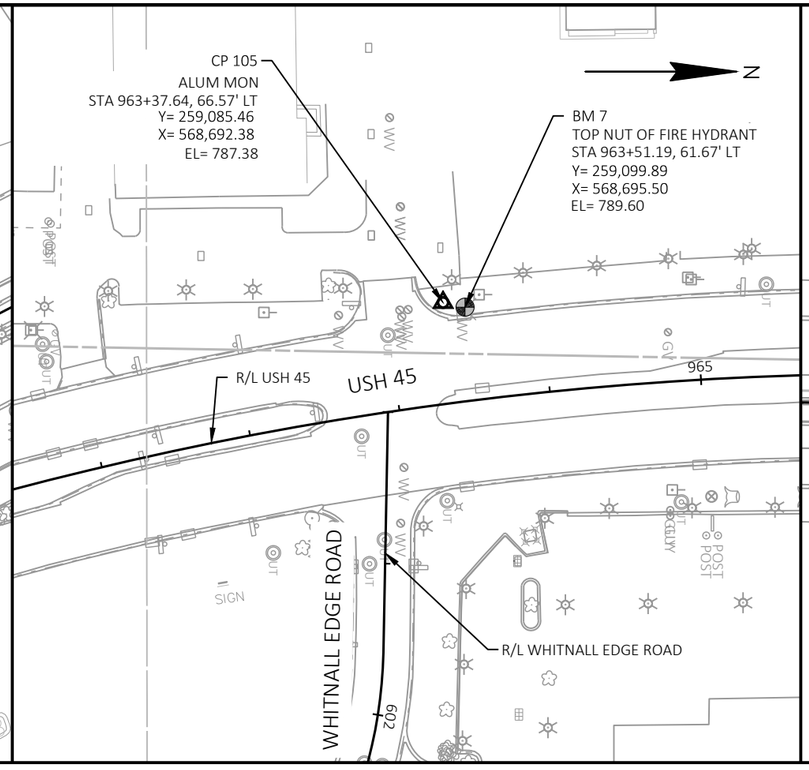


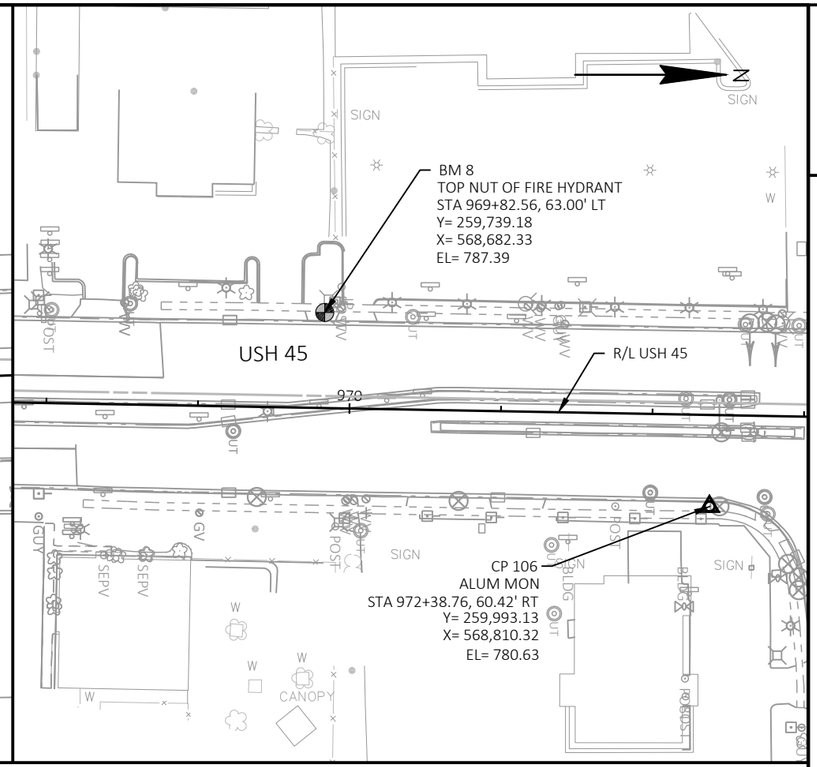


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CONTROL POINT DATA SHEETS	SHEET 298	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\027201-AD-CP.DWG
LAYOUT NAME - 027201-cp
PLOT DATE : 4/25/2023 11:04 AM
PLOT BY : THOMAS LEGEAR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42







2

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CONTROL POINT DATA SHEETS	SHEET 299	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\027201-AD-CP.DWG
LAYOUT NAME - 027202-cp
PLOT DATE : 4/25/2023 11:04 AM
PLOT BY : THOMAS LEGEAR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2040-14-70

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	201.0105	Clearing	STA	38.000	38.000
0006	201.0205	Grubbing	STA	38.000	38.000
0008	201.0210	Grubbing	SY	2,727.000	2,727.000
0010	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0012	204.0100	Removing Concrete Pavement	SY	55,655.000	55,655.000
0014	204.0120	Removing Asphaltic Surface Milling	SY	3,361.000	3,361.000
0016	204.0150	Removing Curb & Gutter	LF	1,805.000	1,805.000
0018	204.0155	Removing Concrete Sidewalk	SY	1,842.000	1,842.000
0020	204.0165	Removing Guardrail	LF	1,857.000	1,857.000
0022	204.0185	Removing Masonry	CY	2.000	2.000
0024	204.0195	Removing Concrete Bases	EACH	32.000	32.000
0026	204.0210	Removing Manholes	EACH	24.000	24.000
0028	204.0215	Removing Catch Basins	EACH	3.000	3.000
0030	204.0220	Removing Inlets	EACH	49.000	49.000
0032	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	2,302.000	2,302.000
0034	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	103.000	103.000
0036	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	784.000	784.000
0038	204.0245	Removing Storm Sewer (size) 04. 30-Inch	LF	185.000	185.000
0040	204.0245	Removing Storm Sewer (size) 05. 36-Inch	LF	2,425.000	2,425.000
0042	204.0246	Removing Ancillary Structure (structure) 01. S-40-780	EACH	1.000	1.000
0044	204.0260	Abandoning Inlets	EACH	4.000	4.000
0046	204.0280	Sealing Pipes	EACH	13.000	13.000
0048	204.0291.S	Abandoning Sewer	CY	5.000	5.000
0050	204.9060.S	Removing (item description) 01. Removing Lighting Units	EACH	9.000	9.000
0052	204.9060.S	Removing (item description) 02. Removing Traffic Signals, USH 45 and Speedway Dr	EACH	1.000	1.000
0054	204.9060.S	Removing (item description) 03. Removing Loop Detector Wire and Lead in Cable, USH 45 and Speedway Dr	EACH	1.000	1.000
0056	205.0100	Excavation Common	CY	67,120.000	67,120.000
0058	209.2500	Backfill Granular Grade 2	TON	5,530.000	5,530.000
0060	213.0100	Finishing Roadway (project) 01. 2040-14-70	EACH	1.000	1.000
0062	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	53,773.000	53,773.000
0064	310.0110	Base Aggregate Open-Graded	TON	346.000	346.000
0066	311.0110	Breaker Run	TON	56,493.000	56,493.000
0068	371.2000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	EACH	48.000	48.000
0070	390.0403	Base Patching Concrete Shes	SY	48.000	48.000
0072	405.0100	Coloring Concrete WisDOT Red	CY	32.000	32.000
0074	405.1000	Stamping Colored Concrete	CY	920.000	920.000
0076	416.0160	Concrete Driveway 6-Inch	SY	642.000	642.000
0078	455.0605	Tack Coat	GAL	9,097.000	9,097.000
0080	460.2000	Incentive Density HMA Pavement	DOL	15,290.000	15,290.000
0082	460.6223	HMA Pavement 3 MT 58-28 S	TON	17,474.000	17,474.000
0084	460.6224	HMA Pavement 4 MT 58-28 S	TON	6,407.000	6,407.000
0086	465.0105	Asphaltic Surface	TON	130.000	130.000
0088	465.0110	Asphaltic Surface Patching	TON	4.000	4.000
0090	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	106.000	106.000
0092	465.0125	Asphaltic Surface Temporary	TON	1,216.000	1,216.000
0094	465.0310	Asphaltic Curb	LF	480.000	480.000
0096	465.0315	Asphaltic Flumes	SY	28.000	28.000

2040-14-70

Line	Item	Item Description	Unit	Total	Qty
0098	520.2015	Culvert Pipe Temporary 15-Inch	LF	135.000	135.000
0100	520.8000	Concrete Collars for Pipe	EACH	5.000	5.000
0102	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	104.000	104.000
0104	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000
0106	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	4.000	4.000
0108	531.2048	Drilling Shaft 48-Inch	LF	23.000	23.000
0110	531.5130	Foundation Single-Shaft Type MC-III (structure) 01. S-40-3098	EACH	1.000	1.000
0112	532.5330	Truss Cantilever 2-Chord Type III (structure) 01.S-40-3098	EACH	1.000	1.000
0114	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	1,478.000	1,478.000
0116	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	22,993.000	22,993.000
0118	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	2,591.000	2,591.000
0120	601.0582	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	LF	240.000	240.000
0122	601.0600	Concrete Curb Pedestrian	LF	218.000	218.000
0124	602.0410	Concrete Sidewalk 5-Inch	SF	59,328.000	59,328.000
0126	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	480.000	480.000
0128	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	94.000	94.000
0130	603.1232	Concrete Barrier Type S32A	LF	893.000	893.000
0132	606.0200	Riprap Medium	CY	7.000	7.000
0134	606.0300	Riprap Heavy	CY	56.000	56.000
0136	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	2,189.000	2,189.000
0138	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	635.000	635.000
0140	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	191.000	191.000
0142	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	807.000	807.000
0144	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	943.000	943.000
0146	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	2,375.000	2,375.000
0148	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	115.000	115.000
0150	611.0530	Manhole Covers Type J	EACH	18.000	18.000
0152	611.0535	Manhole Covers Type J-Special	EACH	1.000	1.000
0154	611.0610	Inlet Covers Type BW	EACH	9.000	9.000
0156	611.0612	Inlet Covers Type C	EACH	5.000	5.000
0158	611.0624	Inlet Covers Type H	EACH	102.000	102.000
0160	611.0627	Inlet Covers Type HM	EACH	8.000	8.000
0162	611.0651	Inlet Covers Type S	EACH	1.000	1.000
0164	611.0666	Inlet Covers Type Z	EACH	5.000	5.000
0166	611.2005	Manholes 5-FT Diameter	EACH	4.000	4.000
0168	611.2006	Manholes 6-FT Diameter	EACH	18.000	18.000
0170	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000
0172	611.3003	Inlets 3-FT Diameter	EACH	5.000	5.000
0174	611.3004	Inlets 4-FT Diameter	EACH	10.000	10.000
0176	611.3225	Inlets 2x2.5-FT	EACH	10.000	10.000
0178	611.3230	Inlets 2x3-FT	EACH	99.000	99.000
0180	611.8120.S	Cover Plates Temporary	EACH	16.000	16.000
0182	612.0106	Pipe Underdrain 6-Inch	LF	6,120.000	6,120.000
0184	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	209.000	209.000
0186	614.0800	Crash Cushions Permanent	EACH	2.000	2.000
0188	614.2300	MGS Guardrail 3	LF	88.000	88.000
0190	614.2500	MGS Thrie Beam Transition	LF	40.000	40.000
0192	614.2610	MGS Guardrail Terminal EAT	EACH	1.000	1.000
0194	618.0100	Maintenance And Repair of Haul Roads (project) 01. 2040-14-70	EACH	1.000	1.000

2040-14-70

Line	Item	Item Description	Unit	Total	Qty
0196	619.1000	Mobilization	EACH	1.000	1.000
0198	620.0300	Concrete Median Sloped Nose	SF	1,677.000	1,677.000
0200	624.0100	Water	MGAL	500.000	500.000
0202	625.0100	Topsoil	SY	21,555.000	21,555.000
0204	625.0500	Salvaged Topsoil	SY	8,110.000	8,110.000
0206	627.0200	Mulching	SY	15,380.000	15,380.000
0208	628.1504	Silt Fence	LF	3,755.000	3,755.000
0210	628.1520	Silt Fence Maintenance	LF	390.000	390.000
0212	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0214	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0216	628.2006	Erosion Mat Urban Class I Type A	SY	14,645.000	14,645.000
0218	628.7010	Inlet Protection Type B	EACH	11.000	11.000
0220	628.7015	Inlet Protection Type C	EACH	165.000	165.000
0222	628.7560	Tracking Pads	EACH	8.000	8.000
0224	629.0210	Fertilizer Type B	CWT	14.600	14.600
0226	630.0130	Seeding Mixture No. 30	LB	970.000	970.000
0228	630.0170	Seeding Mixture No. 70	LB	30.000	30.000
0230	630.0500	Seed Water	MGAL	1,251.000	1,251.000
0232	633.1000	Delineators Barrier Wall	EACH	10.000	10.000
0234	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	153.000	153.000
0236	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	8.000	8.000
0238	637.2210	Signs Type II Reflective H	SF	1,196.830	1,196.830
0240	637.2215	Signs Type II Reflective H Folding	SF	67.140	67.140
0242	637.2230	Signs Type II Reflective F	SF	103.000	103.000
0244	638.2102	Moving Signs Type II	EACH	133.000	133.000
0246	638.2602	Removing Signs Type II	EACH	118.000	118.000
0248	638.3000	Removing Small Sign Supports	EACH	122.000	122.000
0250	638.4000	Moving Small Sign Supports	EACH	94.000	94.000
0252	643.0300	Traffic Control Drums	DAY	50,914.000	50,914.000
0254	643.0420	Traffic Control Barricades Type III	DAY	1,460.000	1,460.000
0256	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	231.000	231.000
0258	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	231.000	231.000
0260	643.0715	Traffic Control Warning Lights Type C	DAY	3,720.000	3,720.000
0262	643.0800	Traffic Control Arrow Boards	DAY	394.000	394.000
0264	643.0900	Traffic Control Signs	DAY	5,764.000	5,764.000
0266	643.0920	Traffic Control Covering Signs Type II	EACH	22.000	22.000
0268	643.1050	Traffic Control Signs PCMS	DAY	480.000	480.000
0270	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	115,245.000	115,245.000
0272	643.3250	Temporary Marking Line Removable Tape 8-Inch	LF	6,610.000	6,610.000
0274	643.3505	Temporary Marking Arrow Paint	EACH	7.000	7.000
0276	643.3805	Temporary Marking Stop Line Paint 18-Inch	LF	129.000	129.000
0278	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	193.000	193.000
0280	643.3950	Temporary Marking Diagonal Removable Tape 12-Inch	LF	180.000	180.000
0282	643.5000	Traffic Control	EACH	1.000	1.000
0284	644.1430	Temporary Pedestrian Surface Plate	SF	1,905.000	1,905.000
0286	644.1601	Temporary Pedestrian Curb Ramp	DAY	240.000	240.000
0288	644.1605	Temporary Pedestrian Detectable Warning Field	SF	275.000	275.000
0290	644.1810	Temporary Pedestrian Barricade	LF	245.000	245.000
0292	645.0111	Geotextile Type DF Schedule A	SY	2,720.000	2,720.000

2040-14-70

Line	Item	Item Description	Unit	Total	Qty
0294	645.0120	Geotextile Type HR	SY	94.000	94.000
0296	646.1020	Marking Line Epoxy 4-Inch	LF	32,335.000	32,335.000
0298	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	650.000	650.000
0300	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	6,770.000	6,770.000
0302	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	5,800.000	5,800.000
0304	646.5020	Marking Arrow Epoxy	EACH	75.000	75.000
0306	646.5120	Marking Word Epoxy	EACH	50.000	50.000
0308	646.5220	Marking Symbol Epoxy	EACH	10.000	10.000
0310	646.6120	Marking Stop Line Epoxy 18-Inch	LF	580.000	580.000
0312	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	39,755.000	39,755.000
0314	646.6468	Cold Weather Marking Epoxy 8-Inch	LF	5,800.000	5,800.000
0316	646.7120	Marking Diagonal Epoxy 12-Inch	LF	945.000	945.000
0318	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,810.000	1,810.000
0320	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	810.000	810.000
0322	646.8120	Marking Curb Epoxy	LF	775.000	775.000
0324	646.8220	Marking Island Nose Epoxy	EACH	20.000	20.000
0326	646.9000	Marking Removal Line 4-Inch	LF	15,100.000	15,100.000
0328	646.9055	Marking Removal Line Grooved Contrast Permanent Tape 4-Inch	LF	285.000	285.000
0330	646.9100	Marking Removal Line 8-Inch	LF	3,220.000	3,220.000
0332	646.9200	Marking Removal Line Wide	LF	100.000	100.000
0334	646.9300	Marking Removal Special Marking	EACH	6.000	6.000
0336	650.4000	Construction Staking Storm Sewer	EACH	237.000	237.000
0338	650.4500	Construction Staking Subgrade	LF	5,490.000	5,490.000
0340	650.5000	Construction Staking Base	LF	5,490.000	5,490.000
0342	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	27,062.000	27,062.000
0344	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000
0346	650.7500	Construction Staking Concrete Barrier	LF	893.000	893.000
0348	650.8000	Construction Staking Resurfacing Reference	LF	5,490.000	5,490.000
0350	650.8501	Construction Staking Electrical Installations (project) 01. 2040-14-70	EACH	1.000	1.000
0352	650.9000	Construction Staking Curb Ramps	EACH	54.000	54.000
0354	650.9500	Construction Staking Sidewalk (project) 01. 2040-14-70	EACH	1.000	1.000
0356	650.9911	Construction Staking Supplemental Control (project) 01. 2040-14-70	EACH	1.000	1.000
0358	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	5,603.000	5,603.000
0360	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	2,728.000	2,728.000
0362	652.0615	Conduit Special 3-Inch	LF	150.000	150.000
0364	652.0800	Conduit Loop Detector	LF	1,057.000	1,057.000
0366	653.0135	Pull Boxes Steel 24x36-Inch	EACH	6.000	6.000
0368	653.0140	Pull Boxes Steel 24x42-Inch	EACH	22.000	22.000
0370	653.0905	Removing Pull Boxes	EACH	19.000	19.000
0372	654.0101	Concrete Bases Type 1	EACH	5.000	5.000
0374	654.0105	Concrete Bases Type 5	EACH	3.000	3.000
0376	654.0110	Concrete Bases Type 10	EACH	3.000	3.000
0378	654.0113	Concrete Bases Type 13	EACH	1.000	1.000
0380	654.0120	Concrete Bases Type 10-Special	EACH	2.000	2.000
0382	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000
0384	654.0230	Concrete Control Cabinet Bases Type L30	EACH	2.000	2.000
0386	655.0230	Cable Traffic Signal 5-14 AWG	LF	744.000	744.000
0388	655.0240	Cable Traffic Signal 7-14 AWG	LF	264.000	264.000
0390	655.0260	Cable Traffic Signal 12-14 AWG	LF	2,985.000	2,985.000

2040-14-70

Line	Item	Item Description	Unit	Total	Qty
0392	655.0320	Cable Type UF 2-10 AWG Grounded	LF	912.000	912.000
0394	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	2,432.000	2,432.000
0396	655.0610	Electrical Wire Lighting 12 AWG	LF	16,523.000	16,523.000
0398	655.0615	Electrical Wire Lighting 10 AWG	LF	1,185.000	1,185.000
0400	655.0620	Electrical Wire Lighting 8 AWG	LF	2,175.000	2,175.000
0402	655.0625	Electrical Wire Lighting 6 AWG	LF	21,240.000	21,240.000
0404	655.0640	Electrical Wire Lighting 1 AWG	LF	36.000	36.000
0406	655.0700	Loop Detector Lead In Cable	LF	5,258.000	5,258.000
0408	655.0800	Loop Detector Wire	LF	3,572.000	3,572.000
0410	655.0900	Traffic Signal EVP Detector Cable	LF	963.000	963.000
0412	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. USH 45 and Speedway Dr	EACH	1.000	1.000
0414	656.0401	Electrical Service Main Lugs Only Meter Pedestal (location) 01. LCCB-01	EACH	1.000	1.000
0416	656.0401	Electrical Service Main Lugs Only Meter Pedestal (location) 02. LCCB-02	EACH	1.000	1.000
0418	657.0100	Pedestal Bases	EACH	5.000	5.000
0420	657.0322	Poles Type 5-Aluminum	EACH	1.000	1.000
0422	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	1.000	1.000
0424	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	3.000	3.000
0426	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	1.000	1.000
0428	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	1.000	1.000
0430	658.0173	Traffic Signal Face 3S 12-Inch	EACH	14.000	14.000
0432	658.0174	Traffic Signal Face 4S 12-Inch	EACH	8.000	8.000
0434	658.0416	Pedestrian Signal Face 16-Inch	EACH	8.000	8.000
0436	658.0500	Pedestrian Push Buttons	EACH	8.000	8.000
0438	658.5070	Signal Mounting Hardware (location) 01. USH 45 and Speedway Dr	EACH	1.000	1.000
0440	659.1125	Luminaires Utility LED C	EACH	7.000	7.000
0442	659.2230	Lighting Control Cabinets 240/480 30-Inch	EACH	2.000	2.000
0444	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	43.000	43.000
0446	661.0201	Temporary Traffic Signals for Intersections (location) 01. USH 45 and Speedway Dr	EACH	1.000	1.000
0448	661.0300	Generators	DAY	1.000	1.000
0450	670.0101	Field System Integrator	EACH	1.000	1.000
0452	670.0201	ITS Documentation	EACH	1.000	1.000
0454	671.0132	Conduit HDPE 3-Duct 2-Inch	LF	1,963.000	1,963.000
0456	671.0232	Conduit HDPE Directional Bore 3-Duct 2-Inch	LF	51.000	51.000
0458	673.0105	Communication Vault Type 1	EACH	2.000	2.000
0460	678.0072	Install Fiber Optic Cable Outdoor Plant 72-CT	LF	2,491.000	2,491.000
0462	678.0200	Fiber Optic Splice Enclosure	EACH	1.000	1.000
0464	678.0300	Fiber Optic Splice	EACH	4.000	4.000
0466	678.0501	Communication System Testing	EACH	1.000	1.000
0468	678.0600	Install Ethernet Switches	EACH	1.000	1.000
0470	690.0150	Sawing Asphalt	LF	1,219.000	1,219.000
0472	690.0250	Sawing Concrete	LF	10,842.000	10,842.000
0474	715.0603	Incentive Strength Concrete Barrier	DOL	447.000	447.000
0476	740.0440	Incentive IRI Ride	DOL	12,500.000	12,500.000
0478	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	5,400.000	5,400.000
0480	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	11,400.000	11,400.000
0482	SPV.0060	Special 01. Remove Sanitary Sewer Manhole	EACH	1.000	1.000
0484	SPV.0060	Special 02. Relocate Hydrant Assembly	EACH	6.000	6.000
0486	SPV.0060	Special 03. Relocate & Replace Hydrant Valve & Box	EACH	3.000	3.000
0488	SPV.0060	Special 04. Relocate & Replace 8" Main Valve Box	EACH	1.000	1.000

2040-14-70

Line	Item	Item Description	Unit	Total	Qty
0490	SPV.0060	Special 05. Adjust Valve Box	EACH	31.000	31.000
0492	SPV.0060	Special 06. Adjust Hydrant Valve Box	EACH	18.000	18.000
0494	SPV.0060	Special 07. Adjust Hydrant Assembly	EACH	4.000	4.000
0496	SPV.0060	Special 08. Manhole Adjustment	EACH	10.000	10.000
0498	SPV.0060	Special 09. Replace Manhole Casting	EACH	10.000	10.000
0500	SPV.0060	Special 10. Section Corner Monuments	EACH	2.000	2.000
0502	SPV.0060	Special 11. Concrete Bases Type 5 Modified	EACH	60.000	60.000
0504	SPV.0060	Special 12. Construction Staking Water Main	EACH	9.000	9.000
0506	SPV.0060	Special 13. Lighting System Integrator	EACH	1.000	1.000
0508	SPV.0060	Special 14. Lighting System Survey	EACH	1.000	1.000
0510	SPV.0060	Special 15. Temporary Infrared EVP System for the Intersection of USH 45 and Speedway Dr	EACH	1.000	1.000
0512	SPV.0060	Special 16. Transport Traffic Signal and Intersection Lighting Materials	EACH	1.000	1.000
0514	SPV.0060	Special 17. Transport and Install State Furnished Traffic Signal Cabinet	EACH	1.000	1.000
0516	SPV.0060	Special 18. Transport and Install State Furnished EVP Detector Heads	EACH	1.000	1.000
0518	SPV.0060	Special 19. Install Poles Type 9 Special	EACH	1.000	1.000
0520	SPV.0060	Special 20. Install Poles Type 10	EACH	3.000	3.000
0522	SPV.0060	Special 21. Install Poles Type 10 Special	EACH	1.000	1.000
0524	SPV.0060	Special 22. Install Monotube Arms - 15 FT	EACH	2.000	2.000
0526	SPV.0060	Special 23. Install Monotube Arms - 30 FT	EACH	1.000	1.000
0528	SPV.0060	Special 24. Install Monotube Arms - 45 FT	EACH	2.000	2.000
0530	SPV.0060	Special 25. Install Luminaire Arms 15 FT Steel	EACH	6.000	6.000
0532	SPV.0060	Special 26. Lighting Pull Boxes Non-Metallic Franklin 13x24x18-Inch	EACH	62.000	62.000
0534	SPV.0060	Special 27. Decorative Lighting Pole and LED Luminaire Single	EACH	9.000	9.000
0536	SPV.0060	Special 28. Decorative Lighting Pole and LED Luminaire Twin	EACH	51.000	51.000
0538	SPV.0060	Special 29. Install Monotube Arms - 55 FT	EACH	1.000	1.000
0540	SPV.0060	Special 30. Transport and Install State Furnished Video Detection System	EACH	1.000	1.000
0542	SPV.0060	Special 31. Install Fiber Optic Communications in Cabinet USH 45 & Speedway Dr	EACH	1.000	1.000
0544	SPV.0060	Special 32. Lighting Units Salvaged	EACH	2.000	2.000
0546	SPV.0060	Special 33. Install Poles Type 12	EACH	1.000	1.000
0548	SPV.0060	Special 34. Field Office Type T	EACH	1.000	1.000
0550	SPV.0060	Special 35. Utility Line Opening (ULO)	EACH	30.000	30.000
0552	SPV.0060	Special 36. Temporary Apron Endwalls for Culvert Pipe 12-Inch	EACH	1.000	1.000
0554	SPV.0060	Special 37. Temp Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 15-Inch 6 to 1	EACH	2.000	2.000
0556	SPV.0090	Special 01. Insulate Water Main (Granular Backfill)	LF	148.000	148.000
0558	SPV.0090	Special 02. 8-Inch PVC Water Main (Granular Backfill)	LF	51.000	51.000
0560	SPV.0090	Special 03. 20-Inch Ductile Iron Water Main (Granular Backfill)	LF	49.000	49.000
0562	SPV.0090	Special 04. 6-Inch PVC Hydrant Lead	LF	95.000	95.000
0564	SPV.0090	Special 05. Fiber Optic Warning Tape	LF	2,491.000	2,491.000
0566	SPV.0090	Special 06. Temporary Precast Trench Drain	LF	306.000	306.000
0568	SPV.0165	Special 01. Wall Modular Block Gravity Landscape (STA 953+25)	SF	80.000	80.000
0570	SPV.0195	Special 01. Milling and Removing Temporary Joint	TON	100.000	100.000

CLEARING AND GRUBBING ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
0010	USH 45 NB	919+43	-	921+63	3	3
0010		934+02	-	934+67	1	1
0010		935+19	-	935+51	1	1
0010		935+83	-	936+21	1	1
0010		938+55	-	939+35	1	1
0010		942+32	-	943+60	2	2
0010		944+25	-	945+33	2	2
0010		945+97	-	947+19	2	2
0010		951+43	-	951+64	1	1
0010		952+24	-	952+56	1	1
0010		953+20	-	953+34	1	1
0010	USH 45 SB	921+00	-	923+53	3	3
0010		924+48	-	925+17	1	1
0010		935+20	-	935+93	1	1
0010		943+93	-	945+02	2	2
0010		947+10	-	947+38	1	1
0010		953+39	-	953+57	1	1
0010		965+29	-	965+64	1	1
0010		967+95	-	968+23	1	1
0010		968+50	-	968+66	1	1
0010	RAWSON NW RAMP	248+08	-	248+80	1	1
0010	E FRONTAGE ROAD	350+29	-	350+72	1	1
0010		351+44	-	351+85	1	1
0010		352+75	-	353+67	1	1
0010		354+59	-	354+85	1	1
0010		355+56	-	355+68	1	1
0010		355+97	-	356+16	1	1
0010		357+50	-	357+63	1	1
0010		359+70	-	359+96	1	1
0010		248+08	-	248+80	1	1
				TOTAL 0010	38	38

REMOVAL ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0165 REMOVING GUARDRAIL LF
0010	USH 45 NB	904+00	-	918+50	--	1,109	390	--	--
0010		918+50	-	932+50	6,024	--	--	--	--
0010		932+50	-	947+00	7,873	--	270	203	--
0010		947+00	-	961+50	7,636	--	--	459	--
0010		961+50	-	971+50	3,743	--	701	85	--
0010	USH 45 SB	904+00	-	918+50	--	1,504	--	--	187
0010		918+50	-	932+50	8,082	--	--	--	--
0010		932+50	-	947+00	8,194	--	--	132	--
0010		947+00	-	961+50	9,718	--	--	616	--
0010		961+50	-	971+50	4,385	--	400	347	--
0010	RAWSON NW RAMP	244+72	-	250+00	--	748	--	--	--
0010	PHYLLIS LANE	300+00	-	304+73	--	--	--	--	--
0010	E FRONTAGE ROAD	350+00	-	358+93	--	--	--	--	1,670
0010		358+93	-	360+25	--	--	--	--	--
0010	W FRONTAGE ROAD	325+40	-	330+18	--	--	44	--	--
				TOTAL 0010	55,655	3,361	1,805	1,842	1,857

ABANDONING SEWER

CATEGORY	LOCATION	STATION	TO	STATION	204.0291.S CY
0010	USH 45	BEGIN	-	END	5
				TOTAL 0010	5

GRUBBING

CATEGORY	LOCATION	STATION	TO	STATION	201.0210 SY	REMARKS
0010	USH 45 SB	917+50	-	920+00	2,727	POND AREA
	TOTAL 0010				2,727	

3

REMOVING DRAINAGE ITEMS AND MISCELLANEOUS REMOVALS

CATEGORY	LOCATION	STATION	TO	STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERTS EACH	204.0185 REMOVING MASONRY CY	204.0210 REMOVING MANHOLES EACH	204.0215 REMOVING CATCH BASINS EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER 12-INCH LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 30-INCH LF	204.0245.05 REMOVING STORM SEWER 36-INCH LF	REMARKS
						--	--	--	--	1	24	--	--	--	--	STAGE 1 TEMPORARY DRAINAGE
0010	USH 45		916+57		LT/RT	--	--	--	--	1	144	--	--	--	--	
0010		923+00	-	945+21	RT	--	--	2	--	--	--	--	--	--	2,223	
0010			924+14		LT/RT	--	--	1	2	3	60	42	--	--	--	
0010			928+22		LT/RT	--	--	1	--	3	112	--	--	--	--	
0010			929+60		RT	--	--	1	--	1	32	--	--	--	--	
0010			930+97		LT/RT	--	--	1	--	3	119	--	--	--	--	
0010			933+55		RT	--	--	1	--	--	--	--	--	--	76	
0010			934+41		LT/RT	--	--	1	--	3	117	--	--	--	--	
0010			936+72		LT/RT	--	--	1	--	3	114	--	--	--	--	
0010		937+00	-	938+00	LT	--	2	--	--	--	--	--	--	--	--	
0010			940+97		LT/RT	--	--	1	--	2	--	--	--	--	--	
0010			943+92		LT/RT	--	--	1	--	3	114	--	--	--	--	
0010			945+07		LT/RT	--	--	--	--	3	37	--	--	--	--	
0010		945+21	-	948+46	RT	--	--	--	--	1	335	--	--	--	--	
0010			945+48		LT/RT	--	--	2	1	1	77	32	--	45	--	
0010			946+31		RT	--	--	--	--	1	41	--	--	--	--	
0010			948+47		RT	--	--	1	--	1	16	--	--	--	--	
0010		951+58	-	953+22	LT/RT	--	--	1	--	1	144	29	--	--	--	
0010			953+22		LT/RT	--	--	2	--	1	124	--	--	--	--	
0010		953+23	-	961+50	RT	--	--	--	--	1	24	--	784	--	--	
0010			955+21		LT/RT	--	--	2	--	3	124	--	--	--	--	
0010			959+12		LT/RT	--	--	--	--	3	124	--	--	--	--	
0010			961+08		LT/RT	--	--	2	--	3	80	--	--	56	--	
0010		961+46	-	963+56	RT	--	--	--	--	--	86	--	--	--	126	
0010			962+73		RT	--	--	2	--	--	--	--	--	84	--	
0010			963+57		LT/RT	--	--	1	--	2	118	--	--	--	--	
0010	RAWSON NW RAMP		248+98		LT	--	--	--	--	1	53	--	--	--	--	
0010	CORTEZ ROAD		448+40		RT	1	--	--	--	--	--	--	--	--	--	
0010	CORTEZ ROAD		448+85		LT	1	--	--	--	--	--	--	--	--	--	
0010	PRAIRIE WOOD DRIVE		499+23		LT/RT	--	--	--	--	2	40	--	--	--	--	
0010	WHITNALL EDGE ROAD		601+01		LT/RT	--	--	--	--	2	40	--	--	--	--	
					TOTAL 0010	2	2	24	3	49	2,302	103	784	185	2,425	

Division	From/To Station	Location	Common Excavation (1) (item #205.0100) Cut (2)	Common Excavation (1) (item #205.0100) EBS Excavation (3)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6) Factor 0.80	Expanded EBS Backfill (7) Factor 1.30	Unexpanded Fill	Expanded Fill (8) Factor 1.20	Mass Ordinate +/- (9)	Waste	Comment:
1	906+00 to 909+00	USH 45 (South Crossover)	779	0	0	779	0	0	5	6	773	773	
	967+25 to 971+49	USH 45 (North Crossover)	755	0	0	755	0	0	0	0	755	755	
Division 1 Subtotal			1,534	0	0	1,534	0	0	5	6	1,528	1,528	
2	916+00 to 968+80	USH 45	26,149	0	0	26,149	0	0	1,254	1,505	24,644	24,644	
	-- to --	Detention Pond (North)	5,535	0	0	5,535	0	0	66	79	5,456	5,456	
	-- to --	Detention Pond (South	1	0	0	1	0	0	147	176	-175	-175	
	247+19 to 249+00	Rawson NW Ramp	996	0	0	996	0	0	62	74	922	922	
	325+75 to 330+01	Frontage Road West	948	0	0	948	0	0	57	69	879	879	
	447+99 to 449+14	Cortez Road	505	0	0	505	0	0	0	0	505	505	
	498+80 to 499+21	Prairie Wood Lane	189	0	0	189	0	0	0	0	188	188	
	548+44 to 548+87	Speedway Drive	294	0	0	294	0	0	1	1	293	293	
Division 2 Subtotal			34,618	0	0	34,618	0	0	1,588	1,905	32,713	32,713	
3	916+00 to 968+80	USH 45	25,414	0	0	25,414	0	0	1,427	1,713	23,702	23,702	
	350+20 to 360+00	Frontage Road East	1,243	0	0	1,243	0	0	122	147	1,096	1,096	
	301+00 to 301+35	Phyllis Lane	128	0	0	128	0	0	4	5	124	124	
	401+00 to 401+14	Herda Place	45	0	0	45	0	0	0	0	45	45	
	450+85 to 452+19	Cortez Circle (South)	680	0	0	680	0	0	7	9	671	671	
	500+93 to 501+25	Cortez Circle (North)	169	0	0	169	0	0	6	7	162	162	
	551+00 to 551+71	Speedway Drive	111	0	0	111	0	0	1	1	110	110	
	600+89 to 602+00	Whitnall Edge Road	492	0	0	492	0	0	9	11	481	481	
	650+81 to 651+15	Venture Drive	184	0	0	184	0	0	1	1	183	183	
Division 3 Subtotal			28,467	0	0	28,467	0	0	1,578	1,893	26,573	26,573	
Undistributed			0	2,501	0	0	0	3,251	0	0	0	0	
Grand Total			64,619	2,501	0	64,619	0	3,251	3,170	3,804	60,814	60,814	
		Total Common Exc	67,120										

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Backfill Granular Grade 2 material.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Backfill Granular Grade 2 material. EBS Backfill Factor = 1.3. Item number 209.2500
8) Expanded Fill. Factor = 1.20
Depending on selections:
Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor
9) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

BACKFILL GRANULAR GRADE 2

CATEGORY	LOCATION	STATION	TO	STATION	209.2500 TON	REMARKS
0010	USH 45	BEGIN	-	END	5,530	UNDISTRIBUTED
				TOTAL 0010	5,530	

3

FINISHING ROADWAY 2040-14-70

CATEGORY	LOCATION	STATION	TO	STATION	213.0100.01 EACH
0010	USH 45	BEGIN	-	END	1
				TOTAL 0010	1

TEMPORARY DRAINAGE ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	204.0260 ABANDONING INLETS EACH	204.0280 SEALING PIPES EACH	520.2015 CULVERT PIPE TEMPORARY 15-INCH LF	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	611.0651 INLET COVERS TYPE S EACH	* 611.3225 INLETS 2X2.5-FT EACH	SPV.0060.36 TEMPORARY APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	SPV.0060.37 TEMPORARY APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 15-INCH 6 TO 1 EACH
0010	USH 45	BEGIN PROJECT	-	918+50	--	--	--	24	1	1	1	--
		918+50	-	932+50	1	2	135	--	--	--	--	2
		932+50	-	947+00	1	5	--	--	--	--	--	--
		947+00	-	961+50	--	4	--	--	--	--	--	--
		961+50	-	END PROJECT	--	--	--	--	--	--	--	--
		UNDISTRIBUTED			2	2	--	--	--	--	--	--
				TOTAL 0010	4	13	135	24	1	1	1	2

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

BASE AGGREGATE DENSE 1 1/4-INCH

CATEGORY	LOCATION	STATION	TO	STATION	* 305.0120 TON
0010	USH 45 NB	904+00	-	916+00	1,119
0010		916+00	-	918+50	971
0010		918+50	-	924+00	2,614
0010		924+00	-	929+50	3,031
0010		929+50	-	935+00	3,248
0010		935+00	-	941+00	2,608
0010		941+00	-	946+50	2,533
0010		946+50	-	951+00	1,905
0010		951+00	-	956+00	2,442
0010		956+00	-	961+50	2,111
0010		961+50	-	966+00	2,136
0010		966+00	-	968+80	1,320
0010	USH 45 SB	917+40	-	918+50	403
0010		918+50	-	924+00	2,807
0010		924+00	-	929+50	3,132
0010		929+50	-	935+00	2,152
0010		935+00	-	941+00	2,633
0010		941+00	-	946+50	2,472
0010		946+50	-	951+00	1,941
0010		951+00	-	956+00	3,000
0010		956+00	-	961+50	2,220
0010		961+50	-	966+00	2,104
0010		966+00	-	968+80	1,202
0010	RAWSON NW RAMP	247+75	-	248+40	217
0010	CORTEZ CIRCLE (SOUTH)	451+25	-	452+00	321
0010	CORTEZ ROAD	447+99	-	448+50	129
0010	WHITNALL EDGE ROAD	601+25	-	602+00	249
				TOTAL 0010	51,019

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

COLORED CONCRETE ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	405.0100 COLORING CONCRETE WISDOT RED CY	405.1000 STAMPING COLORED CONCRETE CY
0030	USH 45 NB	916+00	-	918+50	--	--
0030		918+50	-	924+00	--	--
0030		924+00	-	929+50	--	36
0030		929+50	-	935+00	--	36
0030		935+00	-	941+00	--	42
0030		941+00	-	946+50	--	62
0030		946+50	-	951+00	--	89
0030		951+00	-	956+00	10	59
0030		956+00	-	961+50	--	84
0030		961+50	-	966+00	--	66
0030		966+00	-	968+80	--	68
0030	USH 45 SB	917+40	-	918+50	--	--
0030		918+50	-	924+00	--	--
0030		924+00	-	929+50	--	65
0030		929+50	-	935+00	--	36
0030		935+00	-	941+00	--	42
0030		941+00	-	946+50	--	39
0030		946+50	-	951+00	--	59
0030		951+00	-	956+00	21	55
0030		956+00	-	961+50	--	59
0030		961+50	-	966+00	--	23
0030		966+00	-	968+80	--	--
0030	CORTEZ CIRCLE (SOUTH)	451+25	-	452+00	--	--
0030	WHITNALL EDGE ROAD	601+25	-	602+00	--	--
				TOTAL 0030	32	920

BREAKER RUN

CATEGORY	LOCATION	STATION	TO	STATION	311.0110 TON
0010	USH 45 NB	916+00	-	918+50	1,165
0010		918+50	-	924+00	3,068
0010		924+00	-	929+50	2,527
0010		929+50	-	935+00	3,050
0010		935+00	-	941+00	3,130
0010		941+00	-	946+50	3,039
0010		946+50	-	951+00	2,285
0010		951+00	-	956+00	2,901
0010		956+00	-	961+50	2,584
0010		961+50	-	966+00	2,545
0010		966+00	-	968+80	1,584
0010	USH 45 SB	917+40	-	918+50	483
0010		918+50	-	924+00	3,193
0010		924+00	-	929+50	2,586
0010		929+50	-	935+00	2,583
0010		935+00	-	941+00	3,159
0010		941+00	-	946+50	2,966
0010		946+50	-	951+00	2,330
0010		951+00	-	956+00	3,599
0010		956+00	-	961+50	2,658
0010		961+50	-	966+00	2,517
0010		966+00	-	968+80	1,442
0010	RAWSON NW RAMP	247+75	-	248+40	261
0010	CORTEZ CIRCLE (SOUTH)	451+25	-	452+00	385
0010	CORTEZ ROAD	447+99	-	448+50	154
0010	WHITNALL EDGE ROAD	601+25	-	602+00	299
				TOTAL 0010	56,493

QMP BASE AGGREGATE DENSE 1 1/4-INCH COMPACTION

CATEGORY	LOCATION	STATION	TO	STATION	371.2000.S EACH
0010	USH 45	BEGIN	-	END	48
				TOTAL 0010	48

3

HMA PAVEMENT ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON
0010	USH 45 NB	BEGIN PROJECT	-	916+00	111	--	123	--
0010		916+00	-	918+50	186	331	116	48
0010		918+50	-	924+00	513	954	334	82
0010		924+00	-	929+50	543	1,081	378	--
0010		929+50	-	935+00	601	1,197	419	--
0010		935+00	-	941+00	468	932	326	--
0010		941+00	-	946+50	451	898	315	--
0010		946+50	-	951+00	332	661	231	--
0010		951+00	-	956+00	411	819	287	--
0010		956+00	-	961+50	368	733	257	--
0010		961+50	-	966+00	364	725	254	--
0010		966+00	-	968+80	227	452	158	--
0010	USH 45 SB	BEGIN PROJECT	-	917+40	151	--	167	--
0010		917+40	-	918+50	67	134	47	--
0010		918+50	-	924+00	475	946	331	--
0010		924+00	-	929+50	531	1,058	370	--
0010		929+50	-	935+00	377	751	263	--
0010		935+00	-	941+00	470	934	327	--
0010		941+00	-	946+50	436	869	304	--
0010		946+50	-	951+00	316	629	220	--
0010		951+00	-	956+00	537	1,068	374	--
0010		956+00	-	961+50	384	765	268	--
0010		961+50	-	966+00	373	742	260	--
0010		966+00	-	968+80	222	442	155	--
0010	RAWSON NW RAMP	247+75	-	248+40	66	131	46	--
0010	CORTEZ CIRCLE (SOUTH)	451+25	-	452+00	47	94	33	--
0010	CORTEZ ROAD	447+99	-	448+50	22	44	15	--
0010	WHITNALL EDGE ROAD	601+25	-	602+00	42	84	29	--
				TOTAL 0010	9,097	17,474	6,407	130

DRIVEWAY ITEMS

CATEGORY	LOCATION	STATION	OFFSET	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	416.0160 CONCRETE DRIVEWAY 6-INCH SY	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	* 690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF
0010	USH 45	930+93.83	LT	31	49	--	7	39	--
0010		932+39.53	LT	8	19	--	1	12	--
0010		933+98.57	LT	17	42	--	2	27	--
0010		935+98.04	LT	14	19	--	4	9	--
0010		936+66.45	LT	9	19	--	1	12	--
0010		937+70.59	LT	9	20	--	1	13	--
0010		961+04.52	LT	24	41	--	5	30	--
0010		966+97.23	LT	35	47	--	10	51	--
0010		968+36.53	LT	30	35	--	9	28	--
0010	W FRONTAGE ROAD	326+07.43	LT	9	26	--	--	--	--
0010		328+70.54	LT	34	32	--	12	27	--
0010		330+01.07	LT	25	38	--	7	23	--
0010	PHYLLIS LANE	301+05.32	RT	38	--	--	19	15	--
0010	E FRONTAGE ROAD	351+35.61	RT	9	27	--	--	--	14
0010		352+08.38	RT	16	18	--	5	15	--
0010		353+85.25	RT	12	22	--	3	19	--
0010		354+92.11	RT	17	49	--	--	--	16
0010		355+38.87	RT	21	23	--	7	20	--
0010		357+23.36	RT	11	19	--	2	16	--
0010		357+71.30	RT	9	19	--	2	15	--
0010		358+62.05	RT	15	14	--	5	15	--
0010	CORTEZ ROAD	448+36.89	RT	4	12	--	--	--	20
0010		448+74.16	LT	9	--	--	4	11	--
0010	S CORTEZ CIRCLE	451+66.28	LT	18	53	--	--	--	23
0010	W SPEEDWAY DRIVE	548+31	RT	--	--	4	--	--	--
			TOTAL 0010	423	642	4	106	397	73

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ASPHALTIC SURFACE TEMPORARY

CATEGORY	LOCATION	STATION	TO	STATION	465.0125 TON
0010	STAGE 1	BEGIN PROJECT	-	905+00	--
0010		905+00	-	918+50	470
0010		918+50	-	932+50	80
0010		932+50	-	947+00	--
0010		947+00	-	961+50	221
0010		961+50	-	END PROJECT	250
0010	STAGE 2A	BEGIN PROJECT	-	905+00	--
0010		905+00	-	918+50	--
0010		918+50	-	932+50	84
0010		932+50	-	947+00	--
0010		947+00	-	961+50	100
0010		961+50	-	END PROJECT	--
0010	STAGE 2B	947+00	-	961+50	11
				TOTAL 0010	1,216

ASPHALTIC CURB

CATEGORY	LOCATION	STATION	TO	STATION	465.0310 LF	REMARKS
0010	USH 45	946+73	-	951+53	480	STAGE 2
				TOTAL 0010	480	

APRON AND CULVERT ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH
0010	USH 45 SB	916+00	-	918+50	--	1	2
	USH 45	920+00	-	921+50	--	--	--
0010	RAWSON NW RAMP	244+71	-	250+00	--	--	1
		UNDISTRIBUTED			5	--	1
				TOTAL 0010	5	1	4

ASPHALTIC FLUME ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	OFFSET	465.0315 ASPHALTIC FLUMES SY	* 606.0200 RIPRAP MEDIUM CY
0010	RAWSON NW RAMP	247+75			LT/RT	28	--
		247+75			RT	--	3
					TOTAL 0010	28	3

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CURB RAMP ITEMS

CATEGORY	STATION	OFFSET	R/L	ALIGNMENT	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH
0010	249+18	26	R	RAWSON NW RAMP	59	--	12	1
0010	249+18	4	L	RAWSON NW RAMP	--	10	--	1
0010	249+13	29	L	RAWSON NW RAMP	--	--	10	1
0010	248+92	54	L	RAWSON NW RAMP	--	--	10	1
0010	300+95	20	R	PHYLLIS LN	--	10	--	1
0010	300+90	16	L	PHYLLIS LN	20	10	--	1
0010	922+95	60	R	USH 45	28	20	--	1
0010	922+96	2	L	USH 45	--	--	21	1
0010	922+96	10	L	USH 45	--	--	21	1
0010	922+98	58	L	USH 45	--	10	--	1
0010	400+90	19	R	HERDA PL	--	10	--	1
0010	400+90	14	L	HERDA PL	--	10	--	1
0010	934+28	59	R	USH 45	--	10	--	1
0010	934+28	10	R	USH 45	--	--	10	1
0010	934+28	2	R	USH 45	--	--	10	1
0010	934+28	58	L	USH 45	21	10	--	1
0010	450+75	23	R	CORTEZ CIR S	--	10	--	1
0010	450+74	23	L	CORTEZ CIR S	--	10	--	1
0010	449+33	29	R	CORTEZ RD	--	10	--	1
0010	449+34	28	L	CORTEZ RD	--	10	--	1
0010	939+86	60	R	USH 45	31	10	--	1
0010	939+86	61	L	USH 45	--	10	--	1
0010	940+57	65	R	USH 45	32	10	--	1
0010	940+56	61	L	USH 45	--	10	--	1
0010	500+74	30	R	CORTEZ CIR N	--	10	--	1
0010	500+63	26	L	CORTEZ CIR N	--	10	--	1
0010	945+48	63	R	USH 45	--	10	--	1
0010	945+56	61	L	USH 45	--	10	--	1

CONTINUED ON THE RIGHT

CURB RAMP ITEMS ('CONTINUED)

CATEGORY	STATION	OFFSET	R/L	ALIGNMENT	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH
0010	499+33	33	R	PRAIRIE WOOD LN	--	10	--	1
0010	499+34	22	L	PRAIRIE WOOD LN	16	10	--	1
0010	550+71	65	R	SPEEDWAY DR	--	10	--	1
0010	550+66	26	L	SPEEDWAY DR	--	10	--	1
0010	549+23	40	R	SPEEDWAY DR	--	10	--	1
0010	549+35	30	L	SPEEDWAY DR	--	10	--	1
0010	549+31	40	L	SPEEDWAY DR	--	10	--	1
0010	549+07	58	L	SPEEDWAY DR	12	10	--	1
0010	951+36	65	R	USH 45	--	10	--	1
0010	952+42	59	R	USH 45	--	10	--	1
0010	952+43	57	L	USH 45	--	10	--	1
0010	951+43	63	L	USH 45	--	10	--	1
0010	600+74	31	R	WHITNALL EDGE RD	--	10	--	1
0010	600+63	26	L	WHITNALL EDGE RD	--	10	--	1
0010	962+40	61	R	USH 45	--	10	--	1
0010	962+59	59	L	USH 45	--	10	--	1
0010	962+76	66	L	USH 45	--	10	--	1
0010	963+33	66	L	USH 45	--	10	--	1
0010	963+39	61	L	USH 45	--	10	--	1
0010	963+16	61	R	USH 45	--	10	--	1
0010	650+66	23	R	VENTURE DR	--	10	--	1
0010	650+68	38	L	VENTURE DR	--	10	--	1
0010	966+66	61	R	USH 45	--	10	--	1
0010	966+65	12	R	USH 45	--	10	--	1
0010	966+65	2	L	USH 45	--	10	--	1
0010	966+65	58	L	USH 45	--	10	--	1
				TOTAL 0010	218	480	94	54

3

3

CURB AND GUTTER ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0582 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T LF
0010	USH 45 NB	916+00	-	918+50	--	--	492	--
0010		918+50	-	924+00	--	57	853	--
0010		924+00	-	929+50	--	549	--	--
0010		929+50	-	935+00	--	565	--	--
0010		935+00	-	941+00	--	1,033	--	--
0010		941+00	-	946+50	186	906	--	--
0010		946+50	-	951+00	200	860	--	--
0010		951+00	-	956+00	80	1,149	--	--
0010		956+00	-	961+50	85	1,049	--	--
0010		961+50	-	966+00	118	930	--	--
0010		966+00	-	971+50	96	1,456	--	--
0010	USH 45 SB	917+40	-	918+50	--	--	225	113
0010		918+50	-	924+00	--	191	556	127
0010		924+00	-	929+50	--	1,048	--	--
0010		929+50	-	935+00	--	1,039	--	--
0010		935+00	-	941+00	--	1,040	--	--
0010		941+00	-	946+50	--	1,077	--	--
0010		946+50	-	951+00	--	1,128	--	--
0010		951+00	-	956+00	379	787	--	--
0010		956+00	-	961+50	24	1,173	--	--
0010		961+50	-	966+00	185	893	--	--
0010		966+00	-	971+50	--	2,313	--	--
0010	RAWSON NW RAMP	244+72	-	250+00	--	268	465	--
0010	PHYLLIS LANE	300+00	-	305+00	--	95	--	--
0010	FRONTAGE ROAD (WEST)	325+40	-	330+18	--	970	--	--
0010	FRONTAGE ROAD (EAST)	350+00	-	360+25	--	978	--	--
0010	HERDA PLACE	400+00	-	405+00	--	103	--	--
0010	CORTEZ ROAD	445+00	-	450+00	--	210	--	--
0010	CORTEZ CIRCLE (SOUTH)	450+00	-	454+00	--	319	--	--
0010	CORTEZ CIRCLE (NORTH)	500+00	-	504+00	--	167	--	--
0010	PRAIRIE WOOD LANE	497+00	-	500+00	--	164	--	--
0010	SPEEDWAY DRIVE	542+00	-	552+29	125	--	--	--
0010	WHITNALL EDGE ROAD	600+00	-	605+00	--	321	--	--
0010	VENTURE DRIVE	650+00	-	655+00	--	155	--	--
				TOTAL 0010	1,478	22,993	2,591	240

CONCRETE SIDEWALK ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	602.0410 CONCRETE SIDEWALK 5-INCH SF
0010	USH 45 NB	916+00	-	918+50	72	--
0010		918+50	-	924+00	175	736
0010		924+00	-	929+50	82	2,290
0010		929+50	-	935+00	91	2,565
0010		935+00	-	941+00	118	3,313
0010		941+00	-	946+50	127	3,555
0010		946+50	-	951+00	109	3,053
0010		951+00	-	956+00	148	4,163
0010		956+00	-	961+50	108	3,025
0010		961+50	-	966+00	98	2,760
0010		966+00	-	968+80	34	951
0010	USH 45 SB	917+40	-	918+50	20	558
0010		918+50	-	924+00	112	3,146
0010		924+00	-	929+50	148	4,163
0010		929+50	-	935+00	85	2,396
0010		935+00	-	941+00	94	2,638
0010		941+00	-	946+50	120	3,359
0010		946+50	-	951+00	111	3,130
0010		951+00	-	956+00	153	4,306
0010		956+00	-	961+50	110	3,105
0010		961+50	-	966+00	146	4,108
0010		966+00	-	968+80	41	1,145
0010	CORTEZ CIRCLE (SOUTH)	451+25	-	452+00	12	348
0010	WHITNALL EDGE ROAD	601+25	-	602+00	18	516
				TOTAL 0010	2,331	59,328

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BARRIER ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	603.1232 CONCRETE BARRIER TYPE S32A LF	614.0800 CRASH CUSHIONS PERMANENT EACH	BACK WIDTH FT	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION	CRASH CUSHION SHIELDS	633.1000 DELINEATORS BARRIER WALL EACH
0010	E FRONTAGE ROAD	350+00	-	360+25	893	2	4	OM-3C	TL-3	UNIDIRECTIONAL	L AND R	PERMANENT BARRIER	10
				TOTAL 0010	893	2							10

3

STORM SEWER ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	390.0403 * BASE PATCHING CONCRETE SHES SY	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0312 * STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0610 INLET COVERS TYPE BW EACH	611.0612 INLET COVERS TYPE C EACH
0010	USH 45 NB	916+00	-	918+50	3	--	187	--	--	--	--	--	--	--	--	--	--
0010		918+50	-	924+00	--	--	97	22	--	67	--	--	--	--	--	--	--
0010		924+00	-	929+50	--	--	150	80	--	--	--	--	--	--	--	6	--
0010		929+50	-	935+00	--	--	211	57	12	--	--	--	--	--	--	3	--
0010		935+00	-	941+00	--	--	96	19	--	--	--	--	--	--	--	--	--
0010		941+00	-	946+50	3	--	177	29	5	--	--	--	--	--	--	--	--
0010		946+50	-	951+00	3	--	46	--	--	--	--	--	--	--	--	--	--
0010		951+00	-	956+00	--	--	48	127	18	--	--	--	--	--	--	--	--
0010		956+00	-	961+50	6	--	0	13	--	--	--	--	--	--	--	--	--
0010		961+50	-	966+00	3	--	46	--	120	58	--	--	--	--	--	--	--
0010		966+00	-	968+80	--	--	62	--	--	--	--	--	--	--	1	--	--
0010	USH 45 SB	916+00	-	918+50	3	104	3	209	--	--	--	--	--	--	--	--	--
0010		918+50	-	924+00	9	--	50	--	4	--	--	644	--	3	--	--	1
0010		924+00	-	929+50	--	--	205	6	--	--	--	415	--	3	--	--	--
0010		929+50	-	935+00	3	--	54	47	3	--	--	593	--	3	--	--	--
0010		935+00	-	941+00	--	--	161	9	--	--	--	524	--	2	--	--	--
0010		941+00	-	946+50	6	--	139	7	12	141	606	--	--	1	--	--	2
0010		946+50	-	951+00	3	--	70	--	12	265	--	--	--	1	--	--	--
0010		951+00	-	956+00	3	--	95	7	--	276	196	--	--	--	--	--	1
0010		956+00	-	961+50	3	--	79	3	2	--	141	199	--	3	--	--	--
0010		961+50	-	966+00	--	--	148	--	3	--	--	--	115	2	--	--	1
0010		966+00	-	968+80	--	--	41	--	--	--	--	--	--	--	--	--	--
				TOTAL 0010	48	104	2,165	635	191	807	943	2,375	115	18	1	9	5

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STORM SEWER ITEMS ('CONTINUED)

CATEGORY	LOCATION	STATION	TO	STATION	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0666 INLET COVERS TYPE Z EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	* 611.3225 INLETS 2X2.5-FT EACH	611.3230 INLETS 2X3-FT EACH
0010	USH 45 NB	916+00	-	918+50	--	2	--	--	--	--	--	1	--	1
0010		918+50	-	924+00	3	3	--	--	--	--	1	3	2	3
0010		924+00	-	929+50	2	1	3	--	--	--	2	--	4	2
0010		929+50	-	935+00	6	--	2	--	--	--	2	1	3	5
0010		935+00	-	941+00	3	--	--	--	--	--	--	--	--	3
0010		941+00	-	946+50	11	--	--	--	--	--	--	--	--	11
0010		946+50	-	951+00	3	--	--	--	--	--	--	--	--	3
0010		951+00	-	956+00	7	--	--	--	--	--	--	--	--	7
0010		956+00	-	961+50	3	--	--	--	--	--	--	--	--	2
0010		961+50	-	966+00	6	--	--	--	1	--	--	--	--	8
0010		966+00	-	968+80	1	--	--	--	--	1	--	--	--	1
0010	USH 45 SB	916+00	-	918+50	--	2	--	--	--	--	--	1	--	1
0010		918+50	-	924+00	4	--	--	--	4	--	--	--	--	4
0010		924+00	-	929+50	6	--	--	--	3	--	--	--	--	6
0010		929+50	-	935+00	4	--	--	--	3	--	--	--	--	4
0010		935+00	-	941+00	7	--	--	--	2	--	--	1	--	6
0010		941+00	-	946+50	10	--	--	1	2	--	--	--	--	10
0010		946+50	-	951+00	4	--	--	1	--	--	--	1	--	3
0010		951+00	-	956+00	6	--	--	1	--	--	--	1	--	4
0010		956+00	-	961+50	9	--	--	1	2	--	--	1	--	9
0010		961+50	-	966+00	5	--	--	--	1	1	--	--	--	6
0010		966+00	-	968+80	2	--	--	--	--	--	--	--	--	--
				TOTAL 0010	102	8	5	4	18	2	5	10	9	99

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

UNDERDRAIN ITEMS

CAT.	LOCATION	STATION	TO	STATION	310.0110 BASE AGGREGATE OPEN-GRADED TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY
0010	USH 45 NB	916+00	-	918+50	20	351	156
0010		918+50	-	924+00	11	192	85
0010		924+00	-	929+50	17	308	137
0010		929+50	-	935+00	11	200	89
0010		935+00	-	941+00	11	200	89
0010		941+00	-	946+50	15	269	120
0010		946+50	-	951+00	27	473	210
0010		951+00	-	956+00	20	350	156
0010		956+00	-	961+50	20	350	156
0010		961+50	-	966+00	20	350	156
0010		966+00	-	968+80	--	--	--
0010	USH 45 SB	916+00	-	918+50	14	239	106
0010		918+50	-	924+00	24	424	188
0010		924+00	-	929+50	17	300	133
0010		929+50	-	935+00	15	267	119
0010		935+00	-	941+00	11	200	89
0010		941+00	-	946+50	11	200	89
0010		946+50	-	951+00	26	466	207
0010		951+00	-	956+00	12	211	94
0010		956+00	-	961+50	21	370	164
0010		961+50	-	966+00	17	300	133
0010		966+00	-	968+80	6	100	44
				TOTAL 0010	346	6,120	2,720

3

GUARDRAIL ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	614.0397 GUARDRAIL MOW STRIP EMULSIFIED ASPHALT SY	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
0010	USH 45 SB	916+42	-	918+24	--	88	40	1
		916+08	-	918+27	209	--	--	--
				TOTAL 0010	209	88	40	1

WATER

CATEGORY	LOCATION	STATION	TO	STATION	624.0100 MGAL
0010	USH 45	UNDISTRIBUTED			500
				TOTAL 0010	500

3

MAINTENANCE AND REPAIR OF HAUL ROADS 2040-14-70

CATEGORY	LOCATION	STATION	TO	STATION	618.0100.01 EACH
0010	USH 45	BEGIN	-	END	1
				TOTAL 0010	1

MOBILIZATION

CATEGORY	LOCATION	STATION	TO	STATION	619.1000 MOBILIZATION EACH
0010	USH 45	BEGIN	-	END	1
				TOTAL 0010	1

CONCRETE MEDIAN SLOPED NOSE

CATEGORY	LOCATION	STATION	TO	STATION	620.0300 SF
0010	USH 45 NB	916+00	-	918+50	--
0010		918+50	-	924+00	59
0010		924+00	-	929+50	--
0010		929+50	-	935+00	59
0010		935+00	-	941+00	59
0010		941+00	-	946+50	149
0010		946+50	-	951+00	45
0010		951+00	-	956+00	156
0010		956+00	-	961+50	45
0010		961+50	-	966+00	96
0010		966+00	-	968+80	171
0010	USH 45 SB	917+40	-	918+50	--
0010		918+50	-	924+00	241
0010		924+00	-	929+50	59
0010		929+50	-	935+00	59
0010		935+00	-	941+00	59
0010		941+00	-	946+50	59
0010		946+50	-	951+00	--
0010		951+00	-	956+00	170
0010		956+00	-	961+50	45
0010		961+50	-	966+00	145
0010		966+00	-	968+80	--
				TOTAL 0010	1,677

EROSION CONTROL ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	* 606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	REMARKS
	STAGE 1														
0010	USH 45 NB	904+00	-	923+43	--	--	495	--	--	--	--	1	1	495	4 WEEKS SEED WATERING
0010		923+43	-	940+20	--	--	--	--	--	--	--	--	--	--	
0010		940+20	-	952+10	--	--	--	--	--	--	--	--	--	--	
0010		952+10	-	968+80	--	--	--	--	--	--	--	--	--	--	
	STAGE 2														
0010	USH 45 NB	904+00	-	923+43	--	--	--	--	--	--	--	1	1	--	
0010		923+43	-	940+20	--	--	--	--	--	--	--	--	--	--	
0010		940+20	-	952+10	--	--	--	--	--	--	--	--	--	--	
0010		952+10	-	968+80	--	--	--	--	--	--	--	--	--	--	
0010	FRONTAGE ROAD EAST	350+00	-	360+25	--	--	--	--	--	--	--	--	--	--	
0010	USH 45 SB	904+00	-	923+43	4	56	2,045	8,110	8,710	1,415	145	--	--	1,805	4 WEEKS SEED WATERING
0010		923+43	-	940+20	--	--	1,640	--	675	740	75	--	--	965	4 WEEKS SEED WATERING
0010		940+20	-	952+10	--	--	1,495	--	725	300	30	--	--	770	4 WEEKS SEED WATERING
0010		952+10	-	968+80	--	--	1,670	--	620	--	--	--	--	1,050	4 WEEKS SEED WATERING
	STAGE 3														
0010	USH 45 NB	904+00	-	923+43	--	--	1,450	--	1,135	470	50	1	1	315	4 WEEKS SEED WATERING
0010		923+43	-	940+20	--	--	2,210	--	1,350	--	--	--	--	860	4 WEEKS SEED WATERING
0010		940+20	-	952+10	--	--	1,905	--	1,020	370	40	--	--	885	4 WEEKS SEED WATERING
0010		952+10	-	968+80	--	--	1,850	--	1,145	460	50	--	--	705	4 WEEKS SEED WATERING
0010	USH 45 SB	904+00	-	923+43	--	--	--	--	--	--	--	--	--	--	
0010		923+43	-	940+20	--	--	--	--	--	--	--	--	--	--	
0010		940+20	-	952+10	--	--	--	--	--	--	--	--	--	--	
0010		952+10	-	968+80	--	--	--	--	--	--	--	--	--	--	
0010	FRONTAGE ROAD WEST	325+40	-	330+18	--	--	--	--	--	--	--	--	--	--	
	STAGE 4														
0010	USH 45 NB	904+00	-	923+43	--	--	2,925	--	--	--	--	1	1	2,925	4 WEEKS SEED WATERING
0010		923+43	-	940+20	--	--	2,390	--	--	--	--	--	--	2,390	4 WEEKS SEED WATERING
0010		940+20	-	952+10	--	--	480	--	--	--	--	--	--	480	4 WEEKS SEED WATERING
0010		952+10	-	968+80	--	--	1,000	--	--	--	--	--	--	1,000	4 WEEKS SEED WATERING
0010	FRONTAGE ROAD EAST	350+00	-	360+25	--	--	--	--	--	--	--	--	--	--	
				TOTAL 0010	4	56	21,555	8,110	15,380	3,755	390	4	4	14,645	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

EROSION CONTROL ITEMS ('CONTINUED)

CATEGORY	LOCATION	STATION	TO	STATION	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7560 TRACKING PADS EACH	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0170 SEEDING MIXTURE NO. 70 LB	630.0500 SEED WATER MGAL	645.0120 GEOTEXTILE TYPE HR SY	REMARKS
	STAGE 1												
0010	USH 45 NB	904+00	-	923+43	3	8	1	0.3	22	--	28	--	4 WEEKS SEED WATERING
0010		923+43	-	940+20	--	8	--	--	--	--	--	--	
0010		940+20	-	952+10	--	5	--	--	--	--	--	--	
0010		952+10	-	968+80	--	13	1	--	--	--	--	--	
	STAGE 2												
0010	USH 45 NB	904+00	-	923+43	--	--	1	--	--	--	--	94	
0010		923+43	-	940+20	--	5	--	--	--	--	--	--	
0010		940+20	-	952+10	--	7	--	--	--	--	--	--	
0010		952+10	-	968+80	--	4	1	--	--	--	--	--	
0010	FRONTAGE ROAD EAST	350+00	-	360+25	--	2	--	--	--	--	--	--	
0010	USH 45 SB	904+00	-	923+43	--	--	--	1.3	92	30	153	--	4 WEEKS SEED WATERING
0010		923+43	-	940+20	--	--	--	1.0	74	--	92	--	4 WEEKS SEED WATERING
0010		940+20	-	952+10	--	--	--	0.9	67	--	84	--	4 WEEKS SEED WATERING
0010		952+10	-	968+80	--	--	--	1.1	75	--	94	--	4 WEEKS SEED WATERING
	STAGE 3												
0010	USH 45 NB	904+00	-	923+43	--	1	1	0.9	65	--	82	--	4 WEEKS SEED WATERING
0010		923+43	-	940+20	--	5	--	1.4	99	--	124	--	4 WEEKS SEED WATERING
0010		940+20	-	952+10	--	4	--	1.2	86	--	107	--	4 WEEKS SEED WATERING
0010		952+10	-	968+80	--	6	1	1.2	83	--	104	--	4 WEEKS SEED WATERING
0010	USH 45 SB	904+00	-	923+43	--	2	--	--	--	--	--	--	
0010		923+43	-	940+20	--	15	--	--	--	--	--	--	
0010		940+20	-	952+10	--	14	--	--	--	--	--	--	
0010		952+10	-	968+80	--	20	--	--	--	--	--	--	
0010	FRONTAGE ROAD WEST	325+40	-	330+18	--	4	--	--	--	--	--	--	
	STAGE 4												
0010	USH 45 NB	904+00	-	923+43	--	5	1	1.8	132	--	165	--	4 WEEKS SEED WATERING
0010		923+43	-	940+20	4	11	--	1.5	108	--	134	--	4 WEEKS SEED WATERING
0010		940+20	-	952+10	--	11	--	0.3	22	--	27	--	4 WEEKS SEED WATERING
0010		952+10	-	968+80	--	12	1	0.6	45	--	56	--	4 WEEKS SEED WATERING
0010	FRONTAGE ROAD EAST	350+00	-	360+25	4	3	--	--	--	--	--	--	
				TOTAL 0010	11	165	8	14.6	970	30	1,251	94	

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	* 638.2102 MOVING SIGNS TYPE II ONSITE LOCATION EACH	638.2102 MOVING SIGNS TYPE II OFFSITE LOCATION EACH	638.4000 MOVING SMALL SIGN SUPPORTS ONSITE LOCATION EACH	638.4000 MOVING SMALL SIGN SUPPORTS OFFSITE LOCATION EACH	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.5000 TRAFFIC CONTROL EACH
0010	STAGE 1	890+00	-	905+00	--	1	--	1	240	--	--	--	--	--	120	--	--
0010		905+00	-	918+50	--	3	--	3	1,100	60	--	--	80	--	40	--	--
0010		918+50	-	932+50	--	3	--	3	1,420	40	--	--	80	--	80	--	--
0010		932+50	-	947+00	--	8	--	8	2,180	120	--	--	240	--	20	--	--
0010		947+00	-	961+50	--	5	--	5	1,600	80	--	--	80	--	20	--	--
0010		961+50	-	975+50	--	1	--	1	1,560	100	--	--	100	--	60	--	--
0010		975+50	-	983+50	--	--	--	--	500	20	--	--	20	20	160	20	--
0010	STAGE 2A	890+00	-	905+00	--	--	--	--	320	--	3	3	--	80	480	--	--
0010		905+00	-	918+50	--	1	--	1	2,400	160	26	26	320	--	160	--	--
0010		918+50	-	932+50	20	14	11	14	4,640	240	26	26	960	--	320	--	--
0010		932+50	-	947+00	4	2	4	2	2,080	--	22	22	--	--	80	--	--
0010		947+00	-	961+50	5	8	5	7	2,240	--	25	25	--	--	80	--	--
0010		961+50	-	975+50	2	3	2	3	2,000	160	20	20	320	--	240	--	--
0010		975+50	-	983+50	--	--	--	--	2,000	80	--	--	160	80	640	80	--
0010	STAGE 2B	BEGIN	-	END	--	--	--	--	2,720	--	--	--	400	--	--	80	--
0010	STAGE 3A	890+00	-	905+00	--	--	--	--	240	--	1	1	--	80	480	80	--
0010		905+00	-	918+50	--	--	--	--	2,400	160	27	27	160	--	160	--	--
0010		918+50	-	932+50	21	--	12	--	2,240	--	23	23	--	--	80	--	--
0010		932+50	-	947+00	4	--	4	--	2,320	--	23	23	--	--	80	--	--
0010		947+00	-	961+50	6	--	6	--	3,040	--	17	17	--	--	80	--	--
0010		961+50	-	975+50	2	--	2	--	3,520	160	18	18	320	--	320	--	--
0010		975+50	-	983+50	--	--	--	--	2,160	80	--	--	80	80	640	80	--
0010	STAGE 3B	945+00	-	960+20	--	--	--	--	2,000	--	--	--	400	--	560	80	--
0010	STAGE 4	890+00	-	905+00	--	--	--	--	--	--	--	--	--	--	324	--	--
0010		905+00	-	918+50	--	--	--	--	--	--	--	--	--	--	--	--	--
0010		918+50	-	932+50	--	--	--	--	--	--	--	--	--	--	54	--	--
0010		932+50	-	947+00	--	--	--	--	--	--	--	--	--	--	54	--	--
0010		947+00	-	961+50	--	--	--	--	2,268	--	--	--	--	--	54	--	--
0010		961+50	-	975+50	--	--	--	--	2,268	--	--	--	--	--	108	--	--
0010		975+50	-	983+50	--	--	--	--	1,458	--	--	--	--	54	270	60	--
		UNDISTRIBUTED															1
				TOTAL 0010	113		94		50,914	1,460	231	231	3,720	394	5,764	480	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC CONTROL COVERING SIGNS TYPE II

CATEGORY	LOCATION	STATION	TO	STATION	643.0920 EACH	REMARKS
0010	USH 45	BEGIN	-	END	2	DETOUR
					20	UNDISTRIBUTED
				TOTAL 0010	22	

TEMPORARY PEDESTRIAN ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF
0010	STAGE 1	950+00	-	955+00	45	--	--	--	240
0010	STAGE 2A	950+00	-	955+00	232	60	90	42	427
0010	STAGE 2B	950+00	-	955+00	732	60	64	21	480
0010	STAGE 3A	950+00	-	955+00	376	--	--	120	313
0010	STAGE 3B	950+00	-	955+00	405	60	55	40	278
0010	STAGE 4	950+00	-	955+00	160	60	66	22	312
				TOTAL 0010	1,905	240	275	245	1,810

PAVEMENT MARKING ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH DOUBLE YELLOW LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH WHITE 12.5 FT LINE 37.5 FT SKIP LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH WHITE 3 FT LINE 9 FT SKIP LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH WHITE LF	646.5020 MARKING ARROW EPOXY TYPE 1 WHITE EACH	646.5020 MARKING ARROW EPOXY TYPE 2 WHITE EACH	646.5020 MARKING ARROW EPOXY TYPE 3 WHITE EACH	646.5120 MARKING WORD EPOXY WHITE EACH	646.5220 MARKING SYMBOL EPOXY WHITE EACH
0010	USH 45 NB	898+07	-	923+43	3,345	3,665	-	615	40	710	-	4	-	1	-
0010		923+43	-	940+20	1,510	1,405	-	840	-	360	3	4	-	7	-
0010		940+20	-	952+10	1,090	915	285	570	-	1,130	4	6	2	5	-
0010		952+10	-	978+99	2,325	2,275	-	1,260	-	975	5	4	-	12	-
0010	USH 45 SB	904+00	-	920+22	2,015	2,160	-	545	-	245		4	-	1	-
0010		920+22	-	940+20	2,740	1,880	285	825	185	295	12	7	-	10	8
0010		940+20	-	952+10	970	910	-	555	-	250	2	4	-	4	-
0010		952+10	-	978+99	2,850	2,280	80	1,270	65	1,835	4	10	-	10	2
				TOTAL 0010	32,335		650	6,770		5,800		75		50	10

PAVEMENT MARKING ITEMS ('CONTINUED)

CATEGORY	LOCATION	STATION	TO	STATION	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH WHITE LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH YELLOW LF	646.6468 COLD WEATHER MARKING EPOXY 8-INCH WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH WHITE LF	646.8120 MARKING CURB EPOXY YELLOW LF	646.8220 MARKING ISLAND NOSE EPOXY YELLOW EACH	REMARKS
0010	USH 45 NB	898+07	-	923+43	35	4,000	3,665	710	530	-	-	-	-	INCLUDES RAWSON SE RAMP
0010		923+43	-	940+20	40	2,350	1,405	360	-	-	-	100	2	INCLUDES PHYLLIS LN, FRONTAGE RD EAST, HERDA PL
0010		940+20	-	952+10	100	1,660	1,200	1,130	-	-	90	175	4	INCLUDES CORTEZ CR (SOUTH), CORTEZ CR (NORTH)
0010		952+10	-	978+99	110	3,585	2,275	975	-	-	325	155	5	INCLUDES SPEEDWAY DR, WHITNALL EDGE RD, VENTURE DR
0010	USH 45 SB	904+00	-	920+22	-	2,560	2,160	245	335	-	-	-	-	
0010		920+22	-	940+20	85	3,750	2,165	295	60	20	-	160	3	INCLUDES RAWSON NW RAMP, FRONTAGE RD WEST
0010		940+20	-	952+10	40	1,525	910	250	-	-	70	75	2	INCLUDES CORTEZ CR, PRARIEWOOD LN
0010		952+10	-	978+99	170	4,185	2,360	1,835	-	-	325	110	4	INCLUDES SPEEDWAY DR, WHITNALL EDGE RD, VENTURE DR
				TOTAL 0010	580	39,755		5,800	945		810	775	20	

3

TEMPORARY PAVEMENT MARKING ITEMS

					643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH				643.3250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH		643.3505 TEMPORARY MARKING ARROW PAINT	643.3805	643.3850	643.3950
					DASHED WHITE 12.5' LINE 37.5' SKIP				DASHED WHITE 3' LINE 9' SKIP					
CATEGORY	LOCATION	STATION	TO	STATION	WHITE LF	YELLOW LF	DOUBLE YELLOW LF		WHITE LF		TYPE 2 EACH	TEMPORARY MARKING STOP LINE PAINT 18-INCH LF	TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH LF
0010	STAGE 1	890+00	-	905+00	225	105	1,200	--	--	--	--	--	--	--
0010	STAGE 1	905+00	-	918+50	2,160	675	2,705	--	--	--	--	--	--	--
0010	STAGE 1	918+50	-	932+50	2,310	620	2,035	--	125	--	--	35	--	--
0010	STAGE 1	932+50	-	947+00	2,485	725	1,755	--	200	--	--	--	--	--
0010	STAGE 1	947+00	-	961+50	2,630	720	970	--	260	35	--	70	--	--
0010	STAGE 1	961+50	-	975+50	1,915	825	1,485	--	--	55	--	--	--	--
0010	STAGE 1	975+50	-	983+50	700	60	265	--	--	25	--	--	--	--
0010	STAGE 2	890+00	-	905+00	620	180	400	240	550	60	2	--	--	--
0010	STAGE 2	905+00	-	918+50	2,565	540	185	2,675	550	--	--	--	--	--
0010	STAGE 2	918+50	-	932+50	2,610	695	--	2,635	--	--	--	--	--	--
0010	STAGE 2	932+50	-	947+00	2,415	730	--	2,445	--	--	--	--	--	--
0010	STAGE 2	947+00	-	961+50	2,725	685	2,725	2,725	495	35	2	24	--	--
0010	STAGE 2	961+50	-	975+50	2,295	575	--	1,985	--	25	2	--	--	--
0010	STAGE 2	975+50	-	983+50	1,025	90	--	--	--	--	1	--	--	--
0010	STAGE 3	890+00	-	905+00	955	255	820	--	420	60	--	--	--	--
0010	STAGE 3	905+00	-	918+50	2,735	685	300	2,740	--	--	--	--	--	--
0010	STAGE 3	918+50	-	932+50	2,460	645	--	2,575	--	--	--	--	--	--
0010	STAGE 3	932+50	-	947+00	2,705	745	135	2,390	--	--	--	--	36	5
0010	STAGE 3	947+00	-	961+50	2,805	745	--	2,705	355	75	--	--	95	175
0010	STAGE 3	961+50	-	975+50	2,285	590	610	3,265	2,185	75	--	--	--	--
0010	STAGE 3	975+50	-	983+50	695	250	860	--	60	35	--	--	--	--
0010	STAGE 4	890+00	-	905+00	--	350	1,385	--	--	--	--	--	--	--
0010	STAGE 4	905+00	-	918+50	--	675	2,700	--	--	--	--	--	--	--
0010	STAGE 4	918+50	-	932+50	--	700	2,800	--	--	--	--	--	--	--
0010	STAGE 4	932+50	-	947+00	--	730	2,900	--	--	--	--	--	--	--
0010	STAGE 4	947+00	-	961+50	--	730	2,700	--	755	35	--	--	62	--
0010	STAGE 4	961+50	-	975+50	--	645	2,620	--	45	--	--	--	--	--
0010	STAGE 4	975+50	-	983+50	95	115	810	--	95	--	--	--	--	--
				TOTAL 0010		115,245				6,610	7	129	193	180

3

CONSTRUCTION STAKING ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.7500 CONSTRUCTION STAKING CONCRETE BARRIER LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9500 CONSTRUCTION STAKING SIDEWALK 01. 2040-14-70 EACH	650.9911 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 01. 2040-14-70 EACH
0010	USH 45	BEGIN	-	END	237	5,490	5,490	27,062	2	893	5,490	1	1
				TOTAL 0010	237	5,490	5,490	27,062	2	893	5,490	1	1

3

PAVEMENT MARKING REMOVAL ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9055 MARKING REMOVAL LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH
0010	USH 45	905+00	-	923+50	7,250	--	1,780	--	--
0010		923+50	-	933+75	1,880	25	150	--	4
0010		933+75	-	940+25	1,090	50	240	--	--
0010		940+25	-	945+75	750	50	200	--	--
0010		945+75	-	952+00	920	50	300	--	--
		952+00		963+00	1,720	50	220	--	--
		963+00		967+00	620	25	120	--	--
		967+00		980+00	500	25	130	--	--
		UNDISTRIBUTED			370	10	80	100	2
				TOTAL 0010	15,100	285	3,220	100	6

SAWING ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	* 690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF
0010	USH 45 NB	BEGIN PROJECT	-	918+50	100	580
0010		961+50	-	END PROJECT	--	398
0010	USH 45 SB	BEGIN PROJECT	-	918+50	97	474
0010		961+50	-	END PROJECT	--	458
0010	RAWSON NW RAMP		-		157	289
0010	PHYLLIS LANE		-		21	60
0010	HERDA PLACE		-		21	70
0010	CORTEZ CIRCLE (SOUTH)		-		37	95
0010	CORTEZ ROAD		-		22	95
0010	CORTEZ CIRCLE (NORTH)		-		36	94
0010	PRAIRE WOOD LANE		-		35	77
0010	SPEEDWAY DRIVE		-		179	331
0010	WHITNAL EDGE ROAD		-		80	174
0010	VENTURE DRIVE		-		39	74
				TOTAL 0010	822	3,269

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

UTILITY LINE OPENING (ULO)

CATEGORY	LOCATION	STATION	TO	STATION	SPV.0060.35 EACH
0010	PHYLLIS LANE	BEGIN	-	END	2
0010	EAST FRONTAGE ROAD	BEGIN	-	END	2
0010	WEST FRONTAGE ROAD	BEGIN	-	END	2
0010	HERDA PLACE	BEGIN	-	END	2
0010	CORTEZ CIRCLE SOUTH	BEGIN	-	END	2
0010	CORTEZ ROAD	BEGIN	-	END	2
0010	CORTEZ CIRCLE NORTH	BEGIN	-	END	2
0010	PRAIRIEWOOD LANE	BEGIN	-	END	2
0010	SPEEDWAY DRIVE	BEGIN	-	END	8
0010	WHITNALL EDGE ROAD	BEGIN	-	END	2
0010	VENTURE DRIVE	BEGIN	-	END	2
0010	UNDISTRIBUTED	BEGIN	-	END	2
				TOTAL 0010	30

3

SAWING CONCRETE

CATEGORY	LOCATION	STATION	TO	STATION	* 690.0250 LF	REMARKS
0010	USH 45 STAGE 2	BEGIN	-	END	5,000	SAW CUTS FOR STAGING REMOVALS
0010	USH 45 STAGE 3	BEGIN	-	END	2,500	
	TOTAL 0010				7,500	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY PRECAST TRENCH DRAIN

CATEGORY	LOCATION	STATION	TO	STATION	SPV.0090.06 LF
0010	USH 45	904+00	-	923+24	306
				TOTAL 0010	306

3

SECTION CORNER MONUMENTS

CATEGORY	LOCATION	STATION	TO	STATION	SPV.0060.10 EACH
0010	USH 45	UNDISTRIBUTED			2
	TOTAL 0010				2

WALL MODULAR BLOCK GRAVITY LANDSCAPE (STA 953+25)

CATEGORY	LOCATION	STATION	TO	STATION	SPV.0165.01 SF
0010	USH 45	953+15	-	953+35	80
				TOTAL 0010	80

FIELD OFFICE TYPE T

CATEGORY	LOCATION	STATION	TO	STATION	SPV.0060.34 EACH
0010	USH 45	BEGIN	-	END	1
				TOTAL 0010	1

MILLING AND REMOVING TEMPORARY JOINT

CATEGORY	LOCATION	STATION	TO	STATION	SPV.0195.01 TON
0010	USH 45	BEGIN	-	END	100
				TOTAL 0010	100

3

LIGHTING - REMOVALS

204.0195 REMOVING CONCRETE BASES
204.9060.S.01 REMOVING LIGHTING UNITS
659.5000.S.01 LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR

CATEGORY	STAGE	SYSTEM	DESCRIPTION	LOCATION	OFFSET	204.0195 REMOVING CONCRETE BASES	204.9060.S.01 REMOVING LIGHTING UNITS	659.5000.S.01 LAMP, BALLAST, SWITCH DISPOSAL BY CONTRACTOR	COMMENTS
						EACH	EACH	EACH	
0020	1 - 3	CITY OF FRANKLIN	13-00606	919+86	66' LT	1	1	1	--
			13-00611	300+91	25' LT	1	1	1	--
			64-3809	400+72	28' LT	1	1	1	--
			12-07089	939+86	75' LT	1	1	1	--
			80-02790	450+72	22' LT	1	1	1	--
			08-L-13475	499+17	26' RT	1	1	1	--
			76-1827	500+80	26' LT	1	1	1	--
			80-05872	600+75	25' LT	1	1	1	--
			87-08031	967+39	69' RT	1	1	1	--
0020					TOTALS	9	9	9	

SHEET 1 OF 16

3

3

LIGHTING - REMOVALS

204.0195 REMOVING CONCRETE BASES*
SPV.0060.32 LIGHTING UNITS SALVAGED

CATEGORY	STAGE	SYSTEM	DESCRIPTION	LOCATION	OFFSET	204.0195* REMOVING CONCRETE BASES	SPV.0060.32 LIGHTING UNITS SALVAGED	COMMENTS
						EACH	EACH	
0010	1 - 3	CITY OF FRANKLIN	CB1-1	969+46	3.0' RT	1	1	--
			CB1-2	971+19	11.5' RT	1	1	--
0010					TOTALS	2	2	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING - CONDUIT AND WIRE

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
655.0625 ELECTRICAL WIRE LIGHTING 6 AWG

CATEGORY	STAGE	SYSTEM	CIRCUIT	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	COMMENTS
0020	1 - 3	LCCB - 01		STUBOUT SOUTH	LCC01-01	15	--	--	--	CITY OF FRANKLIN - LIGHTING CONTROL CABINET (LCCB)
			A/N/B/GND	LCC01-01	LPB-34	25	--	--	100	--
			A/N/B/GND	LPB-34	LPB-33	90	--	--	360	--
			A/N/B/GND	LCC01-02	LPB-33	20	--	--	80	--
			A/N/B/GND	LPB-33	LPB-32	100	--	--	400	--
			A/N/B/GND	LCC01-03	LPB-32	20	--	--	80	--
			A/N/B/GND	LPB-32	LPB-31	100	--	--	400	--
			A/N/B/GND	LCC01-04	LPB-31	20	--	--	80	--
			A/N/B/GND	LPB-31	LPB-30	100	--	--	400	--
			A/N/B/GND	LCC01-05	LPB-30	20	--	--	80	--
			A/N/B/GND	LPB-30	LPB-29	100	--	--	400	--
			A/N/B/GND	LPB-29	LCC01-06	20	--	--	80	--
			A/N/B/GND	LPB-29	LPB-27	100	--	--	400	--
			A/N/B/GND	LPB-27	LCC01-07	15	--	--	60	--
			A/N/GND	LPB-27	LPB-28	--	65	195	--	--
			A/N/GND	LPB-28	13-00606	45	--	135	--	--
				13-00606	STUBOUT WEST	15	--	--	--	--
			A/N/B/GND	LPB-27	LPB-26	105	--	--	420	--
			A/N/B/GND	LPB-26	LCC01-08	15	--	--	60	--
			A/N/B/GND	LPB-26	LPB-25	90	--	--	360	--
			A/N/B/GND	LPB-25	LCC01-09	20	--	--	80	--
			A/N/B/GND	LPB-25	LPB-24	85	--	--	340	--
			A/N/B/GND	LPB-24	LCC01-10	10	--	--	40	--
			A/N/B/GND	LPB-24	LPB-22	--	145	--	580	--
			A/N/B/GND	LPB-22	LCC01-11	10	--	--	40	--
		LCCB - 01			SUBTOTALS	1,140	210	330	4,840	

LIGHTING - CONDUIT AND WIRE CONTINUED

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
655.0625 ELECTRICAL WIRE LIGHTING 6 AWG

CATEGORY	STAGE	SYSTEM	CIRCUIT	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	COMMENTS
0020	1 - 3	LCCB - 01	A/N/GND	LPB-22	LPB-23	--	80	240	--	--
			A/N/GND	LPB-23	13-00611	70	--	210	--	--
				13-00611	EAST STUBOUT	15	--	--	--	--
			A/N/B/GND	LPB-22	LPB-21	90	--	--	360	--
			A/N/B/GND	LPB-21	LCC01-12	15	--	--	60	--
			A/N/B/GND	LPB-21	LPB-20	100	--	--	400	--
			A/N/B/GND	LPB-20	LCC01-13	20	--	--	80	--
			A/N/B/GND	LPB-20	LPB-19	100	--	--	400	--
			A/N/B/GND	LPB-19	LCC01-14	15	--	--	60	--
			A/N/B/GND	LPB-19	LPB-18	100	--	--	400	--
			A/N/B/GND	LPB-18	LCC01-15	15	--	--	60	--
			A/N/B/GND	LPB-18	LPB-17	100	--	--	400	--
			A/N/B/GND	LPB-17	LCC01-16	15	--	--	60	--
			A/N/B/GND	LPB-17	LPB-16	100	--	--	400	--
			A/N/B/GND	LPB-16	LCC01-17	15	--	--	60	--
			A/N/B/GND	LPB-16	LPB-15	100	--	--	400	--
			A/N/B/GND	LPB-15	LCC01-18	15	--	--	60	--
			A/N/B/GND	LPB-15	LPB-14	90	--	--	360	--
			A/N/B/GND	LPB-14	LCC01-19	15	--	--	60	--
			A/N/B/GND	LPB-14	LPB-13	90	--	--	360	--
			A/N/B/GND	LPB-13	LCC01-20	15	--	--	60	--
			A/N/B/GND	LPB-13	LPB-11	--	115	--	460	--
			A/N/GND	LPB-11	LPB-12	--	55	165	--	--
			A/N/GND	LPB-12	64-3809	85	--	255	--	--
				64-3809	EAST STUBOUT	15	--	--	--	--
		LCCB - 01			SUBTOTALS	1,195	250	870	4,500	

LIGHTING - CONDUIT AND WIRE CONTINUED

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
655.0625 ELECTRICAL WIRE LIGHTING 6 AWG

CATEGORY	STAGE	SYSTEM	CIRCUIT	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	COMMENTS
0020	1 - 3	LCCB - 01	A/N/B/GND	LPB-11	LCC01-21	10	--	--	240	--
			A/N/B/GND	LPB-11	LPB-10	55	--	--	220	--
			A/N/B/GND	LPB-10	LCC01-22	15	--	--	60	--
			A/N/B/GND	LPB-10	LPB-09	100	--	--	400	--
			A/N/B/GND	LPB-09	LCC01-23	15	--	--	60	--
			A/N/B/GND	LPB-09	LPB-08	90	--	--	360	--
			A/N/B/GND	LPB-08	LCC01-24	15	--	--	60	--
			A/N/B/GND	LPB-08	LPB-07	100	--	--	400	--
			A/N/B/GND	LPB-07	LCC01-25	15	--	--	60	--
			A/N/B/GND	LPB-07	LPB-06	135	--	--	540	--
			A/N/B/GND	LPB-06	LCC01-26	45	--	--	180	--
			A/N/B/GND	LPB-06	LPB-04	--	145	--	580	--
			A/N/B/GND	LPB-04	LCC01-27	15	--	--	60	--
			A/N/GND	LPB-04	LPB-05	--	55	165	--	--
			A/N/GND	LPB-05	80-02790	95	--	285	--	--
				80-02790	STUBOUT EAST	15	--	--	--	--
			A/N/B/GND	LPB-04	LPB-03	--	65	--	260	--
			A/N/B/GND	LPB-03	LCCB-01	--	70	--	280	CITY OF FRANKLIN - LIGHTING CONTROL CABINET (LCCB)
			C/N/D/GND	LPB-04	LPB-03	--	65	--	260	--
			C/N/D/GND	LPB-03	LCCB-01	--	70	--	280	CITY OF FRANKLIN - LIGHTING CONTROL CABINET (LCCB)
			A/N/GND	LCCB-01	LPB-01	5	--	15	--	--
			A/N/GND	LPB-01	LPB-02	--	50	150	--	--
			A/N/GND	LPB-02	12-07089	--	10	30	--	--
				12-07089	STUBOUT EAST	15	--	--	--	
			C/N/D/GND	LPB-04	LPB-35	110	--	--	440	--
			C/N/D/GND	LPB-35	LCC01-28	15	--	--	60	--
LCCB - 01					SUBTOTALS	865	530	645	4,800	

LIGHTING - CONDUIT AND WIRE CONTINUED

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
655.0625 ELECTRICAL WIRE LIGHTING 6 AWG

CATEGORY	STAGE	SYSTEM	CIRCUIT	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG	COMMENTS
						LF	LF	LF	LF	
0020	1 - 3	LCCB - 01	C/N/D/GND	LPB-35	LPB-36	70	--	--	280	--
			C/N/D/GND	LPB-36	LCC01-29	15	--	--	60	--
			C/N/D/GND	LPB-36	LPB-37	100	--	--	400	--
			C/N/D/GND	LPB-37	LCC01-30	15	--	--	60	--
			C/N/D/GND	LPB-37	LPB-38	125	--	--	500	--
			C/N/D/GND	LPB-38	LCC01-31	10	--	--	40	--
			C/N/GND	LPB-38	LPB-39	--	60	180	--	--
			C/N/GND	LPB-39	08-L-13475	55	--	165	--	--
				08-L-13475	STUBOUT WEST	15	--	--	--	--
			C/N/D/GND	LPB-38	LPB-40	--	140	--	560	--
			C/N/D/GND	LPB-40	LCC01-32	10	---	--	40	--
			C/N/D/GND	LPB-40	LPB-42	90	--	--	360	--
			C/N/D/GND	LPB-42	LCC01-33	20	--	--	80	
			C/N/GND	LPB-40	LPB-41	--	65	--	195	--
			C/N/GND	LPB-41	76-1827	55	--	165	--	--
				76-1827	STUBOUT EAST	15	--	--	--	--
			C/N/D/GND	LPB-42	LPB-43	75	--	--	300	--
			C/N/D/GND	LPB-43	LCC01-34	10	--	--	40	--
			C/N/D/GND	LPB-43	LPB-44	90	--	--	360	--
			C/N/D/GND	LPB-44	LCC01-35	15	--	--	60	--
			C/N/D/GND	LPB-44	LPB-45	75	--	--	300	--
			C/N/D/GND	LPB-45	LCC01-36	10	--	--	40	--
				LCC01-34	STUBOUT NORTH	15	--	--	--	--
		LCCB - 01			SUBTOTALS	885	265	510	3,675	
		LCCB - 02		STUBOUT SOUTH	LCC02-13	15	--	--	--	--
			C/N/D/GND	LCC02-13	LPB-16	10	--	--	40	--
					SUBTOTALS	25	0	0	40	

LIGHTING - CONDUIT AND WIRE CONTINUED

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
655.0625 ELECTRICAL WIRE LIGHTING 6 AWG

CATEGORY	STAGE	SYSTEM	CIRCUIT	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	COMMENTS
0020	1 - 3	LCCB - 02	C/N/D/GND	LPB-16	LPB-17	95	--	--	380	--
			C/N/D/GND	LPB-17	LCC02-14	10	--	--	40	--
			C/N/D/GND	LPB-17	LPB-18	100	--	--	400	--
			C/N/D/GND	LPB-18	LCC02-15	10	--	--	40	--
			C/N/D/GND	LPB-18	LPB-14	105	--	--	--	--
			C/N/D/GND	LPB-14	LCC02-01	15	--	--	60	--
			C/N/D/GND	LPB-14	LPB-13	110	--	--	440	--
			C/N/D/GND	LPB-13	LCC02-02	15	--	--	60	--
			C/N/D/GND	LPB-13	LPB-12	110	--	--	440	--
			C/N/D/GND	LPB-12	LCC02-03	15	--	--	60	--
			C/N/D/GND	LPB-12	LPB-11	110	--	--	440	--
			C/N/D/GND	LPB-11	LCC02-04	20	--	--	80	--
			C/N/D/GND	LPB-11	LPB-10	110	--	--	440	--
			C/N/D/GND	LPB-10	LCC02-05	15	--	--	60	--
			C/N/D/GND	LPB-10	LPB-09	110	--	--	440	--
			C/N/D/GND	LPB-09	LCC02-06	15	--	--	60	--
			C/N/D/GND	LPB-09	LPB-07	--	110	--	440	--
			C/N/GND	LPB-07	LPB-08	--	75	210	--	--
			C/N/GND	LPB-08	80-05872	10	--	75	--	--
				80-05872	STUBOUT EAST	15	--	--	--	--
			C/N/D/GND	LPB-07	LCC02-07	20	--	--	80	--
			C/N/D/GND	LPB-07	LPB-06	140	--	--	560	--
			C/N/D/GND	LPB-06	LCC02-08	15	--	--	60	--
			C/N/D/GND	LPB-06	LPB-05	100	--	--	400	--
			C/N/D/GND	LPB-05	LCC02-09	15	--	--	60	--
		LCCB - 02			SUBTOTALS	1,280	185	285	5,040	

3

LIGHTING - CONDUIT AND WIRE CONTINUED

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
655.0625 ELECTRICAL WIRE LIGHTING 6 AWG

CATEGORY	STAGE	SYSTEM	CIRCUIT	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	COMMENTS
0020	1 - 3	LCCB - 02	C/N/D/GND	LPB-05	LPB-04	65	--	--	260	--
			C/N/D/GND	LPB-04	LCC02-10	15	--	--	60	--
			C/N/D/GND	LPB-04	LPB-03	--	70	--	280	--
			C/N/D/GND	LPB-03	LPB-02	--	50	--	200	--
			C/N/D/GND	LPB-02	LPB-01	50	--	--	200	--
			C/N/D/GND	LPB-01	LCCB-02	15	--	--	60	CITY OF FRANKLIN - LIGHTING CONTROL CABINET (LCCB)
			A/N/B/GND	LPB-03	LPB-02	--	50	--	200	--
			A/N/B/GND	LPB-02	LPB-01	50	--	--	200	--
			A/N/B/GND	LPB-01	LCCB-02	15	--	--	60	CITY OF FRANKLIN - LIGHTING CONTROL CABINET (LCCB)
			C/N/GND	LPB-01	87-08031	15	--	45	--	--
			A/N/B/GND	LPB-03	LCC02-11	15	--	--	60	--
			A/N/B/GND	LPB-03	LPB-15	95	--	--	380	--
			A/N/B/GND	LPB-15	LCC02-12	15	--	--	60	--
				LCC02-12	STUBOUT NORTH	15	--	--	--	--
					SUBTOTALS	365	170	45	2,020	
0020					TOTALS	4,870	1,345	2,175	21,240	

3

LIGHTING - PULL BOXES

SPV.0060.26 LIGHTING PULL BOXES NON-METALLIC FRANKLIN 13X24X18-INCH
655.0615 ELECTRICAL WIRE LIGHTING 10 AWG

CATEGORY	STAGE	SYSTEM	DESCRIPTION	LOCATION	OFFSET	SPV.0060.26 LIGHTING PULL BOXES NON-METALLIC FRANKLIN 13X24X18-INCH EACH	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	COMMENTS
0020	1 - 3	LCCB - 01	LPB-01	940+47	83.7' LT	1	5	--
			LPB-02	939+98	93.5' LT	1	10	--
			LPB-03	941+09	76.2' LT	1	70	--
			LPB-04	941+10	6.6' RT	1	135	--
			LPB-05	941+11	61.0' RT	1	95	--
			LPB-06	939+61	3.4' LT	1	40	--
			LPB-07	938+25	1.3' LT	1	15	--
			LPB-08	937+25	1.3' LT	1	15	--
			LPB-09	936+04	1.6' RT	1	15	--
			LPB-10	935+05	5.8' RT	1	15	--
			LPB-11	934+49	6.3' RT	1	15	--
			LPB-12	934+49	60.9' RT	1	85	--
			LPB-13	932+96	2.9' LT	1	15	--
			LPB-14	932+05	6.2' LT	1	15	--
			LPB-15	931+14	3.8' LT	1	15	--
			LPB-16	930+14	1.4' LT	1	15	--
			LPB-17	929+14	1.2' LT	1	15	--
			LPB-18	928+14	1.1' LT	1	15	--
			LPB-19	927+14	0.6' LT	1	15	--
			LPB-20	926+13	3.8' T	1	15	--
			LPB-21	925+14	6.0' RT	1	15	--
			LPB-22	924+22	6.0' RT	1	10	--
			LPB-23	924+17	85.4' RT	1	70	--
LCCB - 01					SUBTOTALS	23	730	

LIGHTING - PULL BOXES CONTINUED

SPV.0060.26 LIGHTING PULL BOXES NON-METALLIC FRANKLIN 13X24X18-INCH
655.0615 ELECTRICAL WIRE LIGHTING 10 AWG

CATEGORY	STAGE	SYSTEM	DESCRIPTION	LOCATION	OFFSET	SPV.0060.26 LIGHTING PULL BOXES NON-METALLIC FRANKLIN 13X24X18-INCH EACH	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	COMMENTS
0020	1 - 3	LCCB - 01	LPB-24	922+75	3.2' LT	1	15	--
			LPB-25	921+90	2.3' LT	1	15	--
			LPB-26	920+98	2.4' LT	1	15	--
			LPB-27	919+92	1.9' LT	1	15	--
			LPB-28	919+80	65.4' LT	1	45	--
			LPB-29	918+96	0.2' RT	1	15	--
			LPB-30	917+96	3.3' RT	1	15	--
			LPB-31	916+95	7.4' RT	1	15	--
			LPB-32	915+95	5.0' RT	1	15	--
			LPB-33	914+95	2.5' RT	1	15	--
			LPB-34	914+03	1.5' RT	1	25	--
			LPB-35	942+20	1.5' RT	1	15	--
			LPB-36	942+91	4.6' LT	1	15	--
			LPB-37	943+91	9.8' LT	1	15	--
			LPB-38	945+15	10.1' LT	1	10	--
			LPB-39	945+63	75.1' LT	1	10	--
			LPB-40	946+57	4.9' RT	1	10	--
			LPB-41	946+56	73.7' RT	1	60	--
			LPB-42	946+57	4.9' RT	1	15	--
			LPB-43	948+25	0.0' RT	1	15	--
			LPB-44	949+17	10.2' LT	1	15	--
			LPB-45	950+23	9.9' LT	1	15	--
LCCB - 01					SUBTOTALS	22	165	--
LCCB - 02			LPB-01	967+24	96.1' RT	1	15	--
			LPB-02	967+51	61.0' RT	1	50	--
LCCB - 02					SUBTOTALS	2	65	

3

LIGHTING - PULL BOXES CONTINUED

SPV.0060.26 LIGHTING PULL BOXES NON-METALLIC FRANKLIN 13X24X18-INCH
655.0615 ELECTRICAL WIRE LIGHTING 10 AWG

CATEGORY	STAGE	SYSTEM	DESCRIPTION	LOCATION	OFFSET	SPV.0060.26 LIGHTING PULL BOXES NON-METALLIC FRANKLIN 13X24X18-INCH	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG	COMMENTS
						EACH	LF	
0020	1-3	LCCB-02	LPB-03	967+43	9.0' RT	1	15	--
			LPB-04	966+56	4.6' RT	1	15	--
			LPB-05	965+88	7.2' RT	1	15	--
			LPB-06	964+88	10.0' RT	1	15	--
			LPB-07	963+48	9.9' RT	1	20	--
			LPB-08	963+06	74.6' RT	1	10	--
			LPB-09	962+38	9.8' LT	1	15	--
			LPB-10	961+26	10.2' LT	1	15	--
			LPB-11	960+14	4.0' LT	1	15	--
			LPB-12	959+01	1.4' RT	1	15	--
			LPB-13	957+89	1.1' RT	1	15	--
			LPB-14	956+78	6.7' RT	1	15	--
			LPB-15	955+70	9.6' RT	1	15	--
			LPB-16	954+69	10.2' RT	1	15	--
			LPB-17	953+71	10.0' RT	1	15	--
			LPB-18	968+41	5.7' RT	1	15	--
		LCCB-02			SUBTOTALS	15	225	
0020					TOTALS	62	1,185	

SHEET 11 OF 16

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET:	E

3

LIGHTING - LUMINAIRE ARMS AND POLES

SPV.0060.11 CONCRETE BASES TYPE 5 MODIFIED
655.0610 ELECTRICAL WIRE LIGHTING 12 AWG
SPV.0060.27 DECORATIVE LIGHTING POLE AND LED LUMINAIRE SINGLE
SPV.0060.28 DECORATIVE LIGHTING POLE AND LED LUMINAIRE TWIN

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	LOCATION STATION	LOCATION OFFSET	SPV.0060.11 CONCRETE BASES TYPE 5 MODIFIED	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	SPV.0060.27 DECORATIVE LIGHTING POLE AND LED LUMINAIRE SINGLE	SPV.0060.28 DECORATIVE LIGHTING POLE AND LED LUMINAIRE TWIN	COMMENTS
						EACH	LF	EACH	EACH	
0020	1 - 3	LCCB - 01	LCC01-01	913+77	0.9' RT	1	234	--	1	--
			LCC01-02	914+77	1.4' RT	1	234	--	1	--
			LCC01-03	915+77	3.7' RT	1	234	--	1	--
			LCC01-04	916+78	7.7' RT	1	234	--	1	--
			LCC01-05	917+78	3.7' RT	1	234	--	1	--
			LCC01-06	918+78	0.3' LT	1	234	--	1	--
			LCC01-07	919+79	2.2' LT	1	234	--	1	--
			13-00606	920+07	98.5' RT	1	117	1	--	--
			LCC01-08	920+80	1.8' LT	1	234	--	1	--
			LCC01-09	921+73	2.3' LT	1	234	--	1	--
			LCC01-10	922+65	1.5' LT	1	234	--	1	--
			13-00611	923+65	108.5' RT	1	117	1	--	--
			LCC01-11	924+30	6.2' RT	1	234	--	1	--
			LCC01-12	925+30	5.7' RT	1	234	--	1	--
			LCC01-13	926+30	3.0' RT	1	234	--	1	--
			LCC01-14	927+30	1.2' LT	1	234	--	1	--
			LCC01-15	928+30	1.1' LT	1	234	--	1	--
			LCC01-16	929+30	1.2' LT	1	234	--	1	--
			LCC01-17	930+30	1.4' LT	1	234	--	1	--
			LCC01-18	931+30	2.7' LT	1	234	--	1	--
		LCCB - 01			SUBTOTALS	20	4,446	2	18	

LIGHTING - LUMINAIRE ARMS AND POLES CONTINUED

SPV.0060.11 CONCRETE BASES TYPE 5 MODIFIED
655.0610 ELECTRICAL WIRE LIGHTING 12 AWG
SPV.0060.27 DECORATIVE LIGHTING POLE AND LED LUMINAIRE SINGLE
SPV.0060.28 DECORATIVE LIGHTING POLE AND LED LUMINAIRE TWIN

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	LOCATION STATION	LOCATION OFFSET	SPV.0060.11 CONCRETE BASES TYPE 5 MODIFIED	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	SPV.0060.27 DECORATIVE LIGHTING POLE AND LED LUMINAIRE SINGLE	SPV.0060.28 DECORATIVE LIGHTING POLE AND LED LUMINAIRE TWIN	COMMENTS
						EACH	LF	EACH	EACH	
0020	1 - 3	LCCB - 01	LCC01-19	932+22	4.2' LT	1	234	--	1	--
			LCC01-20	933+13	3.1' LT	1	234	--	1	--
			64-3809	934+01	107.0' RT	1	117	1	--	--
			LCC01-21	934+42	6.0' RT	1	234	--	1	--
			LCC01-22	935+19	5.7' RT	1	234	--	1	--
			LCC01-23	936+19	1.0' RT	1	234	--	1	--
			LCC01-24	937+09	1.2' LT	1	234	--	1	--
			LCC01-25	938+09	1.2' LT	1	234	--	1	--
			12-07089	939+98	83.9' LT	1	117	1	--	--
			80-02790	940+51	105.1' RT	1	117	1	--	--
			LCC01-26	939+18	1.8' LT	1	234	--	1	--
			LCC01-27	940+95	5.7' RT	1	234	--	1	--
			LCC01-28	942+05	3.0' RT	1	234	--	1	--
			LCC01-29	943+06	5.5' LT	1	234	--	1	--
			08-L-13475	945+64	82.7' LT	1	117	1	--	--
			76-1827	946+06	84.3' RT	1	117	1	--	--
			LCC01-30	944+06	10.1' LT	1	234	--	1	--
			LCC01-31	945+07	11.3' LT	1	234	--	1	--
			LCC01-32	946+65	5.1' RT	1	234	--	1	--
			LCC01-33	947+65	4.6' RT	1	234	--	1	--
		LCCB - 01			SUBTOTALS	20	4,095	5	15	

LIGHTING - LUMINAIRE ARMS AND POLES CONTINUED

SPV.0060.11 CONCRETE BASES TYPE 5 MODIFIED
655.0610 ELECTRICAL WIRE LIGHTING 12 AWG
SPV.0060.27 DECORATIVE LIGHTING POLE AND LED LUMINAIRE SINGLE
SPV.0060.28 DECORATIVE LIGHTING POLE AND LED LUMINAIRE TWIN

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	LOCATION STATION	LOCATION OFFSET	SPV.0060.11 CONCRETE BASES TYPE 5 MODIFIED	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	SPV.0060.27 DECORATIVE LIGHTING POLE AND LED LUMINAIRE SINGLE	SPV.0060.28 DECORATIVE LIGHTING POLE AND LED LUMINAIRE TWIN	COMMENTS
						EACH	LF	EACH	EACH	
0020	1 - 3	LCCB - 01	LCC01-34	948+33	1.1' LT	1	234	--	1	--
			LCC01-35	949+33	9.6' LT	1	234	--	1	--
			LCC01-36	950+34	9.7' LT	1	234	--	1	--
		LCCB - 02	LCC02-01	953+62	10.3' RT	1	234	--	1	--
			LCC02-02	954+62	10.7' RT	1	234	--	1	--
			LCC02-03	955+62	9.8' RT	1	234	--	1	--
			LCC02-04	956+61	7.4' RT	1	234	--	1	--
			LCC02-05	957+73	0.9' RT	1	234	--	1	--
			LCC02-06	958+86	1.9' RT	1	234	--	1	--
			LCC02-07	959+98	2.8' LT	1	234	--	1	--
			LCC02-08	961+10	10.4' LT	1	234	--	1	--
			LCC02-09	962+23	9.8' LT	1	234	--	1	--
			80-05872	963+02	84.1' RT	1	117	1	--	--
			LCC02-10	963+72	10.3' RT	1	234	--	1	--
			LCC02-11	964+72	10.3' RT	1	234	--	1	--
			LCC02-12	965+73	7.7' RT	1	234	--	1	--
			LCC02-13	966+43	4.3' RT	1	234	--	1	--
			87-08031	967+25	83.9' RT	1	117	1	--	--
			LCC02-14	967+58	6.3' RT	1	234	--	1	--
			LCC02-15	968+52	5.5' RT	1	234	--	1	--
					SUBTOTALS	20	4,446	2	18	
0020					TOTALS	60	12,987	9	51	

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET:	E

FILE NAME: V:\Projects\295.01 - ID 2040-14-00 STH 100 - CTH BB to College Ave. - Lighting Design\Design\Quantities_Estimate\Dra
PLOT DATE : 27-APR-2023 PLOT BY : SINGH, INC. PLOT NAME : 030201_mq_ltg PLOT SCALE : 1:1

3

LIGHTING - LUMINAIRE ARMS AND POLES CONTINUED

655.0610 ELECTRICAL WIRE LIGHTING 12 AWG*
654.0105 CONCRETE BASES TYPE 5*

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	LOCATION STATION	LOCATION OFFSET	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG	654.0105* CONCRETE BASES TYPE 5	COMMENTS
						LF	EACH	
0010	1 - 3	CB1	CB1-1	969+46	3.0' RT	234	1	SALVAGED LIGHTING UNITS
			CB1-2	971+19	11.5' RT	234	1	""
0010					TOTALS	468	2	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

LIGHTING - CONTROL AND SERVICES
240/480 VAC 3-WIRE

650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (2040-14-70)
654.0230	CONCRETE CONTROL CABINET BASES TYPE L30
655.0640	ELECTRICAL WIRE LIGHTING 1 AWG
656.0401.01	ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (LCCB-01)
656.0401.02	ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (LCCB-02)
659.2230	LIGHTING CONTROL CABINETS 240/480 30-INCH
SPV.0060.13	LIGHTING SYSTEM INTEGRATOR (2040-14-70)
SPV.0060.14	LIGHTING SYSTEM SURVEY (2040-14-70)

CATEGORY	STAGE	DESCRIPTION / SEQUENCE	LOCATION STATION	LOCATION OFFSET	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (2040-14-70)	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30	655.0640 ELECTRICAL WIRE LIGHTING 1 AWG	656.0401.01 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (LCCB-01)	656.0401.02 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (LCCB-02)	659.2230 LIGHTING CONTROL CABINETS 240/480 30-INCH	SPV.0060.13 LIGHTING SYSTEM INTEGRATOR (2040-14-70)	SPV.0060.14 LIGHTING SYSTEM SURVEY (2040-14-70)	COMMENTS
					EACH	EACH	LF	EACH	EACH	EACH	EACH	EACH	
0020	1	PROJECT	2040-14-70		1	--	--	--	--	--	1	1	--
		LCCB - 01	940+47	77.8' LT	--	1	18	1	--	1	--	--	USH 45 / CORTEZ RD
		LCCB - 02	967+23	110.3' RT	--	1	18	--	1	1	--	--	USH 45 / VENTURE DR
0020				TOTALS	1	2	36	1	1	2	1	1	

PLAQUE TEXT LIGHTING CONTROL
USH 45 / CORTEZ ROAD
2 - 240 VAC WARNING (2 REQUIRED PER LOCATION; METER PEDESTAL AND CABINET DOOR)

PLAQUE TEXT LIGHTING CONTROL
USH 45 / VENTURE DRIVE
2 - 240 VAC WARNING (2 REQUIRED PER LOCATION; METER PEDESTAL AND CABINET DOOR)

TYPE II SIGNING REMOVALS

2040-14-70 US 45/STH 100

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS
1R	W5-52R		1	1	SHEET 2 OF 7
2R	JV4-1	SOUTH STH 45 STH 100	1	1	SHEET 3 OF 7
3R	JV3-1	SOUTH STH 45 STH 100 [RA]	1	1	
4R	R1-1		1	1	
5R	R1-1		1	1	
6R	W3-1		1	1	
7R	W3-1		1	1	
8R	R4-7		1	1	
9R	R3-2		1	1	ALSO REMOVES R5-1
10R	R5-1		1	1	
11R	NOT USED				
12R	R5-1A		1	1	ALSO REMOVES R2-1 SPEED LIMIT 50
13R	R5-1A		1	1	ALSO REMOVES R2-1 SPEED LIMIT 50
14R	R1-1		1	1	
15R	R7-1D		1	1	
16R	R3-7R		1	1	
17R	R3-7R		1	1	
18R	R3-5R		1	--	S-40-780 TO BE REMOVED
19R	R1-1		1	1	
20R	R6-2R		1	1	
21R	R7-1D		1	1	
22R	R6-2R		1	1	
23R	R7-1D		1	1	
24R	R1-1		1	1	
25R	R6-2R		1	1	
26R	R5-1		1	1	
27R	NOT USED				
28R	NOT USED				

3

SHEET 1 OF 5

TYPE II SIGNING REMOVALS

2040-14-70 US 45/STH 100

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS
29R	R1-7		1	1	
30R	R1-1		1	1	
31R	R1-1		1	1	
32R	R4-7		1	1	
33R	R4-7		1	1	
34R	R7-1L		1	1	
35R	R7-1D		1	1	
36R	R2-1	SPEED LIMIT 40	1	1	
37R	R2-1	SPEED LIMIT 40	1	1	
38R	R7-1D		1	1	
39R	R7-1D		1	1	
40R	JV3-1	SOUTH STH 45 STH 100 [RA]	1	1	SHEET 3A OF 7
41R	R7-1D		1	1	SHEET 4 OF 7
42R	R1-1		1	1	
43R	R1-1		1	--	
44R	R4-7		1	1	
45R	R4-7		1	1	
46R	R7-1D		1	1	
47R	R7-1D		1	1	
48R	R7-1D		1	1	ALSO REMOVES R2-1 SPEED LIMIT 40
49R	NOT USED				
50R	R2-1	SPEED LIMIT 40	1	1	ALSO REMOVES R7-1D
51R	NOT USED				

FILE NAME : N:\SPO\SER-OPS\Traffic\Signing\Miscellaneous Quantities\2040-14-70\030502_mq.pptx PLOT DATE : 24 March 2023 PLOT BY : DOTDHA PLOT NAME : 030502_MQ.PDF PLOT SCALE : 1:1

TYPE II SIGNING REMOVALS

2040-14-70 US 45/STH 100

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS
52R	R1-1		1	1	
53R	R1-1		1	--	
54R	R4-7		1	1	
55R	R4-7		1	1	
56R	NOT USED				
57R	R7-1D		1	1	
58R	R7-1D		1	1	
59R	R7-1D		1	1	
60R	R3-20LL		1	1	
61R	W3-3		1	1	
62R	W3-3		1	1	
63R	R4-7		1	1	
64R	R4-7		1	1	
65R	R1-1		1	--	
66R	R5-1		1	1	
67R	NOT USED				
68R	R1-1		1	1	
69R	R7-1D		1	1	SHEET 5 OF 7
70R	R3-20L		1	1	
71R	R3-20LL		1	1	
72R	R7-1D		1	1	
73R	R5-1A		1	1	SHEET 5A OF 7
74R	R5-1		1	1	
75R	R1-1F		1	--	
76R	R5-1		1	--	
77R	R4-7		1	1	
78R	R2-1	SPEED LIMIT 40	1	1	
79R	R4-7		1	--	
80R	R1-1F		1	--	

TYPE II SIGNING REMOVALS

2040-14-70 US 45/STH 100

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS
81R	R5-1		1	--	
82R	R1-1F		1	--	
83R	R1-1F		1	--	
84R	R1-1F		1	--	
85R	R1-1F		1	--	
86R	R5-1		1	--	
87R	R4-7		1	--	
88R	R7-1D		1	1	
89R	R2-1	SPEED LIMIT 40	1	1	
90R	R7-1D		1	1	
91R	R5-1A		1	1	SHEET 5 OF 7; ALSO REMOVES R7-1D
92R	NOT USED				
93R	R3-20LL		1	1	
94R	R3-20L		1	1	
95R	W3-3		1	1	
96R	W3-3		1	1	
97R	R7-1D		1	1	
98R	R2-1	SPEED LIMIT 40	1	1	
99R	R2-1	SPEED LIMIT 40	1	1	
100R	R4-7		1	1	
101R	R4-7		1	1	
102R	R2-1	SPEED LIMIT 40	1	1	
103R	R2-1	SPEED LIMIT 40	1	1	
104R	R7-1D		1	1	SHEET 6 OF 7
105R	R7-1D		1	1	
106R	R4-7		1	1	
107R	R1-1		1	--	
108R	R1-1		1	1	
109R	R7-1D		1	1	

3

SHEET 4 OF 5

TYPE II SIGNING REMOVALS

2040-14-70 US 45/STH 100

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	**638.2602** REMOVING SIGNS TYPE II [EA]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS
110R	R7-1D		1	1	
111R	R7-1D		1	1	
112R	W14-2		1	1	
113R	R1-1		1	1	
114R	R4-7		1	1	
115R	R4-7		1	1	
116R	R7-1D		1	1	
117R	W3-3		1	1	
118R	W3-3		1	1	
119R	R3-20L		1	1	
120R	R6-2R		1	1	
121R	R6-2R		1	1	
122R	R3-20LL		1	1	
123R	R5-1A		1	1	
124R	R2-1	SPEED LIMIT 40	1	1	
125R	W23-2		1	1	
126R	W23-2		1	1	
		UNDISTRIBUTED OR MOVED	--	20	--
	TOTALS		118	122	

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2'X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	W5-52R (3)		18	X 54		--	6.750	--	1	--	--		SHEET 2 OF 7; MOUNT HEIGHT 4 FEET
2	JV4-1 (3)		36	X 90		22.500	--	--	2	--	--		SHEET 3 OF 7
	M3-3		36	x 18									
	M1-4	US 45	36	x 36									
	M1-6	STH 100	36	x 36									
3	JV3-1 (2S)		24	X 81		13.500	--	--	1	--	--		
	M3-3		24	x 12									
	M1-4	US 45	24	x 24									
	M1-6	STH 100	24	x 24									
	M6-1R		21	x 21									
4	R1-1 (3)		36	X 36		7.460	--	--	1	--	--		
5	R1-1 (3)		36	X 36		7.460	--	--	1	--	--		
6	R1-1 (2S)		30	X 30		5.180	--	--	1	--	--		
7	W3-1 (2S)		36	X 36		--	9.000	--	1	--	--		
8	W3-1 (2S)		36	X 36		--	9.000	--	1	--	--		
9	R4-7 (2S)		24	x 30		5.000	--	--	1	--	--		
10	W5-54 (2S)		18	x 18		--	2.250	--	--	--	--	9	MOUNT HEIGHT 2 FEET
11	R3-2 (2S)		24	X 24		4.000	--	--	--	--	--	5	
12	R5-1 (3)		36	X 36		9.000	--	--	1	--	--		
13	R9-3A (2S)		24	X 24		4.000	--	--	--	--	--	12	MOUNT ON BACK OF SIGN NO. 12
14	R9-3BL (2S)		18	X 12		1.500	--	--	--	--	--	13	MOUNT BELOW SIGN NO. 13
15	W11-2 (3)		36	X 36		--	9.000	--	1	--	--		
16	W16-7R (3)		30	X 18		--	3.750	--	--	--	--	15	MOUNT BELOW SIGN NO. 15
17	R7-1D (3)		24	X 30		5.000	--	--	1	--	--		
18	R7-1D (3)		24	X 30		5.000	--	--	1	--	--		
19	R1-1 (3)		36	X 36		7.460	--	--	1	--	--		
20	R4-4 (2M)		36	X 30		7.500	--	--	1	--	--		
21	R2-1 (3)	SPEED LIMIT 50	36	X 48		12.000	--	--	1	--	--		
22	R2-1 (3)	SPEED LIMIT 50	36	X 48		12.000	--	--	1	--	--		
23	R3-7R (3)		36	X 36		9.000	--	--	1	--	--		
24	R1-1 (3)		36	X 36		7.460	--	--	1	--	--		

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2'X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
25	R6-2R (3)		36	X 48		12.000	--	--	1	--	--		
26	R5-1 (3)		36	X 36		9.000	--	--	1	--	--		
27	R5-1 (3)		36	X 36		9.000	--	--	1	--	--		
28	R5-1 (3)		36	X 36		9.000	--	--	--	--	--	27	
29	W1-7 (2S)		48	X 24		--	8.000	--	1	--	--		
30	R3-17 (2M)		30	X 24		5.000	--	--	1	--	--		
31	R3-17A (2M)		30	X 12		2.500	--	--	--	--	--	30	MOUNT BELOW SIGN NO. 30
32	R5-1A (3)		42	X 30		8.750	--	--	--	--	--	21	MOUNT ON BACK OF SIGN NO. 21
33	R5-1A (3)		42	X 30		8.750	--	--	--	--	--	22	MOUNT ON BACK OF SIGN NO. 22
34	R12-1	WEIGHT LIMIT 3 TONS							1	--	1		
35	D12-50								--	--	1	34	MOUNT BELOW SIGN NO. 34
36	D16-1	TO RAWSON AVE ONLY	48	X 72		24.000	--	--	--	--	--		MOUNT ON MAST ARM OF S-40-3098
37	R7-1D (3)		24	X 30		5.000	--	--	1	--	--		
38	J3-1								2	--	1		
	M1-5A	COUNTY BB											
	M6-2												
39	D1-1 (MOD)	RAWSON AVE 7100 S							--	--	1	38	MOUNT BELOW SIGN NO. 38
40	J1-1								2	--	1		
	M2-1												
	M1-5A	COUNTY BB											
41	D1-1 (MOD)	RAWSON AVE 7100 S							--	--	1	40	MOUNT BELOW SIGN NO. 40
42	R7-1D (3)		24	X 30		5.000	--	--	1	--	--		
43	R7-1D (3)		24	X 30		5.000	--	--	--	1	--		
44	R1-1 (3)		36	X 36		7.460	--	--	1	--	--		
45	R1-1 (3)		36	X 36		7.460	--	--	--	1	--		
46	R6-3 (2S)		30	X 24		5.000	--	--	--	--	--	44	MOUNT BELOW SIGN NO. 44
47	NOT USED												
48	R7-1L (3)		24	X 30		5.000	--	--	--	1	--		
49	R4-7 (3)		36	X 48		12.000	--	--	1	--	--		
50	R4-7 (3)		36	X 48		12.000	--	--	1	--	--		
51	R7-1D (3)		24	X 30		5.000	--	--	--	1	--		

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2'X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
52	R7-1D (3)		24	X 30		5.000	--	--	--	1	--		
53	R6-2R (3)		36	X 48		12.000	--	--	1	--	--		
54	R2-1 (3)	SPEED LIMIT 40	36	X 48		12.000	--	--	1	--	--		
55	R2-1 (3)	SPEED LIMIT 40	36	X 48		12.000	--	--	--	1	--		
56	R6-2R (3)		36	X 48		12.000	--	--	1	--	--		
57	R4-7 (2M)		24	X 30		5.000	--	--	1	--	--		SHEET 4 OF 7
58	R5-1 (2M)		36	X 36		9.000	--	--	1	--	--		
59	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
60	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
61	R5-1A (2M)		42	X 30		8.750	--	--	1	--	--		
62	R2-1 (2M)	SPEED LIMIT 40	30	X 36		7.500	--	--	1	--	--		
63	R6-1L (2M)		54	X 18		6.750	--	--	--	--	--	64	MOUNT BACK OF SIGN NO. 64
64	R1-1 (2M)		36	X 36		7.460	--	--	1	--	--		
65	R6-3 (2S)		30	X 24		5.000	--	--	--	--	--	64	MOUNT BELOW SIGN NO. 64
66	R5-1 (3)		36	X 36		9.000	--	--	--	1	--		
67	R12-1	WEIGHT LIMIT 3 TONS							1	--	1		
68	D12-50										1	67	
69	R7-1D (3)		24	X 30		5.000	--	--	--	1	--		
70	R1-1 (2M)		36	X 36		7.460	--	--	1	--	--		
71	R6-3 (2S)		30	X 24		5.000	--	--	--	--	--	70	MOUNT BELOW SIGN NO. 70
72	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
73	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
74	R6-1L (2M)		54	X 18		6.750	--	--	--	--	--	70	MOUNT ON BACK OF SIGN NO. 70
75	R2-1 (2M)	SPEED LIMIT 40	30	X 36		7.500	--	--	1	--	--		
76	R5-1A (2M)		42	X 30		8.750	--	--	1	--	--		
77	R5-1 (2M)		36	X 36		9.000	--	--	1	--	--		
78	R12-1	WEIGHT LIMIT 3 TONS							1	--	1		
79	R7-1D								1	--	1		
80	R1-1 (3)		36	X 36		7.460	--	--	1	--	--		

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	X	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2'X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
81	R6-1L (3)		54	X	18	6.750	--	--	--	--	--	82	MOUNT BACK OF SIGN NO. 82
82	R1-1 (2M)		36	X	36	7.460	--	--	1	--	--		
83	R6-3 (2S)		30	X	24	5.000	--	--	--	--	--	82	MOUNT BELOW SIGN NO. 82
84	R7-51L								1	--	1		
85	R12-1	WEIGHT LIMIT 3 TONS							1	--	1		
86	D12-50								--	--	1	85	MOUNT BELOW SIGN NO. 85
87	R4-7 (2M)		24	X	30	5.000	--	--	1	--	--		
88	R4-7 (2M)		24	X	30	5.000	--	--	1	--	--		
89	R5-1 (2M)		36	X	36	9.000	--	--	1	--	--		
90	R3-20L (2M)		24	X	36	6.000	--	--	1	--	--		
91	R5-1A (2M)		42	X	30	8.750	--	--	1	--	--		
92	R7-1D (2M)		24	X	30	5.000	--	--	1	--	--		
93	R1-1 (2M)		36	X	36	7.460	--	--	1	--	--		
94	R6-3 (2S)		30	X	24	5.000	--	--	--	--	--	93	MOUNT BELOW SIGN NO. 93
95	R6-1L (2M)		54	X	18	6.750	--	--	--	--	--	93	MOUNT BACK OF SIGN NO. 93
96	R4-7 (2M)		24	X	30	5.000	--	--	1	--	--		
97	R4-7 (2M)		24	X	30	5.000	--	--	1	--	--		
98	R5-1 (2M)		36	X	36	9.000	--	--	1	--	--		
99	R12-1	WEIGHT LIMIT 3 TONS							1	--	1		
100	R7-1D (2M)		24	X	30	5.000	--	--	1	--	--		
101	R7-1D (2M)		24	X	30	5.000	--	--	1	--	--		
102	R3-20LL (2M)		24	X	36	6.000	--	--	1	--	--		
103	R6-2L (3)		36	X	48	12.000	--	--	1	--	--		
104	W3-3 (2M)		36	X	36	--	9.000	--	1	--	--		
105	R5-1A (2M)		42	X	30	8.750	--	--	1	--	--		
106	R5-1 (2M)		36	X	36	9.000	--	--	1	--	--		
107	R12-1	WEIGHT LIMIT 3 TONS							1	--	1		
108	R4-7 (2M)		24	X	30	5.000	--	--	1	--	--		
109	R7-1D								1	--	1		

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2'X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
110	R1-1 (2M)		36	X 36		7.460	--	--	1	--	--		
111	R6-3 (2S)		30	X 24		5.000	--	--	--	--	--	110	MOUNT BELOW SIGN NO. 110
112	R6-1L (2M)		54	X 18		6.750	--	--	--	--	--	110	MOUNT BACK OF SIGN NO. 110
113	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		SHEET 5 OF 7
114	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
115	R3-20L (2M)		24	X 36		6.000	--	--	1	--	--		
116	R5-1A (2M)		42	X 30		8.750	--	--	1	--	--		
117	R5-1A (2M)		42	X 30		8.750	--	--	1	--	--		
118	R3-20LL (2M)		24	X 36		6.000	--	--	1	--	--		
119	R2-1 (2M)	SPEED LIMIT 40	30	X 36		7.500	--	--	1	--	--		
120	D1-65	SPEEDWAY DR NEXT SIGNAL	96	X 30		20.000	--	--	2	--	--		
121	R6-2L (2M)		30	X 36		7.500	--	--	--	--	--		MOUNT ON SIGNAL POLE; SHEET 5A OF 7
122	M1-94H	W SPEEDWAY DR	108	X 18		13.500	--	--	--	--	--		MOUNT ON MAST ARM
123	R1-1F (2M)		36	X 36		--	--	7.460	--	--	--		MOUNT ON SIGNAL POLE
124	R1-1F (2M)		36	X 36		--	--	7.460	--	--	--		MOUNT ON SIGNAL POLE
125	R1-1F (2M)		36	X 36		--	--	7.460	1	--	--		
126	R1-1F (2M)		36	X 36		--	--	7.460	--	--	--		MOUNT ON SIGNAL POLE
127	R5-1 (2M)		36	X 36		9.000	--	--	--	--	--	126	MOUNT ON SIGNAL POLE
128	R6-2L (2M)		30	X 36		7.500	--	--	--	--	--		MOUNT ON SIGNAL POLE
129	R5-1 (2M)		36	X 36		9.000	--	--	1	--	--		
130	R6-3 (2S)		30	X 24		5.000	--	--	--	--	--	123	MOUNT R6-3 ABOVE R1-1F ON SIGNAL POLE
131	R5-1 (2M)		36	X 36		9.000	--	--	--	--	--		MOUNT ON SIGNAL POLE
132	R1-1F (2M)		36	X 36		--	--	7.460	--	--	--	131	MOUNT ON SIGNAL POLE
133	R1-2 (2M)		48	X 42		7.000	--	--	--	--	--		MOUNT ON LIGHT POLE
134	W12-1D (2M)		24	X 24		--	4.000	--	1	--	--		MOUNT HEIGHT 2 FEET
135	R1-1F (2M)		36	X 36		--	--	7.460	1	--	--		

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2'X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
136	R5-1 (2M)		36	X 36		9.000	--	--	1	--	--		
137	R5-1 (2M)		36	X 36		9.000	--	--	--	--	--		MOUNT ON SIGNAL POLE
138	R4-7 (2M)		24	X 30		5.000	--	--	1	--	--		
139	R6-2L (2M)		30	X 36		7.500	--	--	--	--	--		MOUNT ON SIGNAL POLE
140	R4-7 (2M)		24	X 30		5.000	--	--	--	--	--		MOUNT ON SIGNAL POLE
141	R1-1F (2M)		36	X 36		--	--	7.460	--	--	--	140	MOUNT ON SIGNAL POLE
142	M1-94H	W SPEEDWAY DR	108	X 18		13.500	--	--	--	--	--		MOUNT ON MAST ARM
143	R6-3 (2S)		30	X 24		5.000	--	--	--	--	--		MOUNT R6-3 ABOVE R1-1F ON SIGNAL POLE
144	R6-3 (2S)		30	X 24		5.000	--	--	--	--	--		MOUNT R6-3 ABOVE R1-1F ON SIGNAL POLE
145	R1-1F (2M)		36	X 36		--	--	7.460	--	--	--	143	MOUNT ON SIGNAL POLE
146	R1-1F (2M)		36	X 36		--	--	7.460	--	--	--	144	MOUNT ON SIGNAL POLE
147	R4-7 (2M)		24	X 30		5.000	--	--	--	--	--		MOUNT ON SIGNAL POLE
148	R2-1 (2M)	SPEED LIMIT 40	30	X 36		7.500	--	--	1	--	--		SHEET 5 OF 7
149	R2-1 (2M)	SPEED LIMIT 40	30	X 36		7.500	--	--	1	--	--		
150	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
151	R5-1A (2M)		42	X 30		8.750	--	--	1	--	--		
152	R7-1D (2M)		24	X 30		5.000	--	--	--	--	--	151	MOUNT ON BACK OF SIGN NO. 151
153	R3-20LL (2M)		24	X 36		6.000	--	--	1	--	--		
154	R4-4 (2M)		36	X 30		7.500	--	--	1	--	--		
155	R3-20L (2M)		24	X 36		6.000	--	--	1	--	--		
156	W3-3 (2M)		36	X 36		--	9.000	--	1	--	--		
157	W3-3 (2M)		36	X 36		--	9.000	--	1	--	--		
158	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
159	R3-20L (2M)		24	X 36		6.000	--	--	1	--	--		
160	R2-1 (2M)	SPEED LIMIT 40	30	X 36		7.500	--	--	1	--	--		

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2'X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
161	R2-1 (2M)	SPEED LIMIT 40	30	X 36		7.500	--	--	1	--	--		
162	R6-2L (2M)		30	X 36		7.500	--	--	1	--	--		
163	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		SHEET 6 OF 7
164	R5-1A (2M)		42	X 30		8.750	--	--	1	--	--		
165	R3-20LL (2M)		24	X 36		6.000	--	--	1	--	--		
166	R4-7 (2M)		24	X 30		5.000	--	--	1	--	--		
167	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
168	R5-1 (2M)		36	X 36		9.000	--	--	--	--	--	167	MOUNT BACK OF SIGN NO. 167
169	R1-1 (2M)		36	X 36		7.460	--	--	1	--	--		
170	R5-1 (2M)		36	X 36		9.000	--	--	1	--	--		
171	R3-20LL (2M)		24	X 36		6.000	--	--	1	--	--		
172	R1-1 (2M)		36	X 36		7.460	--	--	1	--	--		
173	R6-3 (2S)		30	X 24		5.000	--	--	--	--	--	172	MOUNT BELOW SIGN NO. 172
174	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
175	R3-20L (2M)		24	X 36		6.000	--	--	1	--	--		
176	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
177	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
178	NOT USED												
179	NOT USED												
180	R5-1 (2M)		36	X 36		9.000	--	--	--	--	--	177	MOUNT ON BACK OF SIGN NO. 177
181	R4-7 (2M)		24	X 30		5.000	--	--	1	--	--		
182	R4-7 (2M)		24	X 30		5.000	--	--	1	--	--		
183	R5-1 (2M)		36	X 36		9.000	--	--	1	--	--		
184	W14-2 (2S)		30	X 30		--	6.250	--	1	--	--		
185	R1-1 (2M)		36	X 36		7.460	--	--	1	--	--		
186	R6-3 (2S)		30	X 24		5.000	--	--	--	--	--	185	MOUNT BELOW SIGN NO. 185
187	R7-1D (2M)		24	X 30		5.000	--	--	1	--	--		
188	W3-3 (2M)		36	X 36		--	9.000	--	1	--	--		
189	W3-3 (2M)		36	X 36		--	9.000	--	1	--	--		
190	I2-3	FRANKLIN POPULATION 36,816							2	--	1		

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	X	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2'X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
191	D1-65	COLLEGE AVE 6300 S NEXT SIGNAL							--	--	1	190	MOUNT ON BACK OF SIGN NO. 190
192	R6-2R (2M)		30	X	36	7.500	--	--	1	--	--		
193	R6-2R (2M)		30	X	36	7.500	--	--	1	--	--		
194	R6-2R (2M)		30	X	36	7.500	--	--	1	--	--		
195	R5-1A (2M)		42	X	30	8.750	--	--	1	--	--		
196	R2-1 (2M)	SPEED LIMIT 40	30	X	36	7.500	--	--	--	--	--	194	MOUNT ON BACK OF SIGN NO. 194
197	R3-20L (2M)		24	X	36	6.000	--	--	1	--	--		
198	R3-20LL (2M)		24	X	36	6.000	--	--	1	--	--		
199	R5-1A (2M)		42	X	30	8.750	--	--	1	--	--		
200	R3-20L (2M)		24	X	36	6.000	--	--	1	--	--		
201	R12-1	WEIGHT LIMIT 3 TONS							1	--	1		
202	R7-1D (MOD)								1	--	--		
203	R7-1D (MOD)								1	--	--		
204	D1-65	SPEEDWAY DR NEXT SIGNAL	96	X	30	20.000	--	--	2	--	--		SHEET 5 OF 7
205	R7-1D (2M)		24	X	30	5.000	--	--	1	--	--		
206	JV3-1 (2S)		24	X	81	13.500	--	--	1	--	--		SHEET 3A OF 7
	M3-3		24	x	12								
	M1-4	US 45	24	x	24								
	M1-6	STH 100	24	x	24								
	M6-1R		21	x	21								
207	R3-20L (2M)		24	X	36	6.000	--	--	1	--	--		SHEET 5 OF 7
208	R4-7 (2M)		24	X	30	5.000	--	--	1	--	--		SHEET 6 OF 7
209	D12-50								--	--	1	201	
	UNDISTRIBUTED					--	--	--	4	--	--	--	--
	TOTALS					1196.830	103.000	67.140	153	8	20 *		

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

INTERSECTION OF USH 45 & SPEEDWAY DR
S40-1236

3

STATE FURNISHED
FOR INFORMATION ONLY

SIGNAL BASE NO.	POLES TYPE 9-SPECIAL EACH	POLES TYPE 10 EACH	POLES TYPE 10-SPECIAL EACH	POLES TYPE 12 EACH	MONOTUBE ARMS 15-FT EACH	MONOTUBE ARMS 30-FT EACH	MONOTUBE ARMS 45-FT SPECIAL EACH	MONOTUBE ARMS 55-FT EACH	LUMINAIRE ARMS STEEL,15-FT EACH	VIDEO CAMERA EACH	EVP DETECTOR HEAD EACH
SB1	--	1	--	--	--	1	--	--	1	1	1
SB3	--	1	--	--	1	--	--	--	2	--	--
SB5	--	--	--	1	--	--	--	1	--	--	1
SB7	--	--	1	--	--	--	1	--	1	--	1
SB9	--	1	--	--	1	--	--	--	2	--	--
SB10	1	--	--	--	--	--	1	--	--	--	1
TOTAL	**1**	**3**	**1**	**1**	**2**	**1**	**2**	**1**	**6**	**1**	**4**

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
3	POLES, TYPE 10
1	POLES, TYPE 12
1	POLES,TYPE 10 SPECIAL
1	POLES,TYPE 9 SPECIAL
2	MONOTUBE ARMS, 15 - FT
1	MONOTUBE ARMS, 30 - FT
2	MONOTUBE ARMS, 45 - FT SPECIAL
1	MONOTUBE ARMS, 55 - FT
6	LUMINAIRE ARMS,STEEL, 15-FT
4	EVP DETECTOR HEADS
1	VIDEO CAMERA

REMOVING CONCRETE BASES

CATEGORY	SIGNAL BASE NO.	* 204.0195 REMOVING CONCRETE BASES EACH
0010	CB1	1
	SB1	1
	SB2	1
	SB3	1
	SB4	1
	SB5	1
	SB6	1
	SB7	1
	SB8	1
	SB9	1
	SB10	1
	SB11	1
	SB12	1
	SB13	1
	SB14	1
	SB15	1
	SB16	1
	SB17	1
	SB18	1
	SB19	1
	SB20	1
	TOTAL 0010	21

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVING PULL BOXES

CATEGORY	PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
0010	PB1	1
	PB2	1
	PB3	1
	PB4	1
	PB5	1
	PB6	1
	PB7	1
	PB8	1
	PB9	1
	PB10	1
	PB11	1
	PB12	1
	PB13	1
	PB14	1
	PB15	1
	PB16	1
	PB17	1
	PB18	1
	PB19	1
	TOTAL 0010	19

3

3

LAMP, BALLAST, LED, SWITCH DISPOSAL

CATEGORY	LOCATION	659.5000.S.01 LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
0010	MERCURY SWITCH	1
	PEDESTRIAN SIGNAL - 16INCH	2
	TRAFFIC SIGNAL- THREE SECTION	11
	TRAFFIC SIGNAL- FIVE SECTION	4
	PEDESTRIAN PUSH BUTTONS	2
	LUMINAIRES,UTILITY,LED C	14
	TOTAL 0010	34

LAMP,BALLAST,LED,SWITCH DISPOSAL (FOR INFORMATION ONLY)

SIGNAL BASE NO.	MERCURY SWITCH EACH	PEDESTRIAN SIGNAL - 16INCH EACH	TRAFFIC SIGNAL- THREE SECTION EACH	TRAFFIC SIGNAL- FIVE SECTION EACH	PEDESTRIAN PUSH BUTTONS EACH	LUMINAIRES, UTILITY,LED C EACH
CB1	1	--	--	--	--	--
SB1	--	--	2	--	--	--
SB2	--	--	1	--	--	1
SB3	--	--	1	--	--	--
SB4	--	--	--	1	--	--
SB5	--	--	1	--	--	--
SB6	--	--	--	--	--	2
SB7	--	--	--	--	--	2
SB8	--	--	--	--	--	2
SB9	--	--	1	--	--	--
SB10	--	--	1	1	--	--
SB11	--	--	--	1	--	1
SB12	--	--	1	--	--	--
SB13	--	--	1	--	--	--
SB14	--	--	1	1	--	--
SB15	--	--	--	--	--	2
SB16	--	--	--	--	--	2
SB17	--	--	--	--	--	2
SB18	--	--	1	--	--	--
SB19	--	1	--	--	1	--
SB20	--	1	--	--	1	--
TOTAL 0010	1	2	11	4	2	14

REMOVING TRAFFIC SIGNAL

CATEGORY	LOCATION	204.9060.S.02 REMOVING TRAFFIC SIGNALS USH 45 AND SPEEDWAY DR EACH	204.9060.S.03 REMOVING LOOP DETECTOR WIRE AND LEAD IN CABLE, USH 45 AND SPEEDWAY DR EACH
0010	USH 45 & SPEEDWAY DR	1	1
	TOTAL 0010	1	1

TEMPORARY SIGNALS

CATEGORY	LOCATION	661.0201.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (USH 45 AND SPEEDWAY DR) EACH	661.0300 GENERATORS DAY	SPV.0060.15 SPECIAL (TEMPORARY INFRARED EVP SYSTEM FOR THE INTERSECTION OF USH 45 AND SPEEDWAY DR) EACH
0010	USH 45 & SPEEDWAY DR	1	1	1
	TOTAL 0010	1	1	1

INTERSECTION OF USH 45 & SPEEDWAY DR
S40-1236

CONDUITS

CATEGORY	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615 CONDUIT SPECIAL 3-INCH LF
0010	CB1	PB1	--	27	--
	PB1	PB5	--	46	--
	PB1	PB2	--	62	--
	PB2	PB3	165	--	--
	PB3	PB4	131	--	--
	PB2	PB6	--	134	--
	PB6	PB7	--	34	--
	PB7	PB8	--	94	--
	PB8	PB9	--	126	--
	PB9	PB10	--	157	--
	PB10	PB11	--	60	--
	PB11	PB12	187	--	--
	PB12	PB13	130	--	--
	PB11	PB14	--	101	--
	PB14	PB15	--	42	--
	PB15	PB16	--	102	--
	PB16	PB17	--	155	--
	PB17	PB18	11	--	--
	PB17	PB19	--	--	150
	PB17	PB20	--	134	--
	PB20	CB1	--	31	--
	PB5	SB1	--	10	--
	PB5	SB2	12	--	--
	PB7	SB3	--	19	--
	PB8	SB4	37	--	--
	PB9	SB5	--	18	--
	PB9	SB6	13	--	--
	PB10	SB7	--	8	--
	PB11	SB8	9	--	--
	PB15	SB9	--	10	--
	PB16	SB10	--	13	--
	PB18	SB11	26	--	--
	PB2	SB12	12	--	--
		TOTALS 0010	733	1,383	150

3

3

PULL BOXES

CATEGORY	PULL BOX NO.	ROADWAY	STATION	OFFSET	653.0135 PULL BOXES STEEL 24X36-INCH EACH	* 653.0140 PULL BOXES STEEL 24X42-INCH EACH
0010	PB1	USH 45	952+62.8	98.1 LT	--	1
	PB2	USH45	952+87.7	78.6 LT	--	1
	PB3	USH 45	954+52.9	73.1 LT	1	--
	PB4	USH 45	955+81.5	65.5 LT	1	--
	PB5	USH 45	952+38.5	58.8 LT	--	1
	PB6	USH 45	952+83.7	10.5 LT	--	1
	PB7	USH 45	952+84.0	10.5 RT	--	1
	PB8	USH 45	952+82.9	61.2 RT	--	1
	PB9	USH 45	952+23.1	81.5 RT	--	1
	PB10	USH 45	951+45.7	81.2 RT	--	1
	PB11	USH 45	951+24.1	61.7 RT	--	1
	PB12	USH 45	949+42.5	60.4 RT	1	--
	PB13	USH 45	948+15.7	61.0 RT	1	--
	PB14	USH 45	951+24.8	12.1 RT	--	1
	PB15	USH 45	951+25.0	11.0 LT	--	1
	PB16	USH 45	951+24.6	62.1 LT	--	1
	PB17	USH 45	951+82.0	113.7 LT	--	1
	PB18	USH 45	951.80.5	103.2 LT	1	--
	PB19	SPEEDWAY DR	547+48.2	25.0 RT	1	--
	PB20	USH 45	952+52.4	113.7 LT	--	1
				TOTAL 0010	6	14

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LOOP DETECTORS

CATEGORY	LOOP NO.	HOME PB NO,	ROADWAY	STATION	OFFSET	SIZE	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
0010	11	PB15	USH 45	951+09.8	0.0	6X20	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	69	240	198
	12	PB15	USH 45	951+37.2	0.0	6X20	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	63	240	186
	21	PB4	USH 45	955+81.5	65.5 LT	6X10	5	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	363	208
	22	PB4	USH 45	955+82.1	45.9 LT	6X10	5	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	363	232
	23	PB4	USH 45	955+83.0	19.7 LT	6X10	5	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	77	363	258
	24	PB3	USH 45	954+52.6	32.6 LT	6X30	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	212	276
	41	PB19	SPEEDWAY DR	547+46.2	8.5 RT	6X6	4	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	38	235	132
	42	PB18	SPEEDWAY DR	548+97.0	13.0 RT	6X20	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	65	113	190
	43	PB18	SPEEDWAY DR	549+24.5	17.0 RT	6X20	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	65	113	190
	51	PB6	USH 45	952+81.2	0.0	6X20	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	60	116	180
	52	PB6	USH 45	952+53.2	0.0	6X20	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	65	116	190
	61	PB13	USH 45	948+16.7	45.5 RT	6X10	5	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	46	672	196
	62	PB13	USH 45	948+17.4	33.6 RT	6X10	5	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	60	672	224
	63	PB13	USH 45	948+17.7	23.0 RT	6X10	5	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	672	244
	64	PB12	USH 45	949+41.6	33.6 RT	6X30	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	542	248
	71	PB18	SPEEDWAY DR	548+98.4	2.4 RT	6X20	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	75	113	210
	72	PB18	SPEEDWAY DR	549+26.1	6.1 RT	6X20	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	75	113	210
								TOTAL 0010	1,057	5,258	3,572

INTERSECTION OF USH 45 & SPEEDWAY DR
S40-1236

3

CONCRETE BASES

CATEGORY	SIGNAL BASE NO.	STATION	OFFSET	654.0101 CONCRETE BASES TYPE 1 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH	656.0201.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (USH 45 AND SPEEDWAY DR) EACH
0010	CB1	952+60.0	106.2 LT	--	--	--	--	--	1	1
	SB1	952+39.5	68+7 LT	--	--	1	--	--	--	--
	SB2	952+49.6	62.1 LT	1	--	--	--	--	--	--
	SB3	952+62.3	10.5 RT	--	--	1	--	--	--	--
	SB4	952+46.8	62.1 RT	1	--	--	--	--	--	--
	SB5	952+37.8	71.8 RT	--	--	--	1	--	--	--
	SB6	952+29.3	70.7 RT	1	--	--	--	--	--	--
	SB7	951+41.2	74.8 RT	--	--	--	--	1	--	--
	SB8	951+31.4	65.1 RT	1	--	--	--	--	--	--
	SB9	951+34.3	10.0 LT	--	--	1	--	--	--	--
	SB10	951+39.0	64.5 LT	--	--	--	--	1	--	--
	SB11	951+66.4	82.0 LT	1	--	--	--	--	--	--
	SB12	952+77.3	84.7 LT	--	1	--	--	--	--	--
			TOTAL 0010	5	1	3	1	2	1	1

ELECTRIC WIRE TRAFFIC SIGNAL

CATEGORY	FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
0010	CB1	SB1	113
	SB1	SB2	43
	SB2	SB3	274
	SB3	SB4	145
	SB4	SB5	158
	SB5	SB6	51
	SB6	SB7	159
	SB7	SB8	83
	SB8	SB9	111
	SB9	SB10	180
	SB10	SB11	127
	SB11	CB1	177
	PB1	CB1	39
	PB2	CB1	83
	PB5	SB1	42
	PB6	SB3	71
	PB7	SB3	53
	PB8	SB4	69
	PB9	SB5	50
	PB10	SB7	39
	PB11	SB8	39
	PB14	SB9	59
	PB15	SB9	40
	PB16	SB10	43
	PB17	SB11	63
	PB18	SB11	71
	PB20	CB1	41
		TOTAL 0010	2,432

EVP DETECTOR CABLE

CATEGORY	FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
0010	CB1	SB10(HEAD 'A')	207
	CB1	SB5 (HEAD'B')	287
	CB1	SB7(HEAD 'C')	367
	CB1	SB1(HEAD 'D')	102
		TOTAL 0010	963

TRAFFIC SIGNAL CABLE

CATEGORY	FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF
0010	CB1	SB1	--	--	102	--
	SB1	HEAD 17	50	--		--
	SB1	HEAD 30	19	--	--	--
	CB1	SB2	--	--	102	--
	SB2	HEAD 6	--	23	--	--
	SB2	HEAD 8	19	--	--	--
	SB2	HEAD 23	19	--	--	--
	CB1	SB3	--	--	227	--
	SB3	HEAD 7	--	41	--	--
	SB3	HEAD 12	--	23	--	--
	CB1	SB4	--	--	309	--
	SB4	HEAD 24	19	--	--	--
	CB1	SB5	--	--	358	--
	SB5	HEAD 2	75	--	--	--
	SB5	HEAD 3	65	--	--	--
	SB5	HEAD 4	52	--	--	--
	CB1	SB6	--	--	353	--
	SB6	HEAD 15	23		--	--
	SB6	HEAD 21	--	19	--	--
	SB6	HEAD 25	19	--	--	--
	CB1	SB7	--	--	440	--
	SB7	HEAD 19	55	--	--	--
	SB7	HEAD 20	19	--	--	--
	SB7	HEAD 22	--	71	--	--
	SB7	HEAD 26	19	--	--	--
	CB1	SB8	--	--	393	--
	SB8	HEAD 1	19	--	--	--
	SB8	HEAD 13	--	23	--	--
	SB8	HEAD 27	19	--	--	--
	CB1	SB9	--	--	293	--
	SB9	HEAD 5	--	23	--	--
	SB9	HEAD 14	--	41	--	--
	CB1	SB10	--	--	232	--
	SB10	HEAD 9	70	--	--	--
	SB10	HEAD 10	59	--	--	--
	SB10	HEAD 11	48	--	--	--
	SB10	HEAD 28	19	--	--	--
	CB1	SB11	--	--	176	--
	SB11	HEAD 16	19	--	--	--
	SB11	HEAD 18	19	--	--	--
	SB11	HEAD 29	19	--	--	--
	CB1	SB1	--	--	--	102
	SB1	SB12	--	--	--	157
	SB12	SB3	--	--	--	179
	CB1	SB9	--	--	--	281
	SB9	SB7	--	--	--	193
		TOTAL 0010	744	264	2,985	912

INTERSECTION OF USH 45 & SPEEDWAY DR
S40-1236

3

ELECTRICAL WIRE LIGHTING

CATEGORY	FROM	TO	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
0010	SB1	LUMIN	144
	SB3	LUMIN (2)	288
	SB7	LUMIN	144
	SB9	LUMIN (2)	288
	SB12	LUMIN	117
		TOTAL 0010	982

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

TRAFFIC SIGNAL EQUIPMENT

CATEGORY	SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0322 POLE TYPE 5 - ALUMINIUM EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
0010	SB1	--	--	--	--	--	--	1	1
	SB2	1	--	--	1	--	--	--	1
	SB3	--	--	--	--	--	--	2	--
	SB4	1	--	--	--	1	--	--	1
	SB6	1	--	--	1	--	--	--	1
	SB7	--	--	--	--	--	--	1	1
	SB8	1	--	--	1	--	--	--	1
	SB9	--	--	--	--	--	--	2	--
	SB10	--	--	--	--	--	--	--	1
	SB11	1	--	1	--	--	--	--	1
	SB12	--	1	--	--	--	1	1	--
	TOTAL 0010	5	1	1	3	1	1	7	8

INSTALL POLES,ARMS, LUMINAIRES (STATE FURNISHED)

CATEGORY	SIGNAL BASE NO.	SPV.0060.19 SPECIAL (INSTALL POLES TYPE 9 SPECIAL) EACH	SPV.0060.20 SPECIAL (INSTALL POLES TYPE 10) EACH	SPV.0060.21 SPECIAL (INSTALL POLES TYPE 10 SPECIAL) EACH	SPV.0060.22 SPECIAL (INSTALL MONOTUBE ARMS - 15 FT) EACH	SPV.0060.23 SPECIAL (INSTALL MONOTUBE ARMS - 30FT) EACH	SPV.0060.24 SPECIAL (INSTALL MONOTUBE ARMS - 45FT SPECIAL) EACH	SPV.0060.25 SPECIAL (INSTALL LUMINAIRE ARMS 15FT STEEL) EACH	SPV.0060.29 SPECIAL (INSTALL MONOTUBE ARMS - 55FT) EACH	SPV.0060.33 SPECIAL (INSTALL POLES TYPE 12) EACH
0010	SB1	--	1	--	--	1	--	1	--	--
	SB3	--	1	--	1	--	--	2	--	--
	SB5	--	--	--	--	--	--	--	1	1
	SB7	--	--	1	--	--	1	1	--	--
	SB9	--	1	--	1	--	--	2	--	--
	SB10	1	--	--	--	--	1	--	--	--
	TOTAL 0010	1	3	1	2	1	2	6	1	1

SIGNAL MOUNTING HARDWARE

CATEGORY	LOCATION	658.5070.01 SIGNAL MOUNTING HARDWARE (USH 45 AND SPEEDWAY DR) EACH
0010	USH 45 & SPEEDWAY DR	1
	TOTAL 0010	1

INTERSECTION OF USH 45 & SPEEDWAY DR
S40-1236

TRAFFIC SIGNAL FACES

CATEGORY	SIGNAL BASE NO.	SIGNAL HEAD NO.	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH
0010	SB1	17	--	1	--
		30	1	--	--
	SB2	6	--	--	1
		8	--	1	--
		23	1	--	--
	SB3	7	--	--	1
		12	--	--	1
	SB4	24	1	--	--
	SB5	2	--	1	--
		3	--	1	--
		4	--	1	--
	SB6	15	--	1	--
		21	--	--	1
		25	1	--	--
	SB7	19	--	1	--
		20	--	1	--
		22	--	--	1
		26	1	--	--
	SB8	1	--	1	--
		13	--	--	1
		27	1	--	--
	SB9	5	--	--	1
		14	--	--	1
	SB10	9	--	1	--
		10	--	1	--
		11	--	1	--
		28	1	--	--
	SB11	16	--	1	--
		18	--	1	--
		29	1	--	--
		TOTAL 0010	8	14	8

TRANSPORT AND INSTAL STATE FURNISHED VIDEO DETECTION SYSTEM

CATEGORY	LOCATION	SPV.0060.30 SPECIAL (TRANSPORT AND INSTALL STATE FURNISHED VIDEO DETECTION SYSTEM) EACH
0010	USH 45 & SPEEDWAY DR	1
	TOTAL 0010	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

CATEGORY	LOCATION	SPV.0060.16 SPECIAL (TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS) EACH
0010	USH 45 & SPEEDWAY DR	1
	TOTAL 0010	1

TRANSPORT AND INSTALLATION OF TRAFFIC SIGNAL CABINET

CATEGORY	LOCATION	SPV.0060.17 SPECIAL (TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET) EACH
0010	USH 45 & SPEEDWAY DR	1
	TOTAL 0010	1

TRANSPORT AND INSTALL STATE FURNISHED EVP DETECTOR HEAD INSTALLATION

CATEGORY	LOCATION	SPV.0060.18 SPECIAL (TRANSPORT AND INSTALL STATE FURNISHED EVP DETECTOR HEADS) EACH
0010	USH 45 & SPEEDWAY DR	1
	TOTAL 0010	1

3

STATE FURNISHED MATERIALS SUMMARY - INTERCONNECT

	DESCRIPTION
1 EA	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT , 200 LF
1 EA	ETHERNET SWITCH
2,491 LF	FIBER OPTIC CABLE 72-CT

INTERCONNECT BETWEEN S40-1236 & S40-1446

3

INTERCONNECT ITEMS

CATEGORY	FROM	TO	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	671.0132 CONDUIT HDPE 3-DUCT 2-INCH LF	671.0232 CONDUIT HDPE DIRECTIONAL BORE 3-DUCT 2-INCH LF	678.0072 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 72-CT LF	SPV.0090.05 FIBER OPTIC WARNING TAPE LF
0010	CB1	CV1	29	23	--	--	--
	CV1	ICPB1	28	22	--	122	122
	ICPB1	ICPB2	386	380	--	410	410
	ICPB2	ICPB3	432	426	--	456	456
	ICPB3	ICPB4	16	10	--	40	40
	ICPB4	ICPB5	133	127	--	157	157
	ICPB5	CV2	113	107	--	137	137
	CV2	ICPB6	304	298	--	398	398
	ICPB6	ICPB7	75	69	--	99	99
	ICPB7	ICPB8	143	137	--	167	167
	ICPB8	ICPB9	370	364	--	394	394
	ICPB9	ICPB10	57	--	51	111	111
			2,086	1,963	51	2,491	2,491

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

INTERCONNECT PULL BOXES AND COMMUNICATION VAULTS

CATEGORY	PULL BOX / COMMUNICATION VAULT NO.	STATION	LOCATION	* 653.0140 PULL BOXES STEEL 24X42-INCH EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH	678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
0010	CV1	952+74.8	87.1 LT	--	1	1	4
	ICPB1	952+93.6	76.3 LT	1	--	--	--
	ICPB2	956+60.6	61.5 LT	1	--	--	--
	ICPB3	960+76.0	62.2 LT	1	--	--	--
	ICPB4	961+27.4	61.1 LT	1	--	--	--
	ICPB5	962+50.7	61.6 LT	1	--	--	--
	CV2	963+56.6	60.4 LT	--	1	--	--
	ICPB6	966+48.0	60.1 LT	1	--	--	--
	ICPB7	967+18.0	59.4 LT	1	--	--	--
	ICPB8	968+58.7	60.3 LT	1	--	--	--
	ICPB9	972+24.9	61.4 LT	1	--	--	--
			TOTAL 0010	8	2	1	4

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

COMMUNICATION EQUIPMENT

CATEGORY	LOCATION	678.0600 INSTALL ETHERNET SWITCHES EACH	SPV.0060.31 SPECIAL (INSTALL FIBER OPTIC COMMUNICATIONS IN CABINET USH 45 & SPEEDWAY DR) EACH	FOR INFORMATION ONLY CAT-5E CABLE 5 FT EACH	FOR INFORMATION ONLY ST-ST SINGLE MODE FIBER JUMPER 4-FEET EACH
0010	USH 45 & SPEEDWAY DR	1	1	3	2
	TOTAL 0010	1	1	3	2

FIELD SYSTEM INTEGRATOR

CATEGORY	LOCATION	670.0101 FIELD SYSTEM INTEGRATOR EACH	670.0201 ITS DOCUMENTATION EACH	678.0501 COMMUNICATION SYSTEM TESTING EACH
0010	2040-14-70	1	1	1
	TOTAL 0010	1	1	1

WATER MAIN ITEMS

CATEGORY	ROADWAY	STRUCT ID	STATION	OFFSET	PROPOSED STATION	PROPOSED OFFSET	SPV.0060.02 RELOCATE HYDRANT ASSEMBLY EACH	SPV.0060.07 ADJUST HYDRANT ASSEMBLY EACH
0040	USH 45	FR-HYD-01	921+04	96'LT	921+07	105'LT	1	
CITY OF FRANKLIN		FR-HYD-02	923+65	97'RT				1
		FR-HYD-03	924+05	55'LT	923+80	92'LT	1	
		FR-HYD-04	927+63	59'LT	927+61	92'LT	1	
		FR-HYD-05	930+18	60'LT				
		FR-HYD-06	934+00	90'RT	934+12	89'RT	1	
		FR-HYD-07	934+23	60'LT				
		FR-HYD-08	937+43	60'LT				1
		FR-HYD-09	940+53	60'LT	940+65	60'LT	1	
		FR-HYD-10	944+59	60'LT				
		FR-HYD-11	946+27	63'RT				
		FR-HYD-12	950+27	62'RT				1
		FR-HYD-13	951+80	111'LT				
		FR-HYD-14	954+28	62'RT				
		FR-HYD-15	958+20	65'RT	958+19	60'RT	1	
		FR-HYD-16	962+31	61'RT				1
		FR-HYD-17	963+51	60'LT				
		FR-HYD-18	966+41	61'LT				
		FR-HYD-19	966+60	59'RT				
		FR-HYD-20	926+61	86'RT				
		FR-HYD-21	929+91	86'RT				
PROJECT TOTAL							6	4

WATER MAIN ITEMS

CATEGORY	ROADWAY	RELO ID	START STA	OFFSET	END STA	OFFSET	SPV.0090.01 Insulate Water Main LF	SPV.0090.02 8-Inch PVC Water Main LF	SPV.0090.03 20-Inch Ductile Iron Water Main LF	SPV.0090.04 6-Inch PVC Hydrant Lead LF	SPV.0060.12 Construction Staking Water Main EA
0040	USH 45	FR1	921+04	95'LT	921+07	105'LT				10	1
CITY OF FRANKLIN		FR2	923+69	4'RT	923+69	17'RT	18	21			1
		FR3	923+79	72'LT	923+80	92'LT				20	1
		FR4	927+61	62'LT	927+61	92'LT				30	1
		FR5	933+91	2'RT	933+91	18'LT	46	21			1
		FR6	934+12	89'RT	933+95	90'RT				17	1
		FR7	940+65	60'LT	940+53	60'LT	12			12	1
		FR8	958+18	66'RT	958+19	60'RT				6	1
		FR9	945+55	78'RT	945+67	49'LT	72	9	49		1
PROJECT TOTAL							148	51	49	95	9

WATER MAIN ITEMS

CATEGORY	ROADWAY	STRUCT ID	STATION	OFFSET	PROPOSED STATION	PROPOSED OFFSET	SPV.0060.06 ADJUST HYDRANT VALVE BOX EACH	SPV.0060.03 RELOCATE & REPLACE HYDRANT VALVE & BOX EACH
0040	USH 45	FR-HVB-01	921+04	95'LT			1	
CITY OF FRANKLIN		FR-HVB-02	923+67	97'RT			1	
		FR-HVB-03	924+06	69'LT	923+79	75'LT		1
		FR-HVB-04	927+61	60'LT	927+61	65'LT		1
		FR-HVB-05	930+16	60'LT			1	
		FR-HVB-06	933+95	90'RT	934+09	90'RT		1
		FR-HVB-07	934+21	60'LT			1	
		FR-HVB-08	937+41	60'LT			1	
		FR-HVB-09	940+52	60'LT			1	
		FR-HVB-10	944+57	61'LT			1	
		FR-HVB-11	946+25	63'RT			1	
		FR-HVB-12	950+26	60'RT			1	
		FR-HVB-13	951+81	72'LT			1	
		FR-HVB-14	954+26	61'RT			1	
		FR-HVB-15	958+18	66'RT			1	
		FR-HVB-16	962+31	67'RT			1	
		FR-HVB-17	963+49	61'LT			1	
		FR-HVB-18	966+41	67'LT			1	
		FR-HVB-19	966+61	65'RT			1	
		FR-HVB-20	926+64	86'RT			1	
		FR-HVB-21	929+94	86'RT			1	
PROJECT TOTAL							18	3

SANITARY SEWER ITEMS

CATEGORY	ROADWAY	STRUCT ID	STATION	OFFSET	SPV.0060.08 Manhole Adjustment EACH	SPV.0060.09 Replace Manhole Casting Each	SPV.0060.01 Remove Sanitary Sewer Manhole Each
0040	USH 45	FR-MH-01	920+83	93'LT	1		
CITY OF FRANKLIN		FR-MH-02	922+86	50'LT	1		
		FR-MH-03	923+53	75'RT	1		
		FR-MH-04	923+62	66'LT	1		
		FR-MH-05	926+30	58'LT		1	
		FR-MH-06	926+47	73'RT	1		
		FR-MH-07	929+23	74'RT	1		
		FR-MH-08	930+21	49'LT	1		
		FR-MH-09	931+84	74'RT	1		
		FR-MH-10	932+62	44'LT		1	
		FR-MH-11	935+47	44'LT		1	
		FR-MH-12	938+27	46'LT		1	
		FR-MH-13	940+20	55'LT		1	
		FR-MH-14	944+27	42'LT		1	
		FR-MH-15	947+20	54'LT			1
		FR-MH-16	962+77	83'RT	1		
		FR-MH-17	963+00	50'LT	1		
		FR-MH-18	965+45	61'LT		1	
		FR-MH-19	966+97	80'RT		1	
		FR-MH-20	967+39	80'RT		1	
		FR-MH-21	967+93	61'LT		1	
PROJECT TOTAL					10	10	1

3

WATER MAIN ITEMS

CATEGORY	ROADWAY	STRUCT ID	STATION	OFFSET	PROPOSED STATION	PROPOSED OFFSET	SPV.0060.05 ADJUST VALVE BOX EACH	SPV.0060.04 RELOCATE & REPLACE 8" MAIN VALVE & BOX EACH
0040	USH 45	FR-VB-01	920+93	100'LT			1	
CITY OF FRANKLIN		FR-VB-02	920+96	93'LT			1	
		FR-VB-03	923+66	71'LT			1	
		FR-VB-04	923+69	90'RT			1	
		FR-VB-05	923+72	71'LT			1	
		FR-VB-06	923+72	85'RT			1	
		FR-VB-07	929+00	65'LT			1	
		FR-VB-08	933+57	64'LT			1	
		FR-VB-09	933+90	52'LT			1	
		FR-VB-10	933+90	68'RT			1	
		FR-VB-11	933+95	61'LT			1	
		FR-VB-12	940+01	52'LT			1	
		FR-VB-13	940+04	62'LT			1	
		FR-VB-14	940+30	66'LT			1	
		FR-VB-15	945+58	62'LT			1	
		FR-VB-16	945+56	71'RT	945+56	74'RT		1
		FR-VB-17	945+63	56'RT			1	
		FR-VB-18	945+70	63'LT			1	
		FR-VB-19	946+07	64'LT			1	
		FR-VB-20	951+50	62'RT			1	
		FR-VB-21	951+76	71'LT			1	
		FR-VB-22	953+26	58'RT			1	
		FR-VB-23	962+43	68'RT			1	
		FR-VB-24	962+70	68'LT			1	
		FR-VB-25	962+90	74'RT			1	
		FR-VB-26	962+97	38'RT			1	
		FR-VB-27	963+09	65'LT			1	
		FR-VB-28	963+10	61'LT			1	
		FR-VB-29	963+15	65'LT				
		FR-VB-30	967+01	64'RT			1	
		FR-VB-31	967+07	83'RT			1	
		FR-VB-32	968+51	67'LT			1	
		FR-VB-33	926+56	88'RT			1	
PROJECT TOTAL							31	1

FILE NAME : C:\PW_WORKDIR\PW_IE\MLH2\D0627077\030201-MQ.DWG
LAYOUT NAME - 03
PLOT DATE : 5/30/2023 7:16 AM PLOT BY : HEIN, MIKE PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

2040-14-20

LOVER'S LANE, CITY OF FRANKLIN

ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE

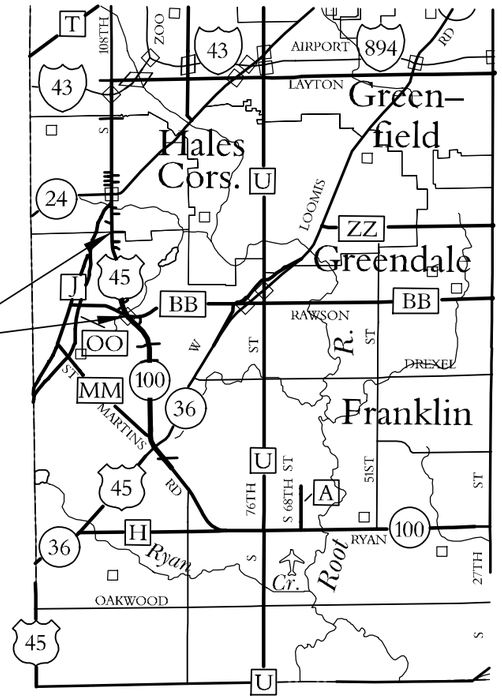
USH 45/STH 100

MILWAUKEE COUNTY



R-21-E

T-6-N



T-5-N

T-5-N

R-21-E

PROJECT LOCATION

N

LAYOUT

SCALE 0 1 MI.

NOTES:

POINT NUMBERS SHOWN AS (TIE268) ARE NON-MONUMENTED POINTS THAT ARE USED TO SHOW DISTANCES ALONG SECTION OR REFERENCE LINES TO THE COGO ENVELOPE.

POINT NUMBERS SHOWN AS (TLE268) ARE NON-MONUMENTED POINTS WHICH DELINEATE THE LIMITS OF TEMPORARY LIMITED EASEMENTS.

POINT NUMBERS SHOWN AS (PRW268) ARE MONUMENTED POINTS WHICH DELINEATE LIMITS OF THE RIGHT-OF-WAY LINES.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT USING THE WISCORS NETWORK. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. ALL DISTANCES ARE GROUND.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO CONSTRUCTION BY WISDOT SE REGION SURVEY.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

ALL DISTANCES SHOWN FROM BUILDINGS TO R/W LINE ARE APPROXIMATE.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A **PERMANENT LIMITED EASEMENT** (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

CONVENTIONAL SYMBOLS

SECTION LINE	SECTION CORNER SYMBOL	R/W MONUMENT (TO BE SET)	
QUARTER LINE		NON-MONUMENTED R/W POINT	
SIXTEENTH LINE			
NEW REFERENCE LINE	SECTION CORNER MONUMENT	FOUND IRON PIN (1-INCH UNLESS NOTED)	IP
NEW R/W LINE	GEODETIC SURVEY MONUMENT		
EXISTING R/W OR HE LINE			
PROPERTY LINE	SIXTEENTH CORNER MONUMENT		
LOT, TIE & OTHER MINOR LINES	SIGN	OFF-PREMISE SIGN	
SLOPE INTERCEPT			
CORPORATE LIMITS			
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) (TYPE)			
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)			
TEMPORARY LIMITED EASEMENT AREA			
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)			
TRANSMISSION STRUCTURES			
BUILDING	TO BE REMOVED		
BRIDGE	CULVERT		

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION	
NO ACCESS (BY STATUTORY AUTHORITY)	
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)	
NO ACCESS (NEW HIGHWAY)	
PARCEL NUMBER 25	UTILITY NUMBER 40
PARALLEL OFFSETS	

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REEL	R.
ACCESS RIGHTS	AR	REFERENCE LINE	R/L
ACRES	AC.	RELEASE OF RIGHTS	ROR
AND OTHERS	ET.AL.	REMAINING	REM.
CENTERLINE	C/L	RIGHT-OF-WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC.
CORNER	COR.	STATION	STA.
DOCUMENT	DOC.	TEMPORARY LIMITED EASEMENT	TLE
EASEMENT	ESMT.	VOLUME	V.
HIGHWAY EASEMENT	H.E.		
IMAGE	I.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20 - 4.15
SHEET 2 OF 2
AMENDMENT NO:

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.15

PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 8,
CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 LOVER'S LANE, CITY OF FRANKLIN
ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUB-SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

POINT #	STATION	OFFSET
PRW424	919+74.16	-84.00'
PRW425	5+03.84 NW	60.00'
PRW426	1+71.05 NW	60.00'
PRW427	60+40.14 RA	-60.00'
PRW428	62+41.02 RA	-60.00'
PRW429	915+01.69	-84.00'
RW3224	920+29.31	106.61'
TIE47	920+82.04	-109.16'
TIE50	920+56.77	-0.00'

CURVE PRW S110
L = 290.71'
R = 413.89'
LCH = 284.78'
LCB = S 55° 29' 22" W

CURVE PRW S111
L = 325.23'
R = 1643.57'
LCH = 324.70'
LCB = S 60° 15' 51" E

CURVE PRW S112
L = 491.50'
R = 2169.00'
LCH = 490.45'
LCB = N 22° 54' 00" W

P.I. = 918+35.32
Y = 254,608.49
X = 569,308.80
DELTA = 44° 56' 31" (RT)
D = 2° 44' 53"
T = 862.40'
L = 1,635.44'
R = 2,085.00'
P.C. = 909+72.92
P.T. = 926+08.36
DB = N 43°55'20" W
DA = N 1°01'11" E

ALIGNMENT SUB-CURVE
STA. 912+97.29 TO STA. 920+56.77
L = 759.48'
R = 2085.00'
LCH = 755.29'
LCB = N 24°34'24" W

P.I. = 3+44.86 NW
Y = 254,832.66
X = 569,132.36
DELTA = 40° 10' 27" (RT)
D = 12° 05' 26"
T = 173.30'
L = 332.28'
R = 473.89'
P.C. = 1+71.56 NW
P.T. = 5+03.84 NW

P.I. = 58+73.08 RA
Y = 254,694.46
X = 568,902.39

P.I. = 64+77.44 RA
Y = 254,344.32
X = 569,394.99
DELTA = 15° 48' 07" (LT)
D = 3° 21' 48"
T = 236.42'
L = 469.84'
R = 1,703.57'
P.C. = 62+41.02 RA
P.C.C. = 67+10.86 RA
DA = S 70°23'50" E

P.I. = 68+27.11 RA
Y = 254,226.00
X = 569,727.23
DELTA = 7° 01' 32" (LT)
D = 3° 01' 31"
T = 116.26'
L = 232.22'
R = 1,893.89'
P.C.C. = 67+10.86 RA
P.T. = 69+43.08 RA
DB = S 70°23'50" E
DA = S 77°25'22" E

ALIGNMENT SUB-CURVE
PCC 67+10.86RA TO STA. 67+98.64 RA
L = 87.78'
R = 1893.89'
LCH = 87.78'
LCB = S 71°43'30" E

ALIGNMENT SUB-CURVE
STA. 67+98.64 RA TO PT 69+43.08 RA
L = 144.44'
R = 1893.89'
LCH = 144.40'
LCB = S 75°14'16" E

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO CONSTRUCTION BY WISDOT SE REGION SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT USING THE WISCORS NETWORK. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. ALL DISTANCES ARE GROUND.

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1 (18)/ 2040-3-21	1968	VARIES
RAWSON AVE.	F059-1 (4) S035(9)	1958 1958	VARIES VARIES

EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45 ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1)

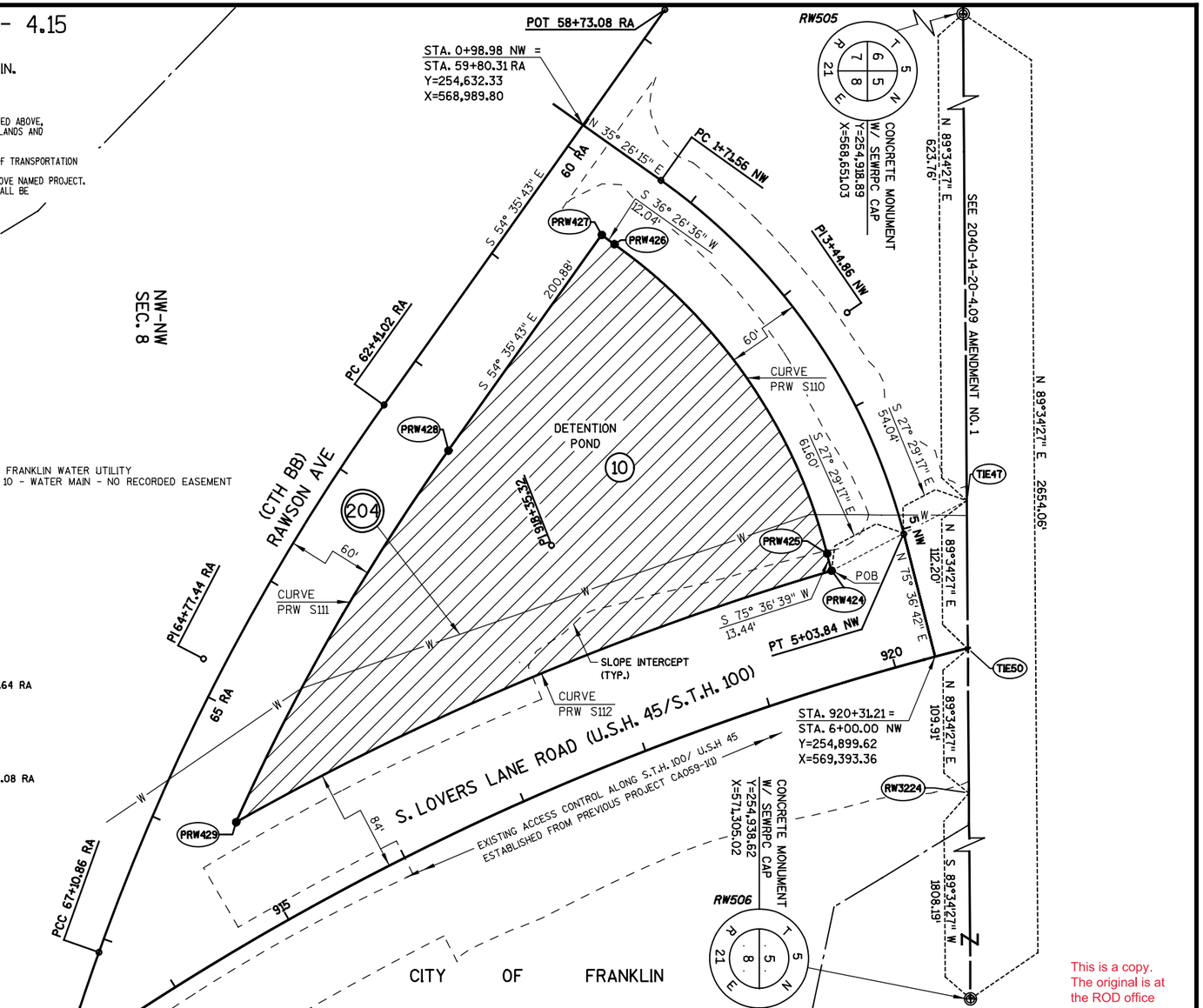
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
10	MILWAUKEE COUNTY	FEE	1.85 AC	--	1.85 AC	--

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
204	CITY OF FRANKLIN WATER UTILITY	RELEASE OF RIGHTS



NW-NW SEC. 8

(204) CITY OF FRANKLIN WATER UTILITY PARCEL 10 - WATER MAIN - NO RECORDED EASEMENT

This is a copy. The original is at the ROD office

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF THIS DOCUMENT.

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.15 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 7/8/21
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 07/08/21
(PRINTED NAME) Robert L. Duffeck

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.15
SHEET 1 OF 2
AMENDMENT NO:

07/14/2021
Doc # 11138616.

FILE NAME : S:\WIL\1000--1099\1089\919\Drawings\CAD\Micros\Plan\040415_rp.dgn
PLOT DATE : 7/8/2021
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
APPRAISAL PLAT DATE : 7/8/21
CONST. 2040-14-70 USH 45/STH 100 R/W 2040-14-20 - 4.15

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.09
AMENDMENT NO. 1

AMENDS PARCELS 54, 55, 56, 57, 58, 59, 60, 61, AND 62 AND AMENDS UTILITY NUMBER 201 OF TRANSPORTATION PROJECT PLAT 2040-14-20-4.09 RECORDED AS DOCUMENT NO. 10222171 AT THE MILWAUKEE COUNTY REGISTER OF DEEDS.

PART OF PARCELS 1 & 2 OF CSM 4143; PART OF LOT 13 OF BLOCK 1 AND LOTS 9 & 10 OF BLOCK 2 OF WHITNALL PARK HEIGHTS; AND PART OF PARCELS 1, 2 & 3 OF CSM 5403 IN AND INCLUDING THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 5, CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 LOVER'S LANE, CITY OF FRANKLIN
ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUB-SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1(18)/ 2040-3-21	1968	VARIES
RAWSON AVE.	F059-1(4)	1958	33'
S. PHYLLIS LN.	WHITNALL PARK HEIGHTS	1946	60'

R/W COURSE TABLE

TIE47 - RW1370	N 0°58'05" E	33.01'
RW1370 - RW1369	N 0°58'05" E	153.96'
RW1369 - RW1368	N 7°37'47" W	73.47'
RW1368 - RW10004	S 89°49'30" W	20.13'
RW10004 - PRW337	N 59°03'40" W	12.31'
PRW337 - PRW9	SEE CURVE PRW S86	
PRW9 - PRW11	N 1°01'11" E	222.02'
PRW11 - PRW12	S 89°40'36" E	29.96'
PRW12 - RW3222	N 1°02'19" E	19.25'
RW3222 - TIE48	S 88°58'49" E	70.04'
TIE48 - TIE49	N 1°01'11" E	31.12'
TIE49 - PRW19	S 88°55'15" E	94.52'
PRW19 - RW1346	S 0°57'22" W	220.00'
RW1346 - RW3002	S 2°07'40" E	272.73'
RW3002 - PRW338	S 3°28'09" W	60.16'
PRW338 - PRW339	SEE CURVE PRW S85	
PRW339 - 310	SEE CURVE EXRW S85	
310 - RW3223	S 89°31'58" W	22.03'
RW3223 - RW3224	SEE CURVE EXRW S85A	
RW3224 - TIE50	S 89°34'27" W	109.91'
TIE50 - TIE47	S 89°34'27" W	112.20'

R/W COURSE TABLE

RW1370 - TLE446	S 89° 34' 27" W	7.07'
TLE446 - TLE447	N 14° 55' 31" E	29.31'
TLE447 - TLE448	N 0° 58' 05" E	94.88'
TLE448 - TLE449	N 8° 22' 25" W	99.66'
TLE449 - TLE911	S 89° 49' 30" W	41.83'
TLE911 - TLE912	N 12° 32' 36" W	84.26'
TLE912 - TLE913	N 4° 23' 42" E	129.21'
TLE913 - TLE914	N 1° 01' 11" E	88.21'
TLE914 - TLE915	N 33° 11' 30" W	30.24'
TLE915 - TLE916	N 1° 01' 11" E	54.44'
TLE916 - TLE917	N 20° 49' 07" E	26.57'
TLE917 - TLE450	N 1° 01' 11" E	114.48'
TLE450 - TLE451	S 88° 58' 49" E	39.00'
TLE451 - TLE753	N 1° 01' 11" E	18.00'
TLE753 - RW3222	S 88° 58' 49" E	8.96'
PRW19 - TLE512	S 88° 55' 15" E	23.48'
TLE512 - TLE376	S 1° 01' 11" W	110.00'
TLE376 - TLE379	N 88° 55' 15" W	8.37'
TLE379 - TLE378	S 1° 20' 07" W	110.00'
TLE378 - TLE372	S 88° 55' 15" E	8.98'
TLE372 - TLE370	S 1° 01' 11" W	119.89'
TLE370 - TLE369	S 2° 48' 44" E	152.04'
TLE369 - RW1699	SEE CURVE EXRW S87	
RW1699 - RW3002	S 89° 19' 53" W	7.00'
PRW338 - RW1700	N 89° 19' 53" E	14.26'
RW1700 - TLE368	SEE CURVE EXRW S85B	
TLE368 - TLE367	S 12° 54' 21" W	115.60'
TLE367 - 310	SEE CURVE EXRW S55	

POINT *	STATION	OFFSET
310	920+92.56	113.35'
PRW9	926+08.36	-100.00'
PRW11	928+30.38	-100.00'
PRW12	928+30.75	-70.05'
PRW19	928+81.02	94.52'
PRW337	923+37.85	-100.00'
PRW338	923+15.38	87.48'
PRW339	923+12.24	77.37'
RW1346	926+61.02	94.77'
RW1368	923+28.51	-70.22'
RW1369	922+57.43	-70.25'
RW1370	921+12.54	-101.18'
RW1699	923+76.76	104.54'
RW1700	923+13.72	101.65'
RW3002	923+77.45	97.57'
RW3222	928+50.00	-70.04'
RW3223	920+97.62	91.86'
RW3224	920+29.31	106.61'
RW10004	923+30.69	-90.22'
TIE47	920+82.04	-109.16'

POINT *	STATION	OFFSET
TIE48	928+50.00	0.00'
TIE49	928+81.12	0.00'
TIE50	920+56.77	0.00'
TLE367	921+97.70	93.77'
TLE368	923+11.46	136.36'
TLE369	923+76.03	115.95'
TLE370	925+37.10	116.85'
TLE372	926+60.99	118.00'
TLE376	927+70.99	118.00'
TLE378	926+61.00	109.02'
TLE379	927+71.00	109.63'
TLE446	921+13.95	-108.09'
TLE447	921+38.83	-94.72'
TLE448	922+28.12	-75.59'
TLE449	923+24.30	-76.06'
TLE450	928+32.00	-118.00'
TLE451	928+32.00	-79.00'
TLE512	928+80.99	118.00'
TLE753	928+50.00	-79.00'

POINT *	STATION	OFFSET
TLE911	923+28.85	-117.61'
TLE912	924+07.85	-127.83'
TLE913	925+29.09	-111.59'
TLE914	926+13.07	-110.00'
TLE915	926+38.08	-127.00'
TLE916	926+92.52	-127.00'
TLE917	927+17.52	-118.00'

P.I. = 918+35.32
Y = 254,608.48
X = 569,308.80
DELTA = 44° 56' 30" (RT)
D = 2° 44' 53"
T = 862.40'
L = 1635.44'
R = 2085.00'
P.C. = 909+72.92
P.T. = 926+08.36
DB = N 43°55'20" W

ALIGNMENT SUB-CURVE
STA. 920+56.77 TO
PT 926+08.36
L = 551.59'
R = 2085.00'
LCH = 549.98'
LCB = N 6°33'33" W

CURVE EXRW S55
L = 101.84'
R = 1086.28'
LCH = 101.80'
LCB = S 22°47'46" E

CURVE EXRW S85
L = 212.93'
R = 1,086.28'
LCH = 212.59'
LCB = S 19°51'59" E

CURVE EXRW S85A
L = 66.72'
R = 1,106.28'
LCH = 66.71'
LCB = S 26°43'37" E

CURVE EXRW S85B
L = 34.78'
R = 370.00'
LCH = 34.77'
LCB = N 86°24'09" E

CURVE EXRW S87
L = 11.43'
R = 310.00'
LCH = 11.43'
LCB = S 88°31'57" W

CURVE PRW S85
L = 10.73'
R = 17.00'
LCH = 10.55'
LCB = S 66°16'42" W

CURVE PRW S86
L = 283.48'
R = 2,185.00'
LCH = 283.28'
LCB = N 2°41'49" W

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO CONSTRUCTION BY WISDOT SE REGION SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT USING THE WISCORS NETWORK. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. ALL DISTANCES ARE GROUND.

EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45
ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1) AND CA058-1(1)

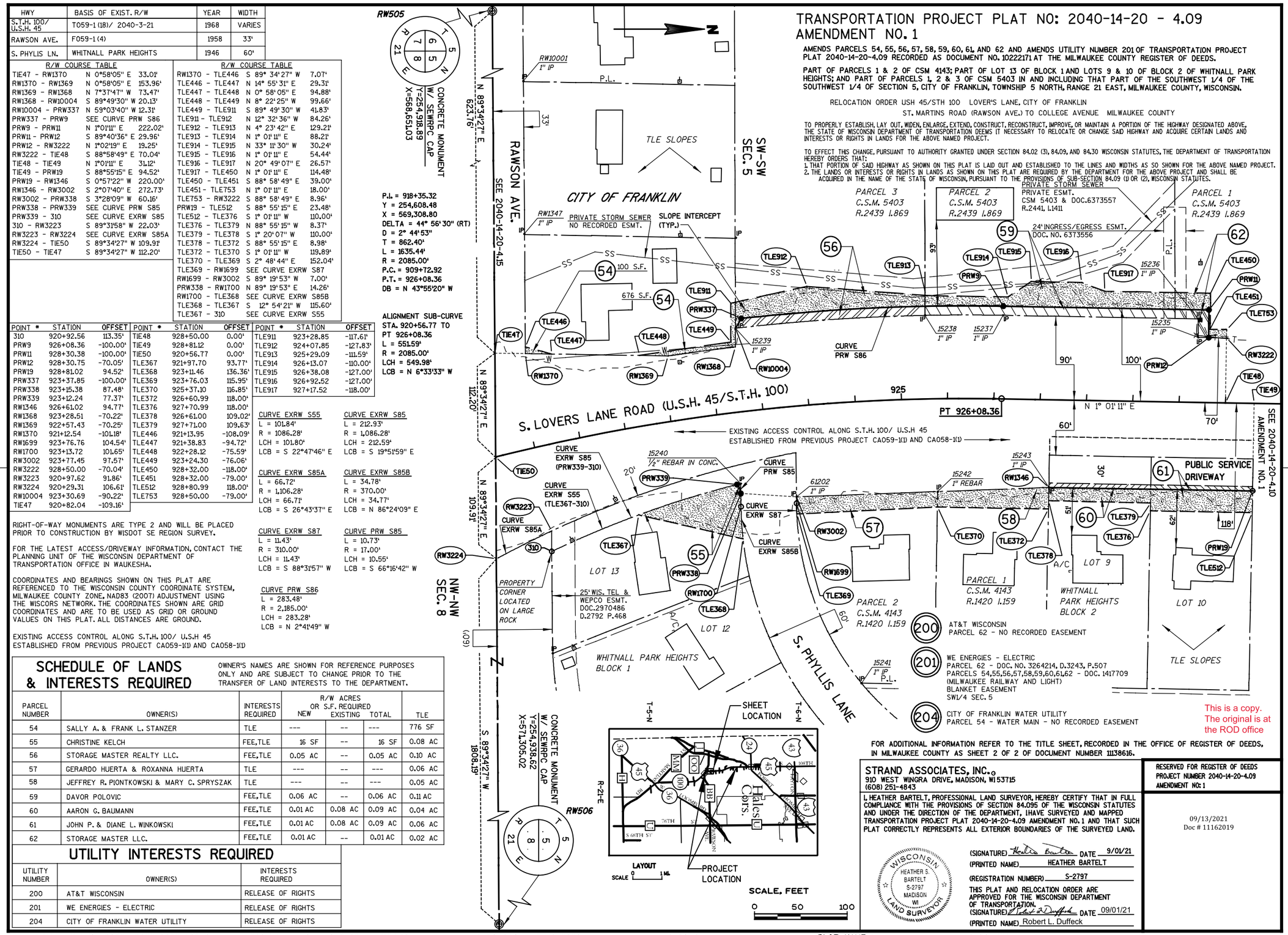
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
54	SALLY A. & FRANK L. STANZER	TLE	---	--	---	776 SF
55	CHRISTINE KELCH	FEE,TLE	16 SF	--	16 SF	0.08 AC
56	STORAGE MASTER REALTY LLC.	FEE,TLE	0.05 AC	--	0.05 AC	0.10 AC
57	GERARDO HUERTA & ROXANNA HUERTA	TLE	---	--	---	0.06 AC
58	JEFFREY R. PIONTKOWSKI & MARY C. SPRYSZAK	TLE	---	--	---	0.05 AC
59	DAVOR POLOVIC	FEE,TLE	0.06 AC	--	0.06 AC	0.11 AC
60	AARON G. BAUMANN	FEE,TLE	0.01 AC	0.08 AC	0.09 AC	0.04 AC
61	JOHN P. & DIANE L. WINKOWSKI	FEE,TLE	0.01 AC	0.08 AC	0.09 AC	0.06 AC
62	STORAGE MASTER LLC.	FEE,TLE	0.01 AC	--	0.01 AC	0.02 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTERESTS REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
204	CITY OF FRANKLIN WATER UTILITY	RELEASE OF RIGHTS



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 11138616.

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.09 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather Bartelt DATE 9/01/21
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) Robert L Duffeck DATE 09/01/21
(PRINTED NAME) Robert L. Duffeck

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.09
AMENDMENT NO: 1

09/13/2021
Doc # 11162019

This is a copy. The original is at the ROD office

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.09

PART OF PARCELS 1 & 2 OF CSM 4143; PART OF LOT 13 OF BLOCK 1 AND LOTS 9 & 10 OF BLOCK 2 OF THE PLAT OF WHITNALL PARK HEIGHTS; AND PART OF PARCELS 1, 2 & 3 OF CSM 5403; ALL IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 5, CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1(18)/ 2040-3-21	1968	VARIES
RAWSON AVE.	F059-1(4)	1958	33'
S. PHYLIS LN.	PLAT OF WHITNALL PARK HEIGHTS	1946	60'

R/W COURSE TABLE

TIE47 - PRW1	N 0°25'33" E	33.00'
PRW2 - PRW3	N 0°58'05" E	53.49'
PRW282 - RW10004	S 89°49'30" W	8.18'
RW10004 - PRW281	N 6°30'27" W	6.45'
PRW281 - PRW337	S 89°32'09" W	35.07'
PRW7 - PRW8	N 4°45'06" E	123.58'
PRW9 - PRW11	N 1°01'11" E	152.37'
PRW11 - PRW12	S 89°40'36" E	29.96'
PRW12 - RW3222	N 1°02'19" E	19.25'
RW3222 - TIE48	S 88°58'49" E	70.04'
TIE48 - TIE49	N 1°01'11" E	31.12'
TIE49 - RW3005	S 88°55'15" E	89.97'
PRW19 - PRW16	S 1°01'11" W	272.65'
PRW15 - PRW14	S 2°07'40" E	102.56'
PRW13 - PRW338	S 5°46'46" W	60.38'
310 - RW3223	S 89°31'58" W	22.03'
PRW1 - TLE446	S 89°34'27" W	4.87'
TLE446 - TLE447	N 0°04'29" W	133.94'
TLE447 - TLE448	N 48°13'03" W	184.03'
TLE448 - TLE449	N 20°22'02" E	186.63'
TLE449 - TLE450	N 1°01'11" E	308.81'
TLE450 - TLE451	S 88°58'49" E	54.00'

R/W COURSE TABLE

TLE451 - TLE753	N 1°01'11" E	18.00'
TLE753 - RW3222	S 88°58'49" E	8.96'
RW3005 - PRW19	S 88°55'15" E	10.03'
PRW19 - TLE512	S 88°55'15" E	18.00'
TLE512 - TLE376	S 1°01'11" W	110.00'
TLE376 - TLE375	S 38°53'59" E	29.61'
TLE375 - TLE374	S 1°01'11" W	20.00'
TLE374 - TLE373	S 40°10'09" W	30.09'
TLE373 - TLE372	S 1°01'11" W	43.95'
TLE372 - TLE371	S 3°53'06" W	120.03'
TLE371 - TLE370	S 88°56'39" E	14.13'
TLE370 - TLE369	S 3°10'15" E	151.41'
RW1699 - PRW13	S 89°19'53" W	4.56'
PRW338 - RW1700	N 89°19'53" E	14.26'
TLE368 - TLE367	S 12°54'21" W	115.60'

POINT #	STATION	OFFSET	POINT #	STATION	OFFSET	POINT #	STATION	OFFSET
310	920+92.56	113.35	PRW319	813+10.00	90.00	TLE371	925+37.32	110.85
PRW1	921+14.21	-109.35	PRW337	923+40.32	-125.11	TLE372	926+60.99	118.00
PRW2	921+44.17	-93.45	PRW338	923+15.38	87.48	TLE373	927+04.95	118.00
PRW3	921+94.13	-82.36	PRW339	928+30.75	-70.04	TLE374	927+28.28	137.00
PRW4	922+02.85	-82.12	RW505	921+86.51	-720.41	TLE375	927+48.29	137.00
PRW5	925+02.94	-112.04	RW1699	923+76.85	104.54	TLE376	927+70.99	118.00
PRW7	925+28.63	-110.63	RW1700	923+13.72	101.65	TLE446	921+15.18	-114.11
PRW8	926+47.74	-100.99	RW3005	928+81.02	89.97	TLE447	922+40.68	-89.16
PRW9	926+78.01	-100.00	RW3222	928+50.00	-70.04	TLE448	923+70.47	-209.75
PRW11	928+30.38	-100.00	RW3223	920+97.62	91.86	TLE449	925+28.34	-134.63
PRW12	928+30.75	-70.04	RW3224	920+29.31	106.61	TLE450	928+32.00	-133.00
PRW13	923+77.24	100.00	RW1000	923+30.6	-90.22	TLE451	928+32.00	-79.00
PRW14	924+39.95	100.00	TIE47	920+83.65	-116.52	TLE512	928+80.99	118.00
PRW15	925+47.69	100.00	TIE48	928+50.00	0.00	TLE753	928+50.00	-79.00
PRW16	926+08.36	100.00	TIE49	928+81.12	0.00			
PRW19	928+81.01	100.00	TIE50	920+56.77	0.00			
PRW279	924+82.36	-112.05	TLE367	921+97.70	93.77			
PRW280	924+41.98	-140.76	TLE368	923+11.46	136.36			
PRW281	923+36.88	-90.22	TLE369	923+75.69	125.00			
PRW282	923+29.81	-82.09	TLE370	925+36.80	124.97			

P.I. = 53+08.72 A
Y = 255,220.95
X = 569,643.67
DELTA = 62° 25' 35" (LT)
D = 16° 48' 0"
T = 206.65'
L = 371.58'
R = 341.04'
P.C. = 51+02.07 A
P.T. = 54+73.65 A

P.I. = 918+35.32
Y = 254,608.48
X = 569,308.80
DELTA = 44° 56' 30" (RT)
D = 2° 44' 53"
T = 862.40'
L = 1635.44'
R = 2085.00'
P.C. = 909+72.92
P.T. = 926+08.36

CURVE EXRW S55
L = 101.84'
R = 1086.28'
LC = 101.80'
LCB = S 22°47'46" E

CURVE EXRW S87
L = 20.49'
R = 310.00'
LC = 20.48'
LCB = S 87°41'44" W

CURVE EXRW S85B
L = 34.78'
R = 370.00'
LC = 34.77'
LCB = N 86°24'09" E

CURVE PRW S84
L = 35.26'
R = 185.00'
LC = 35.21'
LCB = N 14°42'00" E

CURVE PRW S84A
L = 9.07'
R = 185.00'
LC = 9.07'
LCB = N 8°42'29" W

CURVE PRW S84B
L = 131.96'
R = 2,165.00'
LC = 131.94'
LCB = N 8°21'59" W

CURVE PRW S86
L = 151.07'
R = 56.00'
LC = 109.25'
LCB = N 13°10'51" W

CURVE PRW S86A
L = 54.57'
R = 47.00'
LC = 51.56'
LCB = N 30°50'21" E

CURVE PRW S86B
L = 21.69'
R = 2,195.00'
LC = 21.69'
LCB = N 2°08'29" W

CURVE PRW S86C
L = 27.11'
R = 235.00'
LC = 27.09'
LCB = N 1°26'48" E

CURVE PRW S89
L = 30.29'
R = 465.00'
LC = 30.28'
LCB = N 2°53'08" E

CURVE PRW S88
L = 57.77'
R = 1,985.00'
LC = 57.77'
LCB = S 0°11'10" W

CURVE PRW S87
L = 59.70'
R = 1,985.00'
LC = 59.70'
LCB = S 4°28'11" E

CURVE PRW S85
L = 10.73'
R = 17.00'
LC = 10.55'
LCB = S 66°16'42" W

CURVE EXRW S85
L = 212.93'
R = 1,086.28'
LC = 212.59'
LCB = S 19°51'59" E

CURVE EXRW S85A
L = 66.72'
R = 1,106.28'
LC = 66.71'
LCB = S 26°43'37" E

EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45 ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1) AND CA058-1(1)

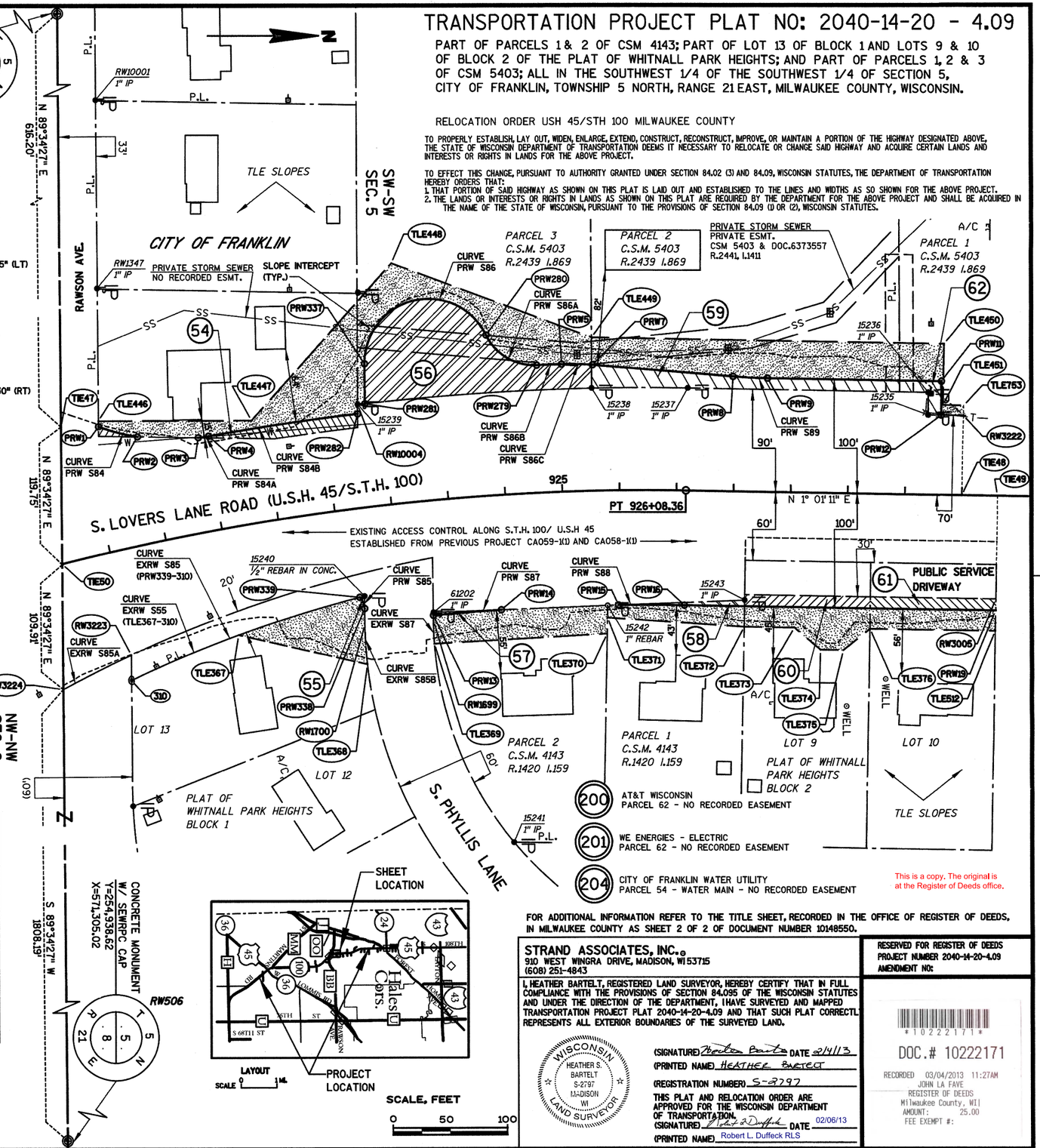
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
54	MARIO M. BALISTRERI	FEE,TLE	0.03 AC	--	0.03 AC	0.15 AC
55	RUSSELL & SHIRLEY A. SPILKA	TLE	--	--	--	0.08 AC
56	TOM STAMAS & ANNA STAMAS	FEE,TLE	0.24 AC	--	0.24 AC	0.16 AC
57	GERARDO HUERTA & ROXANNA HUERTA	FEE,TLE	64 SF	--	64 SF	0.09 AC
58	JEFFREY R. & MARY C. PIONTKOWSKY	FEE,TLE	0.01 AC	--	0.01 AC	0.04 AC
59	DAVOR POLOVIC	FEE,TLE	0.08 AC	--	0.08 AC	0.19 AC
60	PRESTON AND ABIGAIL RODRIGUEZ	FEE,TLE	0.03 AC	0.08 AC	0.11 AC	0.06 AC
61	JOHN P. & DIANE C. WINKOWSKI	FEE,TLE	0.02 AC	0.08 AC	0.10 AC	0.05 AC
62	HUGO'S STEAKHOUSE, LLC	FEE,TLE	0.01 AC	--	0.01 AC	0.03 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
204	CITY OF FRANKLIN WATER UTILITY	RELEASE OF RIGHTS



This is a copy. The original is at the Register of Deeds office.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 10148550.

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather Bartelt DATE 2/4/13
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) Robert L. Dufleck DATE 02/06/13
(PRINTED NAME) Robert L. Dufleck RLS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.09
AMENDMENT NO:

10222171
DOC.# 10222171
RECORDED 03/04/2013 11:27AM
JOHN LA FAVE
REGISTER OF DEEDS
Milwaukee County, WI
AMOUNT: 25.00
FEE EXEMPT #:

FILE NAME : S:\MIL\1000--1099\1089\183\Micros\Design\TPP PLAT\2040-14-20\040409_rp.dgn
PLOT DATE : 2/4/2013
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
CONST. 2040-14-70 USH 45/STH 100
R/W 2040-14-20 - 4.09

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.10 AMENDMENT NO. 1

AMENDS PARCELS 62, 63, 64, 65, 68, 69, 70, 71, 72, 73 & 74, REMOVES PARCEL 75, AMENDS UTILITY 201 AND REMOVES UTILITY 202 OF TRANSPORTATION PROJECT PLAT 2040-14-20-4.10 RECORDED AS DOCUMENT NO. 10222172 AT THE MILWAUKEE COUNTY REGISTER OF DEEDS.

PART OF PARCEL 1 OF CSM 5403; AND PART OF LOTS 11, 12 AND 13 OF BLOCK 2 OF WHITNALL PARK HEIGHTS, LOCATED IN AND INCLUDING THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4; AND PART OF LOT 1 OF CSM 540; PART OF PARCEL 1 OF CSM 3256; PART OF PARCEL 2 OF CSM 5276; AND PART OF LOT 1 OF BLOCK 1 OF WHITNALL SLOPES; AND PART OF LOT 8 OF BLOCK 1 OF WHITNALL SLOPES LOCATED IN AND INCLUDING THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4, ALL IN SECTION 5, CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 LOVER'S LANE, CITY OF FRANKLIN
ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

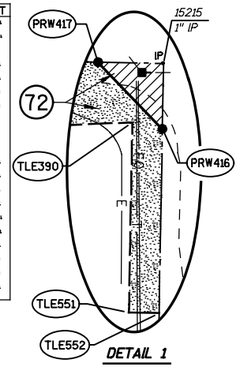
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUB-SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

R/W COURSE TABLE		
RW506 - TIE51	S 89° 34' 27" W	1970.81'
TIE51 - TIE48	N 0° 25' 33" W	788.40'
TIE48 - RW3222	N 88° 58' 49" W	70.04'
RW3222 - PRW21	N 1° 02' 19" E	1128.38'
PRW21 - PRW28	N 28° 09' 32" W	14.76'
PRW28 - RW1702	N 7° 53' 10" E	60.41'
RW1702 - TIE52	N 87° 55' 37" E	69.75'
TIE52 - RW1334	N 87° 55' 37" E	70.46'
RW1334 - PRW416	S 8° 15' 15" E	66.87'
PRW416 - PRW417	S 46° 02' 19" W	15.27'
PRW417 - PRW409	S 1° 02' 19" W	557.04'
PRW409 - PRW410	S 25° 57' 28" E	13.73'
PRW410 - PRW31	S 15° 27' 46" E	62.11'
PRW31 - PRW19	S 0° 57' 22" W	472.16'
PRW19 - TIE49	N 88° 55' 15" W	94.52'
TIE49 - TIE48	S 1° 01' 11" W	31.12'
RW3222 - TLE753	N 88° 58' 49" W	8.96'
TLE753 - TLE900	N 1° 01' 11" E	217.59'
TLE900 - TLE901	N 90° 00' 00" W	5.00'
TLE901 - TLE902	N 1° 01' 11" E	51.76'
TLE902 - TLE527	N 89° 49' 28" E	5.00'
TLE527 - TLE452	N 1° 01' 11" E	429.09'
TLE452 - TLE903	N 11° 54' 11" W	44.72'
TLE903 - TLE454	N 1° 01' 11" E	12.00'

R/W COURSE TABLE		
TLE454 - TLE455	N 14° 28' 46" E	47.26'
TLE455 - TLE456	N 1° 01' 11" E	200.00'
TLE456 - TLE458	N 0° 15' 26" W	141.22'
TLE458 - PRW28	N 89° 49' 57" E	4.28'
PRW416 - TLE552	S 88° 58' 40" E	30.41'
TLE552 - TLE551	S 1° 01' 20" W	4.96'
TLE551 - TLE390	N 88° 59' 32" W	31.37'
TLE390 - TLE807	S 2° 07' 51" E	87.97'
TLE807 - TLE806	S 6° 43' 49" W	50.25'
TLE806 - TLE389	S 1° 01' 11" W	200.00'
TLE389 - TLE388	S 9° 43' 02" E	37.57'
TLE388 - TLE387	S 1° 01' 11" W	190.54'
TLE387 - TLE386	S 52° 03' 13" E	15.32'
TLE386 - PRW410	S 89° 31' 37" W	22.88'
PRW31 - TLE385	N 89° 31' 37" E	14.00'
TLE385 - TLE384	S 1° 01' 11" W	101.97'
TLE384 - TLE383	S 30° 15' 05" E	25.04'
TLE383 - TLE382	S 1° 01' 11" W	22.19'
TLE382 - TLE381	S 89° 35' 10" W	15.48'
TLE381 - TLE380	S 0° 45' 19" W	216.60'
TLE380 - TLE513	S 88° 55' 15" E	11.48'
TLE513 - TLE512	S 1° 01' 11" W	110.00'
TLE512 - PRW19	N 88° 55' 15" W	23.48'

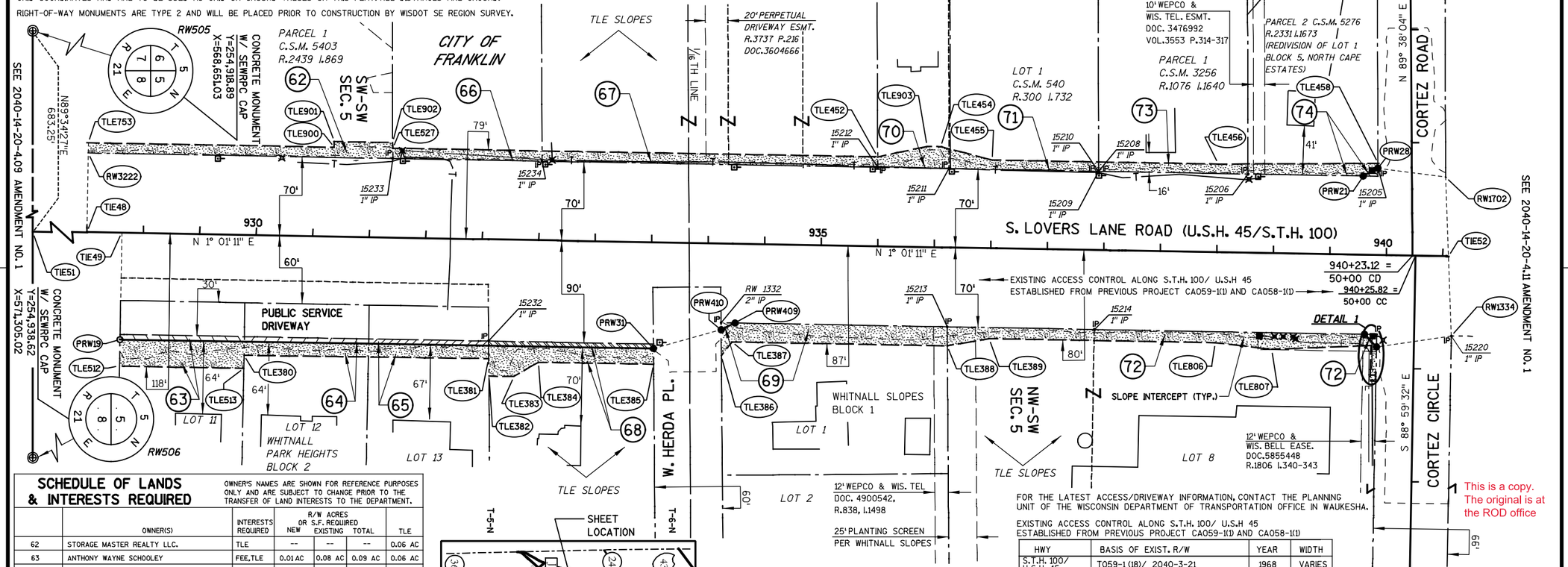
POINT #	STATION	OFFSET
PRW19	928+81.02	94.52'
PRW21	939+78.38	-69.67'
PRW28	939+91.27	-76.87'
PRW31	933+53.18	94.00'
PRW409	934+24.98	70.15'
PRW410	934+12.74	76.38'
PRW416	939+92.81	81.13'
PRW417	939+82.02	70.33'
RW1334	940+58.81	70.36'
RW1702	940+51.25	-69.65'
RW3222	928+50.00	-70.04'
TIE48	928+50.00	0.00'
TIE49	928+81.12	0.00'
TIE51	920+68.96	-51.24'
TIE52	940+55.01	0.00'
TLE380	929+91.01	106.52'
TLE381	932+07.60	105.52'
TLE382	932+07.99	121.00'
TLE383	932+30.17	121.00'
TLE384	932+51.58	108.00'
TLE385	933+53.55	108.00'
TLE386	934+13.34	99.25'
TLE387	934+22.54	87.00'

POINT #	STATION	OFFSET
TLE388	936+13.08	87.00'
TLE389	936+50.00	80.00'
TLE390	939+87.84	80.17'
TLE452	935+48.46	-79.00'
TLE454	936+04.04	-89.00'
TLE455	936+50.00	-78.00'
TLE456	938+50.00	-78.00'
TLE458	939+91.18	-81.15'
TLE512	928+80.99	118.00'
TLE513	929+90.99	118.00'
TLE527	931+19.36	-79.00'
TLE551	51+11.53 CC	38.00'
TLE552	51+11.53 CC	33.04'
TLE753	928+50.00	-79.00'
TLE806	938+50.00	80.00'
TLE807	939+00.00	85.00'
TLE900	930+67.59	-79.00'
TLE901	930+67.50	-84.00'
TLE902	931+19.26	-84.00'
TLE903	935+92.04	-89.00'



COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT USING THE WISCORS NETWORK. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. ALL DISTANCES ARE GROUND.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO CONSTRUCTION BY WISDOT SE REGION SURVEY.



S.T.H. 100/ U.S.H. 45	T059-1 (18)/ 2040-3-21	1968	VARIES
W. HERDA PL.	WHITNALL PARK HEIGHTS	1946	60'
CORTEZ RD.	NORTH CAPE ESTATES	--	60'
CORTEZ CIR.	WHITNALL SLOPES	--	60'

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45 ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1) AND CA058-1(1)

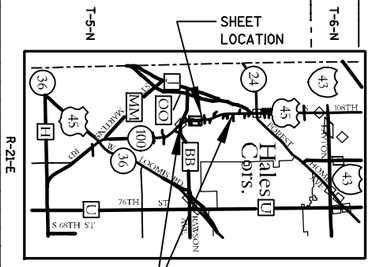
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

	OWNER(S)	INTERESTS REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
62	STORAGE MASTER REALTY LLC.	TLE	--	--	--	0.06 AC
63	ANTHONY WAYNE SCHOOLEY	FEE,TLE	0.01 AC	0.08 AC	0.09 AC	0.06 AC
64	HOWARD D. VERBURGT	FEE,TLE	0.01 AC	0.08 AC	0.09 AC	0.03 AC
65	ELLEN HESS	FEE,TLE	0.01 AC	0.07 AC	0.08 AC	0.03 AC
66	MILIVOJE MINIC	TLE	--	--	--	0.03 AC
67	PRIESTS OF THE SACRED HEART	TLE	--	--	--	0.06 AC
68	VINCENT L. & BILLIE R. TRIPI	FEE,TLE	0.01 AC	--	0.01 AC	0.06 AC
69	JOSHUA B. & SUZANNE L. BRESLOW	FEE,TLE	39 SF	--	39 SF	0.08 AC
70	DENNIS K. & MARCIA A. KNOLLENBERG	TLE	--	--	--	0.02 AC
71	ROBERT M. & SUSAN R. STRZELEC	TLE	--	--	--	0.03 AC
72	WHITNALL POINTE LIMITED PARTNERSHIP	FEE,TLE	58 SF	--	58 SF	0.10 AC
73	MATTHEW M. LEWITZKE	TLE	--	--	--	0.02 AC
74	DRAGAN RADETA & JOKA RADETA	FEE,TLE	47 SF	--	47 SF	0.03 AC
75	ELIMINATED	--	--	--	--	--

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTERESTS REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	ELIMINATED	---
203	TIME WARNER CABLE	RELEASE OF RIGHTS



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 11138616.

200 AT&T WISCONSIN
PARCEL 66 - PEDESTAL NO RECORDED EASEMENT
PARCEL 67 - PEDESTAL NO RECORDED EASEMENT
PARCEL 69 - DOC. 4900542, R.838, l.1498
PARCEL 70 - NO RECORDED EASEMENT
PARCEL 72 - DOC. 5855448, R.1806, l.340
PARCEL 74 - DOC. 3476992, V.3553, P.314

201 WE ENERGIES - ELECTRIC
PARCEL 69 - DOC. 4900542, R.838, l.1498
PARCEL 72 - DOC. 6444069, R.2523, l.533
PARCEL 72 - DOC. 5855448, R.1806, l.340
PARCEL 74 - DOC. 3476992, V.3553, P.314
PARCELS 62,63,64,65,66,67,68, 69,70,71,72,74 - DOC. 1417709
(MILWAUKEE RAILWAY AND LIGHT) BLANKET EASEMENT
SW1/4 SEC. 5

203 TIME WARNER CABLE
PARCEL 72 - NO RECORDED EASEMENT

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.10 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather Bartelt DATE 9/01/21
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) Robert L Dufffeck DATE 09/01/21
(PRINTED NAME) Robert L. Dufffeck

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.10
AMENDMENT NO: 1

09/13/2021
Doc # 11162020

This is a copy. The original is at the ROD office

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.10

PART OF PARCEL 1 OF CSM 5403; AND PART OF LOTS 11, 12 AND 13 OF BLOCK 2 OF THE PLAT OF WHITNALL PARK HEIGHTS, LOCATED IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4; AND PART OF LOT 1 OF CSM 540; PART OF PARCEL 1 OF CSM 3256; PART OF PARCELS 1 & 2 OF CSM 5276; AND PART OF LOT 1, BLOCK 1 PLAT OF WHITNALL SLOPES; AND PART OF LOT 8 OF BLOCK 1 OF THE PLAT OF WHITNALL SLOPES, IN THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4, ALL IN SECTION 5, CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 MILWAUKE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

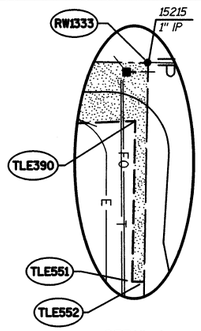
R/W COURSE TABLE		
TIE51 - TIE48	N 0°25'23" W	788.40'
TIE48 - RW3222	N 88°58'49" W	70.04'
RW3222 - PRW21	N 1°02'19" E	1128.38'
PRW21 - PRW28	N 28°09'31" E	14.76'
PRW28 - PRW278	N 7°33'11" E	60.36'
PRW278 - RW1702	N 89°51'57" E	0.35'
RW1702 - TIE52	N 87°55'37" E	69.75'
TIE52 - RW1334	N 87°55'37" E	70.46'
RW1334 - RW1333	S 1°02'19" W	66.00'
RW1333 - RW1332	S 1°02'19" W	580.23'
PRW31 - PRW19	S 1°01'11" W	472.33'
PRW19 - RW3005	N 88°55'15" W	10.03'
RW3005 - TIE49	N 88°55'15" W	89.97'
TIE49 - TIE48	S 1°01'11" W	31.12'
RW3222 - TLE753	N 88°58'49" W	8.96'
TLE753 - TLE452	N 1°01'11" E	698.46'
TLE452 - TLE454	N 7°48'10" W	52.16'
TLE454 - TLE455	N 11°13'25" E	50.80'
TLE455 - TLE456	N 1°01'11" E	200.00'
TLE456 - TLE457	N 13°33'16" W	51.66'
TLE457 - TLE458	N 1°01'11" E	77.91'
TLE458 - TLE459	S 89°38'04" W	174.19'
TLE459 - TLE460	N 0°21'56" W	13.67'

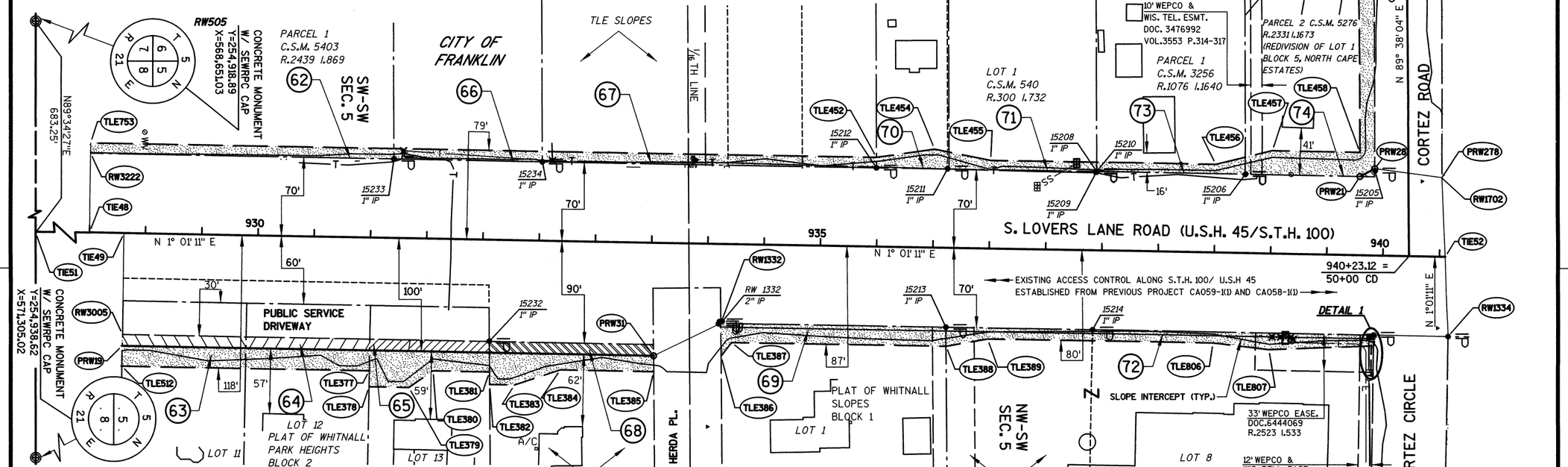
R/W COURSE TABLE		
TLE460 - PRW28	N 89°49'57" E	188.64'
PRW28 - PRW278	N 1°01'11" E	59.83'
RW1333 - TLE552	S 88°58'40" E	36.20'
TLE552 - TLE551	S 1°01'20" W	1.97'
TLE551 - TLE390	N 88°59'32" W	26.54'
TLE390 - TLE807	S 2°07'51" E	90.98'
TLE807 - TLE806	S 6°43'49" W	50.25'
TLE806 - TLE389	S 1°01'11" W	200.00'
TLE389 - TLE388	S 9°43'01" E	37.57'
TLE388 - TLE387	S 1°01'11" W	190.54'
TLE387 - TLE386	S 52°03'13" E	15.32'
TLE386 - RW1332	S 89°31'37" W	29.11'
RW1332 - PRW31	S 25°43'33" E	66.34'
PRW31 - TLE385	N 89°31'37" E	14.00'
TLE385 - TLE384	S 1°01'11" W	82.99'
TLE384 - TLE383	S 18°01'49" E	42.89'
TLE383 - TLE382	S 1°01'11" W	22.01'
TLE382 - TLE381	S 89°35'10" W	11.00'
TLE381 - TLE380	S 1°01'11" W	50.37'
TLE380 - TLE379	S 34°11'13" E	26.02'
TLE379 - TLE378	S 1°01'11" W	35.28'
TLE378 - TLE377	N 88°55'15" W	14.00'
TLE377 - TLE512	S 1°01'11" W	220.00'
TLE512 - PRW19	N 88°55'15" W	18.00'

POINT #	STATION	OFFSET
PRW19	928+81.01	100.00
PRW21	939+78.38	-69.67
PRW28	939+91.27	-76.87
PRW278	940+51.24	-70.00
PRW31	933+53.34	100.00
RW505	921+86.51	-720.41
RW1332	934+12.58	70.15
RW1333	939+92.81	70.34
RW1334	940+58.81	70.36
RW1702	940+51.25	-69.64
RW3005	928+81.02	89.97
RW3222	928+50.00	-70.04
TIE48	928+50.00	0.00
TIE49	928+81.12	0.00
TIE52	940+55.01	0.00
TLE377	931+00.99	118.00
TLE378	931+00.98	132.00
TLE379	931+36.26	132.00
TLE380	931+57.52	117.00
TLE381	932+07.89	117.00
TLE382	932+08.16	128.00
TLE383	932+30.17	128.00

POINT #	STATION	OFFSET
TLE384	932+70.72	114.00
TLE385	933+53.70	114.00
TLE386	934+13.34	99.25
TLE387	934+22.54	87.00
TLE388	936+13.08	87.00
TLE389	936+50.00	80.00
TLE390	939+90.84	80.00
TLE452	935+48.46	-79.00
TLE454	936+00.00	-87.00
TLE455	936+50.00	-78.00
TLE456	938+50.00	-78.00
TLE457	939+00.00	-91.00
TLE458	939+77.91	-91.00
TLE459	939+73.70	-265.14
TLE460	939+87.36	-265.47
TLE512	928+80.99	118.00
TLE551	939+90.84	106.54
TLE552	939+92.81	106.54
TLE753	928+50.00	-79.00
TIE51	920+68.96	-51.23
TLE806	938+50.00	80.00
TLE807	939+00.00	95.00

POT 933+80.24
Y= 256,245.50
X= 569,337.88





EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45 ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1) AND CA058-1(1)			
HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1 (18)/ 2040-3-21	1968	VARIES
W. HERDA PL.	PLAT OF WHITNALL PARK HEIGHTS	1946	60'
CORTEZ RD.	PLAT OF NORTH CAPE ESTATES	--	60'
CORTEZ CIR.	PLAT OF WHITNALL SLOPES	--	60'

SCHEDULE OF LANDS & INTERESTS REQUIRED

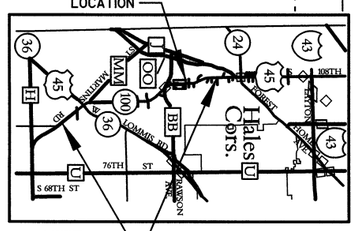
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
62	HUGO'S STEAKHOUSE, LLC	TLE	--	--	--	0.06 AC
63	ANTHONY WAYNE SCHOOLEY	FEE,TLE	0.02 AC	0.08 AC	0.10 AC	0.05 AC
64	HOWARD VERBURGT	FEE,TLE	0.02 AC	0.08 AC	0.10 AC	0.05 AC
65	SYLVINUS F. & DORIS A. HESS	FEE,TLE	0.02 AC	0.07 AC	0.09 AC	0.06 AC
66	JOSEPH A. SANTORO	TLE	--	--	--	0.03 AC
67	PRIESTS OF THE SACRED HEART	TLE	--	--	--	0.06 AC
68	VINCENT L. & BILLIE R. TRIPI	FEE,TLE	0.03 AC	--	0.03 AC	0.06 AC
69	JOSHUA B. & SUZANNE L. BRESLOW	TLE	--	--	--	0.08 AC
70	DENNIS K. & MARCIA A. KNOLLENBERG	TLE	--	--	--	0.02 AC
71	ROBERT M. & SUSAN R. STRZELEC	TLE	--	--	--	0.03 AC
72	WHITNALL POINTE DELAWARE BUSINESS TRUST	TLE	--	--	--	0.10 AC
73	MATTHEW M. LEWITZKE	TLE	--	--	--	0.03 AC
74	DRAGAN RADETA & JOKA RADETA	FEE,TLE	47 SF	--	47 SF	0.10 AC
75	TAVIS A. & CHRISTY L. SCHMID	TLE	--	--	--	0.01 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	CITY OF FRANKLIN SANITARY SEWER	RELEASE OF RIGHTS
203	TIME WARNER CABLE	RELEASE OF RIGHTS

SHEET LOCATION



PROJECT LOCATION

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 1014855.

200 AT&T WISCONSIN
PARCEL 66 - PEDESTAL NO RECORDED EASEMENT
PARCEL 67 - PEDESTAL NO RECORDED EASEMENT
PARCEL 69 - DOC. 4900542, R.838, I.1498
PARCEL 70 - NO RECORDED EASEMENT
PARCEL 72 - DOC. 5855448, R.1806, I.340
PARCEL 74 - DOC. 3476992, V.3553, P.314

201 WE ENERGIES - ELECTRIC
PARCEL 69 - DOC. 4900542, R.838, I.1498
PARCEL 72 - 1 POWER POLE, ELECTRIC LINE - NO RECORDED EASEMENT
PARCEL 72 - DOC. 6444069, R.2523, I.533
PARCEL 72 - DOC. 5855448, R.1806, I.340
PARCEL 74 - DOC. 3476992, V.3553, P.314

202 CITY OF FRANKLIN SANITARY SEWER
PARCEL 71 - INLET - NO RECORDED EASEMENT

203 TIME WARNER CABLE
PARCEL 72 - NO RECORDED EASEMENT

This is a copy. The original is at the Register of Deeds office.

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.10 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 2/4/13
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 02/06/13
(PRINTED NAME) Robert L. Dufleck RLS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.10
AMENDMENT NO:

DOC.# 10222172
RECORDED 03/04/2013 11:27AM
JOHN LA FAVE
REGISTER OF DEEDS
Milwaukee County, WI
AMOUNT: 25.00
FEE EXEMPT #:

FILE NAME : S:\MIL\1000--1099\1089\183\Micros\Design\TPP PLAT\2040-14-20\040410_rp.dgn PLOT DATE : 2/4/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

CONST. 2040-14-70 USH 45/STH 100 R/W 2040-14-20 - 4.10

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
72	WHITNALL POINTE LIMITED PARTNERSHIP	FEE,TLE	91 SF	--	91 SF	0.18 AC
76	RAFAEL & GLORIA E. CRUZ	TLE	--	--	--	0.13 AC
77	WOODLAND PRAIRIE CONDOMINIUMS *	TLE	--	--	--	0.19 AC
78	NISENBAUM HOMES AND REALTY, INC.	TLE	--	--	--	0.01 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTERESTS REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
203	TIME WARNER	RELEASE OF RIGHTS
204	CITY OF FRANKLIN WATER UTILITY	RELEASE OF RIGHTS

* (RICK & RON DEVELOPMENT, LLC)

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1(18)/ 2040-3-21	1968	VARIES
S. PRAIRIEWOOD LANE	CSM 8024	2007	60'
CORTEZ CIR.	WHITNALL SLOPES	--	66'
CORTEZ ROAD	NORTH CAPE ESTATES	--	60'

EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45
ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1) AND CA058-1(1)

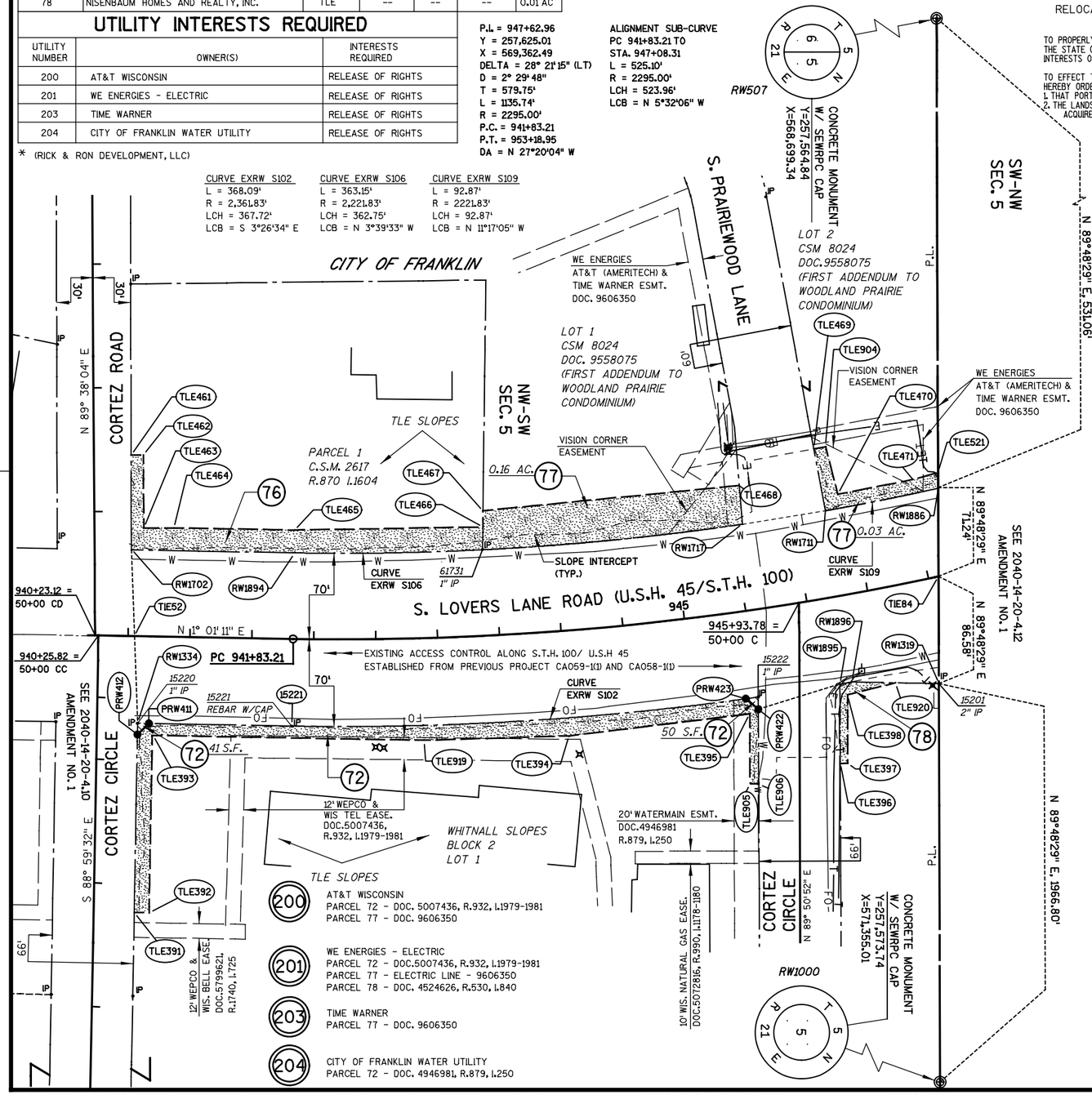
ALIGNMENT SUB-CURVE
PC 941+83.21 TO
STA. 947+08.31
L = 525.10'
R = 2295.00'
LCH = 523.96'
LCB = N 5°32'06" W

P.I. = 947+62.96
Y = 257,625.01
X = 569,362.49
DELTA = 28° 21' 15" (LT)
D = 2° 29' 48"
T = 579.75'
L = 1135.74'
R = 2295.00'
P.C. = 941+83.21
P.T. = 953+18.95
DA = N 27°20'04" W

CURVE EXRW S102
L = 368.09'
R = 2,361.83'
LCH = 367.72'
LCB = S 3°26'34" E

CURVE EXRW S106
L = 363.15'
R = 2,221.83'
LCH = 362.75'
LCB = N 3°39'33" W

CURVE EXRW S109
L = 92.87'
R = 2221.83'
LCH = 92.87'
LCB = N 11°17'05" W



TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.11 AMENDMENT NO. 1

AMENDS PARCELS 72, 76, 77 & 78 AND AMENDS UTILITY NUMBERS 200, 201, & 204 AND ADDS UTILITY NUMBER 203 OF TRANSPORTATION PROJECT PLAT 2040-14-20-4.11 RECORDED AS DOCUMENT NO. 10222173 AT THE MILWAUKEE COUNTY REGISTER OF DEEDS.

PART OF PARCEL 1 OF CSM 2617; AND PART OF LOT 1 OF BLOCK 2 OF WHITNALL SLOPES; AND THAT PART OF THE FIRST ADDENDUM TO WOODLAND PRAIRIE CONDOMINIUM BEING ALL OF LOTS 1& 2 OF CSM 8024 LOCATED IN AND INCLUDING THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 5, CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 LOVER'S LANE, CITY OF FRANKLIN
ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE MILWAUKEE COUNTY

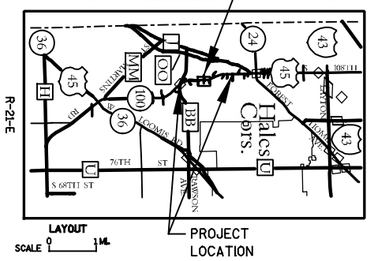
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUB-SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

R/W COURSE TABLE		
RW1319 - RW1896	S 1° 02' 37" W	70.06'
RW1896 - RW1895	S 9° 53' 46" E	9.94'
RW1895 - PRW422	S 17° 08' 42" E	68.98'
PRW422 - PRW423	S 39° 53' 15" W	13.25'
PRW423 - 15221	SEE CURVE EXRW S102	
15221 - PRW411	S 1° 02' 19" W	115.38'
PRW411 - PRW412	S 43° 57' 41" E	12.86'
PRW412 - RW1334	N 88° 58' 40" W	9.09'
RW1334 - TIE52	S 87° 55' 37" W	70.46'
TIE52 - RW1702	S 87° 55' 37" W	69.75'
RW1702 - RW1894	N 1° 02' 19" E	132.01'
RW1894 - RW1717	SEE CURVE EXRW S106	
RW1717 - RW1711	N 9° 12' 57" W	67.79'
RW1711 - RW1886	SEE CURVE EXRW S109	
RW1319 - TLE920	S 1° 02' 37" W	35.03'
TLE920 - TLE398	S 14° 09' 28" E	39.99'
TLE398 - TLE397	N 89° 45' 23" E	55.36'
TLE397 - TLE396	S 0° 09' 08" E	6.00'
TLE396 - RW1895	S 89° 45' 23" W	64.09'
PRW422 - TLE906	N 89° 45' 23" E	60.32'
TLE906 - TLE905	S 0° 09' 10" E	6.95'
TLE905 - TLE395	S 89° 50' 50" W	56.68'
TLE395 - TLE394	S 6° 59' 29" E	147.18'
TLE394 - TLE919	S 1° 43' 25" E	117.22'
TLE919 - TLE393	S 1° 01' 11" W	219.82'
TLE393 - TLE392	S 88° 59' 32" E	143.38'
TLE392 - TLE391	S 1° 01' 20" W	12.02'
TLE391 - PRW412	N 88° 58' 40" W	143.93'
RW1702 - TLE461	S 89° 51' 50" W	76.57'
TLE461 - TLE462	N 0° 21' 56" W	9.89'
TLE462 - TLE463	N 89° 38' 40" E	59.04'
TLE463 - TLE464	N 0° 21' 20" W	24.36'
TLE464 - TLE465	N 1° 01' 11" E	97.85'
TLE465 - TLE466	N 0° 57' 05" W	151.83'
TLE466 - TLE467	N 89° 18' 44" W	13.03'
TLE467 - TLE468	N 5° 39' 45" W	208.11'
TLE468 - RW1717	N 85° 07' 14" E	31.44'
RW1711 - TLE469	S 79° 24' 33" W	50.80'
TLE469 - TLE904	N 10° 32' 29" W	9.68'
TLE904 - TLE470	N 75° 34' 47" E	39.75'
TLE470 - TLE471	N 11° 14' 26" W	61.76'
TLE471 - TLE521	N 15° 35' 35" W	21.15'
TLE521 - RW1886	N 89° 48' 56" E	12.76'

POINT *	STATION	OFFSET
15221	941+83.29	70.40'
PRW411	940+67.91	70.36'
PRW412	940+58.81	79.45'
PRW422	945+49.03	80.22'
PRW423	945+40.43	70.38'
RW1319	946+91.10	84.78'
RW1334	940+58.81	70.36'
RW1702	940+51.25	-69.65'
RW1711	946+27.68	-69.63'
RW1717	945+57.77	-69.62'
RW1886	947+23.46	-69.66'
RW1894	941+83.26	-69.60'
RW1895	946+15.14	70.37'
RW1896	946+24.78	70.37'
TIE52	940+55.01	0.00'
TIE84	947+08.31	0.00'
TLE391	52+23.39 CC	-32.94'
TLE392	52+23.39 CC	-44.95'
TLE393	940+70.79	80.00'
TLE394	944+00.00	85.00'

POINT *	STATION	OFFSET
TLE395	945+41.99	82.88'
TLE396	51+30.00 C	-32.93'
TLE397	51+30.00 C	-38.93'
TLE398	946+19.46	79.98'
TLE461	48+54.49 CD	-30.11'
TLE462	48+54.49 CD	-40.00'
TLE463	940+61.01	-87.42'
TLE464	940+85.36	-88.00'
TLE465	941+83.21	-88.00'
TLE466	943+41.12	-88.00'
TLE467	943+41.98	-101.00'
TLE468	945+59.75	-101.00'
TLE469	946+27.20	-120.44'
TLE470	946+40.37	-80.85'
TLE471	947+04.38	-80.90'
TLE521	947+26.28	-82.13'
TLE904	946+37.42	-120.50'
TLE905	51+46.39 C	40.00'
TLE906	51+46.39 C	33.05'
TLE919	942+86.92	82.43'
TLE920	946+58.04	77.33'



RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO CONSTRUCTION BY WISDOT SE REGION SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT USING THE WISCORS NETWORK. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. ALL DISTANCES ARE GROUND.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 11138616.

This is a copy. The original is at the ROD office

N

SCALE, FEET
0 50 100

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.11 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather Bartelt DATE 9/01/21
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) Robert L Dufeck DATE 09/01/21
(PRINTED NAME) Robert L. Dufeck

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.11
AMENDMENT NO: 1

09/13/2021
Doc # 11162021

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.11

PART OF PARCEL 1 OF CSM 2617; AND PART OF LOT 1 OF BLOCK 2 OF THE PLAT OF WHITNALL SLOPES; AND PART OF THE WOODLAND PRAIRIE CONDOMINIUMS; ALL IN THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 5, CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
72	WHITNALL POINTE DELAWARE BUSINESS TRUST	TLE	--	--	--	0.23 AC
76	RAFAEL & GLORIA E. CRUZ	FEE,TLE	111 SF	--	111 SF	0.17 AC
77	WOODLAND PRAIRIE CONDOMINIUMS *	FEE,TLE	21 SF	--	21 SF	0.18 AC
78	TEDDY J. KNIPRATH, SR	TLE	--	--	--	0.05 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
204	CITY OF FRANKLIN WATER UTILITY	RELEASE OF RIGHTS

* (RICK & RON DEVELOPMENT, LLC)

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1(18)/ 2040-3-21	1968	VARIES
S. PRAIRIEWOOD DRIVE	WOODLAND PRARIE CONDOMINIUMS	2009	66'
CORTEZ CIR.	PLAT OF WHITNALL SLOPES	--	66'

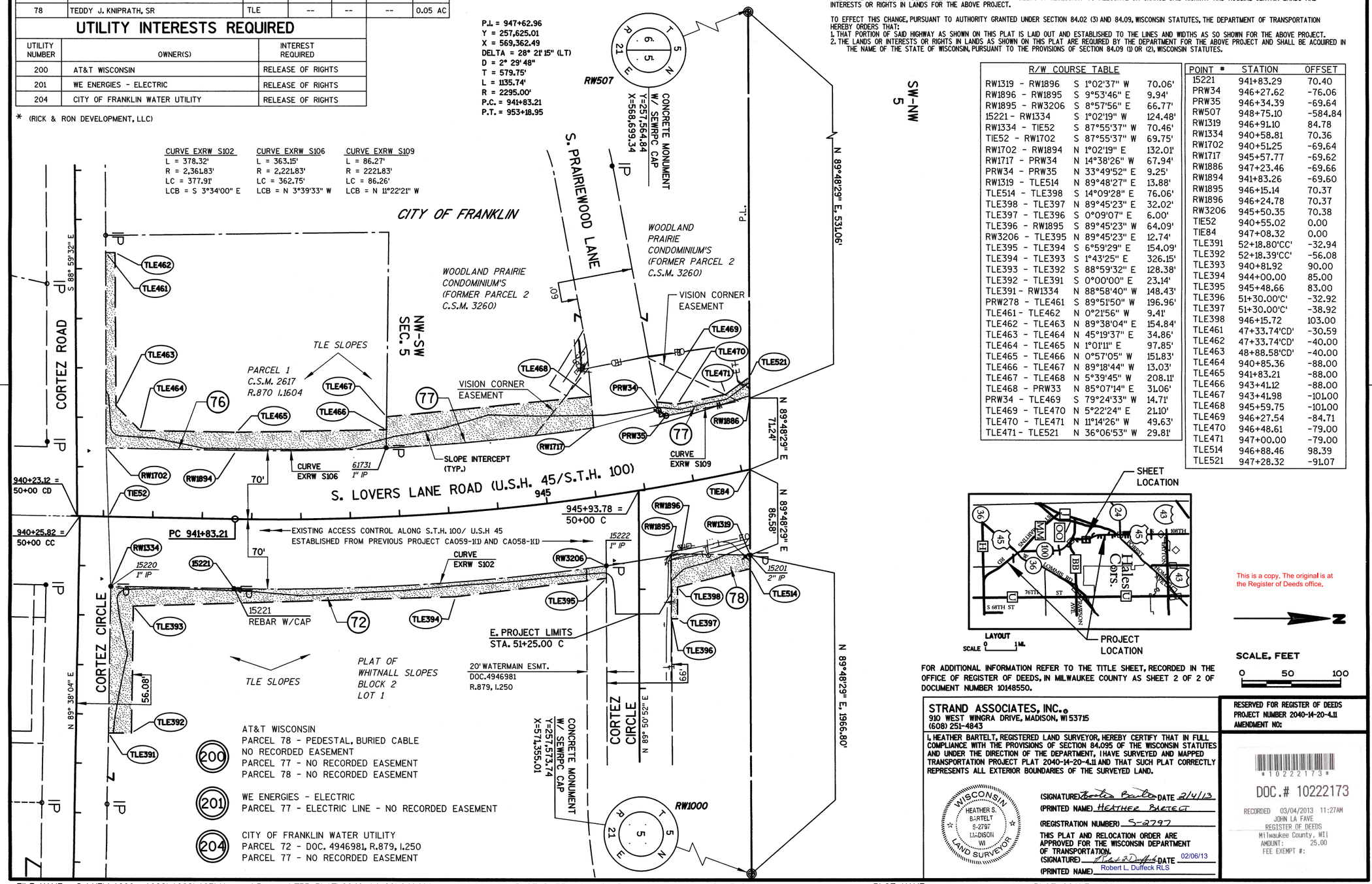
EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45 ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1) AND CA058-1(1)

P.I. = 947+62.96
Y = 257,625.01
X = 569,362.49
DELTA = 28° 21' 15" (LT)
D = 2° 29' 48"
T = 579.75'
L = 1135.74'
R = 2295.00'
P.C. = 941+83.21
P.T. = 953+18.95

CURVE EXRW S102
L = 378.32'
R = 2,361.83'
LC = 377.91'
LCB = S 3°34'00" E

CURVE EXRW S106
L = 363.15'
R = 2,221.83'
LC = 362.75'
LCB = N 3°39'33" W

CURVE EXRW S109
L = 86.27'
R = 2221.83'
LC = 86.26'
LCB = N 11°22'21" W



POINT #	STATION	OFFSET
15221	941+83.29	70.40
PRW34	946+27.62	-76.06
PRW35	946+34.39	-69.64
RW507	948+75.10	-584.84
RW1319	946+91.10	84.78
RW1334	940+58.81	70.36
RW1702	940+51.25	-69.64
RW1717	945+57.77	-69.62
RW1886	947+23.46	-69.66
RW1894	941+83.26	-69.60
RW1895	946+15.14	70.37
RW1896	946+24.78	70.37
RW3206	945+50.35	70.38
TIE52	940+55.02	0.00
TIE84	947+08.32	0.00
TLE391	52+18.80'CC'	-32.94
TLE392	52+18.39'CC'	-56.08
TLE393	940+81.92	90.00
TLE394	944+00.00	85.00
TLE395	945+48.66	83.00
TLE396	51+30.00'C'	-32.92
TLE397	51+30.00'C'	-38.92
TLE398	946+15.72	103.00
TLE461	47+33.74'CD'	-30.59
TLE462	47+33.74'CD'	-40.00
TLE463	48+88.58'CD'	-40.00
TLE464	940+85.36	-88.00
TLE465	941+83.21	-88.00
TLE466	943+41.12	-88.00
TLE467	943+41.98	-101.00
TLE468	945+59.75	-101.00
TLE469	946+27.54	-84.71
TLE470	946+48.61	-79.00
TLE471	947+00.00	-79.00
TLE514	946+88.46	98.39
TLE521	947+28.32	-91.07

R/W COURSE TABLE			
RW1319 - RW1896	S	1°02'37" W	70.06'
RW1896 - RW1895	S	9°53'46" E	9.94'
RW1895 - RW3206	S	8°57'56" E	66.77'
15221 - RW1334	S	1°02'19" W	124.48'
RW1334 - TIE52	S	87°55'37" W	70.46'
TIE52 - RW1702	S	87°55'37" W	69.75'
RW1702 - RW1894	N	1°02'19" E	132.01'
RW1717 - PRW34	N	14°38'26" W	67.94'
PRW34 - PRW35	N	33°49'52" E	9.25'
RW1319 - TLE514	N	89°48'27" E	13.88'
TLE514 - TLE398	S	14°09'28" E	76.06'
TLE398 - TLE397	N	89°45'23" E	32.02'
TLE397 - TLE396	S	0°09'07" E	6.00'
TLE396 - RW1895	S	89°45'23" W	64.09'
RW3206 - TLE395	N	89°45'23" E	12.74'
TLE395 - TLE394	S	6°59'29" E	154.09'
TLE394 - TLE393	S	1°43'25" E	326.15'
TLE393 - TLE392	S	88°59'32" E	128.38'
TLE392 - TLE391	S	0°00'00" E	23.14'
TLE391 - RW1334	N	88°58'40" W	148.43'
PRW278 - TLE461	S	89°51'50" W	196.96'
TLE461 - TLE462	N	0°21'56" W	9.41'
TLE462 - TLE463	N	89°38'04" E	154.84'
TLE463 - TLE464	N	45°19'37" E	34.86'
TLE464 - TLE465	N	1°01'11" E	97.85'
TLE465 - TLE466	N	0°57'05" W	151.83'
TLE466 - TLE467	N	89°18'44" W	13.03'
TLE467 - TLE468	N	5°39'45" W	208.11'
TLE468 - PRW33	N	85°07'14" E	31.06'
PRW34 - TLE469	S	79°24'33" W	14.71'
TLE469 - TLE470	N	5°22'24" E	21.10'
TLE470 - TLE471	N	11°14'26" W	49.63'
TLE471 - TLE521	N	36°06'53" W	29.81'

AT&T WISCONSIN
PARCEL 78 - PEDESTAL, BURIED CABLE
NO RECORDED EASEMENT
PARCEL 77 - NO RECORDED EASEMENT
PARCEL 78 - NO RECORDED EASEMENT

WE ENERGIES - ELECTRIC
PARCEL 77 - ELECTRIC LINE - NO RECORDED EASEMENT

CITY OF FRANKLIN WATER UTILITY
PARCEL 72 - DOC. 4946981, R.879, I.250
PARCEL 77 - NO RECORDED EASEMENT

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 10148550.

This is a copy. The original is at the Register of Deeds office.

SCALE, FEET
0 50 100

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.11 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) DATE 2/4/13
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) DATE 02/06/13
(PRINTED NAME) Robert L. Dufteck RLS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.11
AMENDMENT NO:

DOC.# 10222173
RECORDED 03/04/2013 11:27AM
JOHN LA FAVE
REGISTER OF DEEDS
Milwaukee County, WI
AMOUNT: 25.00
FEE EXEMPT #:

FILE NAME : S:\MIL\1000--1099\1089\183\Micros\Design\TPP PLAT\2040-14-20\040411_rp.dgn PLOT DATE : 2/4/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

CONST. 2040-14-70 USH 45/STH 100 R/W 2040-14-20 - 4.11

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.12 AMENDMENT NO. 1

AMENDS PARCELS 80, 81, AND 82 AND AMENDS UTILITY 200, 201, & 202 AND REMOVES UTILITY 204 OF TRANSPORTATION PROJECT PLAT 2040-14-20-4.12 RECORDED AS DOCUMENT NO. 10222174 AT THE MILWAUKEE COUNTY REGISTER OF DEEDS.

PART OF PARCEL 2 OF CSM 5375, AND PART OF LOT 1 OF MANCHESTER OAKS, AND PART OF LOT 3 OF CSM 7699, AND PART OF LOT 4 OF CSM 7721, ALL IN THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 5 CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 LOVER'S LANE, CITY OF FRANKLIN
ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUB-SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
79	MANCHESTER OAKS APARTMENTS LLC.	FEE,TLE	150 SF	--	150 SF	0.30 AC
80	MENARD, INC	FEE,TLE	24 SF	--	24 SF	0.14 AC
81	WAUWATOSA SAVINGS BANK	FEE,TLE	0.04 AC	--	0.04 AC	0.04 AC
82	HARTLAND MEADOWS, LLC	FEE,TLE	1435 SF	--	1435 SF	0.16 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTERESTS REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	CITY OF FRANKLIN SANITARY SEWER	RELEASE OF RIGHTS
204	ELIMINATED	---

POINT #	STATION	OFFSET
PRW36	951+20.40	-69.80'
PRW37	951+41.98	-74.40'
PRW262	952+24.29	84.81'
PRW263	952+47.88	70.13'
PRW274	953+18.76	-82.00'
PRW275	952+72.90	-100.60'
PRW276	952+44.62	-132.96'
PRW317	951+72.87	-113.97'
PRW318	951+72.00	-109.40'
PRW340	954+00.00	-82.00'
PRW369	951+43.82	84.35'
PRW370	951+16.30	70.20'
PRW418	953+40.00	70.04'
PRW419	953+40.00	73.00'
PRW420	953+10.00	73.02'
PRW421	953+10.00	70.09'
RW1283	946+89.06	95.26'
RW1323	947+50.83	70.33'
RW1886	947+23.46	-69.66'
RW3226	954+00.00	69.92'
TIE53	954+00.00	0.00'
TIE84	947+08.31	0.00'

POINT #	STATION	OFFSET
TIE95	48+76.22 SD	0.00'
TLE399	951+41.03	102.71'
TLE400	951+52.44	183.71'
TLE401	954+00.00	88.00'
TLE472	947+58.10	-83.55'
TLE473	948+50.00	-79.00'
TLE474	951+03.58	-79.00'
TLE475	951+65.75	-118.93'
TLE476	48+40.00 SD	39.00'
TLE477	48+40.00 SD	33.05'
TLE478	48+48.22 SD	-32.95'
TLE479	953+00.00	-90.92'
TLE514	946+88.45	98.39'
TLE521	947+26.28	-82.13'
TLE754	954+00.00	-91.00'
TLE755	949+90.00	105.00'
TLE824	951+82.98	184.42'
TLE825	951+85.48	92.04'
TLE907	951+53.25	125.87'

R/W COURSE TABLE			
RW1886 - PRW36	SEE CURVE EXRW S112B		
PRW36 - PRW37	SEE CURVE PRW S112C		
PRW37 - PRW318	N	73° 49' 20" W	45.34'
PRW318 - PRW317	SEE CURVE PRW S112D		
PRW317 - TIE95	N	40° 12' 26" W	35.02'
TIE95 - PRW276	N	40° 12' 26" W	35.47'
PRW276 - PRW275	N	24° 29' 38" E	42.04'
PRW275 - PRW274	SEE CURVE PRW S113A		
PRW274 - PRW340	N	27° 20' 04" W	81.24'
RW3226 - PRW418	S	27° 27' 22" E	60.00'
PRW418 - PRW419	N	62° 39' 56" E	2.96'
PRW419 - PRW420	S	27° 20' 04" E	30.28'
PRW420 - PRW421	S	62° 53' 20" W	2.93'
PRW421 - PRW263	SEE CURVE EXRW S118		
PRW263 - PRW262	S	56° 18' 49" E	28.47'
PRW262 - PRW369	S	23° 38' 54" E	83.43'
PRW369 - PRW370	SEE CURVE PRW S79		
PRW370 - RW1323	SEE CURVE EXRW S111		
RW1323 - RW1283	S	33° 39' 35" E	68.68'
RW1886 - TLE521	S	89° 48' 56" W	12.76'
TLE521 - TLE472	N	15° 35' 35" W	30.71'
TLE472 - TLE473	N	11° 32' 32" W	88.75'
TLE473 - TLE474	N	18° 47' 32" W	244.72'
TLE474 - TLE475	N	56° 36' 01" W	71.64'
TLE475 - TLE476	S	74° 02' 23" W	48.41'
TLE476 - TLE477	N	13° 15' 16" W	5.95'
TLE477 - PRW317	SEE CURVE EXRW S112		
PRW276 - TLE478	SEE CURVE EXRW S113		
TLE478 - TLE479	N	21° 04' 02" E	74.29'
TLE479 - TLE754	N	27° 20' 04" W	99.25'
TLE754 - PRW340	N	62° 39' 56" E	9.00'
RW3226 - TLE401	N	62° 39' 56" E	18.08'
TLE401 - TLE825	S	27° 20' 04" E	219.79'
TLE825 - TLE824	N	67° 40' 24" E	92.42'
TLE824 - TLE400	S	22° 19' 36" E	33.00'
TLE400 - TLE907	S	67° 40' 24" W	57.84'
TLE907 - TLE399	S	37° 57' 16" W	26.48'
TLE399 - TLE755	S	21° 50' 11" E	157.85'
TLE755 - TLE514	S	14° 09' 28" E	314.75'
TLE514 - RW1283	S	89° 48' 29" W	3.20'

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1(18)/ 2040-3-21	1968	VARIES
SPEEDWAY DR.	C.S.M. 7435	--	66'

EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45
ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1) AND CA058-1(1)

CURVE PRW S79
L = 32.47'
R = 45.00'
LCH = 31.77'
LCB = S 3°49'15" W

CURVE EXRW S111
L = 376.66'
R = 2,361.83'
LCH = 376.26'
LCB = S 17°44'02" E

CURVE EXRW S112B
L = 384.86'
R = 2,221.83'
LCH = 384.40'
LCB = N 17°26'40" W

CURVE PRW S112D
L = 4.65'
R = 50.00'
LCH = 4.65'
LCB = S 76°33'16" W

CURVE PRW S113A
L = 49.17'
R = 60.00'
LCH = 47.80'
LCB = N 3°51'31" W

CURVE EXRW S112
L = 52.21'
R = 353.00'
LCH = 52.16'
LCB = N 72°28'37" E

CURVE PRW S112C
L = 21.57'
R = 50.00'
LCH = 21.40'
LCB = N 35°02'28" W

CURVE EXRW S113
L = 12.71'
R = 287.00'
LCH = 12.71'
LCB = S 73°57'57" W

CURVE EXRW S118
L = 64.02'
R = 2,361.83'
LCH = 64.01'
LCB = S 26°22'08" E

P.I. = 47+55.48 SD
Y = 257,934.54
X = 568,900.05
DELTA = 52° 23' 44" (LT)
D = 17° 54' 18"
T = 157.44'
L = 292.63'
R = 320.00'
P.C. = 45+98.04 SD
P.T. = 48+90.67 SD
DB = S 59°55'52" E

ALIGNMENT SUB-CURVE
STA. 48+76.22 SD TO
PT 48+90.67 SD
L = 14.45'
R = 320.00'
LCH = 14.45'
LCB = N 68°58'00" E

P.I. = 947+62.96
Y = 257,625.01
X = 569,362.49
DELTA = 28° 21' 15" (LT)
D = 2° 29' 48"
T = 579.75'
L = 1135.74'
R = 2295.00'
P.C. = 941+83.21
P.T. = 953+18.95
DB = N 1°01'11" E

ALIGNMENT SUB-CURVE
STA. 947+08.31 TO
PT 953+18.95
L = 610.64'
R = 2295.00'
LCH = 608.84'
LCB = N 19°42'44" W

CONCRETE MONUMENT
W/ SEWRPC CAP
Y=257,564.84
X=568,699.34
RW507

CONCRETE MONUMENT
W/ SEWRPC CAP
Y=257,573.74
X=571,355.01
RW1000

CITY OF FRANKLIN

SCALE, FEET
0 50 100

This is a copy.
The original is at the ROD office

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO CONSTRUCTION BY WISDOT SE REGION SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

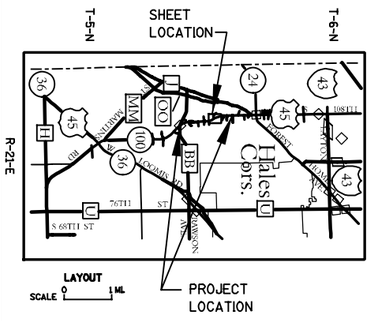
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT USING THE WISCORS NETWORK. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. ALL DISTANCES ARE GROUND.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 11138616.

(200) AT&T WISCONSIN
PARCEL 79 - DOC. 6607765, R.2775, L.921
PARCEL 80 - DOC. 8879353
PARCEL 81 - DOC. 08879353
PARCEL 82 - DOC. 6386165, R.2456, L.140
PARCEL 82 - DOC.4526075, R.531, L.1266

(201) WE ENERGIES - ELECTRIC
PARCEL 79 - DOC. 6607765, R.2775, L.921
PARCEL 79 - DOC. 6607768, R.2775, L.921-925
PARCEL 80 - DOC. 4526280, R.531, L.1611
PARCEL 80 - DOC. 08930605
PARCEL 80 - DOC. 08879353
PARCEL 81 - DOC. 9197021 (CSM 7721)
PARCEL 81 - DOC. 08879353
PARCEL 82 - DOC. 6386165, R.2456, L.140
PARCEL 82 - DOC. 10812833
PARCELS 79, 80, 81, 82
BLANKET EASEMENTS - NW1/4 SEC. 5
DOC. 1417708
DOC. 2284169, D.1674, P.419
DOC. 2957622, D.2772, P.437

(202) CITY OF FRANKLIN SANITARY SEWER
PARCEL 80 - DOC. 4526280, R.531, L.1611
PARCEL 80 - DOC. 09202813
PARCEL 81 - DOC. 09202813



STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.12 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 9/01/21
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 09/01/21
(PRINTED NAME) Robert L. Dufffeck

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-412.
AMENDMENT NO: 1

09/13/2021
Doc # 11162022

FILE NAME : S:\MIL\1000--1099\1089\919\Drawings\CAD\Micros\Plan\040412_rp AMEND1.dgn PLOT DATE : 8/31/2021 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

CONST. 2040-14-70 USH 45/STH 100 R/W 2040-14-20 - 4.12 AMENDMENT NO. 1

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.12

PART OF PARCEL 2 OF CSM 5375, AND PART OF LOT 1 OF THE PLAT OF MANCHESTER OAKS, AND PART OF LOT 3 OF CSM 7699, AND PART OF LOT 4 OF CSM 7721, ALL IN THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 5 CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
79	F.R.E.D. - GERMANTOWN LIMITED PARTNERSHIP, ETAL.	FEE,TLE	150 SF	--	150 SF	0.30 AC
80	MENARD, INC	FEE,TLE	24 SF	--	24 SF	0.16 AC
81	WAUWATOSA SAVINGS BANK	FEE,TLE	0.04 AC	--	0.04 AC	0.04 AC
82	HARTLAND MEADOWS, LLC	FEE,TLE	0.04 AC	--	0.04 AC	0.15 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	CITY OF FRANKLIN SANITARY SEWER	RELEASE OF RIGHTS
204	CITY OF FRANKLIN WATER UTILITY	RELEASE OF RIGHTS

R/W COURSE TABLE		
PRW37 - PRW318	N 73°49'20" W	45.34'
PRW317 - TIE95	N 35°06'14" W	34.05'
TIE95 - PRW276	N 35°06'14" W	34.23'
PRW276 - PRW275	N 22°24'17" E	37.84'
PRW274 - PRW340	N 27°20'04" W	88.33'
PRW341 - PRW264	S 27°20'04" E	81.85'
PRW263 - PRW262	N 67°40'23" E	11.79'
PRW262 - PRW369	S 23°38'53" E	83.43'
RW1323 - RW1283	S 33°39'35" E	68.67'
RW1886 - TLE521	S 89°48'29" W	21.91'
TLE521 - TLE472	N 36°06'53" W	22.62'
TLE472 - TLE473	N 2°03'14" W	98.36'
TLE473 - TLE474	N 18°47'32" W	244.72'
TLE474 - TLE475	N 56°36'01" W	71.64'
TLE475 - TLE476	S 74°02'23" W	48.41'
TLE476 - TLE477	N 13°15'16" W	5.94'
TLE478 - TLE479	N 21°04'02" E	74.29'
TLE479 - TLE754	N 27°20'04" W	99.25'
TLE754 - PRW340	N 62°39'56" E	9.00'
PRW341 - TLE401	N 62°39'56" E	15.00'
TLE401 - TLE825	S 27°20'04" E	219.79'
TLE825 - TLE824	N 67°40'23" E	92.42'
TLE824 - TLE400	S 22°19'36" E	33.00'
TLE400 - TLE399	S 67°40'23" W	80.72'
TLE399 - TLE755	S 21°50'11" E	170.97'
TLE755 - TLE514	S 14°09'28" E	314.75'
TLE514 - RW1283	S 89°48'27" W	3.20'

POINT #	STATION	OFFSET
PRW36	951+20.57	-70.00
PRW37	951+41.98	-74.40
PRW262	952+24.29	84.81
PRW263	952+24.82	73.03
PRW264	953+18.18	73.00
PRW274	953+11.40	-81.99
PRW275	952+70.24	-98.24
PRW276	48+69.71'SD'	-32.96
PRW317	48+87.33'SD'	33.03
PRW318	48+91.57'SD'	33.72
PRW340	954+00.00	-82.00
PRW341	954+00.00	73.00
PRW369	951+43.82	84.34
PRW370	951+16.30	70.20
RW507	948+75.10	-584.84
RW1283	946+89.07	95.26
RW1323	947+50.83	70.33
RW1886	947+23.46	-69.66
TIE53	954+00.00	0.00
TIE84	947+08.32	0.00
TIE95	48+79.46'SD'	0.00
TLE399	951+53.59	102.99
TLE400	951+52.44	183.71
TLE401	954+00.00	88.00
TLE472	947+50.00	-100.00
TLE473	948+50.00	-79.00
TLE474	951+03.58	-79.00
TLE475	951+65.75	-118.93
TLE476	48+40.00'SD'	39.00
TLE477	48+40.00'SD'	33.05
TLE478	48+48.22'SD'	-32.95
TLE479	953+00.00	-90.92
TLE514	946+88.46	98.39
TLE521	947+28.32	-91.07
TLE754	954+00.00	-91.00
TLE755	949+90.00	105.00
TLE824	951+82.98	184.42
TLE825	951+85.48	92.03

CURVE PRW S79	
L	32.47'
R	45.00'
LC	31.77'
LCB	S 3°49'15" W

CURVE EXRW S111	
L	376.66'
R	2,361.83'
LC	376.26'
LCB	S 17°44'02" E

CURVE EXRW S112B	
L	384.86'
R	2,221.83'
LC	384.40'
LCB	N 17°26'40" W

CURVE PRW S112D	
L	4.65'
R	50.00'
LC	4.65'
LCB	S 76°33'16" W

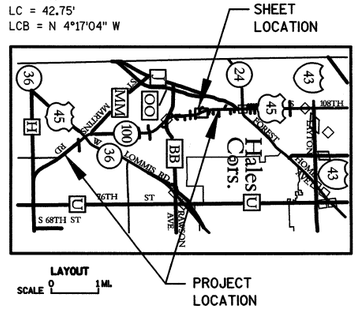
CURVE PRW S113A	
L	43.91'
R	55.00'
LC	42.75'
LCB	N 4°17'04" W

CURVE EXRW S112	
L	52.21'
R	353.00'
LC	52.16'
LCB	N 72°28'37" E

CURVE PRW S112C	
L	21.57'
R	50.00'
LC	21.40'
LCB	N 35°02'28" W

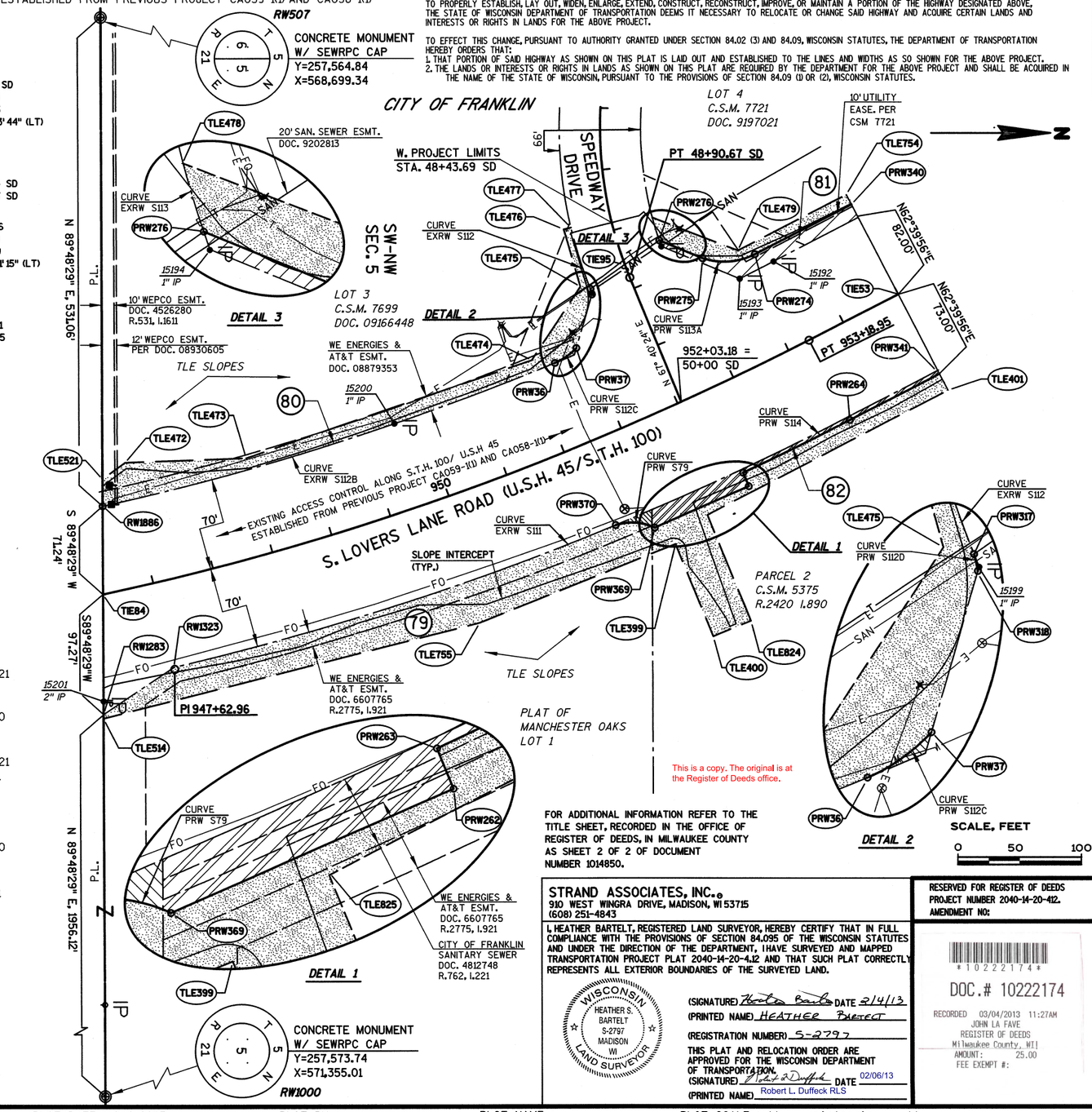
CURVE EXRW S113	
L	19.27'
R	287.00'
LC	19.27'
LCB	S 73°18'39" W

CURVE PRW S114	
L	96.33'
R	2,364.83'
LC	96.32'
LCB	S 26°10'03" E



HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1 (18)/ 2040-3-21	1968	VARIES
SPEEDWAY DR.	C.S.M. 7435	--	66'

EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45 ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1) AND CA058-1(1)



200	AT&T WISCONSIN PARCEL 79 - DOC. 6607765, R.2775, I.921 PARCEL 80 - DOC. 8879353 PARCEL 81 - DOC. 08879353 PARCEL 82 - DOC. 6386165, R.2456, I.140
201	WE ENERGIES - ELECTRIC PARCEL 79 - DOC. 6607765, R.2775, I.921 PARCEL 80 - DOC. 4526280, R.531, I.1611 PARCEL 80 - DOC. 08930605 PARCEL 80 - DOC. 08879353 PARCEL 81 - ELECTRIC LINE,1 PEDESTAL - NO RECORDED EASEMENT PARCEL 82 - DOC. 6386165, R.2456, I.140
202	CITY OF FRANKLIN SANITARY SEWER PARCEL 80 - DOC. 4526280, R.531, I.1611 PARCEL 80 - DOC. 09202813 PARCEL 81 - DOC. 09202813 PARCEL 82 - 4812748, R.762, I.221
204	CITY OF FRANKLIN WATER UTILITY PARCEL 80 - NO RECORDED EASEMENT

This is a copy. The original is at the Register of Deeds office.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 1014850.

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.12 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 2/4/13
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 02/06/13
(PRINTED NAME) Robert L. Dufleck RLS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-412.
AMENDMENT NO:

DOC.# 10222174
RECORDED 03/04/2013 11:27AM
JOHN LA FAVE
REGISTER OF DEEDS
Milwaukee County, WI
AMOUNT: 25.00
FEE EXEMPT #:

FILE NAME : S:\MIL\1000--1099\1089\183\Micros\Design\TPP PLAT\2040-14-20\040412_rp.dgn PLOT DATE : 2/4/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

CONST. 2040-14-70 USH 45/STH 100 R/W 2040-14-20 - 4.12

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.13 AMENDMENT NO. 2

AMENDS PARCELS 82 & 84, ADDS PARCELS 182 & 184 AND ALSO AMENDS UTILITY NUMBERS 200, 201 & 202 OF TRANSPORTATION PROJECT PLAT 2040-14-20-4.13 AMENDMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 11162023 AT THE MILWAUKEE COUNTY REGISTER OF DEEDS.

PART OF LOT 4 OF CSM 7721, AND PART OF LOTS 1 & 2 OF CSM 8519 AND PART OF PARCELS 1 AND 2 OF CSM 5375, LOCATED IN THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4; AND PART OF LOT 1 OF CSM 8425 AND PART OF PARCEL 1 OF CSM 5375 LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 ALL IN SECTION 5; AND PART LOTS 1 & 2 OF CSM 8705 LOCATED IN THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 6; ALL IN THE CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 LOVER'S LANE, CITY OF FRANKLIN
ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUB-SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
81	WAUWATOSA SAVINGS BANK	FEE,TLE	0.04 AC	--	0.04 AC	0.03 AC
82	HARTLAND MEADOWS, LLC	TLE	--	--	--	0.24 AC
83	WEST SPEEDWAY LLC	TLE	--	--	--	0.05 AC
84	HILLER FORD, INC & DEALERSHIP PROPERTIES, INC.	TLE	--	--	--	0.14 AC
85	ELIMINATED	--	--	--	--	--
86	BOUCHER HOLDINGS, LLC	TLE	--	--	--	0.14 AC
182	HARTLAND MEADOWS, LLC	TLE	--	--	--	0.14 AC
183	CONVENIENCE STORE INVESTMENTS	FEE,TLE	0.01 AC	--	0.01 AC	0.08 AC
184	HILLER FORD, INC & DEALERSHIP PROPERTIES, INC.	TLE	--	--	--	0.02 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTERESTS REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	CITY OF FRANKLIN SANITARY SEWER	RELEASE OF RIGHTS
203	TIME WARNER CABLE	RELEASE OF RIGHTS
204	CITY OF FRANKLIN WATER UTILITY	RELEASE OF RIGHTS
209	WE ENERGIES - GAS	RELEASE OF RIGHTS

CURVE EXRW 38
L = 334.08'
R = 2,221.83'
LCH = 333.77'
LCB = S 3°26'28" E

CURVE EXRW S115
L = 366.93'
R = 2,361.83'
LCH = 366.67'
LCB = N 20°46'09" W

CURVE EXRW S117A
L = 423.29'
R = 2,361.83'
LCH = 422.73'
LCB = N 4°06'00" W

CURVE EXRW S122
L = 682.59'
R = 2,221.83'
LCH = 679.90'
LCB = S 18°38'35" E

P.I. = 961+17.85
Y = 258,849.71
X = 568,729.44
DELTA = 28°21'32" (RT)
D = 2°29'48"
T = 579.85'
L = 1,135.93'
R = 2,295.00'
P.C. = 955+38.00
P.T. = 966+73.93

R/W COURSE TABLE

RW1273 - RW1890	N 1° 00' 11" E	124.04'
RW1890 - TIE54	N 1° 00' 11" E	632.72'
RW1890 - RW4016	N 88° 59' 33" W	24.75'
RW4016 - RW1303	N 1° 00' 11" E	184.74'
RW1303 - RW1880	SEE CURVE EXRW S117A	
RW1880 - RW3227	N 1° 00' 11" E	26.95'
RW3227 - TIE54	S 88° 58' 32" E	62.35'
TIE54 - TIE55	S 88° 58' 32" E	7.83'
TIE55 - RW1296	S 63° 21' 37" E	77.45'
RW1296 - RW1306	SEE CURVE EXRW 38	
RW1306 - RW1325	S 8° 47' 43" E	81.16'
RW1325 - RW1887	SEE CURVE EXRW S122	
RW1887 - RW3226	S 27° 27' 22" E	134.21'
RW3226 - TIE53	S 62° 39' 56" W	69.92'
TIE53 - PRW340	S 62° 39' 56" W	82.00'
PRW340 - PRW413	N 27° 20' 04" W	131.05'
PRW413 - PRW39	N 19° 22' 04" W	95.49'
PRW39 - RW1898	SEE CURVE EXRW S115	
RW1898 - RW1273	S 61° 28' 27" W	51.44'

R/W COURSE TABLE

RW4016 - TLE483	N 1° 00' 11" E	100.12'
TLE483 - TLE488	N 13° 05' 27" W	98.42'
TLE488 - TLE489	N 6° 13' 38" W	60.29'
TLE489 - TLE490	N 9° 30' 41" E	35.10'
TLE490 - TLE491	N 4° 54' 52" W	241.20'
TLE491 - TLE492	N 1° 31' 51" W	72.53'
TLE492 - TLE758	N 1° 01' 28" E	30.27'
TLE758 - RW3227	S 88° 58' 32" E	16.82'
RW1296 - TLE409	N 89° 28' 01" E	15.80'
TLE409 - TLE406	S 2° 34' 59" E	312.88'
TLE406 - TLE405	S 39° 44' 28" E	27.61'
TLE405 - RW1306	N 88° 59' 38" W	27.52'
RW1325 - TLE404	S 88° 58' 34" E	28.87'
TLE404 - TLE403	S 3° 48' 56" E	79.64'
TLE403 - TLE759	S 15° 12' 22" E	288.49'
TLE759 - TLE402	S 24° 00' 41" E	300.03'
TLE402 - TLE401	S 27° 20' 04" E	138.00'
TLE401 - RW3226	S 62° 39' 56" W	18.08'
PRW340 - TLE754	S 62° 39' 56" W	9.00'
TLE754 - TLE480	N 27° 20' 04" W	140.08'
TLE480 - TLE756	N 22° 06' 58" W	347.58'
TLE756 - TLE554	N 16° 33' 56" W	105.13'
TLE554 - RW1898	S 61° 28' 27" W	12.89'

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1(18)/ 2040-3-21 DOC. NO. 4466432	1968	140'
WHITNALL EDGE ROAD	PLAT OF WHITNALL EDGE	1978	80'
WHITNALL EDGE DRIVE	CITY OF FRANKLIN RESOLUTION DOC. NO. 5419093	1980	60'
VENTURE DR.	C.S.M. 4834	1986	60'

CURVE EXRW 38
L = 334.08'
R = 2,221.83'
LCH = 333.77'
LCB = S 3°26'28" E

DETAIL 1

201 WE ENERGIES - ELECTRIC
PARCEL 82 - DOC. 6386165, R.2456, I.140
PARCEL 82 - DOC. 5477523
PARCEL 84 - DOC. 3537762
PARCEL 86 - DOC. 5349867, DOC. 8288428, DOC. 6549838
PARCELS 82, 182 & 86 - BLANKET EASEMENTS
DOC. 2284169, DOC. 2639238, DOC. 2957622, DOC. 2187019, DOC. 1417708
PARCELS 81, 83, 183
BLANKET EASEMENTS
PARCEL 183 - DOC. 10274763

202 CITY OF FRANKLIN SANITARY SEWER
PARCEL 182 - DOC. 4812748, R.762, I.221
PARCEL 83 - DOC. 9202813
PARCEL 86 - DOC. 4826386, DOC. 4826392

204 CITY OF FRANKLIN WATER UTILITY
PARCEL 83 - DOC. 09197021
DOC. 08948225

209 WE ENERGIES - GAS
PARCEL 83 - NO RECORDED EASEMENT
PARCEL 84 - DOC. 3604487

200 AT&T WISCONSIN
PARCELS 82 & 182 - DOC. 6386165, DOC. 5477523
PARCEL 84 - DOC. 3537762
PARCEL 86 - DOC. 8288428, DOC. 5349867
PARCEL 184 - DOC. 3685856

203 TIME WARNER CABLE
PARCEL 86 - DOC. 8288428

CITY OF FRANKLIN
LOT 2
C.S.M. 8705
DOC. 10475730

DISCONTINUED AND VACATED
WHITNALL EDGE DRIVE
RESOLUTION 2015-7073
DOC.10455601
UTILITY EASEMENTS RETAINED

LOT 1
C.S.M. 8705
DOC. 10475730

WE ENERGIES & AT&T
EASEMENT
DOC.3537762,
D.3640, P.169

WE ENERGIES - GAS
EASEMENT
DOC.3604487,
D.3737, P.62

CONCRETE MONUMENT W/ SEWRPC CAP
Y = 260,077.00
X = 568,743.32

RW525

LOT 2
CSM 8519
DOC. 10219102
(FORMERLY LOT 2
C.S.M. 7721)

LOT 1
C.S.M. 7721

TLE SLOPES

SE-NE SEC. 6

NE-NE SEC. 6

1/16TH LINE

20' WATERMAIN EASEMENT PER DOC. 08948225

12' WE ENERGIES-ELEC. EASEMENT DOC.10274763

20' SANITARY SEWER EASEMENT PER DOC. 08948225

P.I. = 961+17.85

N 1°00'11" E, 1,134.37'

N 1°01'28" E, 621.41'

CURVE EXRW S117A

CURVE EXRW 38

CURVE EXRW S115

CURVE EXRW S122

PT 966+73.92

20' SANITARY SEWER EASEMENT DOC.4826386, R.773, I.1280

20' SANITARY SEWER EASEMENT DOC.4826392, R.773, I.1300

DETAIL 1

CONCRETE MONUMENT W/ SEWRPC CAP
Y = 257,564.84
X = 568,699.34

RW507
LOT 4
C.S.M. 7721
DOC. NO. 9197021

20' SAN. SEWER ESMT. DOC. 09202813

EXISTING ACCESS CONTROL ALONG S.T.H. 100/U.S.H. 45 ESTABLISHED FROM PREVIOUS PROJECT CA 059-1(1) AND CA 058-1(1).

S. LOVERS LANE ROAD (U.S.H. 45/S.T.H. 100)

PC 955+38.00

N 27°20'04" W

SLOPE INTERCEPT (TYP.)

WE ENERGIES & AT&T ESMT. DOC. 6386165

CITY OF FRANKLIN SANITARY SEWER DOC. 4812748 R.762, I.221

PARCEL 2
C.S.M. 5375
R.2420 I.890

PARCEL 1
C.S.M. 5375
R.2420 I.890

WE ENERGIES & AT&T EASEMENT DOC.5477523, R.1377, L.1061-1063

SW-NW SEC. 5

NW-NW SEC. 5

WHITNALL EDGE RD.

VENTURE DR.

VISION CORNER PER CSM 8425

TLE SLOPES

EXISTING ACCESS CONTROL ALONG S.T.H. 100/U.S.H. 45 ESTABLISHED FROM PLAT OF WHITNALL EDGE (PARCEL 86)

20' DRAINAGE EASEMENT PER PLAT OF WHITNALL EDGE

LOT 1
CSM 8425
DOC. 10087925
(FORMERLY LOTS 1 & 2 PLAT OF WHTNALL EDGE)

WE ENERGIES & AT&T-WISCONSIN DOC.5349867, R.1244, I.111-114

6' UTILITY EASEMENT PER PLAT OF WHITNALL EDGE

15' WE ENERGIES, AT&T-WISCONSIN, TIME WARNER EASEMENT DOC.8288428

12' WE ENERGIES DOC.5549838 R.2670, I.234

SCALE, FEET
0 50 100

SEE 2040-14-20-4.12 AMENDMENT NO. 1

SEE 2040-14-20-4.14 AMENDMENT NO. 1

POINT #	STATION	OFFSET
PRW39	956+23.02	-70.39'
PRW340	954+00.00	-82.00'
PRW413	955+31.04	-82.00'
RW1273	959+68.71	-120.70'
RW1296	966+66.28	69.83'
RW1303	962+62.36	-70.34'
RW1306	963+21.73	69.68'
RW1325	962+38.03	69.65'
RW1880	966+73.08	-70.17'
RW1887	955+34.21	69.63'
RW1890	960+82.72	-86.16'
RW1898	959+79.03	-70.40'
RW3226	954+00.00	69.92'
RW3227	967+00.00	-70.18'
RW4016	960+88.73	-110.11'
TIE53	954+00.00	0.00'
TIE54	967+00.00	-7.83'
TIE55	967+00.00	0.00'
TLE401	954+00.00	88.00'

POINT #	STATION	OFFSET
TLE402	955+38.00	88.00'
TLE403	961+49.98	88.00'
TLE404	962+32.33	98.00'
TLE405	963+17.35	96.87'
TLE406	963+41.67	82.17'
TLE409	966+66.67	85.62'
TLE480	955+40.01	-91.00'
TLE483	961+82.11	-86.86'
TLE488	962+76.72	-92.04'
TLE489	963+34.67	-90.00'
TLE490	963+67.12	-80.00'
TLE491	966+00.00	-85.00'
TLE492	966+69.89	-87.00'
TLE554	959+76.40	-83.00'
TLE754	954+00.00	-91.00'
TLE756	958+75.00	-85.00'
TLE758	967+00.00	-87.00'
TLE759	958+50.00	85.00'

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO CONSTRUCTION BY WISDOT SE REGION SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT USING THE WISCORS NETWORK. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. ALL DISTANCES ARE GROUND.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 11138616.

EXISTING ACCESS CONTROL ALONG S.T.H. 100/U.S.H. 45 ESTABLISHED FROM PREVIOUS PROJECT CA 059-1(1) AND CA 058-1(1) AND PLAT OF WHITNALL EDGE

SHEET LOCATION

PROJECT LOCATION

LAYOUT
SCALE 0 1 MI

STRAND ASSOCIATES, INC.
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

This is a copy. The original is at the ROD office

I, HEATHER BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.13 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 3/9/22
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 03/12/22
(PRINTED NAME) Robert L. Dufffeck

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.13
AMENDMENT NO: 2

DOC # 11229112
RECORDED:
03/21/2022 02:54 PM
ISRAEL RAMON
REGISTER OF DEEDS
MILWAUKEE COUNTY, WI
AMOUNT: 25.00

FILE NAME : S:\MIL\1000--1099\1089\919\Drawings\CAD\Micros\Plan\040413_rp AMEND2.dgn PLOT DATE : 3/9/2022 PLOT BY : _username_ PLOT NAME : CONST. 2040-14-70 USH 45/STH 100 PLOT SCALE : $$.....plotscale.....$$ R/W 2040-14-20 - 4.13 AMENDMENT NO. 2

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.13
AMENDMENT NO. 1

This is a copy. The original is at the ROD office

AMENDS PARCELS 81, 82, 83, 84, & 86 REMOVES PARCEL 85, ADDS PARCEL 183, AND ALSO AMENDS UTILITY NUMBERS 200, 201, 202, 203, 204, 209 OF TRANSPORTATION PROJECT PLAT 2040-14-20-4.13 RECORDED AS DOCUMENT NO. 10222175 AT THE MILWAUKEE COUNTY REGISTER OF DEEDS.

PART OF LOT 4 OF CSM 7721, AND PART OF LOTS 1 & 2 OF CSM 8519 AND PART OF PARCELS 1 AND 2 OF CSM 5375, LOCATED IN THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4; AND PART OF LOT 1 OF CSM 8425 AND PART OF PARCEL 1 OF CSM 5375 LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 ALL IN SECTION 5; AND PART LOTS 1 & 2 OF CSM 8705 LOCATED IN THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 6; ALL IN THE CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 LOVER'S LANE, CITY OF FRANKLIN
ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUB-SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
81	WAUWATOSA SAVINGS BANK	FEE,TLE	0.04 AC	--	0.04 AC	0.03 AC
82	HARTLAND MEADOWS, LLC	TLE	--	--	--	0.38 AC
83	WEST SPEEDWAY LLC	TLE	--	--	--	0.05 AC
84	HILLER FORD, INC & DEALERSHIP PROPERTIES, INC.	TLE	--	--	--	0.16 AC
85	ELIMINATED	--	--	--	--	--
86	BOUCHER HOLDINGS, LLC	TLE	--	--	--	0.14 AC
183	CONVENIENCE STORE INVESTMENTS	FEE,TLE	0.01 AC	--	0.01 AC	0.08 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTERESTS REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	CITY OF FRANKLIN SANITARY SEWER	RELEASE OF RIGHTS
203	TIME WARNER CABLE	RELEASE OF RIGHTS
204	CITY OF FRANKLIN WATER UTILITY	RELEASE OF RIGHTS
209	WE ENERGIES - GAS	RELEASE OF RIGHTS

200 AT&T WISCONSIN
PARCELS 81, 83, 183 - DOC. 08879353
PARCEL 82 - DOC. 6386165, DOC. 5477523
PARCEL 84 - DOC. 3537762, DOC. 3685856
PARCEL 86 - DOC. 8288428, DOC. 5349867

203 TIME WARNER CABLE
PARCEL 86 - DOC. 8288428

201 WE ENERGIES - ELECTRIC
PARCELS 81, 83, 183 - 08879353
PARCEL 82 - DOC. 6386165, R.2456, I.140
PARCEL 82 - DOC. 5477523
PARCEL 84 - DOC. 3537762
PARCEL 86 - DOC. 5349867, DOC. 8288428, DOC. 6549838
PARCELS 82 & 86 - BLANKET EASEMENTS
DOC. 2284169, DOC. 2639238, DOC. 2957622, DOC. 2187019, DOC. 1417708
PARCELS 81, 82, 83, 183
BLANKET EASEMENTS
DOC. 1417708, DOC. 2284169, DOC. 2957622
PARCEL 183 - DOC. 10274763

202 CITY OF FRANKLIN SANITARY SEWER
PARCEL 82 - DOC. 4812748, R.762, I.221
PARCEL 83 - DOC. 9202813
PARCEL 86 - DOC. 4826386, DOC. 4826392

204 CITY OF FRANKLIN WATER UTILITY
PARCEL 83 - CSM 7721, DOC. 09197021
DOC. 08948225

209 WE ENERGIES - GAS
PARCEL 83 - NO RECORDED EASEMENT
PARCEL 84 - DOC. 3604487

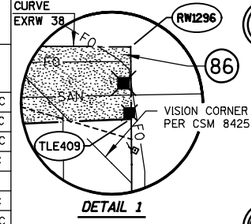
CURVE EXRW 38
L = 334.08'
R = 2,221.83'
LCH = 333.77'
LCB = S 3°26'28" E

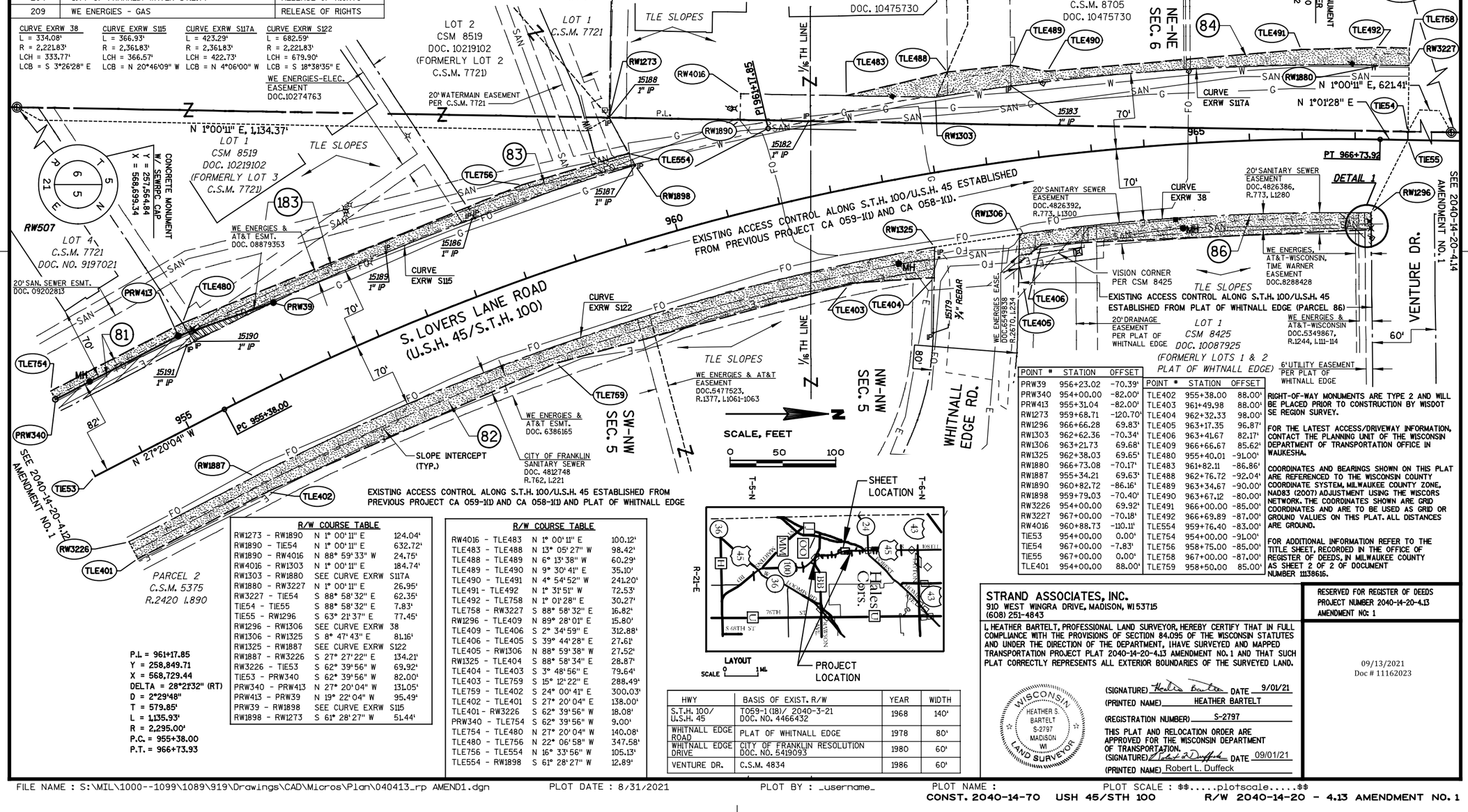
CURVE EXRW S115
L = 366.93'
R = 2,361.83'
LCH = 366.57'
LCB = N 20°46'09" W

CURVE EXRW S117A
L = 423.29'
R = 2,361.83'
LCH = 422.73'
LCB = N 4°06'00" W

CURVE EXRW S122
L = 682.59'
R = 2,221.83'
LCH = 679.90'
LCB = S 18°38'35" E

WE ENERGIES-ELEC. EASEMENT DOC.10274763





POINT #	STATION	OFFSET
PRW39	956+23.02	-70.39'
PRW340	954+00.00	-82.00'
PRW413	955+31.04	-82.00'
RW1273	959+68.71	-120.70'
RW1296	966+66.28	69.83'
RW1303	962+62.36	-70.34'
RW1306	963+21.73	69.68'
RW1325	962+38.03	69.65'
RW1880	966+73.08	-70.17'
RW1887	955+34.21	69.63'
RW1890	960+82.72	-86.16'
RW1898	959+79.03	-70.40'
RW3226	954+00.00	69.92'
RW3227	967+00.00	-70.18'
RW4016	960+88.73	-110.11'
TIE53	954+00.00	0.00'
TIE54	967+00.00	-7.83'
TIE55	967+00.00	0.00'
TLE401	954+00.00	88.00'

POINT #	STATION	OFFSET
TLE402	955+38.00	88.00'
TLE403	961+49.98	88.00'
TLE404	962+32.33	98.00'
TLE405	963+17.35	96.87'
TLE406	963+41.67	82.17'
TLE409	966+66.67	85.62'
TLE480	955+40.01	-91.00'
TLE483	961+82.11	-86.86'
TLE488	962+76.72	-92.04'
TLE489	963+34.67	-90.00'
TLE490	963+67.12	-80.00'
TLE491	966+00.00	-85.00'
TLE492	966+69.89	-87.00'
TLE554	959+76.40	-83.00'
TLE754	954+00.00	-91.00'
TLE756	958+75.00	-85.00'
TLE758	967+00.00	-87.00'
TLE759	958+50.00	85.00'

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO CONSTRUCTION BY WISDOT SE REGION SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT USING THE WISCORS NETWORK. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. ALL DISTANCES ARE GROUND.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 11138616.

R/W COURSE TABLE		
RW1273 - RW1890	N 1° 00' 11" E	124.04'
RW1890 - TIE54	N 1° 00' 11" E	632.72'
RW1890 - RW4016	N 88° 59' 33" W	24.75'
RW4016 - RW1303	N 1° 00' 11" E	184.74'
RW1303 - RW1880	SEE CURVE EXRW S117A	
RW1880 - RW3227	N 1° 00' 11" E	26.95'
RW3227 - TIE54	S 88° 58' 32" E	62.35'
TIE54 - TIE55	S 88° 58' 32" E	7.83'
TIE55 - RW1296	S 63° 21' 37" E	77.45'
RW1296 - RW1306	SEE CURVE EXRW 38	
RW1306 - RW1325	S 8° 47' 43" E	81.16'
RW1325 - RW1887	SEE CURVE EXRW S122	
RW1887 - RW3226	S 27° 27' 22" E	134.21'
RW3226 - TIE53	S 62° 39' 56" W	69.92'
TIE53 - PRW340	S 62° 39' 56" W	82.00'
PRW340 - PRW413	N 27° 20' 04" W	131.05'
PRW413 - PRW39	N 19° 22' 04" W	95.49'
PRW39 - RW1898	SEE CURVE EXRW S115	
RW1898 - RW1273	S 61° 28' 27" W	51.44'

R/W COURSE TABLE		
RW4016 - TLE483	N 1° 00' 11" E	100.12'
TLE483 - TLE488	N 13° 05' 27" W	98.42'
TLE488 - TLE489	N 6° 13' 38" W	60.29'
TLE489 - TLE490	N 9° 30' 41" E	35.10'
TLE490 - TLE491	N 4° 54' 52" W	241.20'
TLE491 - TLE492	N 1° 31' 51" W	72.53'
TLE492 - TLE758	N 1° 01' 28" E	30.27'
TLE758 - RW3227	S 88° 58' 32" E	16.82'
RW1296 - TLE409	N 89° 28' 01" E	15.80'
TLE409 - TLE406	S 2° 34' 59" E	312.88'
TLE406 - TLE405	S 39° 44' 28" E	27.61'
TLE405 - RW1306	N 88° 59' 38" W	27.52'
RW1325 - TLE404	S 88° 58' 34" E	28.87'
TLE404 - TLE403	S 3° 48' 56" E	79.64'
TLE403 - TLE759	S 15° 12' 22" E	288.49'
TLE759 - TLE402	S 24° 00' 41" E	300.03'
TLE402 - TLE401	S 27° 20' 04" E	138.00'
TLE401 - RW3226	S 62° 39' 56" W	18.08'
PRW340 - TLE754	S 62° 39' 56" W	9.00'
TLE754 - TLE480	N 27° 20' 04" W	140.08'
TLE480 - TLE756	N 22° 06' 58" W	347.58'
TLE756 - TLE554	N 16° 33' 56" W	105.13'
TLE554 - RW1898	S 61° 28' 27" W	12.89'

P.I. = 961+17.85
Y = 258,849.71
X = 568,729.44
DELTA = 28°21'32" (RT)
D = 2°29'48"
T = 579.85'
L = 1,135.93'
R = 2,295.00'
P.C. = 955+38.00
P.T. = 966+73.93

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1(18)/ 2040-3-21 DOC. NO. 4466432	1968	140'
WHITNALL EDGE ROAD	PLAT OF WHITNALL EDGE	1978	80'
WHITNALL EDGE DRIVE	CITY OF FRANKLIN RESOLUTION DOC. NO. 5419093	1980	60'
VENTURE DR.	C.S.M. 4834	1986	60'

STRAND ASSOCIATES, INC.
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.13 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather Bartelt DATE 9/01/21
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) Robert L Dufffeck DATE 09/01/21
(PRINTED NAME) Robert L. Dufffeck

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.13
AMENDMENT NO: 1

09/13/2021
Doc # 11162023

FILE NAME : S:\MIL\1000--1099\1089\919\Drawings\CAD\Micros\Plan\040413_rp AMEND1.dgn PLOT DATE : 8/31/2021 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

CONST. 2040-14-70 USH 45/STH 100 R/W 2040-14-20 - 4.13 AMENDMENT NO. 1

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.13

PART OF LOTS 2, 3, AND 4 OF CSM 7721, AND PART OF PARCELS 1 AND 2 OF CSM 5375, LOCATED IN THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4; AND PART OF LOTS 1 & 2 OF THE PLAT OF WHITNALL EDGE AND PART OF PARCEL 1 OF CSM 5375 LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 5; AND PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 6; ALL IN THE CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
81	WAUWATOSA SAVINGS BANK	FEE,TLE	0.04 AC	--	0.04 AC	0.03 AC
82	HARTLAND MEADOWS, LLC	FEE,TLE	0.06 AC	--	0.06 AC	0.31 AC
83	MENARD, INC	FEE,TLE	0.01 AC	--	0.01 AC	0.13 AC
84	HILLER FORD, INC	TLE	--	--	--	0.07 AC
85	DEALERSHIP PROPERTIES, INC	TLE	--	--	--	0.11 AC
86	BOUCHER HOLDINGS, LLC	FEE,TLE	0.03 AC	--	0.03 AC	0.06 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	CITY OF FRANKLIN SANITARY SEWER	RELEASE OF RIGHTS
203	TIME WARNER CABLE	RELEASE OF RIGHTS
204	CITY OF FRANKLIN WATER UTILITY	RELEASE OF RIGHTS
209	WE ENERGIES - GAS	RELEASE OF RIGHTS

200 AT&T WISCONSIN
PARCEL 81 - NO RECORDED EASEMENT
PARCEL 82 - DOC. 6386165, R.2456, I.140
PARCEL 83 - NO RECORDED EASEMENT
PARCEL 85 - NO RECORDED EASEMENT
PARCEL 86 - NO RECORDED EASEMENT

201 WE ENERGIES - ELECTRIC
PARCEL 81 - NO RECORDED EASEMENT
PARCEL 82 - DOC. 6386165, R.2456, I.140
PARCEL 83 - NO RECORDED EASEMENT
PARCEL 85 - 1 POWER POLE - NO RECORDED ESMT.
PARCEL 86 - ELECTRIC LINE, 1 POWER POLE - NO RECORDED EASEMENT

202 CITY OF FRANKLIN SANITARY SEWER
PARCEL 82 - DOC. NO. 4812748, R.762, I.221
PARCEL 83 - DOC. NO. 9202813
PARCEL 86 - SEWER EASEMENTS PER PLAT OF WHITNALL EDGE

203 TIME WARNER CABLE
PARCEL 84 - NO RECORDED EASEMENT

204 CITY OF FRANKLIN WATER UTILITY
PARCEL 82 - NO RECORDED ESMT.
PARCEL 83 - CSM 7721, DOC. 09197021
PARCEL 86 - NO RECORDED ESMT.

209 WE ENERGIES - GAS
PARCEL 83 - NO RECORDED EASEMENT
PARCEL 85 - NO RECORDED EASEMENT

CURVE PRW S114A
L = 677.12'
R = 2,222.00'
LC = 674.50'
LCB = S 18°36'16" E

CURVE EXRW S115
L = 349.50'
R = 2,361.83'
LC = 349.18'
LCB = N 20°33'28" W

CURVE EXRW S117
L = 133.55'
R = 2,361.83'
LC = 133.53'
LCB = N 10°34'18" W

CURVE EXRW S117A
L = 351.11'
R = 2,361.83'
LC = 350.79'
LCB = N 3°13'29" W

CURVE PRW S119
L = 334.18'
R = 2,222.00'
LC = 333.86'
LCB = S 3°28'22" E

P.I. = 52+32.30 WH
Y = 259,044.68
X = 568,996.92
DELTA = 27°34'55" (RT)
D = 19°05'55"
T = 73.64'
L = 144.42'
R = 300.00'
P.C. = 51+58.66
P.T. = 53+03.08

P.I. = 961+16.70
Y = 258,848.69
X = 568,729.96
DELTA = 28°18'18" (RT)
D = 2°29'48"
T = 578.70'
L = 1,133.77'
R = 2,295.00'
P.C. = 955+38.00
P.T. = 966+71.77

EXISTING ACCESS CONTROL ALONG S.T.H. 100/U.S.H. 45 ESTABLISHED FROM PREVIOUS PROJECT CA 059-1(1) AND CA 058-1(1) AND PLAT OF WHITNALL EDGE

R/W COURSE TABLE

RW1273 - RW1890	N 1° 00' 11" E	189.43'
RW1890 - RW1303	N 10° 34' 18" W	133.53'
RW1303 - RW1302	N 8° 13' 04" W	60.53'
RW1302 - RW1880	N 3° 13' 29" W	350.79'
RW1880 - RW3227	N 1° 00' 11" E	26.95'
RW3227 - TIE54	S 88° 58' 32" E	62.35'
TIE54 - TIE55	S 88° 58' 32" E	7.83'
TIE55 - PRW41	S 64° 23' 40" E	80.29'
PRW41 - PRW40	S 3° 28' 22" E	333.87'
PRW40 - PRW268	S 8° 49' 41" E	81.17'
PRW268 - PRW265	S 18° 36' 16" E	674.50'
PRW265 - PRW341	S 27° 20' 04" E	138.00'
PRW341 - TIE53	S 62° 39' 56" W	73.00'
TIE53 - PRW340	S 62° 39' 56" W	82.00'
PRW340 - PRW273	N 27° 20' 04" W	112.90'
PRW273 - PRW39	N 21° 13' 10" W	130.88'
PRW39 - RW1898	N 20° 33' 28" W	349.18'
RW1898 - RW1273	S 61° 28' 27" W	51.44'
RW1273 - TLE553	N 1° 00' 11" E	126.49'
TLE553 - TLE483	S 76° 19' 18" W	7.46'
TLE483 - TLE484	N 13° 08' 30" W	44.74'
TLE484 - TLE485	N 77° 23' 43" E	7.28'

R/W COURSE TABLE

TLE485 - TLE488	N 13° 05' 27" W	154.58'
TLE488 - RW1303	N 89° 22' 06" E	21.93'
RW1302 - TLE489	S 89° 22' 06" W	19.82'
TLE489 - TLE490	N 9° 30' 41" E	35.10'
TLE490 - TLE491	N 4° 54' 52" W	241.20'
TLE491 - TLE492	N 1° 31' 51" W	72.53'
TLE492 - TLE758	N 1° 01' 28" E	30.27'
TLE758 - RW3227	S 88° 58' 32" E	16.82'
PRW41 - TLE409	N 89° 28' 01" E	22.32'
TLE409 - TLE407	S 16° 34' 29" W	65.61'
TLE407 - TLE406	S 4° 00' 28" E	243.05'
TLE406 - TLE405	S 39° 58' 46" E	37.25'
TLE405 - PRW40	N 88° 59' 38" W	24.31'
PRW268 - TLE404	S 88° 58' 34" E	25.46'
TLE404 - TLE403	S 3° 48' 56" E	79.64'
TLE403 - TLE759	S 15° 12' 22" E	288.49'
TLE759 - TLE402	S 24° 00' 41" E	300.03'
TLE402 - TLE401	S 27° 20' 04" E	138.00'
TLE401 - PRW341	S 62° 39' 56" W	15.00'
PRW340 - TLE754	S 62° 39' 56" W	9.00'
TLE754 - TLE480	N 27° 20' 04" W	140.08'
TLE480 - TLE756	N 22° 06' 58" W	347.58'

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1 (18)/ 2040-3-21	1968	140'
WHITNALL EDGE ROAD	PLAT OF WHITNALL EDGE	1978	80'
WHITNALL EDGE DRIVE	CITY OF FRANKLIN RESOLUTION DOC. NO. 5419093	1980	60'
VENTURE DR.	C.S.M. 4834	1986	60'

POINT #	STATION	OFFSET
PRW39	956+39.93	-70.39
PRW40	963+21.20	73.00
PRW41	966+66.36	73.00
PRW265	955+37.99	73.00
PRW268	962+37.36	73.00
PRW273	955+12.89	-82.00
PRW340	954+00.00	-82.00
PRW341	954+00.00	73.00
RW1273	959+68.70	-120.70
RW1302	963+32.39	-70.32
RW1303	962+73.66	-70.34
RW1880	966+73.07	-70.17
RW1890	961+44.08	-70.37
RW1898	959+79.03	-70.40
RW3227	967+00.00	-70.18
TIE53	954+00.00	0.00
TIE54	967+00.00	-7.83
TIE55	967+00.00	0.00
TLE401	954+00.00	88.00
TLE402	955+38.00	88.00

POINT #	STATION	OFFSET
TLE403	961+49.98	88.00
TLE404	962+32.33	98.00
TLE405	963+17.32	97.02
TLE406	963+49.97	77.00
TLE407	966+01.57	76.64
TLE409	966+66.92	95.32
TLE480	955+40.00	-91.00
TLE483	960+85.00	-93.00
TLE484	961+28.00	-93.00
TLE485	961+28.00	-85.72
TLE488	962+76.71	-92.04
TLE489	963+34.67	-90.00
TLE490	963+67.12	-80.00
TLE491	966+00.00	-85.00
TLE492	966+69.89	-87.00
TLE553	960+85.00	-85.54
TLE554	959+76.40	-83.00
TLE754	954+00.00	-91.00
TLE756	958+75.00	-85.00
TLE758	967+00.00	-87.00
TLE759	958+50.00	85.00

SCALE, FEET
0 50 100

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 10148550.

This is a copy. The original is at the Register of Deeds office.

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.13 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather Bartelt DATE 2/6/13
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) Robert L Dufleck DATE 02/06/13
(PRINTED NAME) Robert L. Dufleck RLS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.13
AMENDMENT NO:

10222175
DOC.# 10222175
RECORDED 03/04/2013 11:27AM
JOHN LA FAVE
REGISTER OF DEEDS
Milwaukee County, WI
AMOUNT: 25.00
FEE EXEMPT #:

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.14
AMENDMENT NO. 1

AMENDS PARCELS 84, 87 & 88 AND REMOVES PARCEL 90 AND AMENDS UTILITY 201, 202, & 203 AND REMOVES UTILITY 206 & 209 OF TRANSPORTATION PROJECT PLAT 2040-14-20-4.14 RECORDED AS DOCUMENT NO. 10222176 AT THE MILWAUKEE COUNTY REGISTER OF DEEDS.

PART OF LOT 1 OF CSM 8705 LOCATED IN AND INCLUDING THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 6; AND PART OF PARCEL 1 OF CSM 4834, LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 5, IN THE CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 LOVER'S LANE, CITY OF FRANKLIN
ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUB-SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

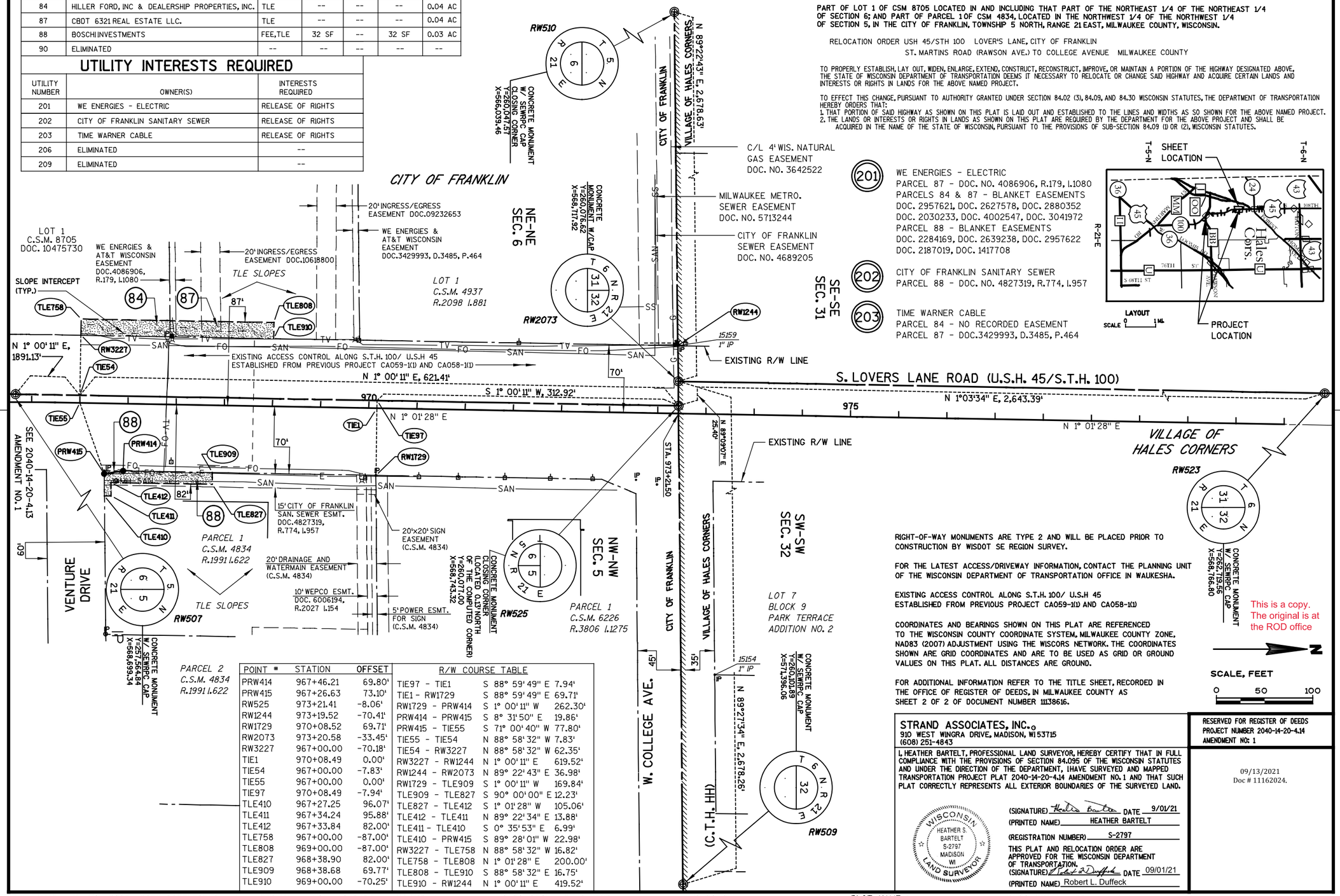
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
84	HILLER FORD, INC & DEALERSHIP PROPERTIES, INC.	TLE	--	--	--	0.04 AC
87	CBDT 6321 REAL ESTATE LLC.	TLE	--	--	--	0.04 AC
88	BOSCH INVESTMENTS	FEE,TLE	32 SF	--	32 SF	0.03 AC
90	ELIMINATED	--	--	--	--	--

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTERESTS REQUIRED
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	CITY OF FRANKLIN SANITARY SEWER	RELEASE OF RIGHTS
203	TIME WARNER CABLE	RELEASE OF RIGHTS
206	ELIMINATED	--
209	ELIMINATED	--

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1(18)/ 2040-3-21	1968	140'
W. COLLEGE AVE. (CITY OF FRANKLIN)	C.S.M. NO. 6226	1996	45'
W. COLLEGE AVE. (VILLAGE OF HALES CORNERS)	PARK TERRACE ADDITION NO. 2	1993	35'



POINT #	STATION	OFFSET
PRW414	967+46.21	69.80'
PRW415	967+26.63	73.10'
RW525	973+21.41	-8.06'
RW1244	973+19.52	-70.41'
RW1729	970+08.52	69.71'
RW2073	973+20.58	-33.45'
RW3227	967+00.00	-70.18'
TIE1	970+08.49	0.00'
TIE54	967+00.00	-7.83'
TIE55	967+00.00	0.00'
TIE97	970+08.49	-7.94'
TLE410	967+27.25	96.07'
TLE411	967+34.24	95.88'
TLE412	967+33.84	82.00'
TLE758	967+00.00	-87.00'
TLE808	969+00.00	-87.00'
TLE827	968+38.90	82.00'
TLE909	968+38.68	69.77'
TLE910	969+00.00	-70.25'

R/W COURSE TABLE		
TIE97 - TIE1	S 88° 59' 49" E	7.94'
TIE1 - RW1729	S 88° 59' 49" E	69.71'
RW1729 - PRW414	S 1° 00' 11" W	262.30'
PRW414 - PRW415	S 8° 31' 50" E	19.86'
PRW415 - TIE55	S 71° 00' 40" W	77.80'
TIE55 - TIE54	N 88° 58' 32" W	7.83'
TIE54 - RW3227	N 88° 58' 32" W	62.35'
RW3227 - RW1244	N 1° 00' 11" E	619.52'
RW1244 - RW2073	N 89° 22' 43" E	36.98'
RW1729 - TLE909	S 1° 00' 11" W	169.84'
TLE909 - TLE827	S 90° 00' 00" E	12.23'
TLE827 - TLE412	S 1° 01' 28" W	105.06'
TLE412 - TLE411	N 89° 22' 34" E	13.88'
TLE411 - TLE410	S 0° 35' 53" E	6.99'
TLE410 - PRW415	S 89° 28' 01" W	22.98'
RW3227 - TLE758	N 88° 58' 32" W	16.82'
TLE758 - TLE808	N 1° 01' 28" E	200.00'
TLE808 - TLE910	S 88° 58' 32" E	16.75'
TLE910 - RW1244	N 1° 00' 11" E	419.52'

201 WE ENERGIES - ELECTRIC
PARCEL 87 - DOC. NO. 4086906, R.179, I.1080
PARCELS 84 & 87 - BLANKET EASEMENTS
DOC. 2957621, DOC. 2627578, DOC. 2880352
DOC. 2030233, DOC. 4002547, DOC. 3041972
PARCEL 88 - BLANKET EASEMENTS
DOC. 2284169, DOC. 2639238, DOC. 2957622
DOC. 2187019, DOC. 1417708

202 CITY OF FRANKLIN SANITARY SEWER
PARCEL 88 - DOC. NO. 4827319, R.774, I.957

203 TIME WARNER CABLE
PARCEL 84 - NO RECORDED EASEMENT
PARCEL 87 - DOC.3429993, D.3485, P.464

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO CONSTRUCTION BY WISDOT SE REGION SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

EXISTING ACCESS CONTROL ALONG S.T.H. 100/ U.S.H 45 ESTABLISHED FROM PREVIOUS PROJECT CA059-1(1) AND CA058-1(1)

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT USING THE WISCORS NETWORK. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. ALL DISTANCES ARE GROUND.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 11138616.

SCALE, FEET
0 50 100

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.14 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather Bartelt DATE 9/01/21
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) Robert L. Dufeck DATE 09/01/21
(PRINTED NAME) Robert L. Dufeck

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.14
AMENDMENT NO: 1

09/13/2021
Doc # 11162024.

This is a copy. The original is at the ROD office

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.14

PART OF LOT 1 OF CSM 4937 LOCATED IN THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 6; AND PART OF PARCEL 1 OF CSM 4834, LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 5, IN THE CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

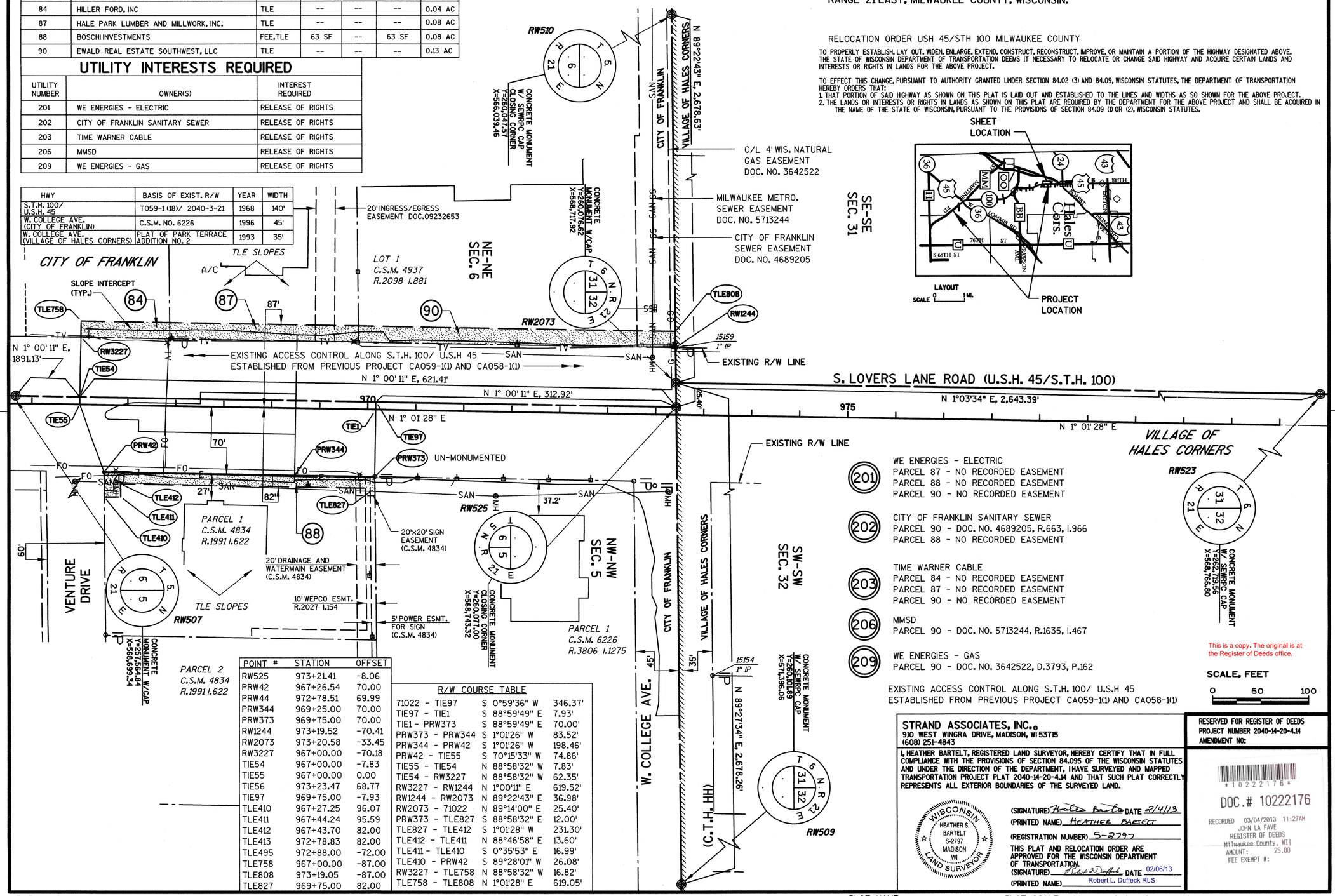
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
84	HILLER FORD, INC	TLE	--	--	--	0.04 AC
87	HALE PARK LUMBER AND MILLWORK, INC.	TLE	--	--	--	0.08 AC
88	BOSCHI INVESTMENTS	FEE,TLE	63 SF	--	63 SF	0.08 AC
90	EWALD REAL ESTATE SOUTHWEST, LLC	TLE	--	--	--	0.13 AC

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	CITY OF FRANKLIN SANITARY SEWER	RELEASE OF RIGHTS
203	TIME WARNER CABLE	RELEASE OF RIGHTS
206	MMSD	RELEASE OF RIGHTS
209	WE ENERGIES - GAS	RELEASE OF RIGHTS

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1 (18)/ 2040-3-21	1968	140'
W. COLLEGE AVE. (CITY OF FRANKLIN)	C.S.M. NO. 6226	1996	45'
W. COLLEGE AVE. (VILLAGE OF HALES CORNERS)	PLAT OF PARK TERRACE ADDITION NO. 2	1993	35'

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN MILWAUKEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 10148550.



POINT *	STATION	OFFSET
RW525	973+21.41	-8.06
PRW42	967+26.54	70.00
PRW44	972+78.51	69.99
PRW344	969+25.00	70.00
PRW373	969+75.00	70.00
RW1244	973+19.52	-70.41
RW2073	973+20.58	-33.45
RW3227	967+00.00	-70.18
TIE54	967+00.00	-7.83
TIE55	967+00.00	0.00
TIE56	973+23.47	68.77
TIE97	969+75.00	-7.93
TLE410	967+27.25	96.07
TLE411	967+44.24	95.59
TLE412	967+43.70	82.00
TLE413	972+78.83	82.00
TLE495	972+88.00	-72.00
TLE758	967+00.00	-87.00
TLE808	973+19.05	-87.00
TLE827	969+75.00	82.00

R/W COURSE TABLE

71022 - TIE97	S 0°59'36" W	346.37'
TIE97 - TIE1	S 88°59'49" E	7.93'
TIE1 - PRW373	S 88°59'49" E	70.00'
PRW373 - PRW344	S 1°01'26" W	83.52'
PRW344 - PRW42	S 1°01'26" W	198.46'
PRW42 - TIE55	S 70°15'33" W	74.86'
TIE55 - TIE54	N 88°58'32" W	7.83'
TIE54 - RW3227	N 88°58'32" W	62.35'
RW3227 - RW1244	N 1°00'11" E	619.52'
RW1244 - RW2073	N 89°22'43" E	36.98'
RW2073 - 71022	N 89°14'00" E	25.40'
PRW373 - TLE827	S 88°58'32" E	12.00'
TLE827 - TLE412	S 1°01'28" W	231.30'
TLE412 - TLE411	N 88°46'58" E	13.60'
TLE411 - TLE410	S 0°35'53" E	16.99'
TLE410 - PRW42	S 89°28'01" W	26.08'
RW3227 - TLE758	N 88°58'32" W	16.82'
TLE758 - TLE808	N 1°01'28" E	619.05'

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.14 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 2/4/13
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 02/06/13
(PRINTED NAME) Robert L. Dufleck RLS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.14
AMENDMENT NO:

10222176
DOC.# 10222176
RECORDED 03/04/2013 11:27AM
JOHN LA FAVE
REGISTER OF DEEDS
Milwaukee County, WI
AMOUNT: 25.00
FEE EXEMPT #:

This is a copy. The original is at the Register of Deeds office.

FILE NAME : S:\MIL\1000--1099\1089\183\Micros\Design\TPP PLAT\2040-14-20\040414_rp.dgn PLOT DATE : 2/4/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

CONST. 2040-14-70 USH 45/STH 100 R/W 2040-14-20 - 4.14

TRANSPORTATION PROJECT PLAT NO: 2040-14-20 - 4.14
AMENDMENT NO. 2

AMENDS UTILITY 203 OF TRANSPORTATION PROJECT PLAT 2040-14-20-4.14 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 11162024 AND ADDS UTILITY NUMBER 200 OF TRANSPORTATION PROJECT PLAT 2040-14-20-4.14 RECORDED AS DOCUMENT NO. 10222176 AT THE MILWAUKEE COUNTY REGISTER OF DEEDS.

PART OF LOT 1 OF CSM 8705 LOCATED IN AND INCLUDING THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 6; AND PART OF PARCEL 1 OF CSM 4834, LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 5, IN THE CITY OF FRANKLIN, TOWNSHIP 5 NORTH, RANGE 21 EAST, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45/STH 100 LOVER'S LANE, CITY OF FRANKLIN
ST. MARTINS ROAD (RAWSON AVE.) TO COLLEGE AVENUE MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUB-SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

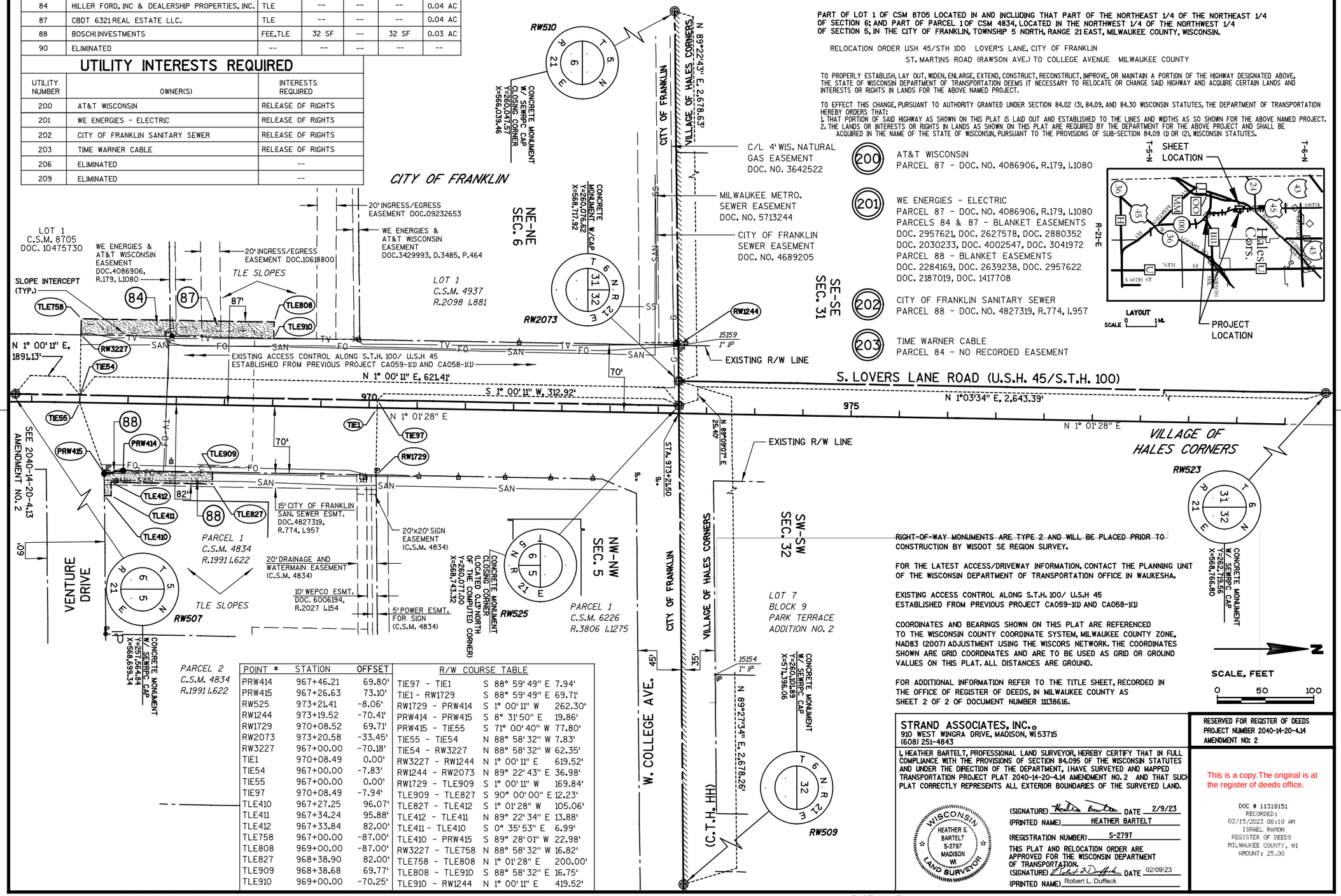
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE
84	HILLER FORD, INC & DEALERSHIP PROPERTIES, INC.	TLE	--	--	--	0.04 AC
87	CBDT 6321 REAL ESTATE LLC.	TLE	--	--	--	0.04 AC
88	BOSCH INVESTMENTS	FEE,TLE	32 SF	--	32 SF	0.03 AC
90	ELIMINATED	--	--	--	--	--

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTERESTS REQUIRED
200	AT&T WISCONSIN	RELEASE OF RIGHTS
201	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
202	CITY OF FRANKLIN SANITARY SEWER	RELEASE OF RIGHTS
203	TIME WARNER CABLE	RELEASE OF RIGHTS
206	ELIMINATED	--
209	ELIMINATED	--

HWY	BASIS OF EXIST. R/W	YEAR	WIDTH
S.T.H. 100/ U.S.H. 45	T059-1(18)/ 2040-3-21	1968	140'
W. COLLEGE AVE. (CITY OF FRANKLIN)	C.S.M. NO. 6226	1996	45'
W. COLLEGE AVE. (VILLAGE OF HALES CORNERS)	PARK TERRACE ADDITION NO. 2	1993	35'



POINT #	STATION	OFFSET
PRW414	967+46.21	69.80'
PRW415	967+26.63	73.10'
RW525	973+21.41	-8.06'
RW1244	973+19.52	-70.41'
RW1729	970+08.52	69.71'
RW2073	973+20.58	-33.45'
RW3227	967+00.00	-70.18'
TIE1	970+08.49	0.00'
TIE54	967+00.00	-7.83'
TIE55	967+00.00	0.00'
TIE97	970+08.49	-7.94'
TLE410	967+27.25	96.07'
TLE411	967+34.24	95.88'
TLE412	967+33.84	82.00'
TLE758	967+00.00	-87.00'
TLE808	969+00.00	-87.00'
TLE827	968+38.90	82.00'
TLE909	968+38.68	69.77'
TLE910	969+00.00	-70.25'

R/W COURSE TABLE		
TIE97 - TIE1	S 88° 59' 49" E	7.94'
TIE1 - RW1729	S 88° 59' 49" E	69.71'
RW1729 - PRW414	S 1° 00' 11" W	262.30'
PRW414 - PRW415	S 8° 31' 50" E	19.86'
PRW415 - TIE55	S 71° 00' 40" W	77.80'
TIE55 - TIE54	N 88° 58' 32" W	7.83'
TIE54 - RW3227	N 88° 58' 32" W	62.35'
RW3227 - RW1244	N 1° 00' 11" E	619.52'
RW1244 - RW2073	N 89° 22' 43" E	36.98'
RW1729 - TLE909	S 1° 00' 11" W	169.84'
TLE909 - TLE827	S 90° 00' 00" E	12.23'
TLE827 - TLE412	S 1° 01' 28" W	105.06'
TLE412 - TLE411	N 89° 22' 34" E	13.88'
TLE411 - TLE410	S 0° 35' 53" E	6.99'
TLE410 - PRW415	S 89° 28' 01" W	22.98'
RW3227 - TLE758	N 88° 58' 32" W	16.82'
TLE758 - TLE808	N 1° 01' 28" E	200.00'
TLE808 - TLE910	S 88° 58' 32" E	16.75'
TLE910 - RW1244	N 1° 00' 11" E	419.52'

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2040-14-20-4.14 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather Bartelt DATE 2/9/23
(PRINTED NAME) HEATHER BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) Robert L Dufffeck DATE 02/09/23
(PRINTED NAME) Robert L. Dufffeck

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2040-14-20-4.14
AMENDMENT NO: 2

This is a copy. The original is at the register of deeds office.

DOC # 11318151
RECORDED:
02/15/2023 08:10 AM
ISRAEL RAMON
REGISTER OF DEEDS
MILWAUKEE COUNTY, WI
AMOUNT: 25.00

5

EXIST R/W

N

BEGIN RECONSTRUCTION
SB STA 917+40
MATCH EXISTING
SAW CUT REQ'D

CITY OF FRANKLIN
STORM SEWER

CITY OF FRANKLIN
8" WATER MAIN

BEGIN RESURFACING
SB STA 914+64.43
MATCH EXISTING
SAW CUT REQ'D

WETLANDS

CTH BB

WETLANDS

R/L USH 45

AT&T WI

WETLANDS

PROPOSED R/W

AT&T FIBER OPTIC

B-40-746

B-40-745

910

915

905

USH 45

45'

49'

41'

MATCH LINE STA 918+50

BEGIN PROJECT
BEGIN RESURFACING
NB STA 913+89.19
MATCH EXISTING
SAW CUT REQ'D

BEGIN RECONSTRUCTION
NB STA 916+00
MATCH EXISTING
SAW CUT REQ'D

TRANSITION SHARED USE PATH CROSS SLOPE FROM
+2.0% TO -1.5% BETWEEN 916+00 TO 916+50

WETLANDS

RAWSON AVENUE

SPECTRUM

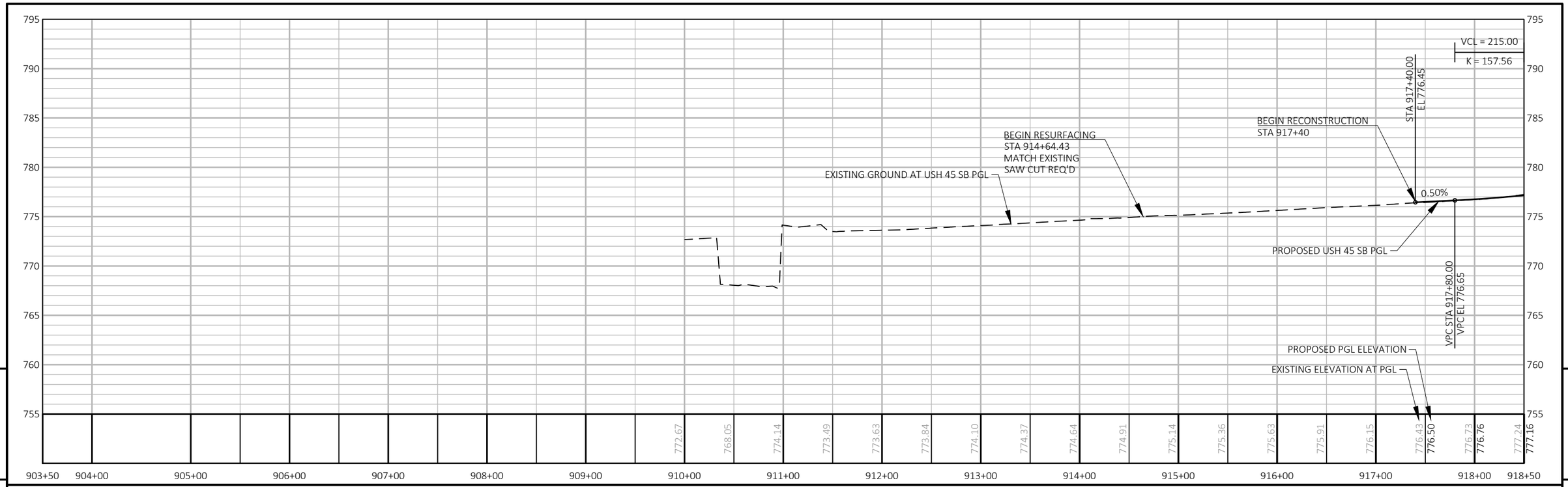
SLOPE INTERCEPT, TYP

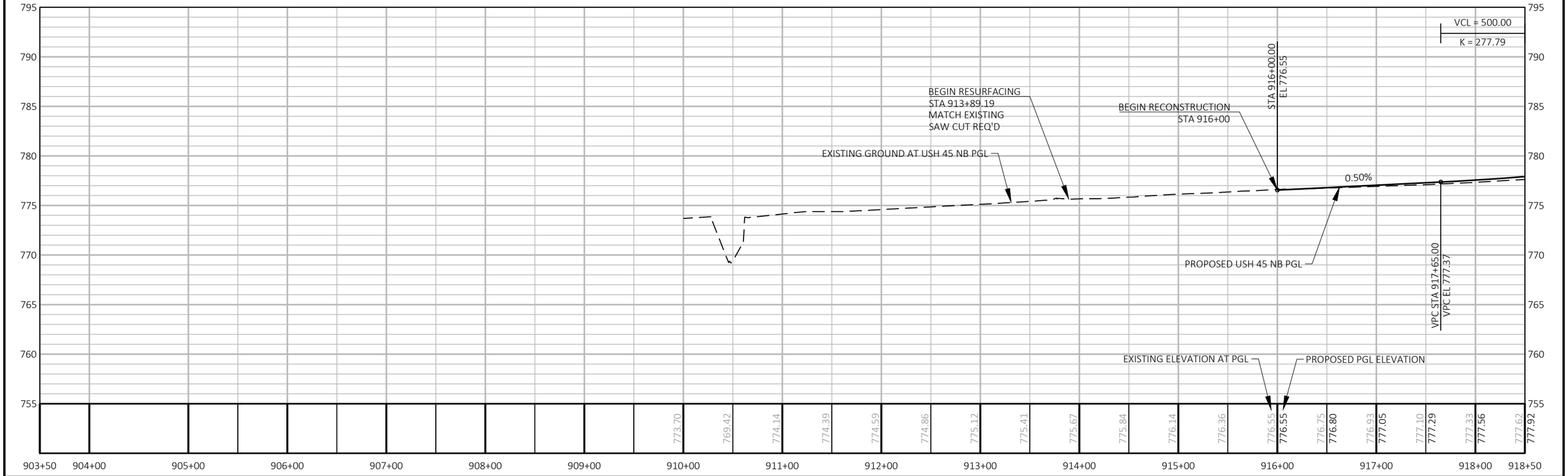
EXIST R/W

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN USH 45	SHEET 382	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050101-PN.DWG
LAYOUT NAME - 050201

PLOT DATE : 4/25/2023 11:09 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT





PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES USH 45	SHEET 383	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050301-PR.DWG
LAYOUT NAME - 050301
PLOT DATE : 4/25/2023 11:10 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

LEGEND

STAMPING COLORED CONCRETE

N

BEGIN RESURFACING
STA 245+23
MATCH EXISTING
SAW CUT REQ'D

RAWSON AVE (CTH BB)

R/L RAWSON NW RAMP

BEGIN RECONSTRUCTION
STA 247+19
MATCH EXISTING
SAW CUT REQ'D

WE ENERGIES ELEC

TAMMY LAVELETTE

WETLANDS

SPECTRUM

CITY OF FRANKLIN
20" WATER MAIN

ADJUST FACE OF CURB
TO ACCOMMODATE
SANITARY MANHOLE

RAWSON NW RAMP

DETENTION POND

CITY OF FRANKLIN
STORM SEWER

R/L FRONTAGE ROAD WEST

FRANK &
SALLY STANZER

CITY OF FRANKLIN
SANITARY SEWER

PROPOSED R/W

TOM &
ANNA STAMAS

DAVOR POLOVIC

STORAGE MASTER
REALTY ,LLC

MILIVOJE MINIC

FRONTAGE ROAD WEST

SLOPE INTERCEPT, TYP

CITY OF FRANKLIN
20" WATER MAIN

SPECTRUM

CITY OF FRANKLIN
SANITARY SEWER

R/L USH 45

WE ENERGIES GAS

EXIST R/W

AT&T FIBER OPTIC

USH 45

WE ENERGIES GAS

MATCH LINE STA 932+50

MATCH LINE STA 918+50

SPECTRUM

EXIST R/W

WETLANDS

EXIST R/W

END CONSTRUCTION
STA 301+35
MATCH EXISTING
SAW CUT REQ'D

RUSSEL &
SHIRLEY A
SPLIKA

PROPOSED R/W

WE ENERGIES GAS

DEAN & MARY
LEE ADAMS

CITY OF FRANKLIN
8" WATER MAIN

GERARDO &
ROXANNA
HUERTA

JEFFERY R
PIONTKOWSKY &
MARY C. SPRYZACK

AARON G.
BAUMANN

JOHN &
DIANE WINKOWSKI

ANTHONY WAYNE
SCHOOLEY

HOWARD D.
VERGURGT

ELLEN HESS

R/L FRONTAGE ROAD EAST

FRONTAGE ROAD EAST

EXISTING R/W

VERIZON BUSINESS

PROPOSED R/W

EXIST R/W

PHYLLIS LANE

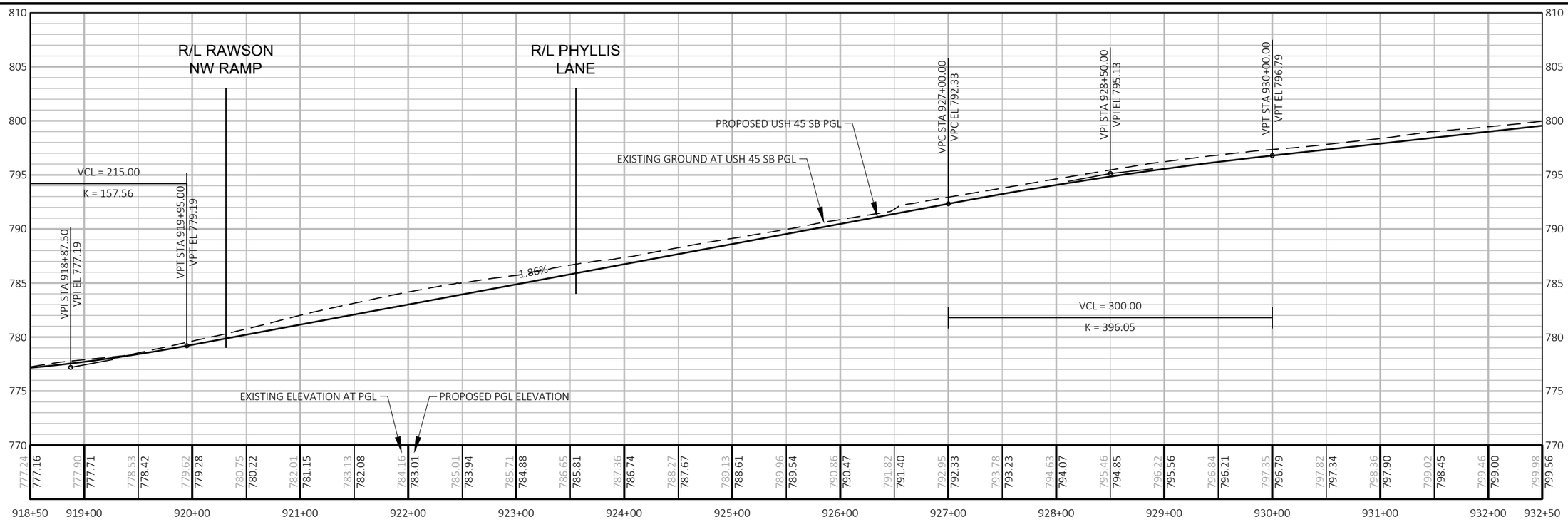
R/L PHYLLIS LANE

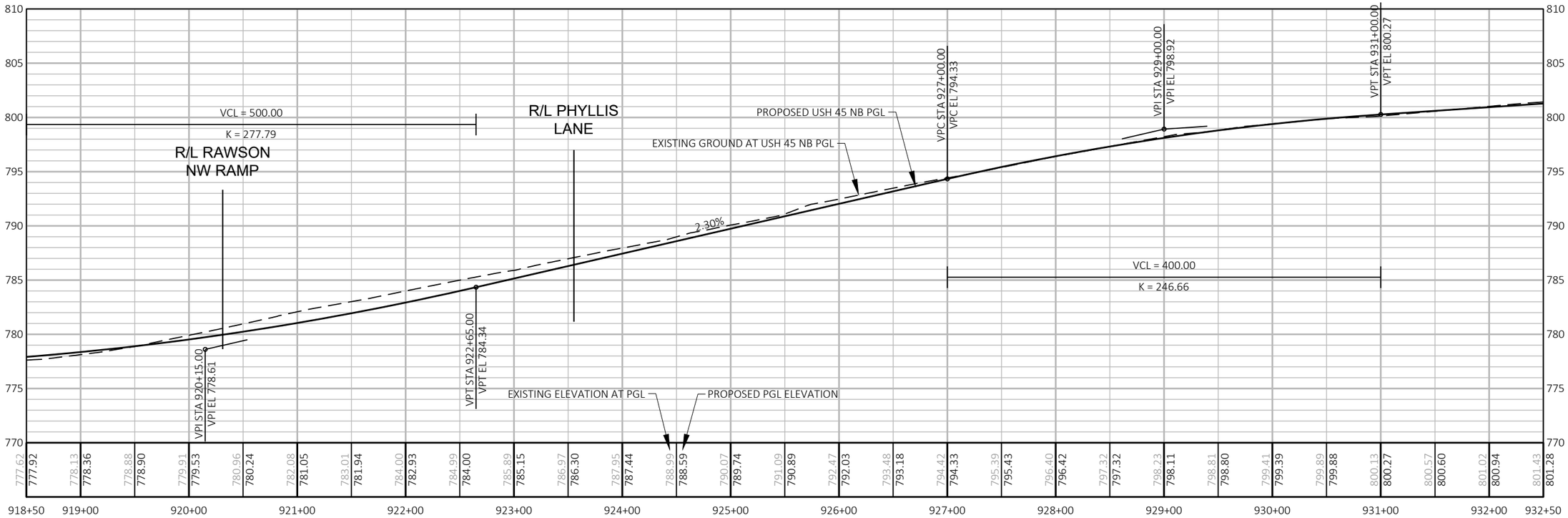
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN USH 45	SHEET 384	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\050101-PN.DWG
LAYOUT NAME - 050202

PLOT DATE : 4/25/2023 11:09 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





5

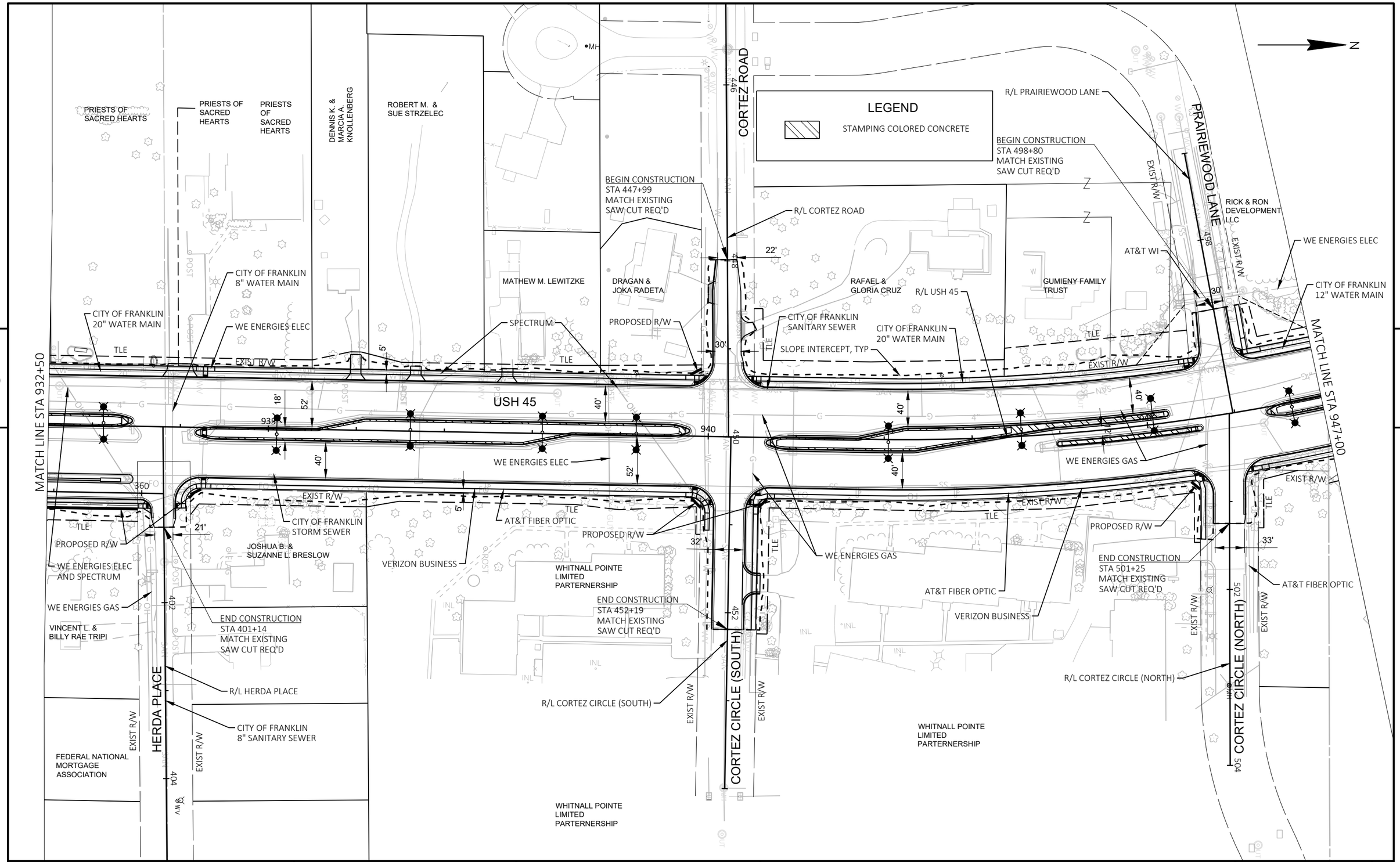
5

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES USH 45	SHEET 385 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050301-PR.DWG
LAYOUT NAME - 050302

PLOT DATE : 4/25/2023 11:10 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

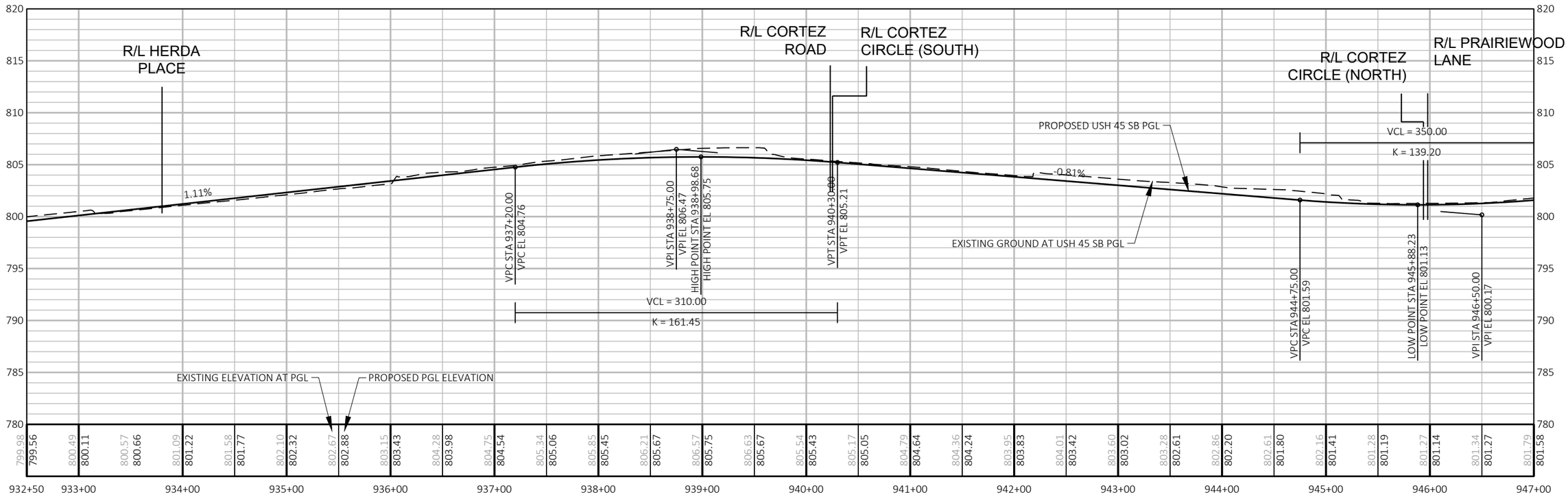


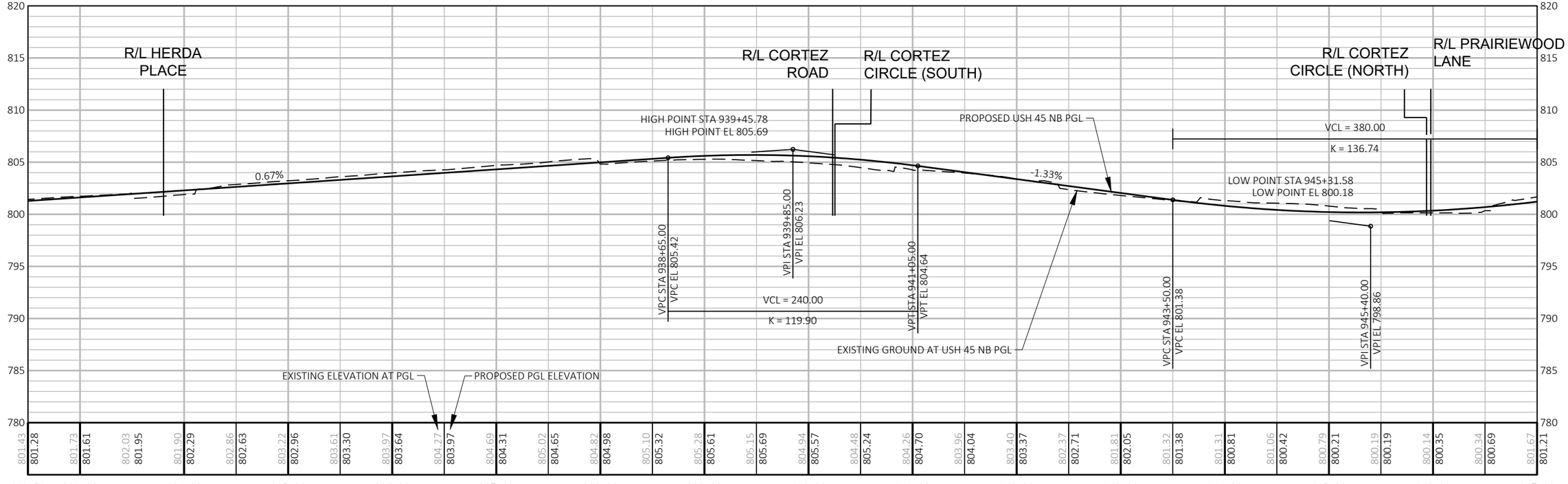
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN USH 45	SHEET 386 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050101-PN.DWG
LAYOUT NAME - 050203

PLOT DATE : 4/25/2023 11:09 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



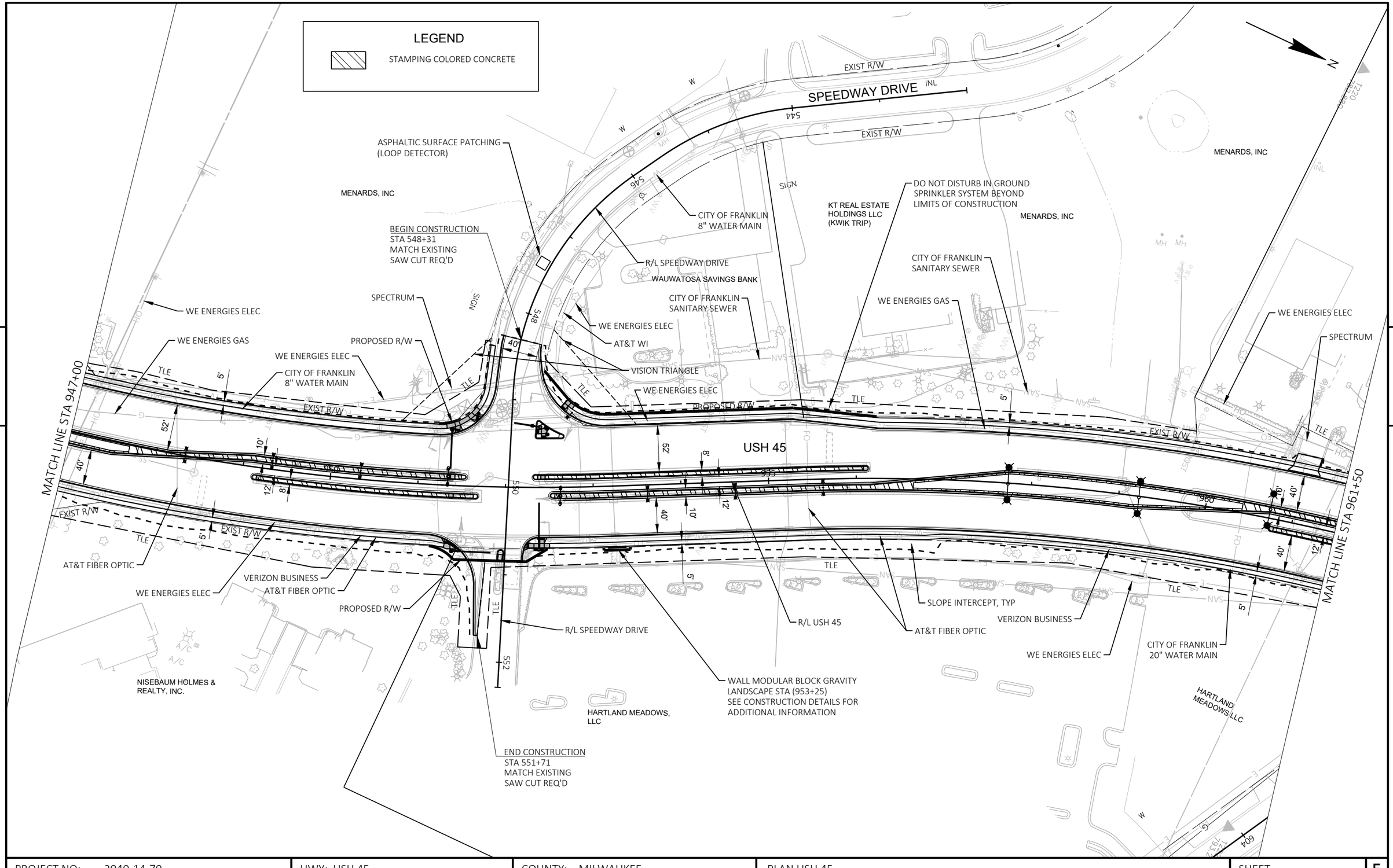


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES USH 45	SHEET 387 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050301-PR.DWG
LAYOUT NAME - 050303

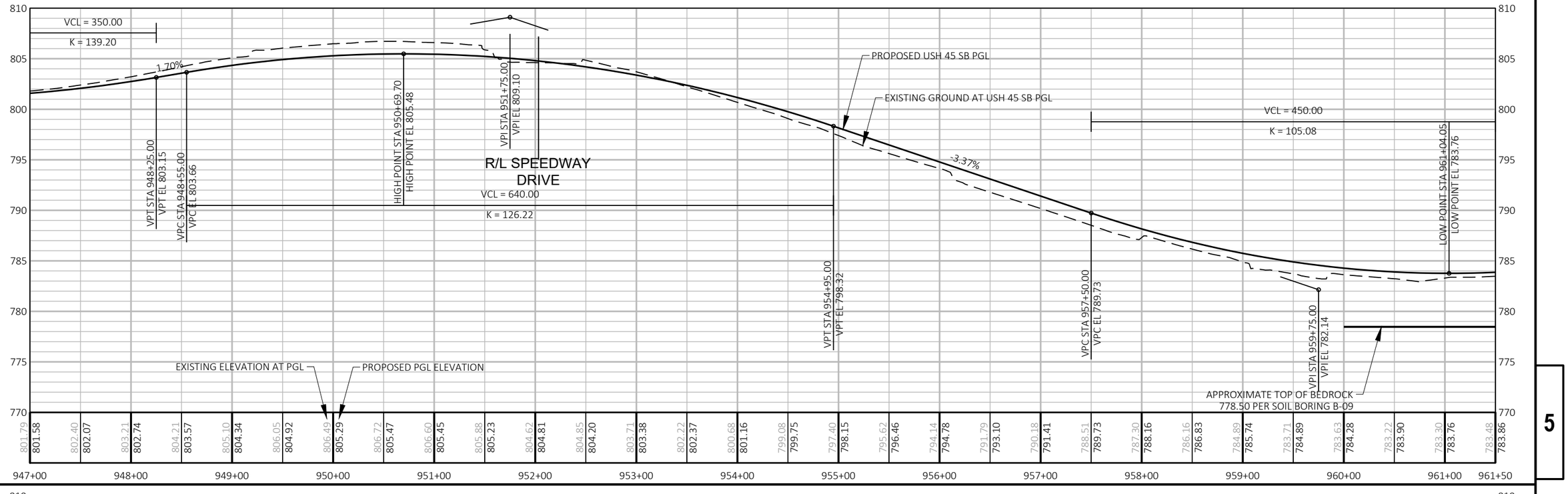
PLOT DATE : 4/25/2023 11:11 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

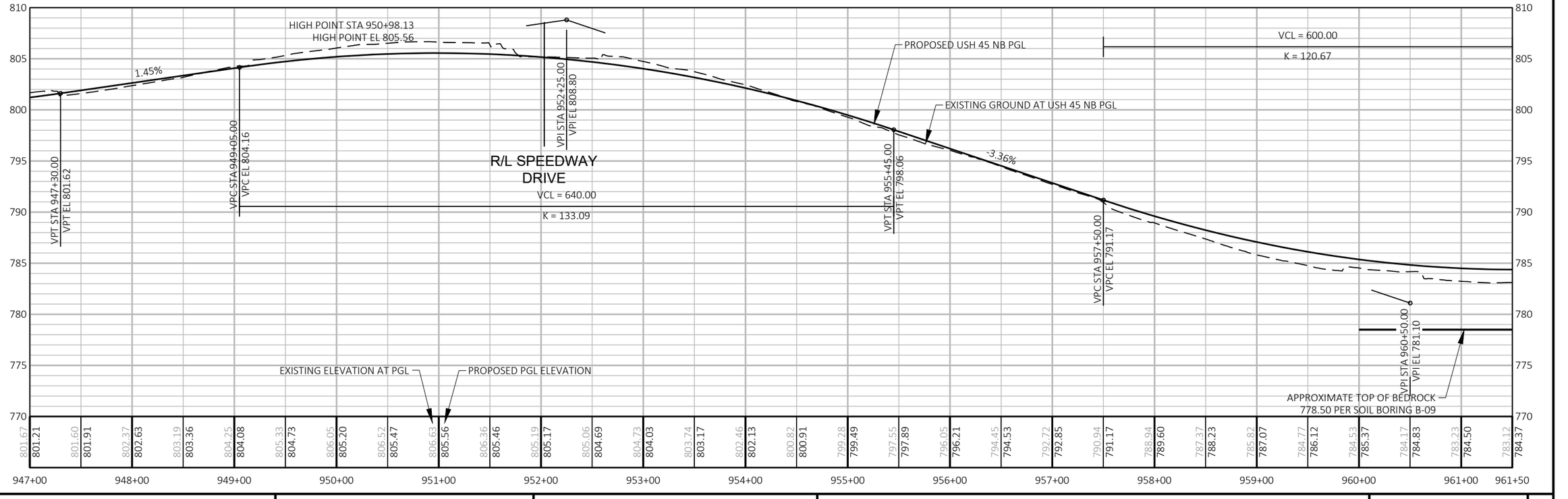
WISDOT/CADDS SHEET 44



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN USH 45	SHEET 388	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050101-PN.DWG
LAYOUT NAME - 050204
PLOT DATE : 4/25/2023 11:09 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





5

5

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES USH 45	SHEET 389	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050301-PR.DWG
LAYOUT NAME - 050304

PLOT DATE : 4/25/2023 11:11 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

LEGEND

STAMPING COLORED CONCRETE

N

HILLER FORD , INC & DEALERSHIP PROPERTIES

HILLER FORD , INC & DEALERSHIP PROPERTIES

HILLER FORD , INC & DEALERSHIP PROPERTIES

HILLER FORD , INC & DEALERSHIP PROPERTIES

CBDT 6321 REAL ESTATE LLC

EWALD REAL ESTATE SOUTHWEST, LLC

CITY OF FRANKLIN 16" WATER MAIN

CITY OF FRANKLIN 8" WATER MAIN

WE ENERGIES ELEC

R/L USH 45

SPECTRUM

VERIZON BUSINESS

WE ENERGIES GAS

TLE

EXIST R/W

40'

8'

5'

965

970

975

52'

CITY OF FRANKLIN 20" WATER MAIN

END PROJECT
STA 968+80
MATCH EXISTING
SAW CUT REQ'D

MCI METRO

AT&T WI

36" CITY OF FRANKLIN SANITARY SEWER

END CONSTRUCTION
STA 971+50
MATCH EXISTING
SAW CUT REQ'D

USH 45

WE ENERGIES GAS

EWALD REAL ESTATE
6269, LLC (AIRSTREAM)

FILLER CAPS

G.P.

84" MMSD SANITARY SEWER

60" MMSD SANITARY SEWER

CANOPY

SPECTRUM

MATCH LINE STA 961+50

AT&T FIBER OPTIC

12'

10'

40'

18'

SLOPE INTERCEPT, TYP

EXISTING R/W

VERIZON BUSINESS

WE ENERGIES GAS

CITY OF FRANKLIN SANITARY SEWER

BOUCHER HOLDINGS, LLC

R/L WHITNALL EDGE ROAD

CITY OF FRANKLIN STORM

36'

19'

33'

652

654

BOSCHI INVESTMENTS (KINDERCARE)

WE ENERGIES ELEC

CITY OF FRANKLIN 8" SANITARY SEWER

END CONSTRUCTION
STA 651+15
MATCH EXISTING
SAW CUT REQ'D

CANOPY

THE HOLZ FAMILY, LLC

CITY OF FRANKLIN 12" SANITARY SEWER

RITZMAN REAL ESTATE INVESTMENTS, LLC

WE ENERGIES

84" MMSD SANITARY SEWER

WHITNALL EDGE ROAD

VENTURE DRIVE

W. COLLEGE AVENUE

END CONSTRUCTION
STA 602+00
MATCH EXISTING
SAW CUT REQ'D

WE ENERGIES ELEC

R/L VENTURE DRIVE

WE ENERGIES GAS

CITY OF FRANKLIN SANITARY SEWER

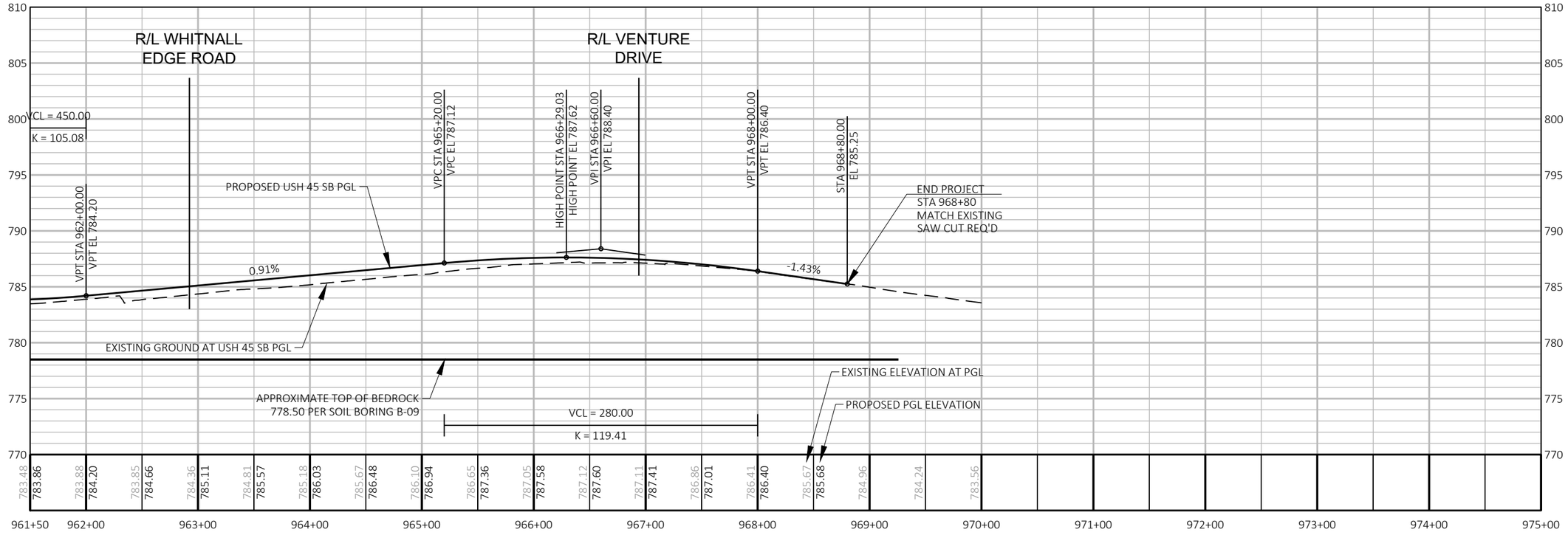
WALLS

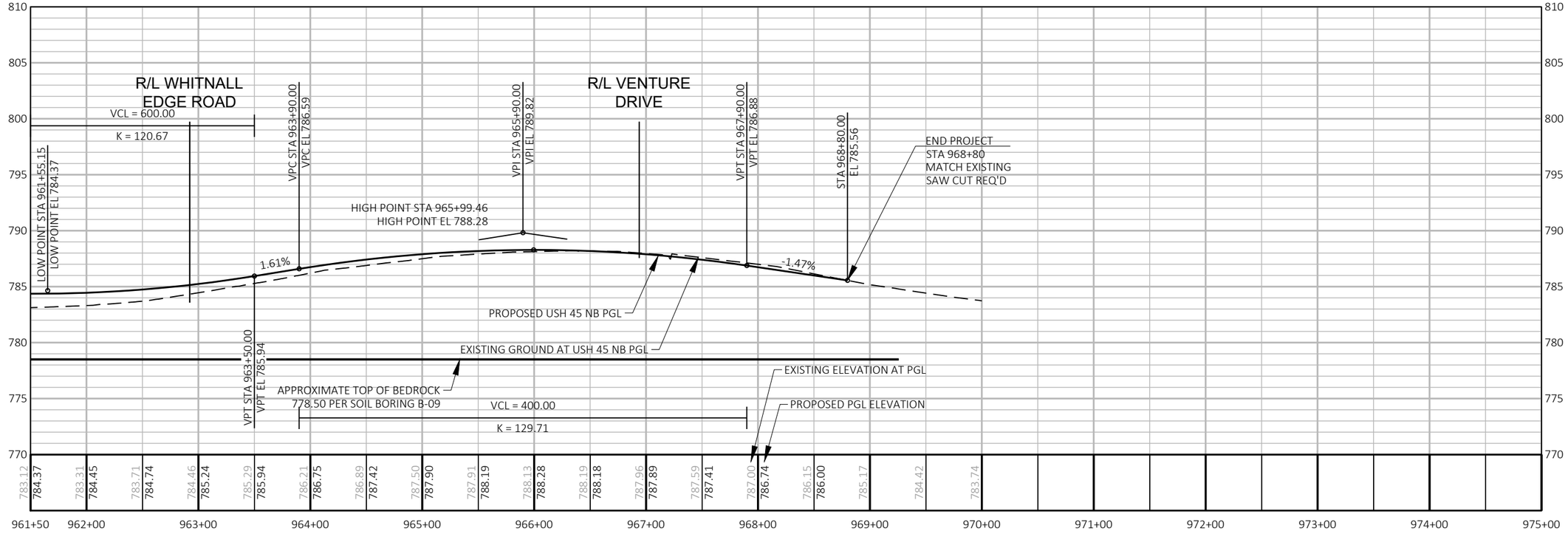
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN USH 45	SHEET 390	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\050101-PN.DWG
LAYOUT NAME - 050205

PLOT DATE : 4/25/2023 11:09 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

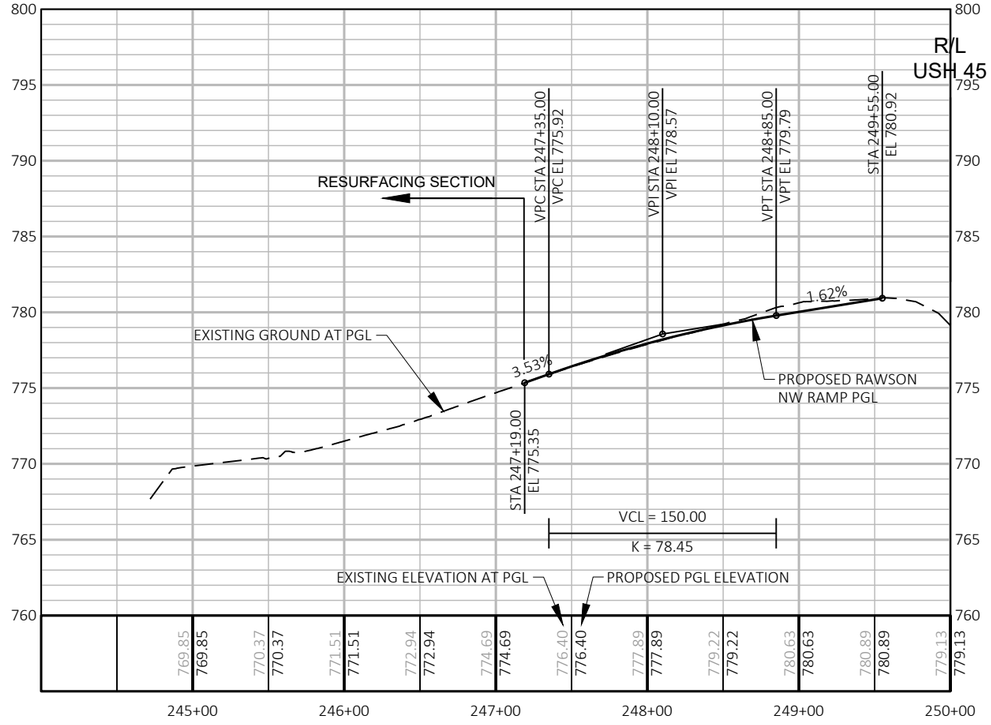
WISDOT/CADDS SHEET 44

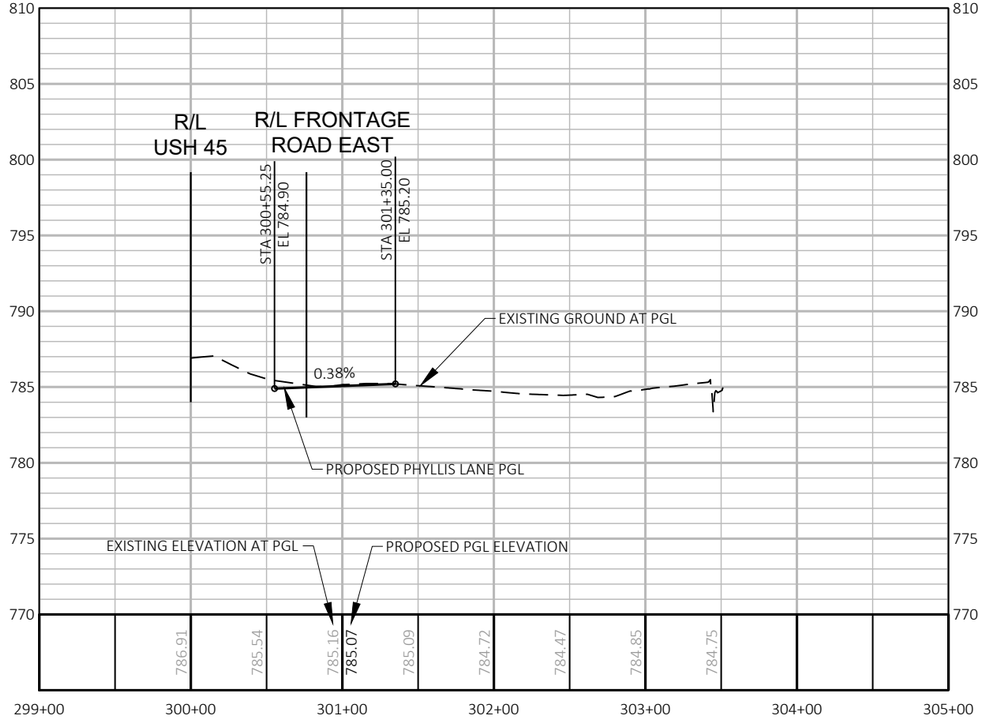




PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES USH 45	SHEET 391	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050301-PR.DWG
LAYOUT NAME - 050305
PLOT DATE : 4/25/2023 11:11 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



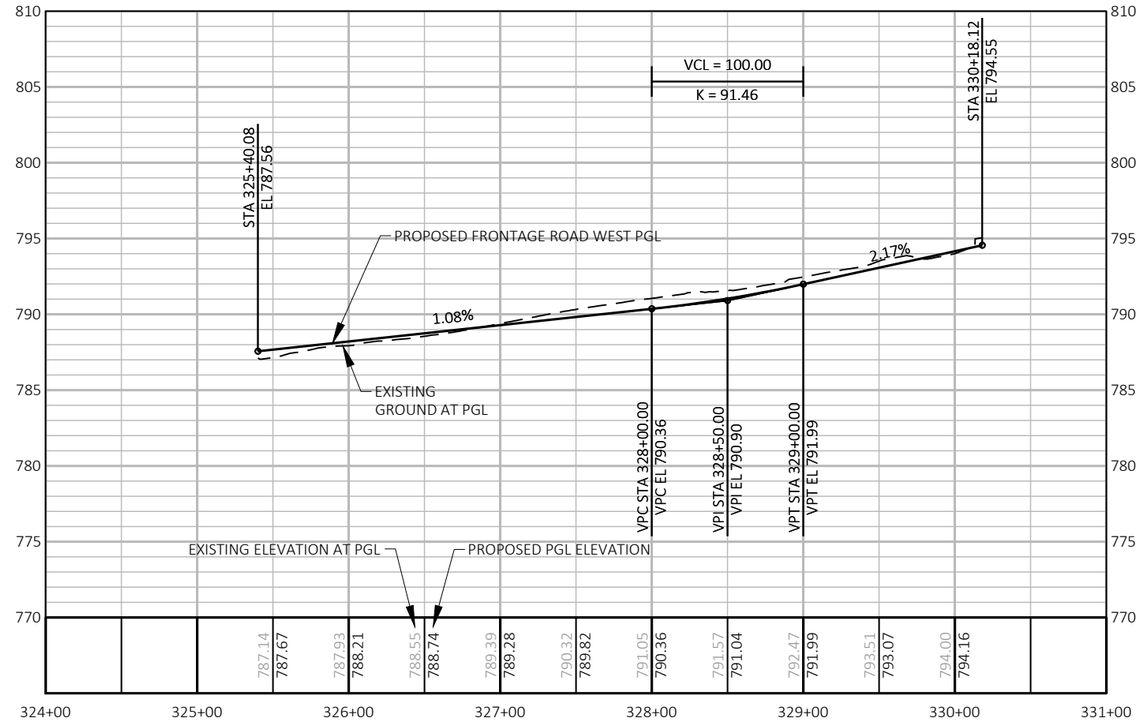


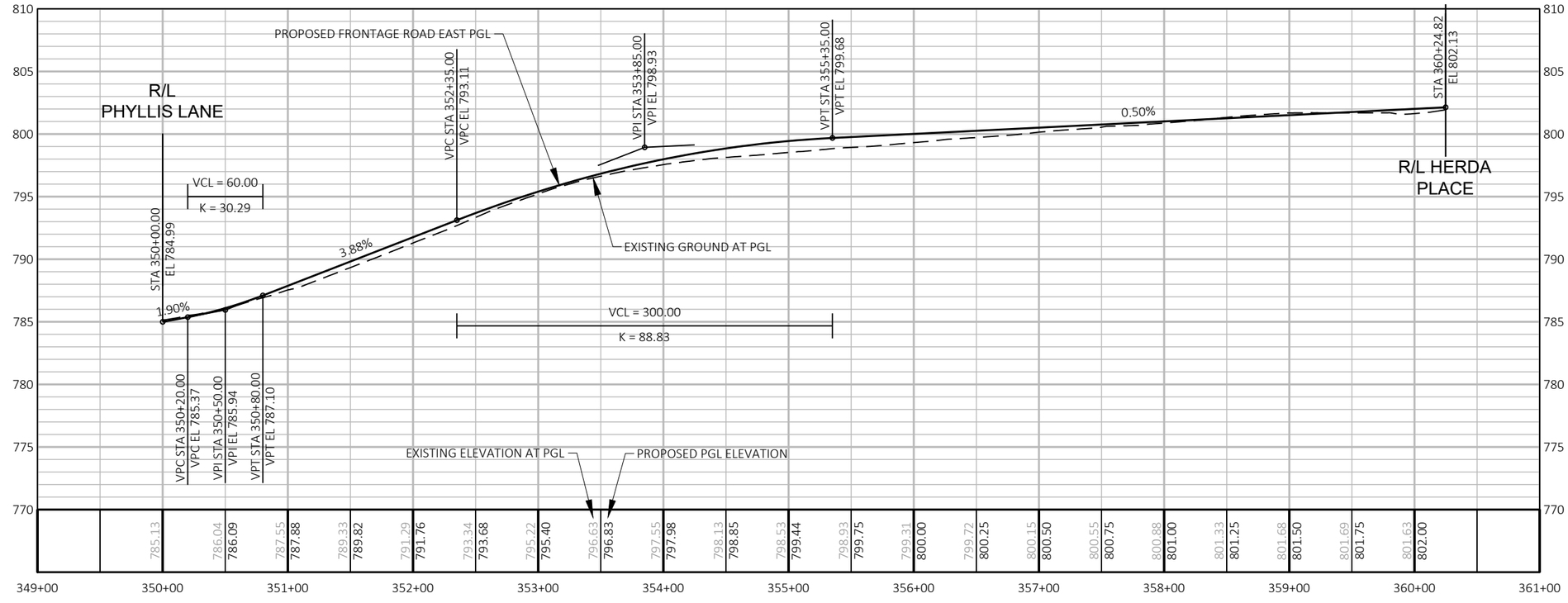
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES RAWSON NW RAMP, PHYLLIS LANE	SHEET 392	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050301-PR.DWG
LAYOUT NAME - 050307

PLOT DATE : 4/25/2023 11:12 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



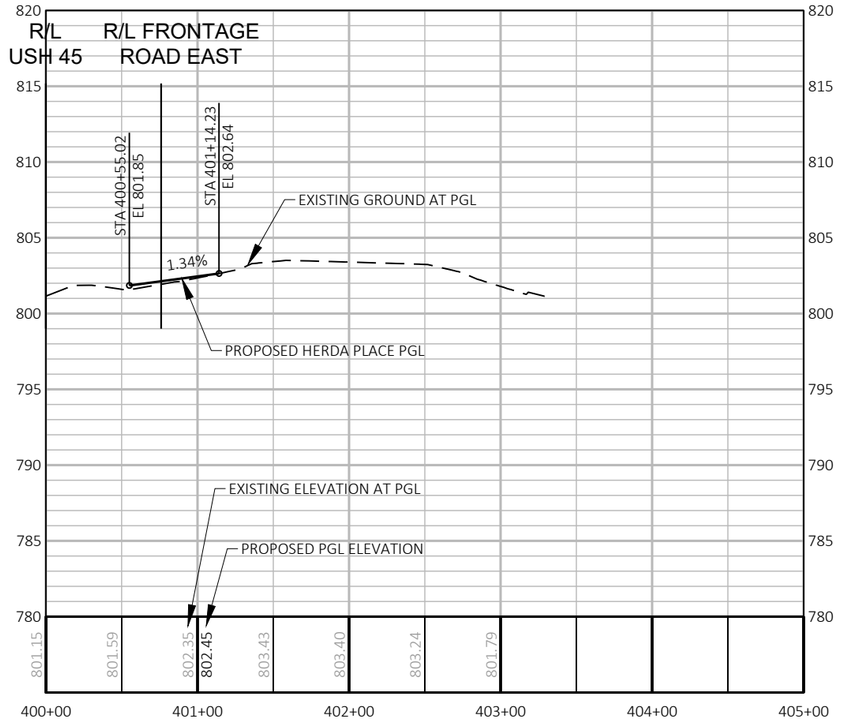


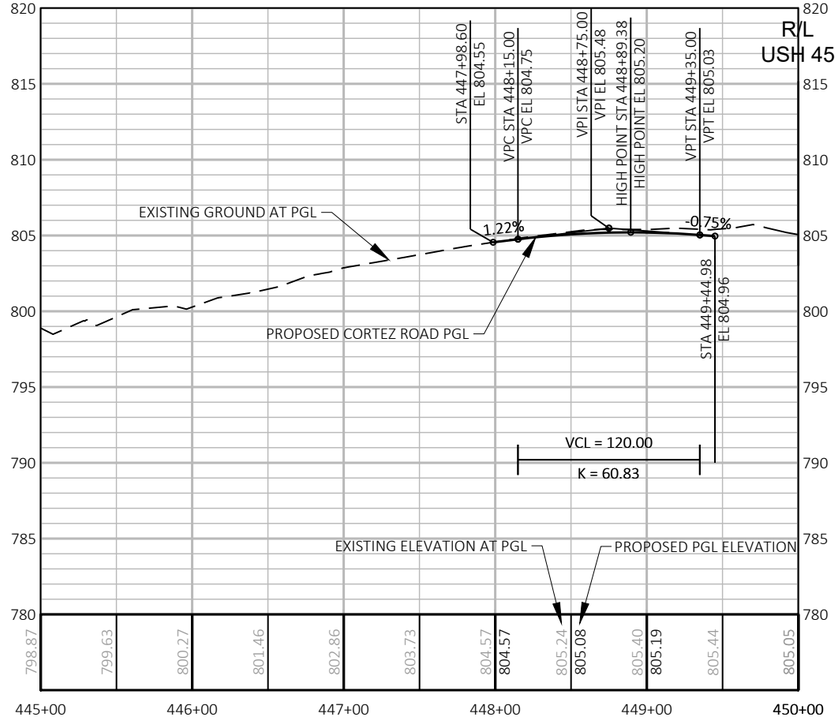
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES FRONTAGE ROAD WEST, FRONTAGE ROAD EAST	SHEET 393	E

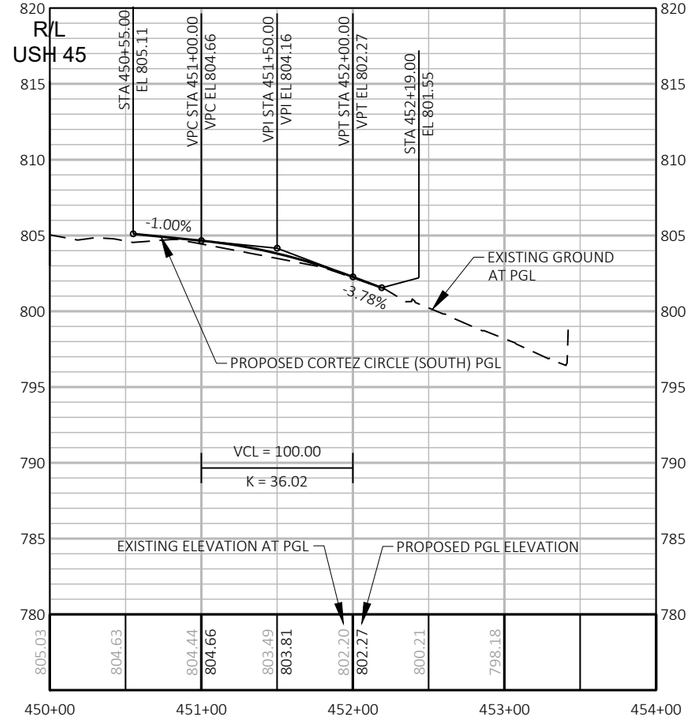
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050301-PR.DWG
LAYOUT NAME - 050306

PLOT DATE : 4/25/2023 11:12 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





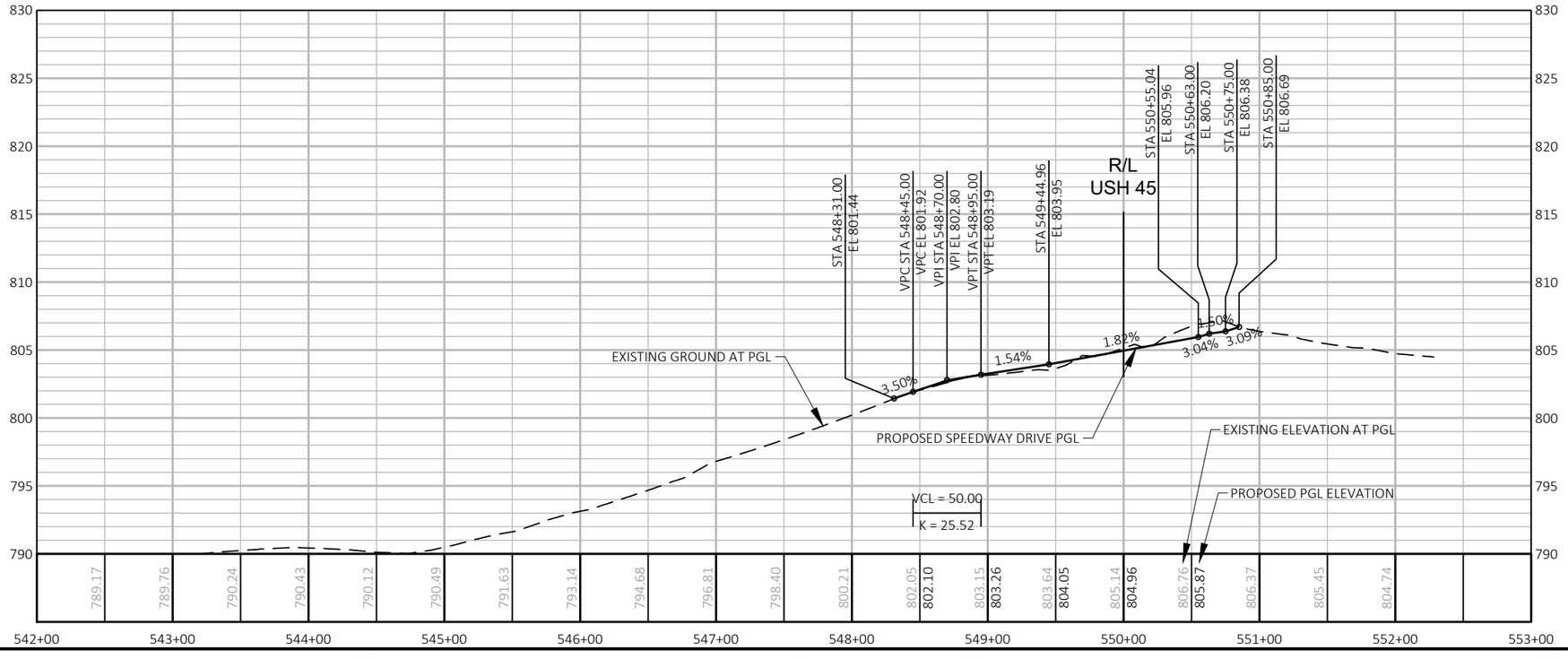


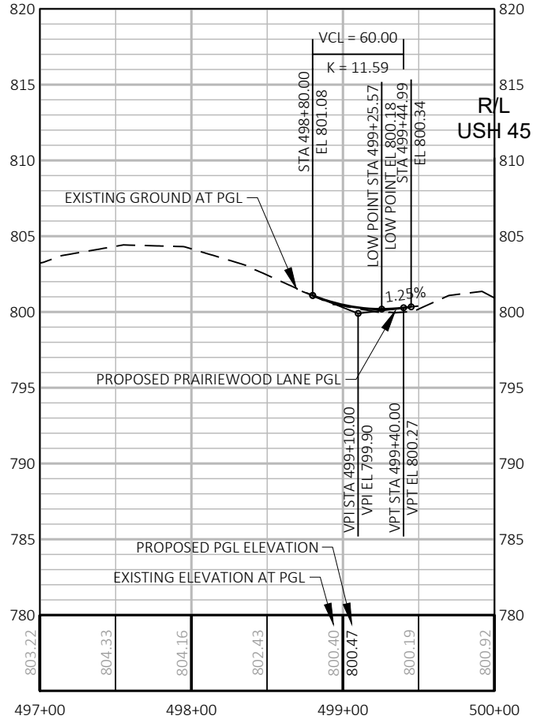
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES HERDA PLACE, CORTEZ ROAD, CORTEZ CIRCLE (SOUTH)	SHEET 394	E

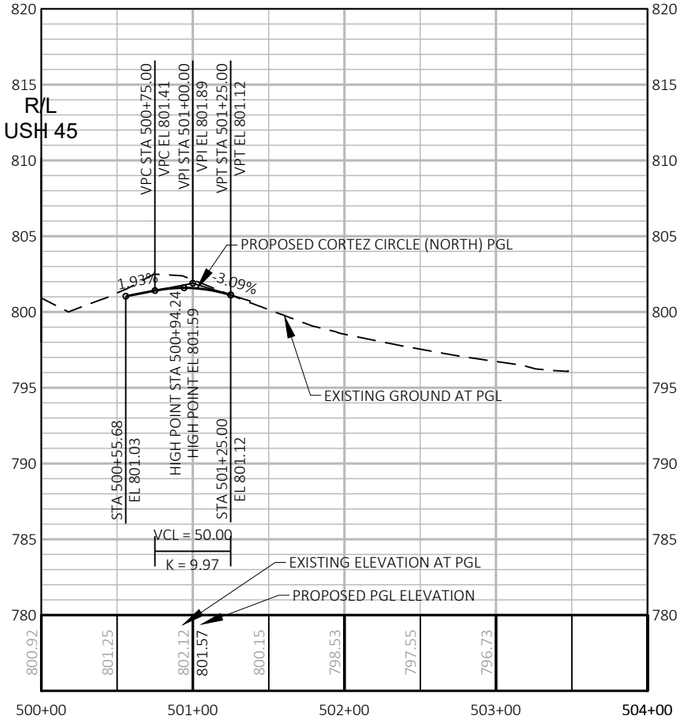
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050301-PR.DWG
LAYOUT NAME - 050308

PLOT DATE : 4/25/2023 11:13 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

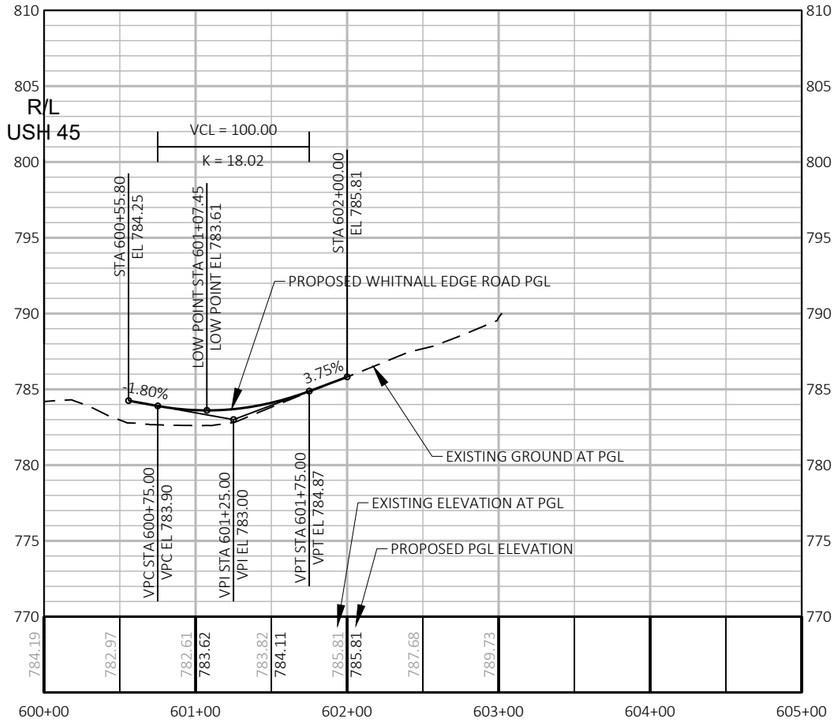
WISDOT/CADDS SHEET 44

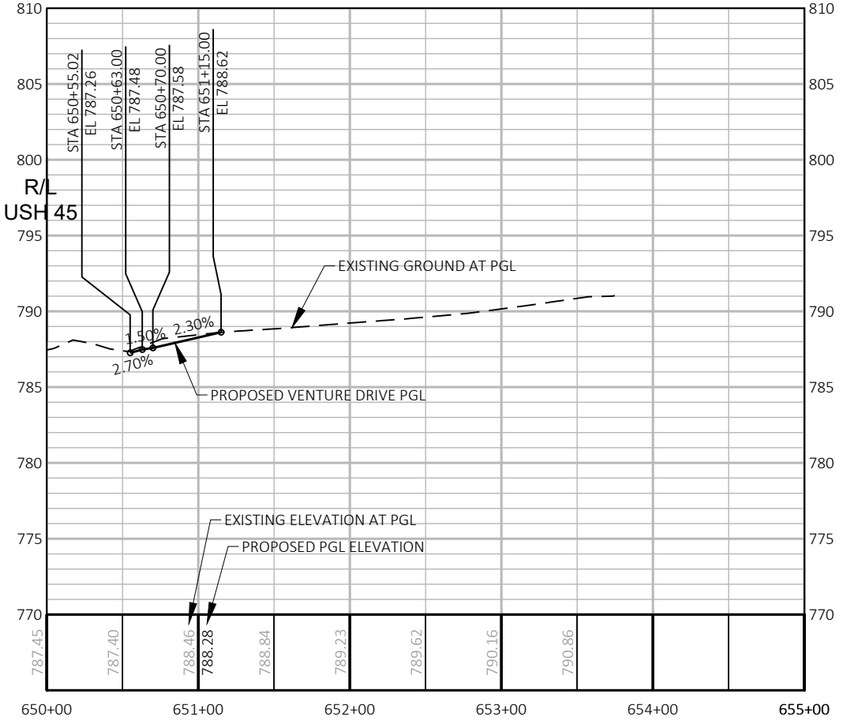






PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES SPEEDWAY DRIVE, PRAIRIEWOOD LANE, CORTEZ CIRCLE (NORTH)	SHEET 395	E





PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PROFILES WHITNALL EDGE ROAD, VENTURE DRIVE	SHEET 396	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\050301-PR.DWG
LAYOUT NAME - 050310

PLOT DATE : 4/25/2023 11:13 AM PLOT BY : THOMAS LEGEAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

N

5

5

RELOCATION FR1

RELOCATION FR3

RELOCATION FR4

RELOCATION FR5

RELOCATION FR7

USH 45

W CORTEZ ROAD

PRAIRIE WOOD LANE

RELOCATION FR9

SPEEDWAY DRIVE

RELOCATION FR8

WHITNALL EDGE RD

RELOCATION FR2

RELOCATION FR6

WATER MAIN RELOCATION (TYP)

PHYLLIS LANE

HERDA PLACE

S CORTEZ CIRCLE

N CORTEZ CIRCLE

RAWSON AVENUE

920 925 930 935 940 945 950 955 960 965 970 915 910

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	WATER MAIN RELOCATION OVERVIEW	SHEET 397	E

FILE NAME : C:\PW_WORKDIR\PW_IE\MLH2\D0627077\050201-PN.DWG
LAYOUT NAME - 01

PLOT DATE : 3/21/2023 7:35 AM PLOT BY : HEIN, MIKE PLOT NAME : PLOT SCALE : 1 IN:400 FT

RELOCATION FR1

EX. R/W
SI
TLE
SALVAGE EXIST HYDRANT
CONNECT TO EXIST HYD VALVE
STA 921+04.41, -94.97
REINSTALL SALVAGED
HYDRANT ASSEMBLY
STA 921+06.56, -104.77
EXISTING 16" WM
EXISTING 20" WM
RAWSON
NW RAMP
USH 45
N

RELOCATION FR2

WEST
FRONTAGE
ROAD
WV
EXISTING 8" WM
VERTICAL 45° BEND
STA 923+69.08, -11.86
CONNECT TO EXIST WM
INSTALL VERTICAL 45° BEND
STA 923+69.09, 3.66
VERTICAL 45° BEND
STA 923+69.09, -1.86
PHYLLIS
LANE
CONNECT TO EXISTING WM
INSTALL VERTICAL 45° BEND
STA 923+69.08, -17.48
PROPOSED STORM SEWER
USH 45
N

5

5

784
780
776
772
768

ORIGINAL GROUND
PROPOSED PROFILE
REINSTALL SALVAGED
HYDRANT ASSEMBLY
STA. 921+06.56, -104.77
6" INV. = 774.36
BURY DEPTH = 6.5'
10.1' 0.00% 6" PVC
SALVAGE EXIST HYDRANT
CONNECT TO EXIST HYD VALVE
STA. 921+04.41, -94.97
6" INV = 774.36

0+00
+50

784
780
776
772
770

ORIGINAL GROUND
PROPOSED PROFILE
INSULATE WATER MAIN 5LF
CONNECT TO EXISTING WM
INSTALL VERTICAL 45° BEND
STA. 923+69.08, -17.48
8" INV = 779.80
36" CLASS III
I.E. 778.20
CONNECT TO EXIST WM
INSTALL VERTICAL 45° BEND
STA. 923+69.09, 3.66
8" INV = 779.61
5.6' -100.53% 8" PVC
5.5' 100.72% 8" PVC
VERTICAL 45° BEND
STA. 923+69.08, -11.86
8" INV. = 774.15
VERTICAL 45° BEND
STA. 923+69.09, -1.86
8" INV = 774.05
INSULATE WATER MAIN 8LF
10.0' -1.00% 8" PVC

1+00
+50

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN AND PROFILE: WATER MAIN RELOCATION	SHEET 398	E

RELOCATION FR3

PLUG EXISTING TEE AND BUTTRESS PLUG

SALVAGE AND RELOCATE EXISTING HYDRANT ASSEMBLY

NEW R/W

WEST FRONTAGE ROAD

NEW 20" x 6" TAPPING SADDLE AND SLEEVE STA 923+78.82, -71.80

SALVAGE AND RETURN EXISTING VALVE TO CITY

PROPOSED STORM SEWER

TLE

WV

REINSTALL SALVAGED HYDRANT ASSEMBLY STA 923+79.95, -91.62

NEW 6" HYD VALVE STA 923+78.99, -74.79

EXISTING 20" WM

SI

OLD R/W

USH 45

RELOCATION FR4

EXISTING 20" WM

NEW R/W

SALVAGE AND RETURN EXISTING VALVE TO CITY

USH 45

REINSTALL SALVAGED HYDRANT ASSEMBLY STA 927+61.15, -91.63

NEW 6" HYD VALVE STA 927+61.17, -64.90

REMOVE EXIST HYDRANT TEE INSTALL NEW 20" x 6" MJ HYD TEE & 2 SLEEVES STA 927+61.17

SI

TLE

OLD R/W

WEST FRONTAGE ROAD

928+00

5

5

ORIGINAL GROUND

REINSTALL SALVAGED HYDRANT ASSEMBLY STA. 923+79.95, -91.62 6" INV = 779.80 BURY DEPTH = 7.5'

PROPOSED PROFILE

3.0' 0.00% 6" PVC

16.9' 0.00% 6" PVC

NEW 20" x 6" TAPPING SADDLE AND SLEEVE STA. 923+78.82, -71.80 6" INV = 779.80

NEW 6" HYD VALVE STA. 923+78.99, -74.79 6" INV = 779.80

788 784 780 776 774

2+00 +50

ORIGINAL GROUND

REINSTALL SALVAGED HYDRANT ASSEMBLY STA. 927+61.15, -91.63 6" INV = 787.49 BURY DEPTH = 5.5'

PROPOSED PROFILE

REMOVE EXIST HYDRANT TEE INSTALL NEW 20" x 6" MJ HYD TEE & 2 SLEEVES STA. 927+61.17, -61.90 6" INV = 787.49

3.0' 0.00% 6" PVC

26.7' 0.00% 6" PVC

NEW 6" HYD VALVE STA. 927+61.17, -64.90 6" INV = 787.49

796 792 788 784 780

3+00 +50

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN AND PROFILE: WATER MAIN RELOCATION	SHEET 399	E

RELOCATION FR5

N

CONNECT TO EXISTING
INSTALL VERTICAL 11 1/4° BEND
STA 933+91.04, -18.33

VERTCIAL 11 1/4° BEND
STA 933+91.09, -3.00

934+00

VERTICAL 11 1/4° BEND
STA 933+91.06, -13.00

EXISTING 8" WM

CONNECT TO EXISTING
INSTALL VERTICAL 11 1/4° BEND
STA 933+91.09, 2.33

HERDA PLACE

USH 45

PROPOSED STORM SEWER

RELOCATION FR6

USH 45

NEW R/W

EXISTING 8" WM

PROPOSED STORM SEWER

SALVAGE AND RETURN EXISTING
VALVE AND HYDRANT TO CITY

HERDA PLACE

SI

NEW HYDRANT ASSEMBLY
STA 934+11.69, 89.42

TLE

EX. R/W

REMOVE EXIST HYDRANT VALVE
CONNECT TO EXIST 8" x 6" HYD TEE
STA 933+95.21, 89.69

NEW 6" HYD VALVE
STA 934+08.69, 89.50

5

5

ORIGINAL GROUND

PROPOSED PROFILE

10.0' 0.00% 8" PVC

INSULATE WATER MAIN 16LF

VERTICAL 11 1/4° BEND
STA. 933+91.06, -13.00
8" INV = 795.90

VERTCIAL 11 1/4° BEND
STA. 933+91.09, -3.00
8" INV = 795.90

INSULATE WATER MAIN 6LF

INSULATE WATER MAIN 6LF

5.3' -24.02% 8" PVC

5.3' -24.95% 8" PVC

CONNECT TO EXISTING
INSTALL VERTICAL 11 1/4° BEND
STA. 933+91.04, -18.33
8" INV = 794.57

CONNECT TO EXISTING
INSTALL VERTICAL 11 1/4° BEND
STA. 933+91.09, 2.33
8" INV = 794.62

INSULATE WATER MAIN 8LF

INSULATE WATER MAIN 5LF

INSULATE WATER MAIN 5LF

36" CLASS III
I.E. 790.86

800 796 792 788 786

4+00 +50

ORIGINAL GROUND

PROPOSED PROFILE
NEW HYDRANT ASSEMBLY
STA. 934+11.69, 89.42
6" INV = 795.59
BURY DEPTH = 6.5'

NEW 6" HYD VALVE
STA. 934+08.69, 89.50
6" INV = 795.59

3.0' 0.00% 6" PVC

REMOVE EXIST HYDRANT VALVE
CONNECT TO EXIST 8" x 6" HYD TEE
STA. 933+95.21, 89.69
6" INV = 795.59

13.5' 0.00% 6" PVC

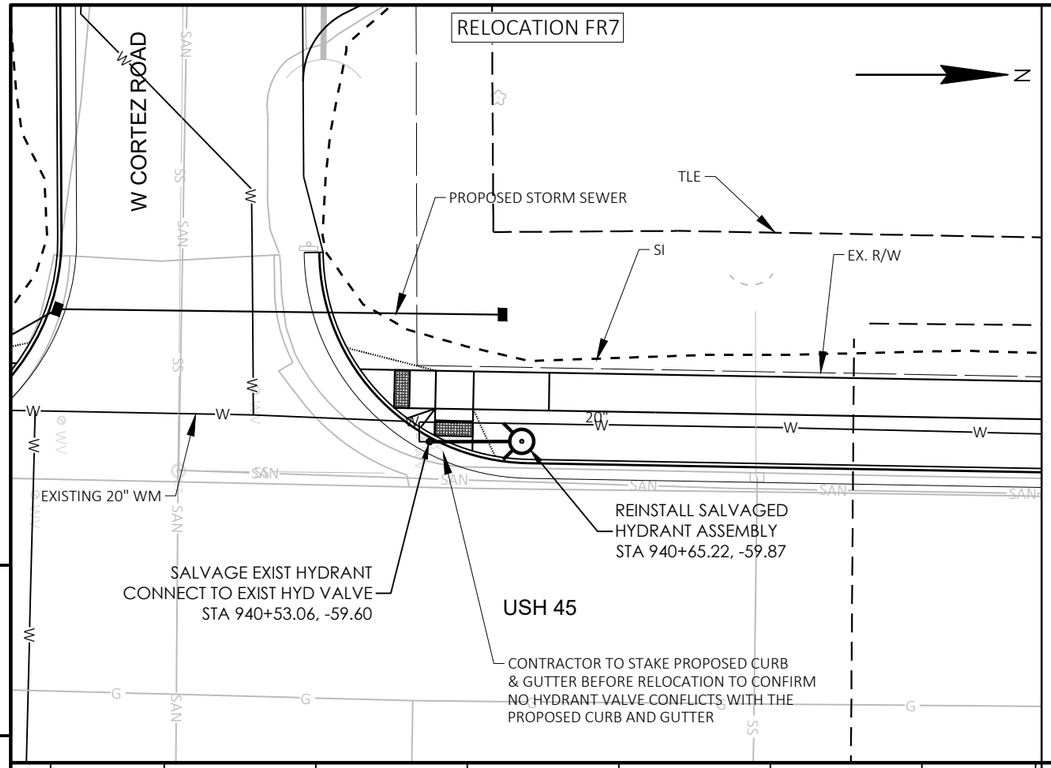
804 800 796 792 790

5+00 +50

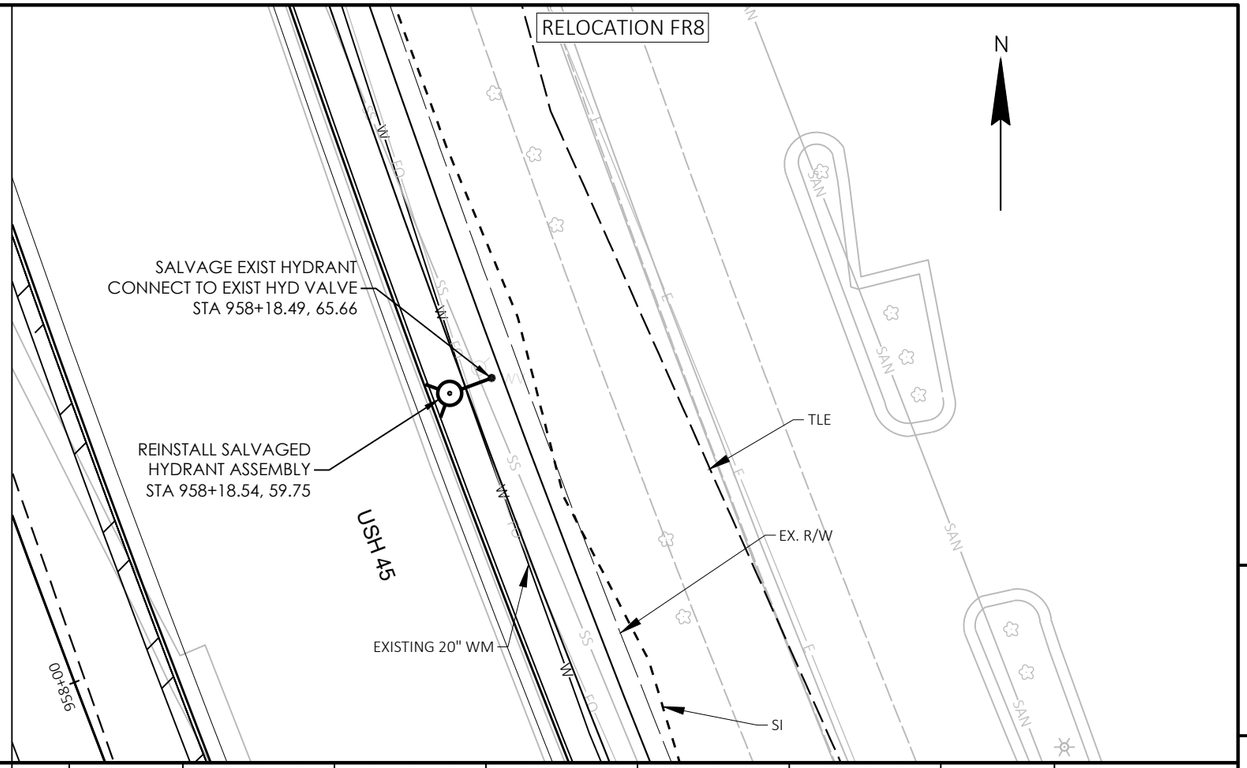
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN AND PROFILE: WATER MAIN RELOCATION	SHEET 400	E

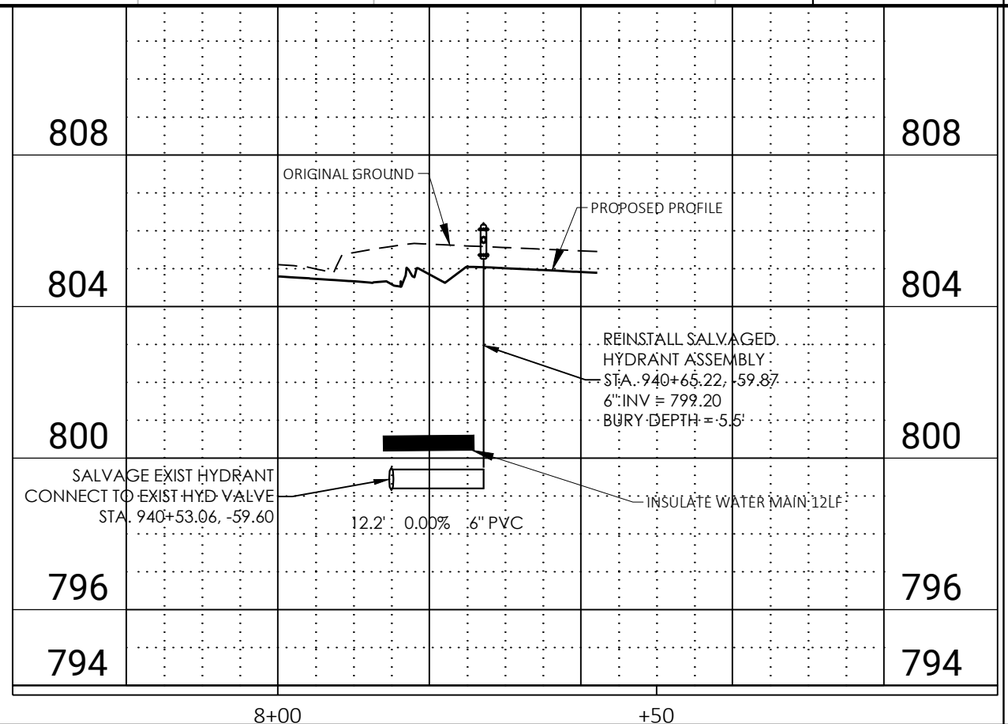
FILE NAME : C:\PW_WORKDIR\PW_IE\MLH2\D0627077\050101-PP.DWG
LAYOUT NAME - 03
PLOT DATE : 3/21/2023 7:31 AM
PLOT BY : HEIN, MIKE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

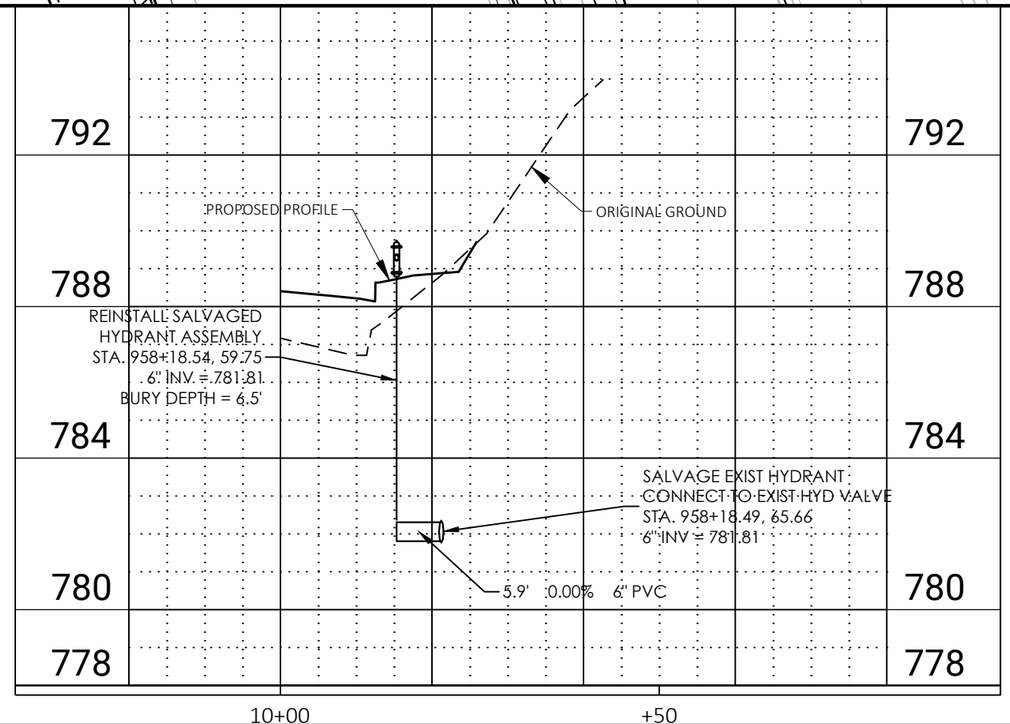
RELOCATION FR7



RELOCATION FR8







PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN AND PROFILE: WATER MAIN RELOCATION	SHEET 401	E

FILE NAME : C:\PW_WORKDIR\PW_IE\MLH2\D0627077\050101-PP.DWG
LAYOUT NAME - 04

PLOT DATE : 3/21/2023 7:29 AM PLOT BY : HEIN, MIKE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 44

RELOCATION FR9

N

PRAIRIE WOOD LANE

N CORTEZ CIRCLE

USH 45

PROPOSED STORM SEWER

EXISTING 20" WM

CONNECT TO EXISTING
REMOVE EXIST VERTICAL BEND
STA 945+67.28, -48.82

CONNECT TO EXISTING
INSTALL VERTICAL 45° BEND
STA 945+66.24, 0.54

NEW 8" GATE VALVE
STA 945+55.88, 74.43

CONNECT TO EXISTING
STA 945+55.36, 78.40

EXISTING 8" WM

CONNECT TO EXISTING
STA 945+56.53, 69.48

EXISTING 20" WM

VERTICAL 45° BEND
STA 945+66.33, -3.96

NEW R/W

EX. R/W

SALVAGE AND RETURN
EXISTING VALVE TO CITY

EX. R/W

SI

EXISTING 20" WM

TLE

ORIGINAL GROUND

PROPOSED PROFILE

INSULATE WATER MAIN 41LF

CONNECT TO EXISTING
INSTALL VERTICAL 45° BEND
STA. 945+66.24, 0.54
20" INV = 793.90

5.0' 2.50% 8" PVC

NEW 8" GATE VALVE
STA. 945+55.88, 74.43
8" INV = 794.50

CONNECT TO EXISTING
STA. 945+55.36, 78.40
8" INV = 794.60

CONNECT TO EXISTING
REMOVE EXIST VERTICAL BEND
STA. 945+67.28, -48.82
20" INV = 789.60

30" CLASS III
I.E. 793.75

4.5' 91.11% 20" DIP

4.0' 2.50% 8" PVC

44.9' 0.45% 20" DIP

INSULATE WATER MAIN 60LF

CONNECT TO EXISTING
STA. 945+56.53, 69.48
8" INV = 794.37

VERTICAL 45° BEND
STA. 945+66.33, -3.96
20" INV = 789.80

INSULATE WATER MAIN 8LF

800 796 792 788 786

9+00 +50 10+00 +50

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PLAN AND PROFILE: WATER MAIN RELOCATION	SHEET 402	E

FILE NAME : C:\PW_WORKDIR\PW_IE\MLH2\D0627077\050101-PP.DWG
LAYOUT NAME - 05

PLOT DATE : 3/21/2023 7:28 AM PLOT BY : HEIN, MIKE PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-03	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-03	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
09B02-10	CONDUIT
09B04-12	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C05-10	CONCRETE CONTROL CABINET BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09C13-03	CONCRETE BASE TYPE 10 & TYPE 13 EXTENSION
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09C16-01	CONCRETE BASE TYPE 10 SPECIAL EXTENSION
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09D05-02	L30 LIGHTING CONTROL CABINET 240/480 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09F08-04	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B02-02	CONCRETE MEDIAN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13C19-03	HMA LONGITUDINAL JOINTS
14B28-04A	GUARDRAIL MOW STRIP
14B28-04B	GUARDRAIL MOW STRIP
14B32-10A	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-10B	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-10C	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-10D	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-10E	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-10F	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-10G	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-10H	CONCRETE BARRIER SINGLE SLOPE (CBSS)

6

Standard Detail Drawing List

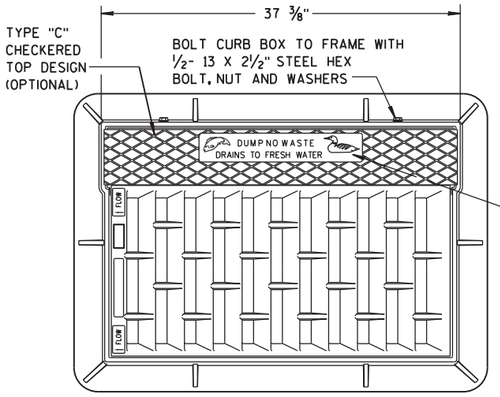
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A04-07B	BARRIER WALL DELINEATOR WITH REFLECTIVE SHEETING
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C08-22B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15C18-07A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-07B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-07C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-08A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-08C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C29-07A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-05	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D11-08	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-10A	TRAFFIC CONTROL, LANE CLOSURE
15D12-10B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D16-05	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-06A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-05	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23-07A	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D23-07B	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D30-08A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-08C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING

6

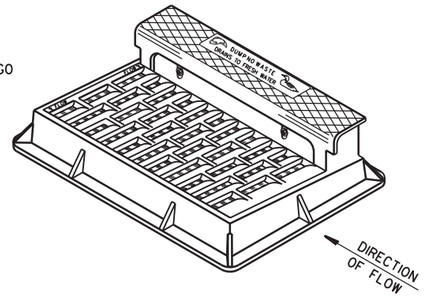
Standard Detail Drawing List

15D40-04A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-04B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D40-04C	TRAFFIC CONTROL, PARTIAL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-04D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D41-02	TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD
15D46-01	TRAFFIC CONTROL, ONE - WAY SIGNING
15D47-02B	TRAFFIC CONTROL, INGRESS/EGRESS WITHOUT BARRIER

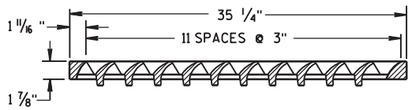
6

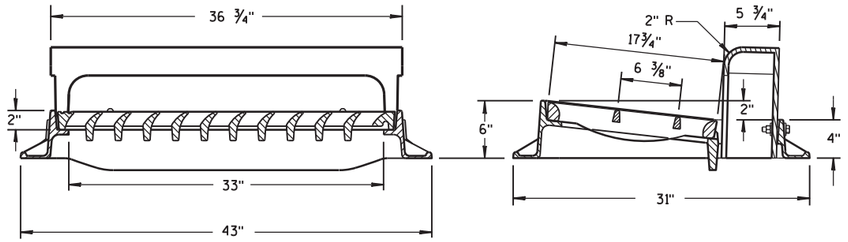


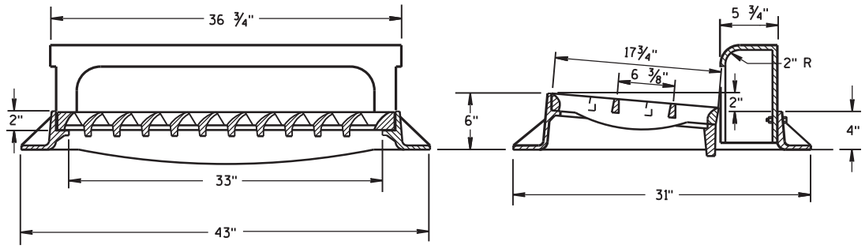
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

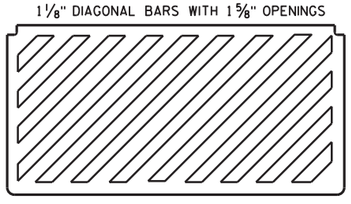






TYPE "H"

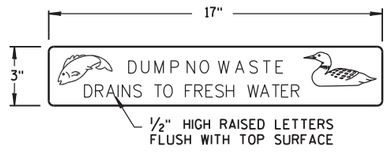
NOTE: EITHER CASTING IS ACCEPTABLE



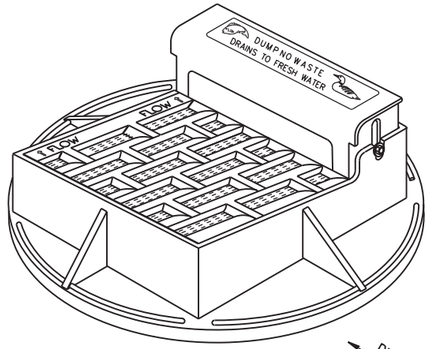
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

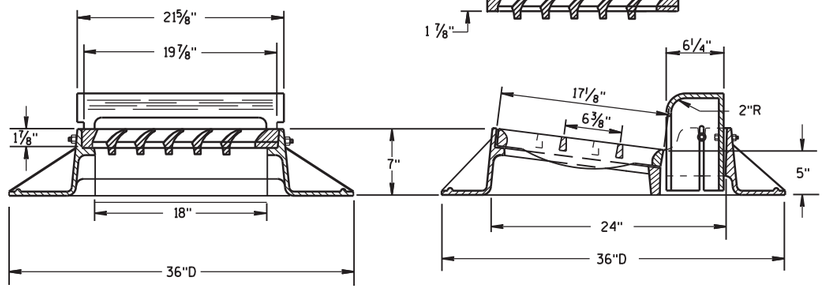


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



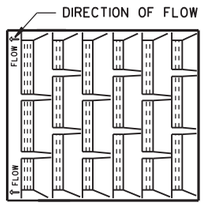
TYPE "A"

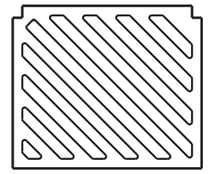
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

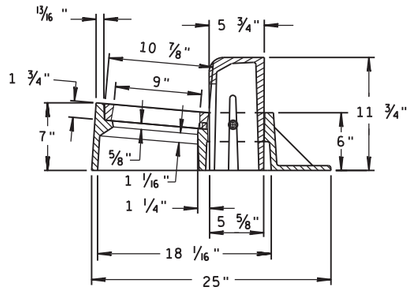


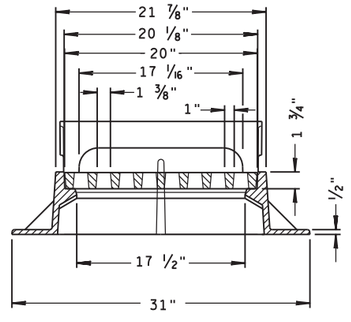


SPECIAL GRATE FOR TYPE "A" COVER

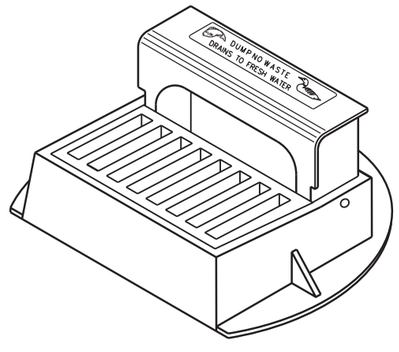
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

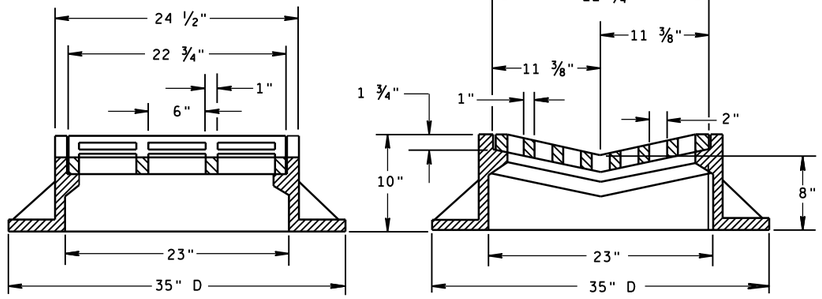
APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

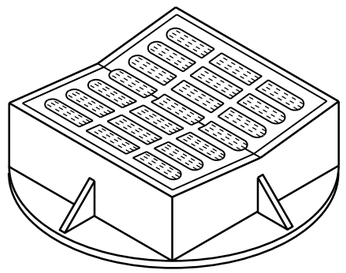
6

S.D.D. 8 A 5-19a

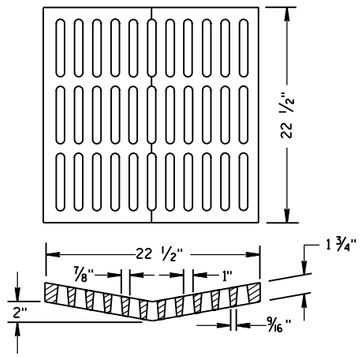
6

S.D.D. 8 A 5-19a



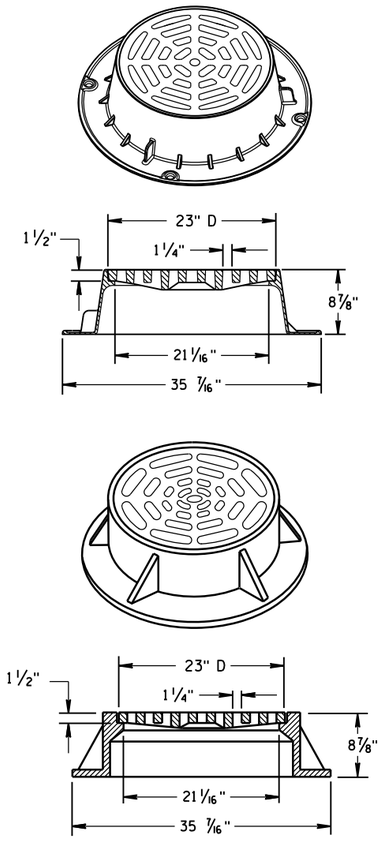


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

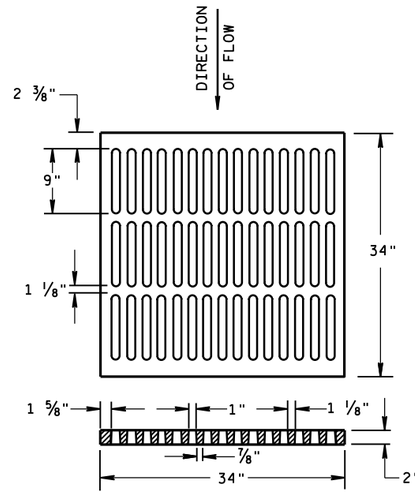
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

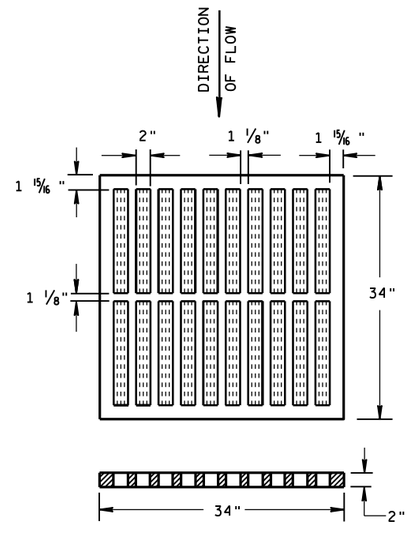
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



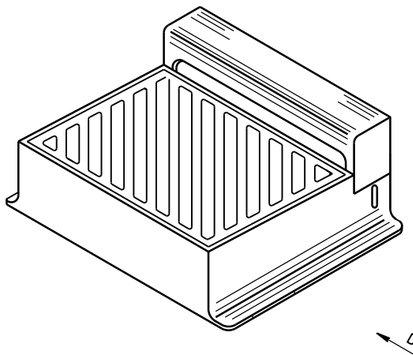
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



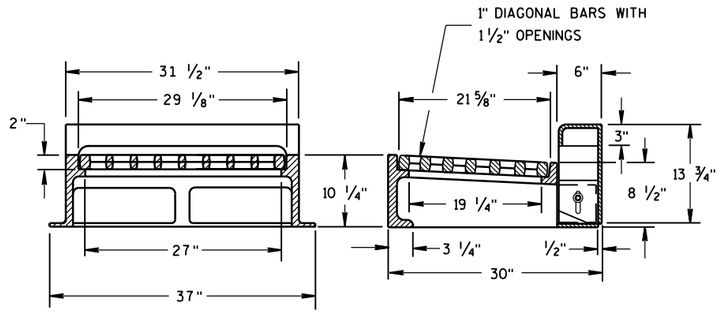
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

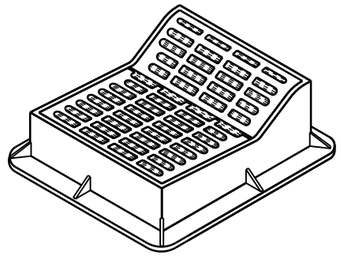
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

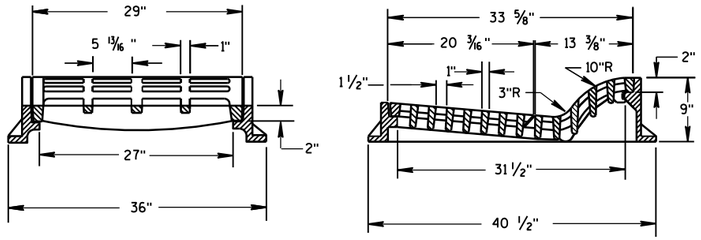
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

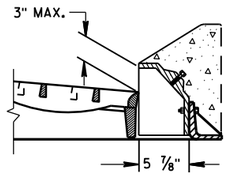
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

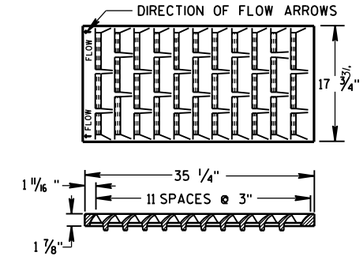
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

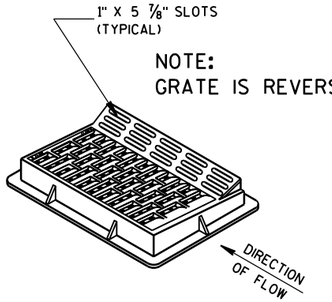
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

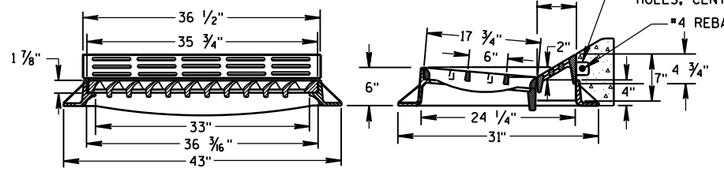
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



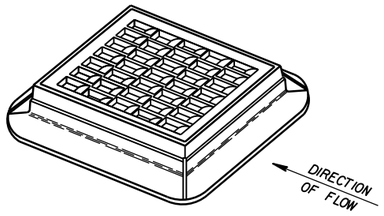


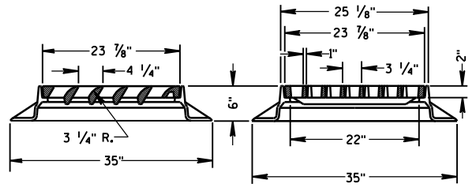


TYPE "HM"

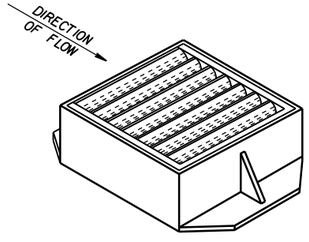
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

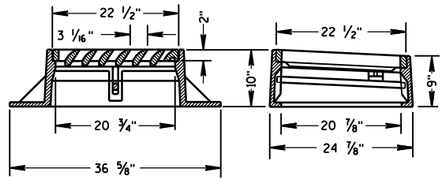
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



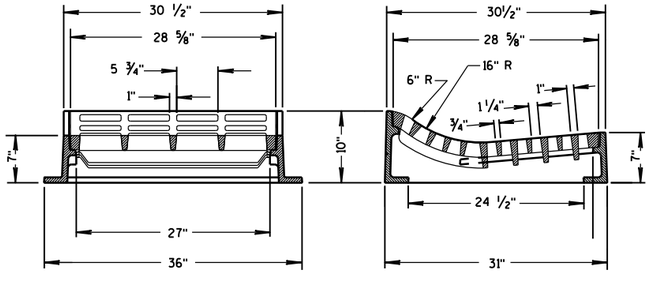


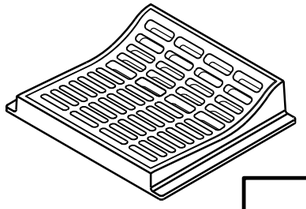
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

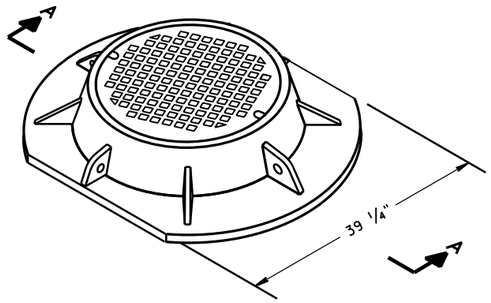
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

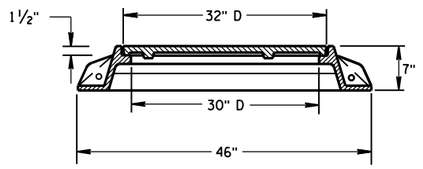
408

FHWA

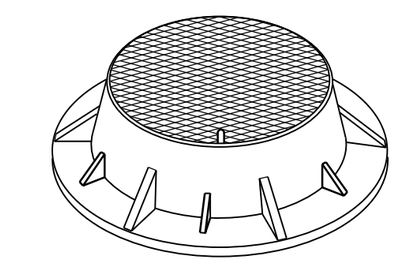
6

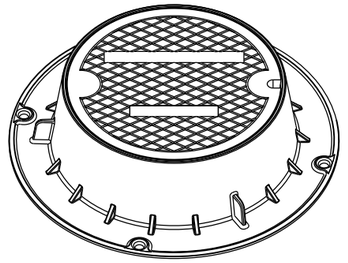
S.D.D. 8 A 5-19c

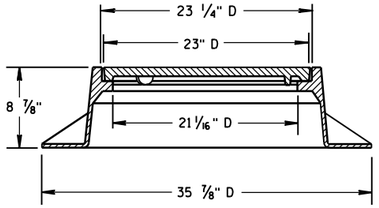


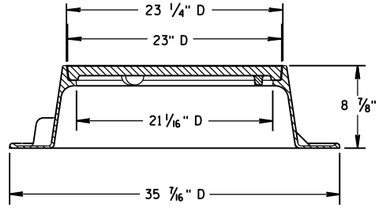


SECTION A-A
TYPE "K"









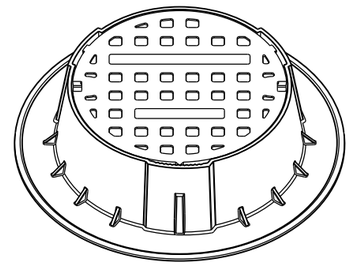
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

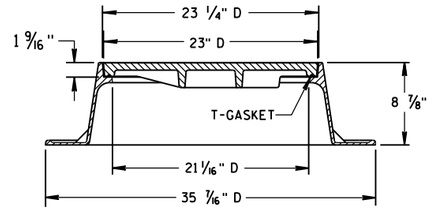
GENERAL NOTES

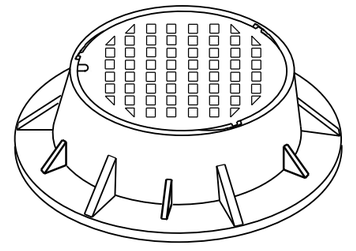
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

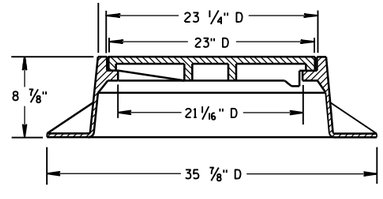
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

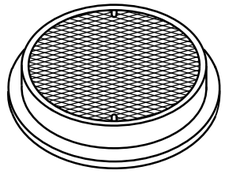


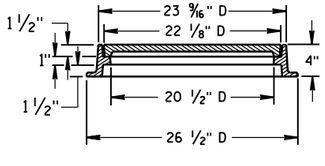




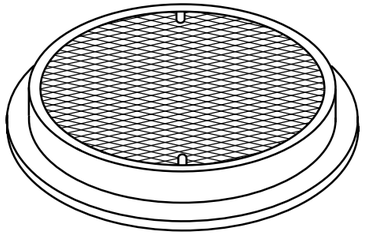


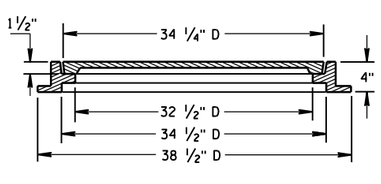
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



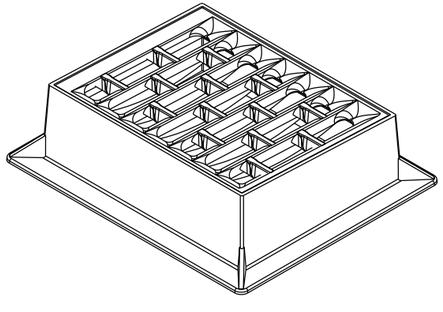


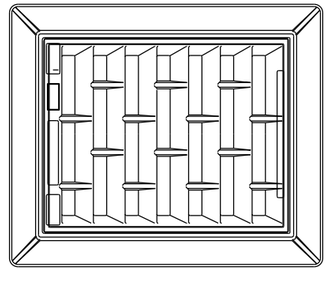
TYPE "L"

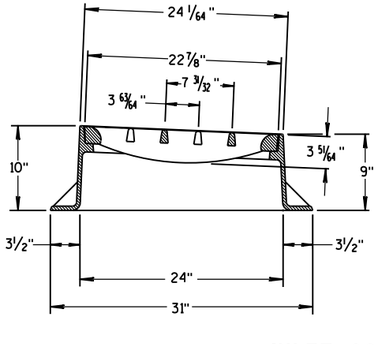


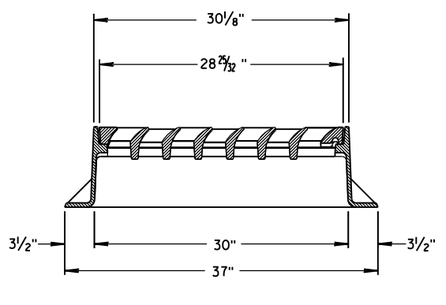


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

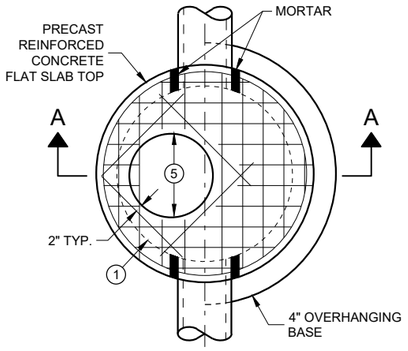
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

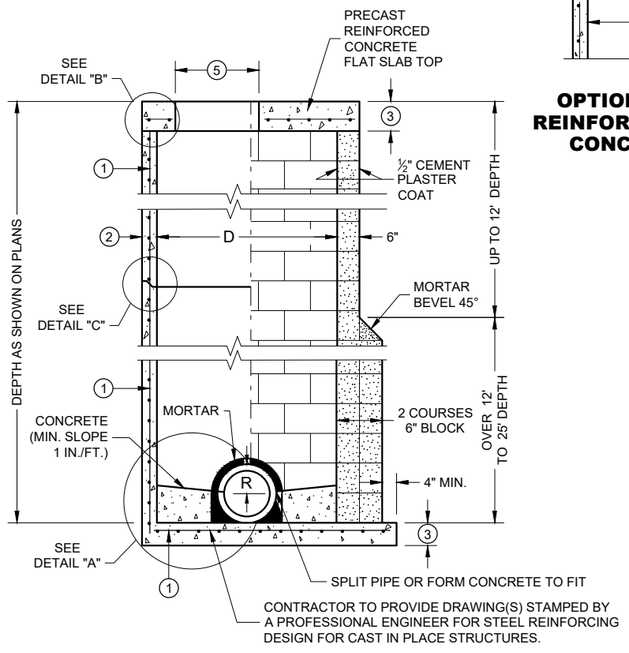
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d



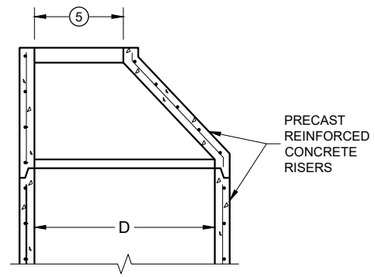
PLAN VIEW
CIRCULAR OPENING



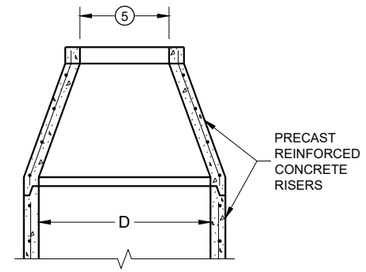
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

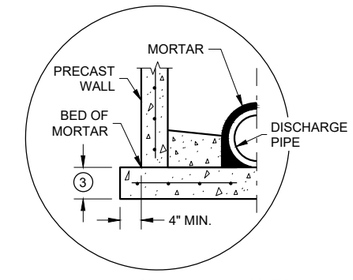
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

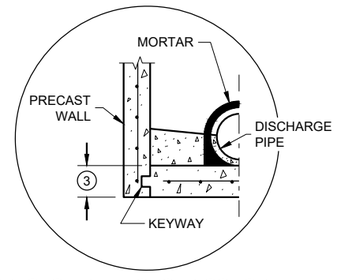
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES.
SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

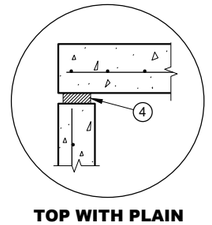


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

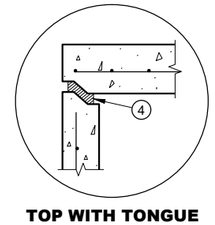


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"

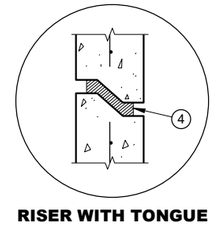


TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

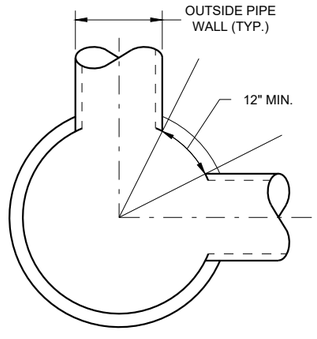
(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.).

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

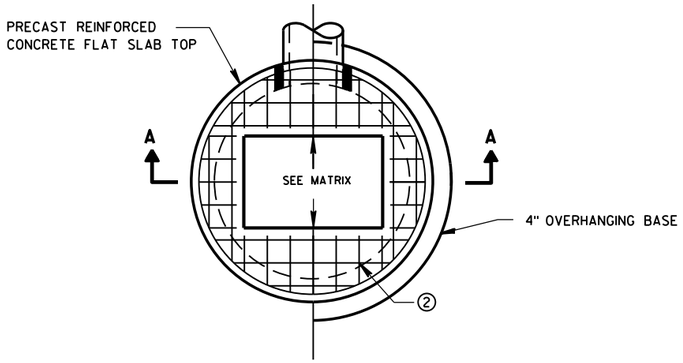
MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

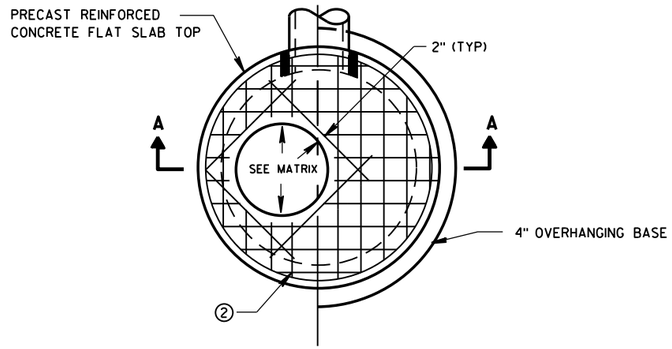
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
410
FHWA

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

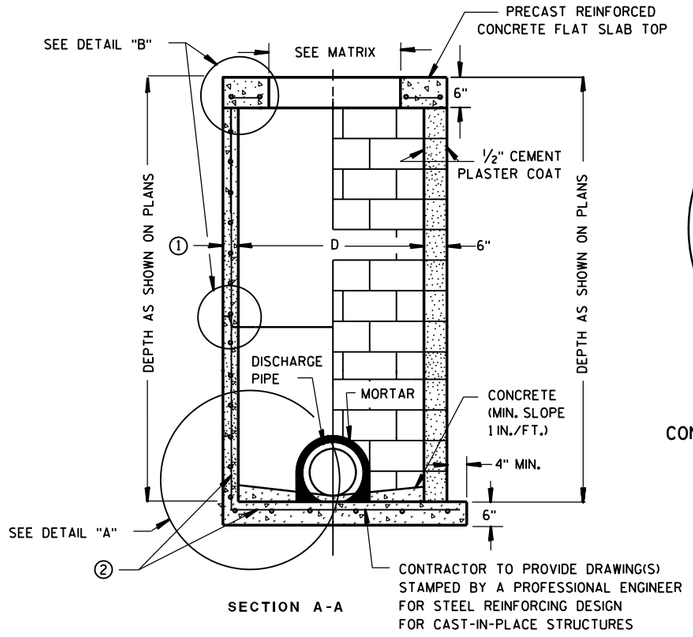
6
SDD 08B09 - 03



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

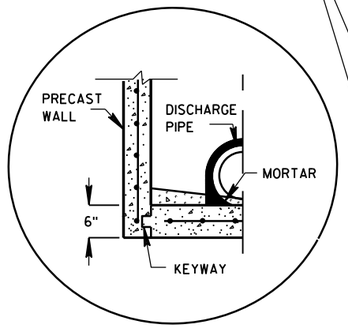


SECTION A-A

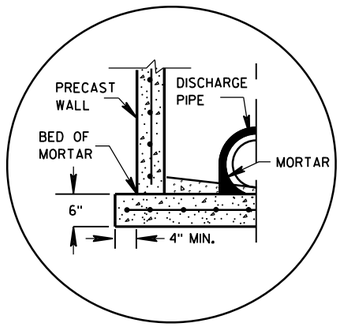
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

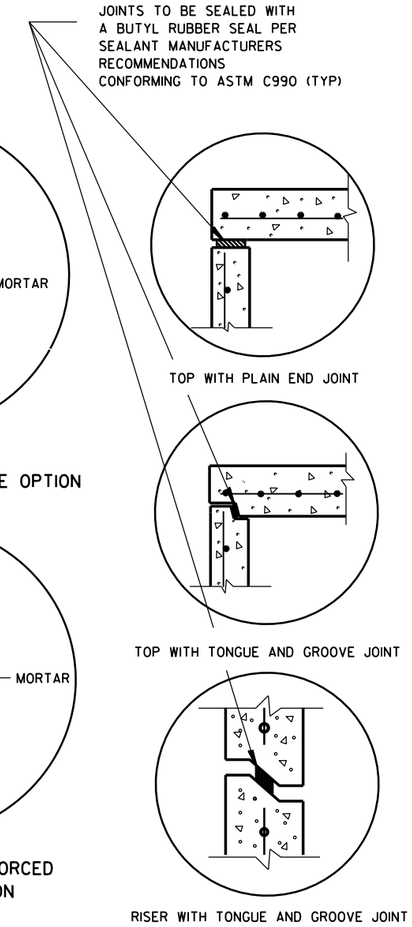


PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

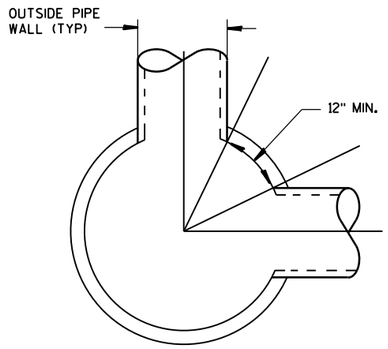
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

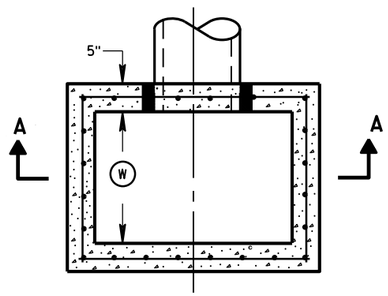
APPROVED
Sept.. 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

6

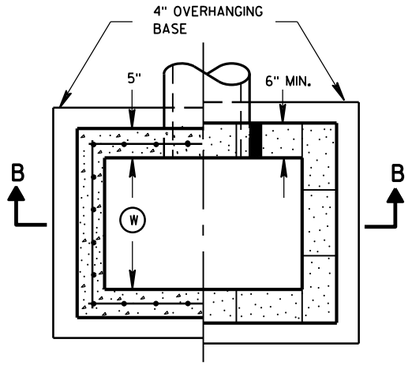
S.D.D. 8 C 6-2

6

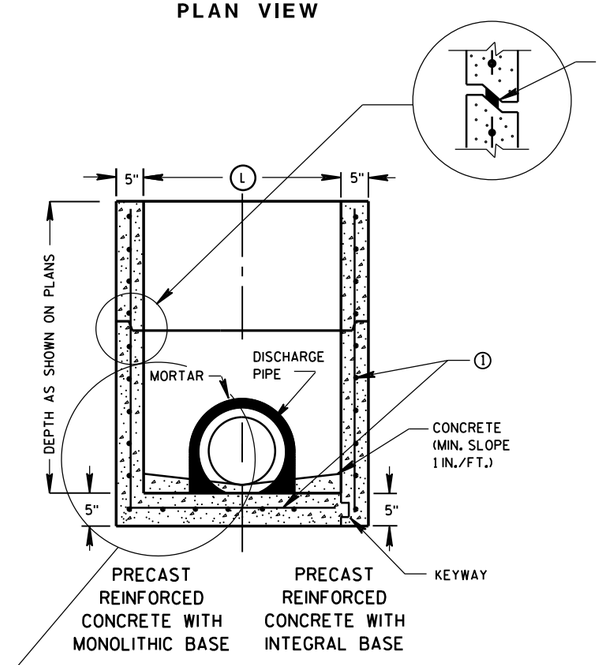
S.D.D. 8 C 6-2



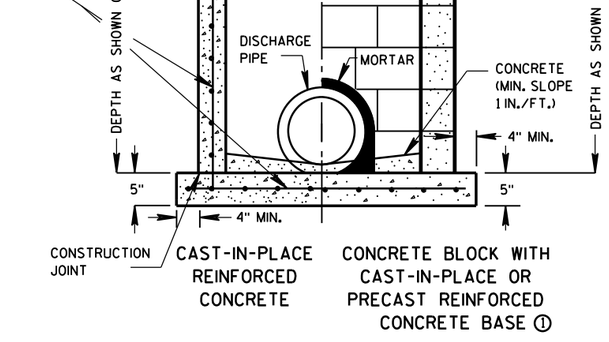
PLAN VIEW



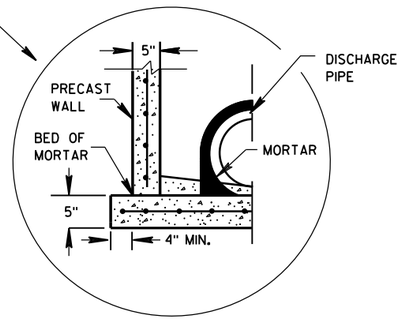
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

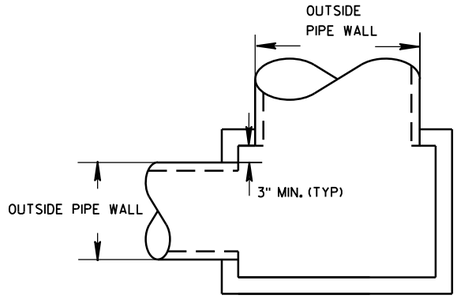
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

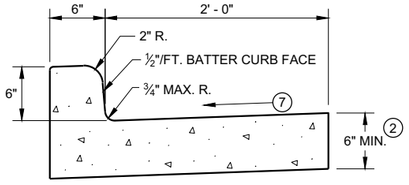
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

6

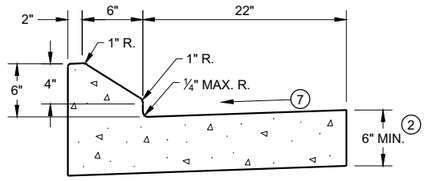
S.D.D. 8 C 7-2

6

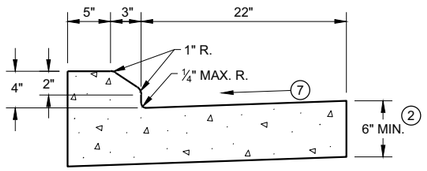
S.D.D. 8 C 7-2



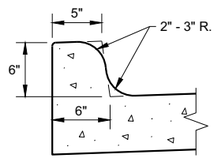
TYPES A (1) & D



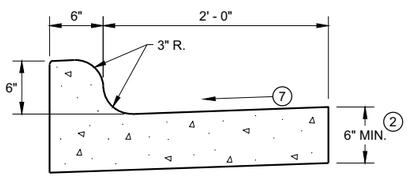
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

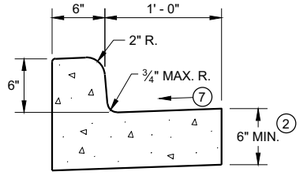


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



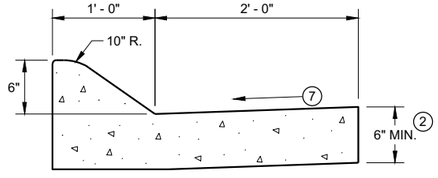
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

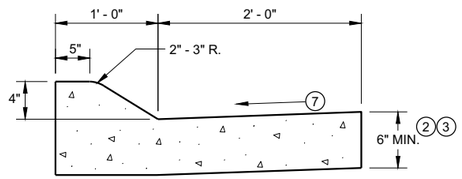


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

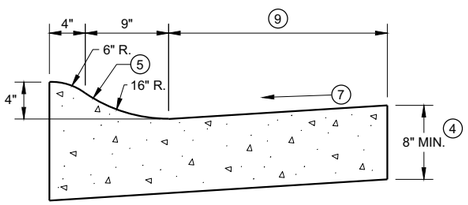


6" SLOPED CURB TYPES A (1) & D



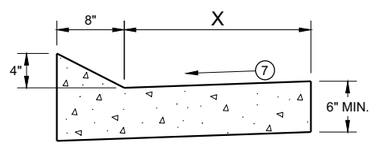
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

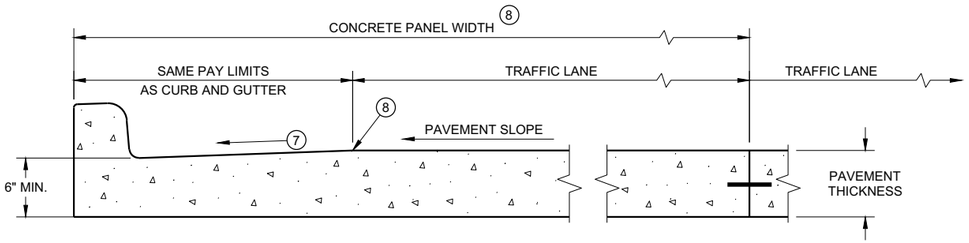


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

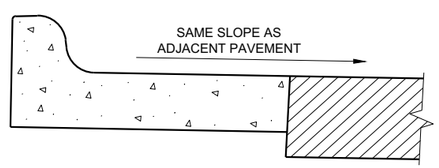
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

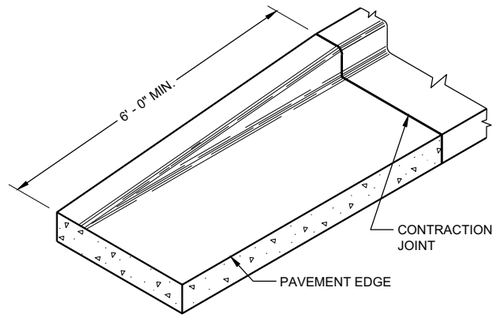
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

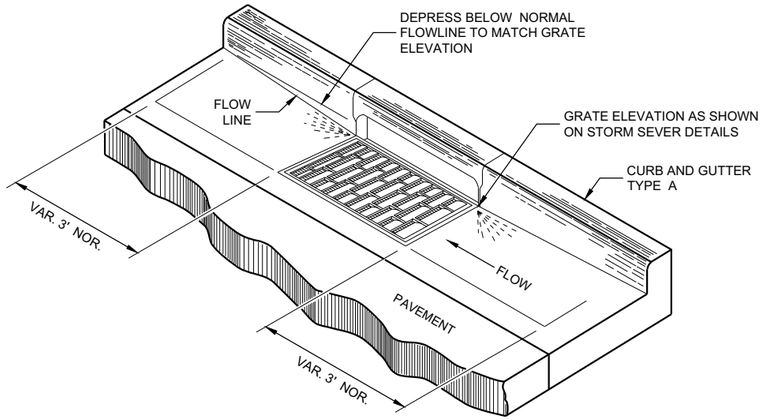
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

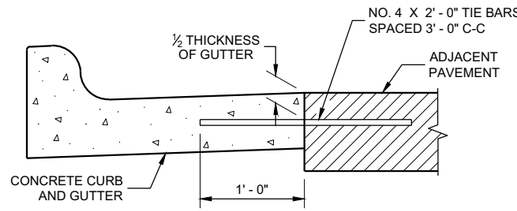
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

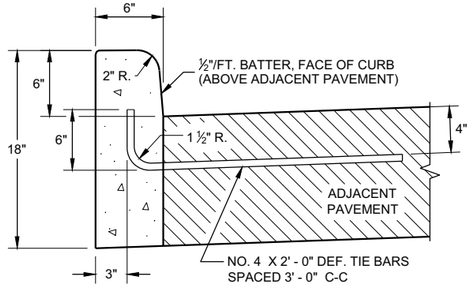
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

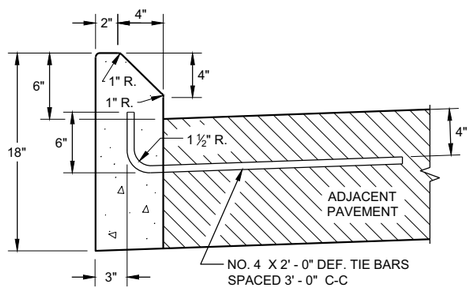
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

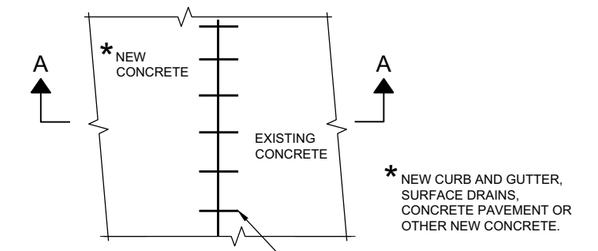


TYPES A (1) & D

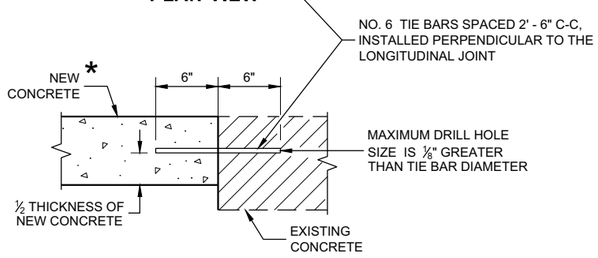


TYPES G (1) & J

CONCRETE CURB

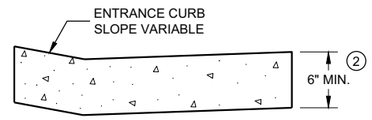


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

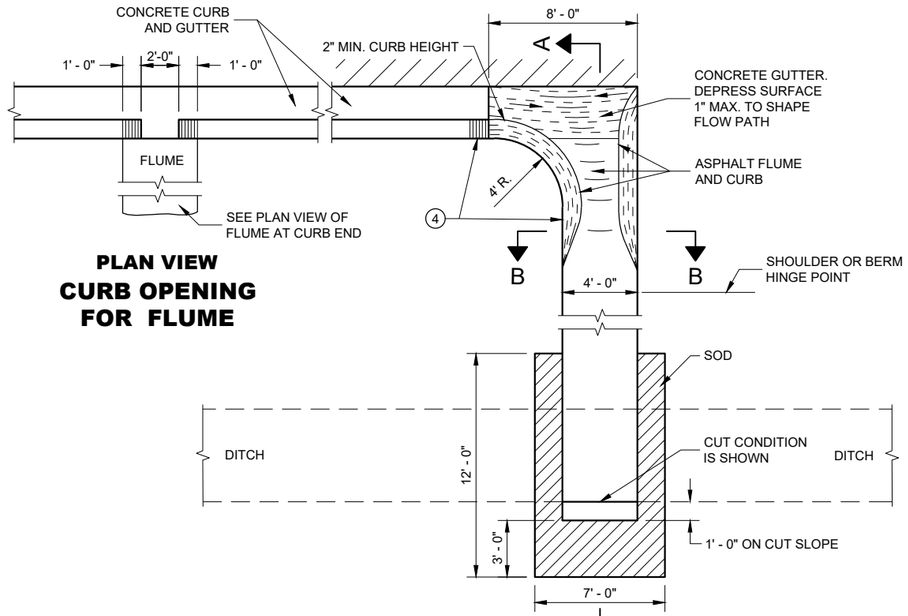
APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD08D01 - 22b

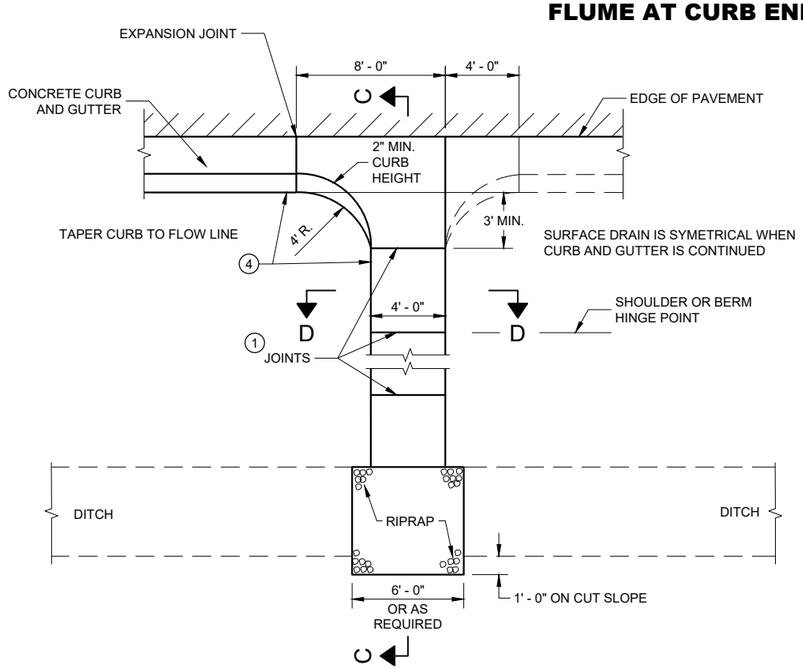
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



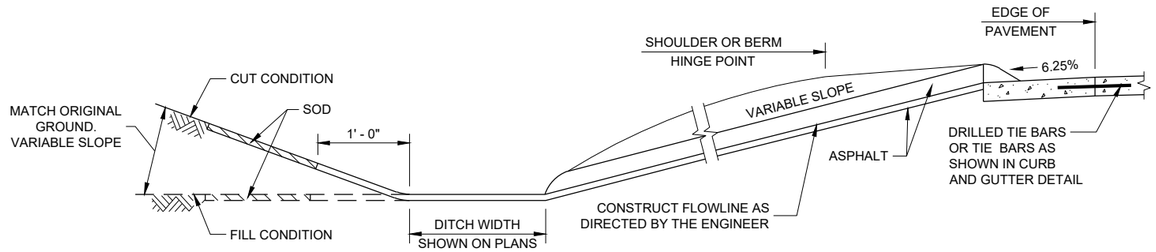
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

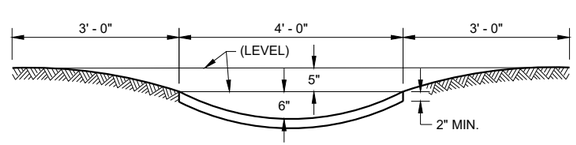
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

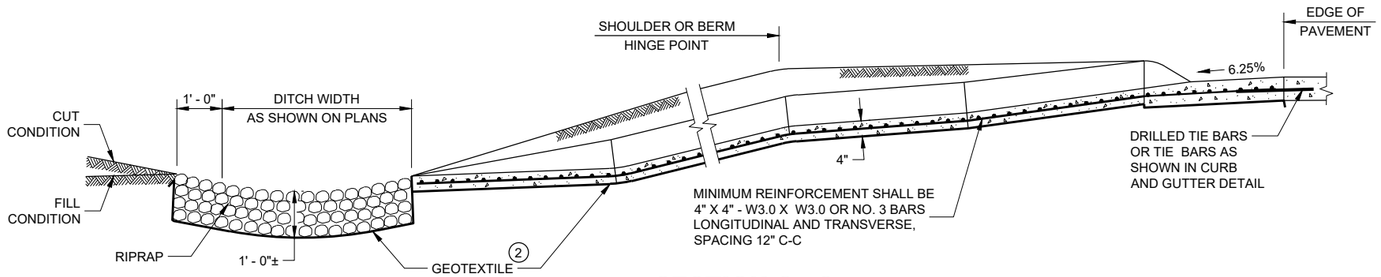
1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.



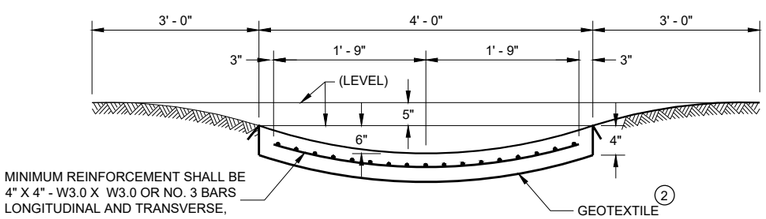
SECTION A - A



SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

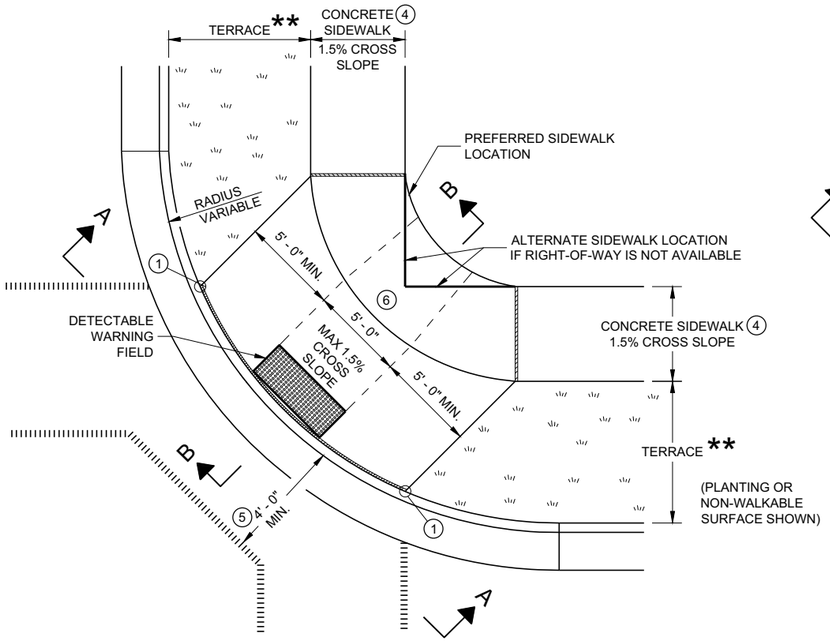
FHWA

6

SDD 08D04 - 06

6

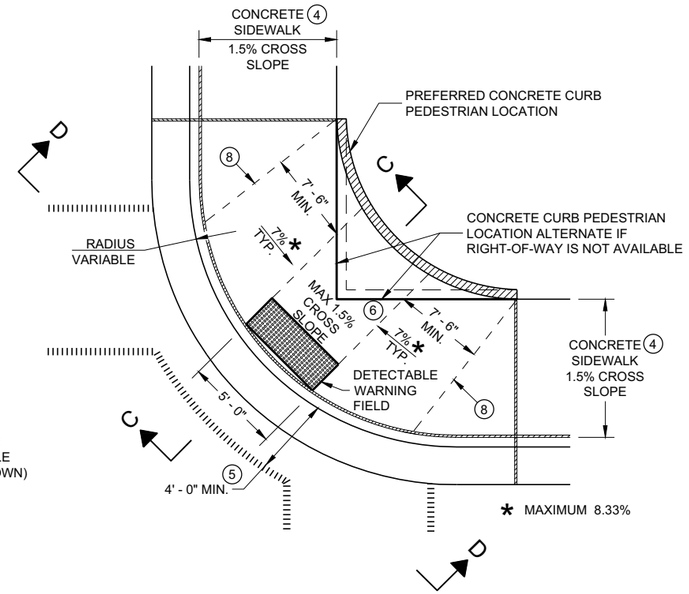
SDD 08D04 - 06



PLAN VIEW

CURB RAMP TYPE 1

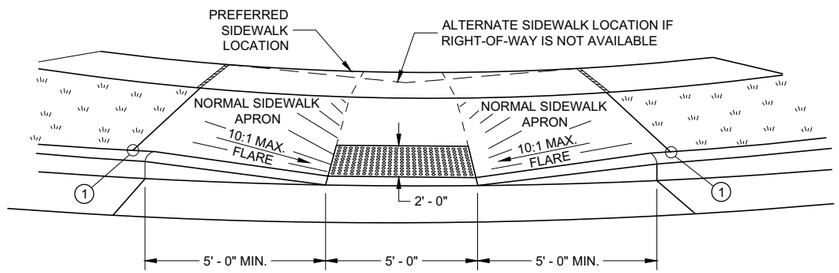
(CENTER OF CORNER RADIUS)



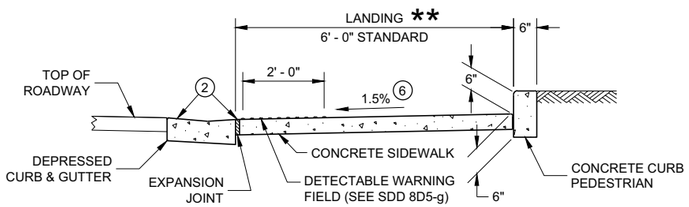
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

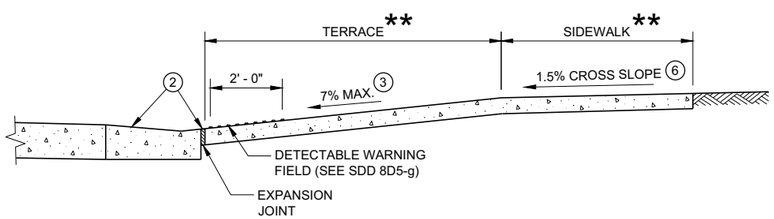


VIEW A - A FOR TYPE 1

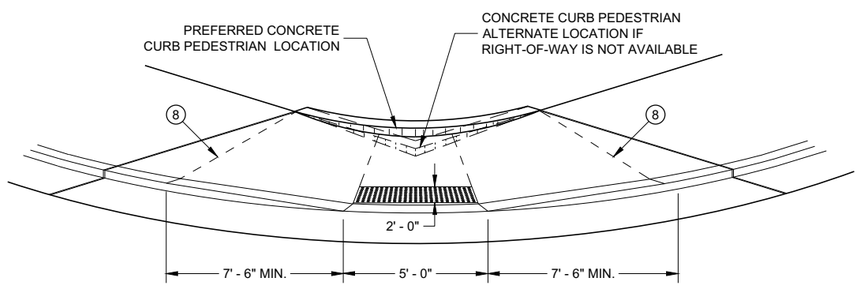


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

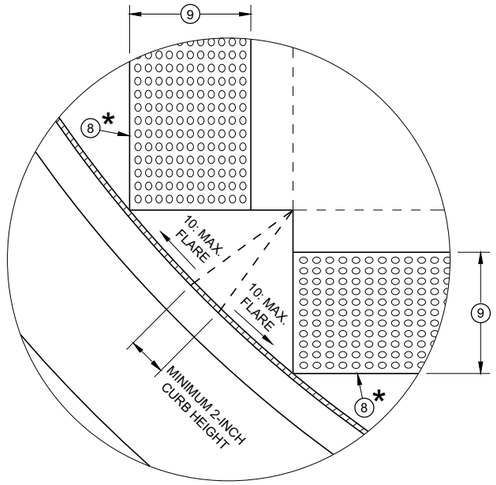
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

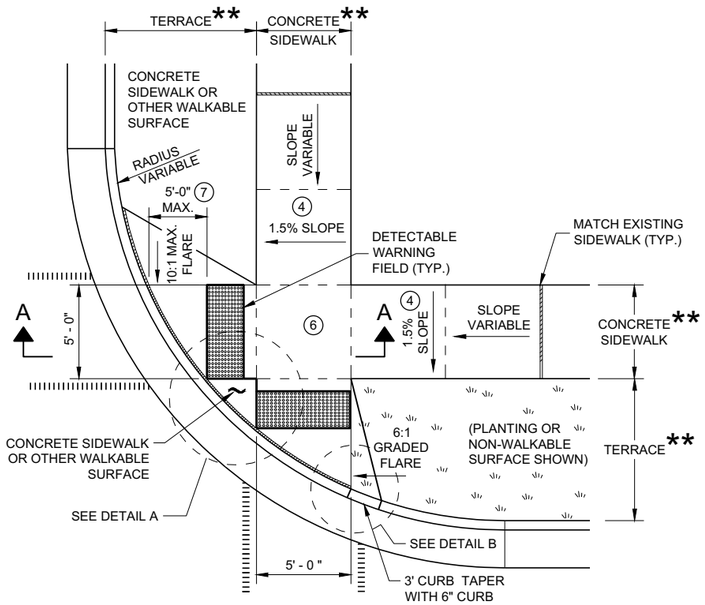
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

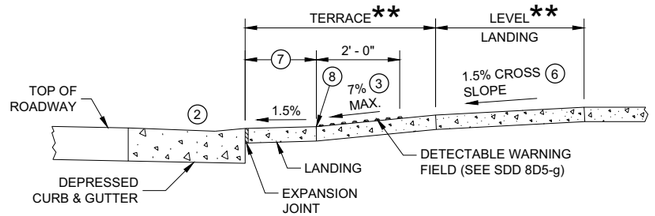
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

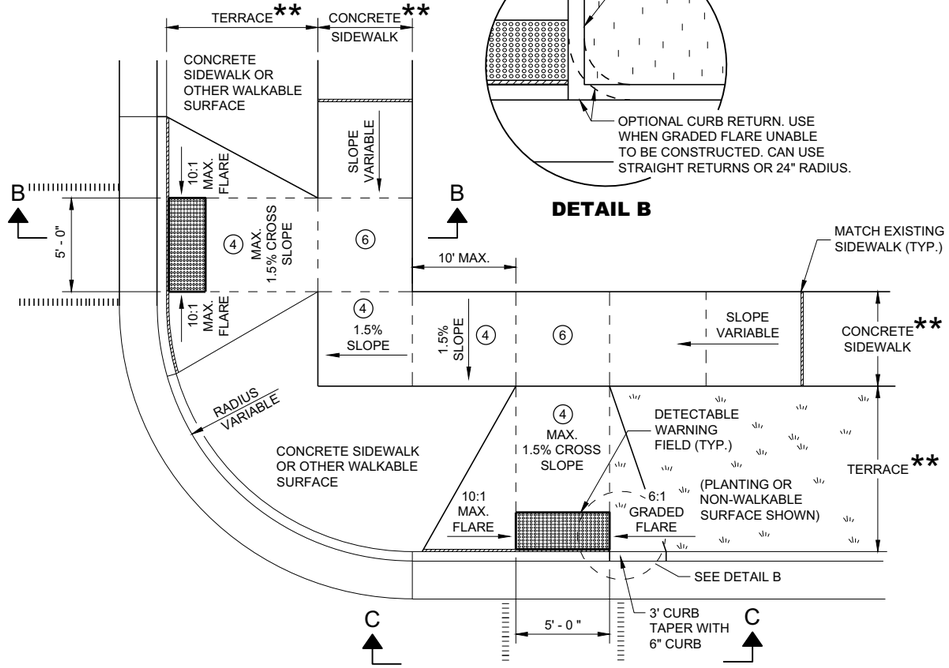
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

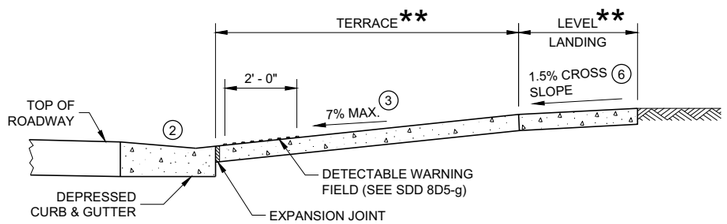
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

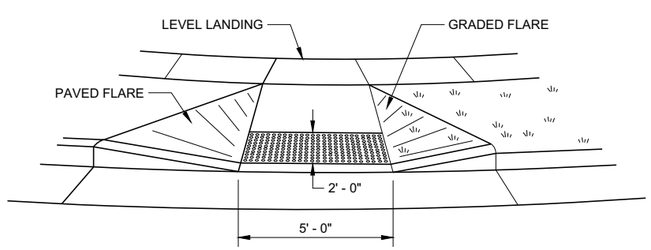


DETAIL B

PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 2 AND 3

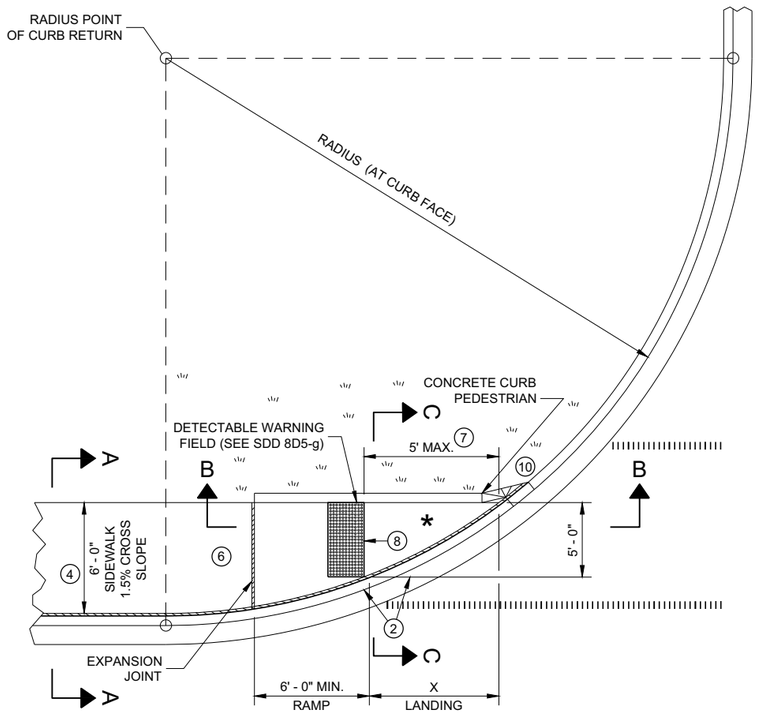
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

6

SDD 08D05 - 20b

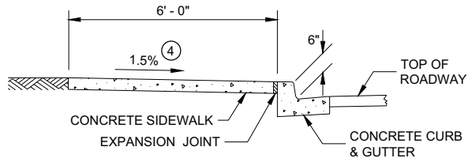


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

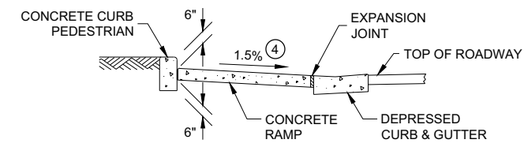
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

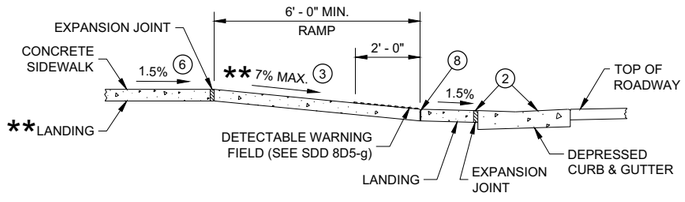
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



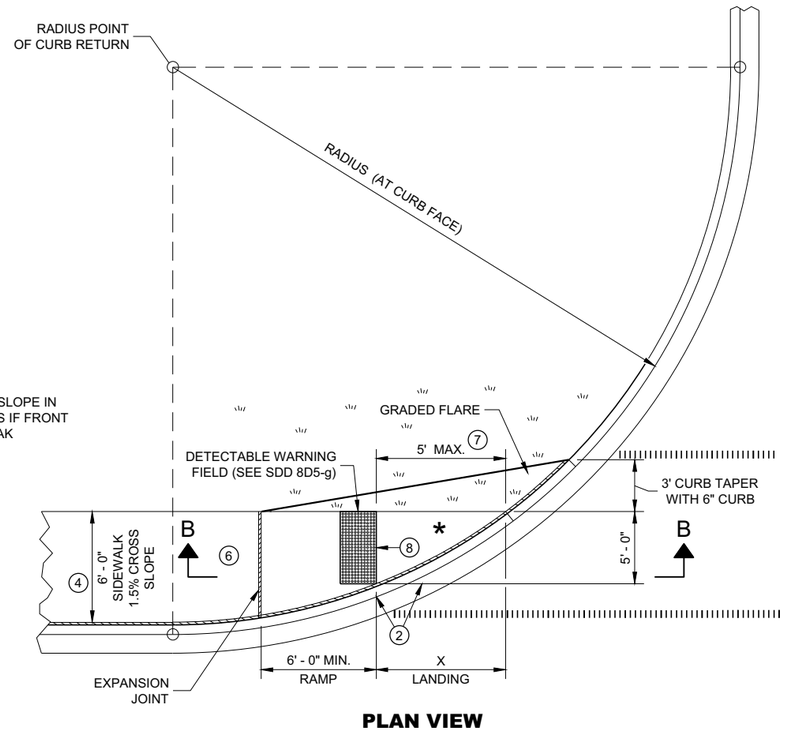
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

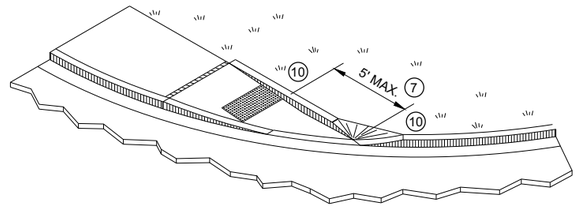
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

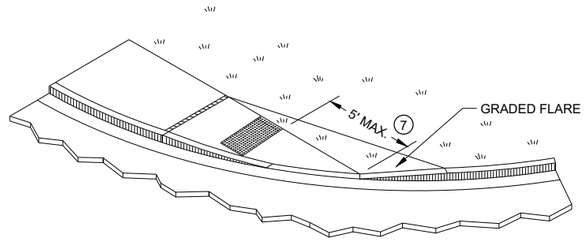


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



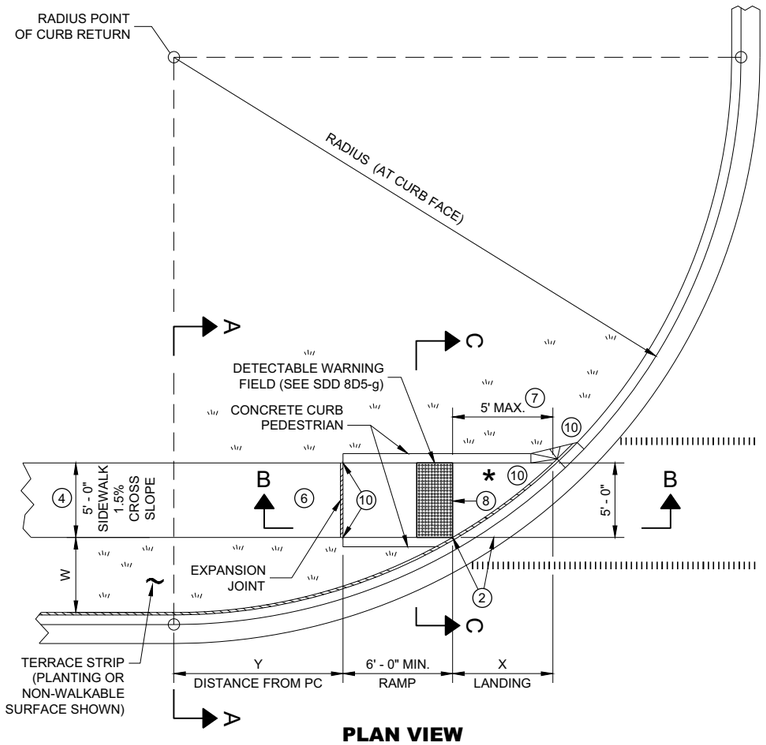
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

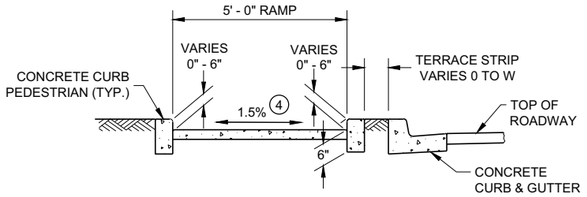
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

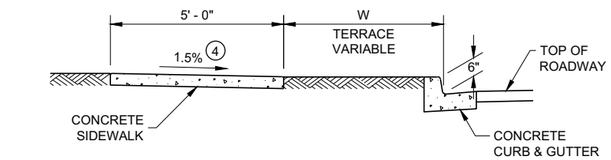
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

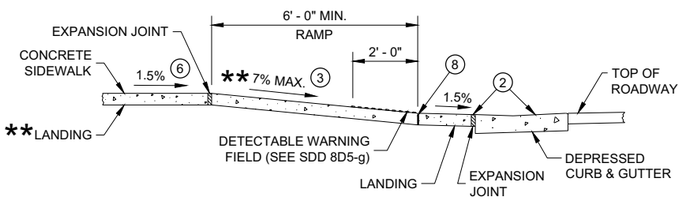
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



SECTION C - C FOR TYPE 4B

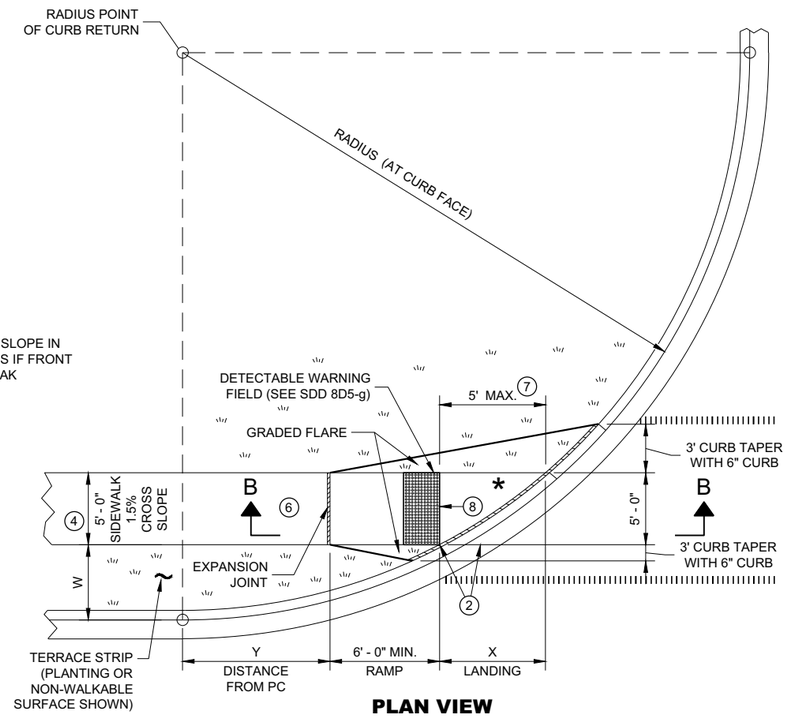


SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

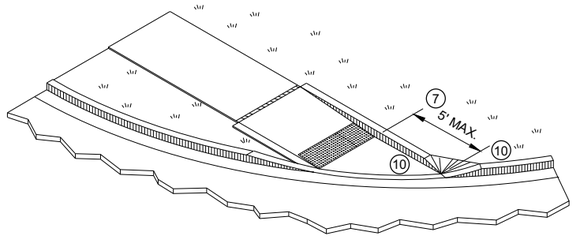
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED



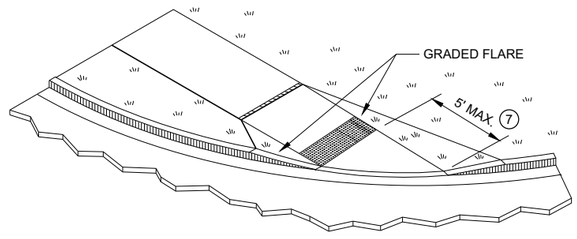
PLAN VIEW

CURB RAMP TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK



ISOMETRIC VIEW FOR TYPE 4B



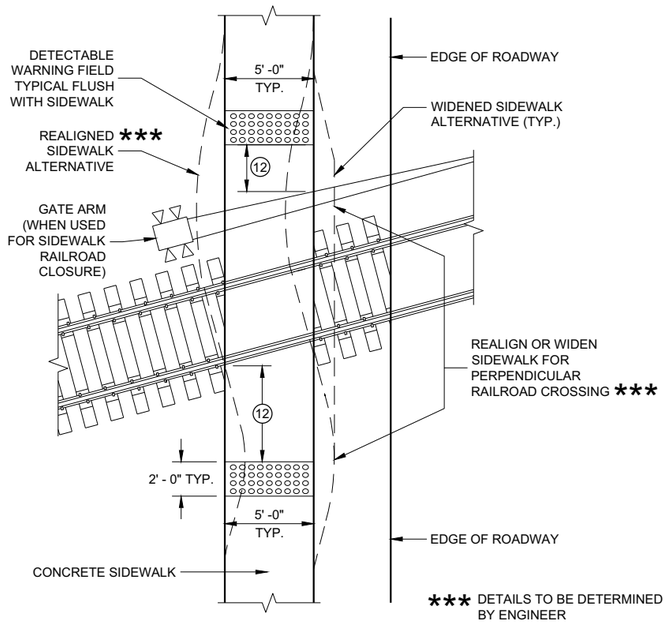
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

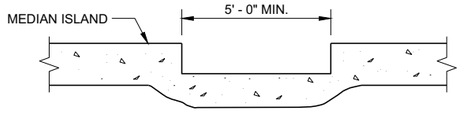
6

SDD 08D05 - 20d

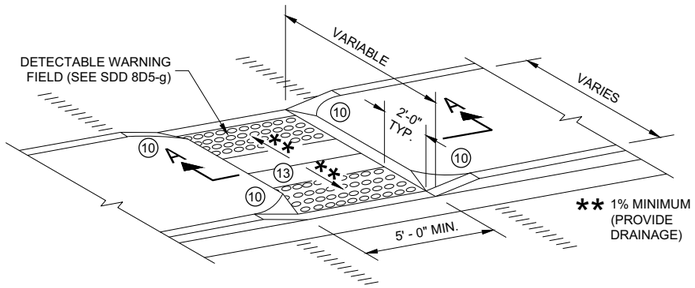


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

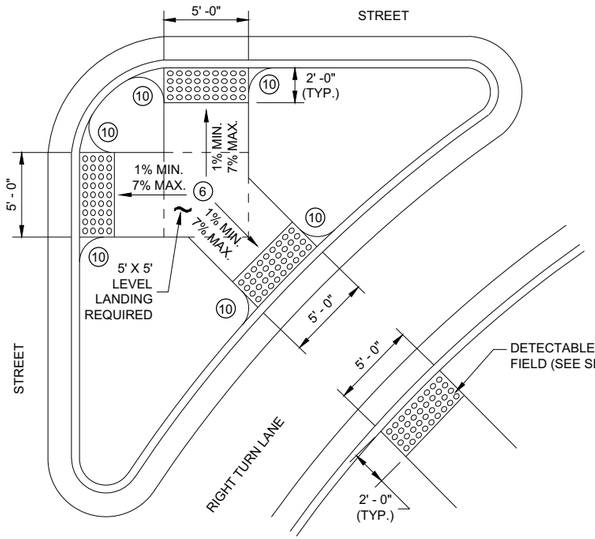
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

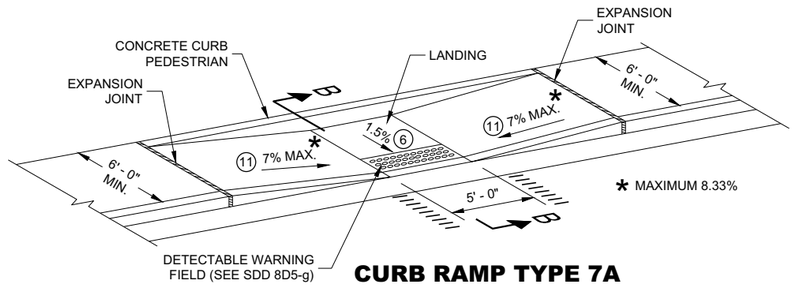
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

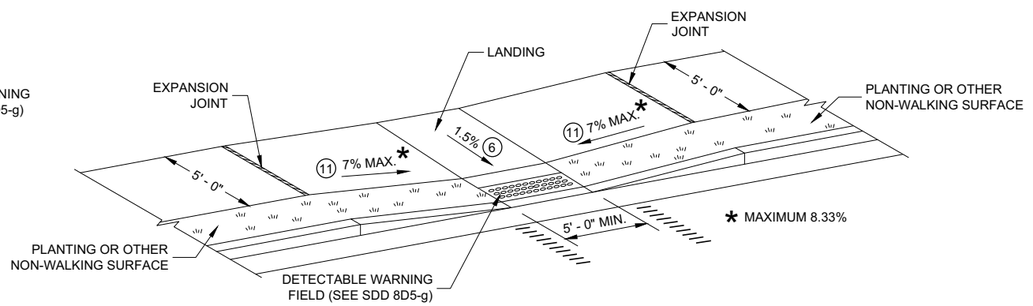
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

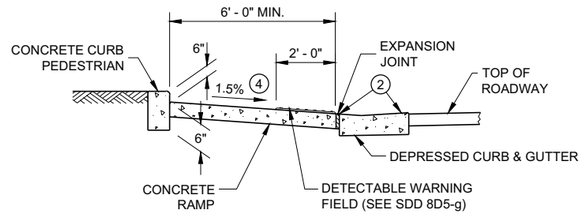
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

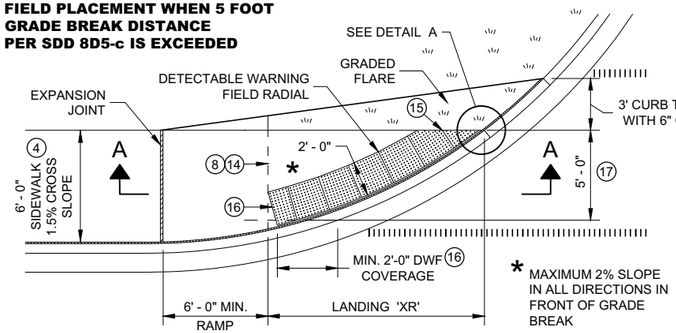
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20e

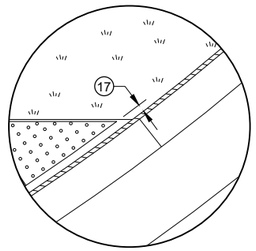
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



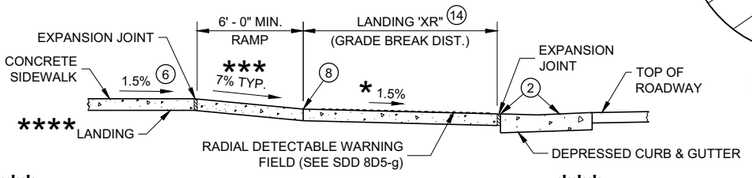
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

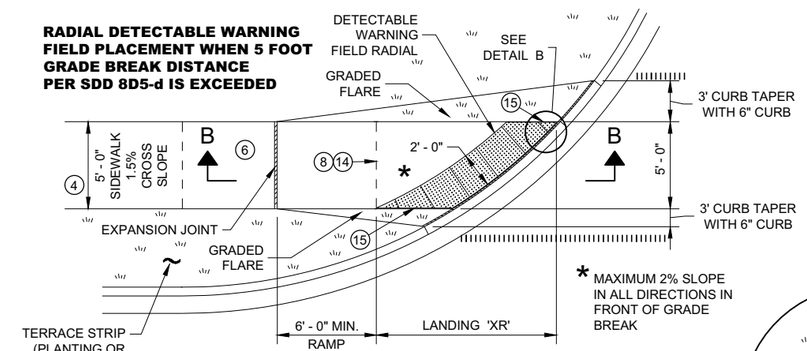


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

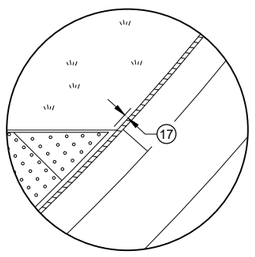
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



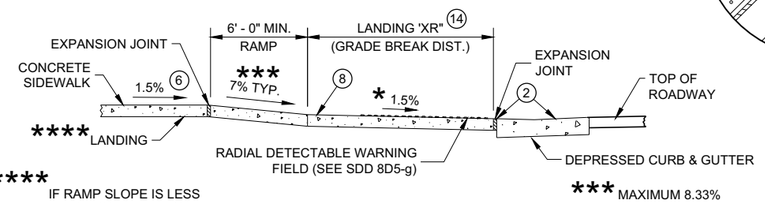
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

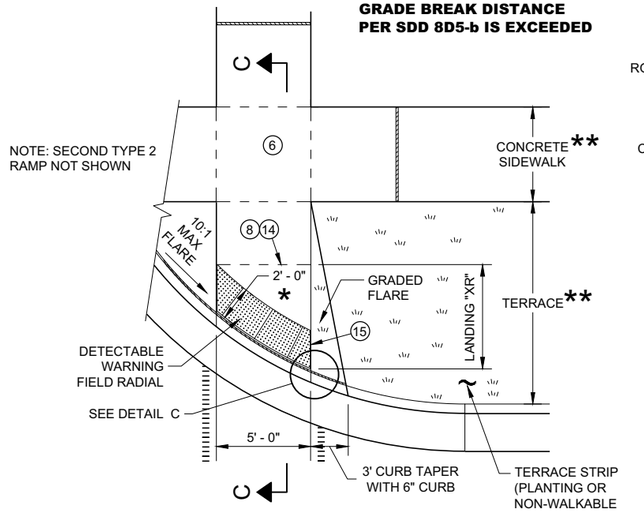
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

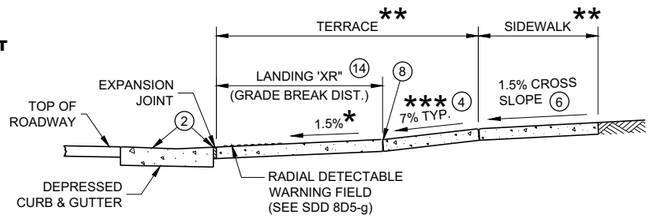


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

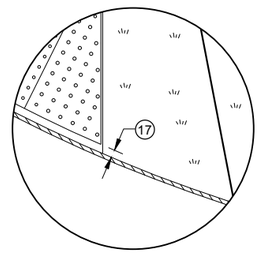


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

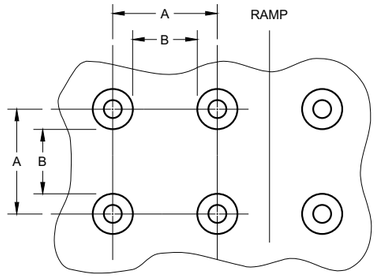
CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

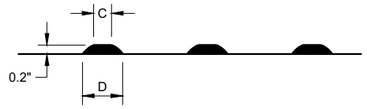
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

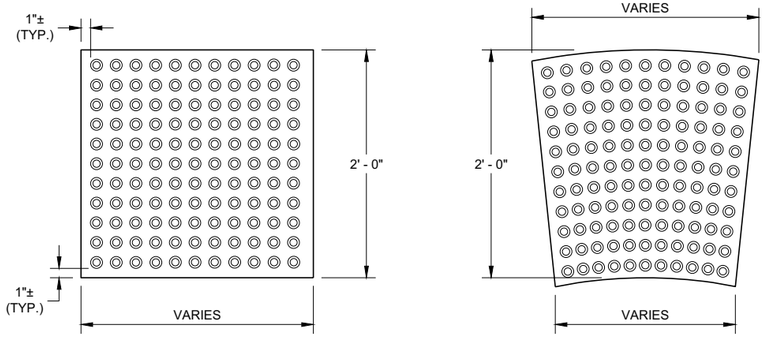


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

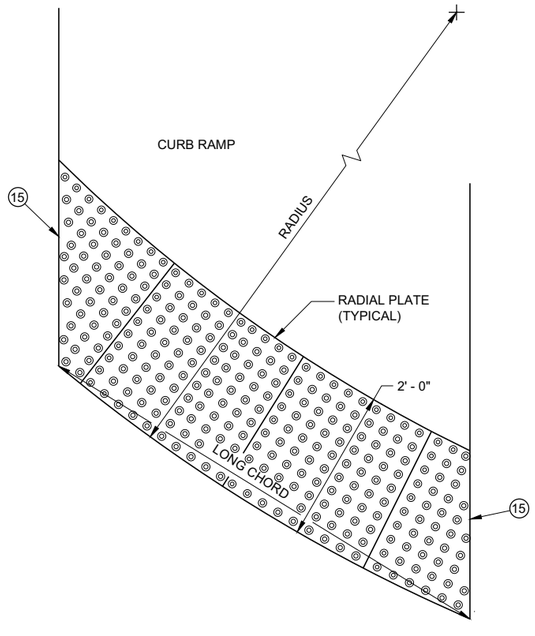
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

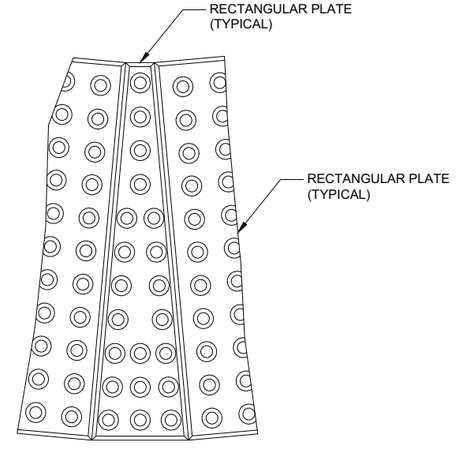
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

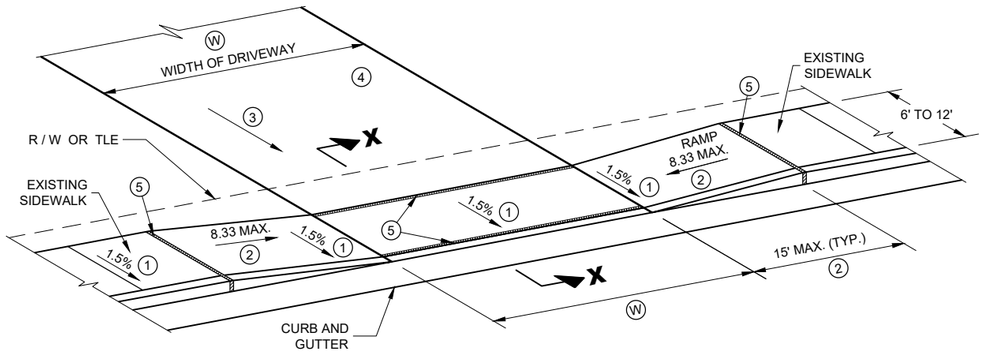
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

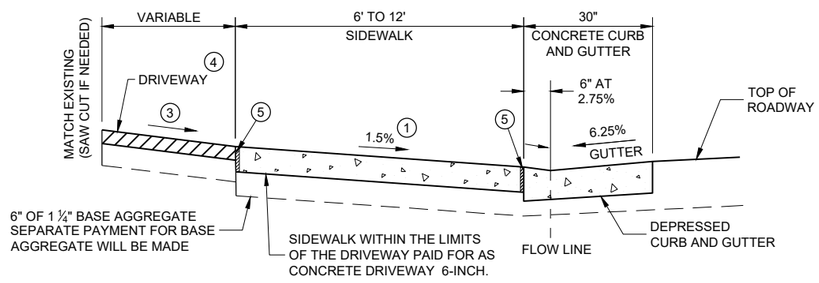
FHWA

6

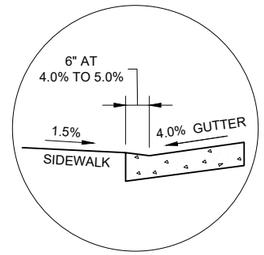
SDD 08D05 - 20g



TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X - X



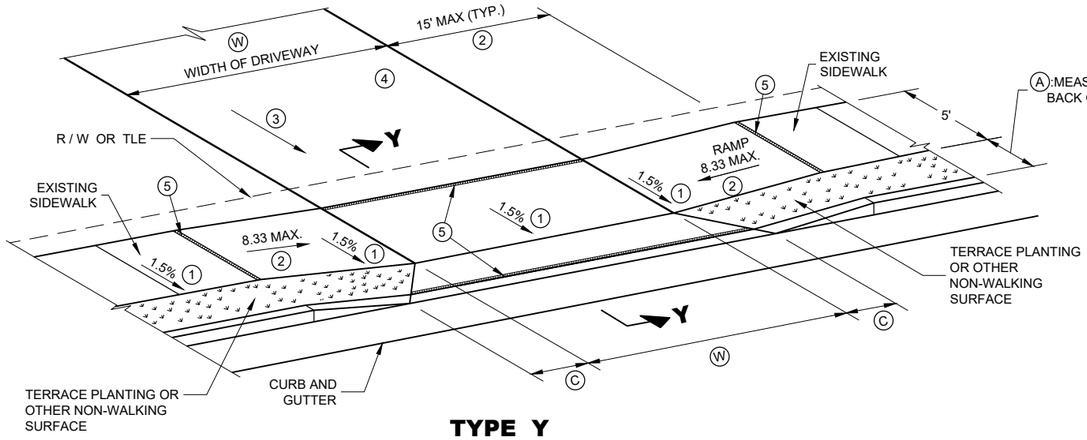
SECTION X - X
4% GUTTER SLOPE

Ⓦ: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

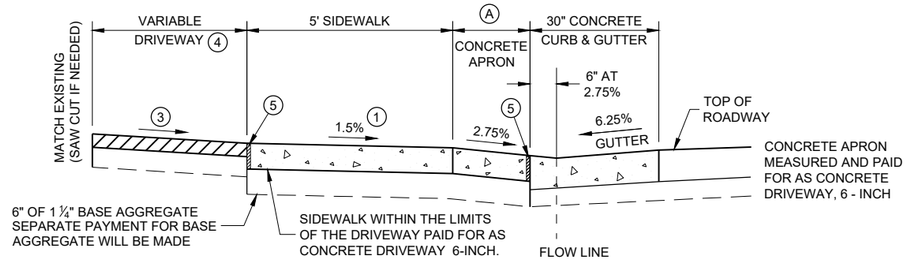
16' MIN. - 35' MAX. COMMERCIAL (CE)

TABLE Y

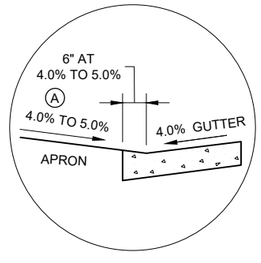
Ⓐ FEET	Ⓒ FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET



NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS



SECTION Y - Y
4% GUTTER SLOPE

SECTION Y - Y
DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER
(URBAN AND SUBURBAN)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

① CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

② THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

③ DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

④ DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

⑤ ½" EXPANSION JOINT FILLER

DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

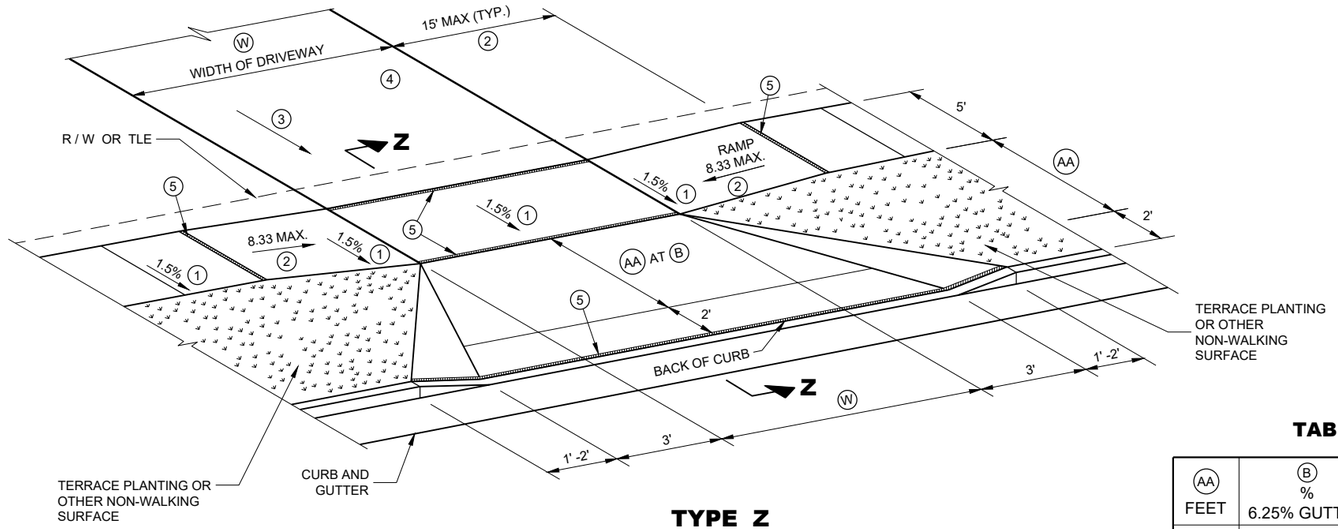
APPROVED
February 2022
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08D18 - 03

SDD 08D18 - 03



TYPE Z
SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

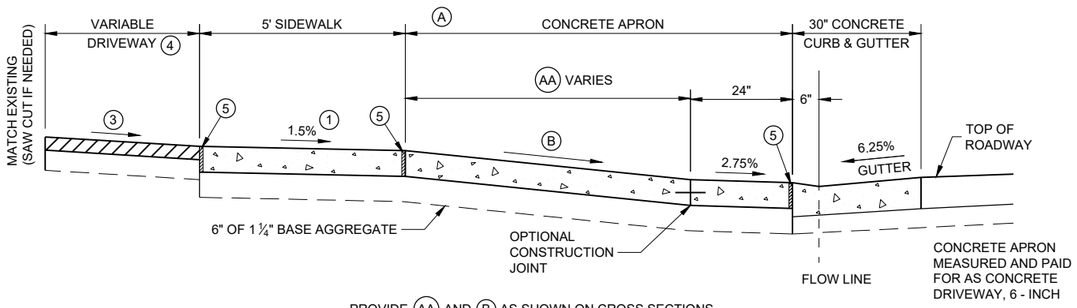
(5) ½" EXPANSION JOINT FILLER.

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

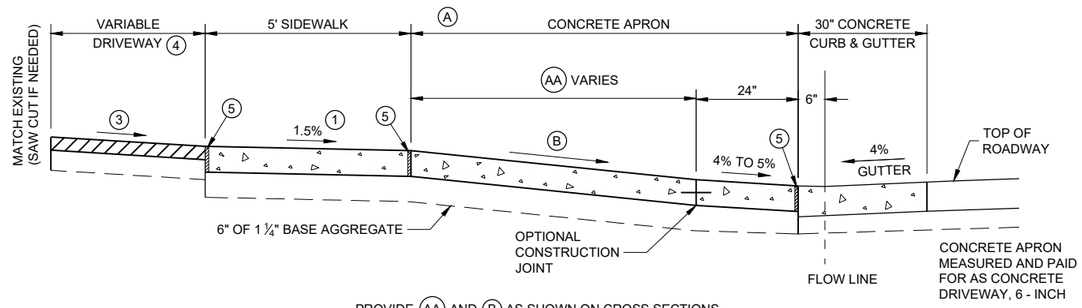
Ⓦ: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

6.25% GUTTER SLOPE



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

4% GUTTER SLOPE

NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS FOR (B) VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

SECTION Z - Z

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

(URBAN AND SUBURBAN)

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

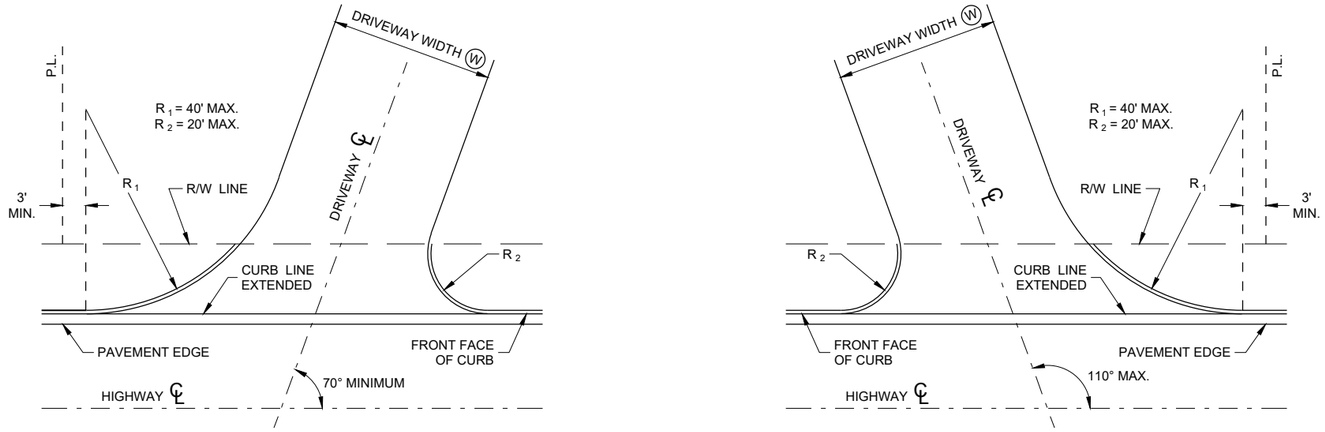
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6
SDD 08D19 - 03



SKEWED DRIVEWAY DETAILS (COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN

GENERAL NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

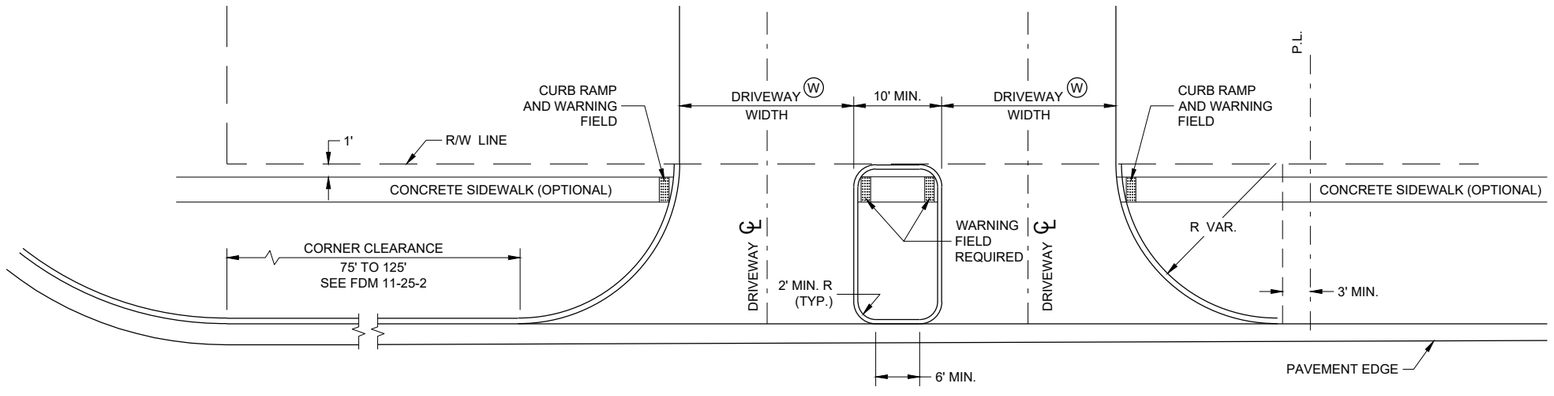
THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



DRIVEWAY LOCATION AND SPACING DETAILS

SIDEWALK SHOWN

DRIVEWAYS WITH CURB AND GUTTER RETURNS

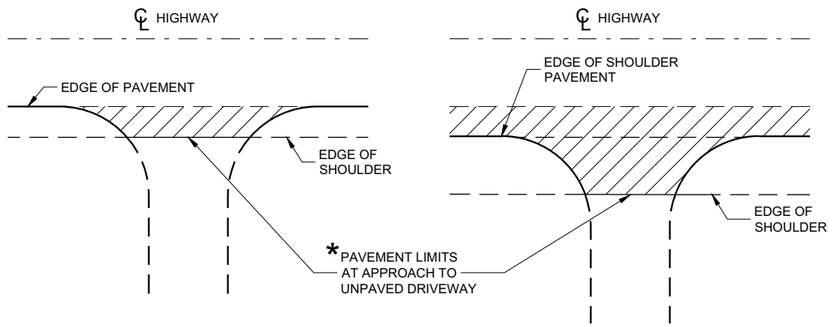
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
00-00-00 — DATE
/S/ <AUTHOR> — ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08D20 - 01

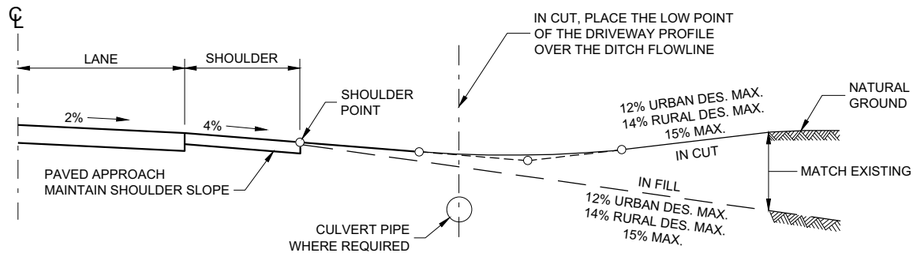
SDD 08D20 - 01



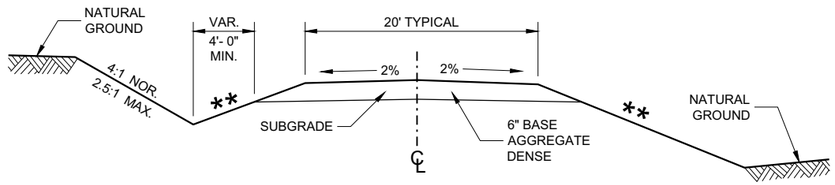
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

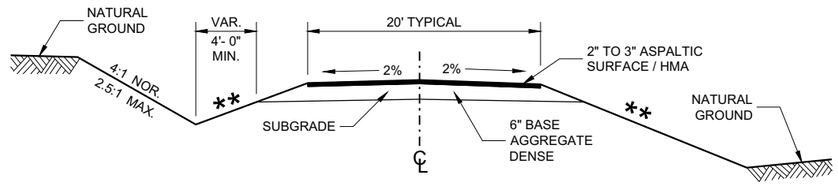


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

6

SDD 08D21 - 01

DRIVEWAYS WITHOUT CURB AND GUTTER

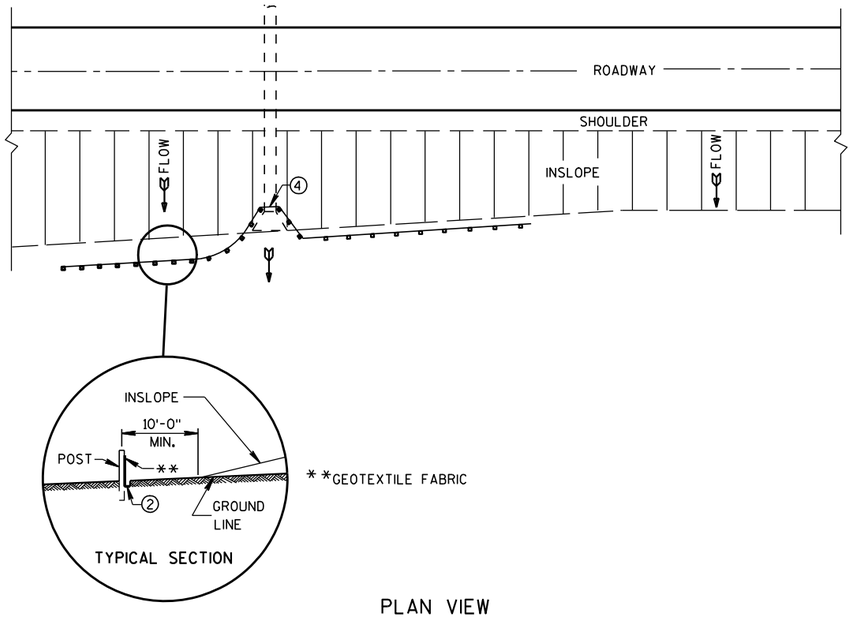
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

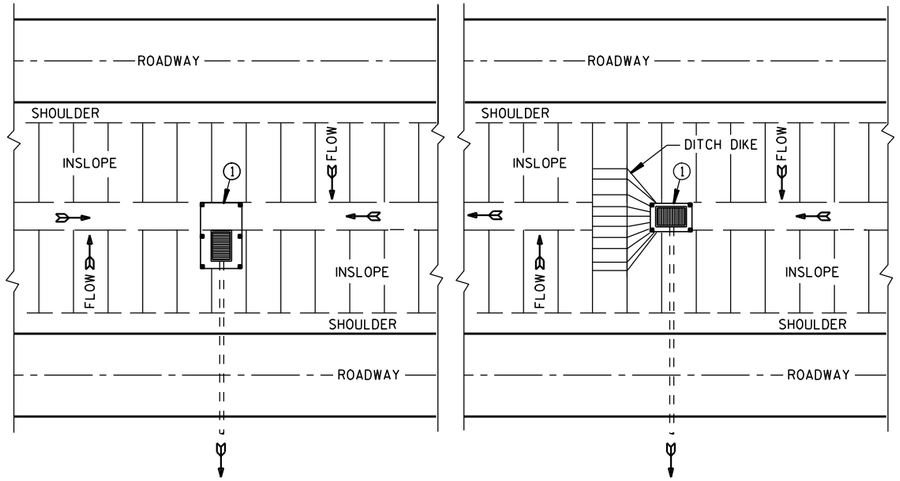
6

SDD 08D21 - 01



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



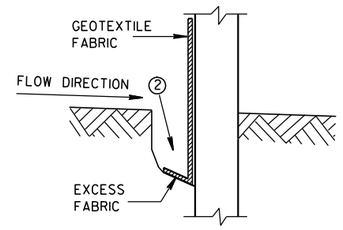
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

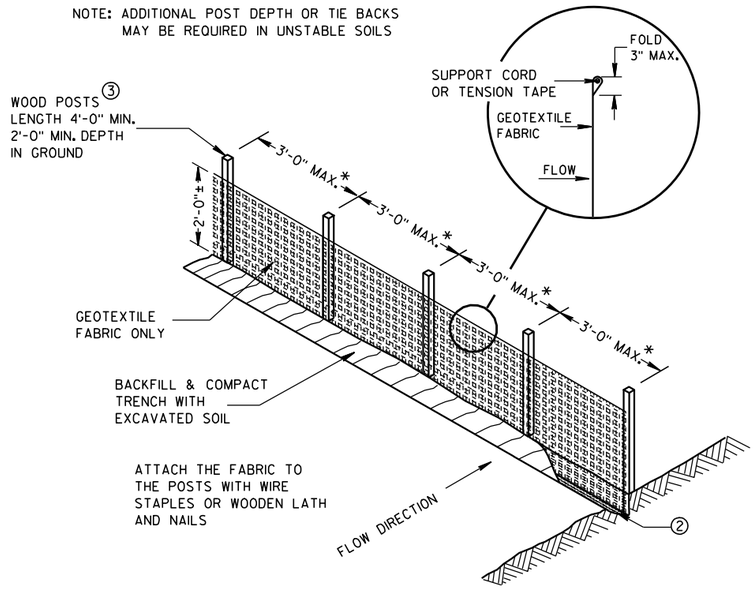
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

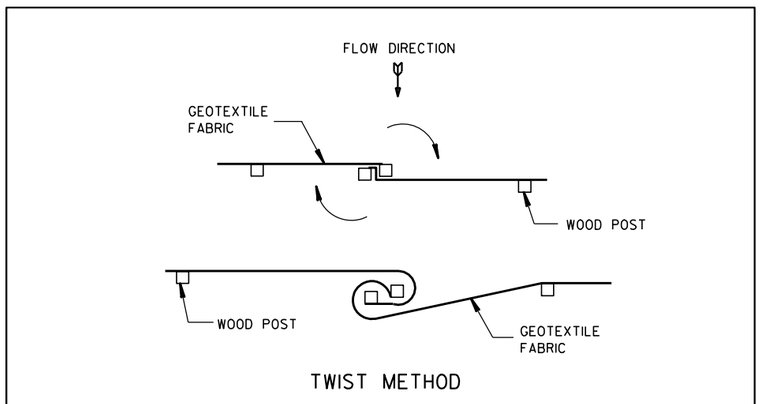
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



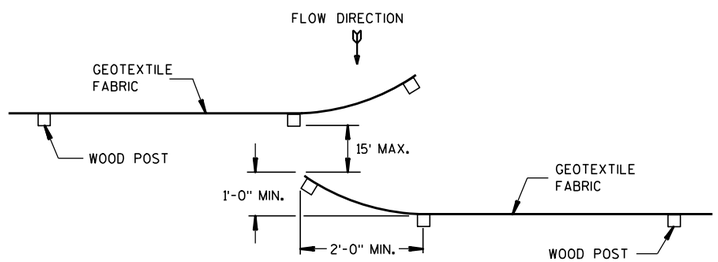
TRENCH DETAIL



SILT FENCE

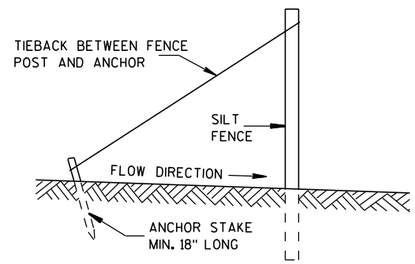


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

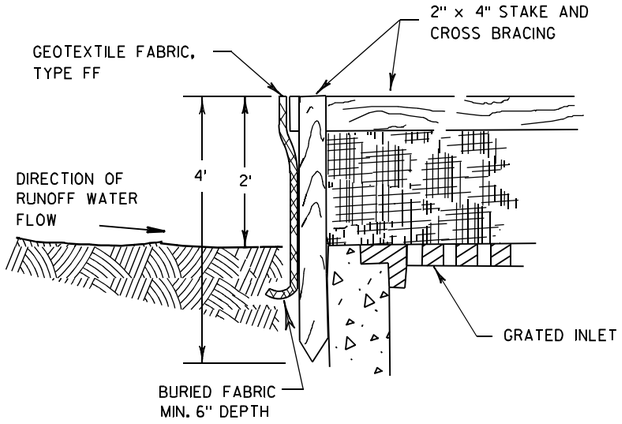
427

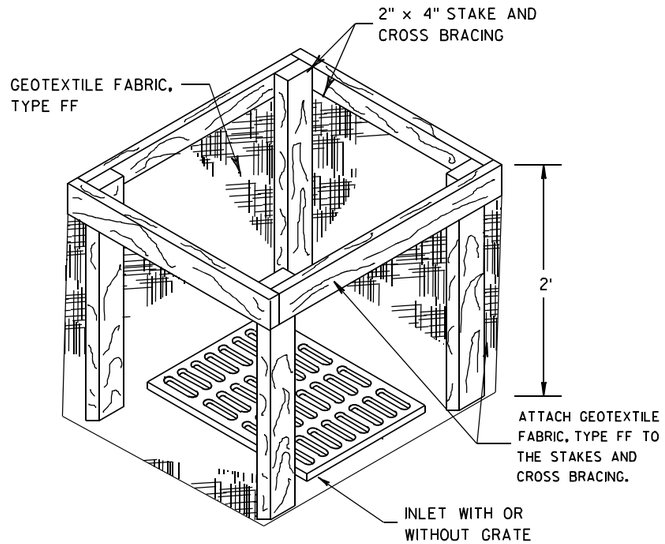
6

S.D.D. 8 E 9-6

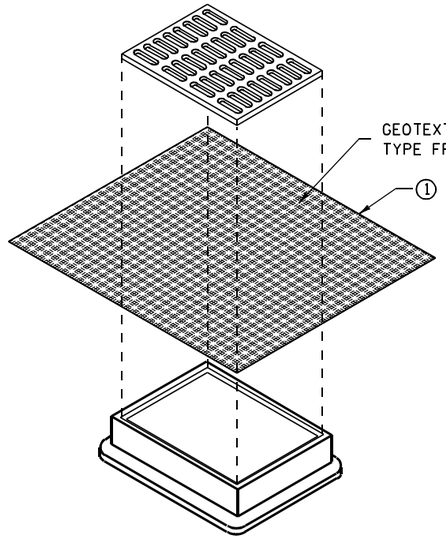
6

S.D.D. 8 E 9-6



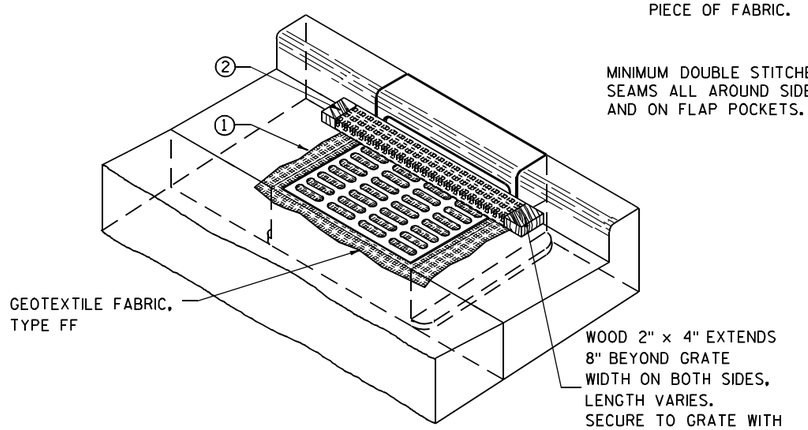


INLET PROTECTION, TYPE A

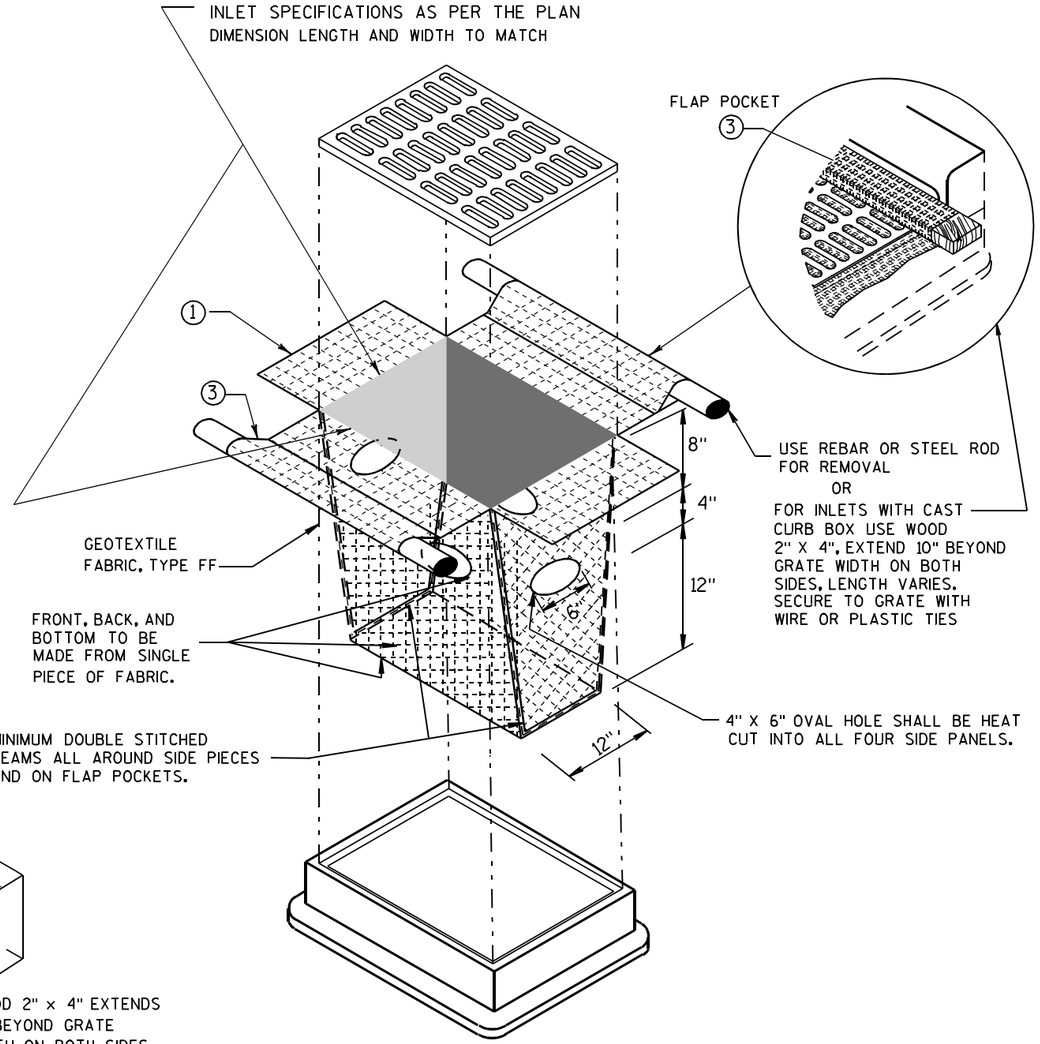


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

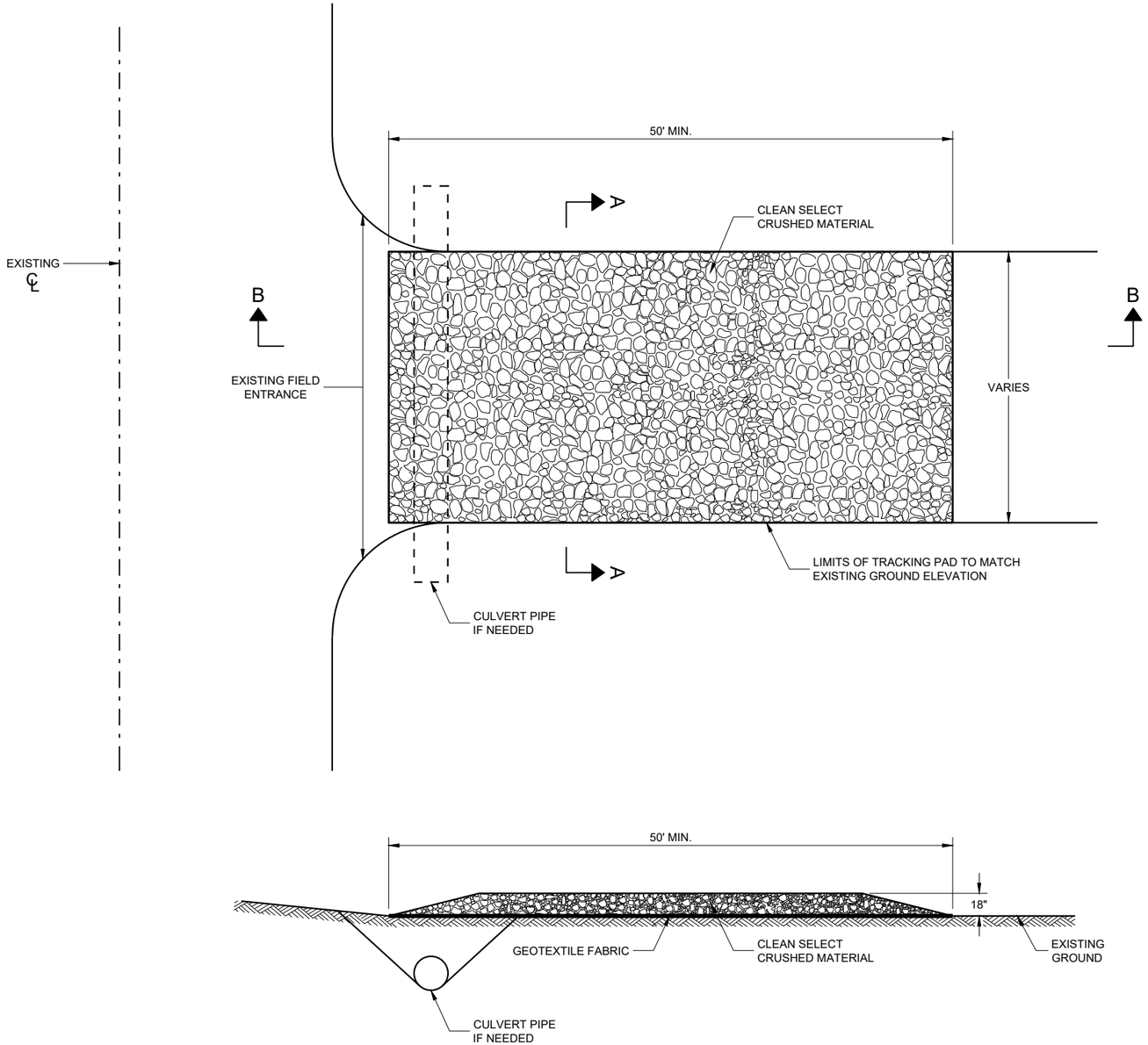
FHWA

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



SECTION B - B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

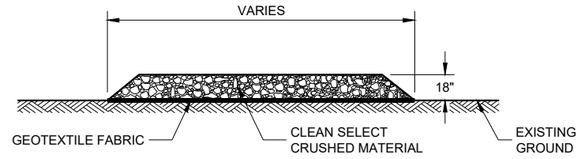
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

6

SDD 08E14 - 01

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 08E14 - 01

METAL APRON ENDWALLS

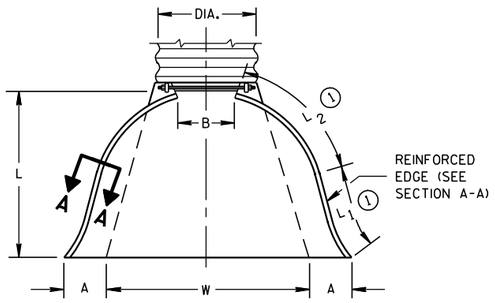
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

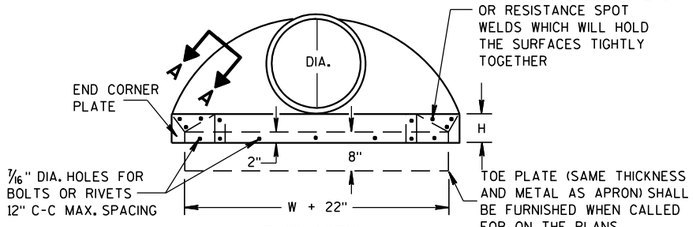
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

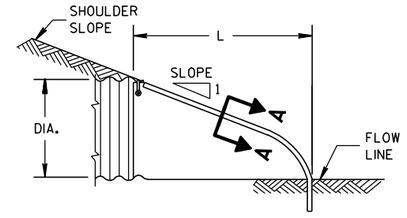
*MINIMUM
**MAXIMUM



PLAN VIEW

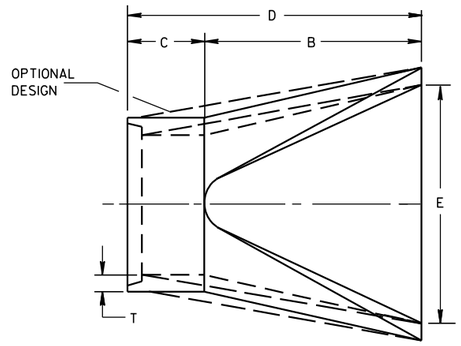


END VIEW

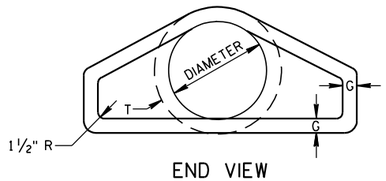


SIDE ELEVATION

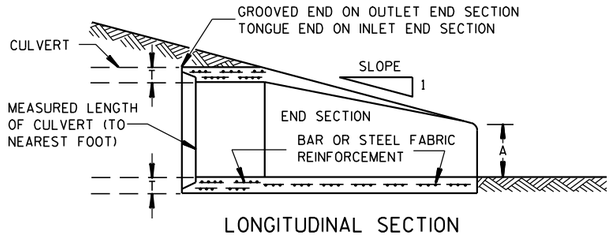
METAL ENDWALLS



PLAN

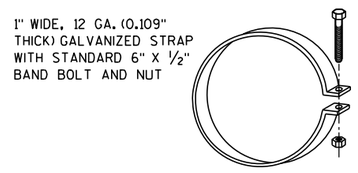


END VIEW



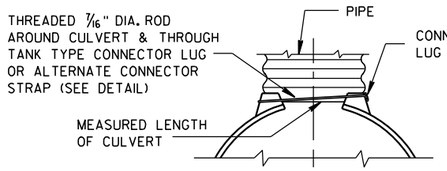
LONGITUDINAL SECTION

CONCRETE ENDWALLS

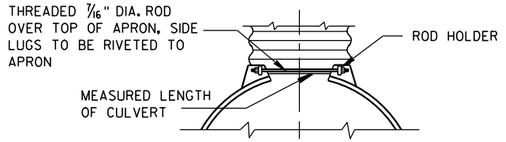


ALTERNATE FOR TYPE 1 CONNECTION

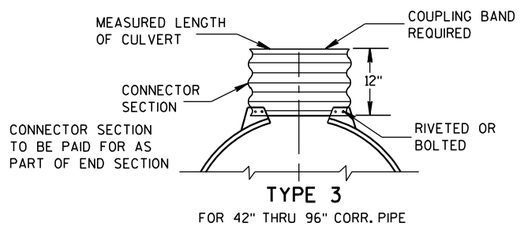
END SECTION CONNECTOR STRAP



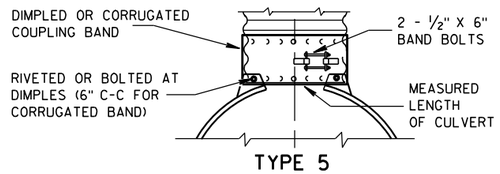
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

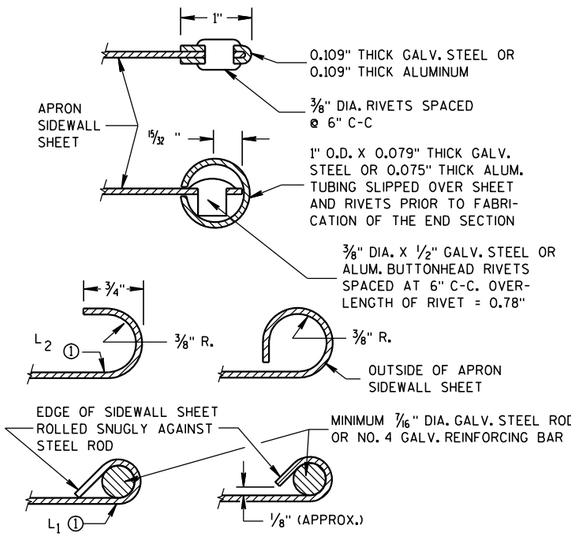
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

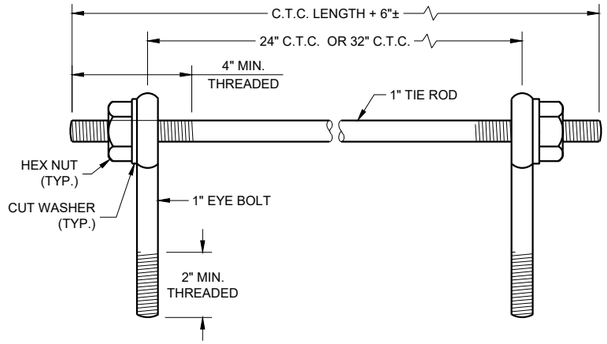
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

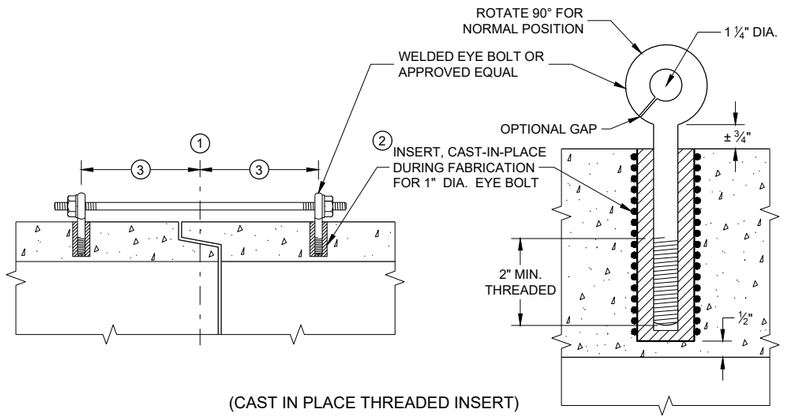
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

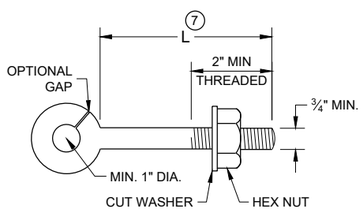
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

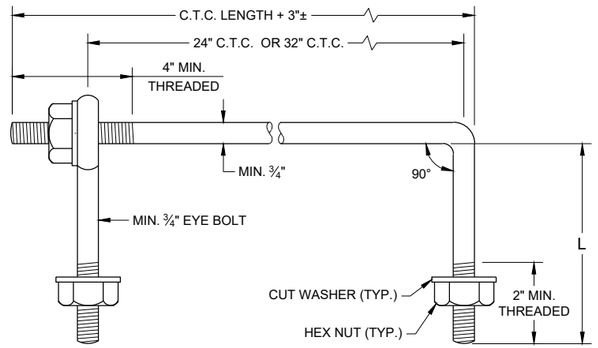
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

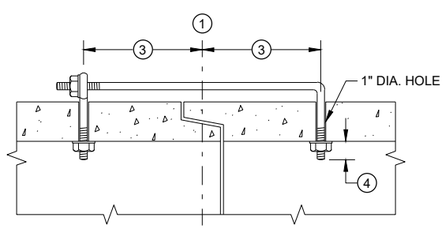


EYE BOLT (7)

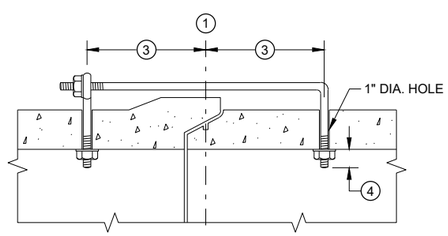
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

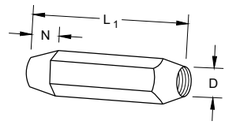
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

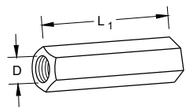
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



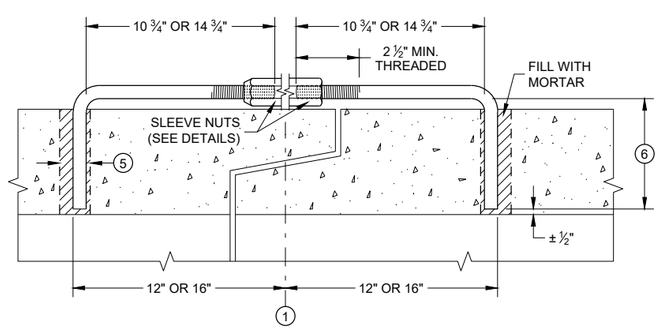
TAPERED



PLAIN

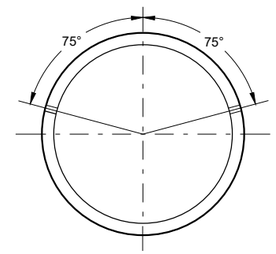
RIGHT AND LEFT THREADS

SLEEVE NUTS



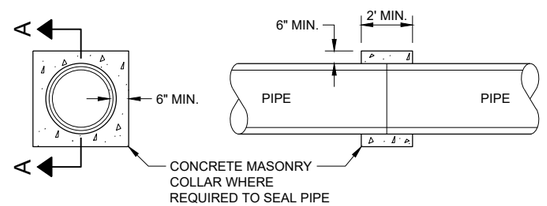
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

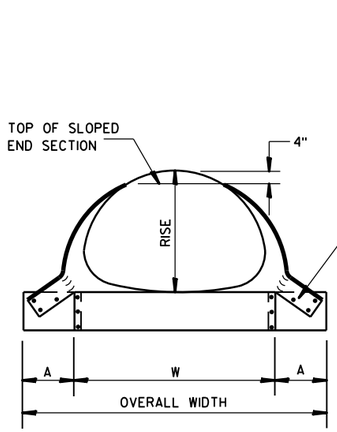
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

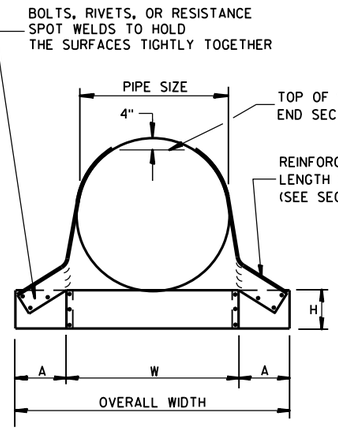
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 08F04 - 08

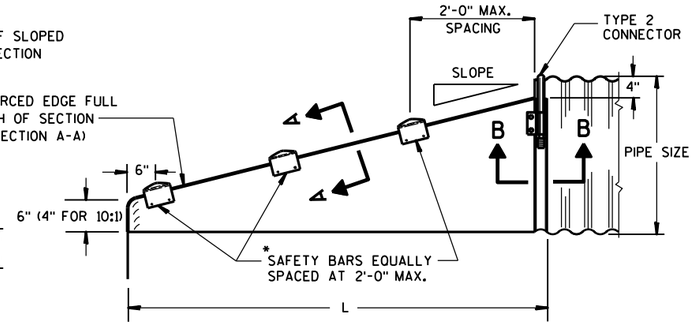
SDD 08F04 - 08



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

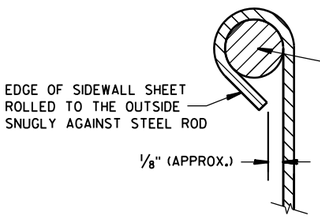
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS

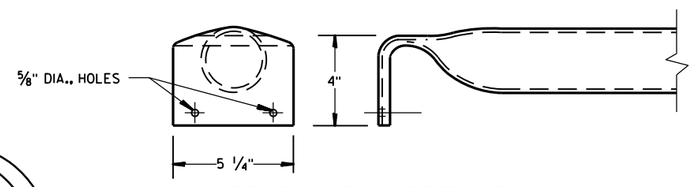
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

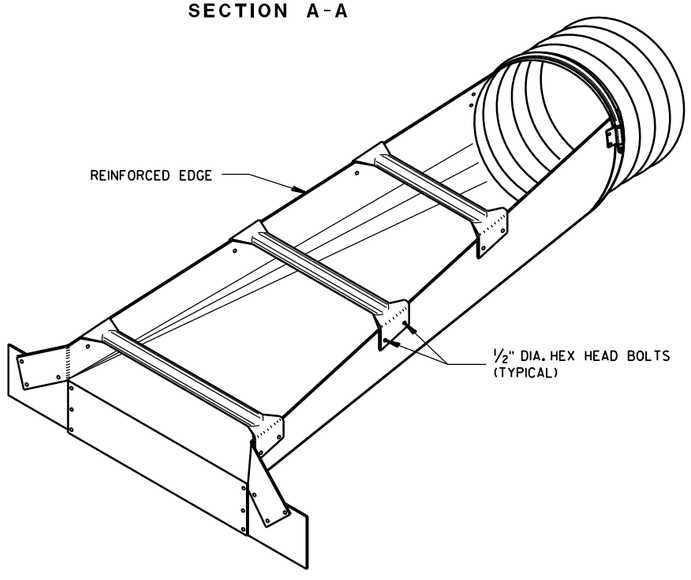


DETAIL OF SAFETY BAR

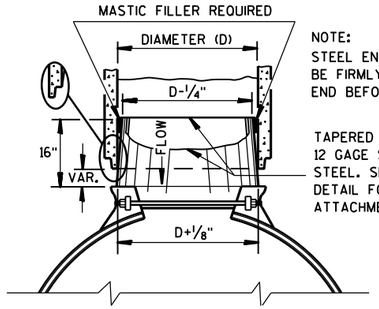
STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

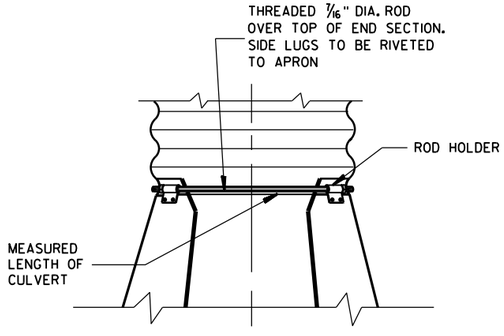
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



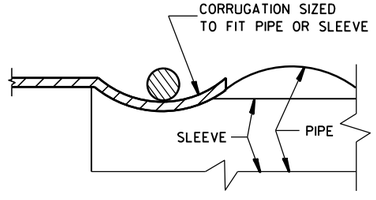
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

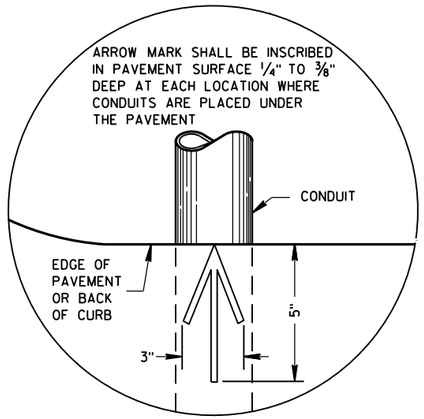
STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

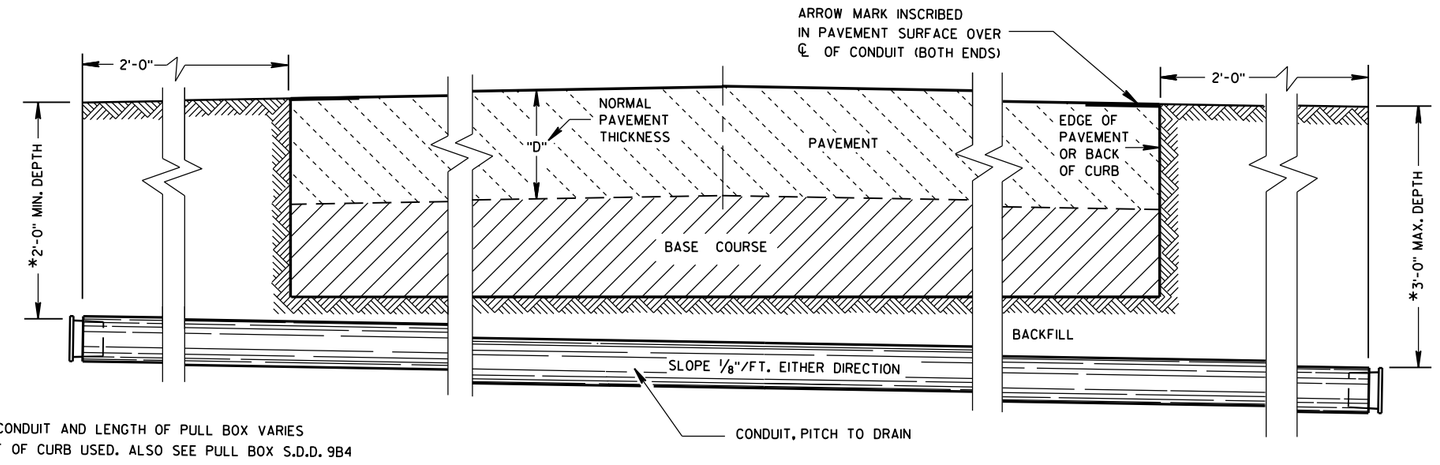
6

S.D.D. 8 F 7-5



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

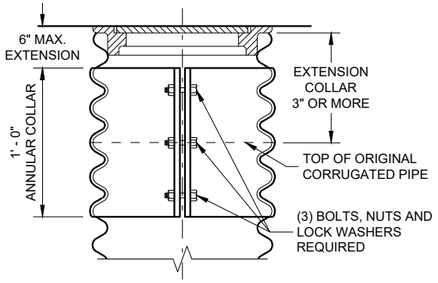
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

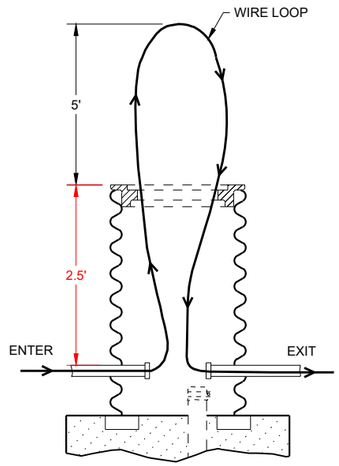
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

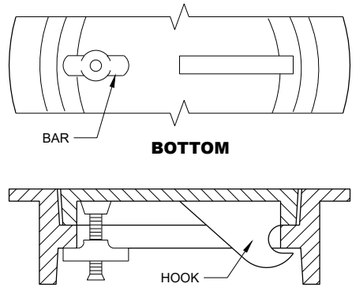
S.D.D. 9 B 2-10



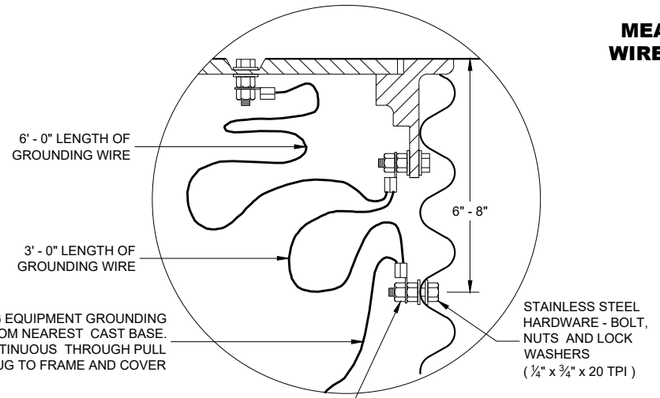
CORRUGATED PIPE EXTENDER



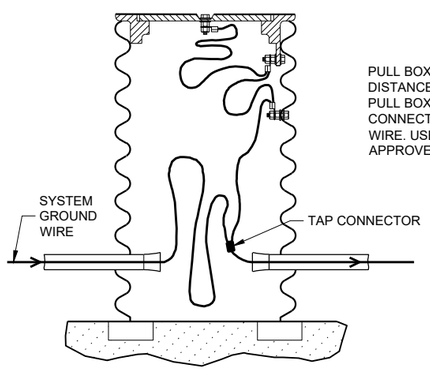
MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)
TIGHTENING BAR TYPE

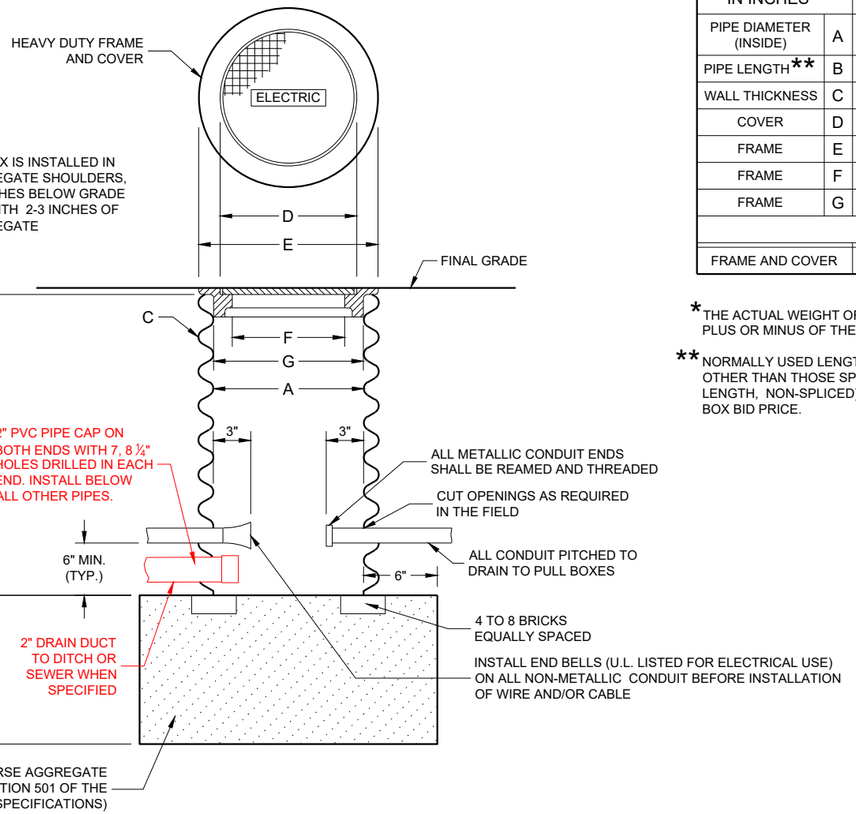


EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH**	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 ¼	10 ¼	10 ¼	16 ¼	16 ¼	16 ¼	22 ¼	22 ¼	22 ¼
FRAME	E	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 ½	8 ½	8 ½	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½
FRAME	G	11 ½	11 ½	11 ½	17 ½	17 ½	17 ½	23 ½	23 ½	23 ½
WEIGHT IN POUNDS*										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

*THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

**NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

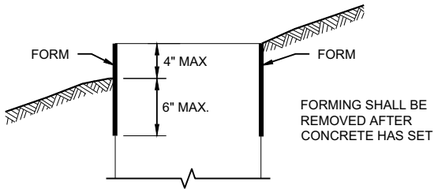
APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 434

FHWA

6
SDD 09B04-12

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

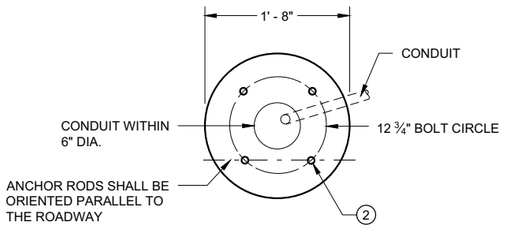
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

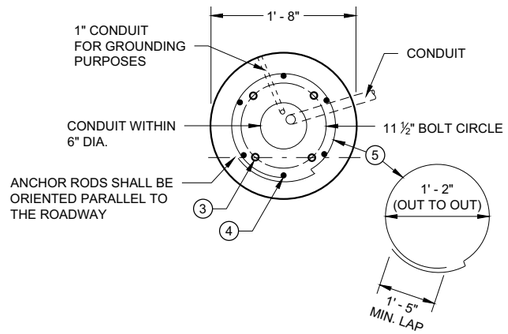
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

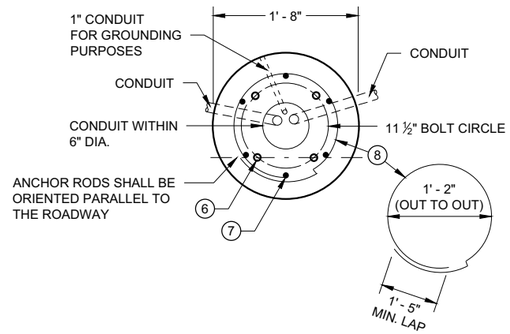
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

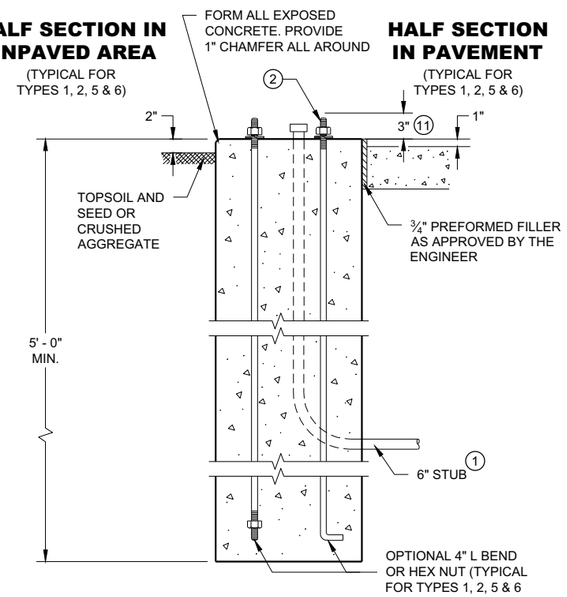
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

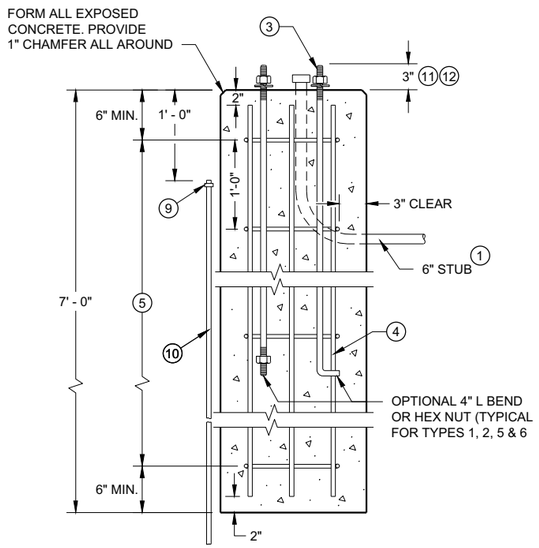
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

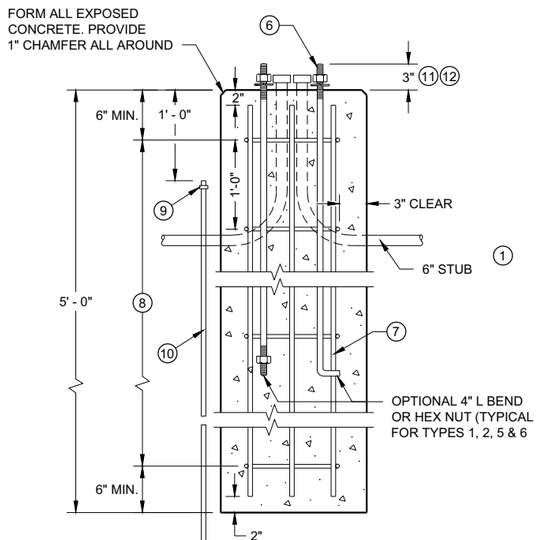
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 435

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

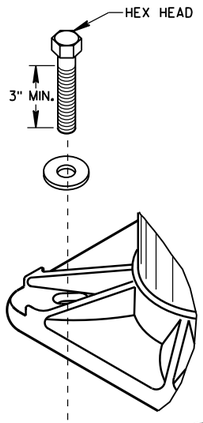
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

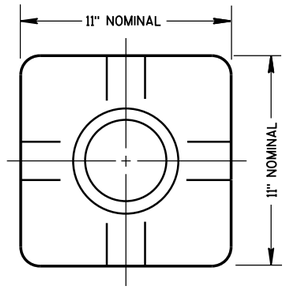
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

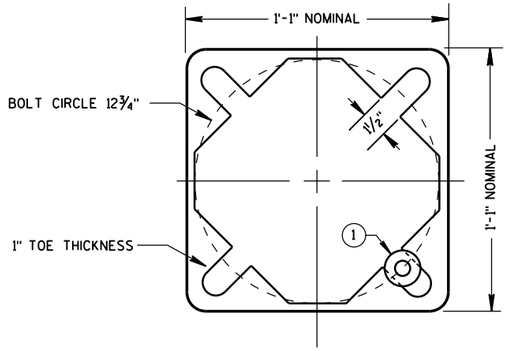
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

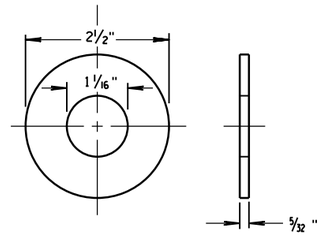




TOP VIEW
(PEDESTAL BASE)

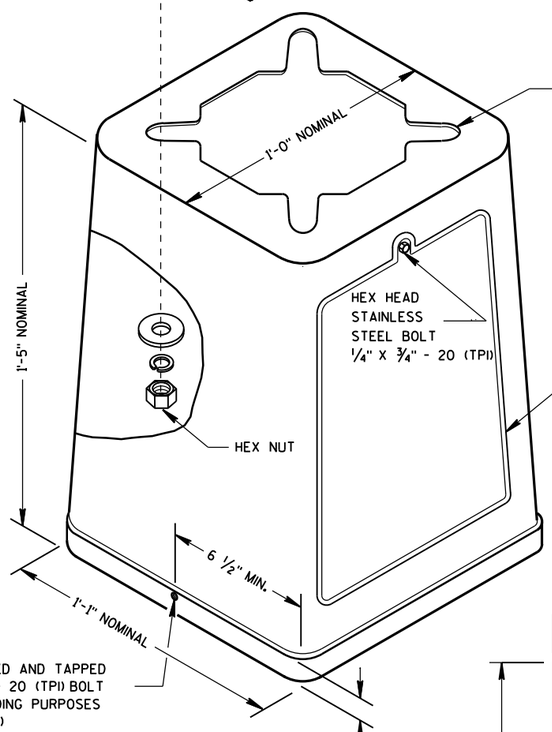


BOTTOM VIEW
(PEDESTAL BASE)

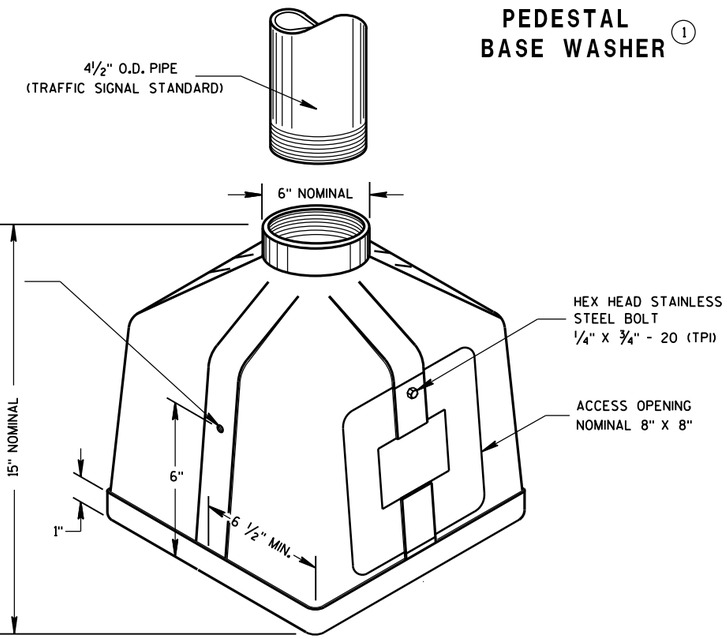


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

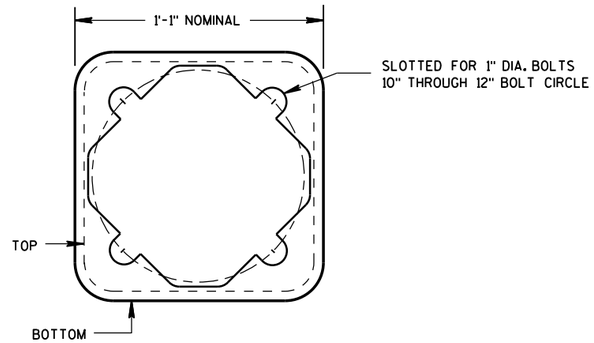


ISOMETRIC VIEW

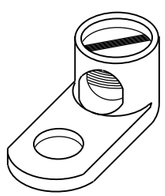


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

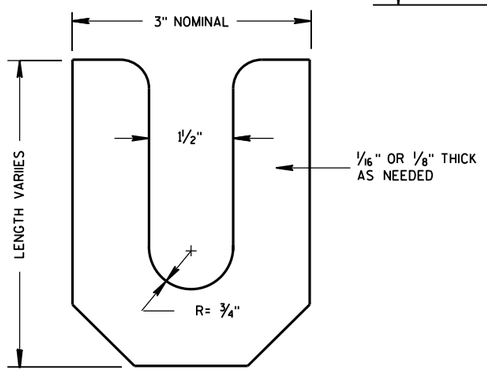


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

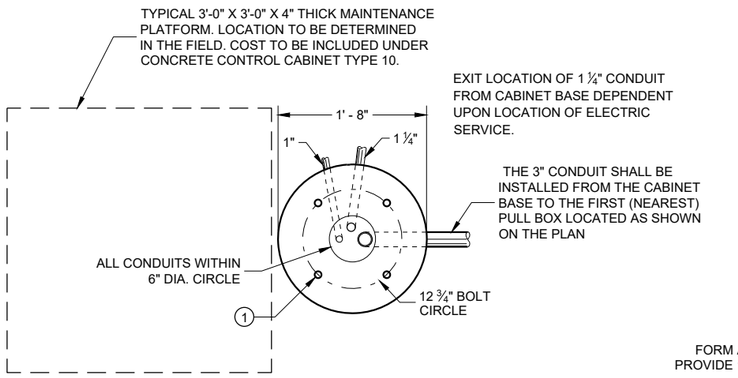
S.D.D. 9 C 3-4

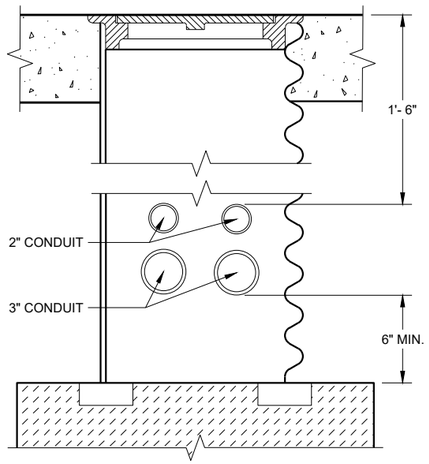
6

S.D.D. 9 C 3-4

CONTROL CABINET BASE TYPE	DIMENSIONS				CUBIC YARD CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65*

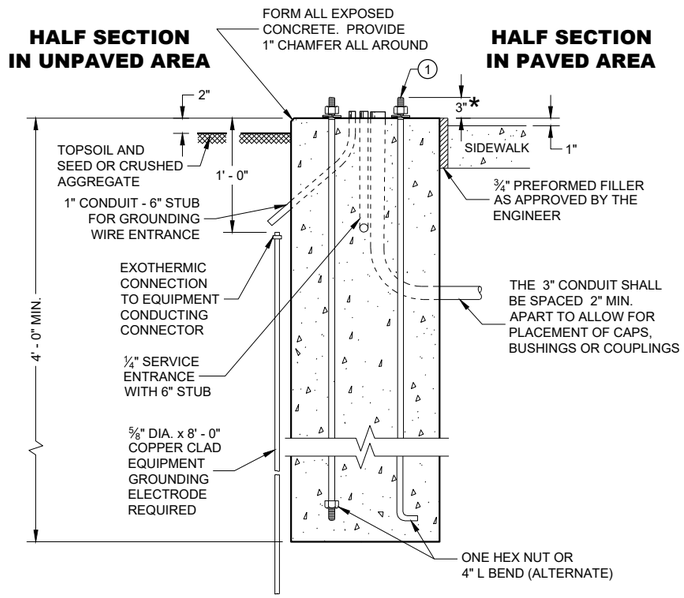
*INCLUDES MAINTENANCE PLATFORM.





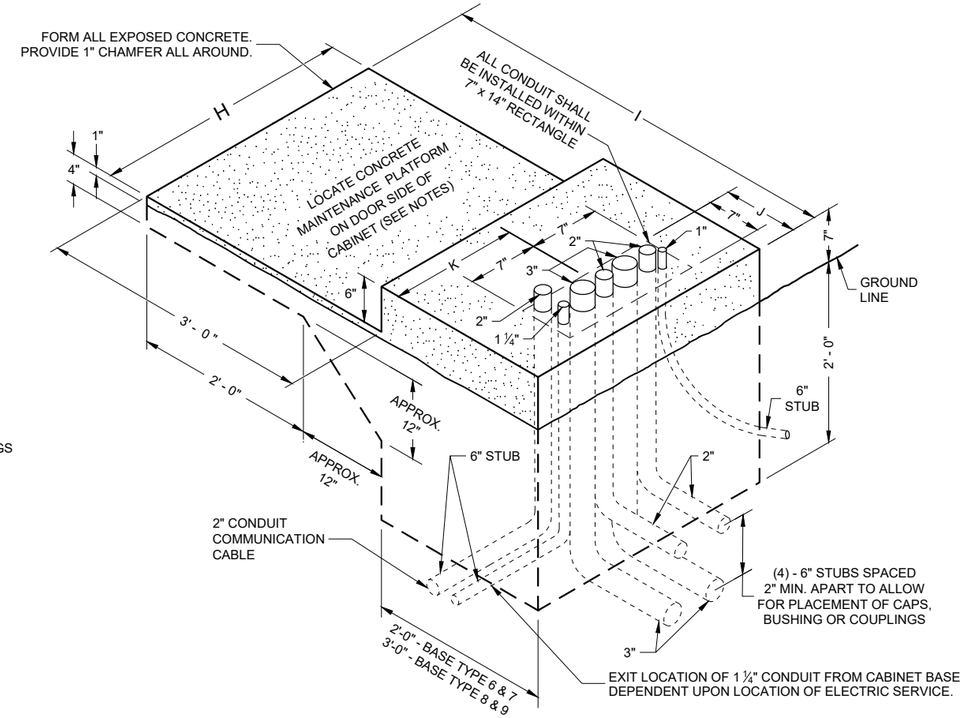
CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



TYPE 10

*ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.



ISOMETRIC VIEW
TYPE 6, 7, 8 AND 9

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR (4) ½" INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1 :40 FROM VERTICAL.

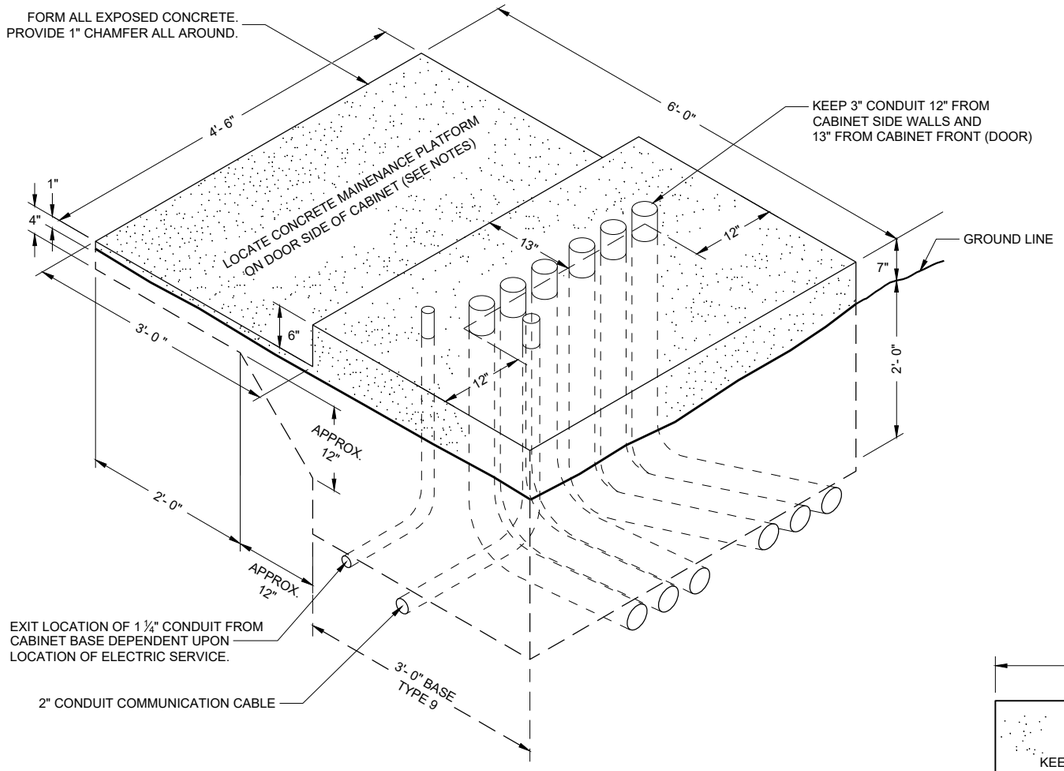
(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6". ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CABINET CONTROL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2016
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 437
FHWA

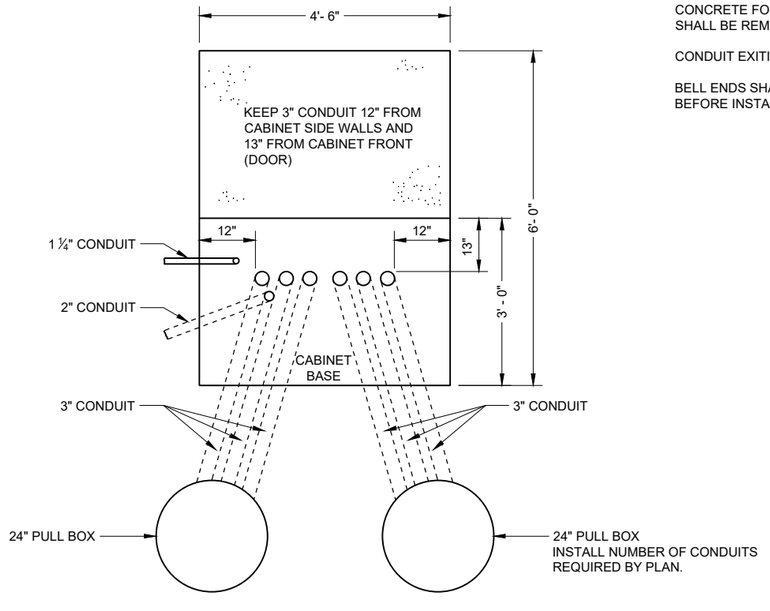
SDD 09C06 Concrete Control Cabinet Base, Type 9, Special



ISOMETRIC VIEW

TYPE 9 SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9 SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE (SIX 3") SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 438

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

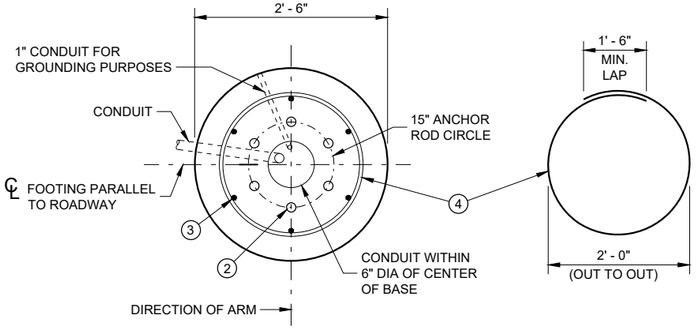
(2) (6) 1 ½ DIA. X 4' - 4" ANCHOR RODS

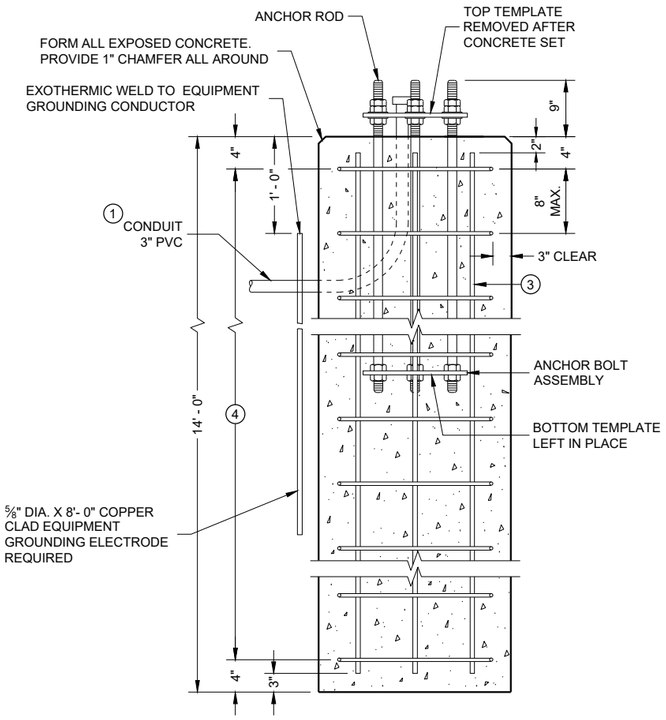
(3) (6) NO. 6 X 13' - 7" BAR STEEL REINFORCEMENT.

(4) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE .....fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.

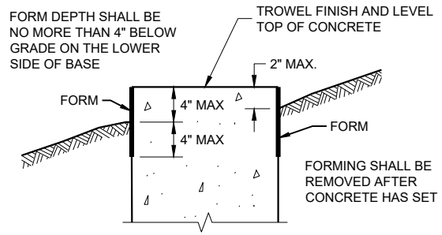
QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122



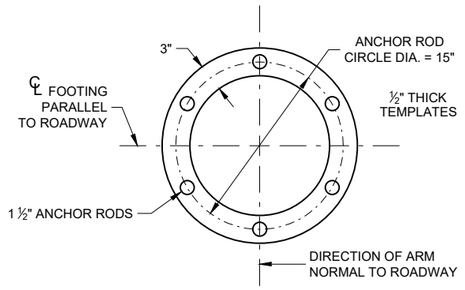


CONCRETE BASE, TYPE 10
(FOR TYPE 9, TYPE 10 AND OVER HEIGHT (OH) POLES)

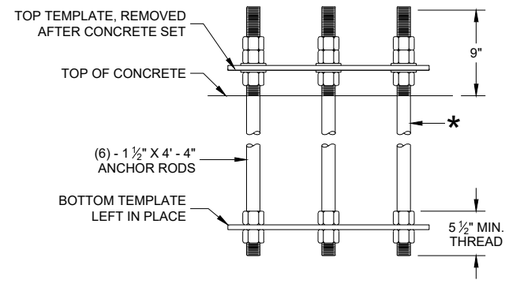
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE SDD 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demerbilek — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

6

SDD 09C11 - 10

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4 ½ INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4-FOOT COIL OF WIRE ABOVE THE CONCRETE BASE, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL WAY SHALL BE 24-INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36-INCHES, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

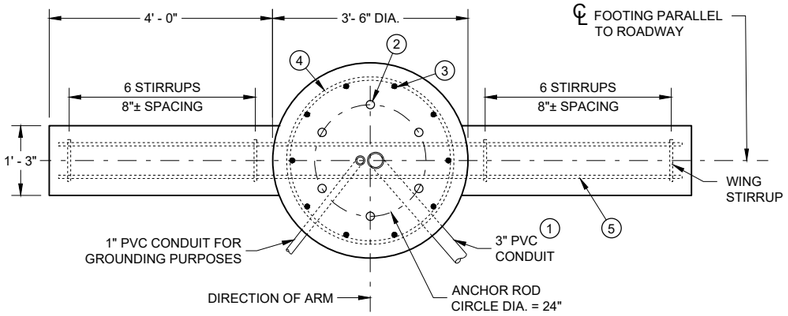
(2) (6) 1 ¾" DIA. X 7' - 2" ANCHOR RODS

(3) (10) NO. 6 X 14' - 1" BAR STEEL VERTICAL REINFORCEMENT.

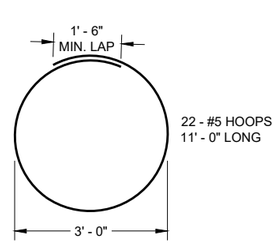
(4) (22) NO. 5 X 11'- 0" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

(5) (10) NO. 5 X 11' - 0" BAR STEEL HORIZONTAL REINFORCEMENT

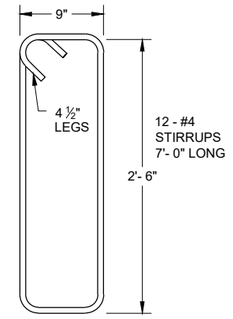
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE .....fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



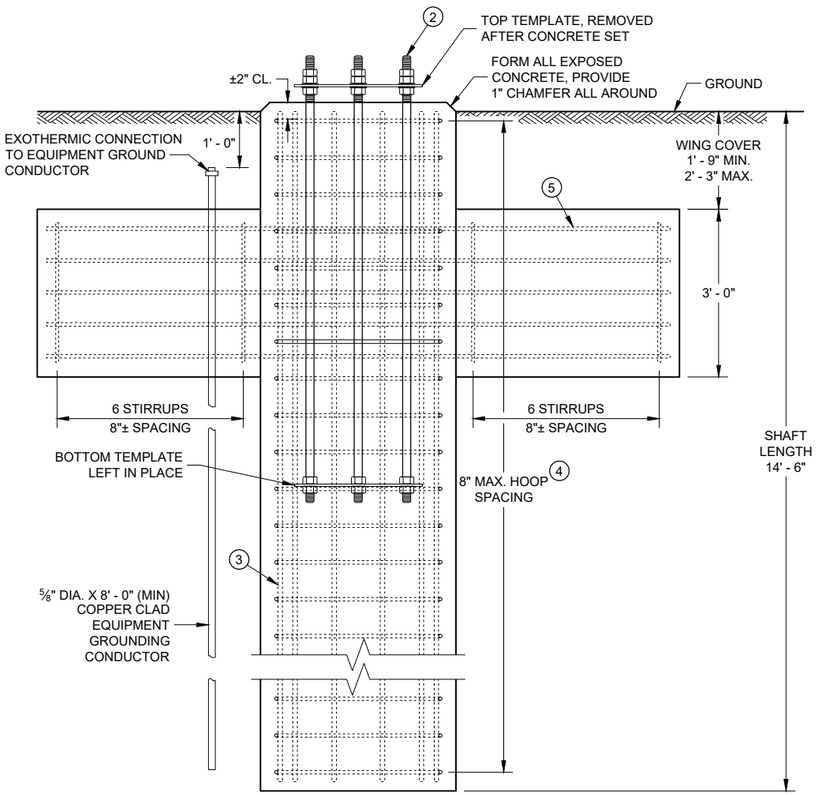
PLAN VIEW



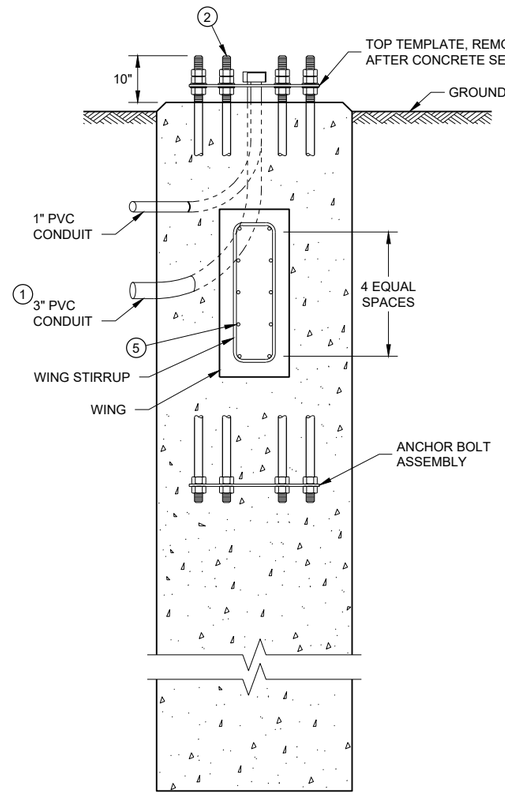
HOOP DETAIL



WING STIRRUP DETAIL



ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)

CONCRETE BASE, TYPE 13
(FOR TYPE 12, TYPE 13 AND OVER HEIGHT (OH) POLES)

CONCRETE = 6.3 CUBIC YARD
H.S. REINFORCEMENT = 635 LBS.

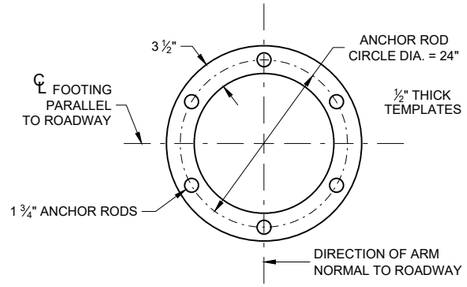
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION

CONCRETE BASE TYPE 13

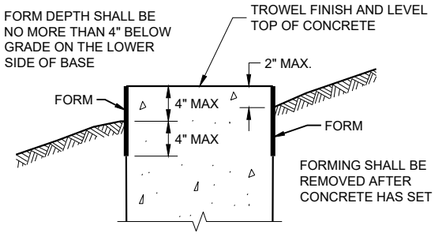
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

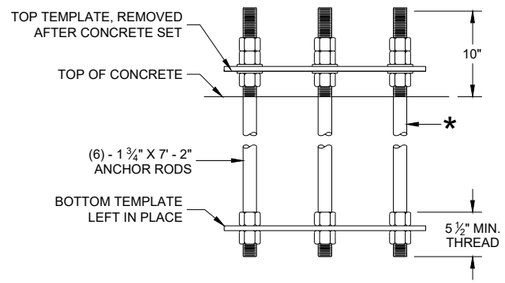
SDD 09C12 - 09a



TOP AND BOTTOM TEMPLATE



FORMING DETAIL



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 11" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

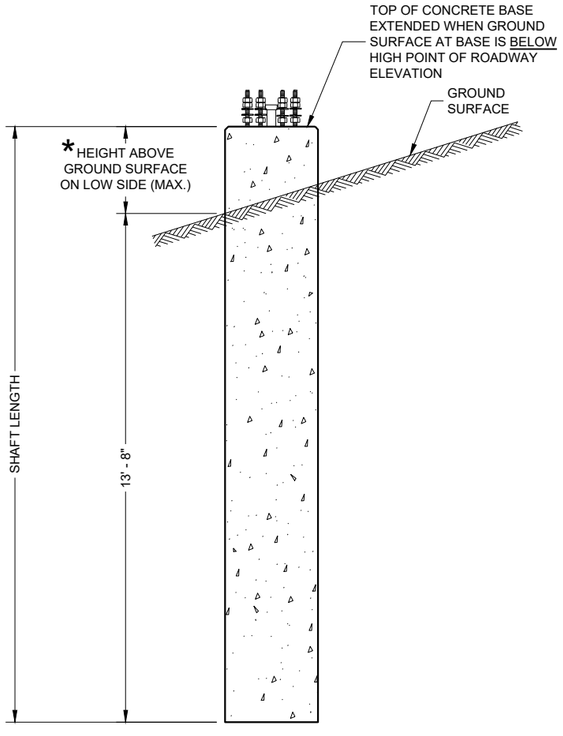
APPROVED
May 2017
DATE
/S/ Ahmet Demirbilek
WIND LOADED STRUCTU
PROGRAM LEADER
FHWA

6

SDD 09C12 - 09b

REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 10 CONCRETE BASE

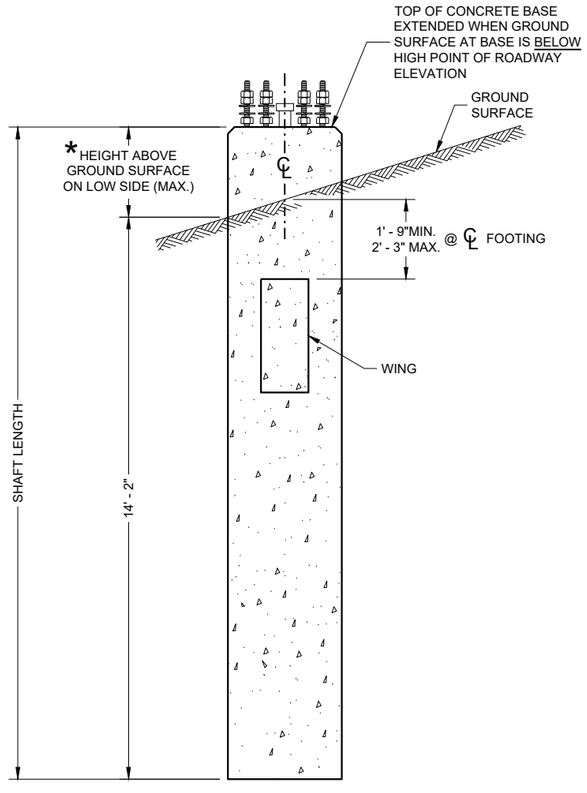
HEIGHT INCREASE REQUIRED	*HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAX.)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #5 HOOPS	CU. YD. OF CONCRETE	LBS. OF HOOP BAR STEEL	LBS. OF VERTICAL STEEL
>0" TO 6"	10"	14' - 6"	14' - 1"	22	2.6	180	127
>6" TO 1' - 0"	1' - 4"	15' - 0"	14' - 7"	23	2.7	188	131
>1' - 0" TO 1' - 6"	1' - 10"	15' - 6"	15' - 1"	24	2.8	196	136
>1' - 6" TO 2 - 0"	2' - 4"	16' - 0"	15' - 7"	24	2.9	196	141



CONCRETE BASE TYPE 10 (EXTENDED)

REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 13 CONCRETE BASE

HEIGHT INCREASE REQUIRED	*HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAX.)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #5 HOOPS	CU. YD. OF CONCRETE	LBS. OF H.S. BAR STEEL
>0" TO 6"	10"	15' - 0"	14' - 7"	23	6.5	654
>6" TO 1' - 0"	1' - 4"	15' - 6"	15' - 1"	24	6.6	673
>1' - 0" TO 1' - 6"	1' - 10"	16' - 0"	15' - 7"	24	6.8	680
>1' - 6" TO 2 - 0"	2' - 4"	16' - 6"	16' - 1"	25	7.0	699



CONCRETE BASE TYPE 13 (EXTENDED)

CONCRETE BASE TYPE 10 AND TYPE13 EXTENSION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 442

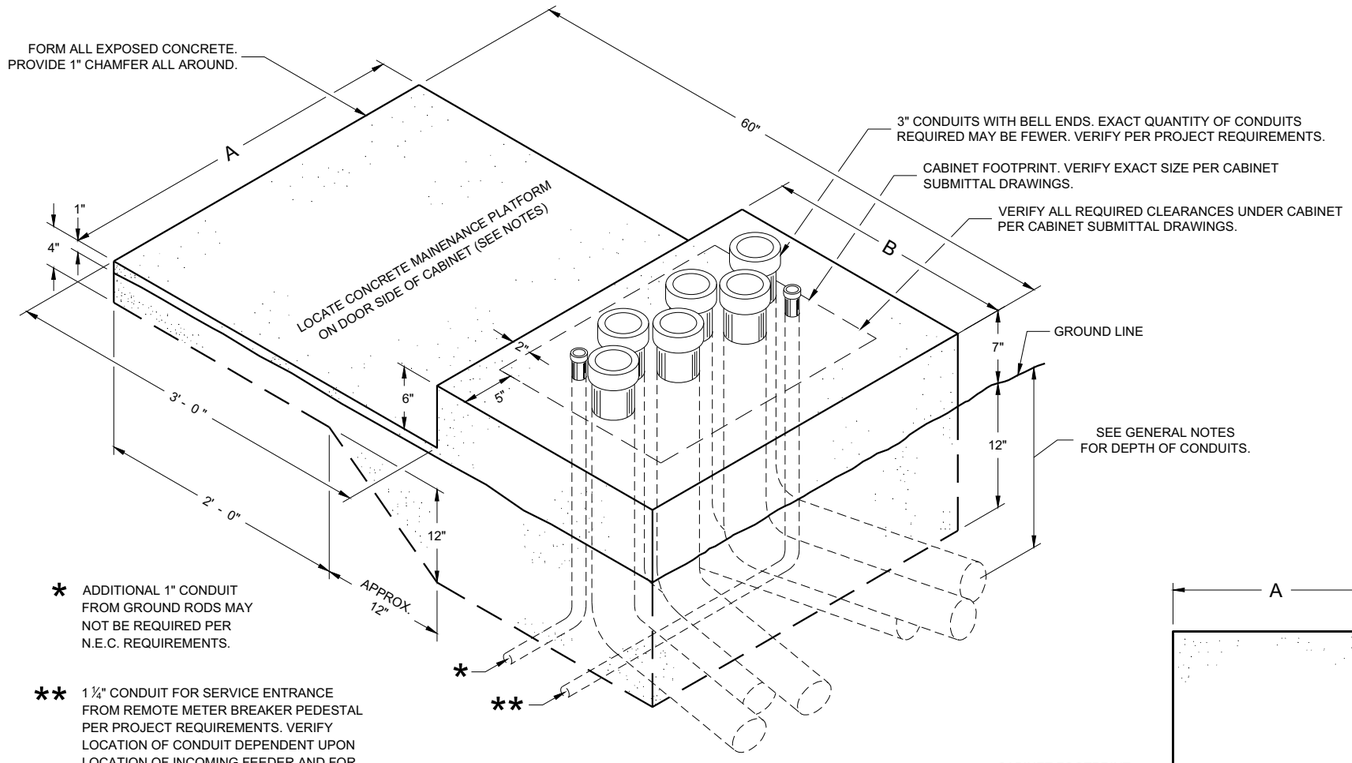
FHWA

6

SDD 09C13 - 03

6

SDD 09C13 - 03



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

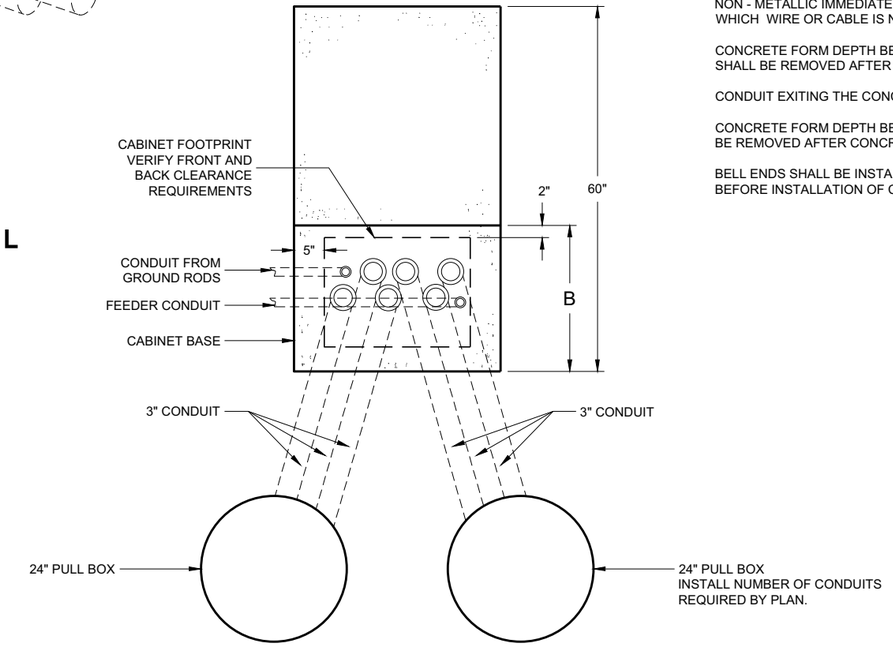
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 443

FHWA

SDD 09C14 - 03

SDD 09C14 - 03

6

6

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOUNDATION AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

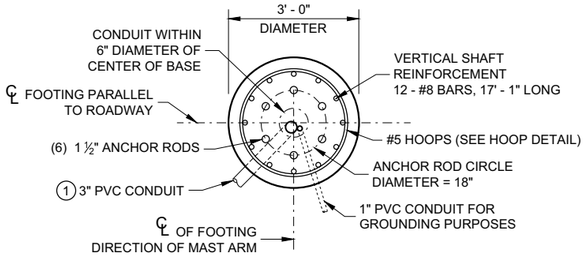
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

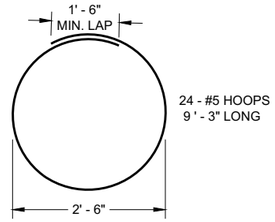
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

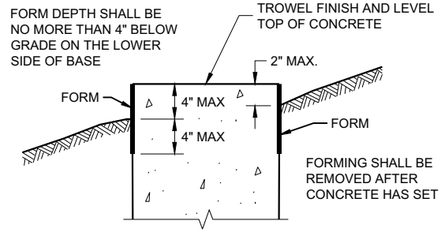
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



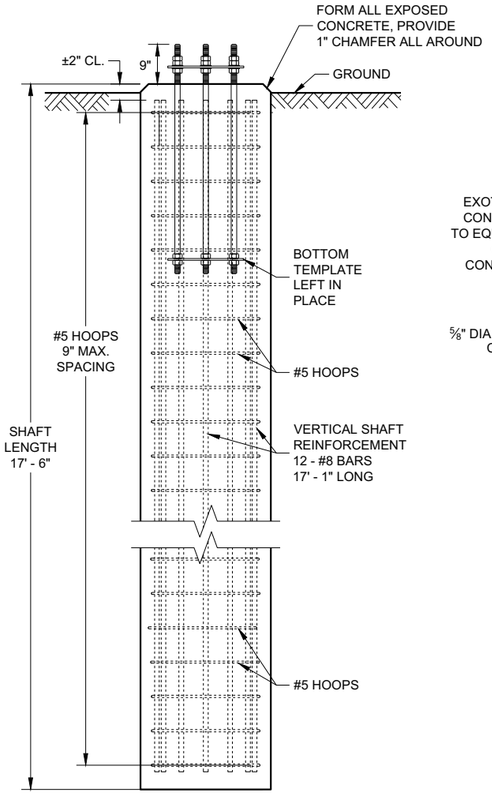
PLAN VIEW



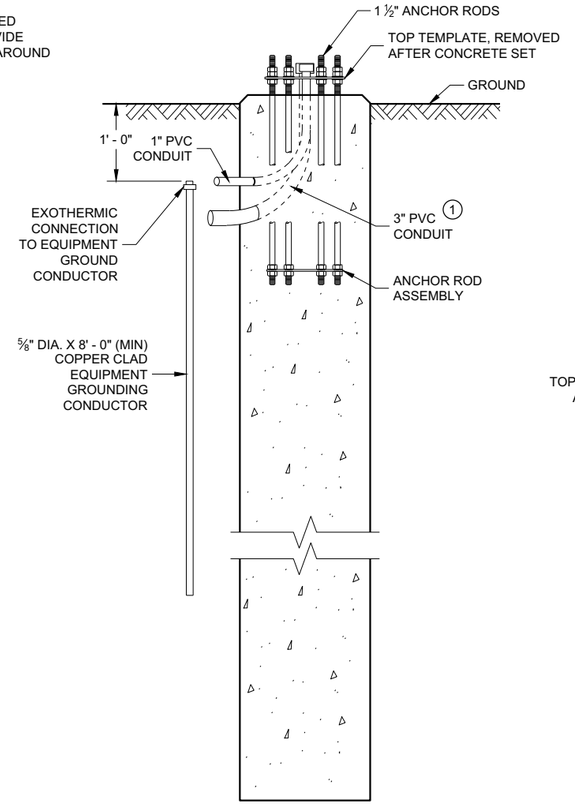
HOOP DETAIL



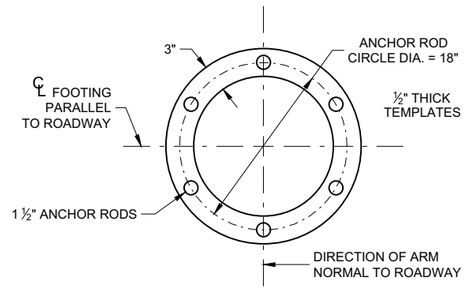
FORMING DETAIL



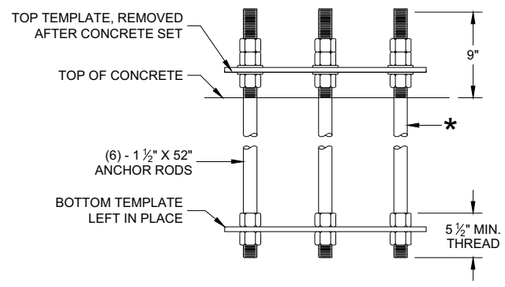
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



SIDE VIEW
(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

6

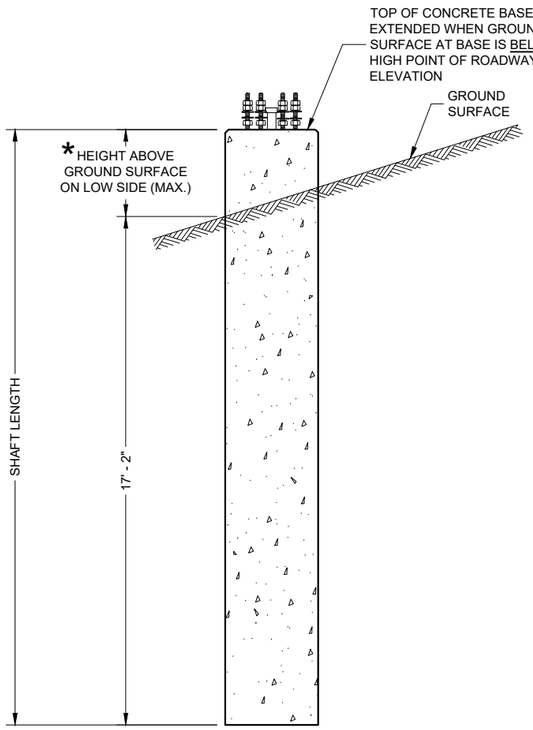
SDD 09C15 - 01

6

SDD 09C15 - 01

REINFORCEMENT AND CONCRETE QUANTITIES
ADJUSTED FOR EXTENDED TYPE 10 SPECIAL CONCRETE BASE

HEIGHT INCREASE REQUIRED	*HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAX.)	SHAFT LENGTH	LENGTH OF #8 VERTICAL REINF.	NO. OF #5 HOOPS	CU. YD. OF CONCRETE	LBS. OF HOOP BAR STEEL	LBS. OF VERTICAL STEEL
>0" TO 6"	10"	18' - 0"	17' - 7"	25	4.7	241	563
>6" TO 1' - 0"	1' - 4"	18' - 6"	18' - 1"	25	4.8	241	579
>1' - 0" TO 1' - 6"	1' - 10"	19' - 0"	18' - 7"	26	5.0	251	595
>1' - 6" TO 2 - 0"	2' - 4"	19' - 6"	19' - 1"	27	5.1	260	611



CONCRETE BASE TYPE 10 SPECIAL (EXTENDED)

CONCRETE BASE TYPE 10 SPECIAL EXTENSION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 445

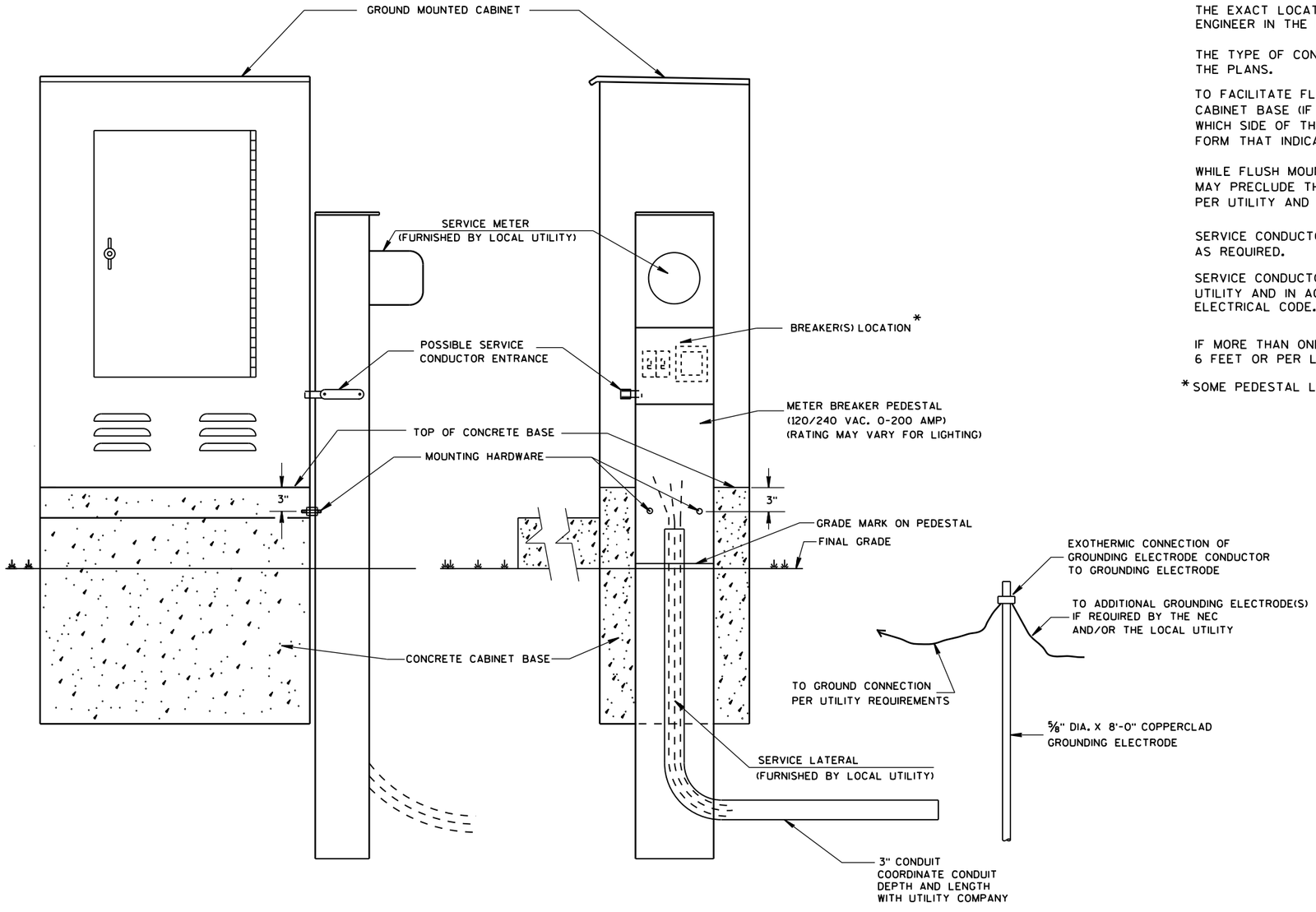
FHWA

6

SDD 09C16-01

6

SDD 09C16-01



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

6

S.D.D. 9 D 1-5

6

S.D.D. 9 D 1-5

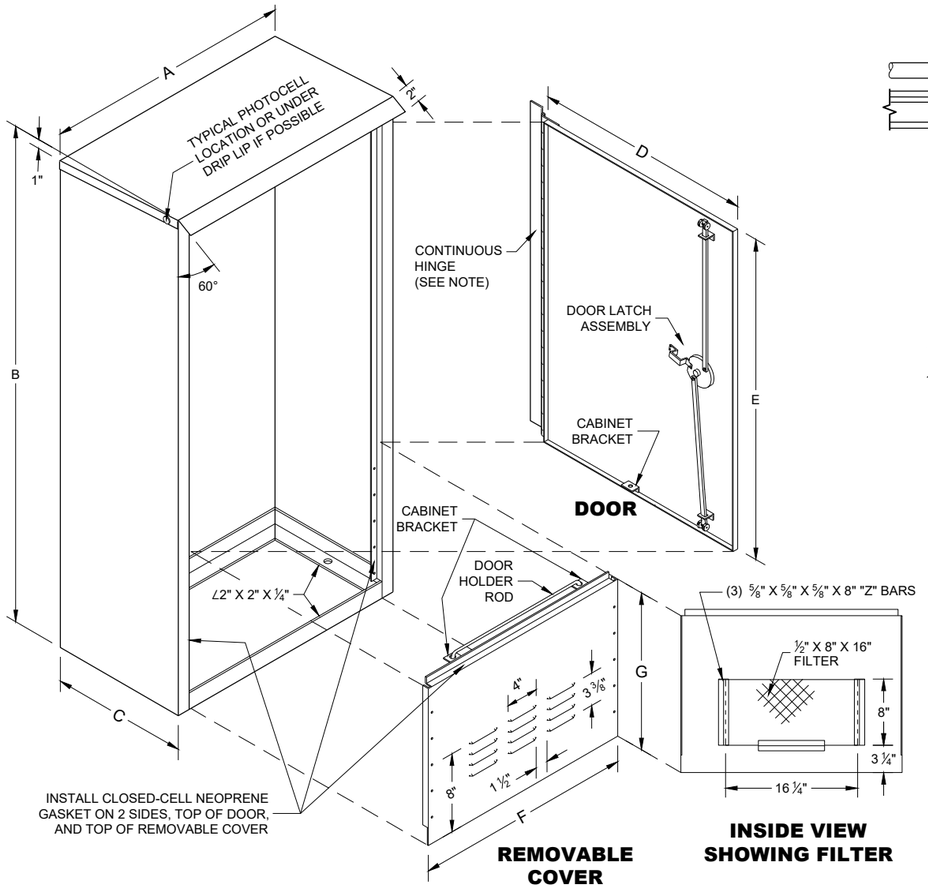
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

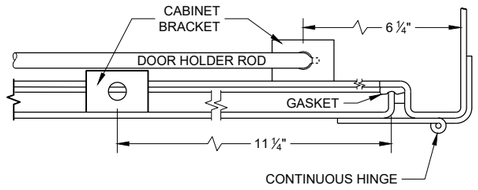
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

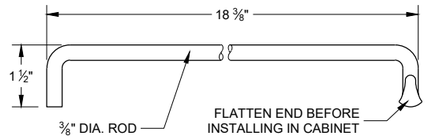
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

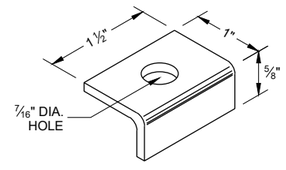




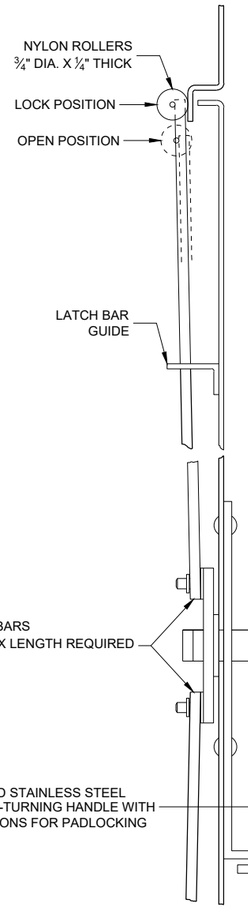
HINGE AND DOOR HOLDER

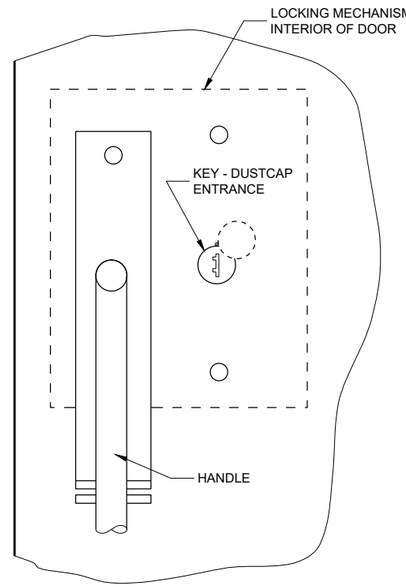


HOLDER ROD



CABINET BRACKET





SIDE VIEW **FRONT VIEW**

LATCH ASSEMBLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

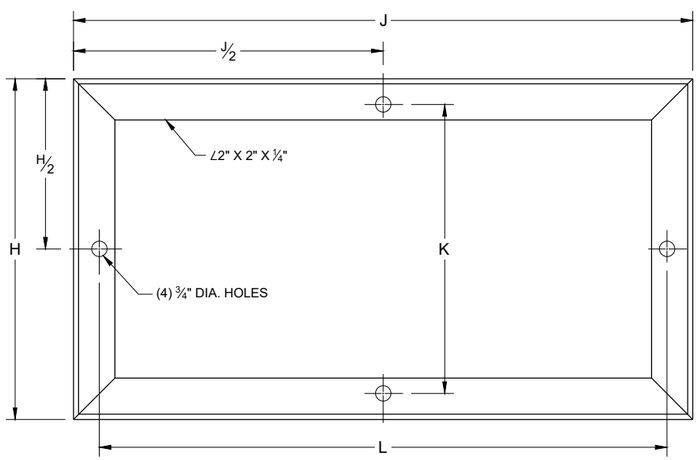
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH ¼" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH ¼" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH - NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

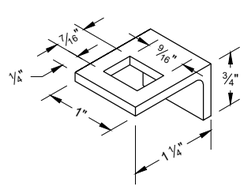
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 ½	16 ½	24
D	26 ½	34 ¾	33 ¾
E	38 ¾	38 ¾	38 ¾
F	26 ½	34 ¾	33 ¾
G	19	19	25
H	16 ½	16 ½	24
H/2	8 ¼	8 ¼	12
J	30	38	38
J/2	15	19	19
K	13 ¾	13 ¾	21 ¼
L	27 ½	35 ½	35 ½



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 447

FHWA

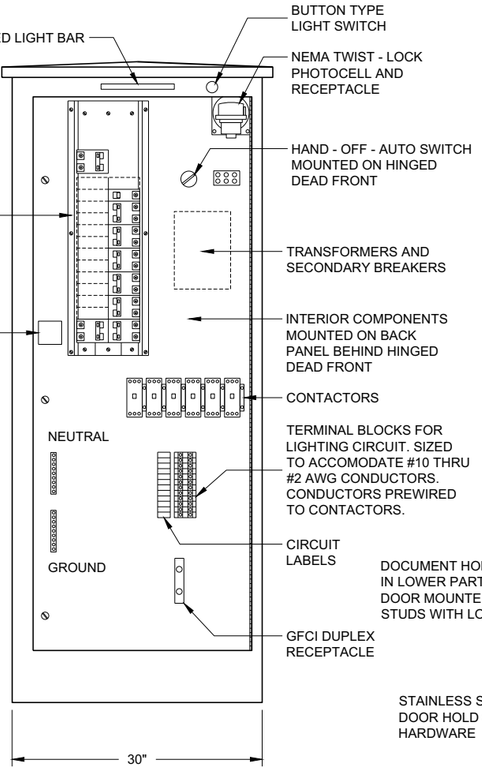
SDD 09D02 - 03

SDD 09D02 - 03

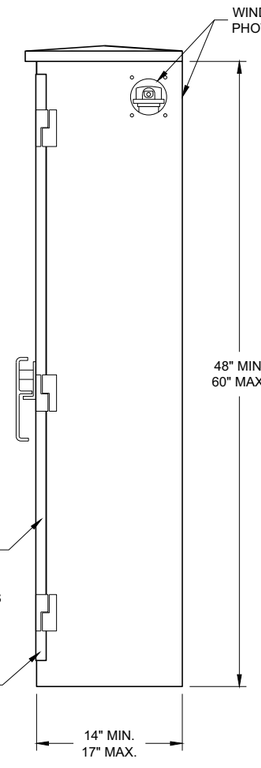
6

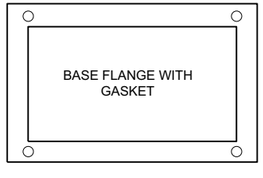
6

FRONT INTERIOR ELEVATION

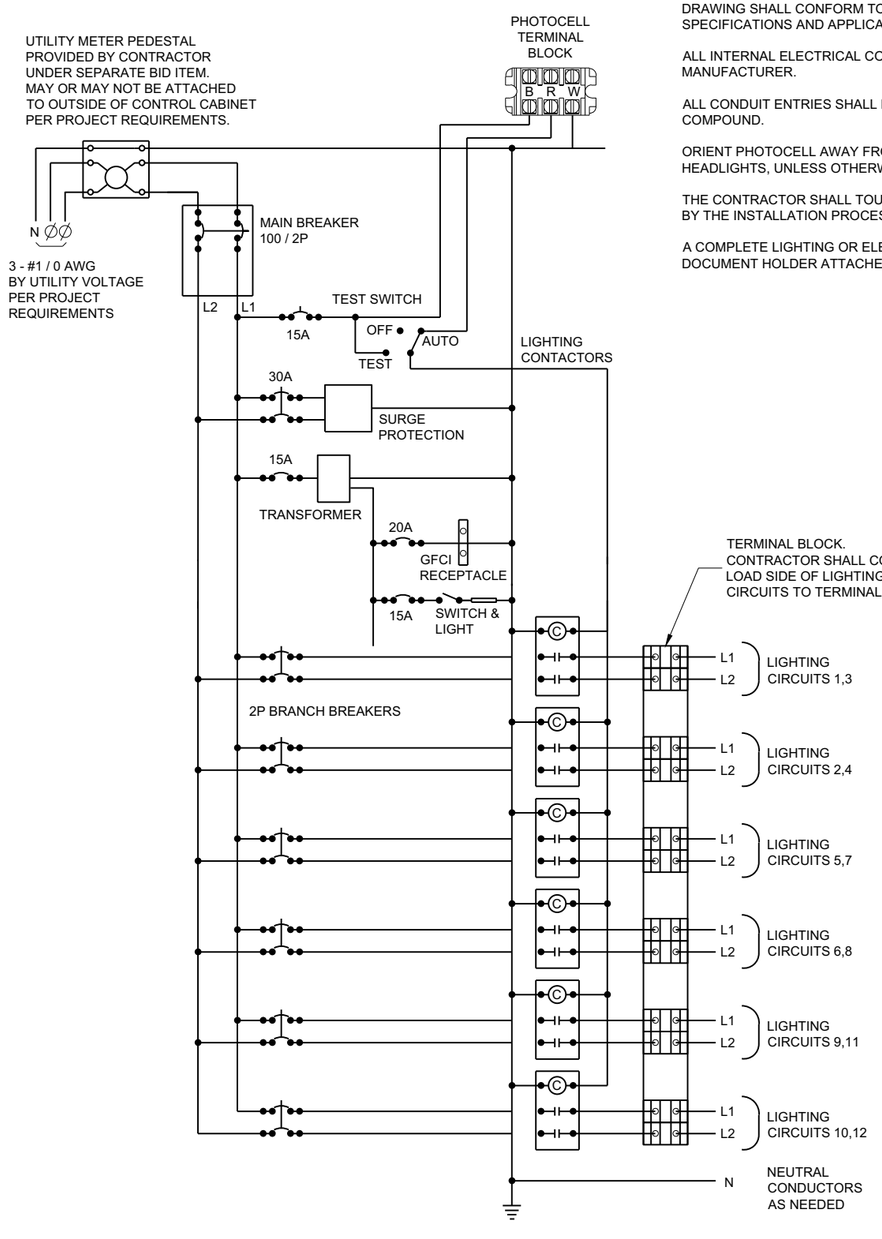


SIDE VIEW





LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

L30
LIGHTING CONTROL CABINET
240 / 480 VOLT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

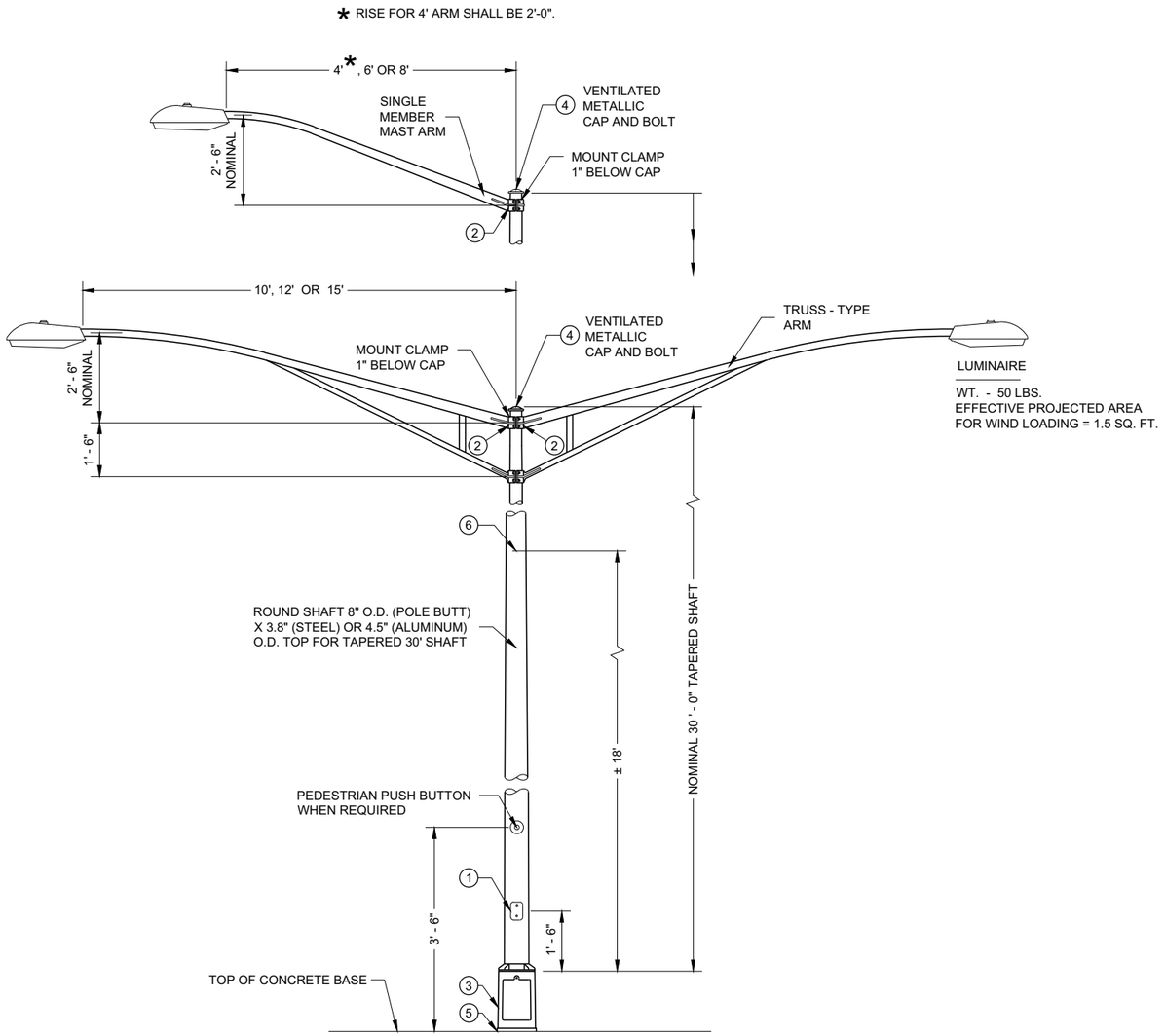
APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 448

FHWA

6

SDD 09D05 - 02



TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

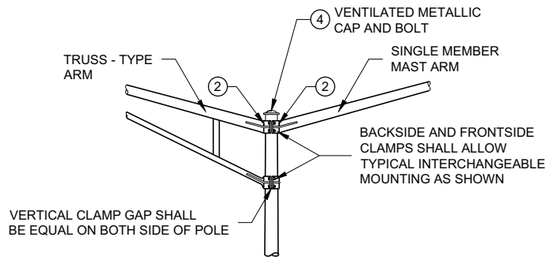
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

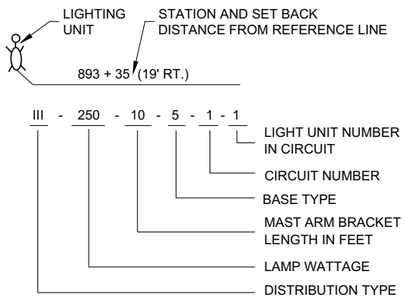
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

GENERAL NOTES

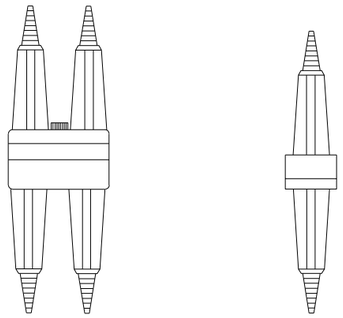
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

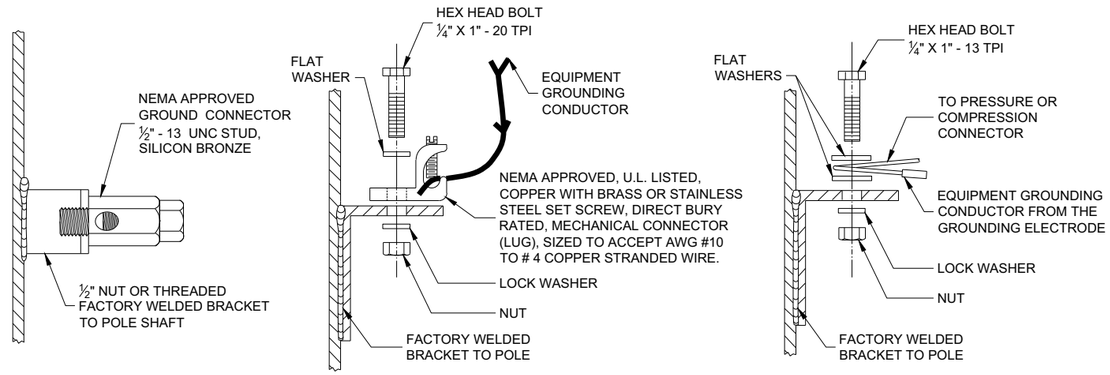


LIGHTING UNIT CODE
(TYPICAL)

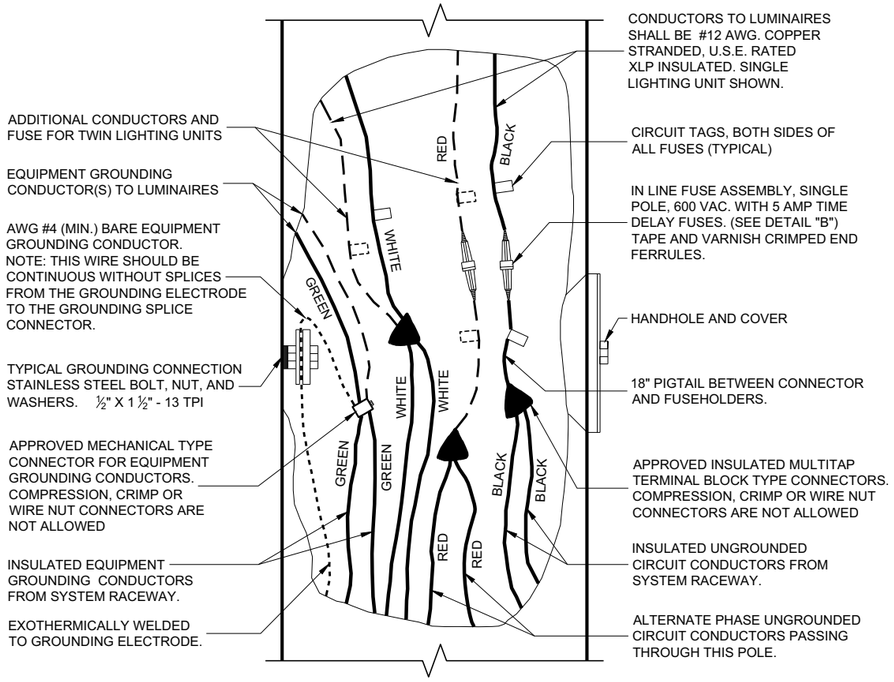


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

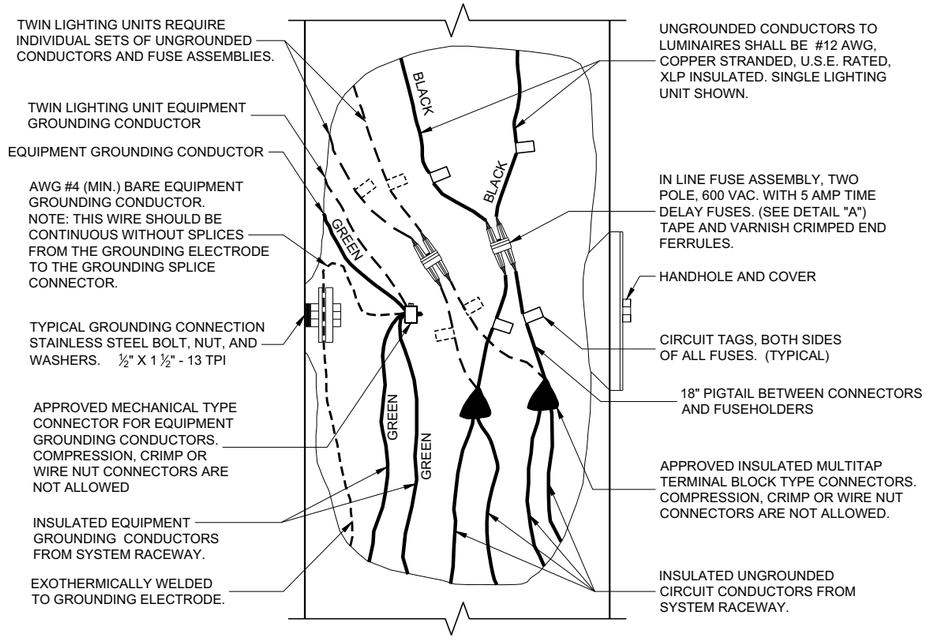
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



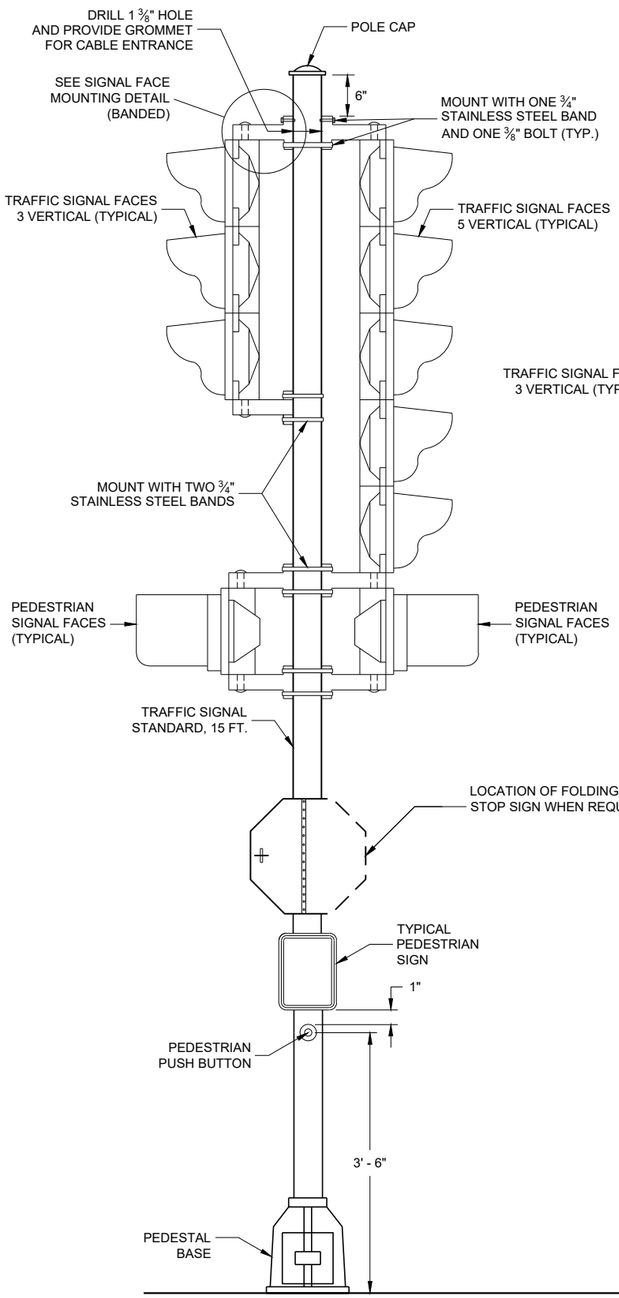
2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

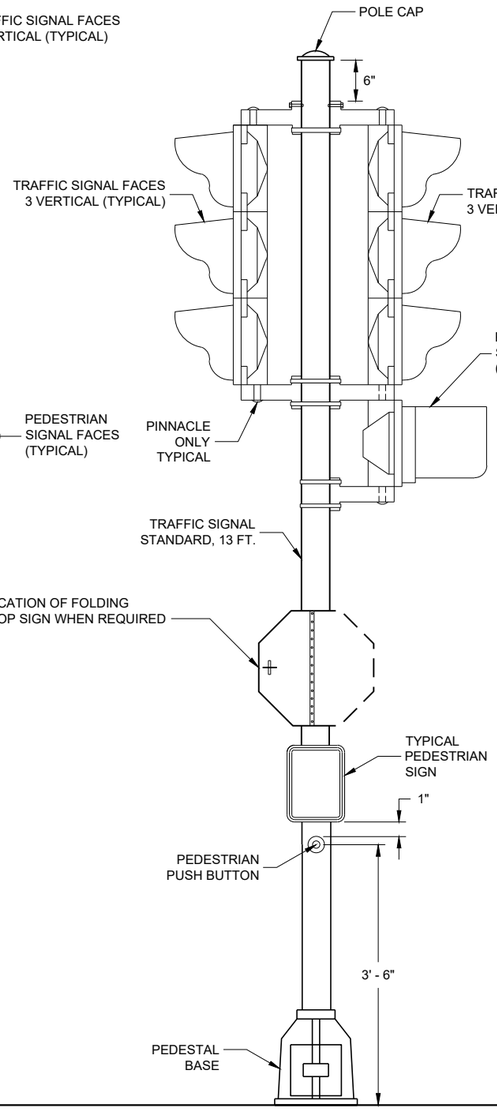
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 450

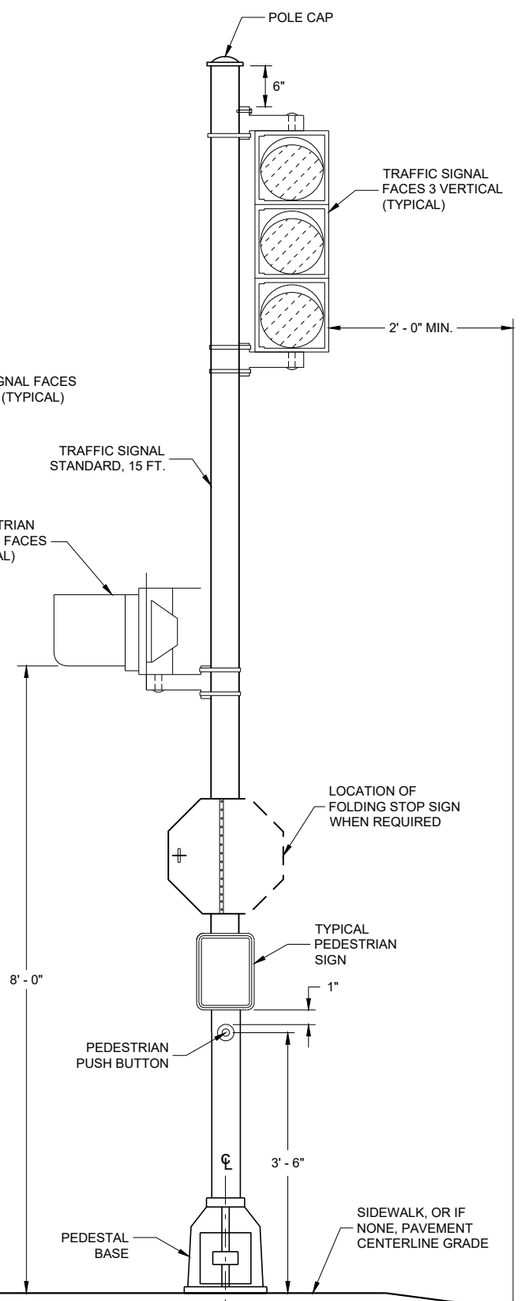
FHWA



TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL TANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

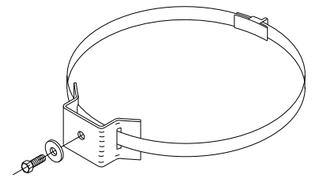
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

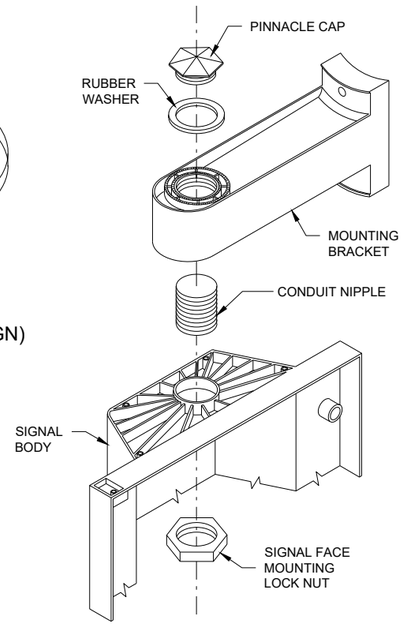
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

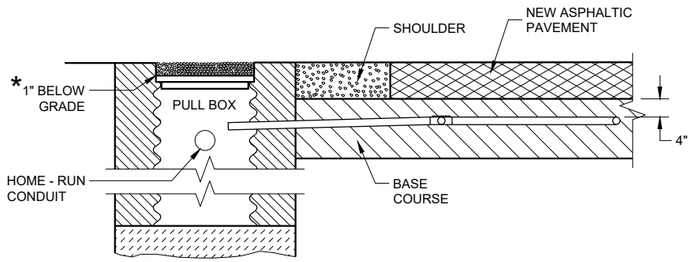
TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 451

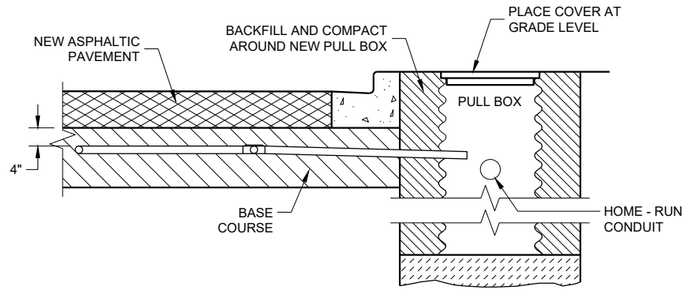
FHWA

6
SDD 09E06 - 05



SECTION A - A
NO CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL



SECTION B - B
CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL

* RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

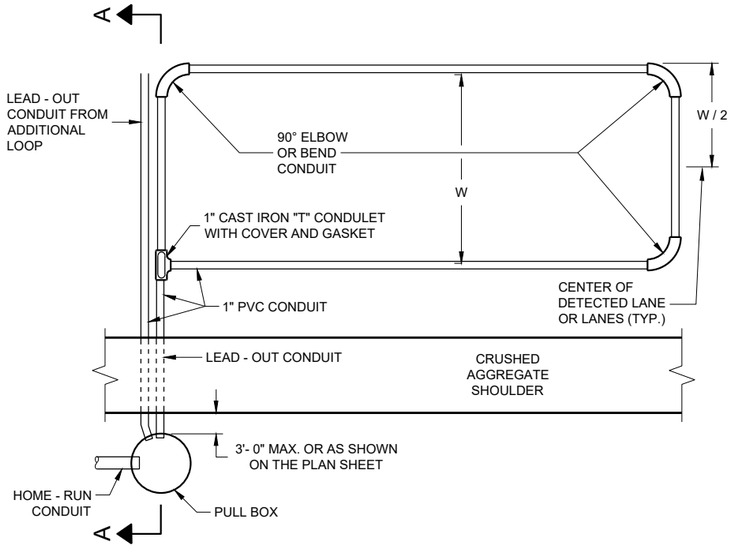
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE PULL BOX IN THE BASE COURSE, AND THE RELATED CONDUITS SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW CONCRETE PAVEMENT IS POURED.

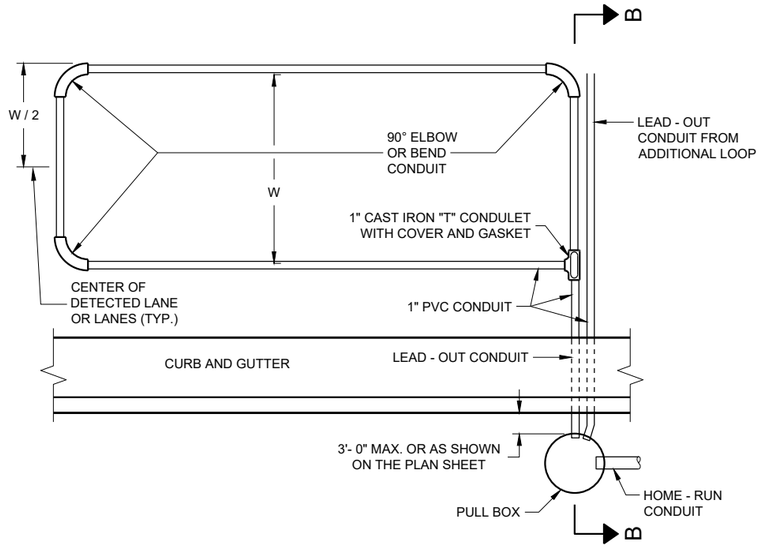
PROTECTION OF THE PULL BOX AND CONDULET SHALL BE REQUIRED AFTER THE ASPHALTIC PAVEMENT IS PLACED.

WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE, PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".



TYPICAL PLAN OF LOOP DETECTOR



TYPICAL PLAN OF LOOP DETECTOR

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)

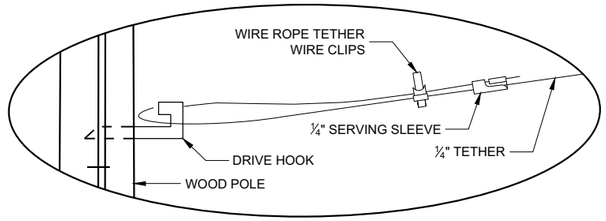
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 452

FHWA

6
SDD 09F08 - 04

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

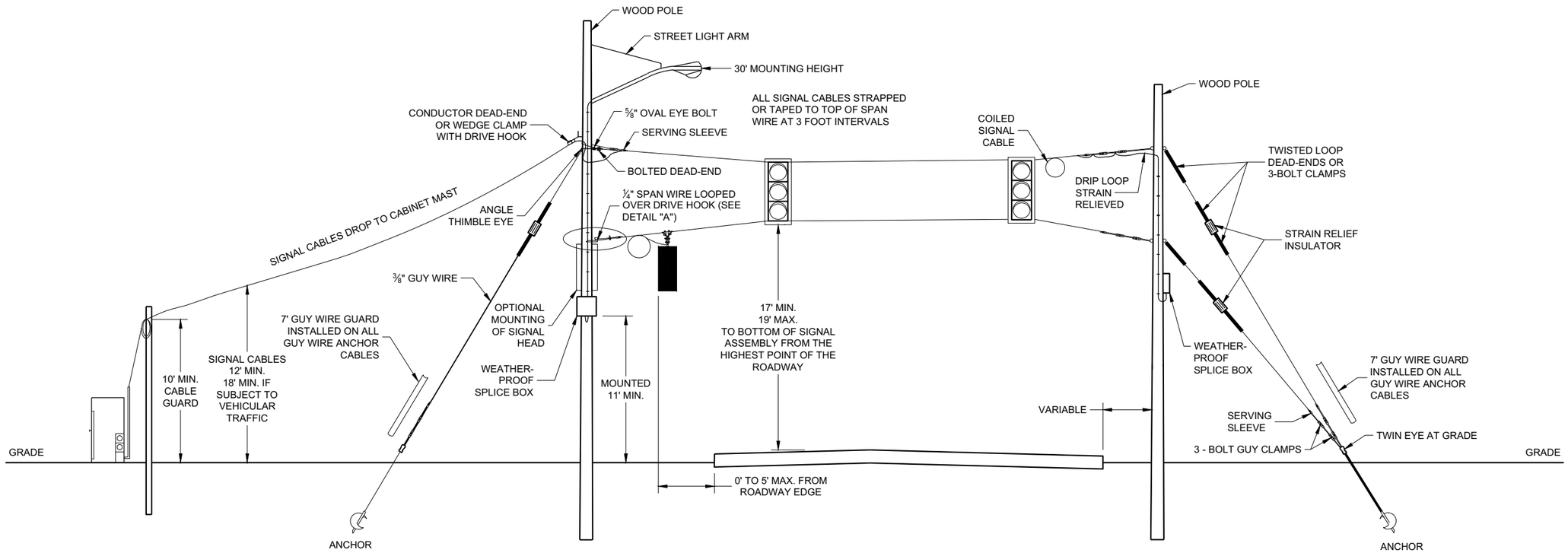


DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — STATE ELECTRICAL ENGI
453

FHWA

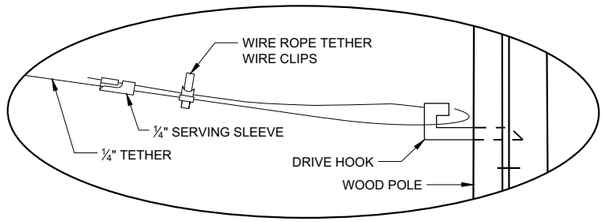
6

6

SDD09G01 - 04a

SDD09G01 - 04a

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

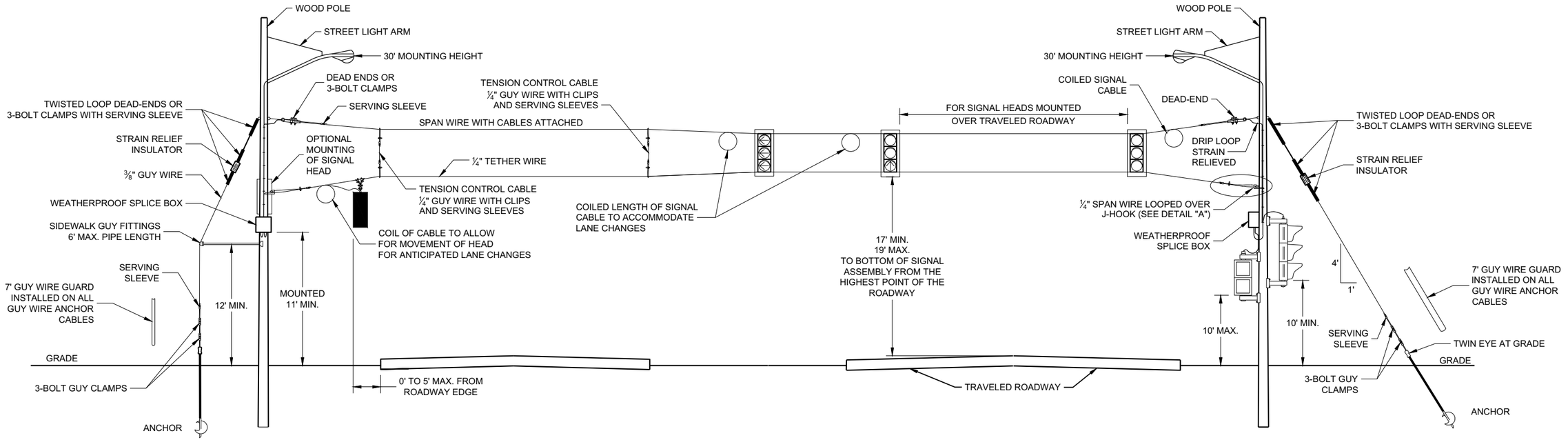


DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE TEMPORARY SIGNALS

4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 454

FHWA

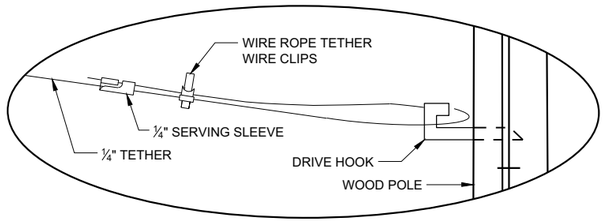
6

6

SDD09G01 - 04b

SDD09G01 - 04b

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

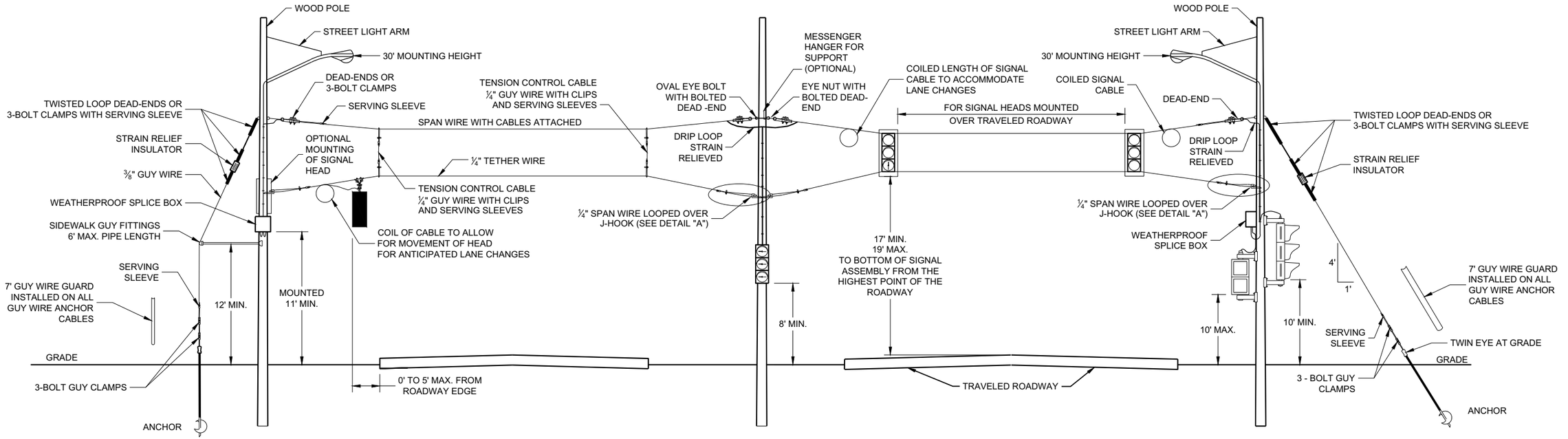


DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   - A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   - B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   - C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   - D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   - E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   - A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   - B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   - C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 455

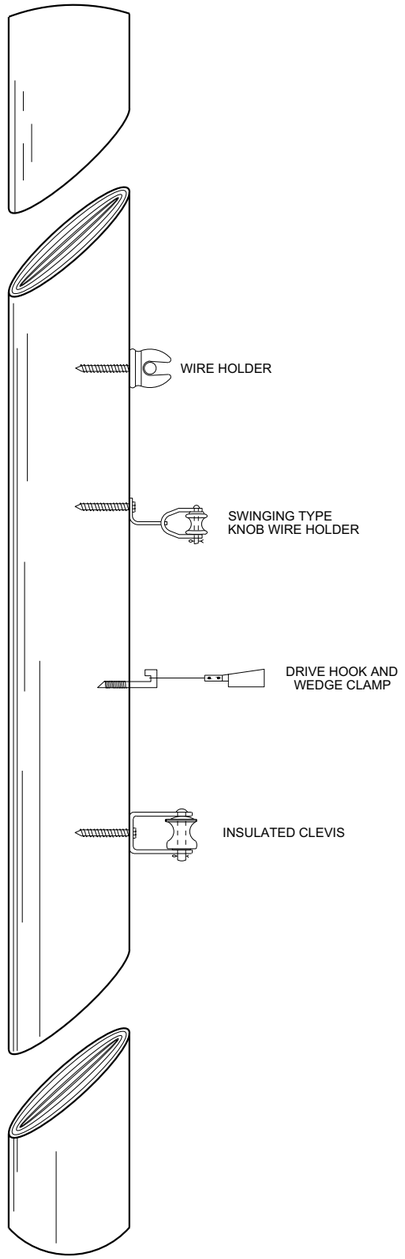
FHWA

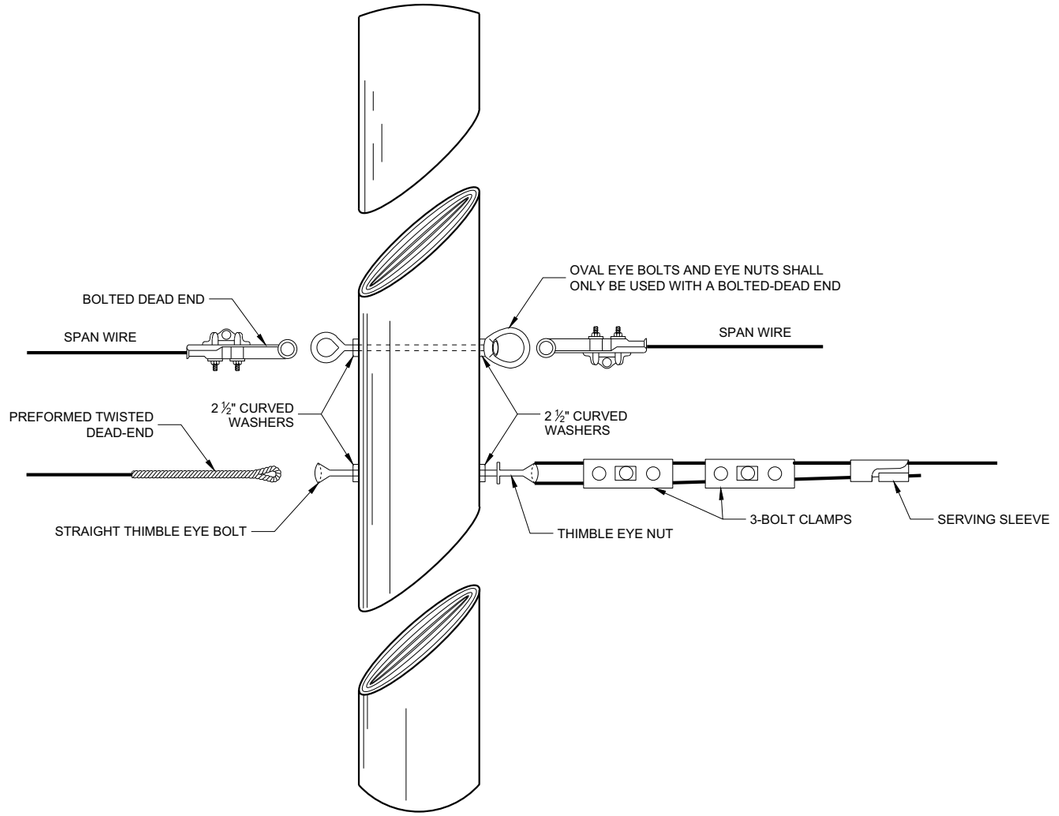
6

6

SDD09G01 - 04c

SDD09G01 - 04c





6

6

SDD 09G01 - 4d

SDD 09G01 - 4d

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015
DATE

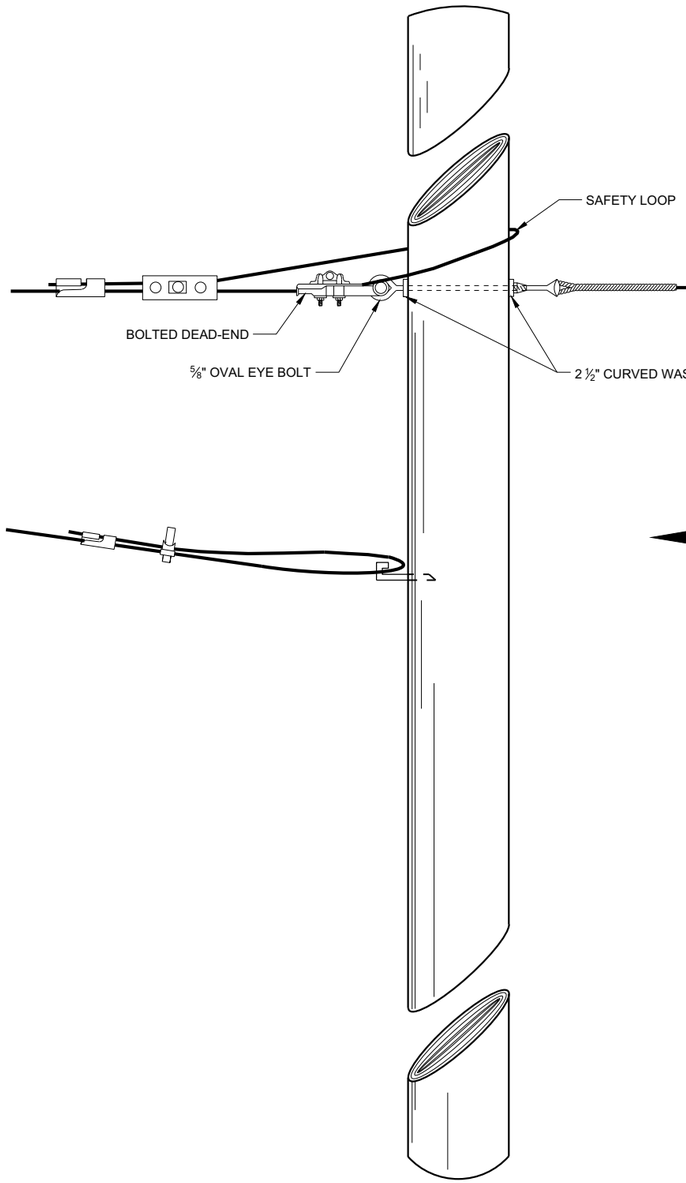
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

456

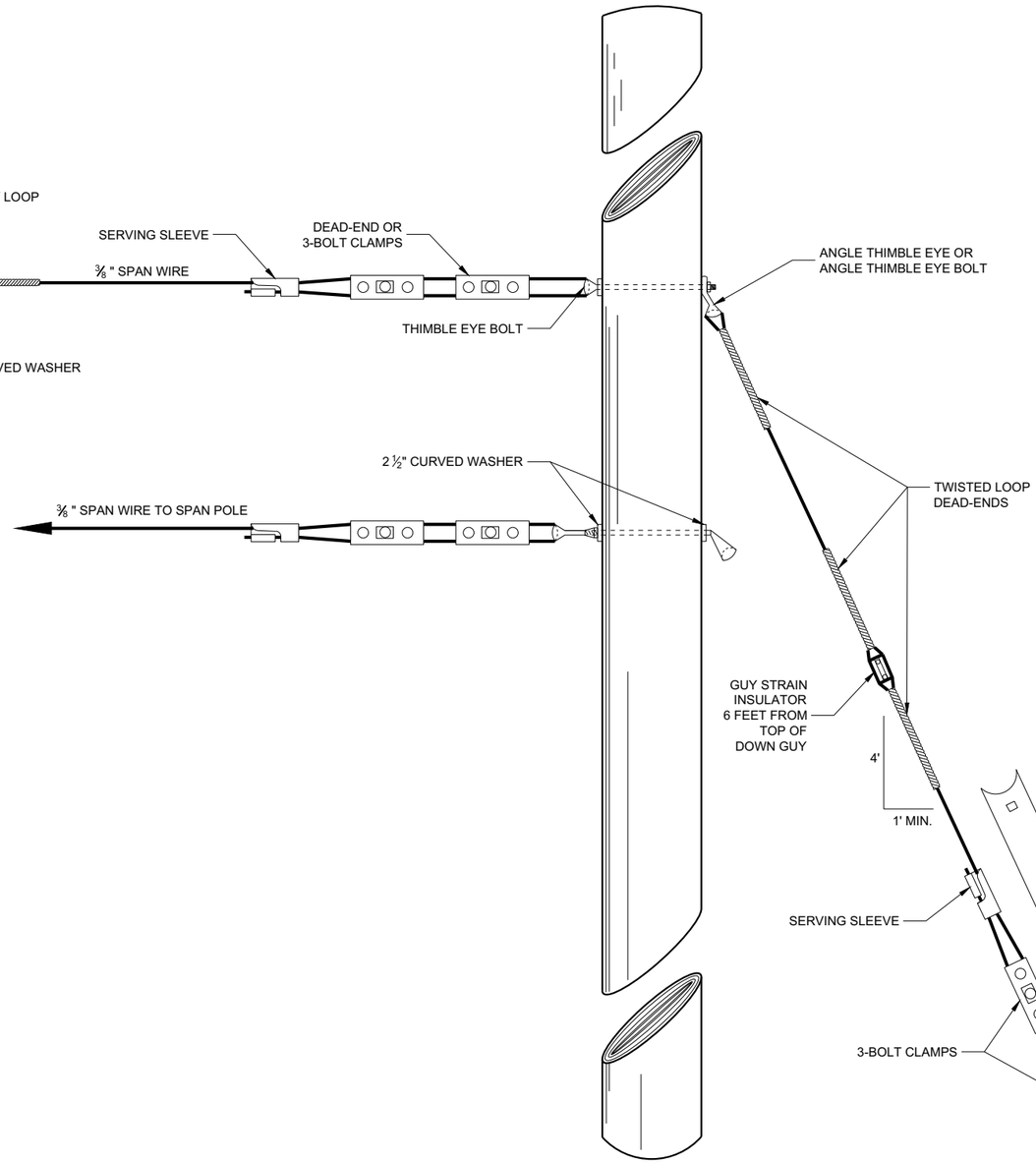
FHWA

GENERAL NOTES

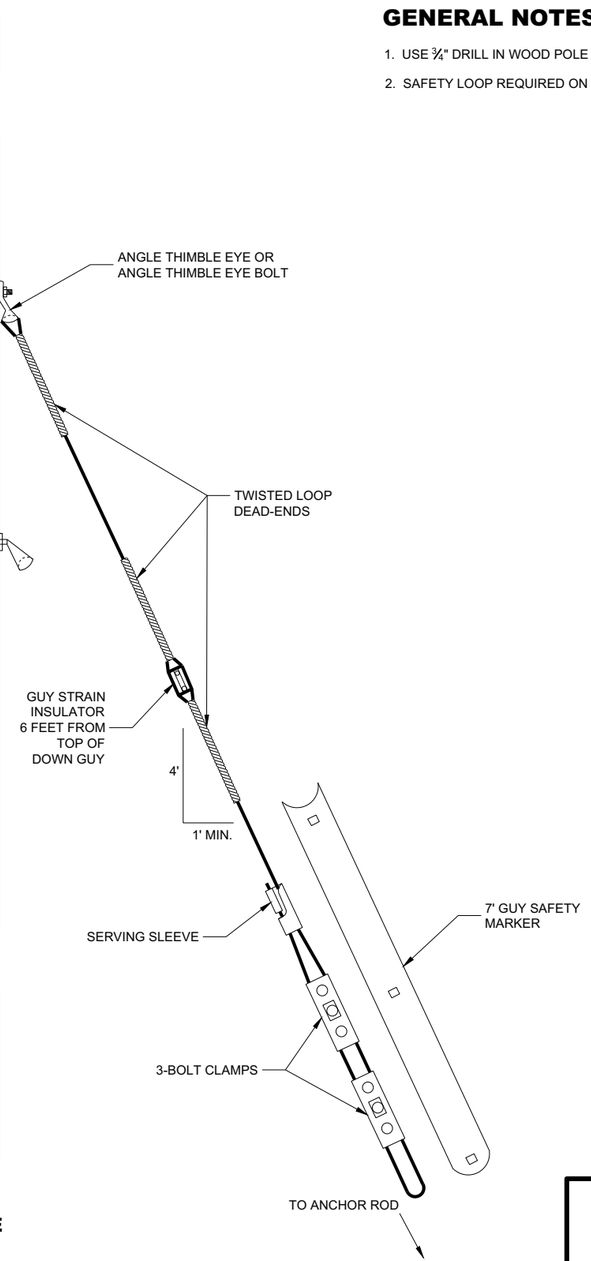
1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE



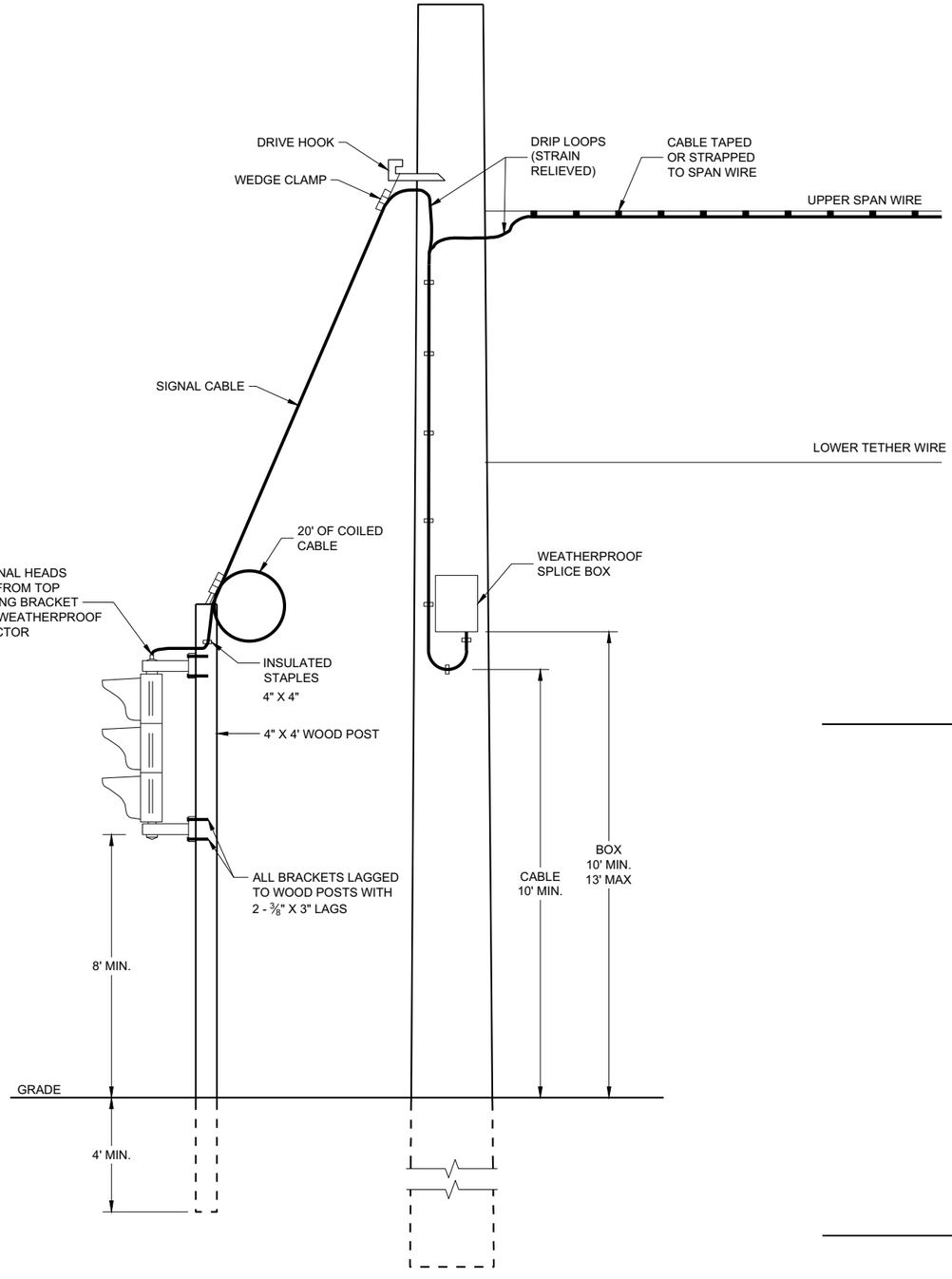
TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

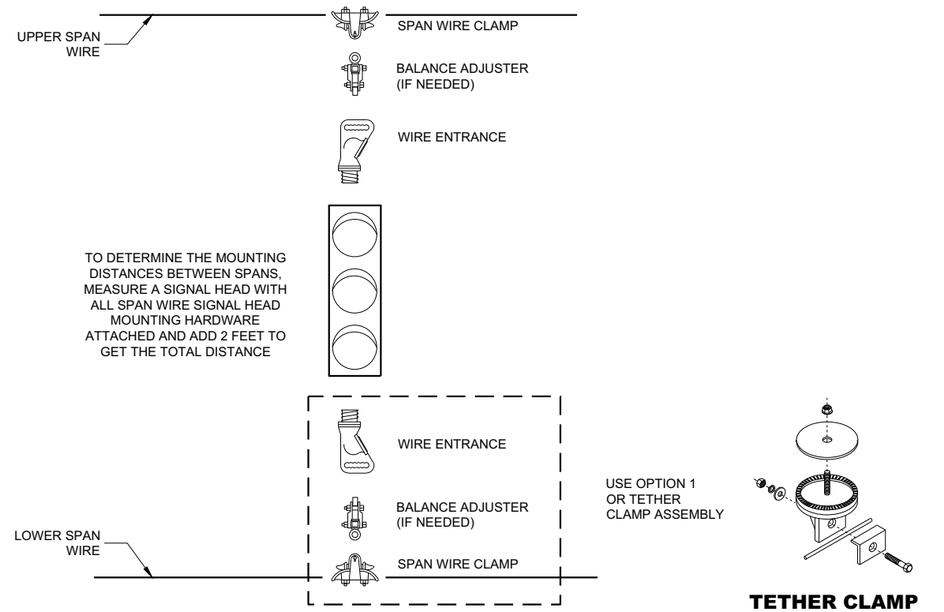
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER
457
FHWA

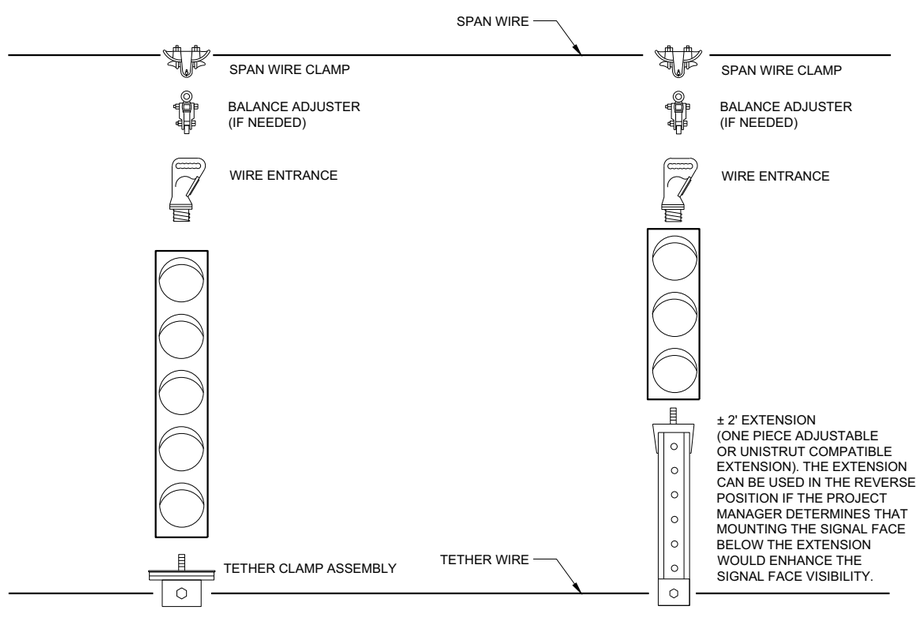
6
SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

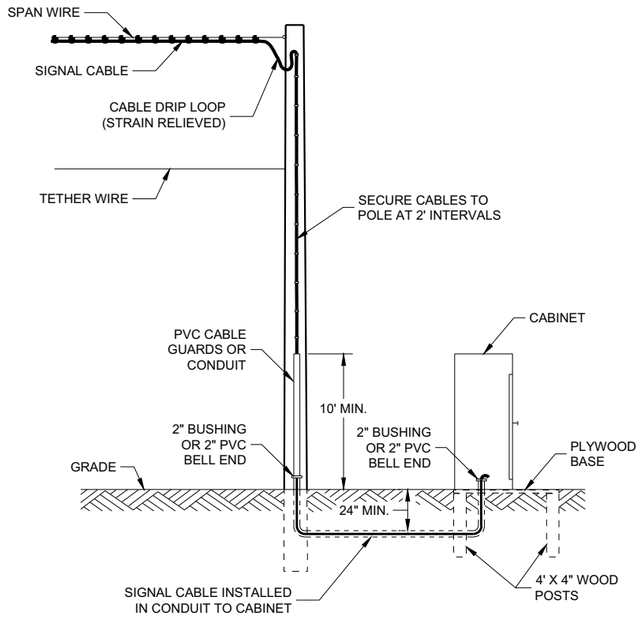
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

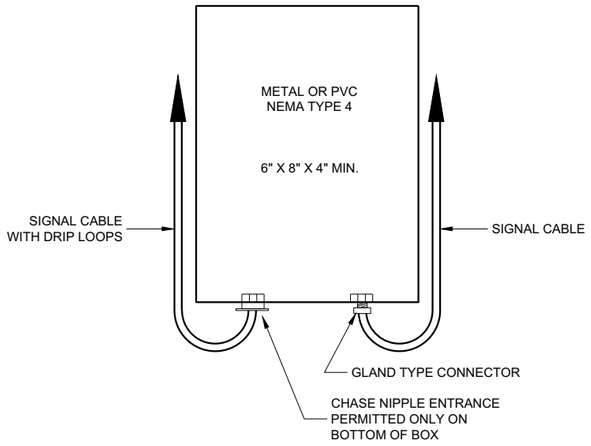
APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER

FHWA

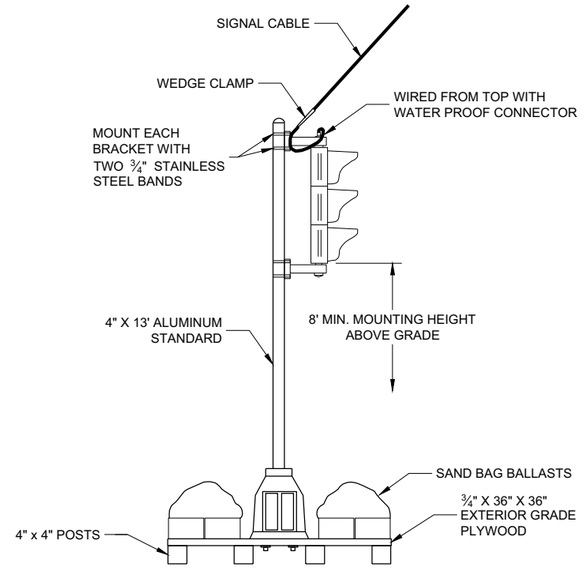
6

SDD 09G01 - 4f

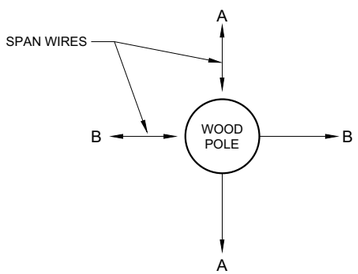




SPLICE BOX

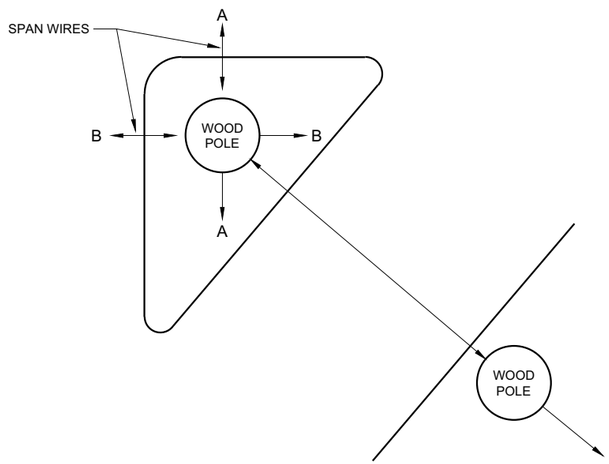


TYPICAL SKID TYPE TEMPORARY

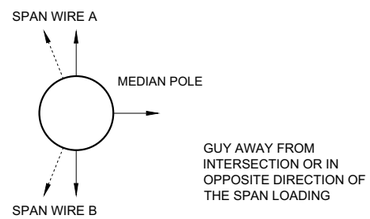


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF
THE SPAN LOADING

MEDIAN POLES

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

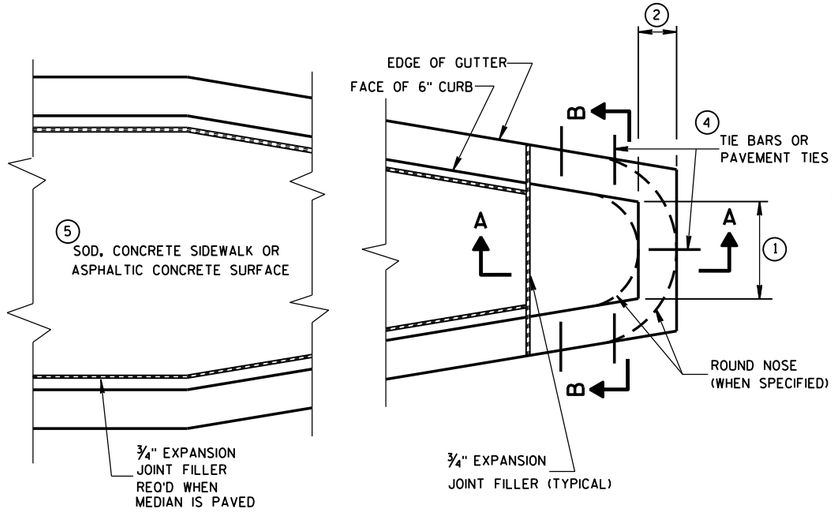
APPROVED
June 2015
DATE

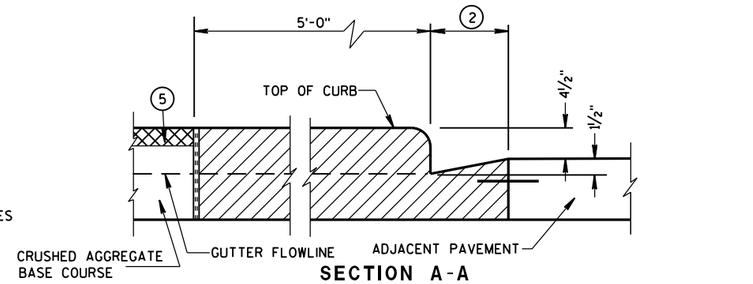
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

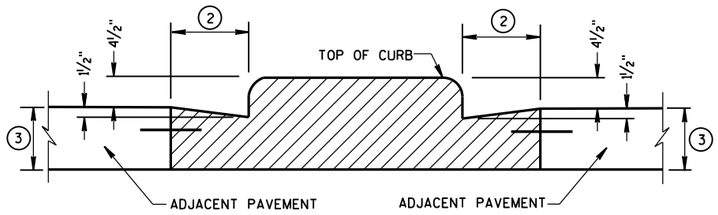
FHWA

6

SDD 09G01 - 4g







CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

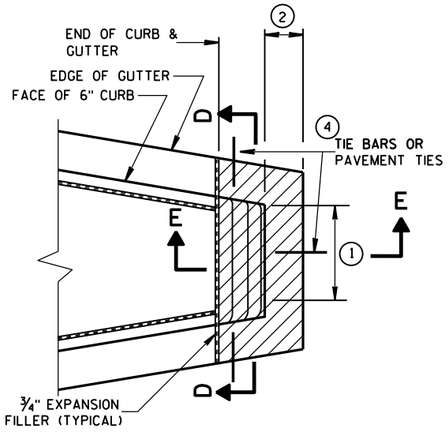
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

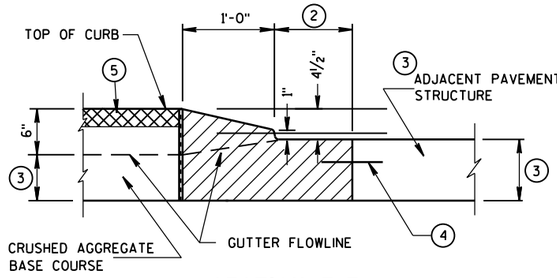
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

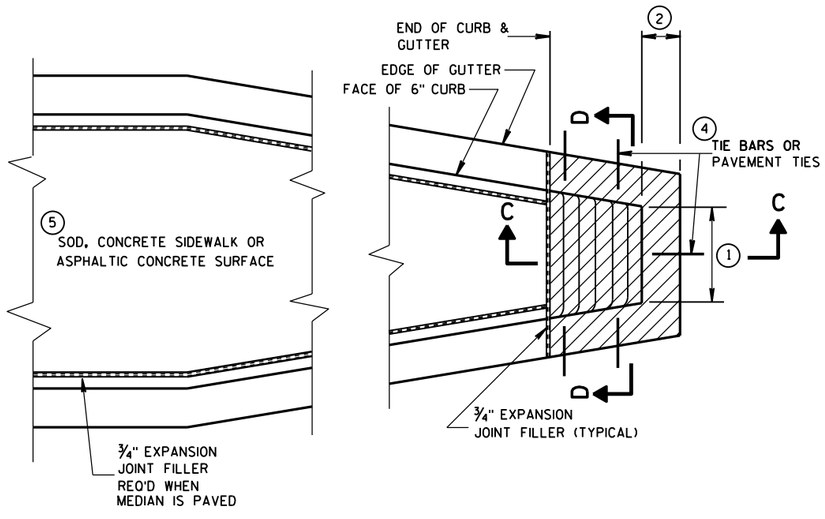
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

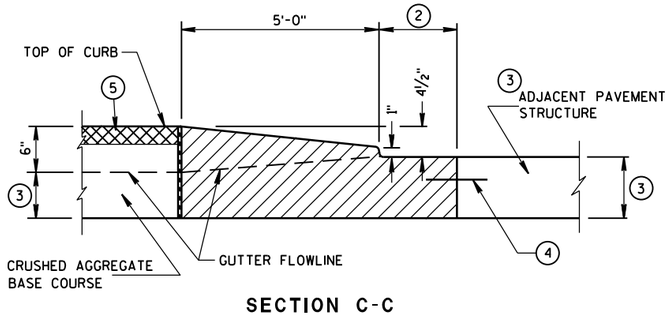
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



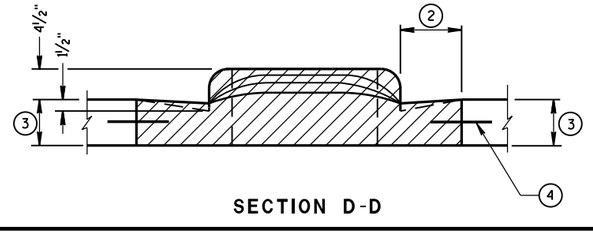


CONCRETE MEDIAN SLOPED NOSE TYPE 2





CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

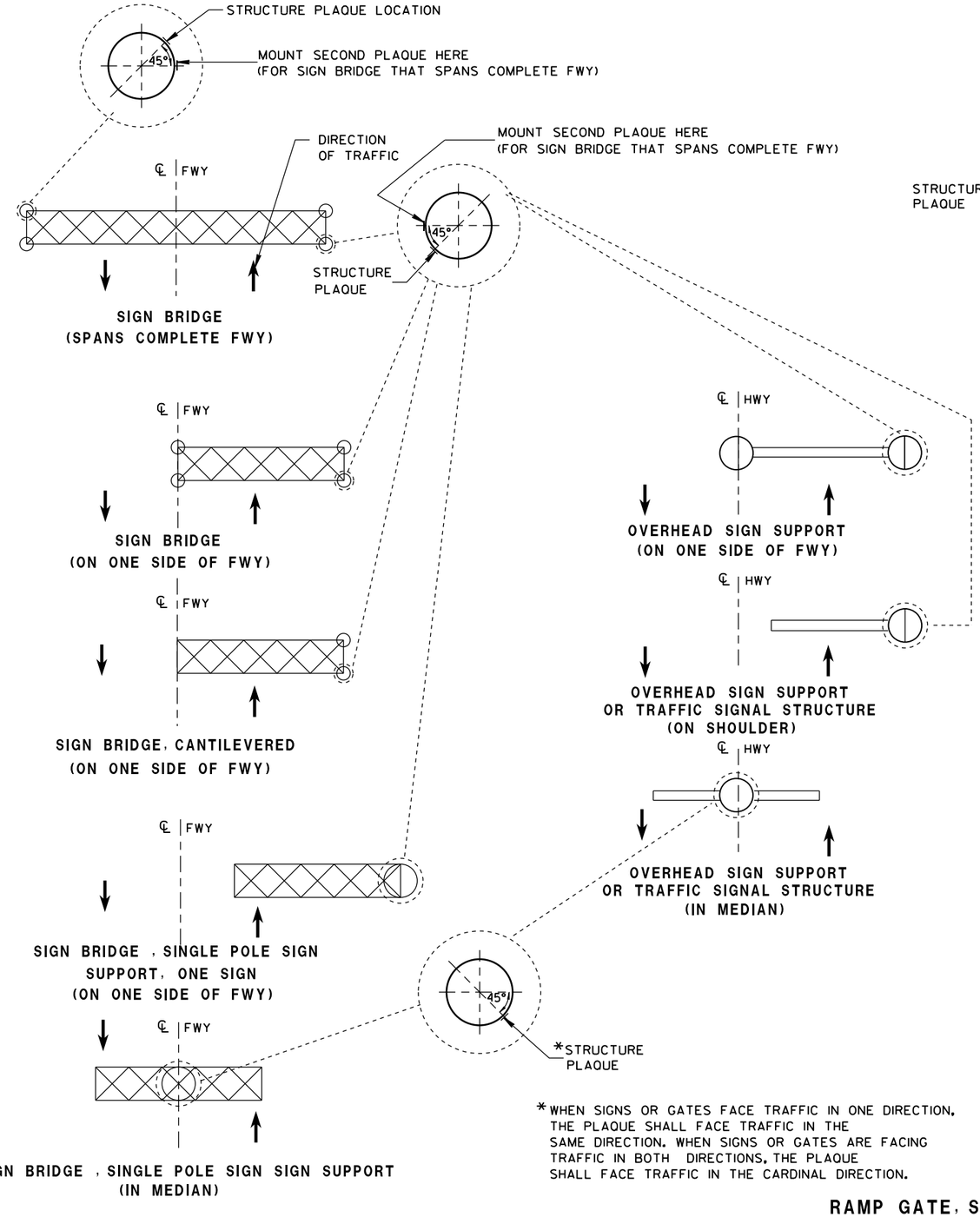
APPROVED
6/8/2006 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 11 B 2-2

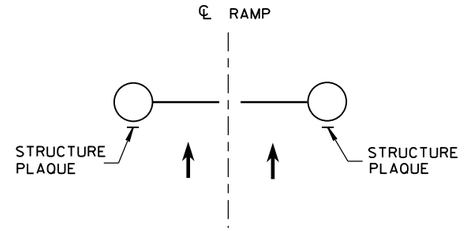
6

S.D.D. 11 B 2-2

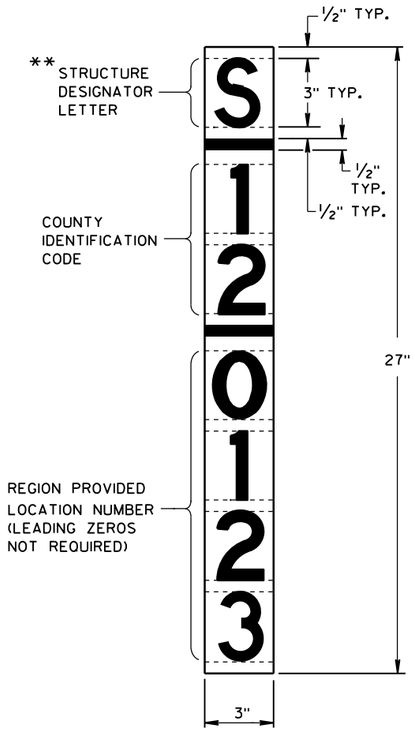


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



RAMP GATE
(ACROSS FWY ON-RAMP)



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

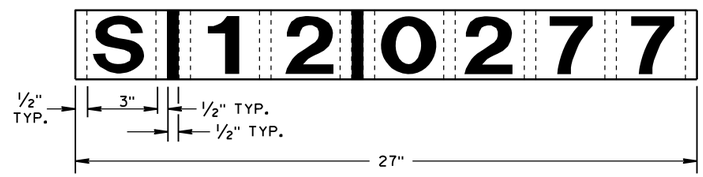
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

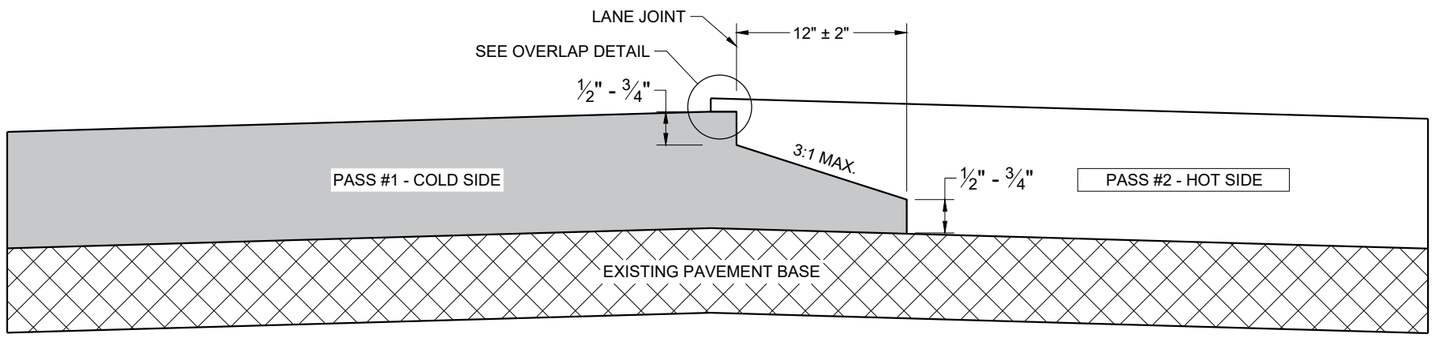
APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

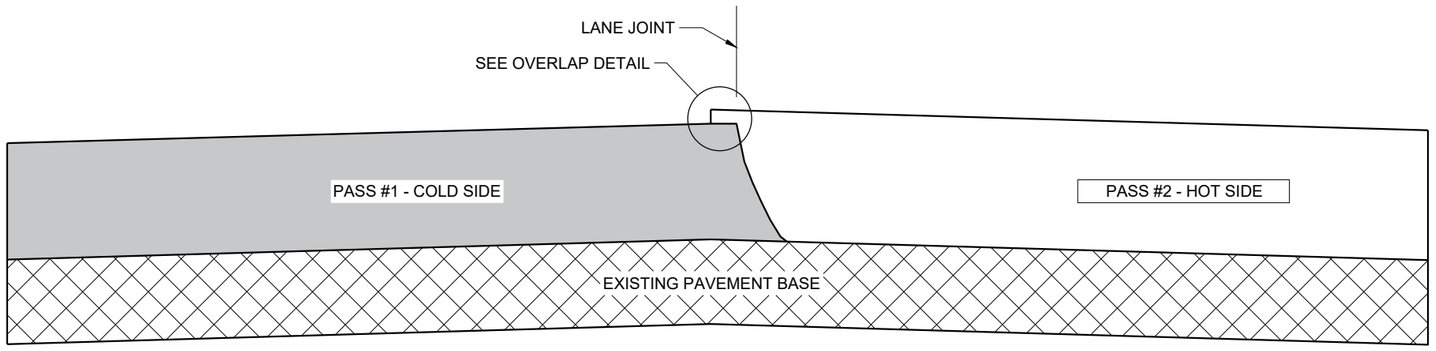
S.D.D. 12 A 4-3

6

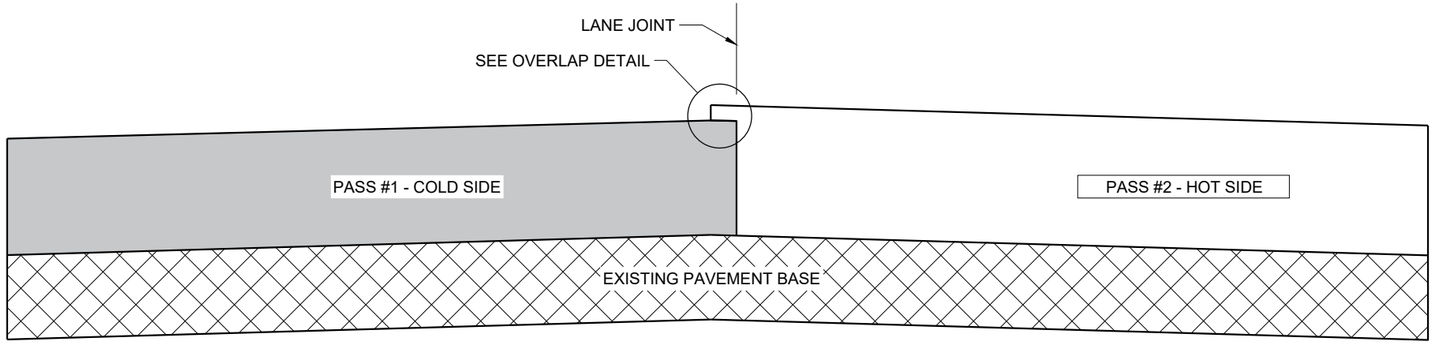
S.D.D. 12 A 4-3



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

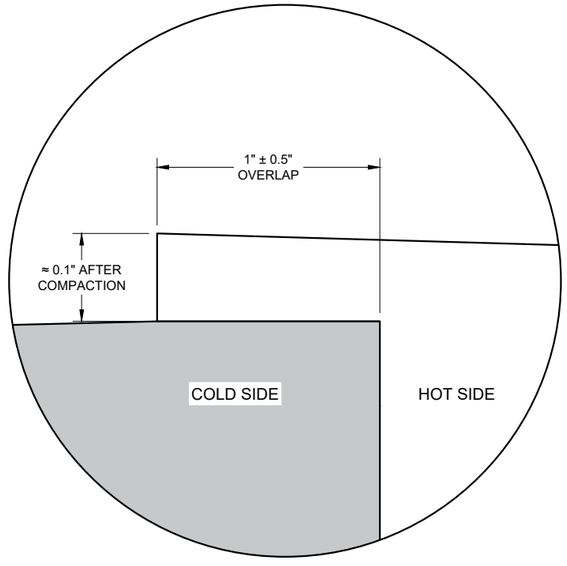
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

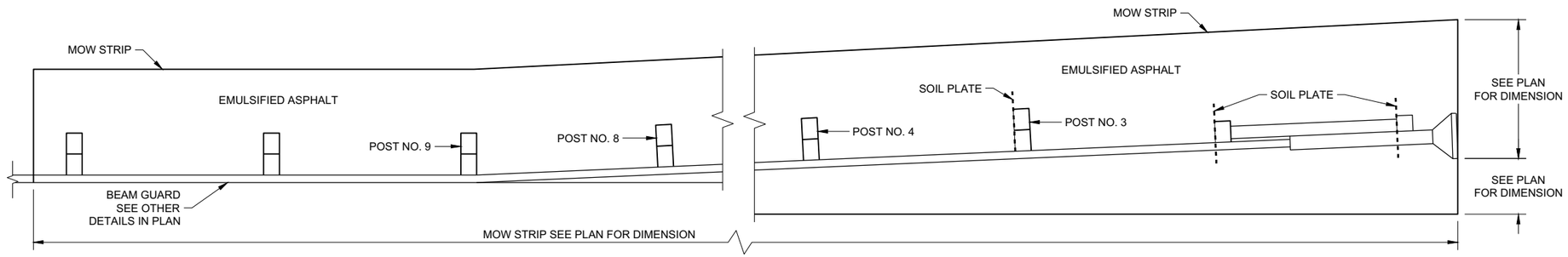
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



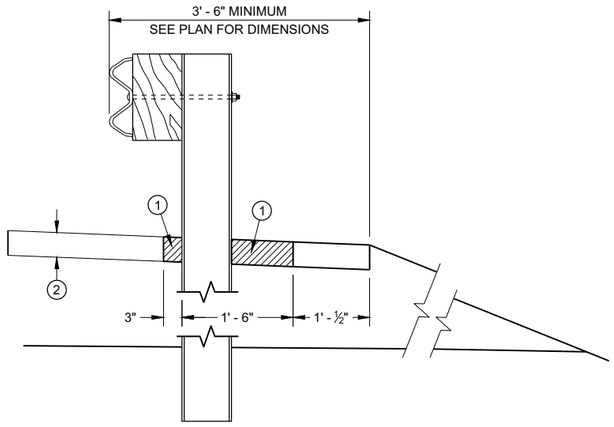
PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABSORBING TERMINAL

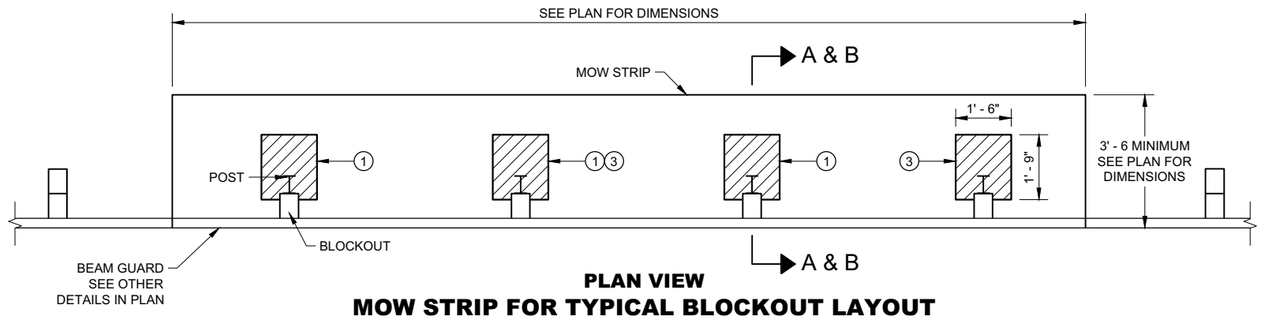
GENERAL NOTES

ONLY USE STEEL POSTS IN CONCRETE AND ASPHALT MOW STRIPS.

1. CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.
2. DEPTH OF MOW STRIP:
   ASPHALT - 4"
   CONCRETE - 4"
   EMULSIFIED ASPHALT - 1" OR LESS
3. FOR EMULSIFIED ASPHALT, MOW STRIP STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS)

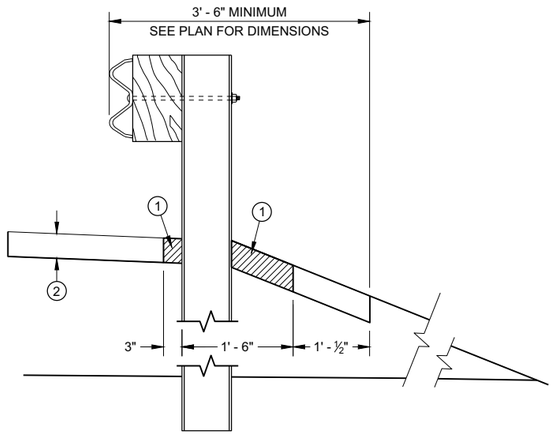


SECTION A - A

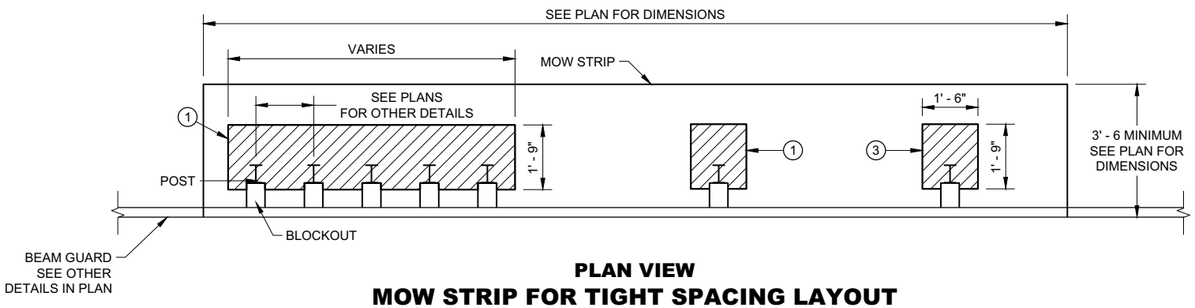


PLAN VIEW

MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT

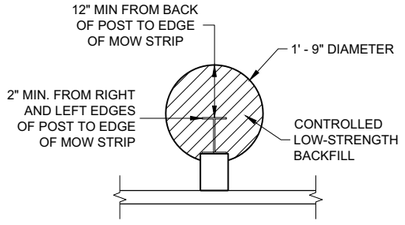


SECTION B - B

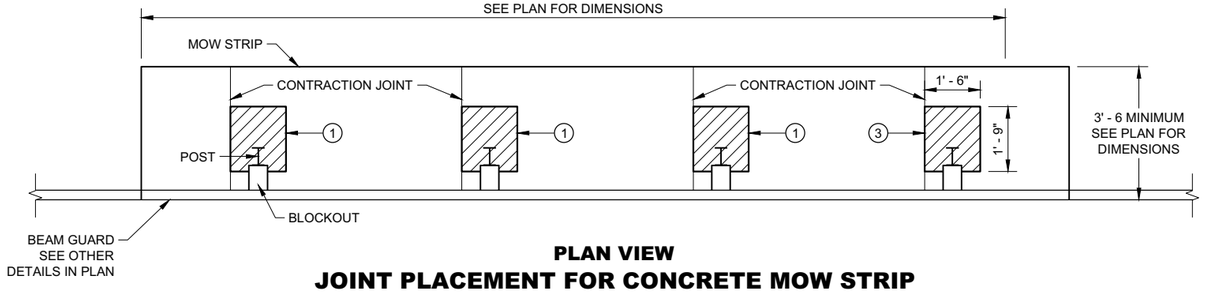


PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



ALTERNATIVE HMA MOW STRIP DESIGN



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B28 - 04a

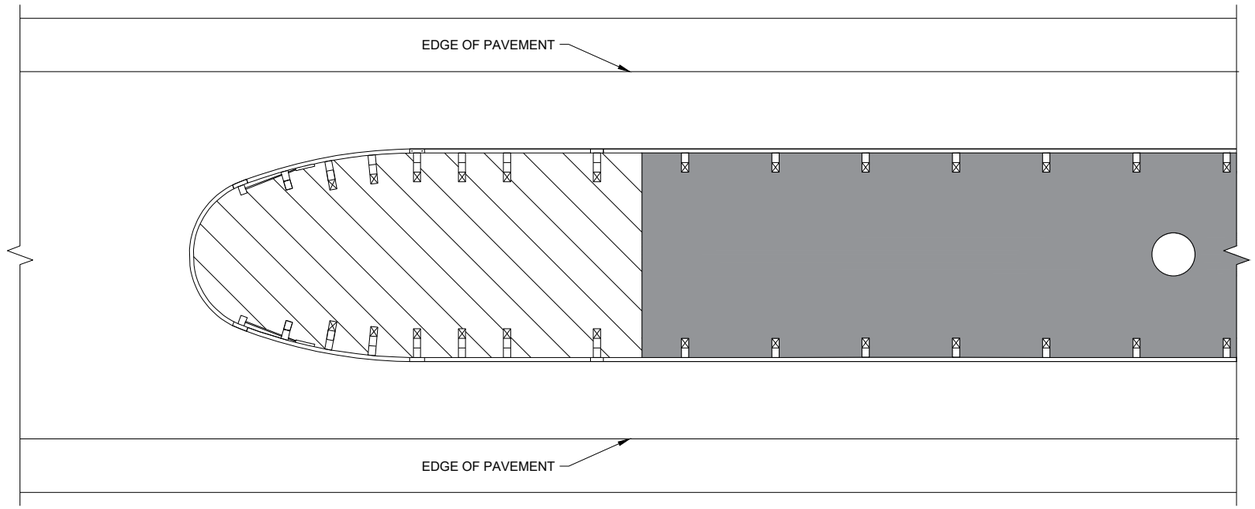
LEGEND

CONCRETE, ASPHALT, OR EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

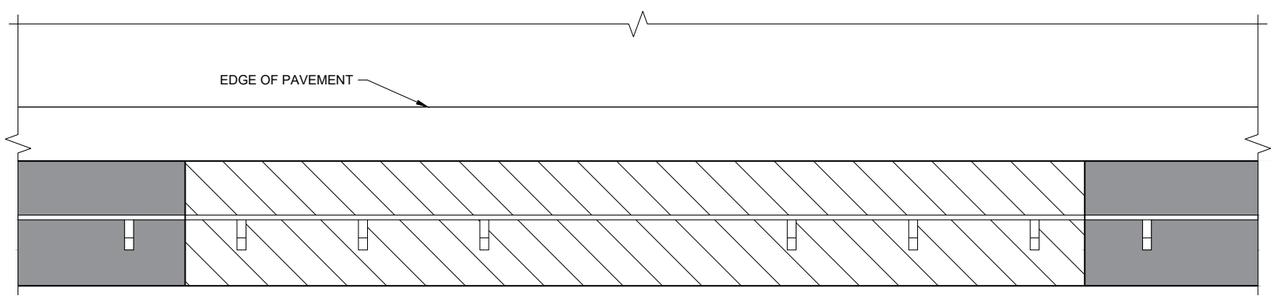
EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

GENERAL NOTES

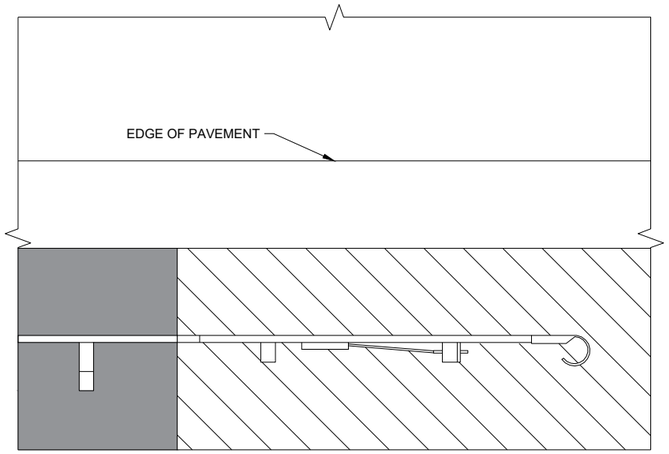
EXISTING THRIE BEAM BULLNOSES MAY HAVE WOOD POSTS. NEW THRIE BEAM BULLNOSE WILL HAVE STEEL POSTS.



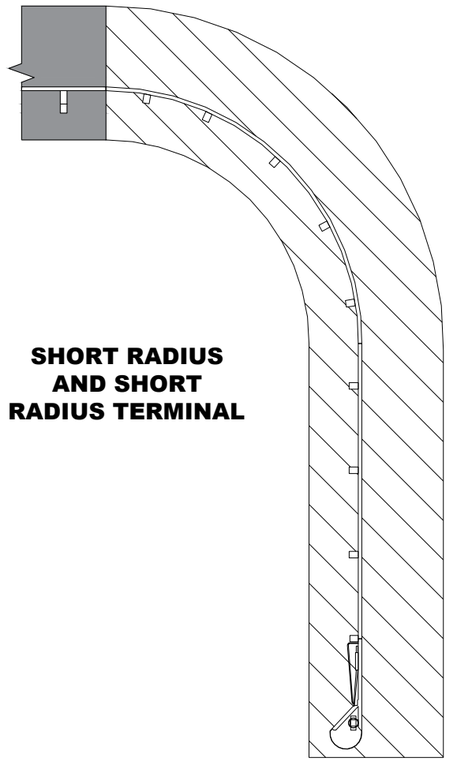
THRIE BEAM BULLNOSE



LONG - SPAN



TYPE 2 TERMINAL



SHORT RADIUS AND SHORT RADIUS TERMINAL

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
ENGINEER

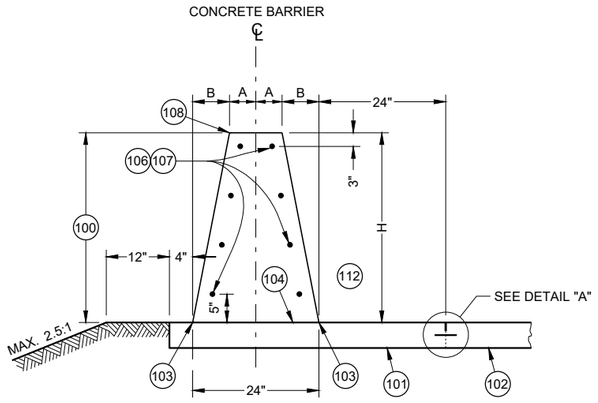
FHWA

6

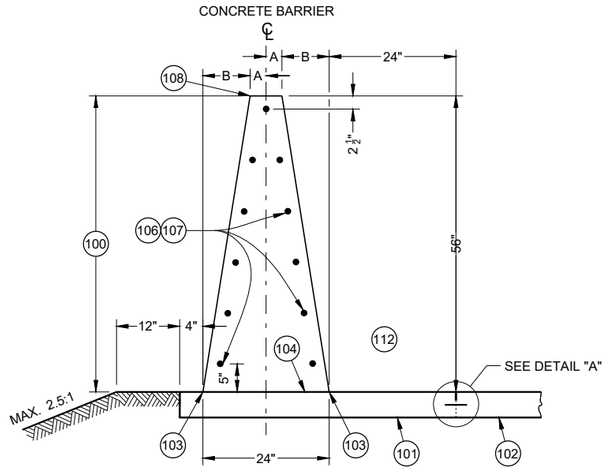
SDD 14B28 - 04b

6

SDD 14B28 - 04b



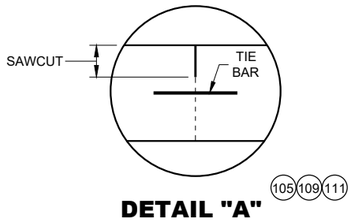
32 - INCH, 36 - INCH OR 42 - INCH SINGLE SLOPE CONCRETE BARRIER
(TYPE S32, TYPE S36, TYPE S42)



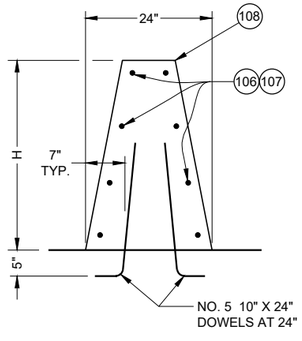
56 - INCH SINGLE SLOPE CONCRETE BARRIER
(TYPE S56)

TABLE "A"

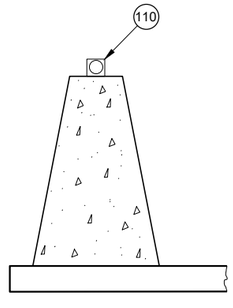
BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO. 5 BARS EACH
32	7	5	8
36	6 ¼	5 ¾	8
42	5 ¼	6 ¾	10
56	3	9	11



DETAIL "A"



SINGLE SLOPE CONCRETE BARRIER ON BRIDGE
(NON OUTER PARAPET APPLICATION)



DELINEATION

GENERAL NOTES

WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.

LOCATE EXPANSION JOINTS IN CONCRETE BARRIER SHALL AT ALL DECK AND PRINCIPAL WALL JOINTS. FILL EXPANSION JOINT WITH EXPANSION JOINT MATERIAL. SEAL THE EXPANSION JOINT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATION 501.

2" CLEAR COVER TYPICAL

ANCHORS ARE REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER. ANCHOR MAY BE AS SHOWN IN THIS SDD OR DETAIL SHOWN ON SDD 14B33. ANCHORS INCIDENTAL TO CBSS.

PROVIDE A 1" DEEP CONTRACTION JOINT IN BARRIER PAD AND BARRIER. JOINT IS TO MATCH ADJACENT CONCRETE JOINTS. NO DOWEL BARS ARE REQUIRED FOR BARRIER PAD. IF ADJACENT TO ASPHALT, CONTRACTION JOINT IS REQUIRED EVERY 15'.

ALL REBAR SHALL BE EPOXY COATED M31 TYPE S. SEE STANDARD SPECIFICATION 505.

CONCRETE BARRIER, UPPER CONCRETE BARRIER, LOWER CONCRETE BARRIER, CONCRETE BARRIER PAD, AND FOOTINGS ARE TERMS USED TO DESCRIBE PARTS OF SINGLE SLOPE CONCRETE BARRIER BID ITEMS. THESE PARTS ARE INCIDENTAL TO THE SINGLE SLOPE CONCRETE BARRIER BID ITEMS.

(100) CONCRETE BARRIER

(101) CONCRETE BARRIER PAD

(102) PAVEMENT

(103) WHERE VERTICAL ROADWAY OFFSET IS GREATER THAN 1 ½", USE TYPE A SINGLE SLOPE BARRIER.

(104) OPTIONAL CONSTRUCTION JOINT.

(105) CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAT 10'.

(106) STAGGER LAPPING OF LONGITUDINAL STEEL. MINIMUM OVERLAP OF STEEL IS 2' BARS AT LAPS TO BE FIRMLY TIED OR CONNECTED.

(107) NO. 5 CONTINUOUS BARS EVENLY SPACED (SEE TABLE "A").

(108) USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

(109) CONCRETE BARRIER PAD UNDER CBSS MAY BE PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED ⅓ DEPTH. CONCRETE BARRIER PAD AND SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE BARRIER PAD MINIMUM DEPTH IS 6", OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.

(110) SEE SDD 15A04 FOR DELINEATOR DETAILS AND SPACING.

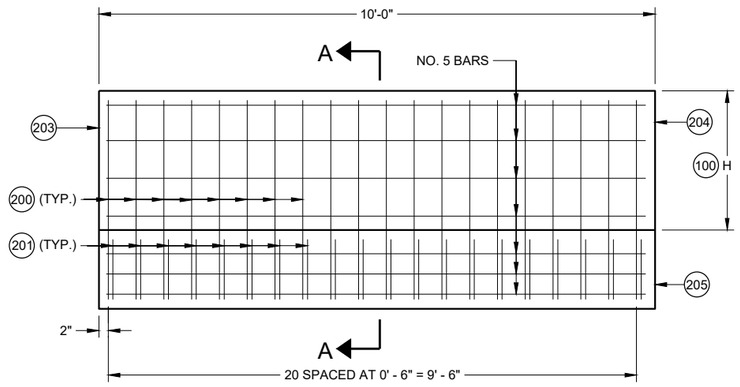
(111) SEE SDD 13C01 FOR DETAILS TYPING CONCRETE BARRIER TO ADJACENT CONCRETE

(112) TRAFFIC SIDE

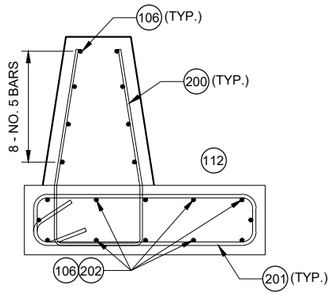
CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

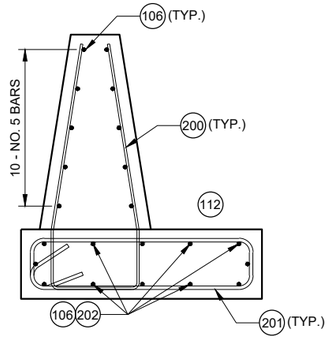
6
SDD 14B32 - 10a



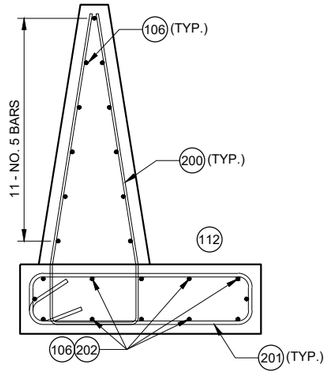
END ANCHOR SINGLE SLOPE CONCRETE BARRIER



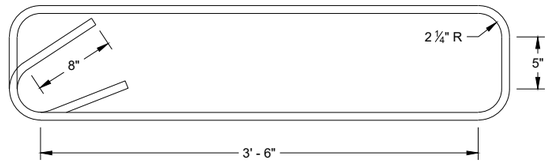
32" AND 36" CBSS



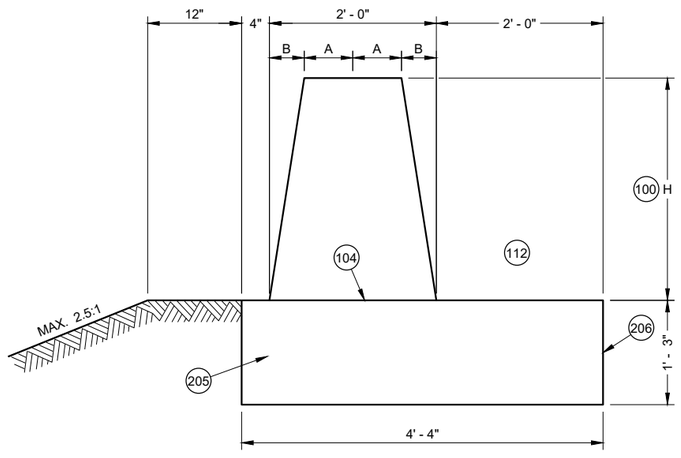
42" CBSS



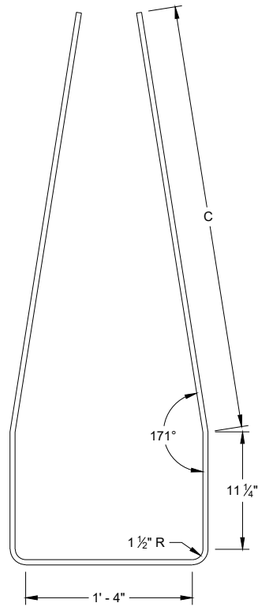
56" CBSS



STIRRUP BAR BENDING DETAIL



SECTION A - A



V1 BAR BENDING DETAIL

TABLE "B"

BARRIER HEIGHT H INCHES	C INCHES
32	2' - 6"
36	2' - 11"
42	3' - 4"
56	4' - 6 ½"

GENERAL NOTES

200 V1 BARS ARE NO. 5 BARS. (SEE BAR BENDING DETAIL)

201 STIRRUPS ARE NO. 6 BARS. (SEE BAR BENDING DETAIL)

202 TWELVE (12) NO. 5 BARS EVENLY SPACED

203 END OF INSTALLATION OR EXPANSION JOINT.

204 SEE COLD JOINT DETAIL TO CONNECT END ANCHOR SINGLE SLOPE CONCRETE BARRIER TO SINGLE SLOPE CONCRETE BARRIER.

205 FOOTING

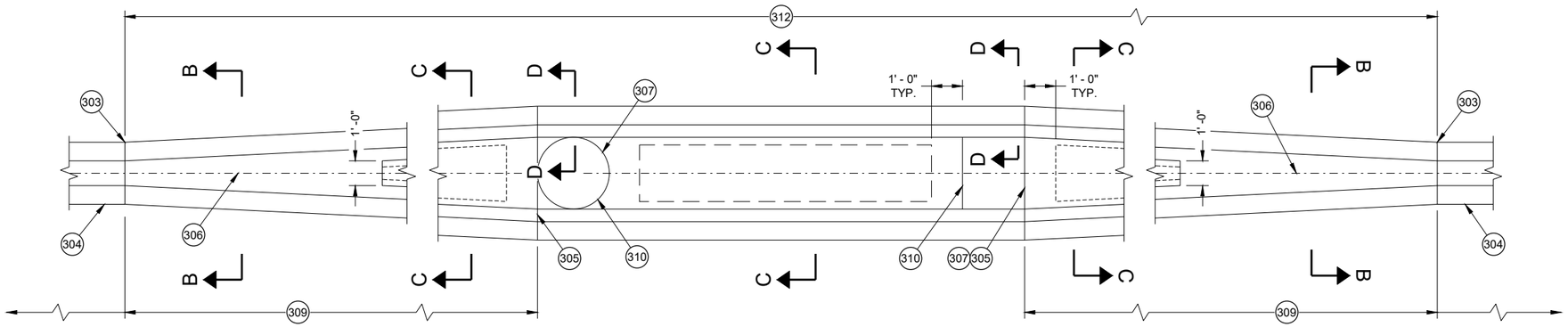
206 DO NOT TIE TO FOOTING TO ADJACENT PAVEMENT.

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

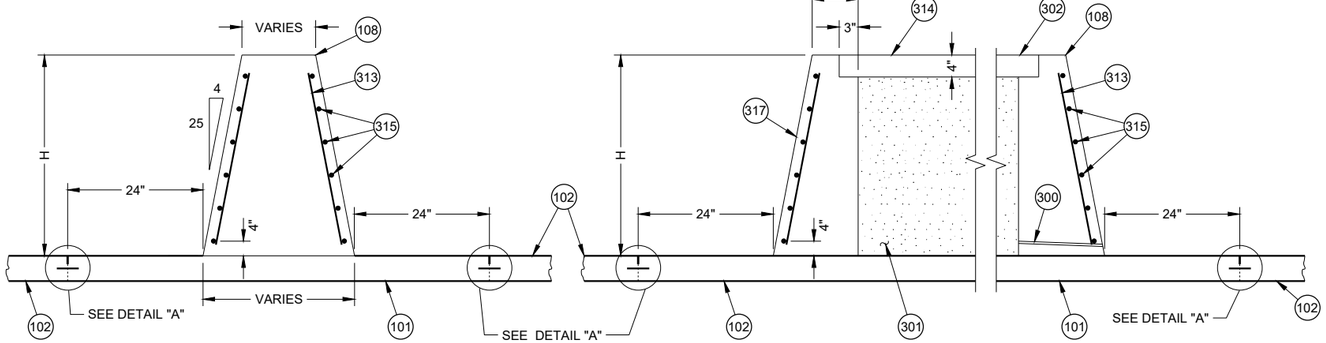
SDD 14B32 - 10b



LARGE FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)

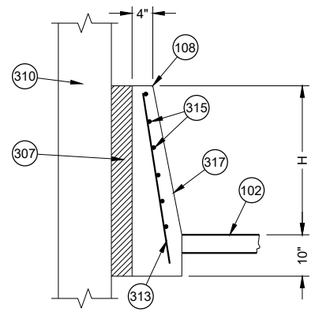
TABLE "C"

BARRIER HEIGHT H INCHES	BAR SIZE	NUMBER OF BARS EACH
32	4	6
36	4	6
42	5	6
56	5	6

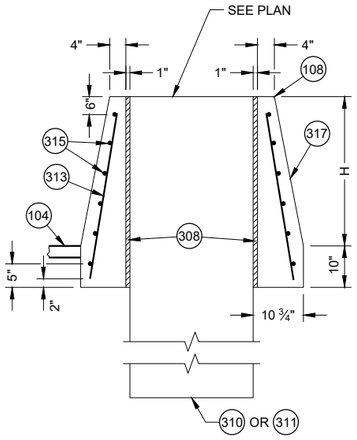


SECTION B - B

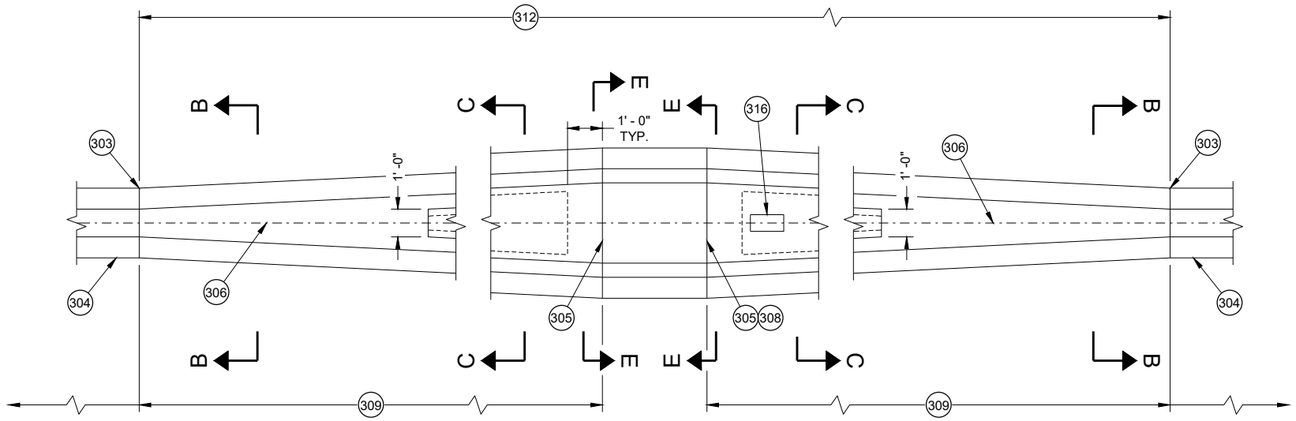
SECTION C - C



SECTION D - D



SECTION E - E



SMALL FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)

GENERAL NOTES

(300) INSTALL 1 INCH DIAMETER DRAIN PIPE EVERY 20 FEET OF CROSS SECTION B -B. MINIMUM ONE DRAIN CAVITY.

(301) BETWEEN CONCRETE BARRIER WALLS FILL WITH FOUNDATION BACKFILL.

(302) LEVEL THE TOP OF CONCRETE BARRIER CAP ACROSS TOP OF BARRIER. ADJUST HEIGHT OF CONCRETE BARRIER WALL ON LOW SIDE OF OFFSET OR SUPERELEVATED ROADWAYS TO PROVIDE LEVEL GRADE ACROSS TOP OF CONCRETE CAP.

(303) USE COLD JOINTS BETWEEN FIXED OBJECT PROTECTION AND CONCRETE BARRIER ANCHOR.

(304) INSTALL END ANCHOR SINGLE SLOPE CONCRETE BARRIER.

(305) SEE COLD JOINT DETAIL

(306) CENTERLINE OF CONCRETE BARRIER.

(307) INSTALL 4" EXPANDED POLYSTYRENE BETWEEN COLUMN AND CONCRETE BARRIER.

(308) INSTALL 1" EXPANDED POLYSTYRENE BETWEEN PEDESTAL AND CONCRETE BARRIER.

(309) 20:1 MIN. TRANSITION.

(310) COLUMN

(311) PEDESTAL

(312) LIMITS OF PAYMENT FOR LARGE FIXED OBJECT PROTECTION (SEE PLAN)

(313) NO. 4 BARS SPACED 12" CENTER TO CENTER (TYP.)

(314) USE NO. 3 BAR SPACED 12 INCHES CENTER TO CENTER (PLACED IN EACH DIRECTION) OR EQUIVALENT WIRE MESH.

(315) SEE TABLE "C" FOR BAR INFORMATION

(316) ELECTRICAL PULL BOX FOR SIGN FLUSH WITH TOP OF CONCRETE BARRIER.

(317) VARIABLE SLOPE

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B32 - 10c

GENERAL NOTES

400 END ANCHOR SINGLE SLOPE CONCRETE BARRIER.

401 PARAPET, SIGN BRIDGE BASE, LIGHT POLE BASE OR OTHER OBJECT SINGLE SLOPE CONCRETE BARRIER CANNOT TIE INTO.

402 JOINT SEAL CONFORMING TO STANDARD SPECIFICATION 415.2.6

403 EXPANSION JOINT MATERIAL.

404 INLET (SEE PLAN)

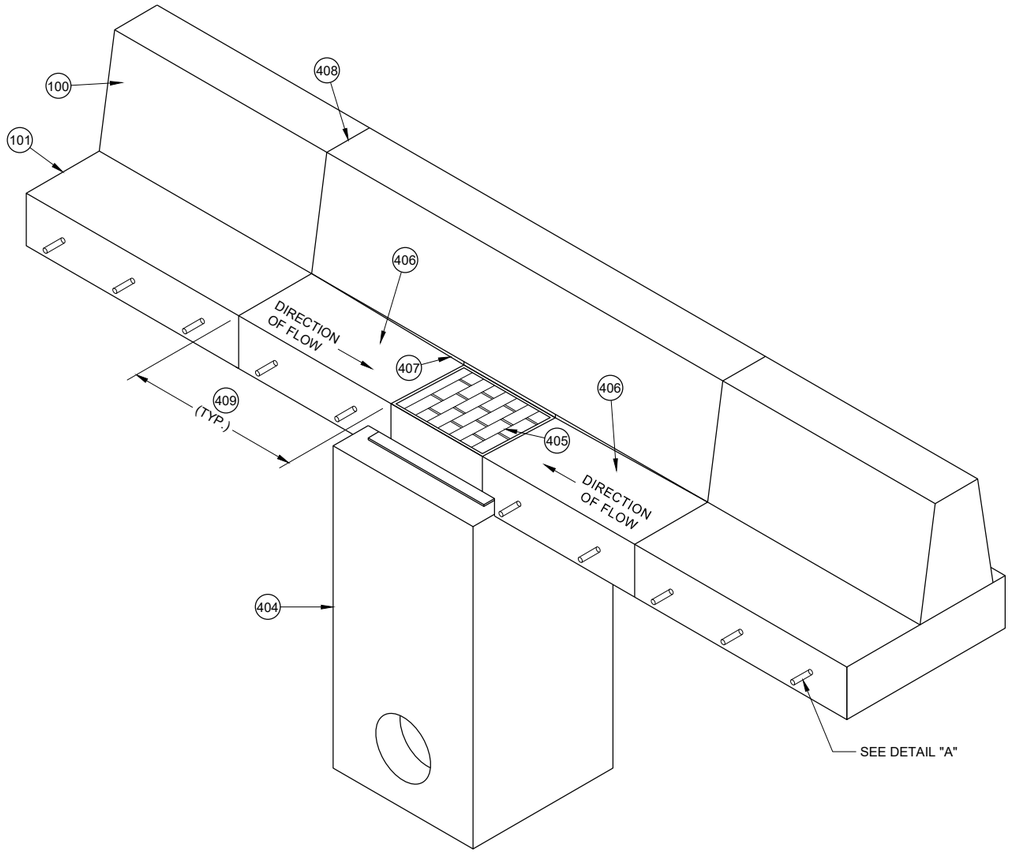
405 INLET COVER BW (SEE PLAN)

406 WARP PAN TO MATCH INLET COVER.

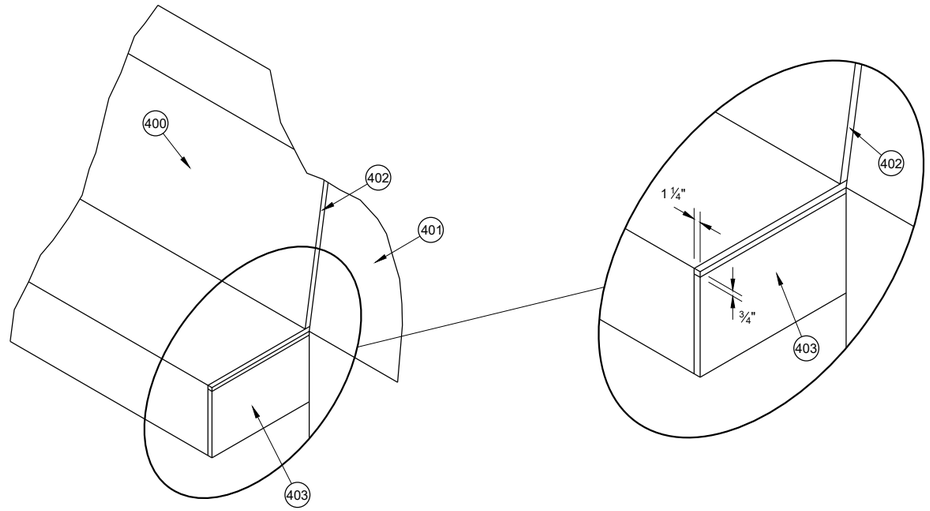
407 EXTEND BARRIER SLOPE TO INLET. SEE PLAN FOR THE LENGTH OF EXTENSION.

408 CONTRACTION JOINT.

409 3' (TYP.)



DRAINAGE DETAIL



EXPANSION JOINT DETAIL

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B32 - 10d

GENERAL NOTES

USE COLD JOINT TO CONNECT MULTIPLE HEIGHT TRANSITIONS.

(500) SEE TABLE "A" FOR DIMENSIONS

(501) SEE TABLE "D"

(502) MULTIPLE HEIGHT TRANSITION MAY BE USED IN SEQUENCE TO GET APPROPRIATE HEIGHT.

(503) COLD JOINT

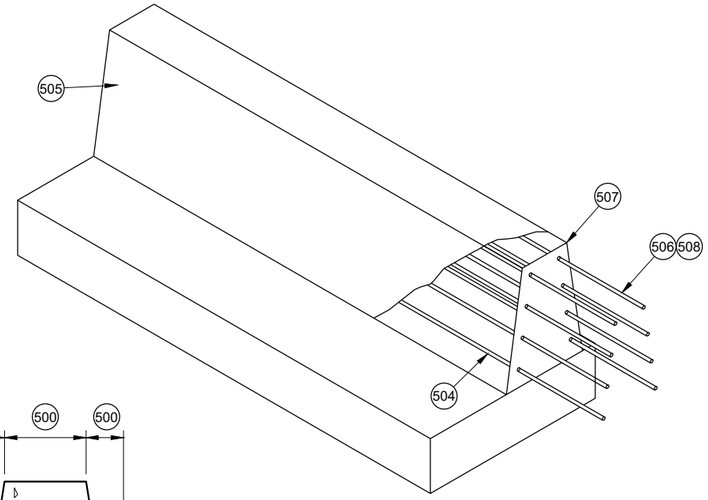
(504) BARRIER REBAR (SEE OTHER DETAILS FOR BAR SIZE, QUANTITY AND LOCATION).

(505) SINGLE SLOPE BARRIER SHOWN. SIMILAR DETAIL CAN BE USED FOR COLD JOINT IN END ANCHORS AND TRANSITIONS.

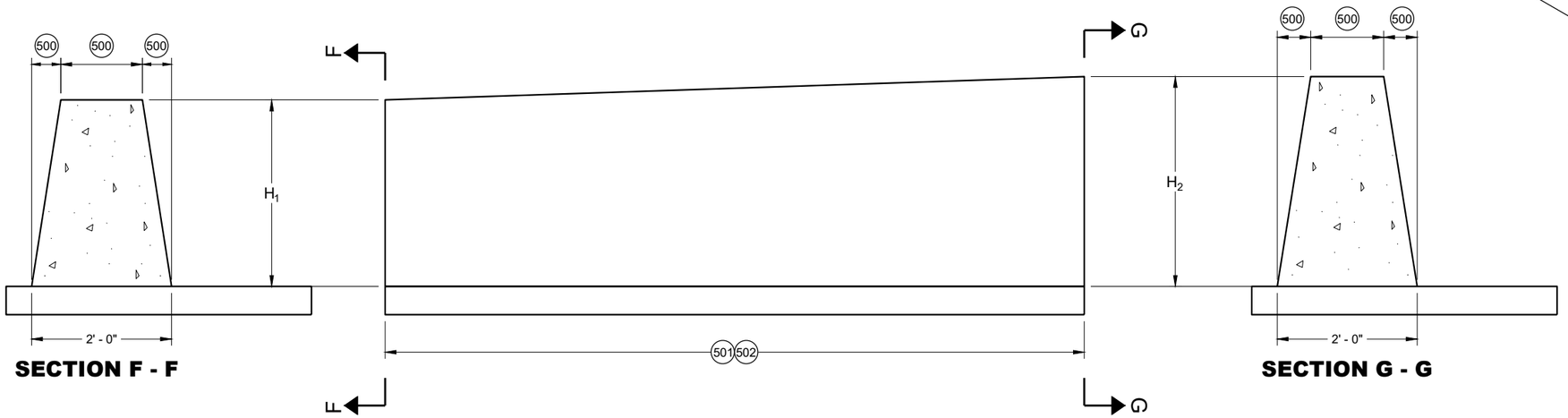
(506) NO. 5 REBAR FOR SPLICE. 3' OF SPLICE REBAR IS LAPPED AND TIED TO BARRIER REBAR. EXTEND 3' OF SPLICE REBAR BEYOND END OF POUR. ALL BARS ARE FIRMLY TIED OR CONNECTED. EVERY REBAR IN THE BARRIER SECTION REQUIRES A SPLICE BAR.

(507) END OF POUR.

(508) LAP AND TIE 3' OF NEXT POUR'S REBAR TO SPLICE REBAR.



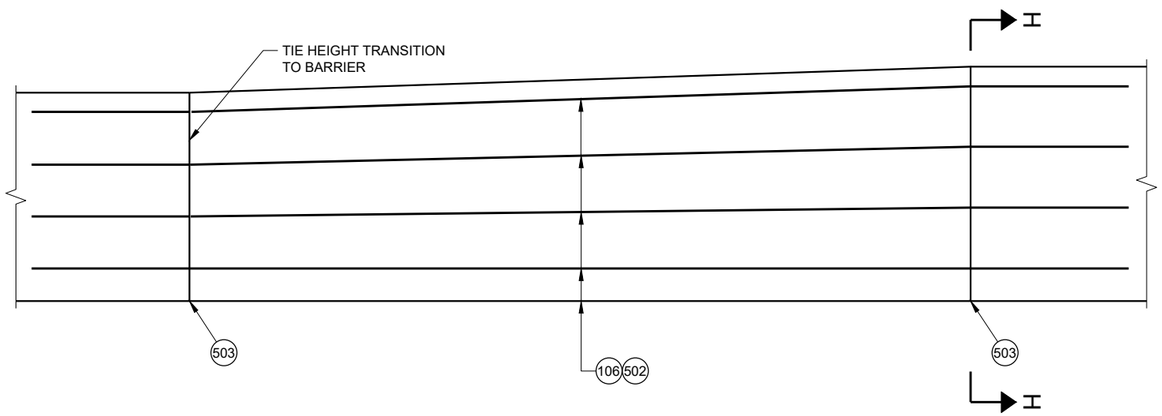
COLD JOINT DETAIL



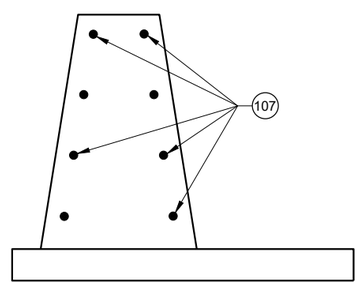
DOUBLE COLD JOINT HEIGHT TRANSITION

TABLE "D"

H_1	H_2	L	NUMBER OF NO. 5 BARS
32"	36"	10' - 0"	8
36"	42"	10' - 6"	10
42"	56"	24' - 6"	11



STEEL REINFORCEMENT DETAIL

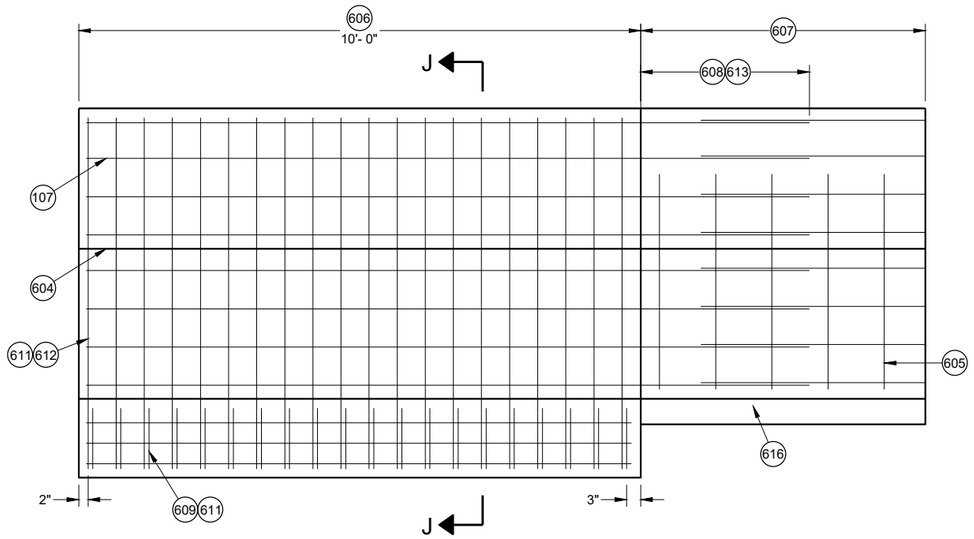


CONCRETE BARRIER SINGLE SLOPE (CBSS)

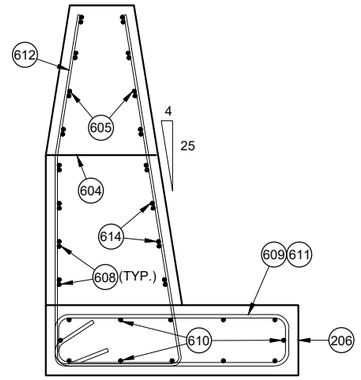
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B32 - 10e

SDD 14B32 - 10e



END ANCHOR MEDIAN BARRIER AND RETAINING WALL



SECTION J - J
END ANCHOR AND MEDIAN WALL END ANCHOR REINFORCEMENT DETAIL

GENERAL NOTES

600 UPPER CONCRETE BARRIER

601 LOWER CONCRETE BARRIER

602 MAX HEIGHT 36".

603 VERTICAL OFFSET FROM TOP ROADWAY SURFACES

604 OPTIONAL CONSTRUCTION JOINT WHEN HEIGHT IS GREATER THAN 1 ½".

605 NO. 4 BARRIER LOOP BARS ARE NOT REQUIRED FOR ROADWAY OFFSETS ARE LESS THAN 1'- 0", EXCEPT WHEN USED IN ANCHORS. BARRIER LOOP BARS ARE SPACED 12" CENTER TO CENTER OUTSIDE OF MEDIAN BARRIER AND RETAINING WALL END ANCHOR.

606 SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL ANCHOR

607 SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL (SEE OTHER DETAILS)

608 NO. 5 REBAR 3' OF LAP OF LONGITUDINAL STEEL.

609 NO. 6 REBAR END ANCHOR FOOTING LOOP

610 TWELVE (12) NO. 5 BARS EVENLY SPACED.

611 SS ANCHOR END LOOP AND END ANCHOR FOOTING LOOP ARE SPACED 6" CENTER TO CENTER.

612 END ANCHOR LOOP BAR IS NO. 5 REBAR.

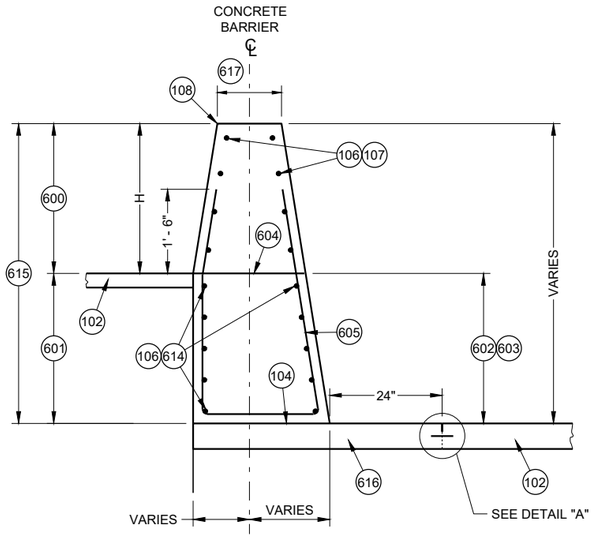
613 SEE COLD JOINT DETAIL.

614 SEE TABLE "E" FOR REQUIRED REBAR

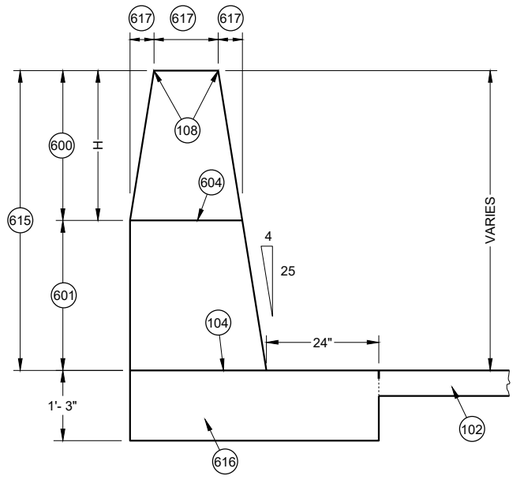
615 TOTAL BARRIER HEIGHT (SEE PLAN FOR HEIGHT)

616 FOR SOME LOCATIONS, NO PAN IS NEEDED. SEE OTHER DETAILS.

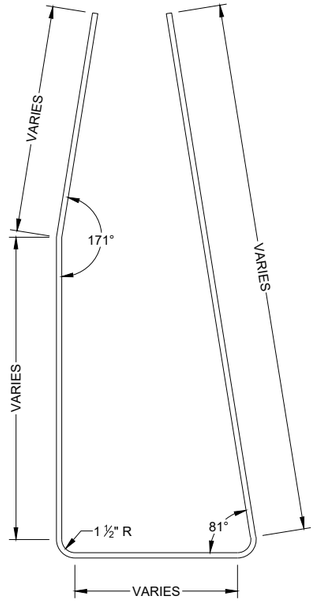
617 SEE TABLE "A" FOR DIMENSIONS



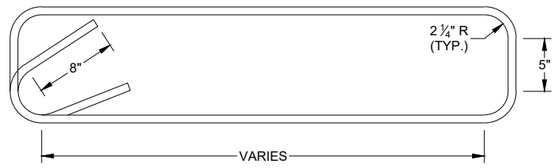
SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)
(BETWEEN ADJACENT ROADWAYS)



SECTION J - J
MEDIAN BARRIER AND RETAINING WALL END ANCHOR DIMENSIONS



LOOP BAR BENDING DETAIL



END ANCHOR STIRRUP BAR BENDING DETAIL

TABLE "E"

HEIGHT BETWEEN ROADWAY	QUANTITY OF NO. 6 BARS
0 TO 3"	0
GREATER THAN 3" TO 8"	2
GREATER THAN 8" TO 12"	4
GREATER THAN 12" TO 36"	8

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B32 - 10f

6

SDD 14B32 - 10f

GENERAL NOTES

700 END ANCHOR SINGLE SLOPE CONCRETE BARRIER

701 SEE EXPANSION JOINT DETAIL

702 END ANCHOR SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL

703 PAY LIMIT FOR SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL

704 SEE COLD JOINT DETAIL

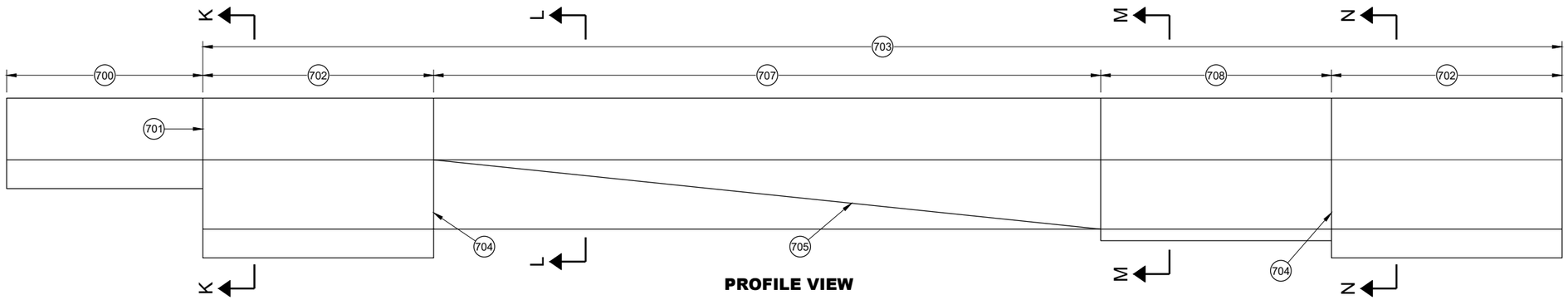
705 LOW SIDE SHOULDER

706 HIGH SIDE SHOULDER

707 SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL INSTALLED WITHOUT A PAN.

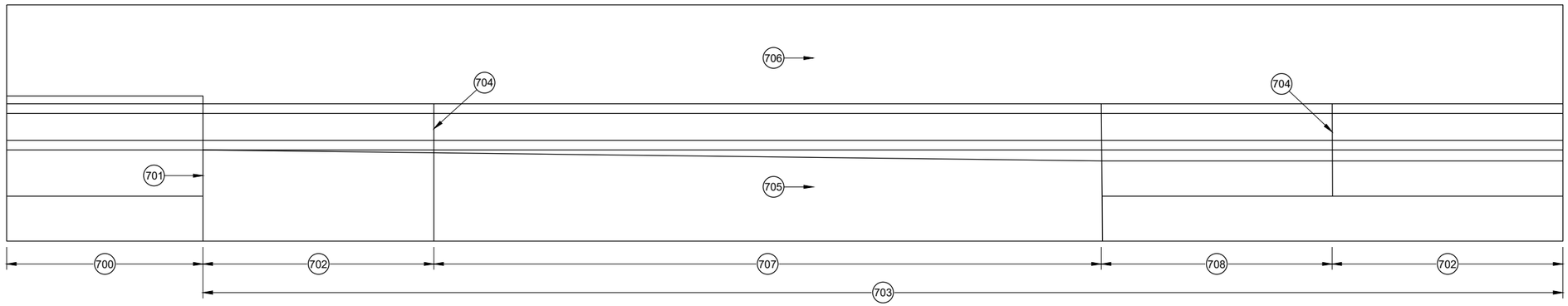
708 SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL INSTALLED WITH A PAN.

709 EXCAVATION AND COMPACTION



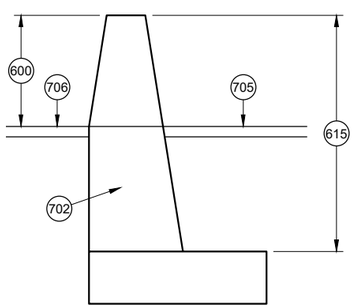
PROFILE VIEW

SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL

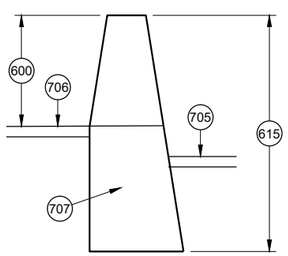


PLAN VIEW

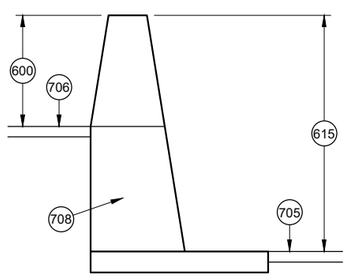
SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL



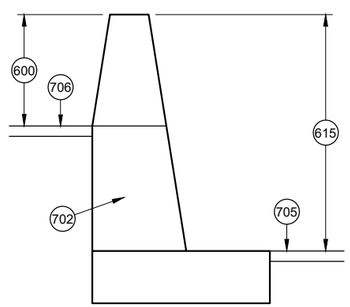
SECTION K - K



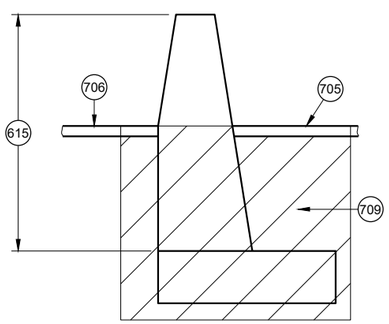
SECTION L - L



SECTION M - M



SECTION N - N

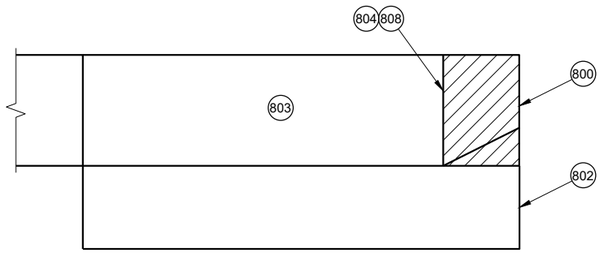


CONCRETE BARRIER
SINGLE SLOPE (CBSS)

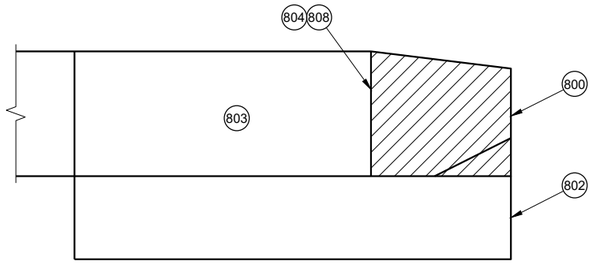
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

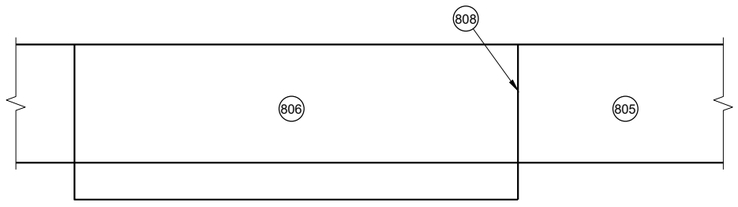
SDD 14B32 - 10g



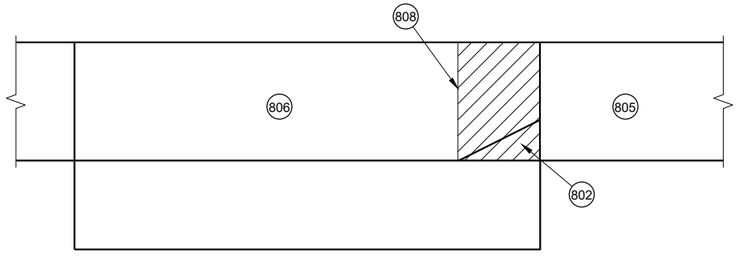
REMOVAL AREA OF
32" CONCRETE THRIE BEAM ANCHORAGE



REMOVAL AREA OF CONCRETE THRIE BEAM ANCHORAGE WITH HEIGHT GREATER THAN 32"



CONCRETE BARRIER EXTENSION NEAR END ANCHORAGE



CONCRETE BARRIER EXTENSION NEAR THRIE BEAM TERMINAL

GENERAL NOTES

END ANCHORAGE MAY OR MAY NOT BE PRESENT ON EXISTING BARRIER.

REMOVE THRIE BEAM ANCHORAGE AS SHOWN.

(800) AREA OF BARRIER REMOVAL AN NEW CONCRETE AND STEEL IS INSTALLED.

(801) MINIMUM LENGTH OF REMOVAL IS 15'

(802) FOOTING BELOW GROUND MAY REMAIN IN PLACE.

(803) CONCRETE BARRIER SINGLE SLOPE THRIE BEAM ANCHOR TO REMAIN.

(804) SAW CUT

(805) NEW SINGLE SLOPE CONCRETE BARRIER.

(806) CONCRETE BARRIE SINGLE SLOPE TO REMAIN.

(807) SINGLE SLOPE CONCRETE BARRIER OR CONCRETE BARRIER SINGLE SLOPE THRIE BEAM ANCHOR TO REMAIN.

(808) SEE CONNECTION DETAIL.

(809) NO. 5 CONTINUOUS BAR.

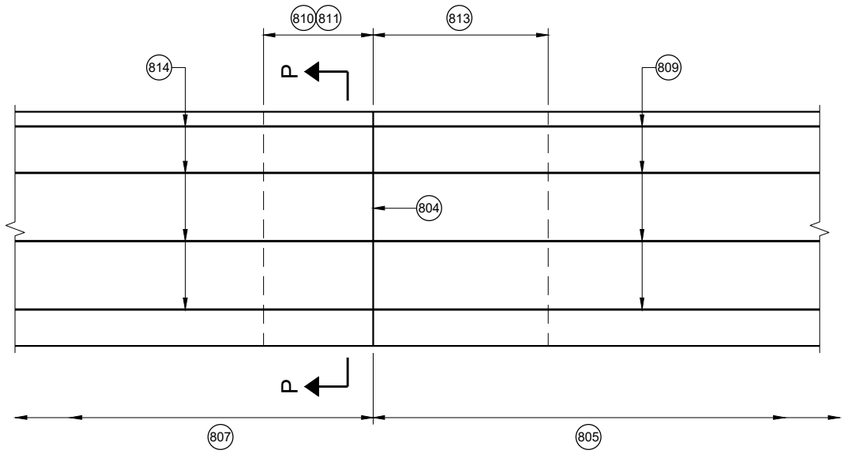
(810) 3' MIN. DRILL HOLES. USES NO. 5 ADHESIVE ANCHORS.

(811) THE NUMBER OF DRILL HOLES IS EQUAL TO THE NUMBER OF HORIZONTAL REBAR IN BARRIER. DRILL HOLES ARE TO BE A MINIMUM OF 4" FROM EDGE OF CONCRETE.

(812) EXISTING REBAR IN EXISTING BARRIER OR END ANCHOR.

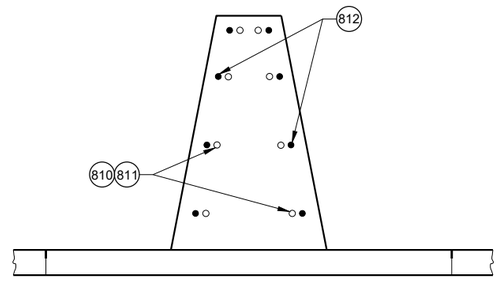
(813) 3' BAR OVERLAP

(814) EXISTING REINFORCEMENT

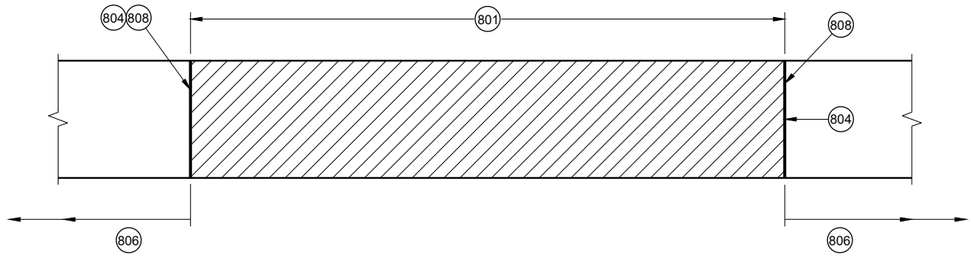


CONNECTION DETAIL

SINGLE SLOPE CONCRETE BARRIER TO NEW SINGLE SLOPE CONCRETE BARRIER



SECTION P - P



BARRIER REMOVAL AND REPLACEMENT

RETROFIT OR REPAIR SINGLE SLOPE CONCRETE BARRIER

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

6

SDD 14B32 - 10h

6

SDD 14B32 - 10h

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

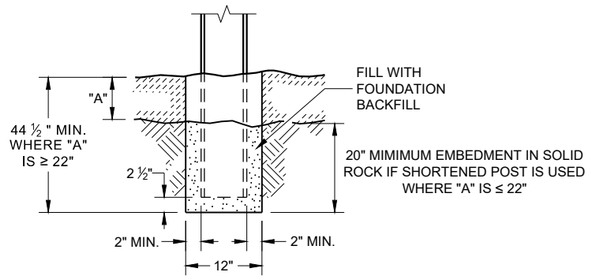
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

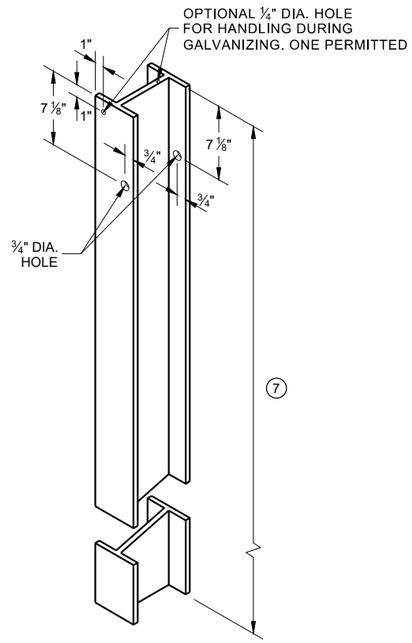
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

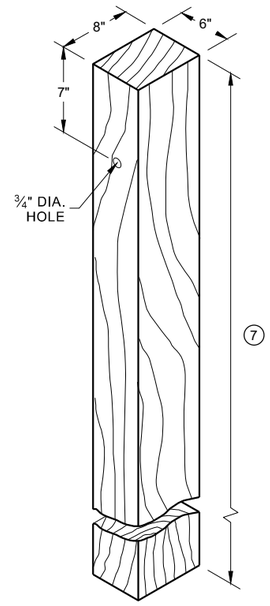
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



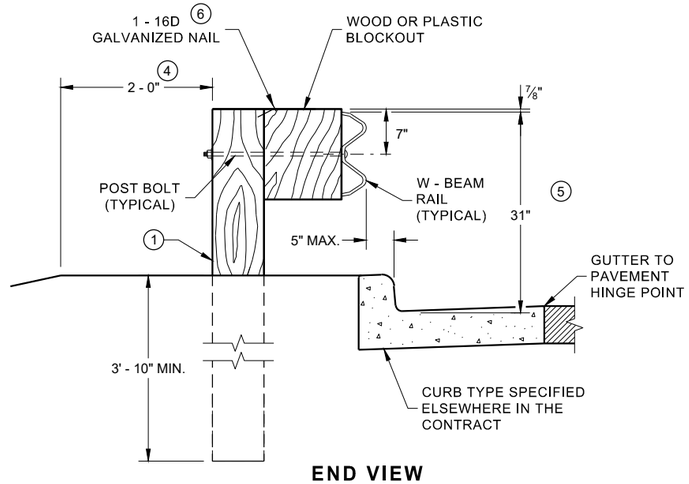
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



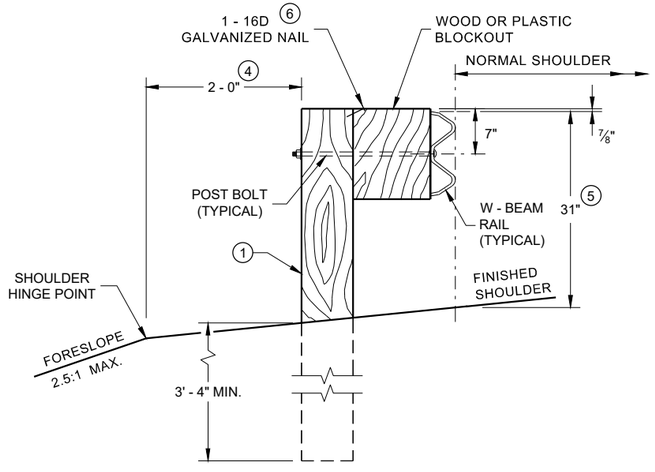
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



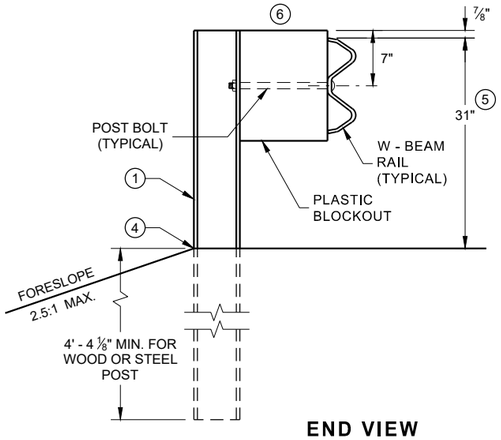
WOOD POST (6" X 8") NOMINAL (1)



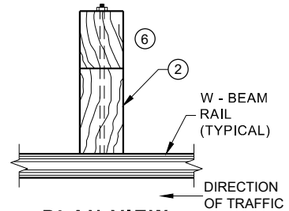
END VIEW
LOCATED ALONG A CURBED ROADWAY



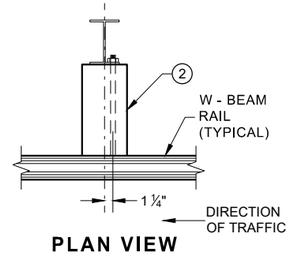
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



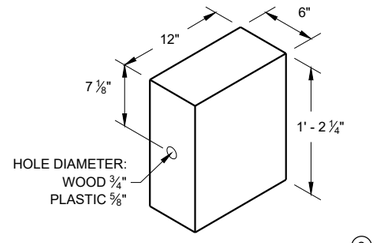
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

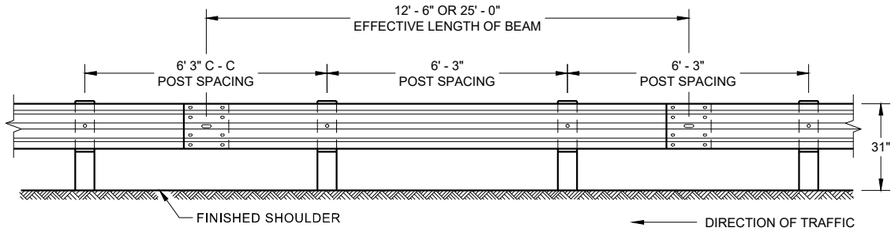
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

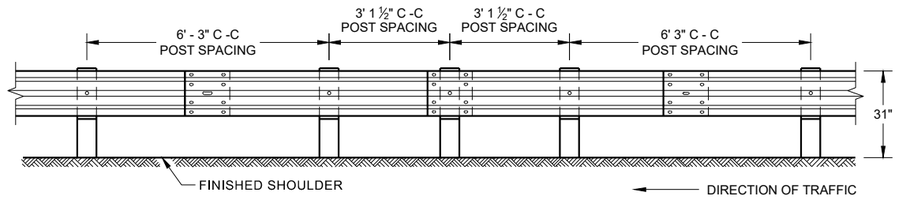
SDD 14B42 - 07a

6

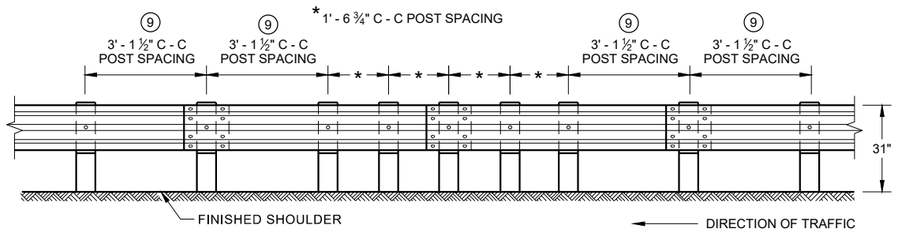
SDD 14B42 - 07a



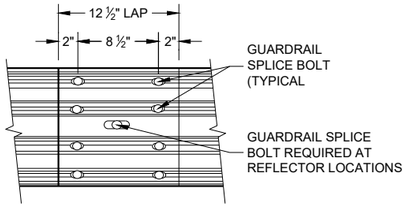
FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

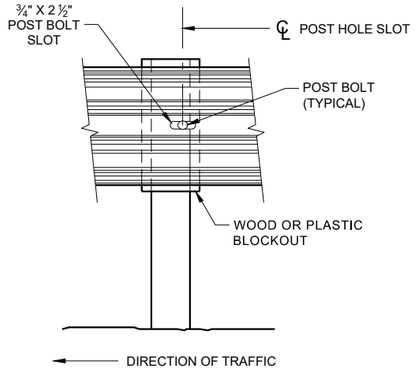
GENERAL NOTES

(8) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

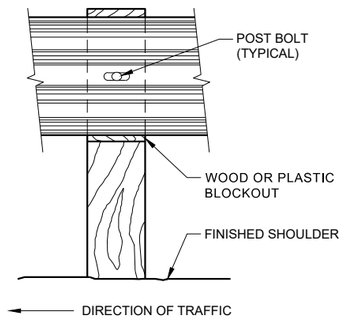
(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

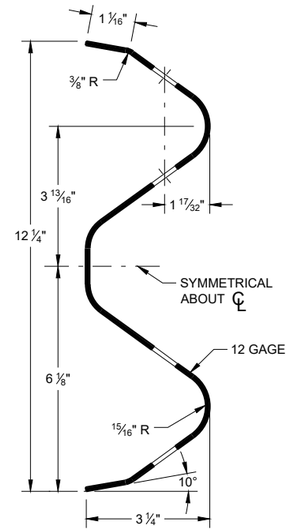
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



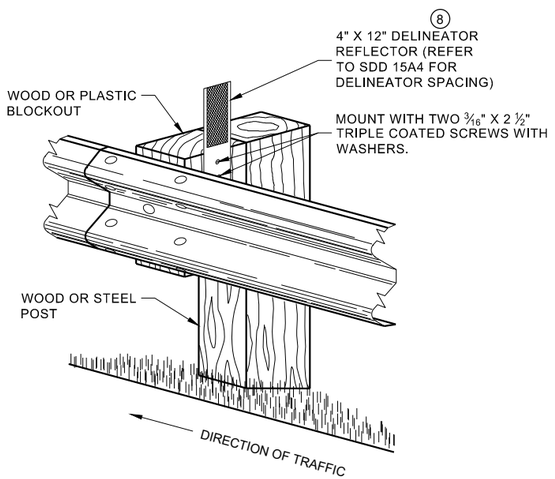
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



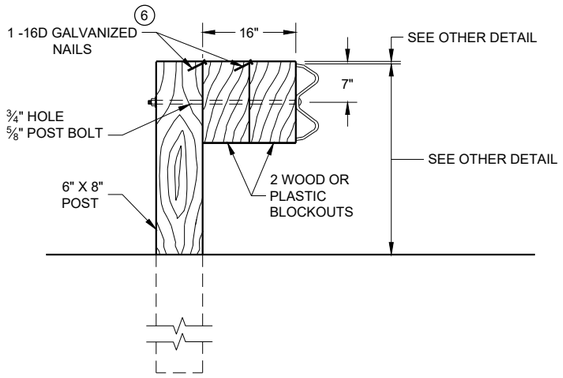
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 07b

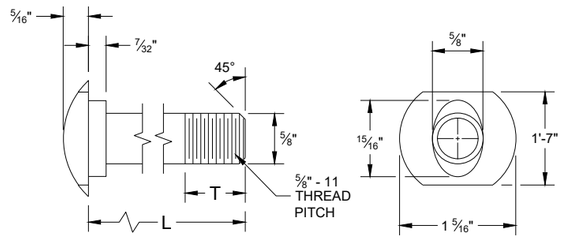


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

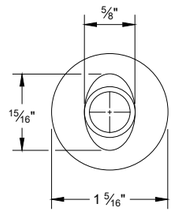
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

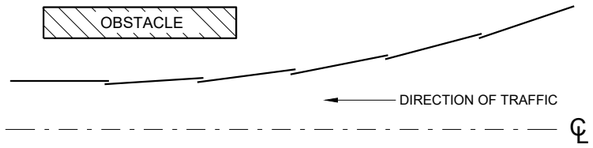


POST BOLT TABLE

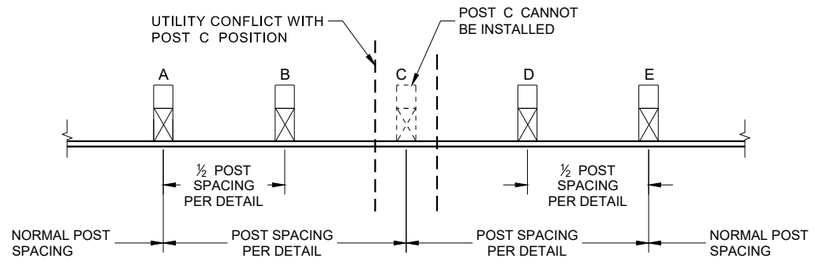
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



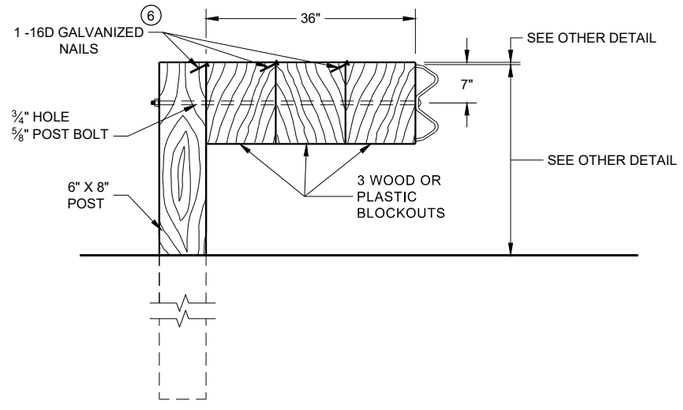
ALTERNATE BOLT HEAD



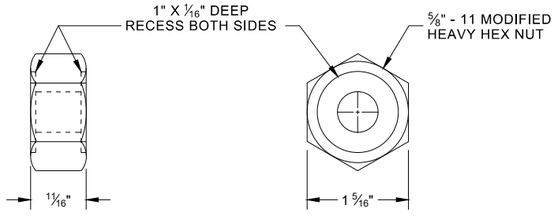
PLAN VIEW
BEAM LAPPING DETAIL



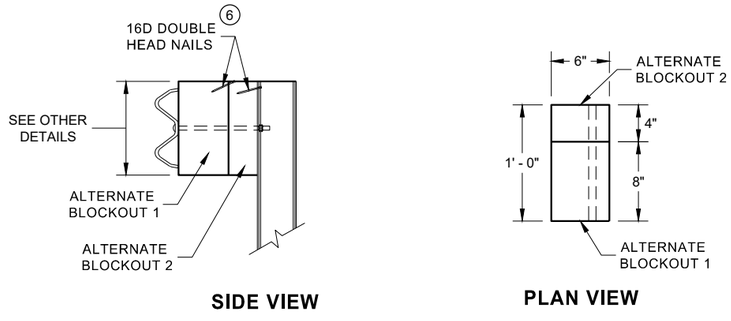
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW

PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

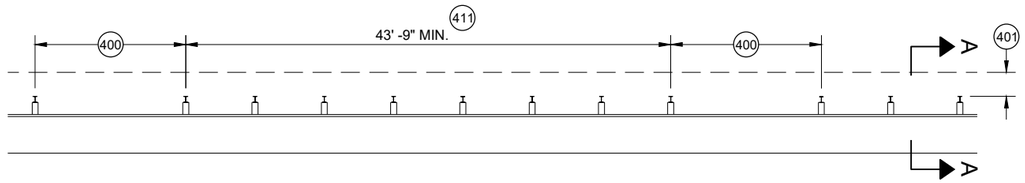
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

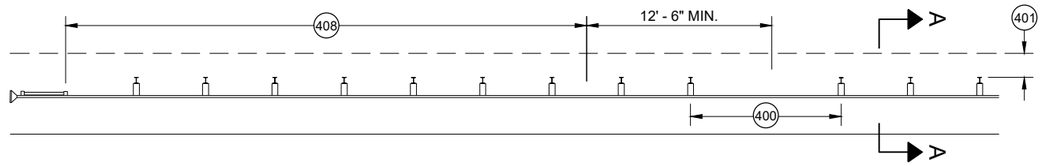
6

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

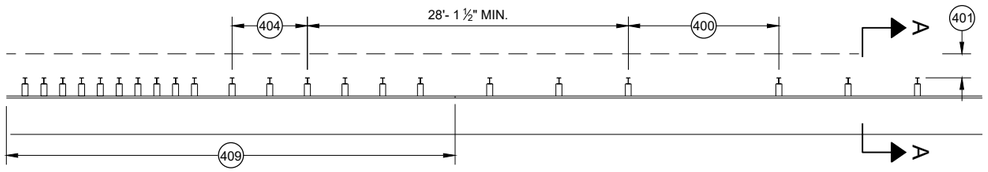
SDD 14B42 - 07c



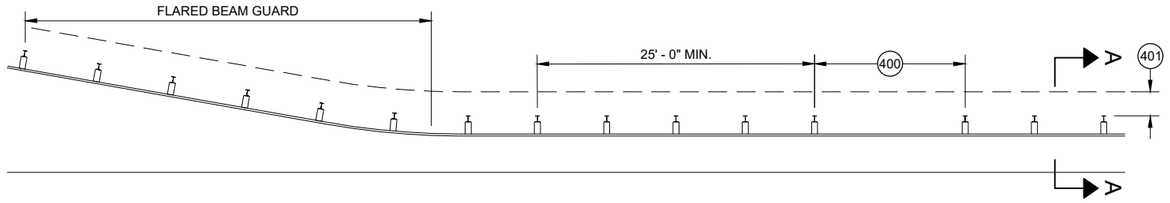
MISSING POST IN MGS GUARDRAIL



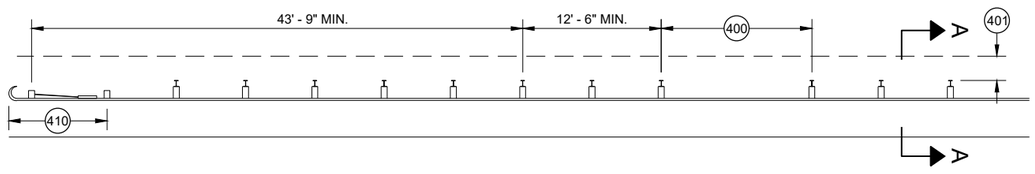
MISSING POST IN MGS GUARDRAIL NEAR EAT



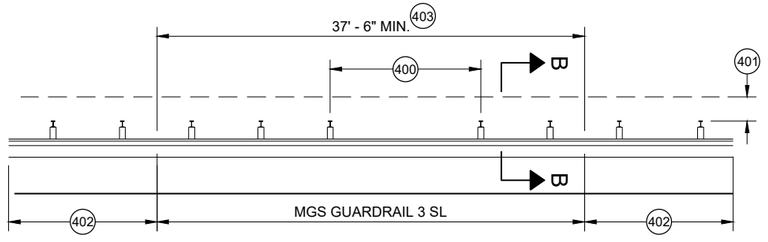
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

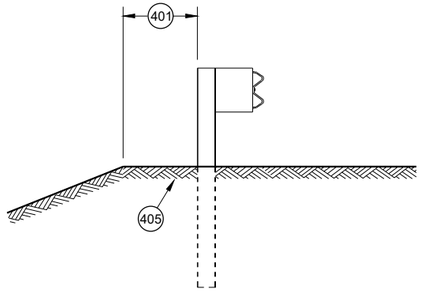


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

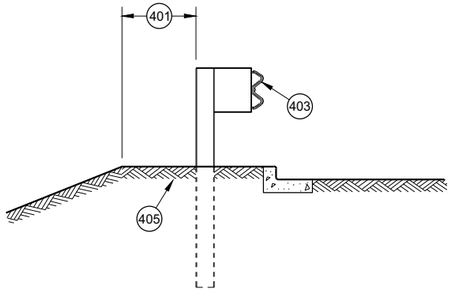


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

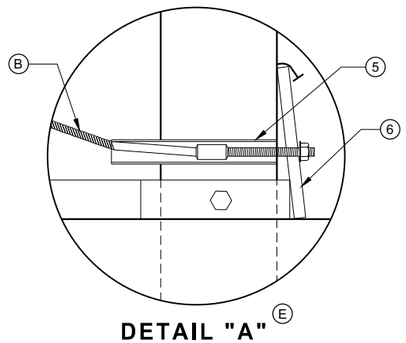
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

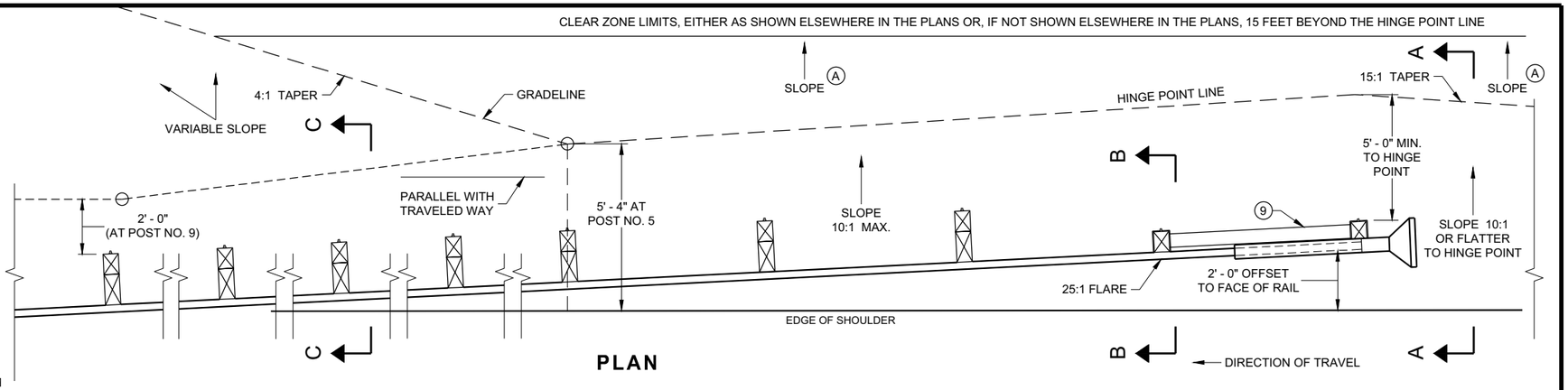
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

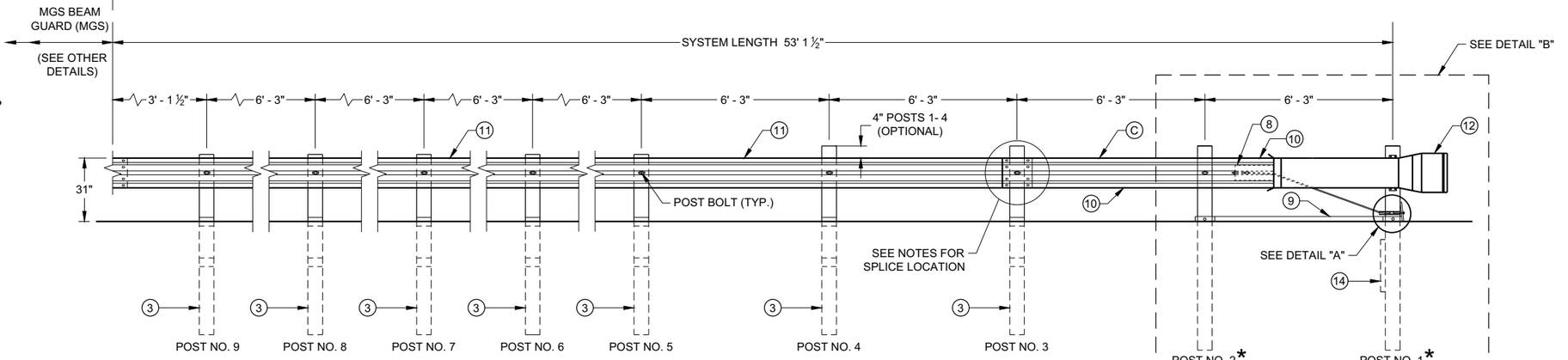
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

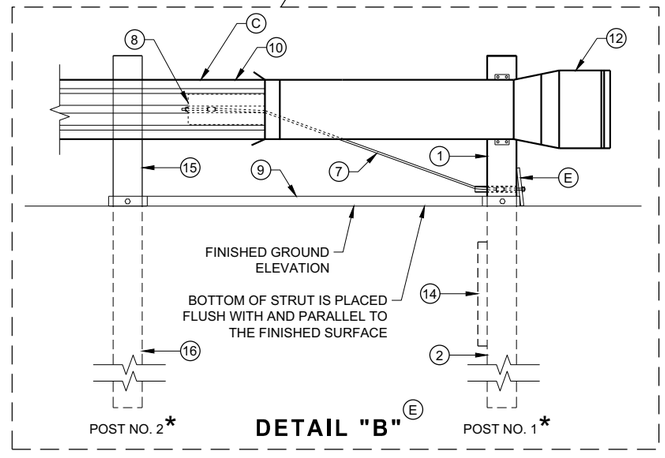
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.

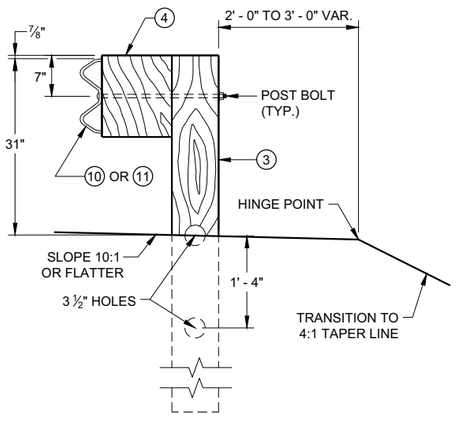


DETAIL "A" (E)

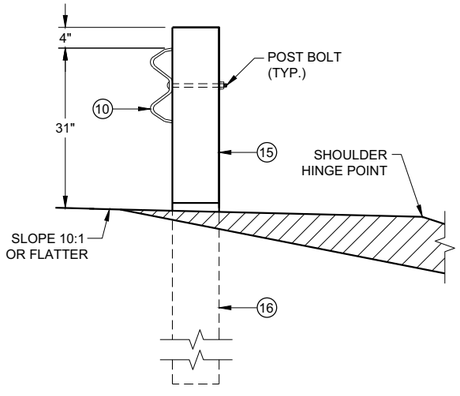




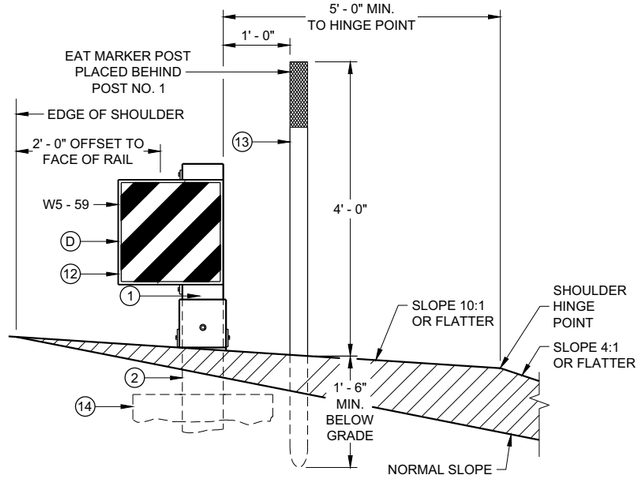




SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



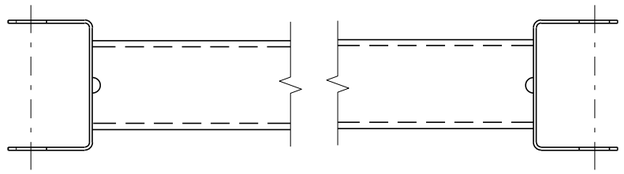
SECTION A - A
TYPICAL AT POST NO. 1*

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

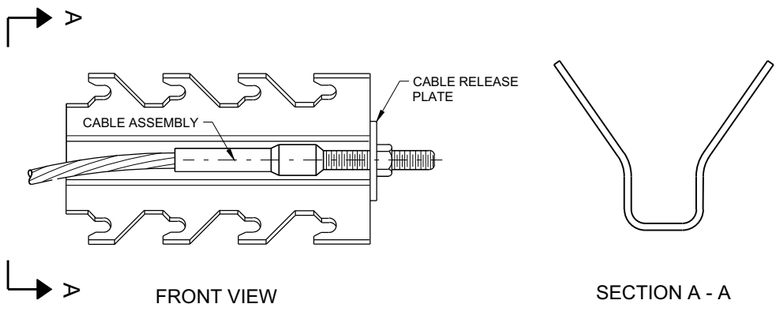
SDD 14B44 - 04a



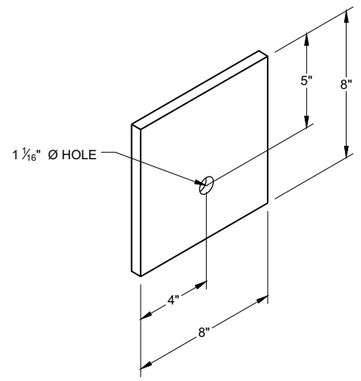
GENERIC GROUND STRUT (9) (E)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
(1)	UPPER POST NO. 1 6" X 6" TUBE
(2)	LOWER POST NO. 1
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX (9) (E)



BEARING PLATE (6) (E)

6

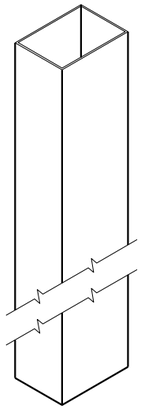
6

SDD 14B44 - 04b

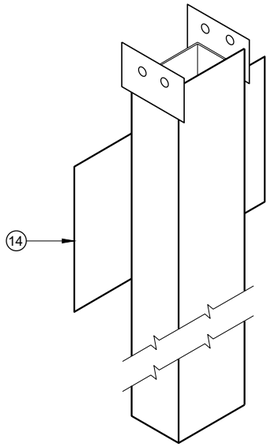
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

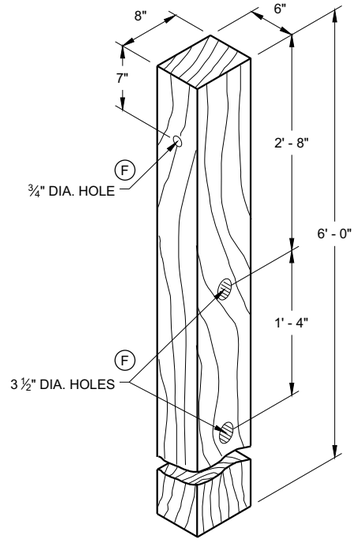
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



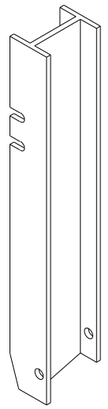
UPPER POST NO. 1 (1) (E)



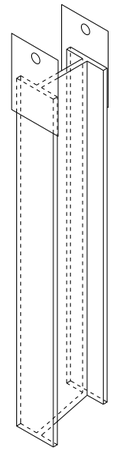
LOWER POST NO. 1 (2) (E)



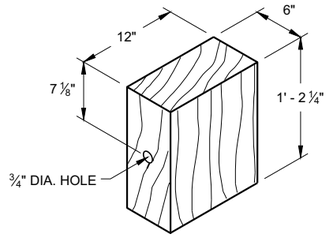
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



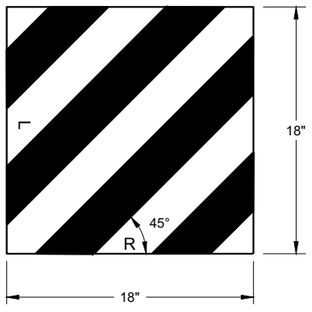
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

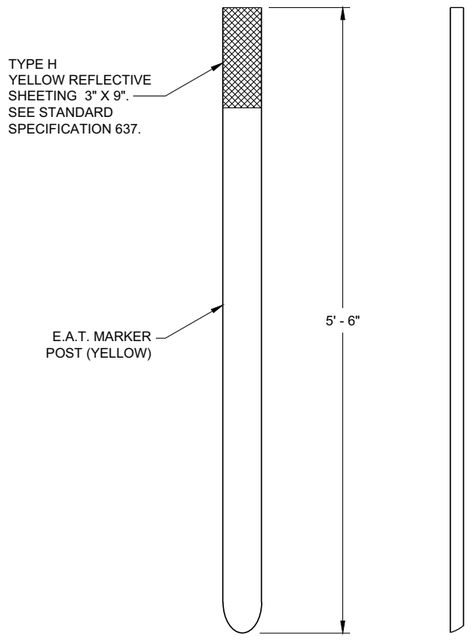


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



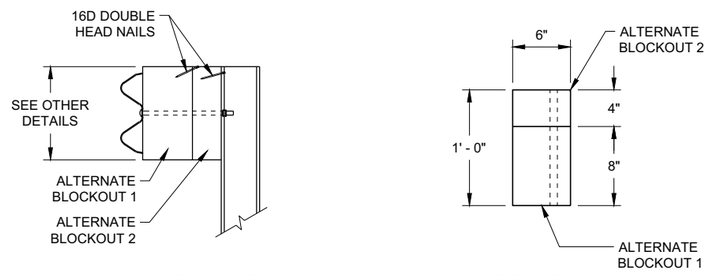
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

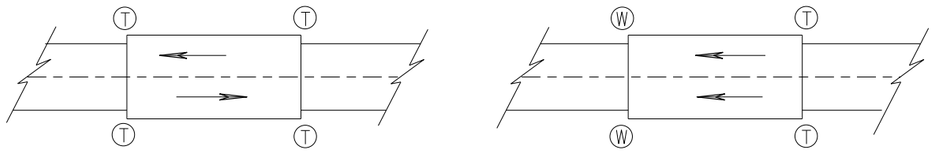
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

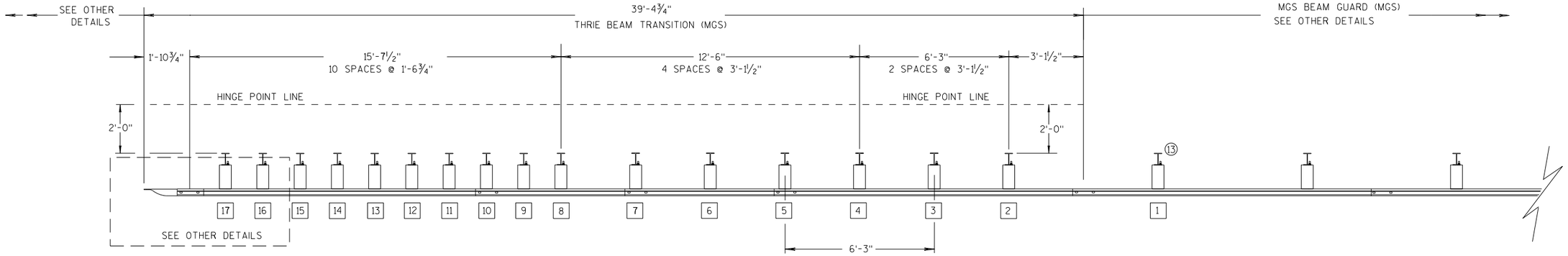
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

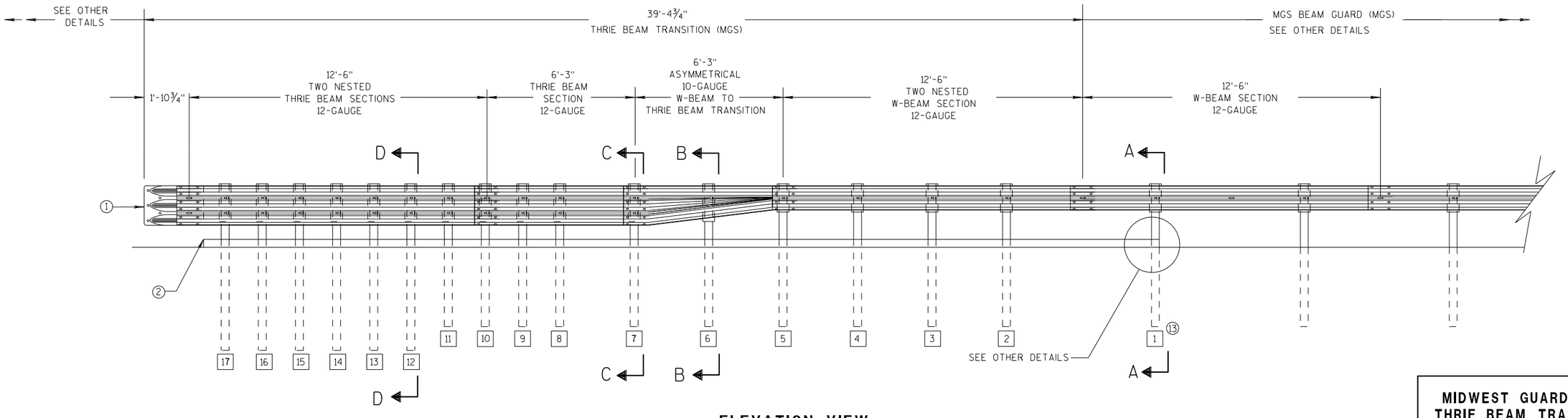
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 480

6

S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

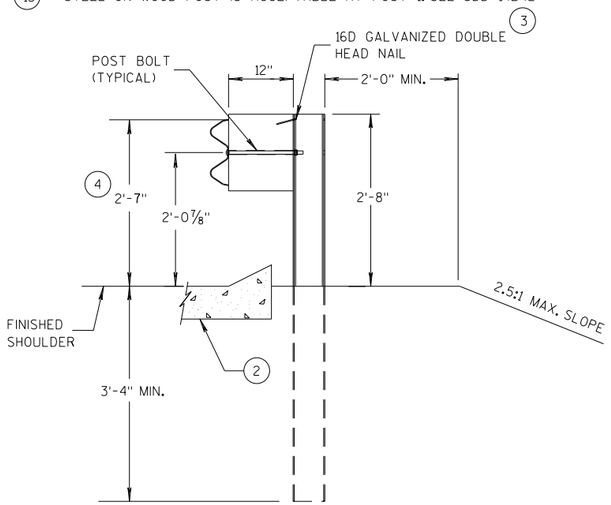
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

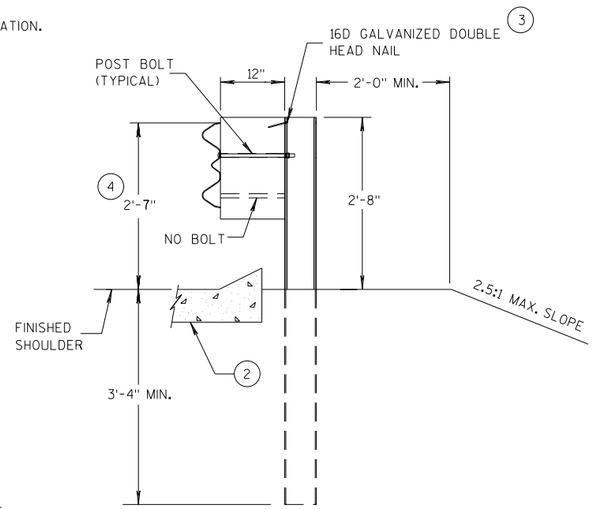
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



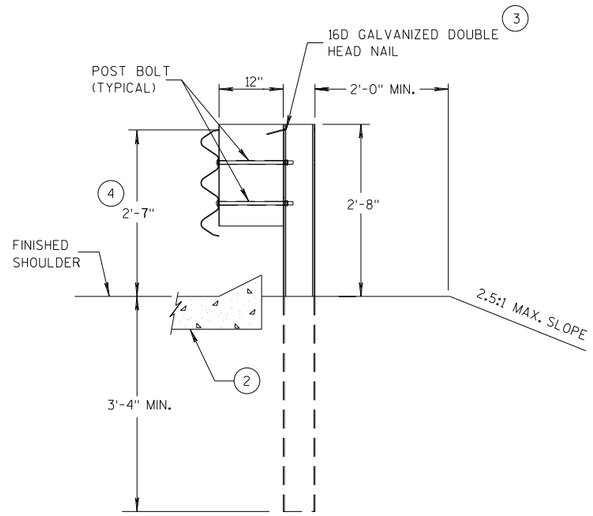
SECTION A-A (13)

POSTS 1-5



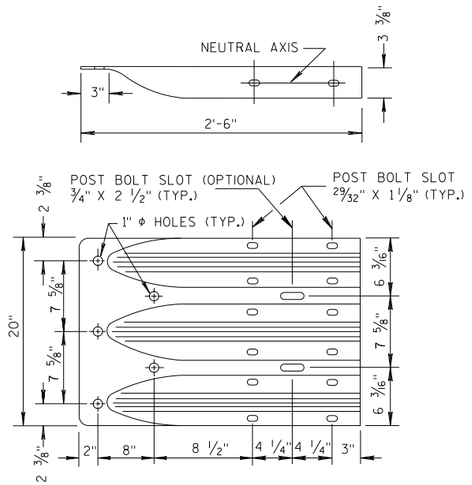
SECTION B-B

POST 6

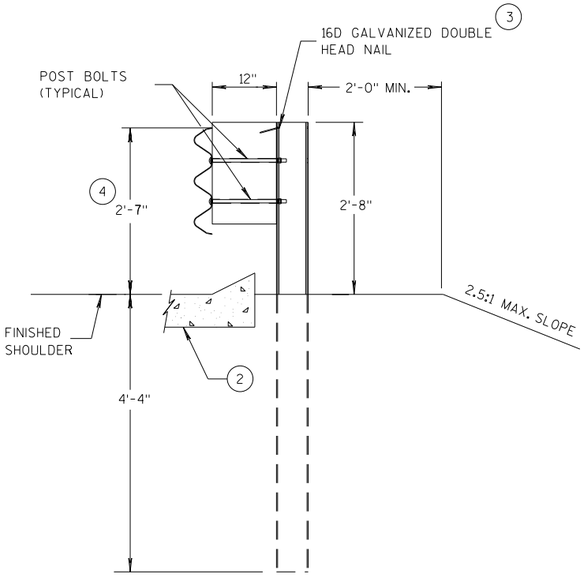


SECTION C-C

POSTS 7-11

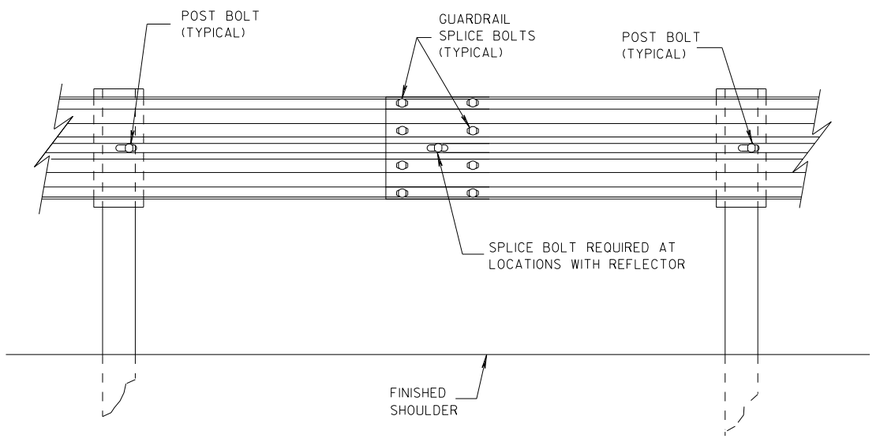


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

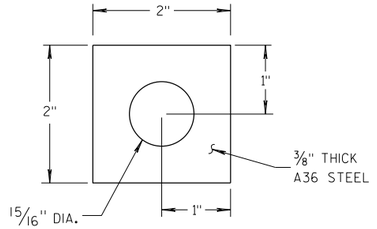
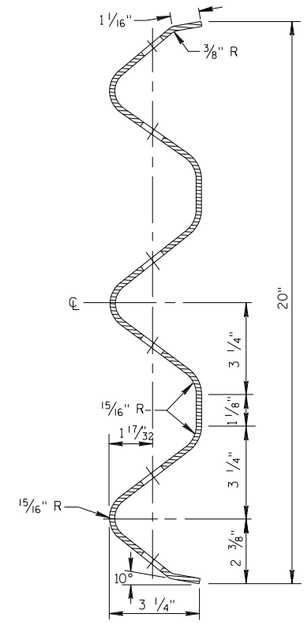


PLATE WASHER DETAIL



SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

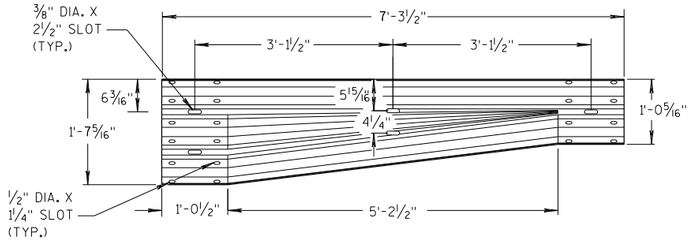
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 481

6

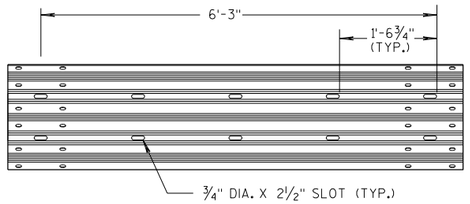
S.D.D. 14 B 45-5b

6

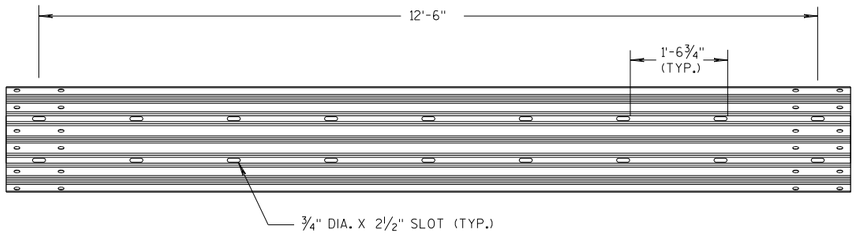
S.D.D. 14 B 45-5b



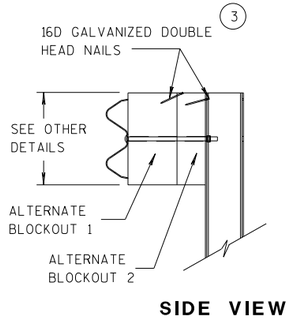
W-BEAM TO THRIE BEAM TRANSITION SECTION



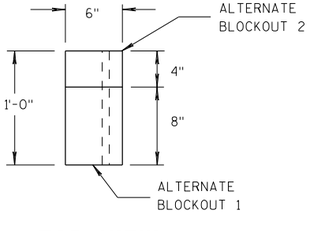
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

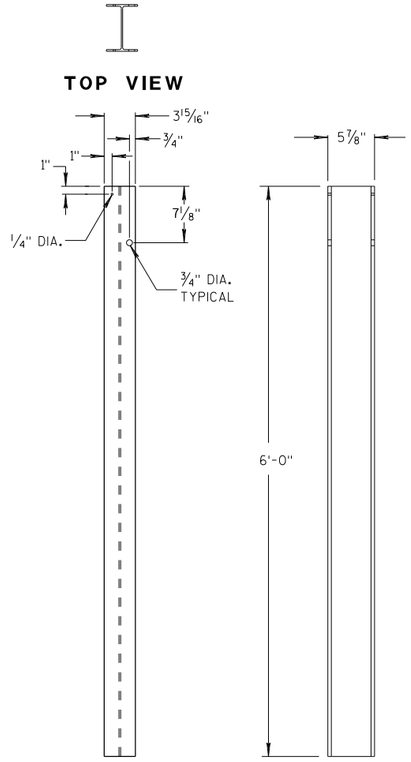


SIDE VIEW



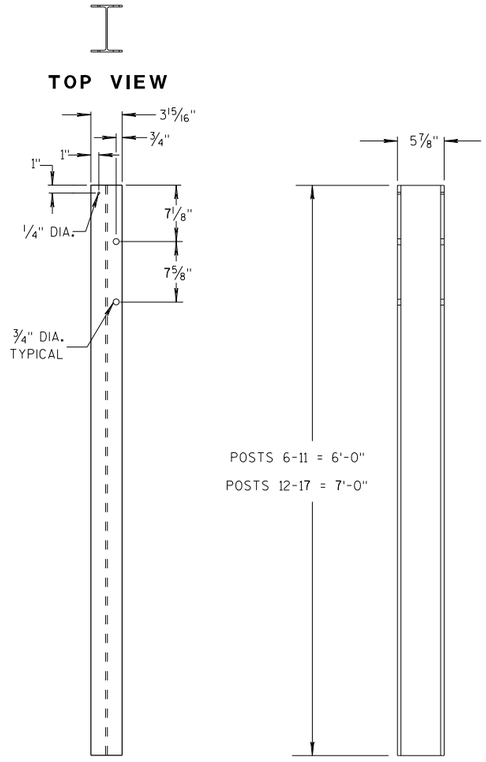
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



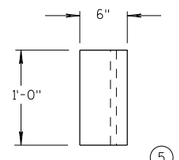
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

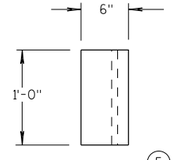


FRONT VIEW SIDE VIEW

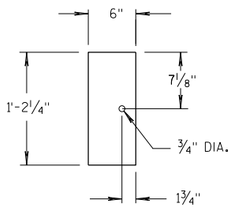
STEEL POSTS 6-17



TOP VIEW (5)

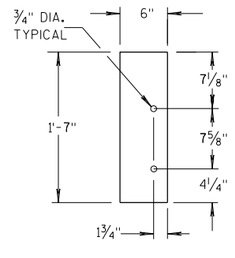


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

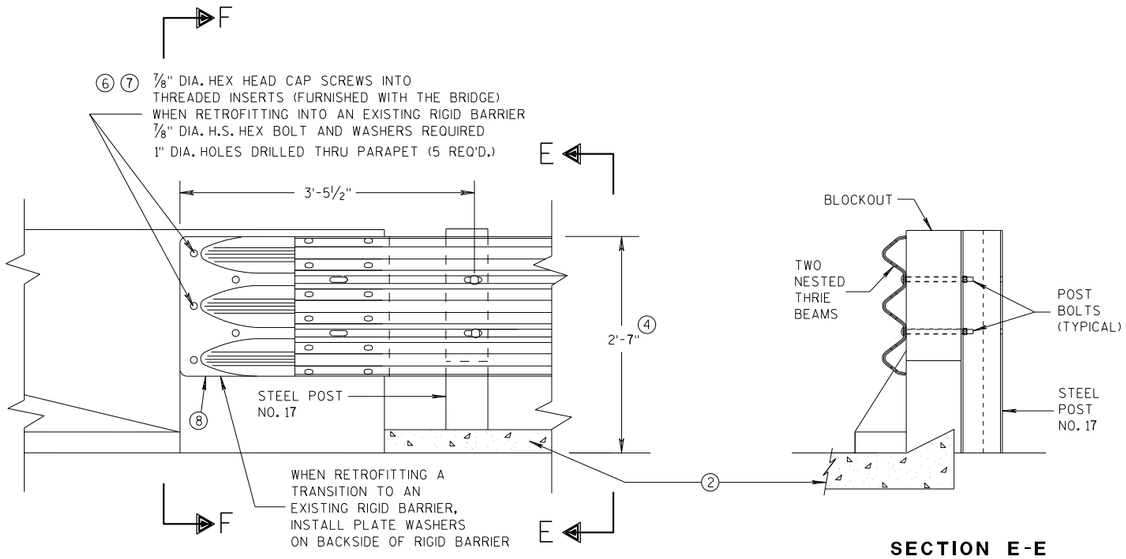
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

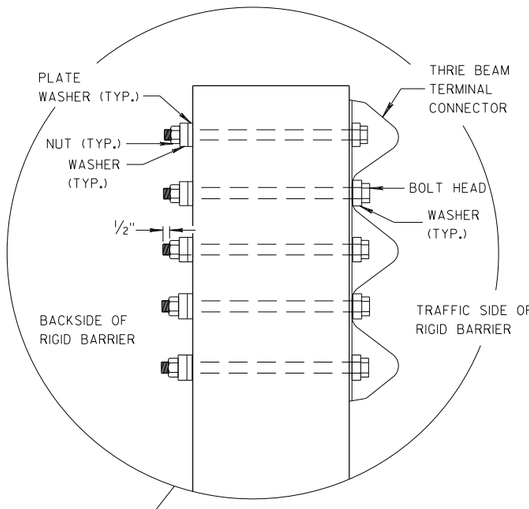
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

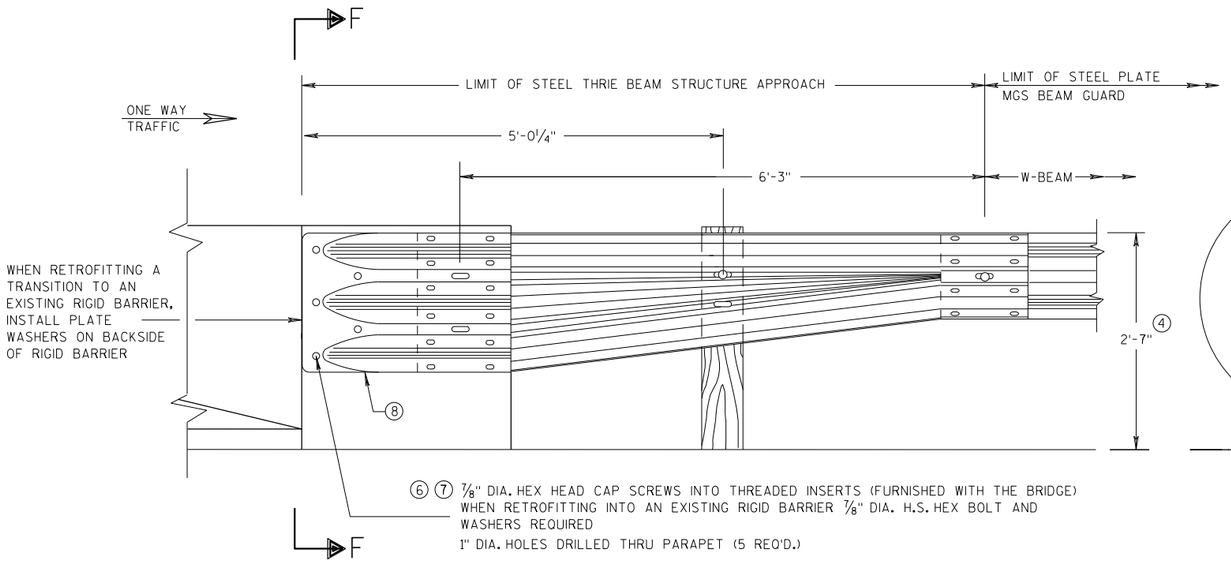
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

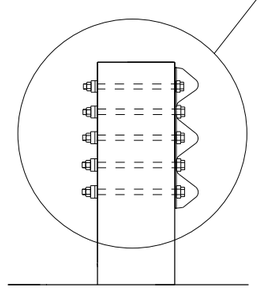
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

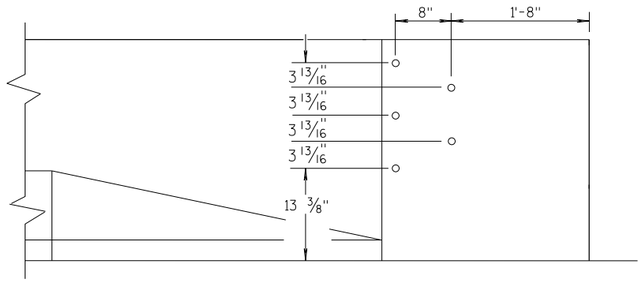




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVIS NT
FHWA

6

S.D.D. 14 B 45-5d

6

S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

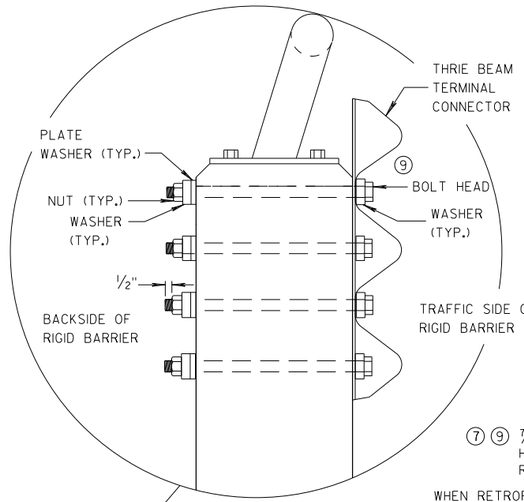
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

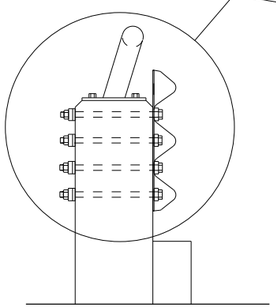
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

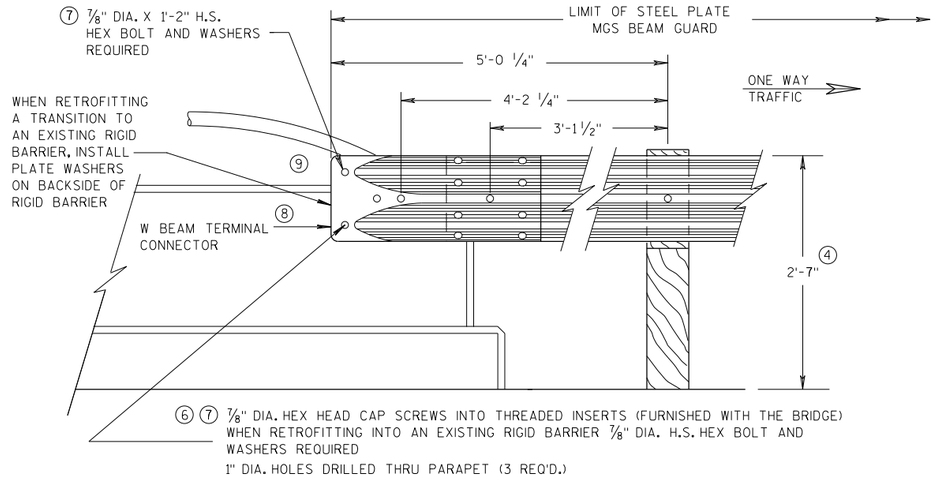
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





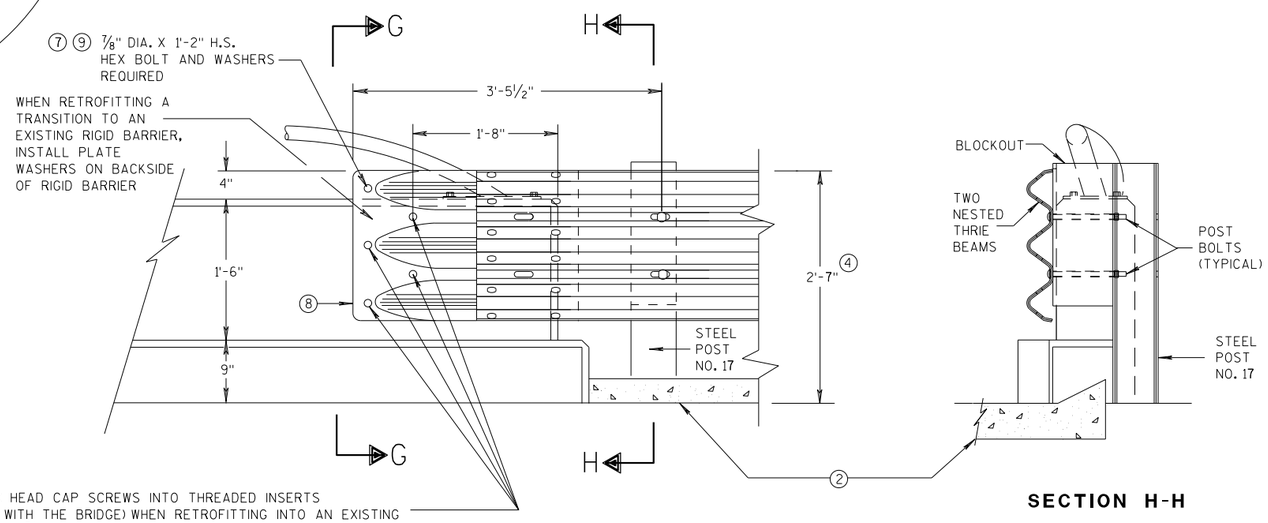
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVIS

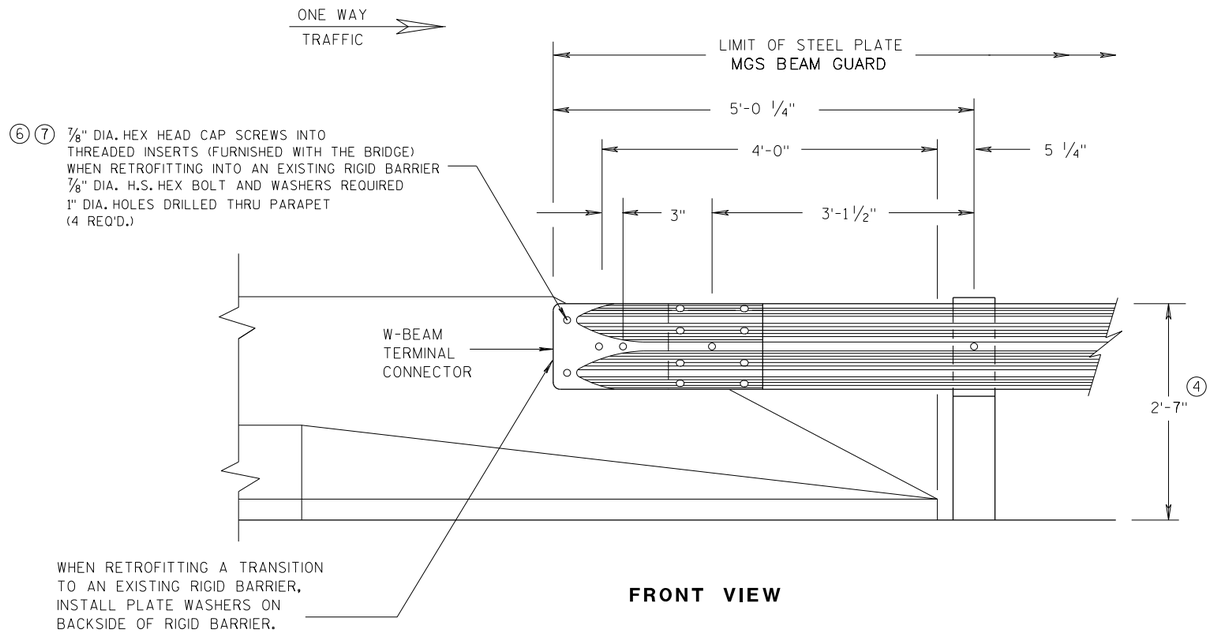
NT

6

S.D.D. 14 B 45-5e

6

S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

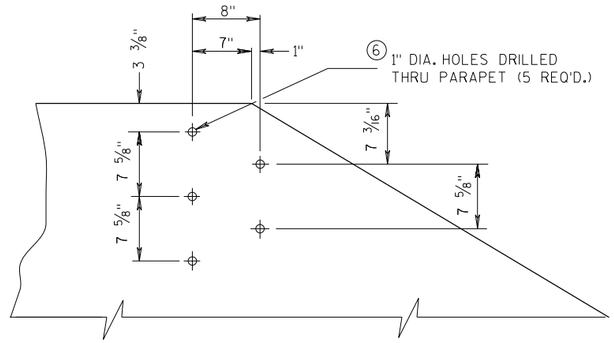
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

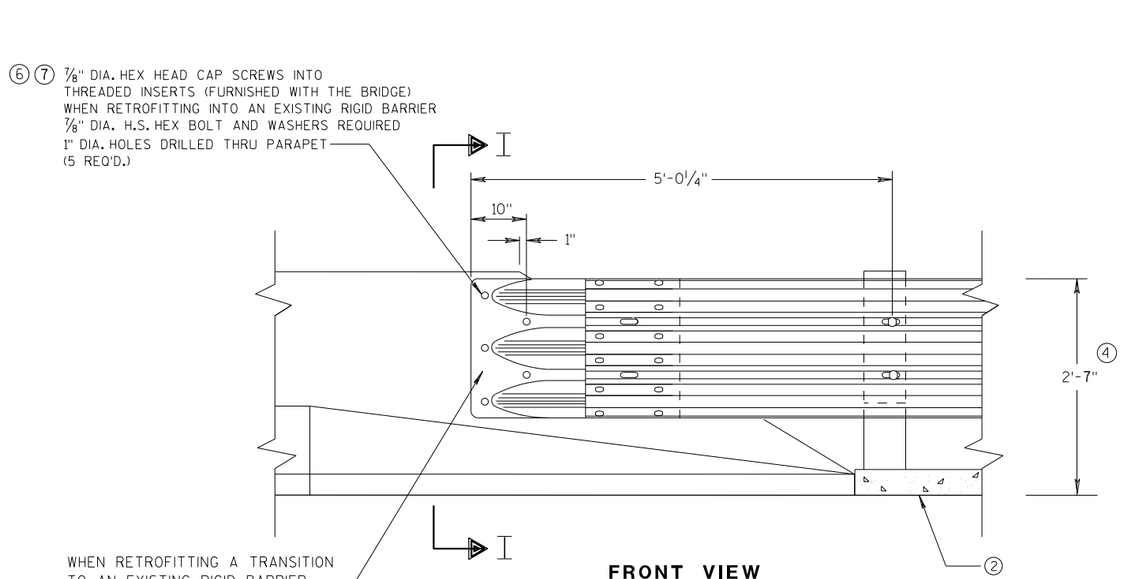
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

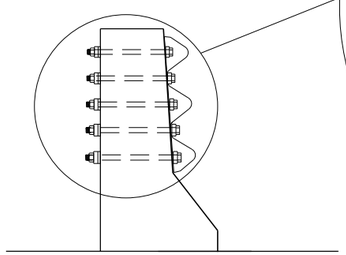
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



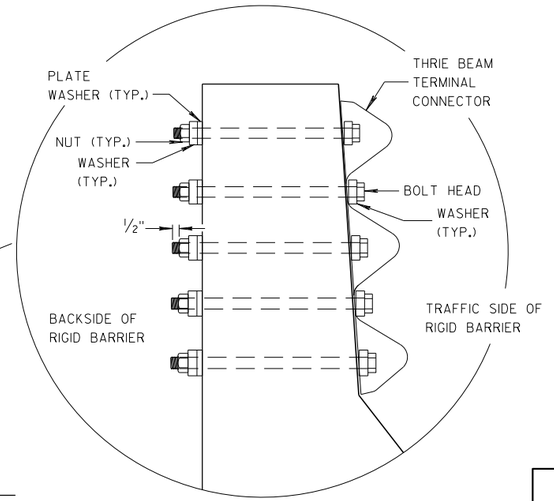
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

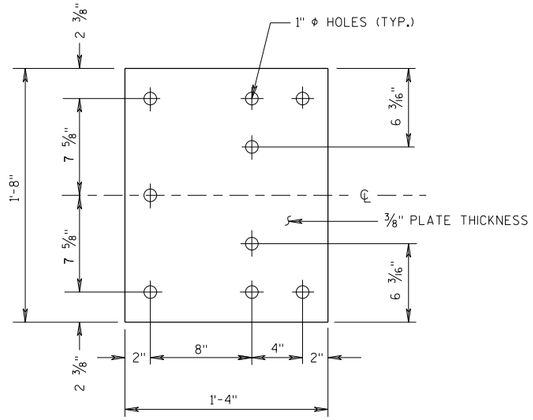
APPROVED
07/2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS [illegible] UNIT SUPERVI[illegible]ENT
FHWA

6

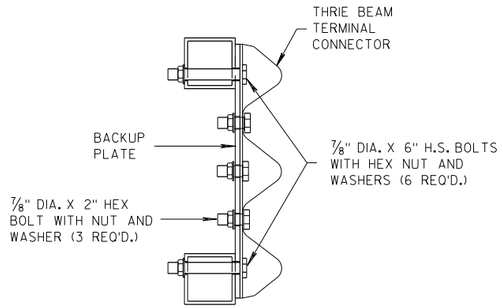
S.D.D. 14 B 45-5f

6

S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL

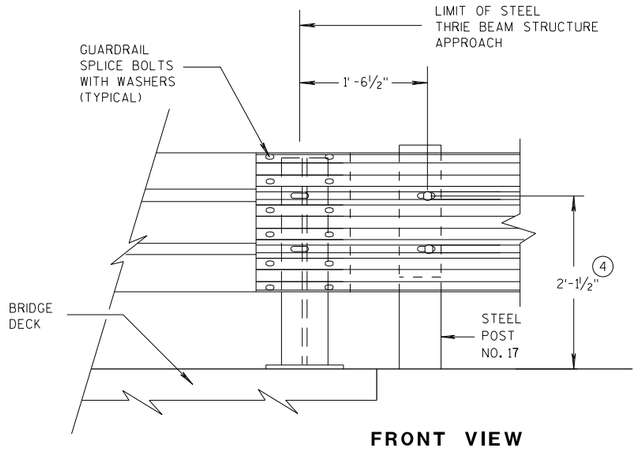


SECTION J-J

GENERAL NOTES

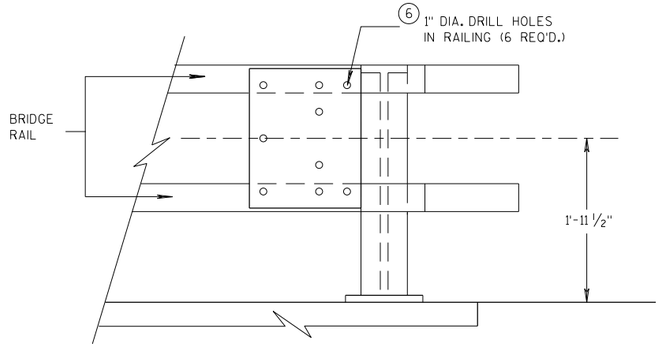
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(6) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

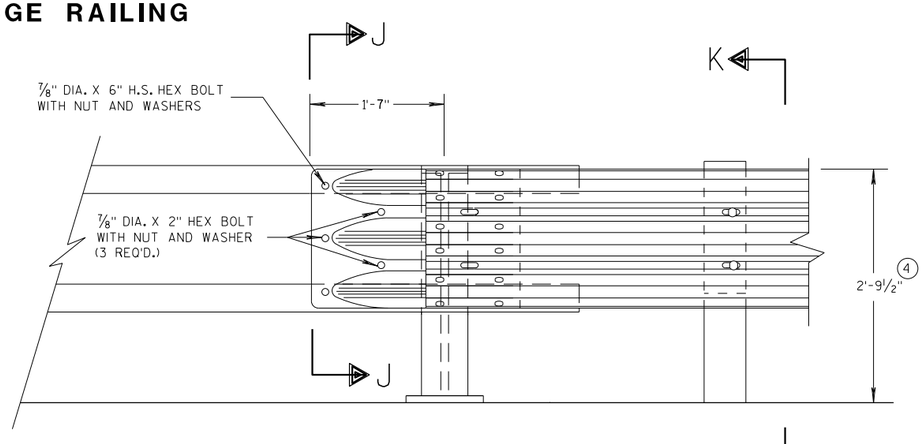


FRONT VIEW

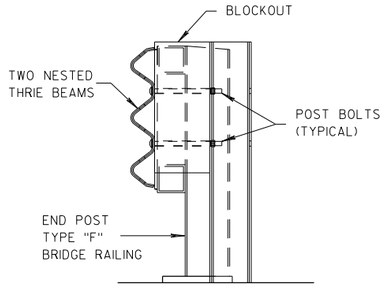
THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
FHWA

/S/ Rodney Taylor 486
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

6

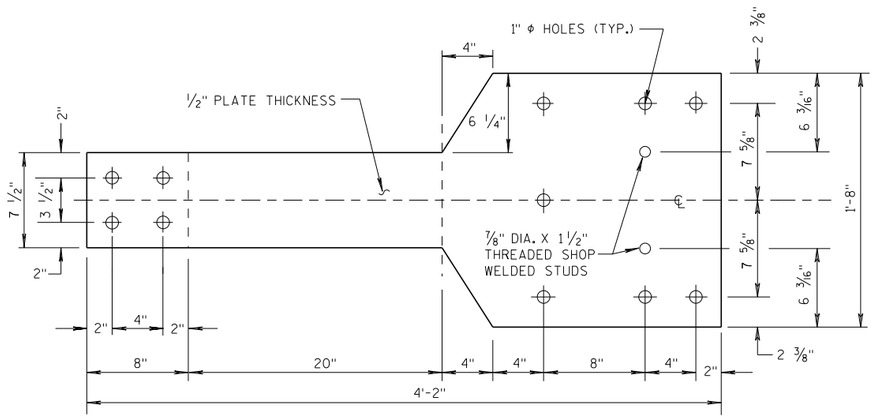
S.D.D. 14 B 45-5g

6

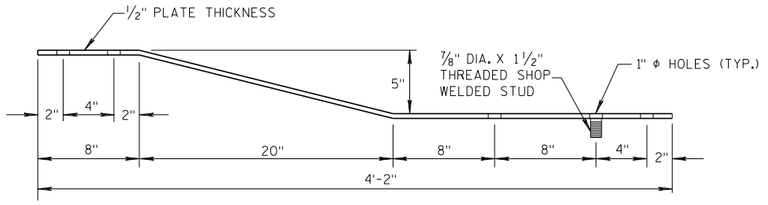
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

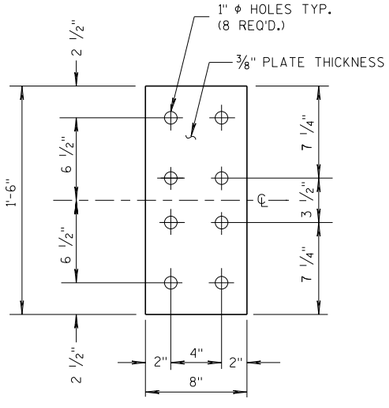


FRONT VIEW



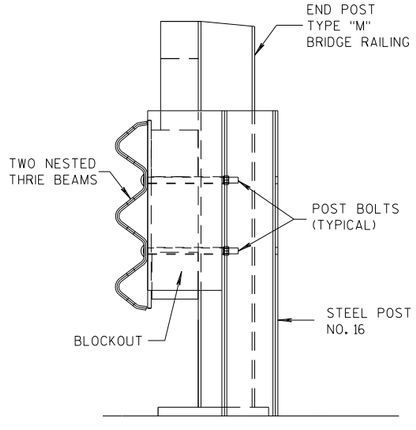
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

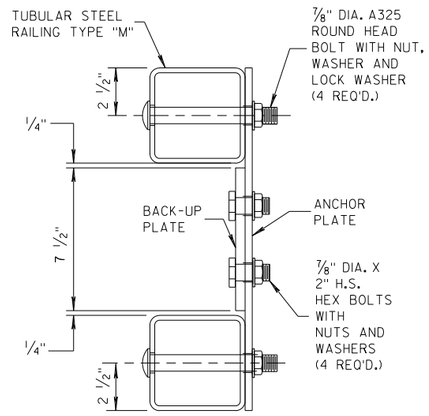


FRONT VIEW

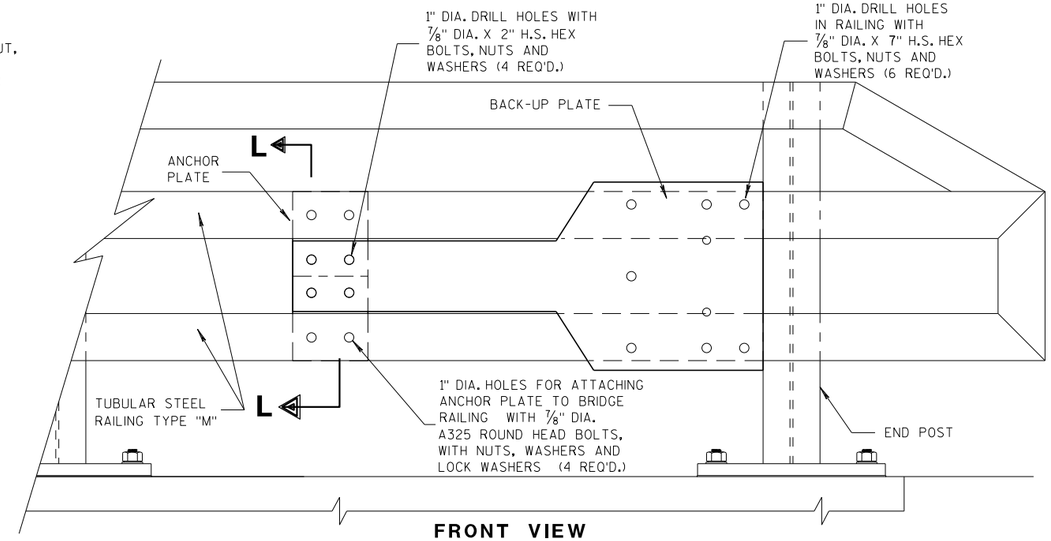
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

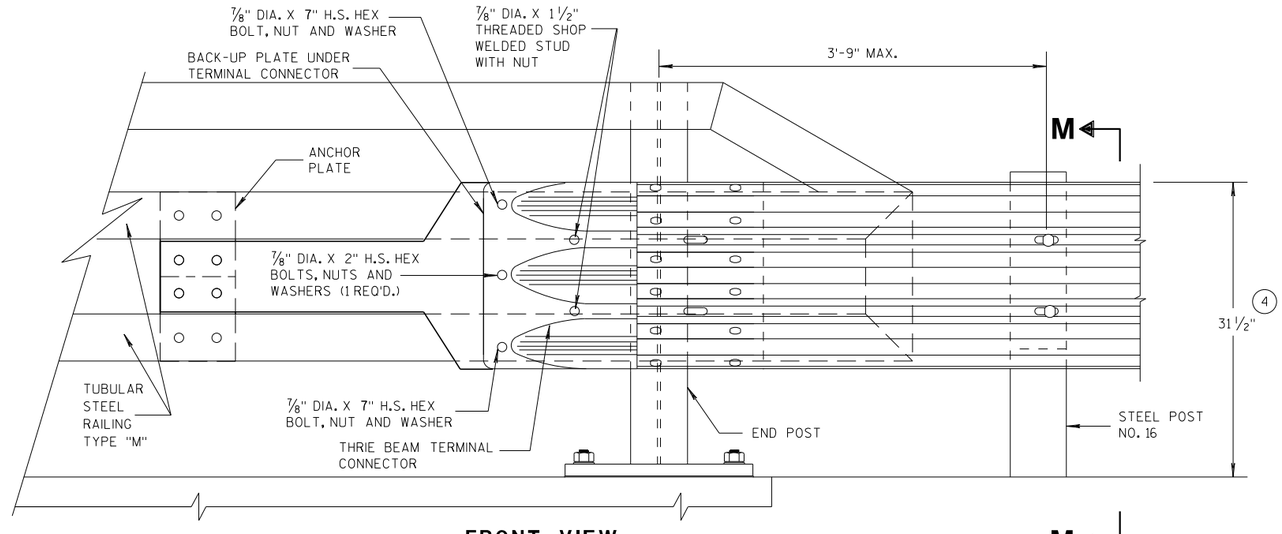


SECTION L-L

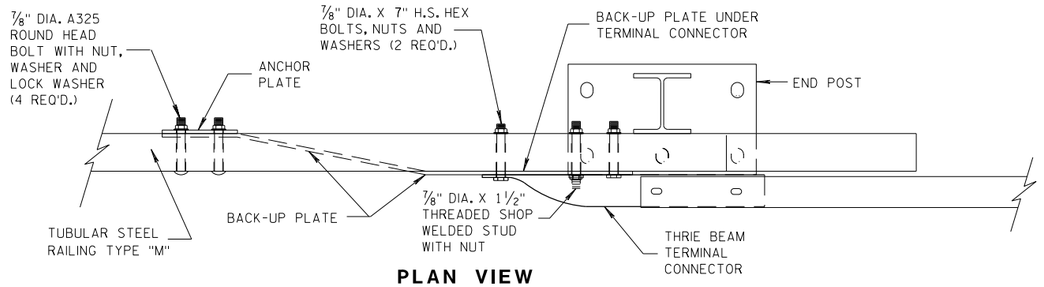


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 14 B 45-5h

6

S.D.D. 14 B 45-5h

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

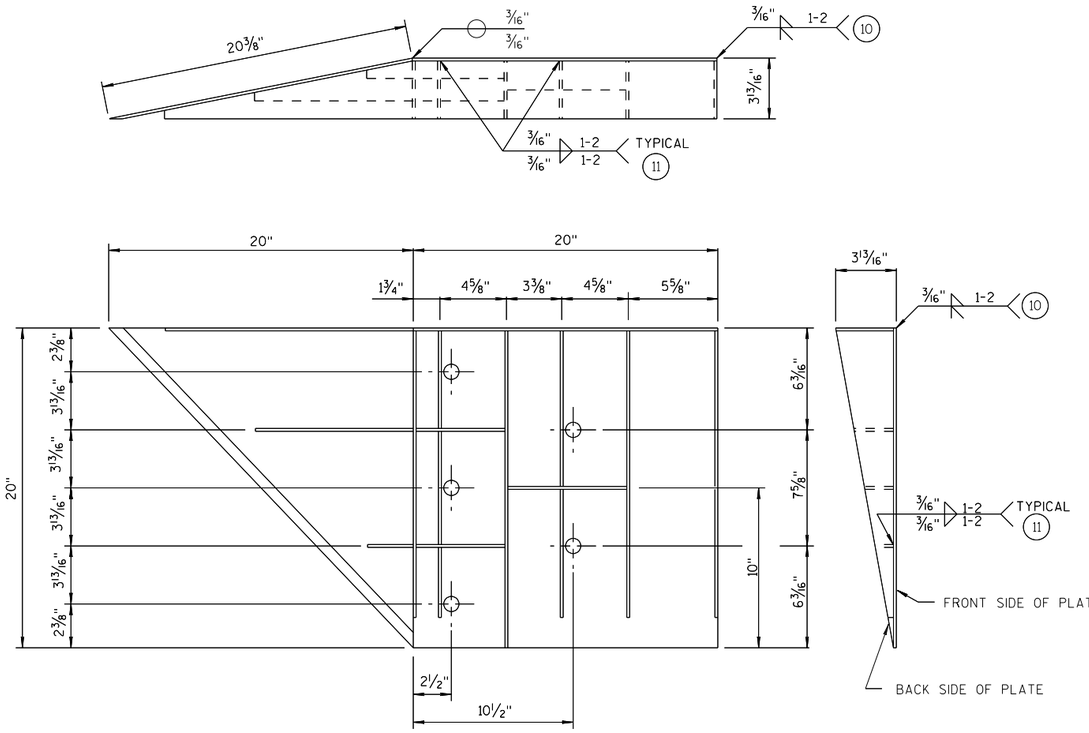
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

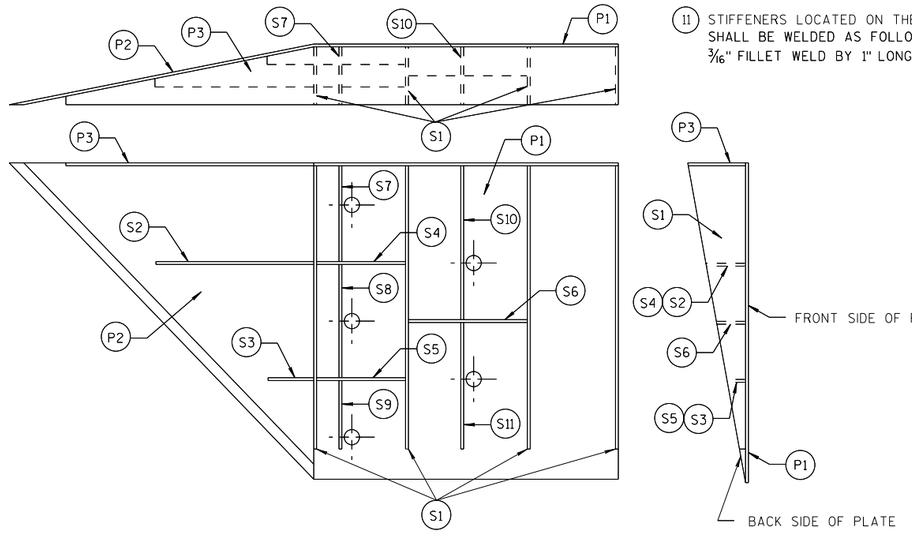


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

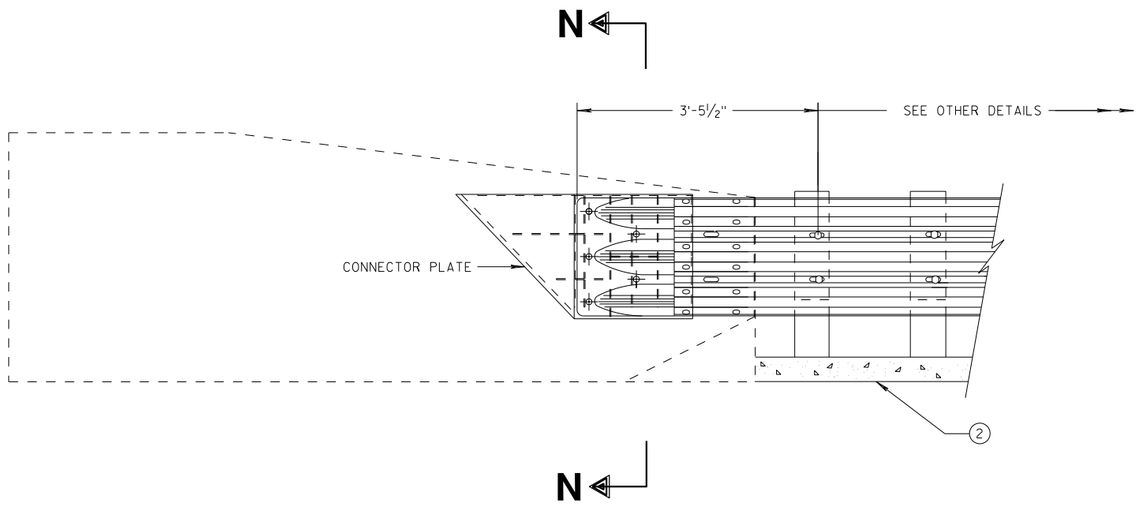
APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS I
UNIT SUPERVI

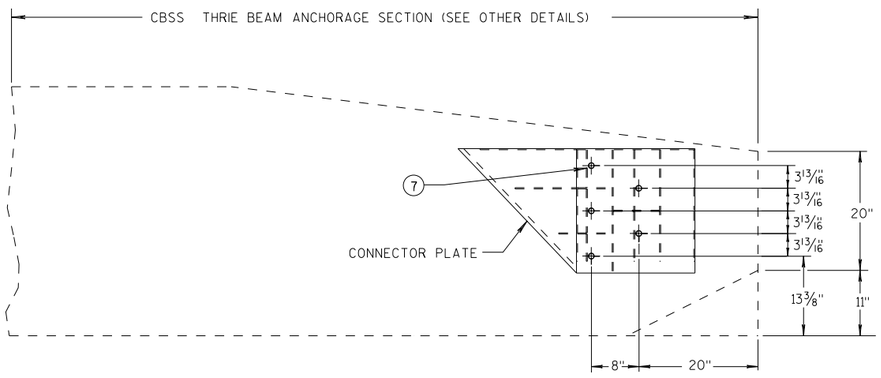
ENT

6

S.D.D. 14 B 45-5i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



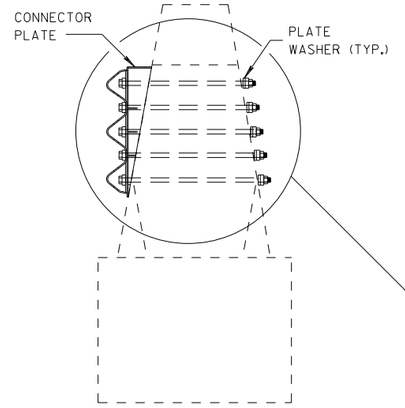
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

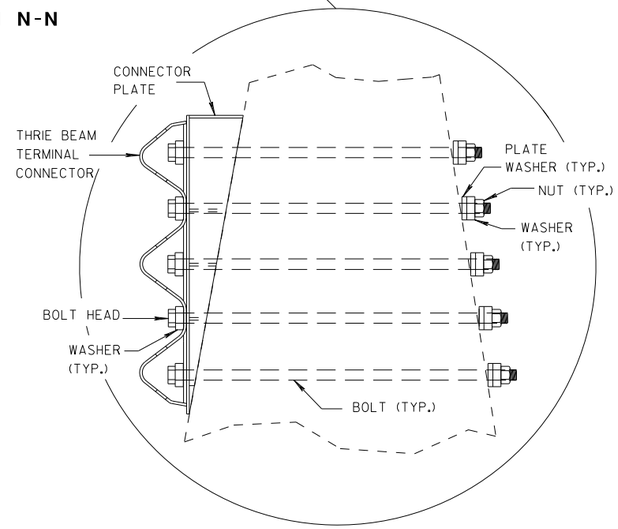
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

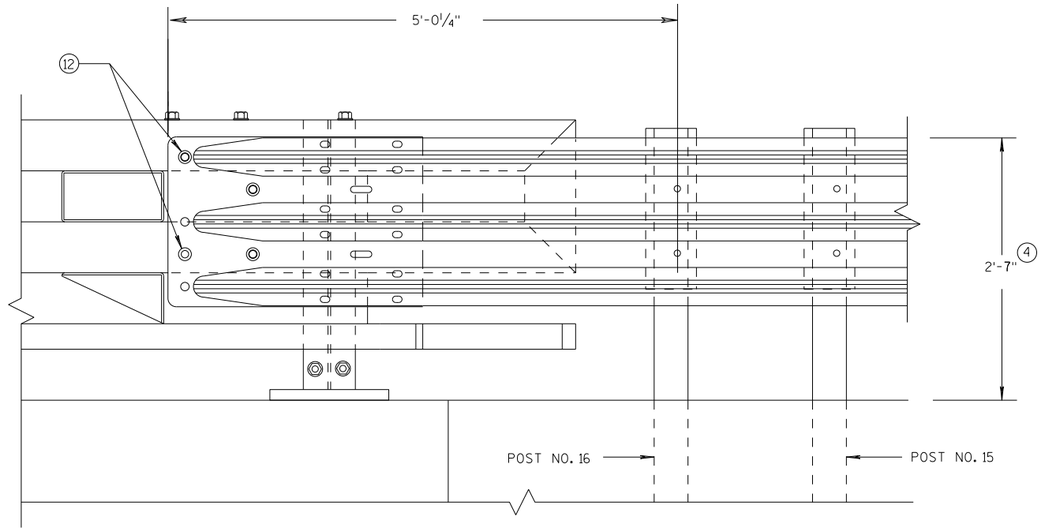
APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DI UNIT SUPERVIS
NT
FHWA

6

S.D.D. 14 B 45-5j

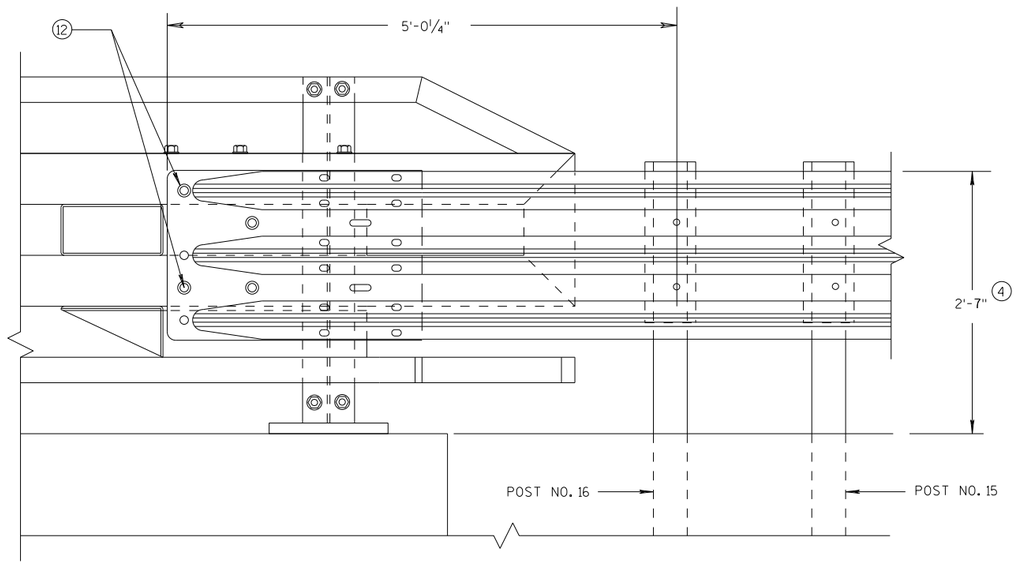
6

S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

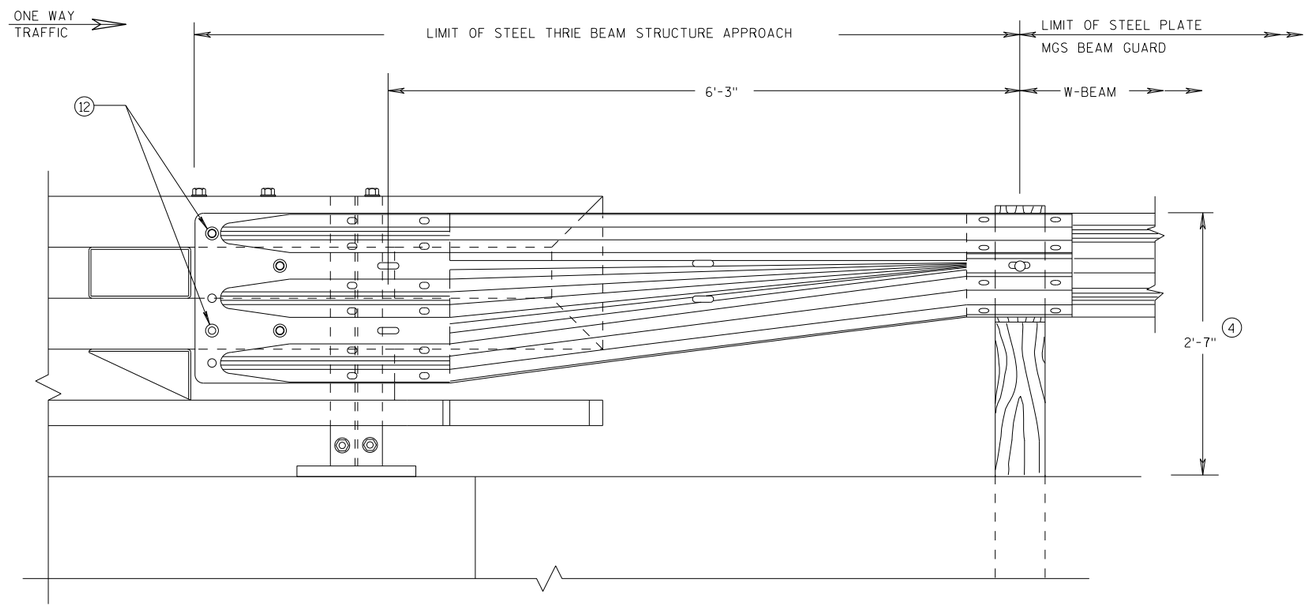
/S/ Rodney Taylor
ROADWAY STANDARDS D 490 NT
UNIT SUPERVIS

6

S.D.D. 14 B 45-5k

6

S.D.D. 14 B 45-5k



FRONT VIEW

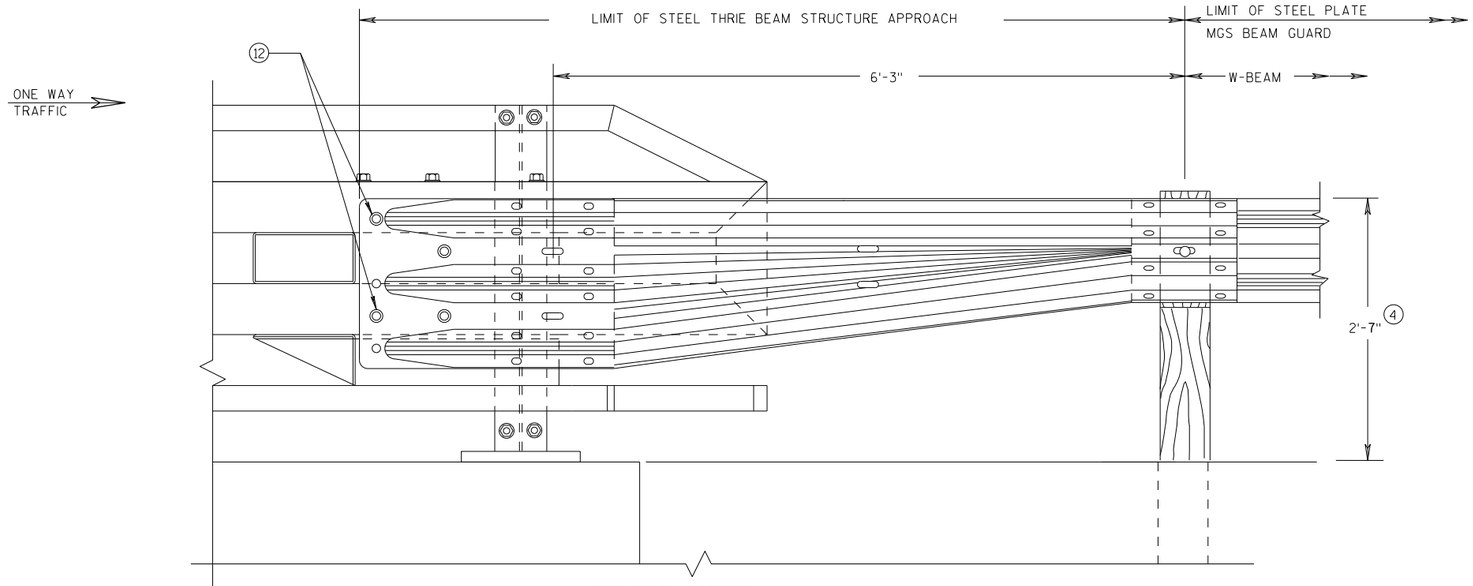
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS

491

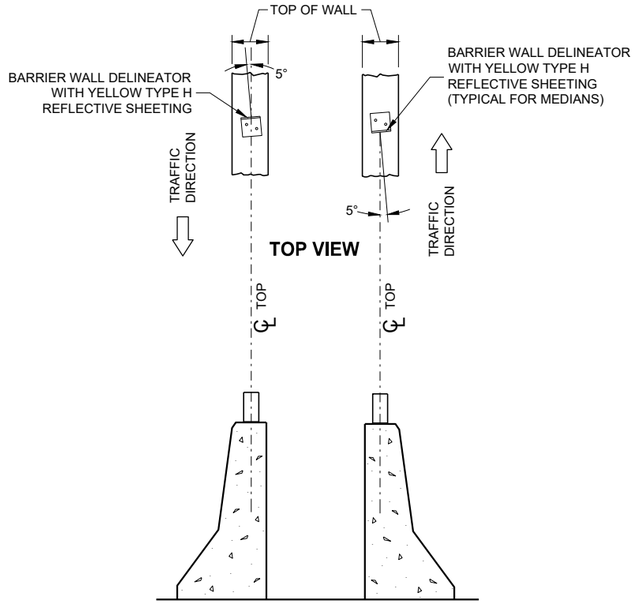
NT

6

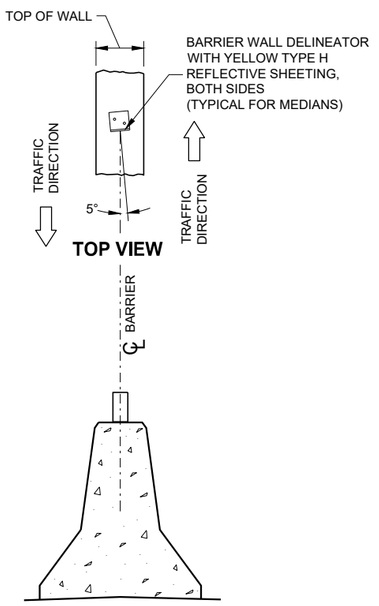
S.D.D. 14 B 45-5L

6

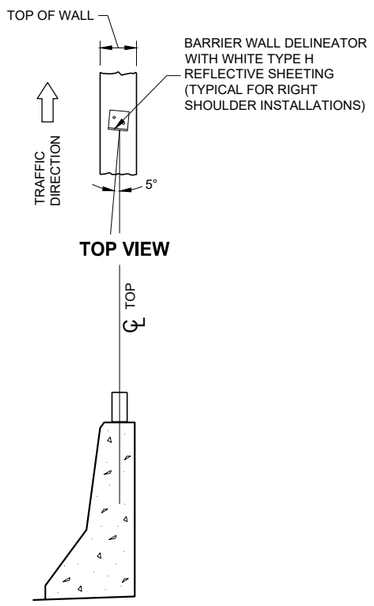
S.D.D. 14 B 45-5L



SIDE VIEW
DOUBLE BARRIERS IN MEDIAN

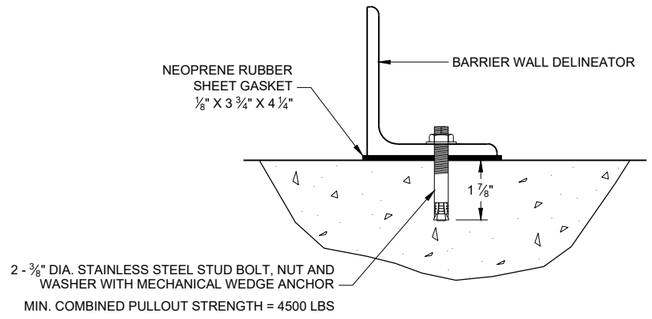


SIDE VIEW
MEDIAN BARRIER

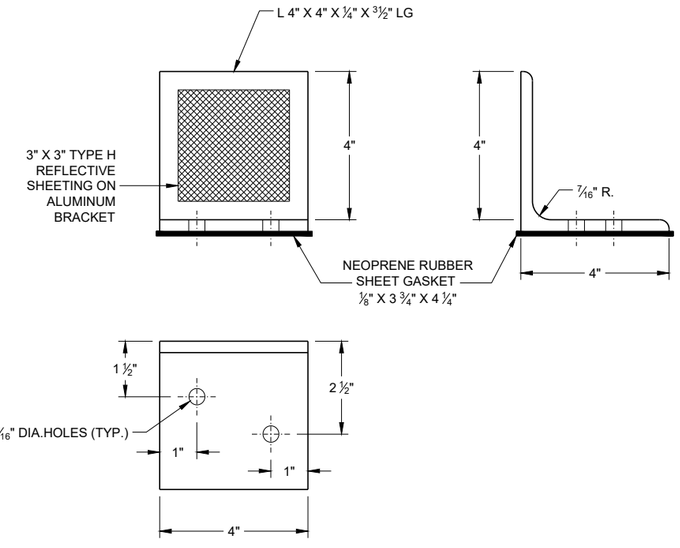


SIDE VIEW
TO RIGHT OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR BARRIER WALL DELINEATOR MOUNTED ON CONCRETE BARRIERS



BARRIER WALL DELINEATOR MOUNTING DETAIL



BARRIER WALL DELINEATOR

REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3

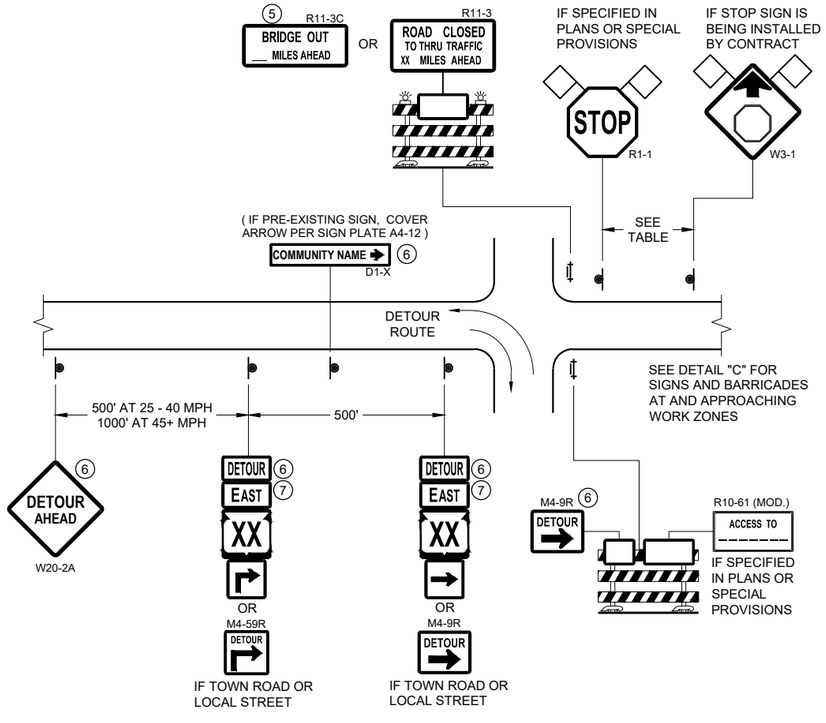
BARRIER WALL DELINEATOR WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER
FHWA

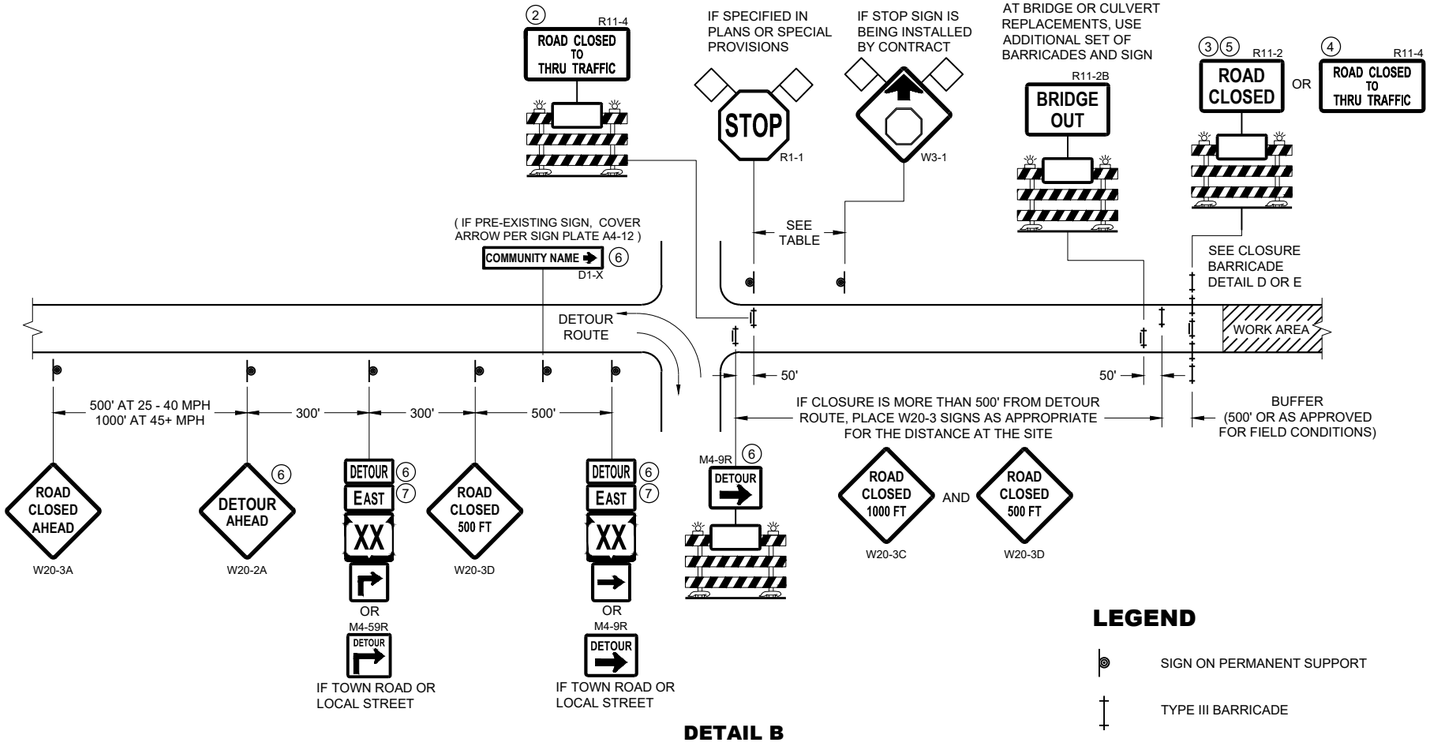
6

SDD 15A04 - 07b



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



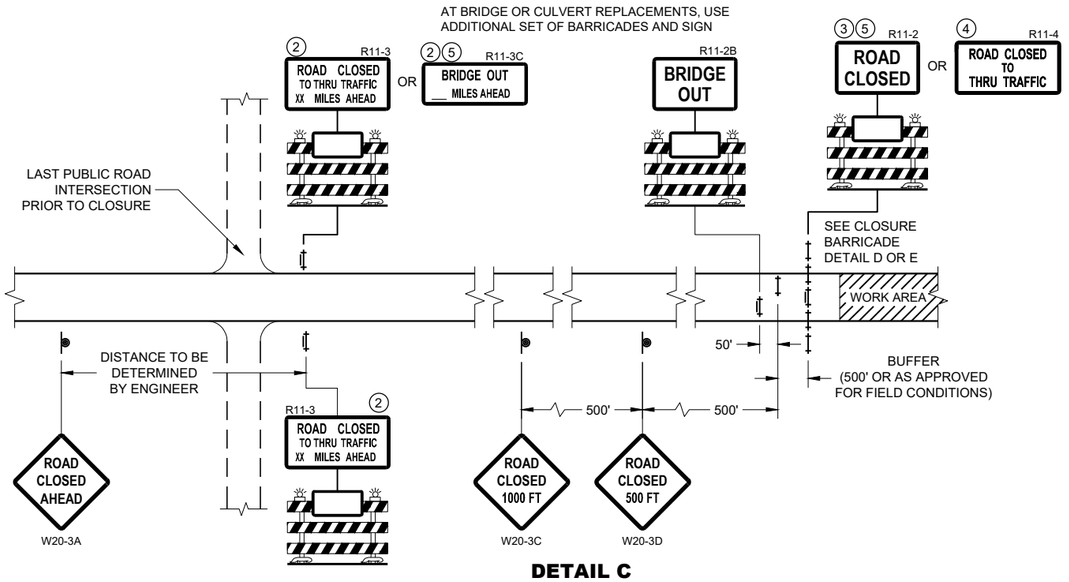
DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

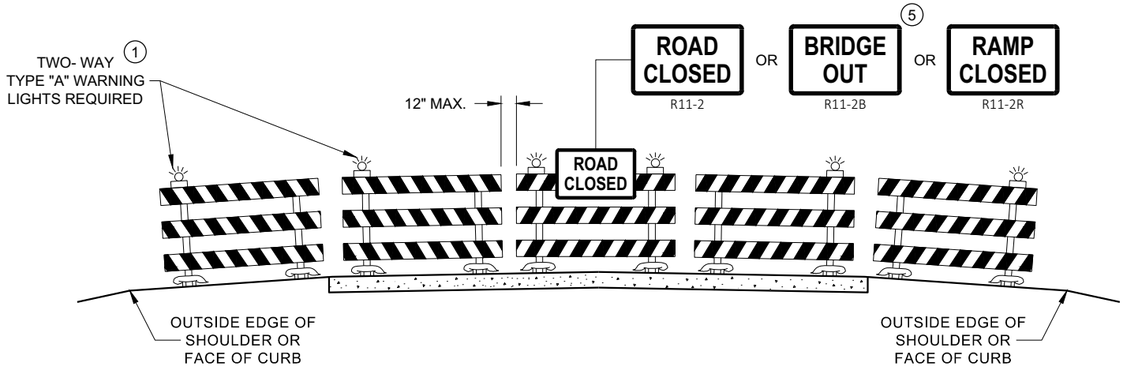
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

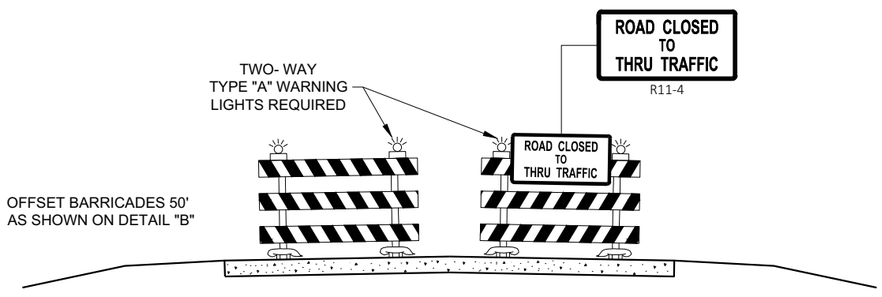
6

SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 08b

6

SDD 15C02 - 08b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4; XX — M1 - 6; COUNTY X — M1 - 5A
- M05 - 1; M06 - 1; M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

M4-8a *
END DETOUR WEST XX

DETOUR EAST XX *

D1-X *
COMMUNITY NAME
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST WEST XX XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L * DETOUR ** IF TOWN ROAD OR LOCAL STREET

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

MATCH POINT

* M4-59L ** DETOUR OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X * COMMUNITY NAME
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

500'

M4-9L ** DETOUR OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX

DETOUR WEST XX OR M4-9R DETOUR ** IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * OR M4-59R * DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X * COMMUNITY NAME
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

500'

DETOUR EAST XX DETOUR EAST XX DETOUR EAST XX *

D1-X * COMMUNITY NAME
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

EAST XX M3-X 24" X 12" M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

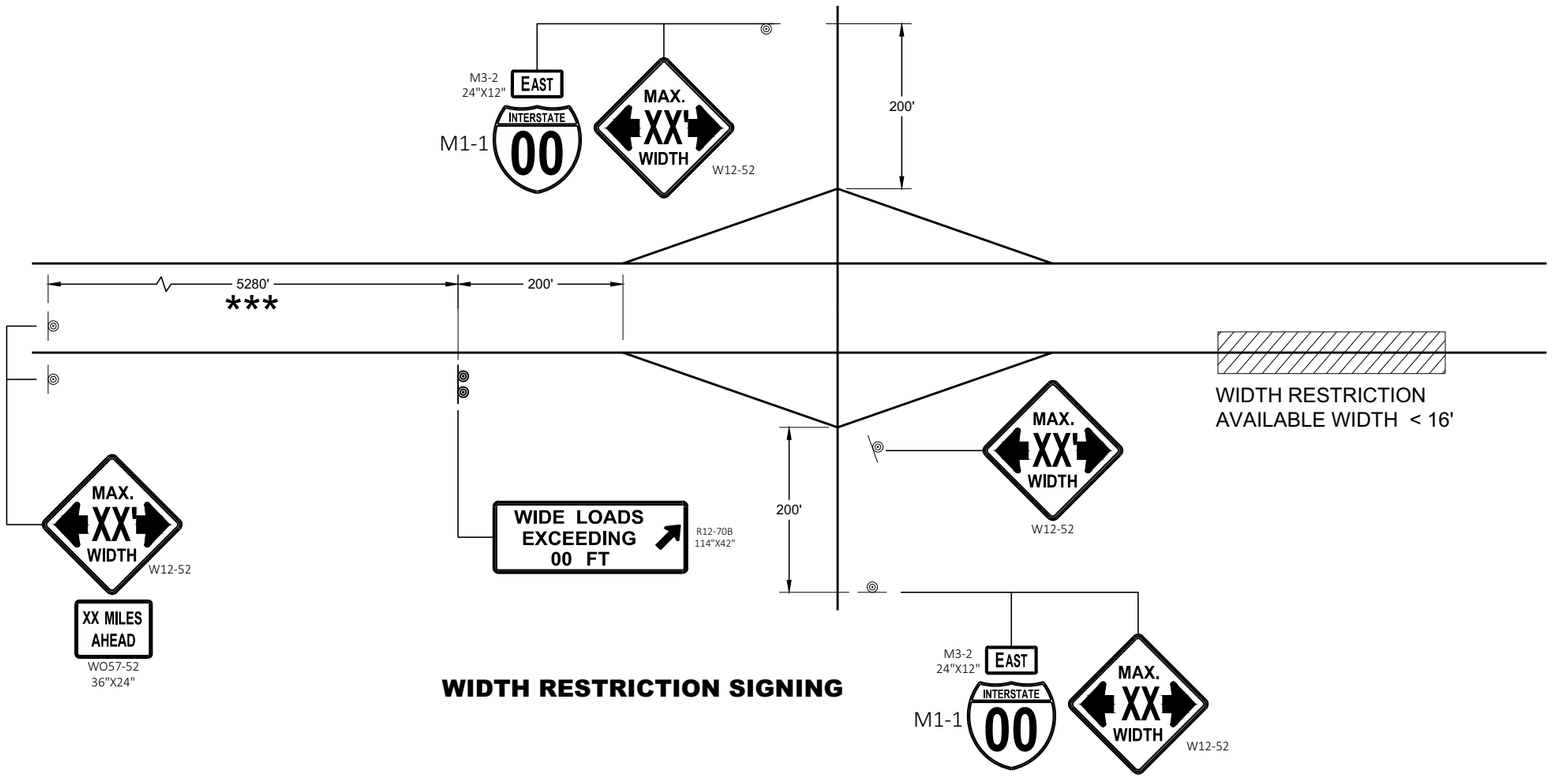
APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 08c

6



WIDTH RESTRICTION SIGNING

LEGEND

◎ SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

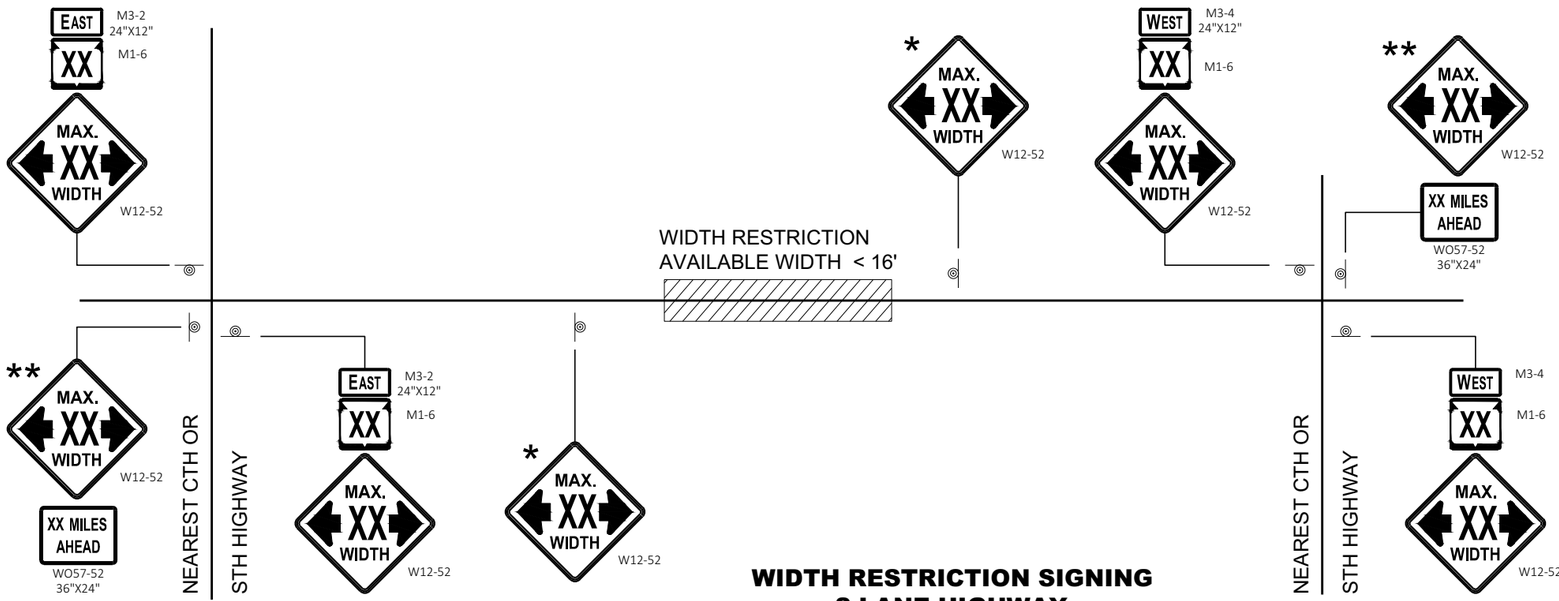
* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

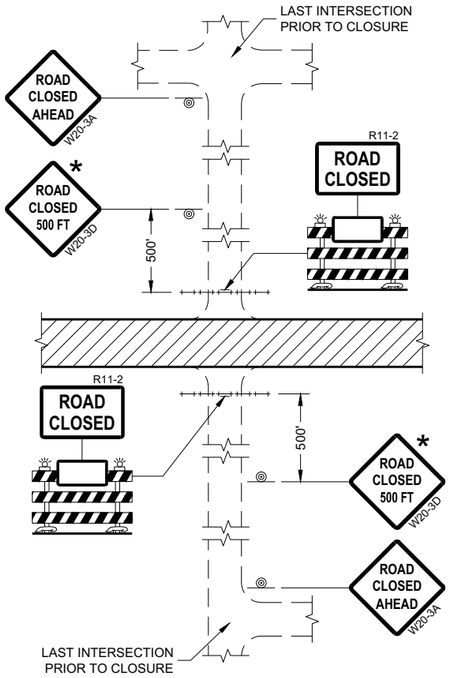
APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 496

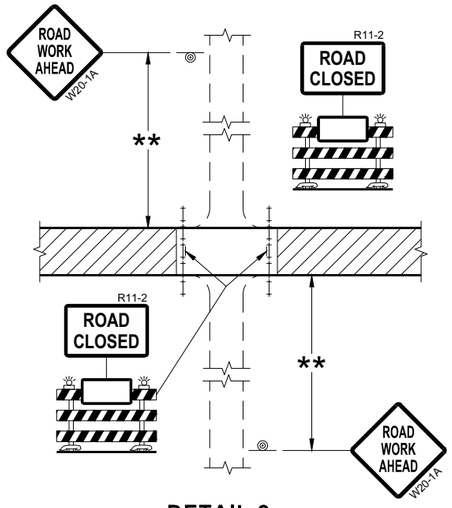
FHWA

6

SDD 15C02 - 08f



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

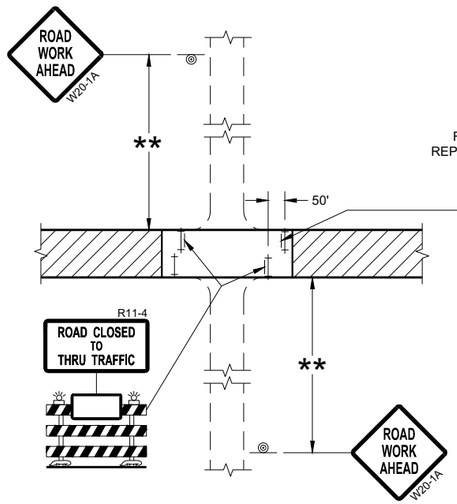
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

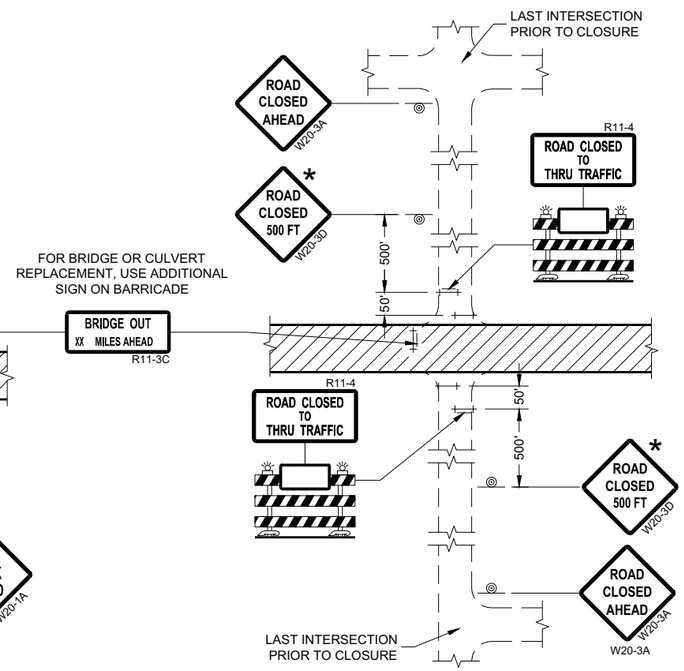
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

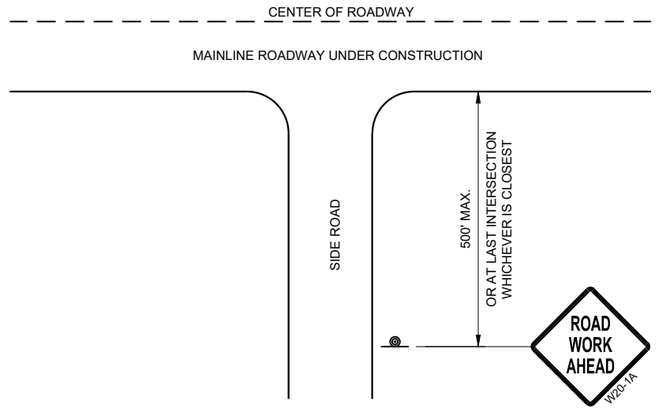
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



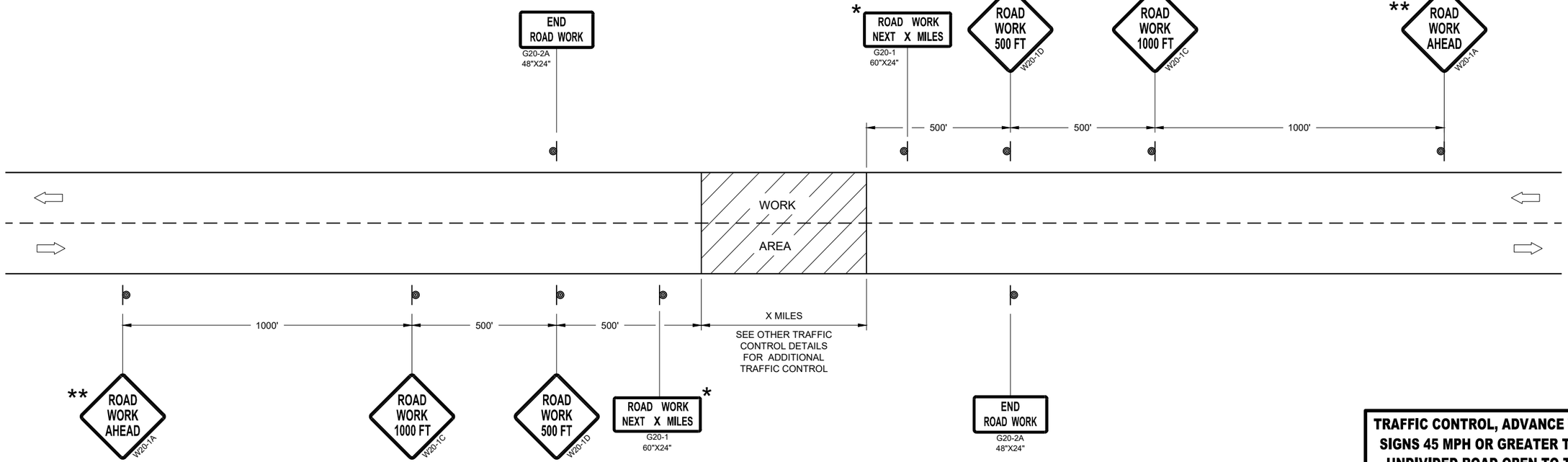
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

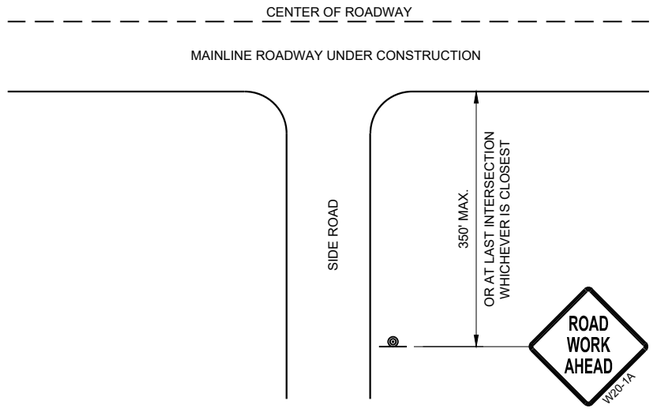
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



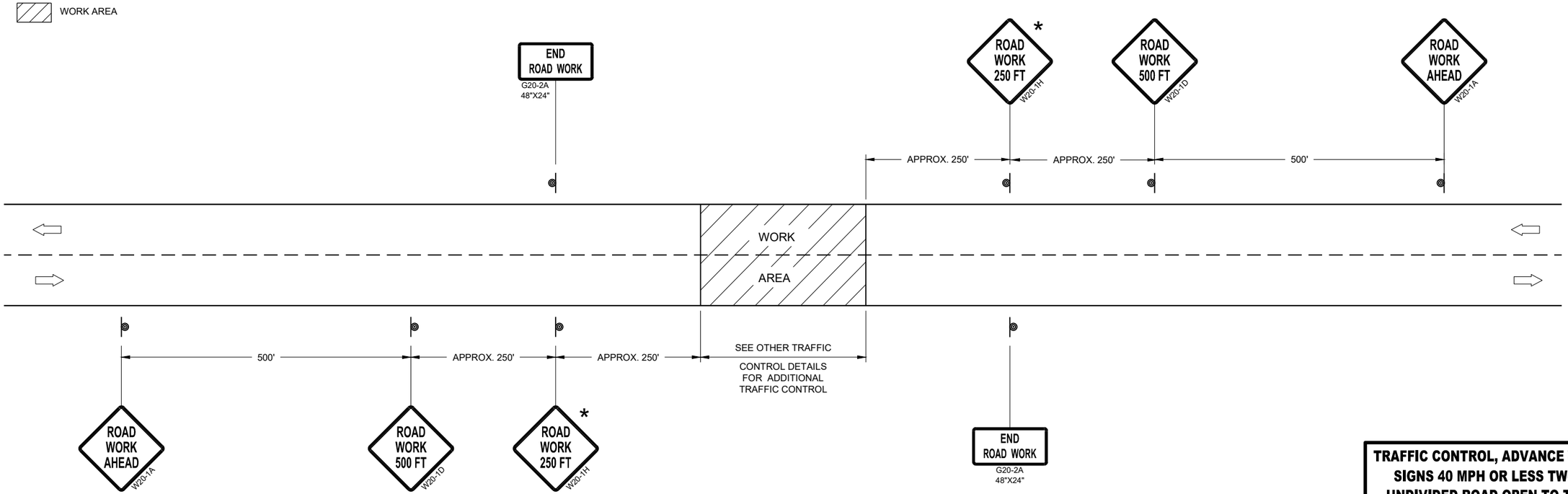
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

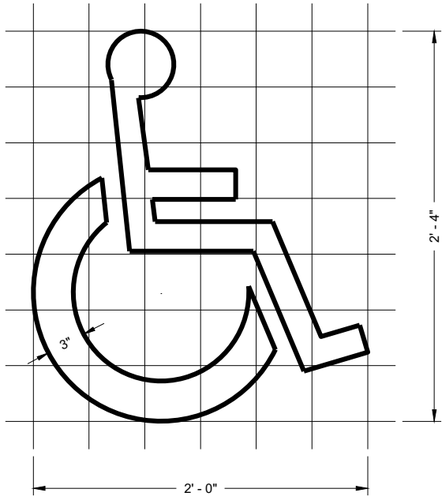
FHWA

6

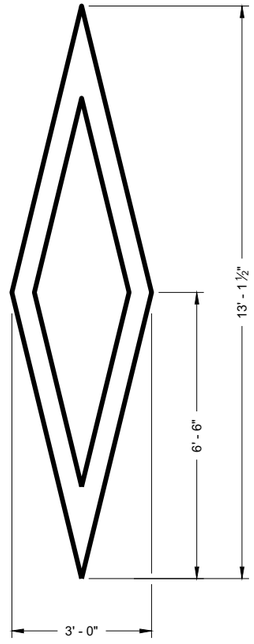
SDD 15C05 - 05

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07 - 15a

SDD 15C07 - 15a

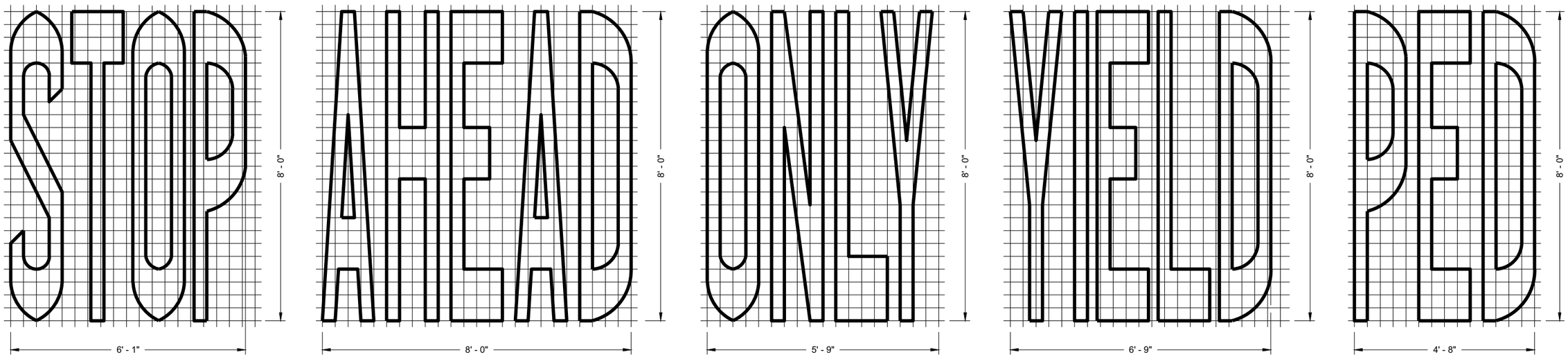
PAVEMENT MARKING SYMBOLS

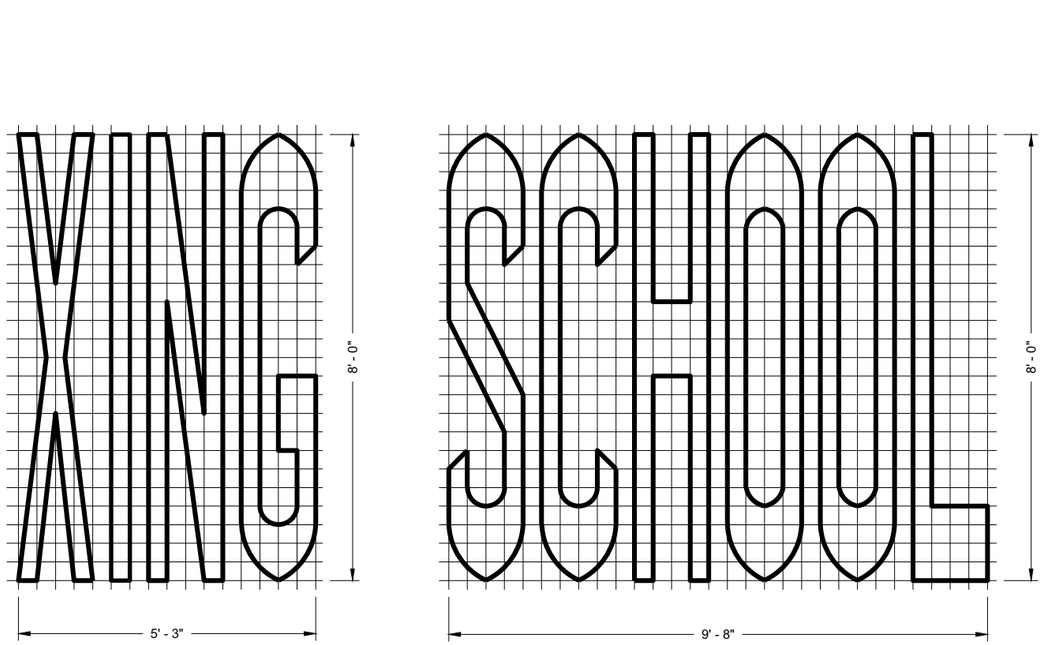
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

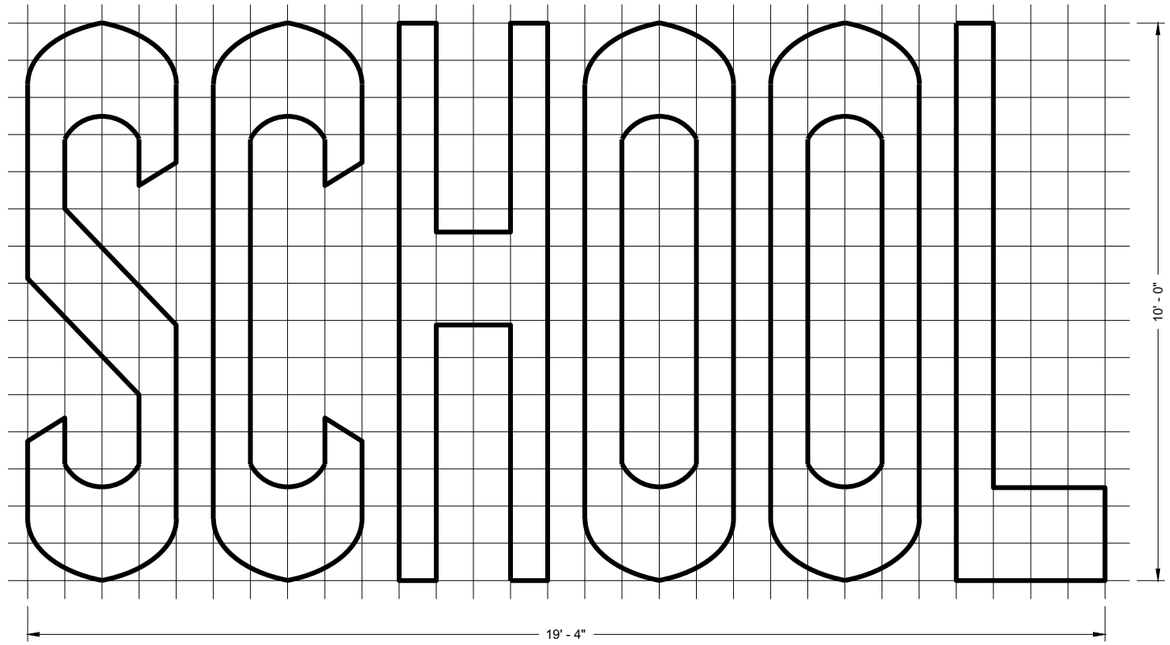
/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA





SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

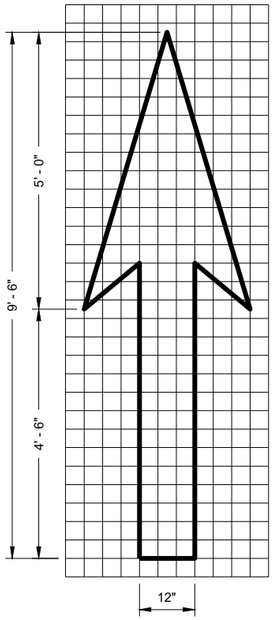
SDD 15C07 - 15b

6

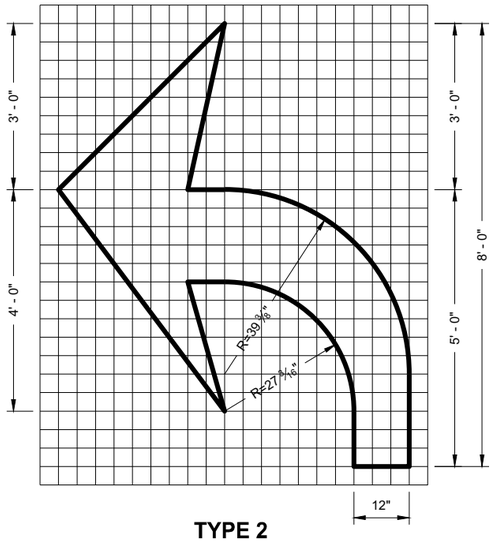
SDD 15C07 - 15b

GENERAL NOTES

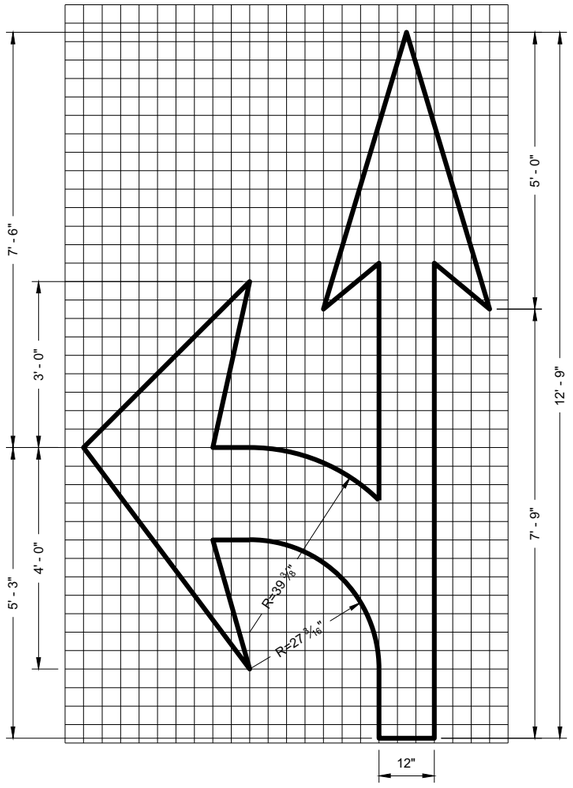
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



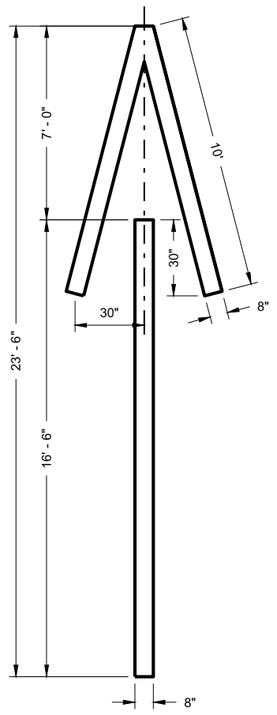
TYPE 1



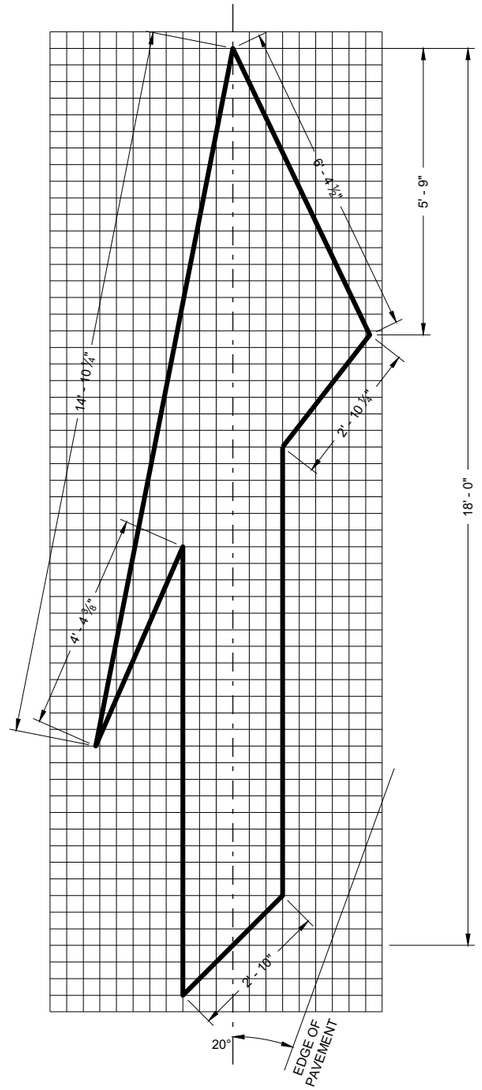
TYPE 2



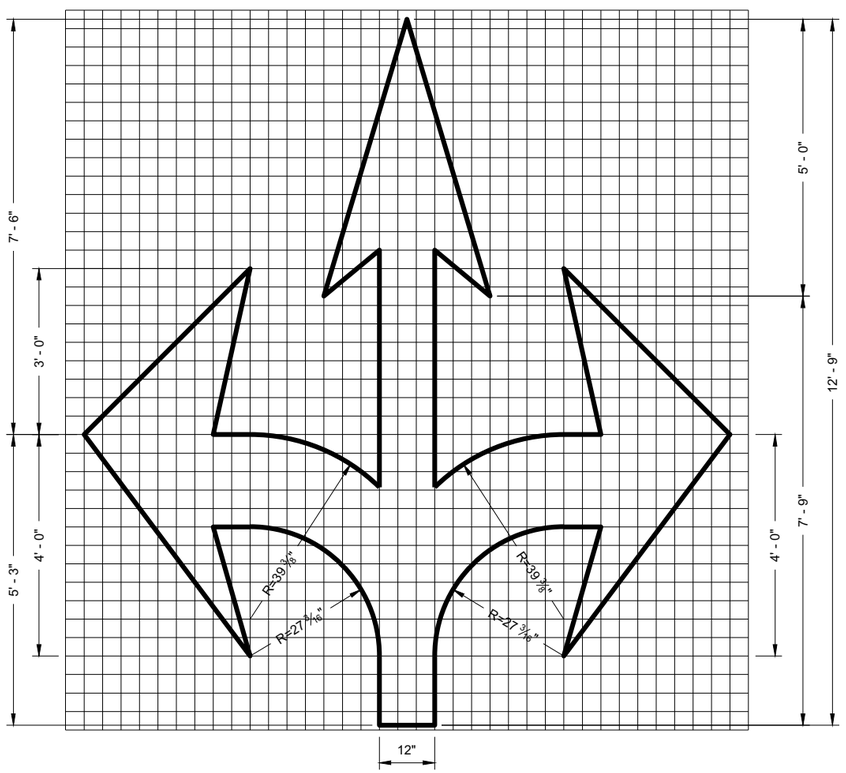
TYPE 3



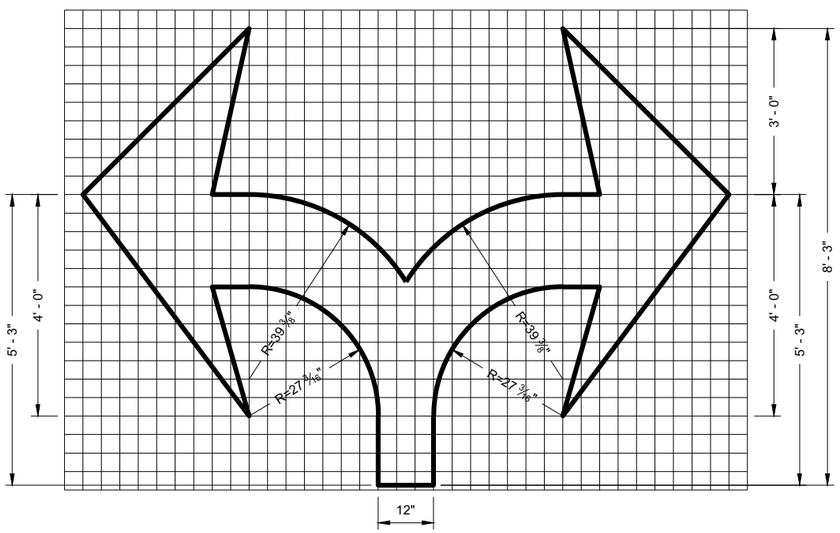
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

502

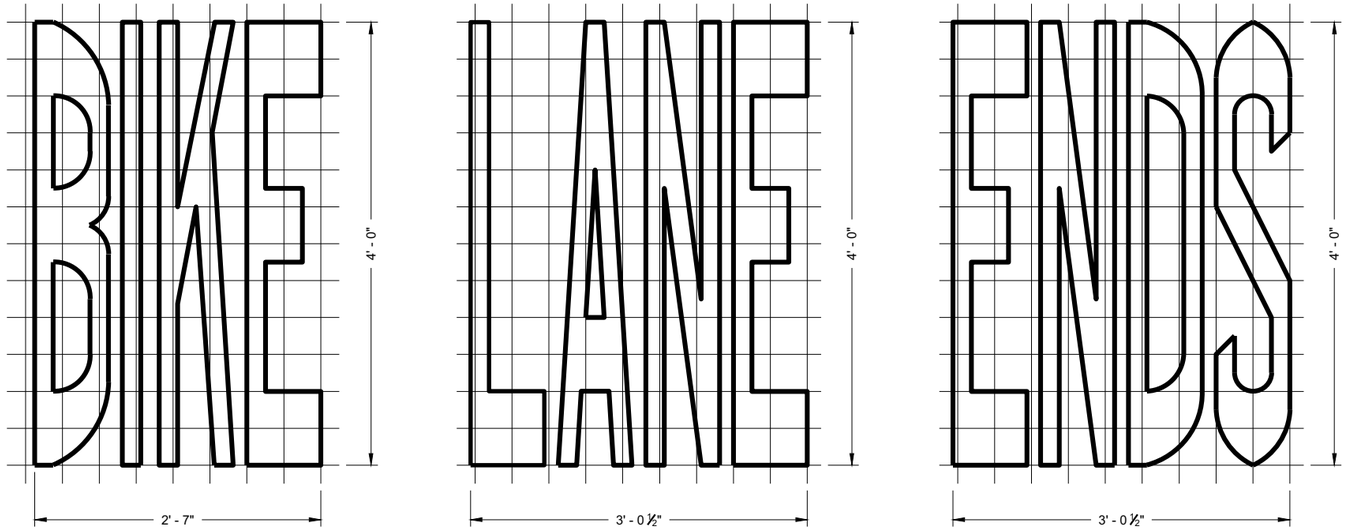
6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

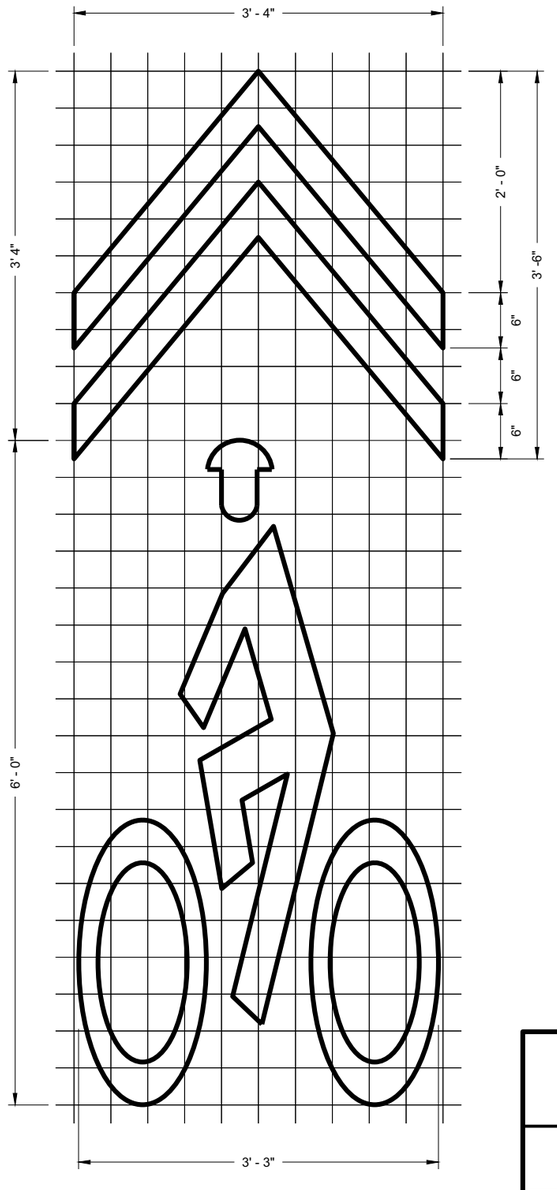
SDD 15C7-e Pavement Marking For Bike Lanes

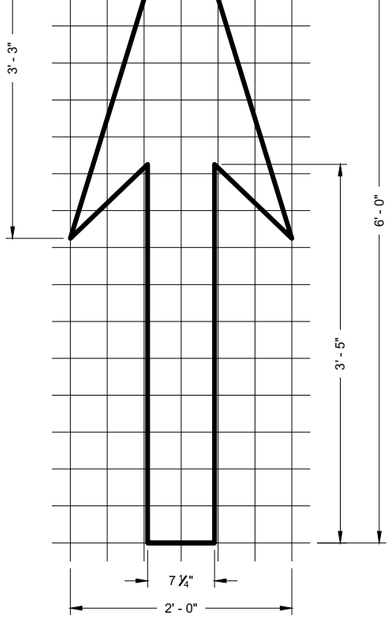


BIKE LANE WORDS

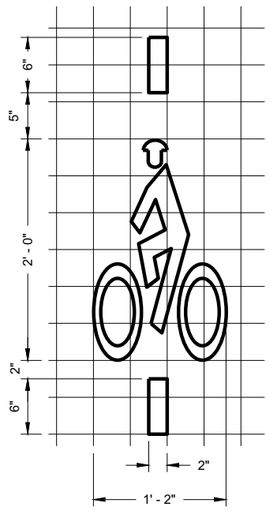
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

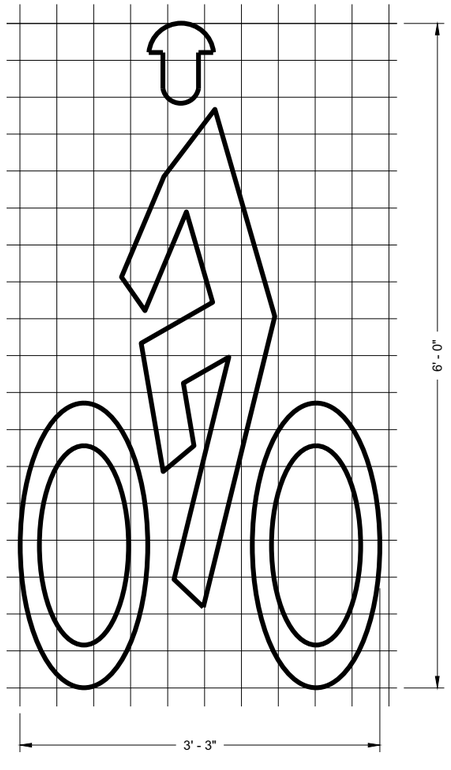




BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C07 - 15e

6

SDD15C07 - 15e

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

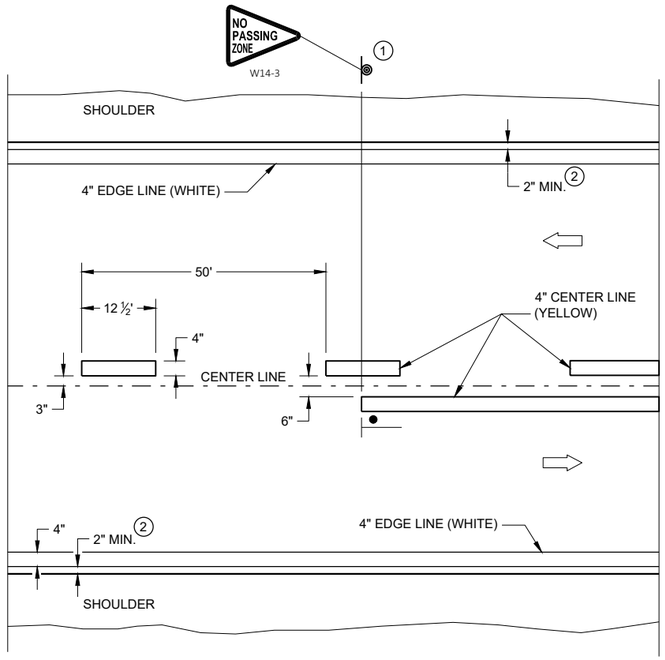
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

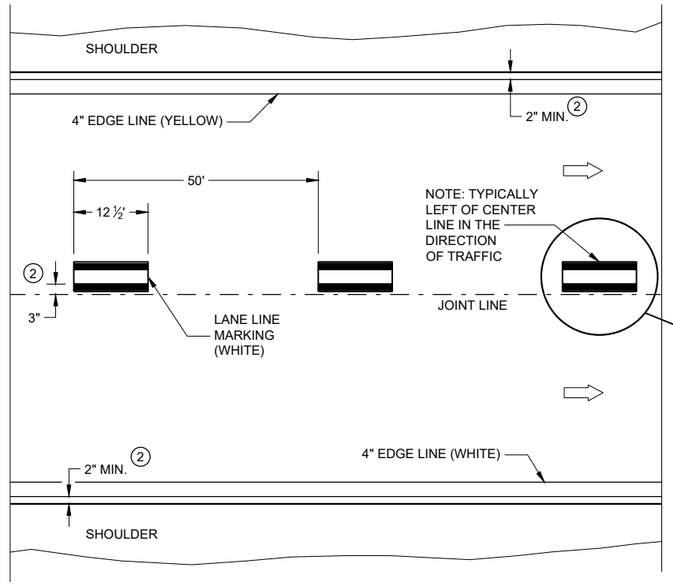
"T" MARKING

SIGN ON PERMANENT SUPPORT

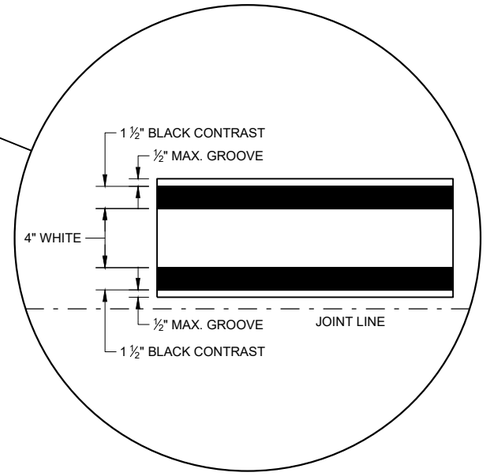
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Jeannie Silver
STATEWIDE SIGNING AND M
ENGINEER

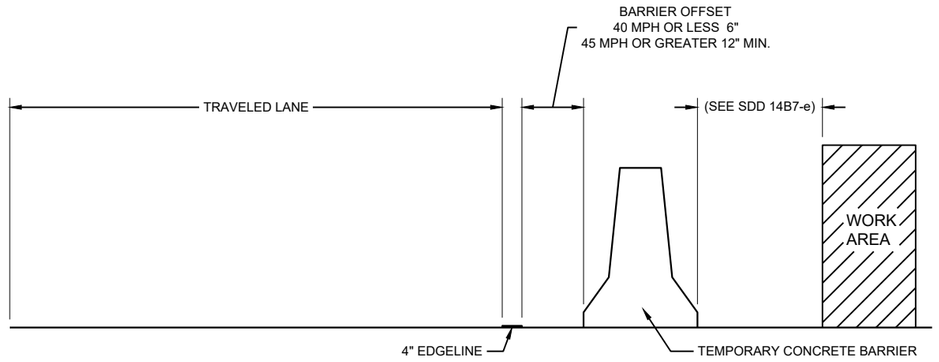
FHWA

6

SDD 15C08 - 22a

6

SDD 15C08 - 22a



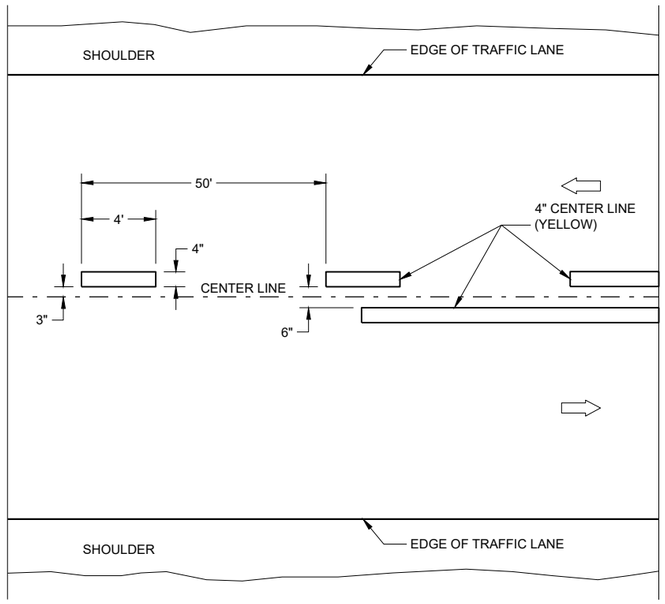
TEMPORARY BARRIER OFFSET FROM EDGELINE

GENERAL NOTES

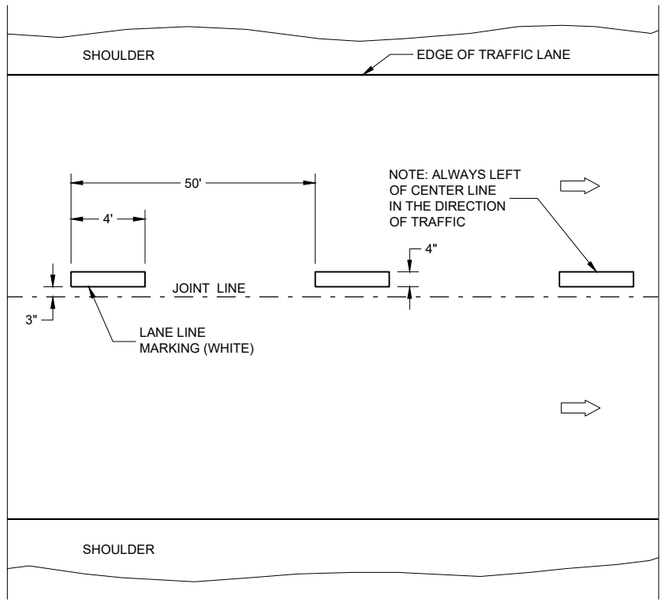
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

LEGEND

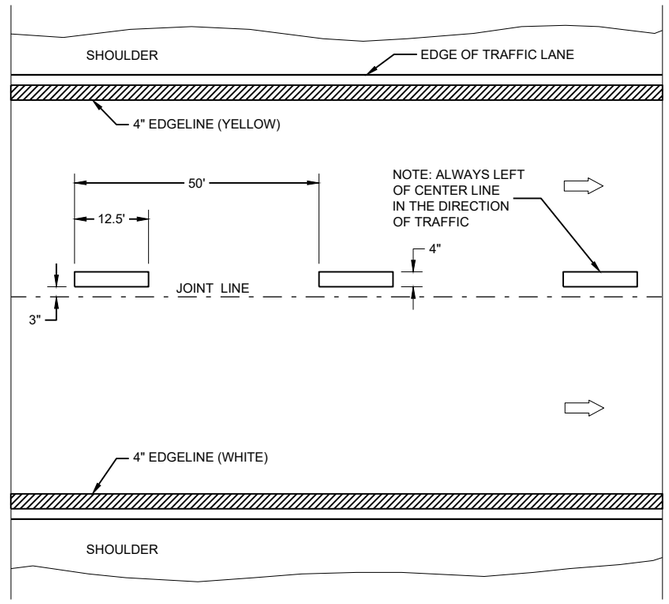
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022
DATE

/S/ Jeannie Silver
STATEWIDE SIGNING AND M
ENGINEER

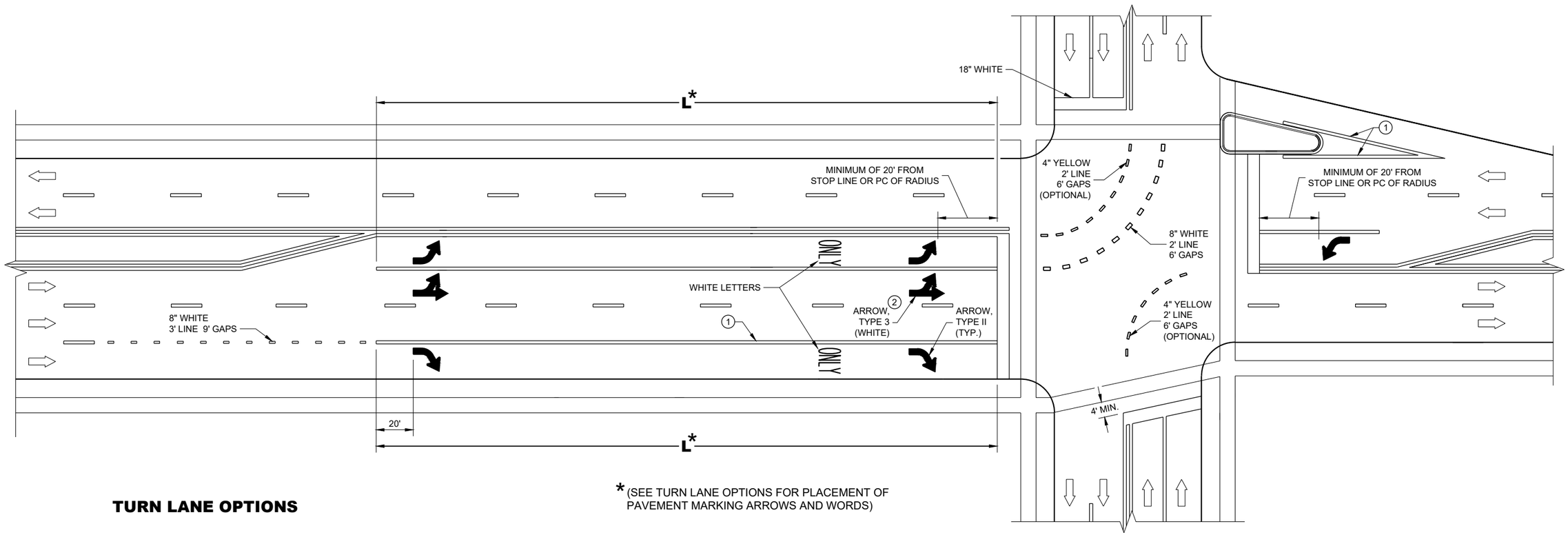
FHWA

6

SDD 15C08 - 22b

6

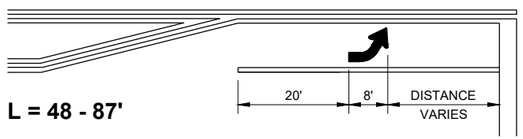
SDD 15C08 - 22b



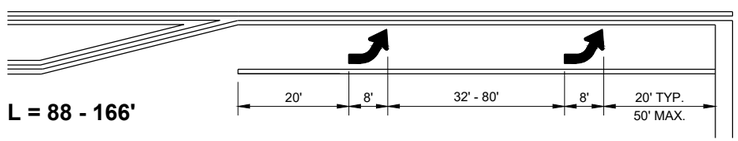
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

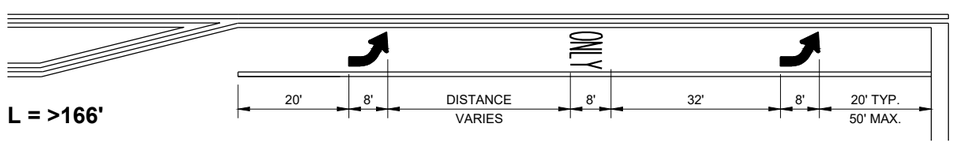
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

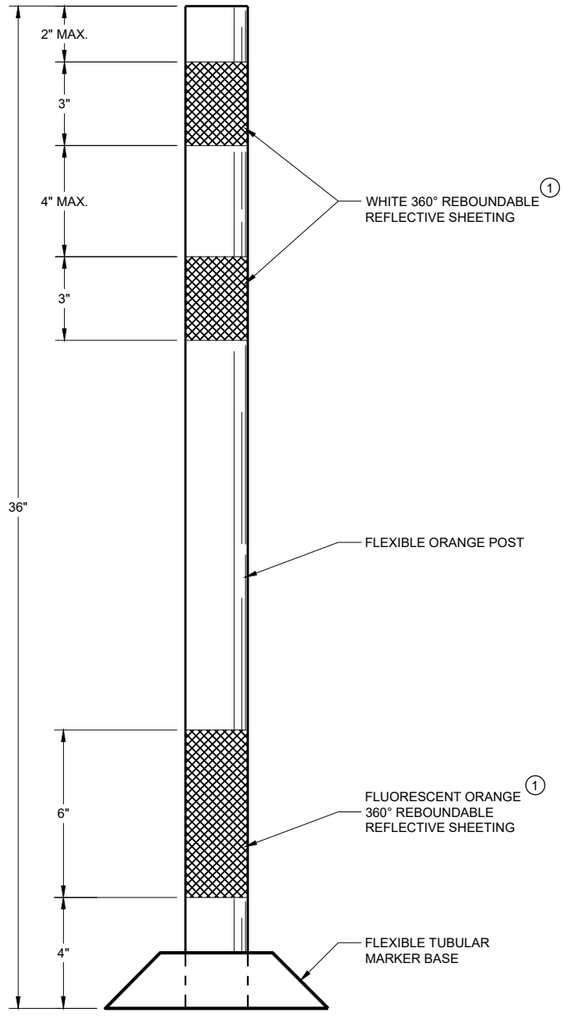
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 506

6

SDD 15C08 - 22d



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

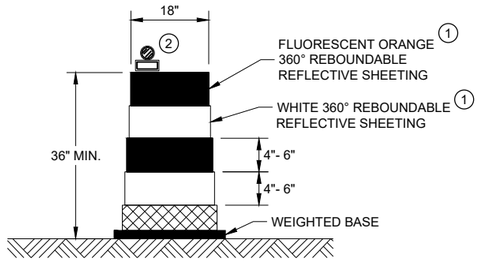
FHWA

6

SDD 15C11 - 10a

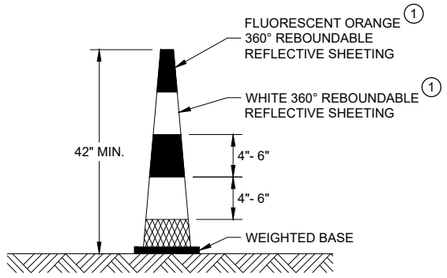
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

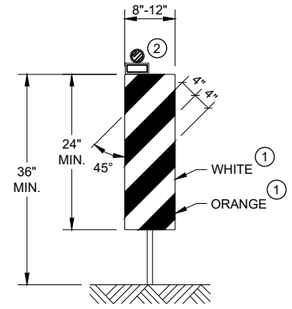
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

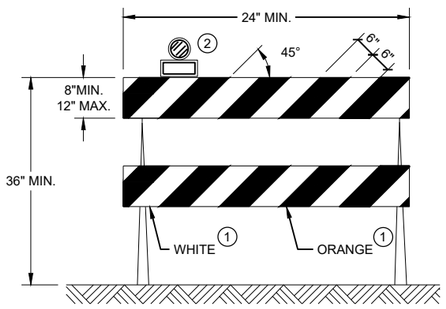
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



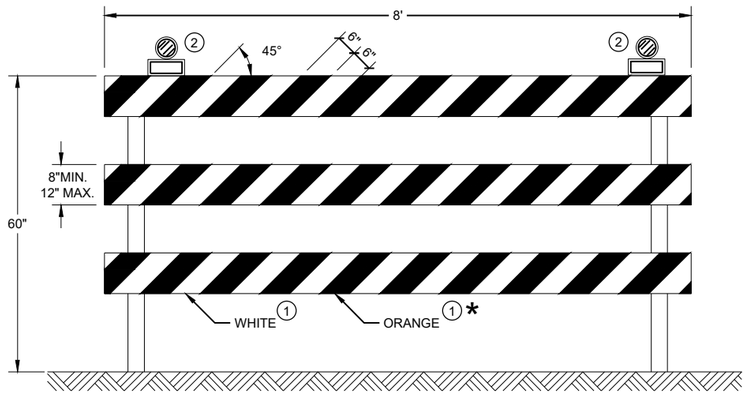
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
508
FHWA

6

SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

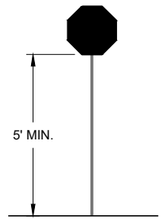
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

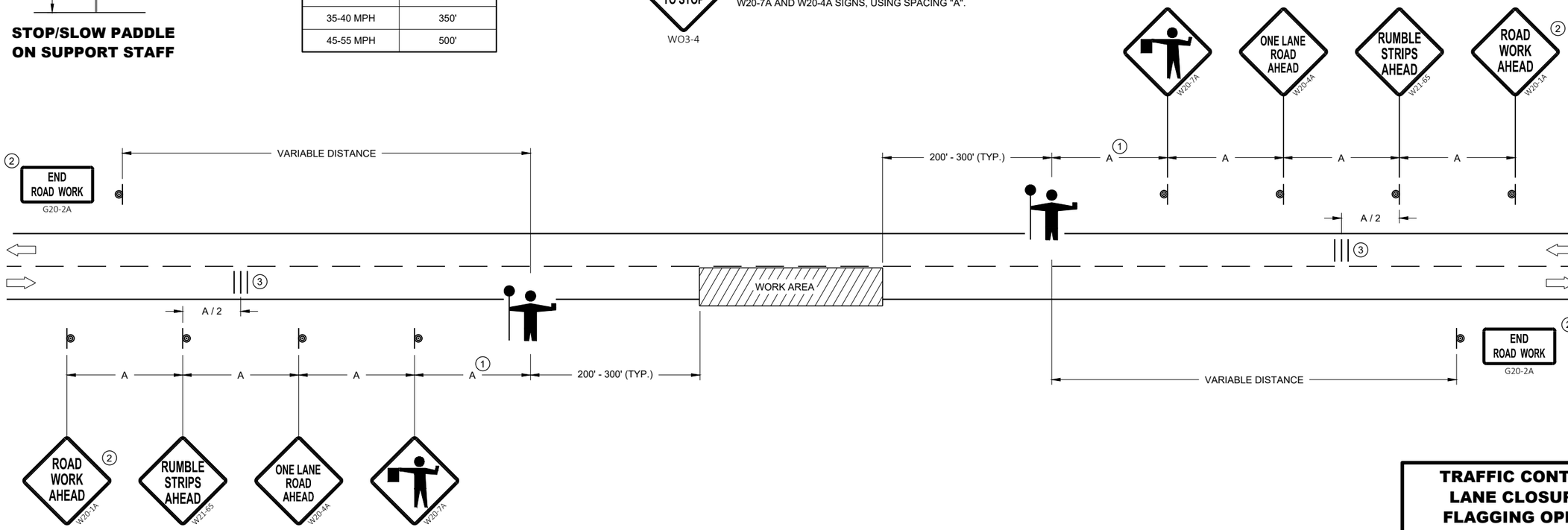
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

509

6

SDD 15C12 - 09a

6

SDD 15C12 - 09a

GENERAL NOTES

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL CONE 42-INCH

TRAFFIC CONTROL DRUM

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

AFAD — AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

(1) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(2) IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

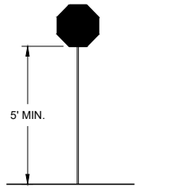
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

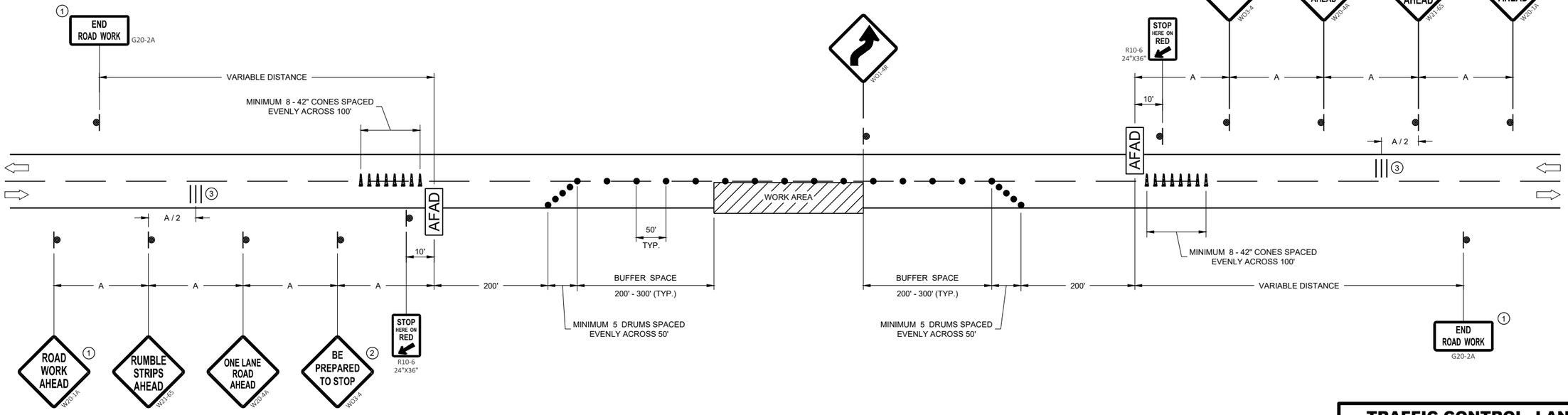
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



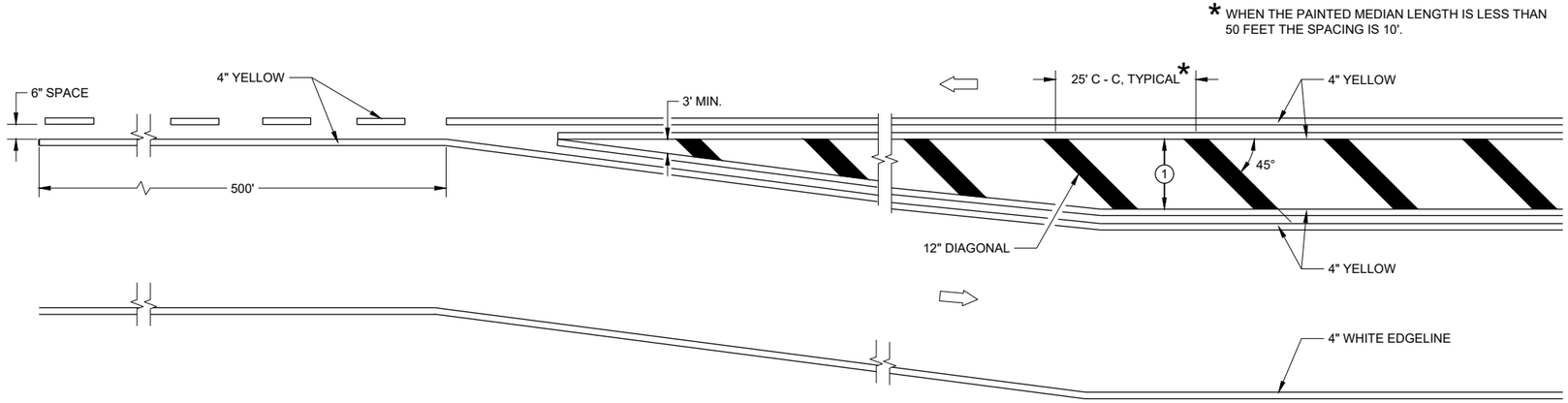
TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

SDD 15C12 - 09b

SDD 15C12 - 09b

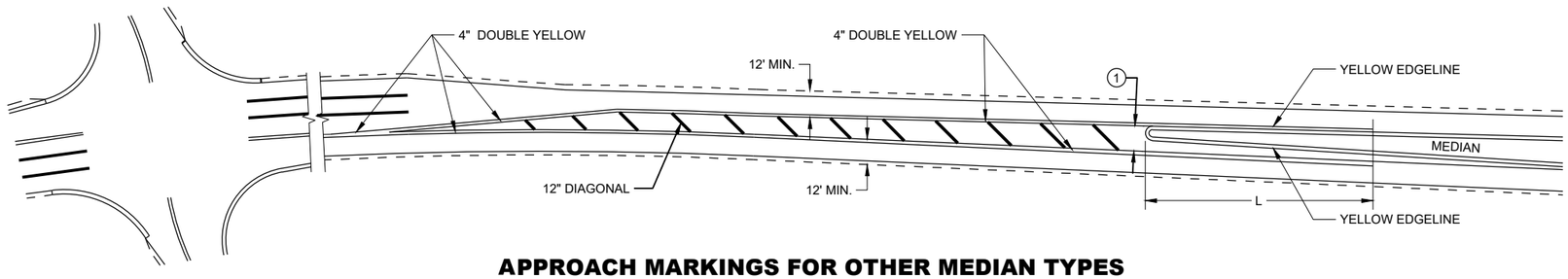


MEDIAN ISLAND DETAIL

GENERAL NOTES

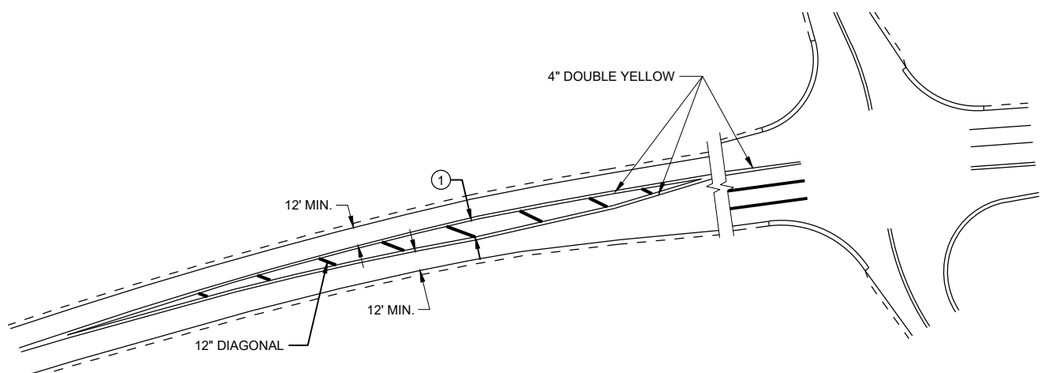
1. DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES

SPEED LIMIT	L
<35 MPH	5'
35> MPH	50'



NON-APPROACH MARKINGS

6

SDD 15C18 - 07a

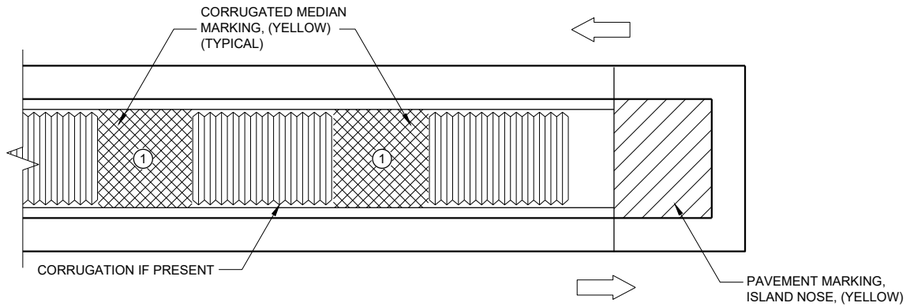
MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

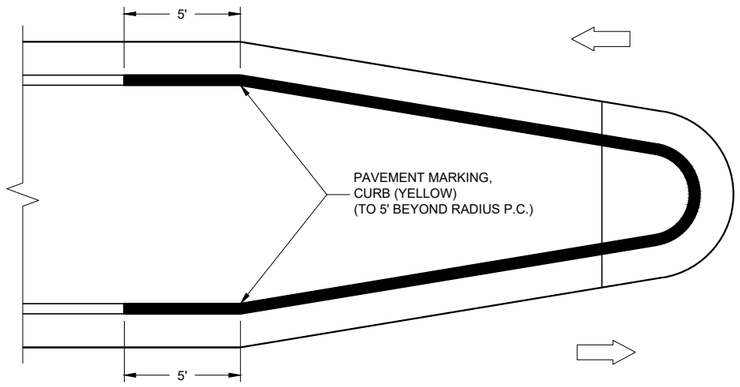
APPROVED
November 2022 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MAF ENGINEER
FHWA

6

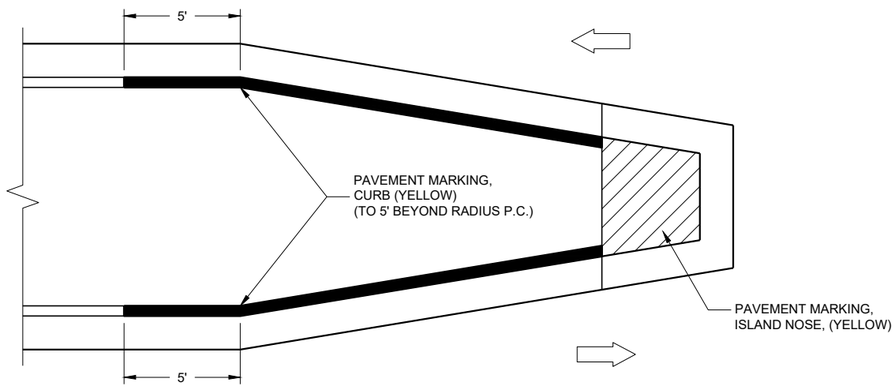
SDD 15C18 - 07a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

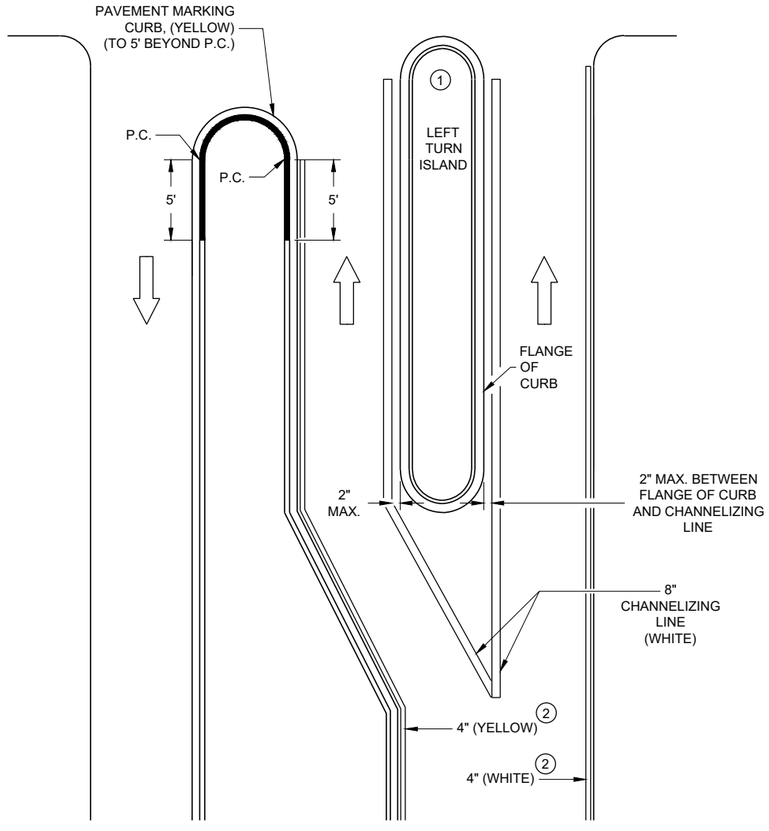
APPROVED
November 2022
DATE
/S/ Jeannie Silver
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD15C18 - 07b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

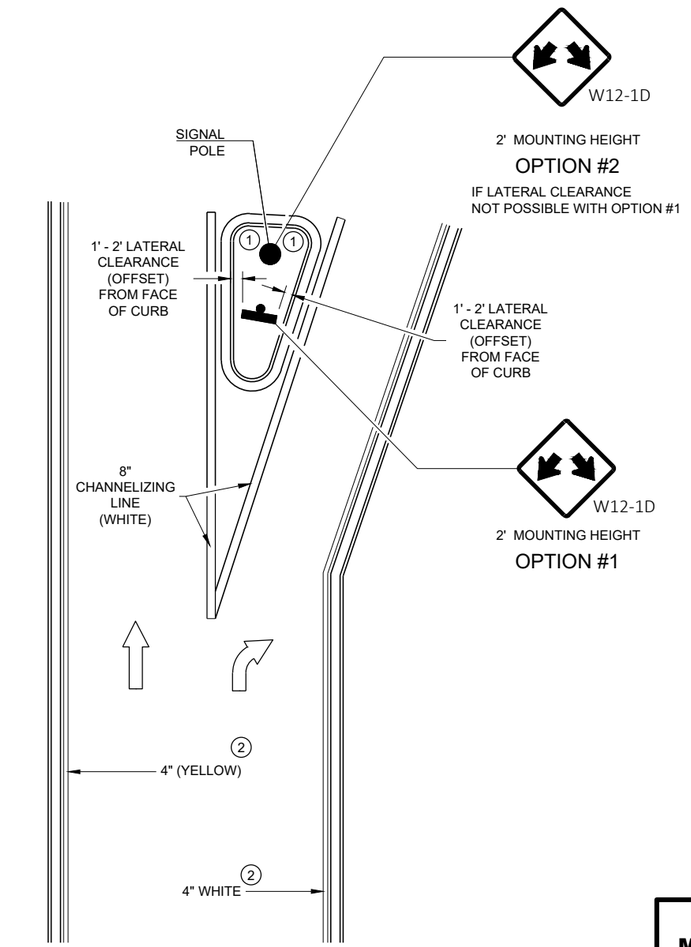
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2022
DATE

/S/ Jeannie Silver
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C18 - 07c

6

SDD 15C18 - 07c

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

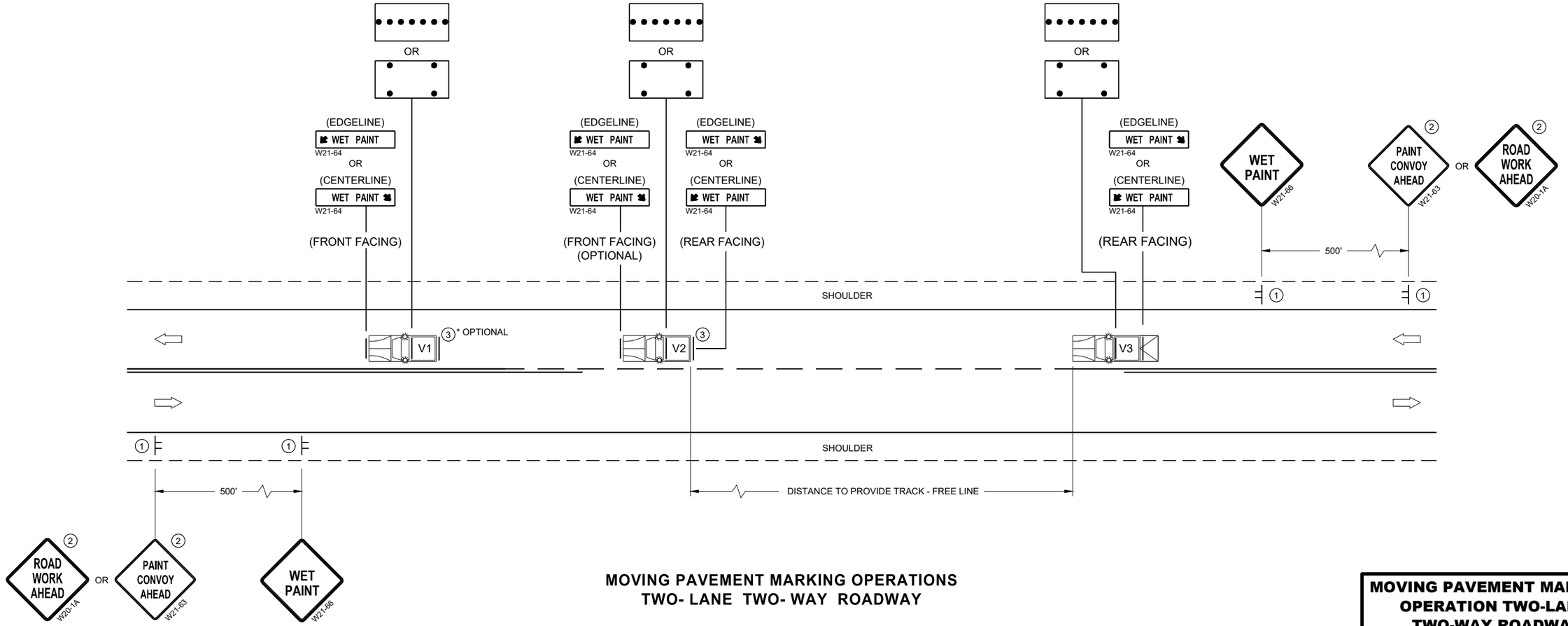
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

(3) V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS
TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023
DATE

/S/ Andrew I...
WORK ZONE EN

FHWA

SDD 15C19-08a

SDD 15C19-08a

LEGEND

V1 MARKING VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE

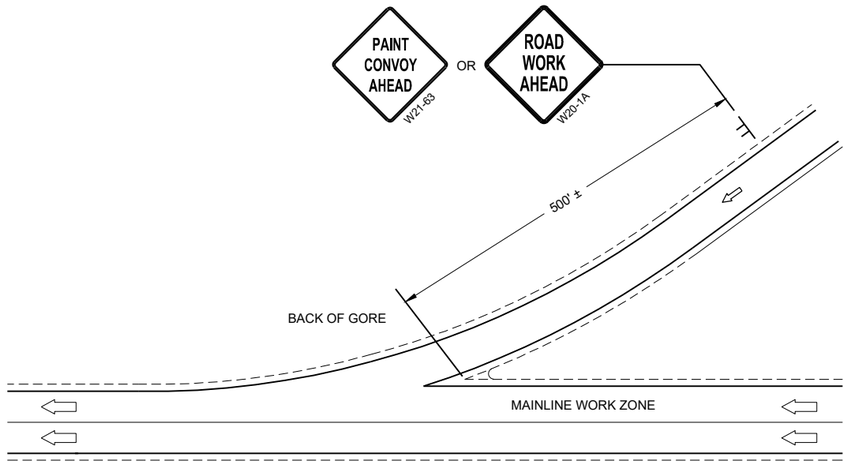
TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (MERGE)

FLASHING ARROW PANEL (CAUTION)



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

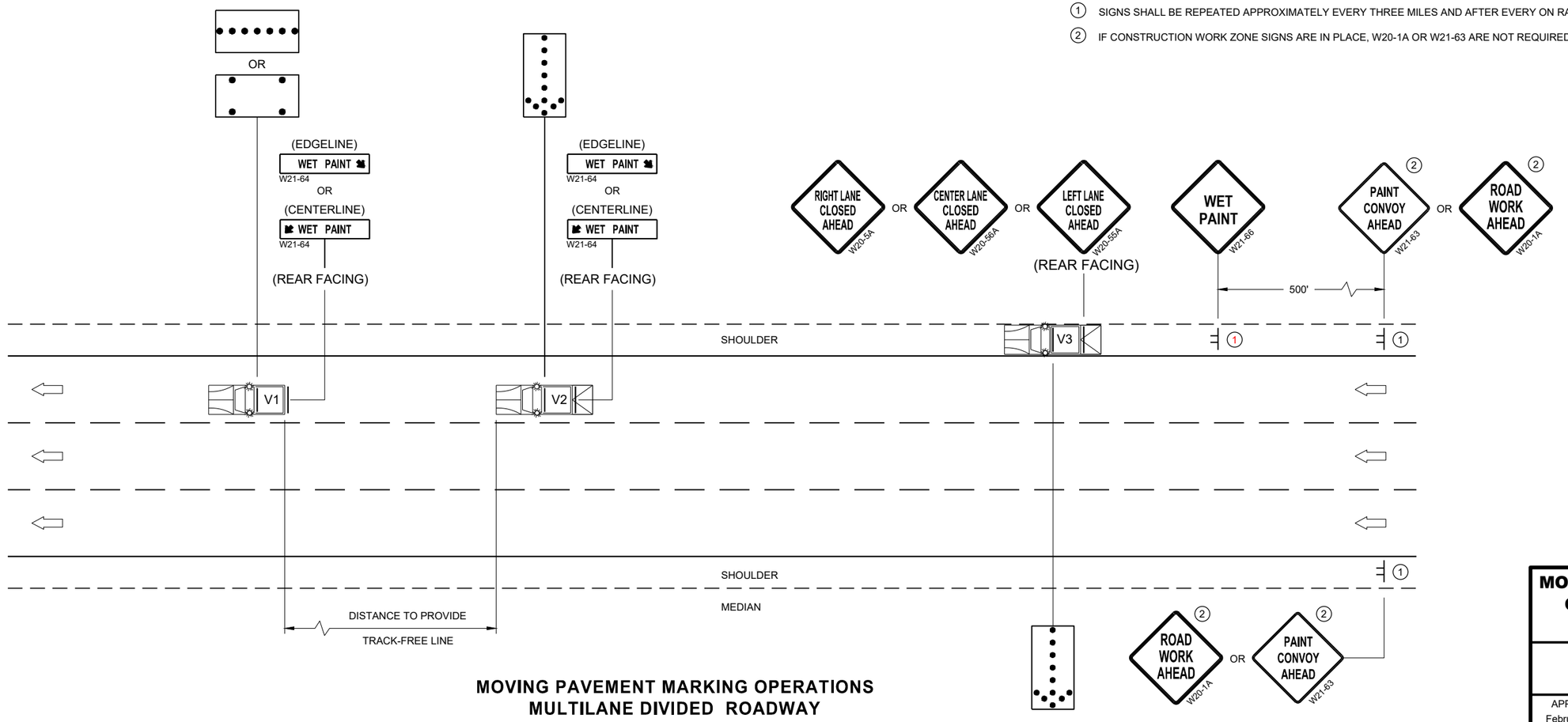
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023
DATE

/S/ Andrew [illegible]
WORK ZONE EN

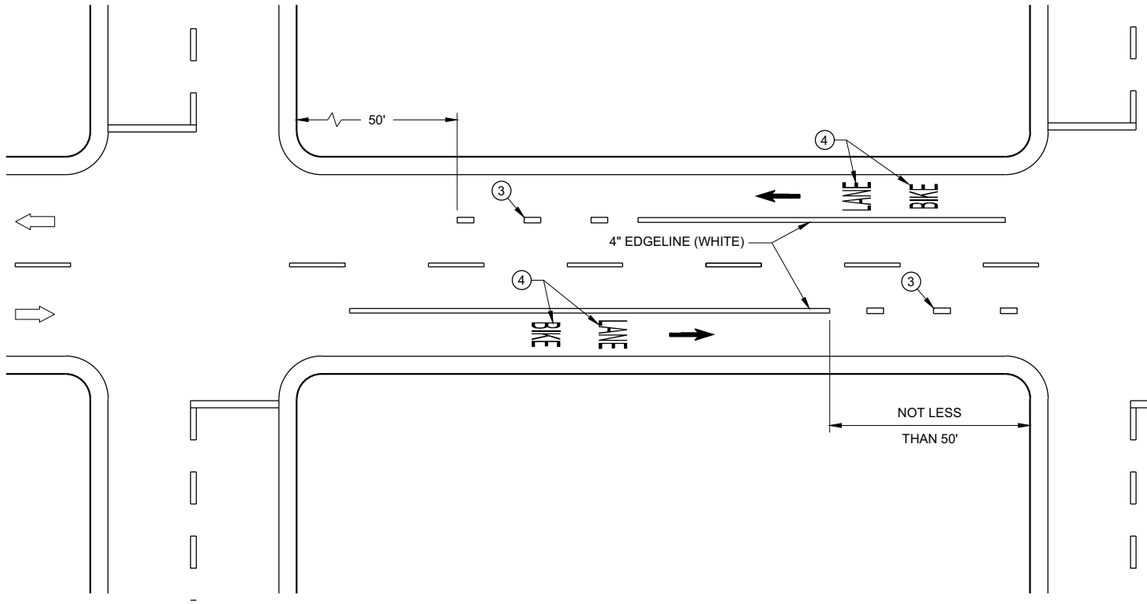
FHWA

6

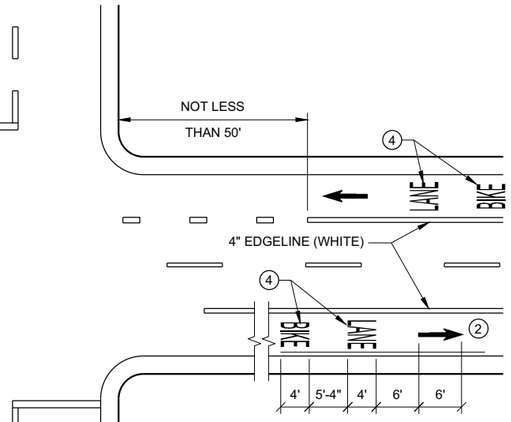
SDD 15C19-08c

6

SDD 15C19-08c



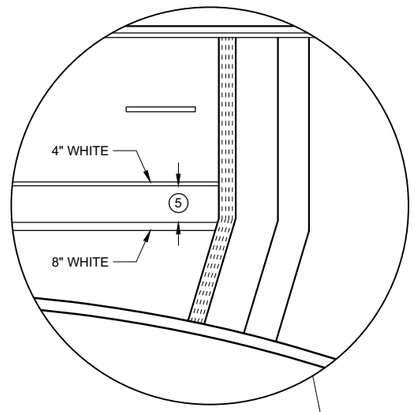
DESIGNATED BIKE LANE - NO PARKING



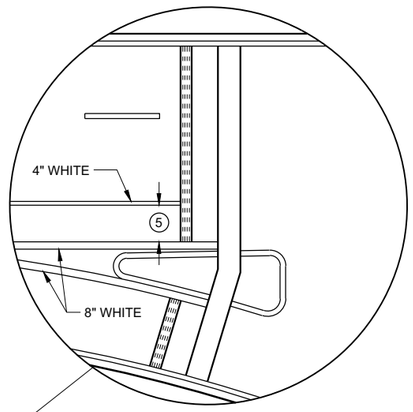
GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

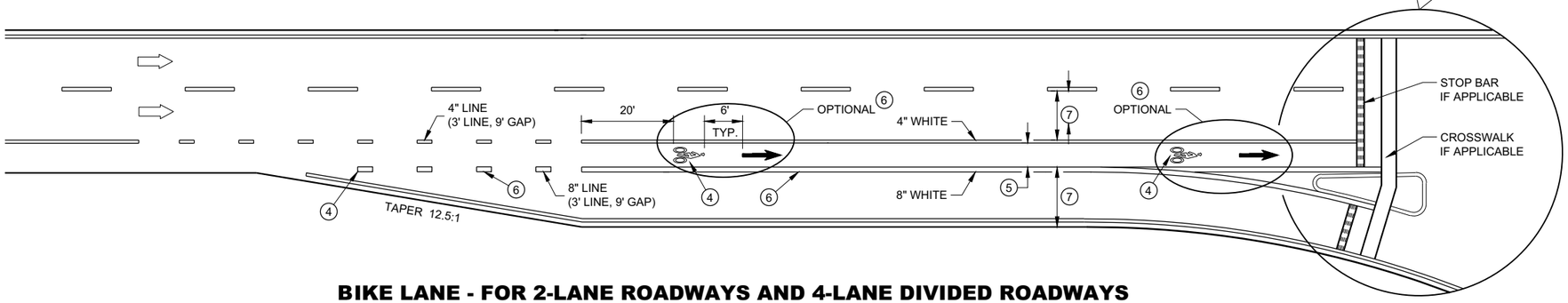
DIRECTION OF TRAFFIC



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

SDD 15C29 - 07a

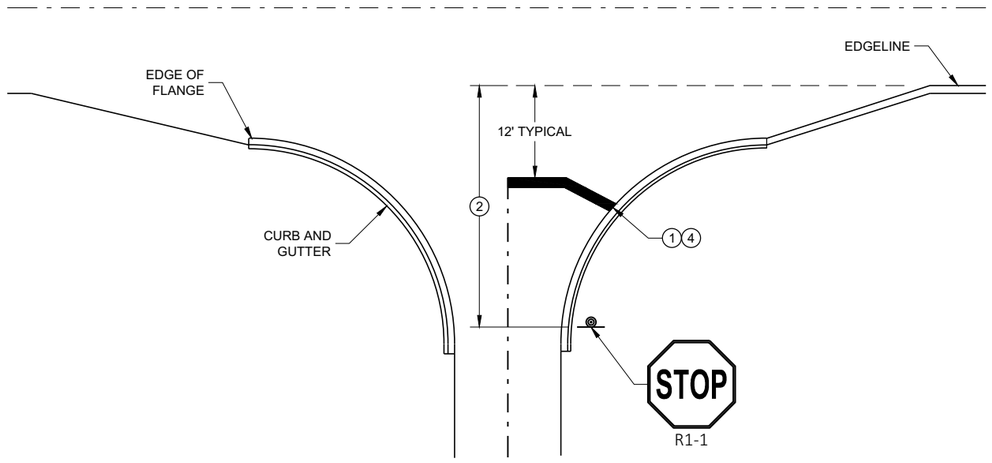
6

SDD 15C29 - 07a

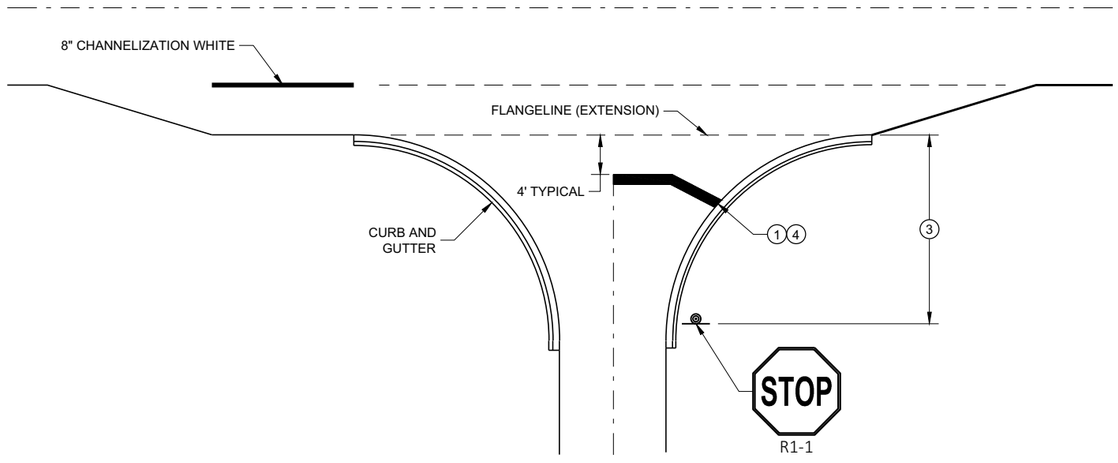
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

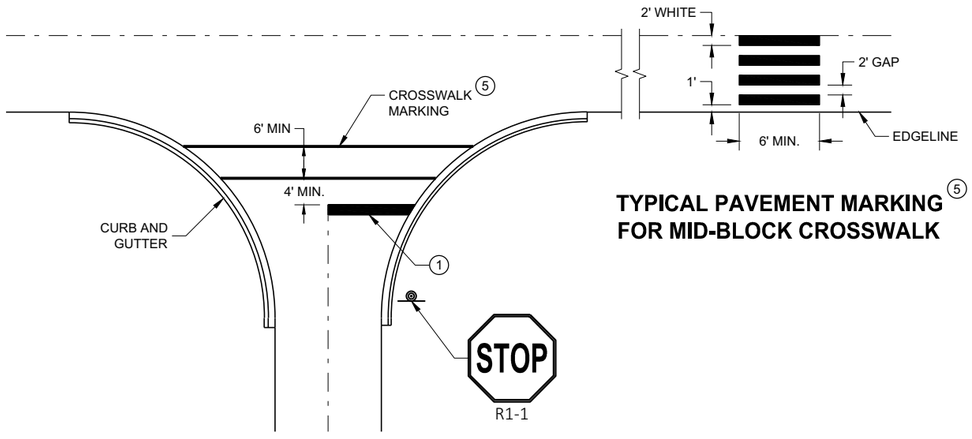
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

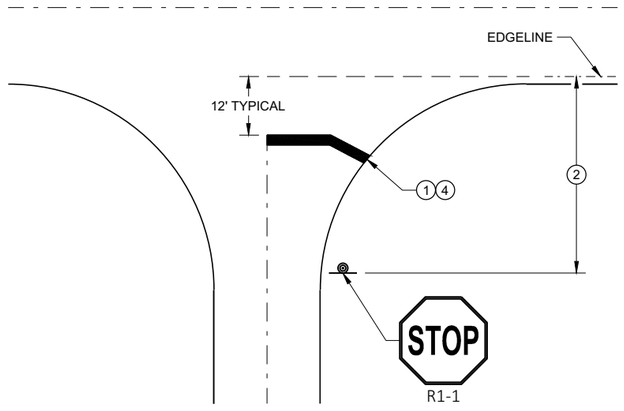


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C33 - 04

LEGEND

SIGN ON PERMANENT SUPPORT

DELINEATOR, FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50 FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING LINE, 4 INCH DOUBLE YELLOW.



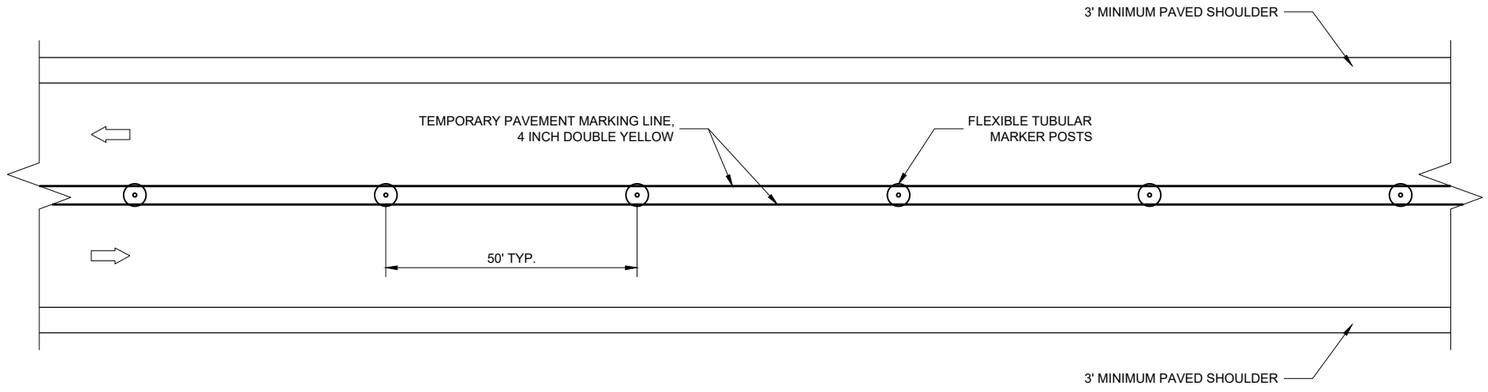
(1)



(2)

(1) THE WO6-3 AND WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND / OR 500 FEET BEYOND ANY SIDE ROAD. THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN THE SIGNS.

(2) CONVENTIONAL: 24" X 30"
FREEWAY AND EXPRESSWAY: 36" X 48"



TWO LANE, TWO WAY OPERATION

TRAFFIC CONTROL
TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

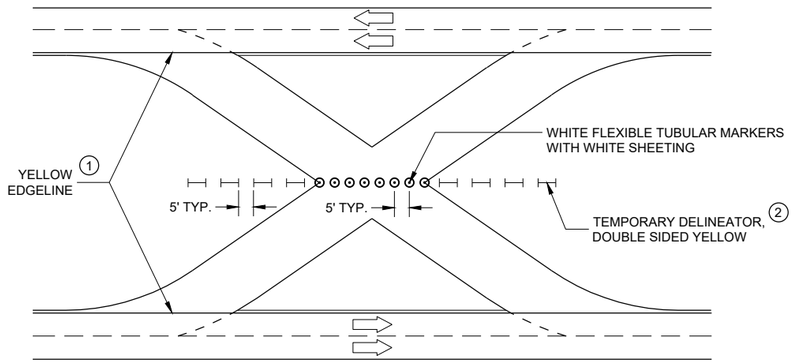
FHWA

6

SDD 15D06 - 05

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- DELINEATOR FLEXIBLE / TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- TYPE "A" WARNING LIGHT (FLASHING)
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK AREA



TRAFFIC CONTROL FOR CROSSOVER THAT IS NOT IN USE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

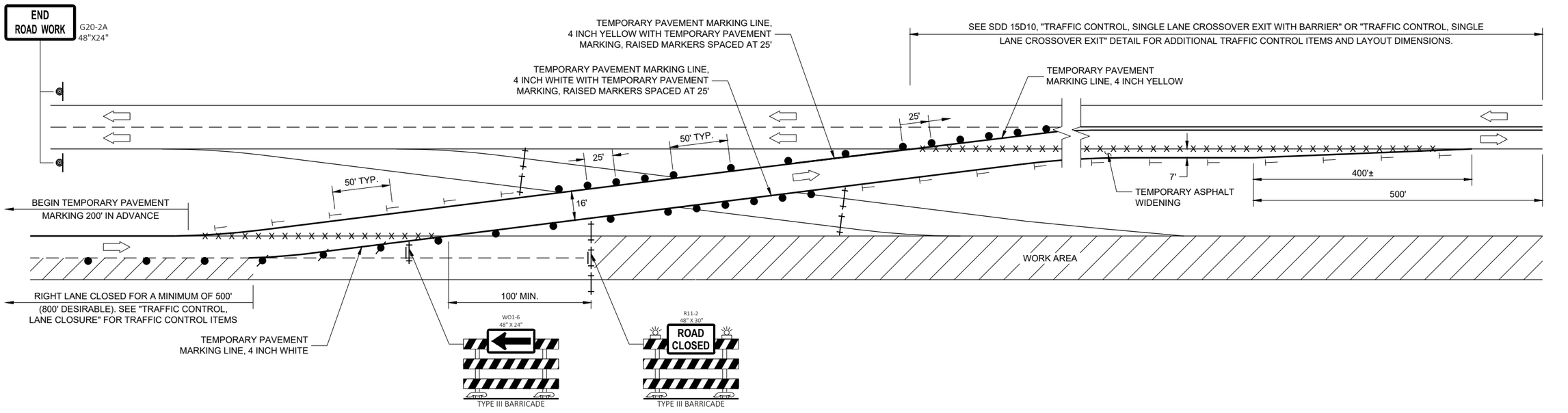
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

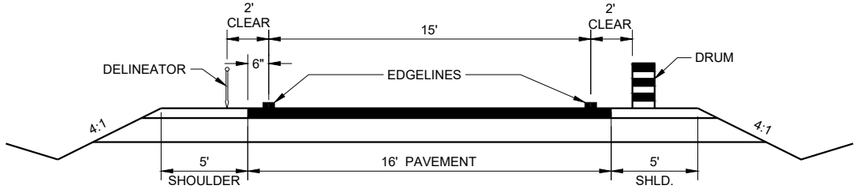
THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.

(1) FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.

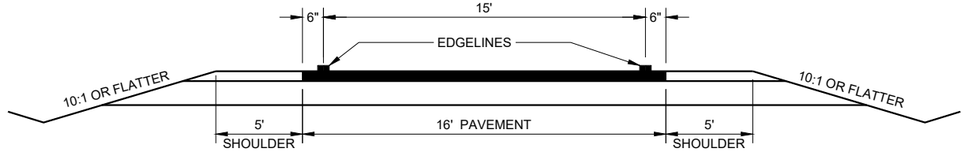
(2) FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.





TYPICAL TEMPORARY CROSSOVER ROADWAY DIMENSIONS

(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)



TYPICAL CROSSOVER TO REMAIN IN PLACE ROADWAY DIMENSIONS

(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)

TRAFFIC CONTROL, SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D11 - 08

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

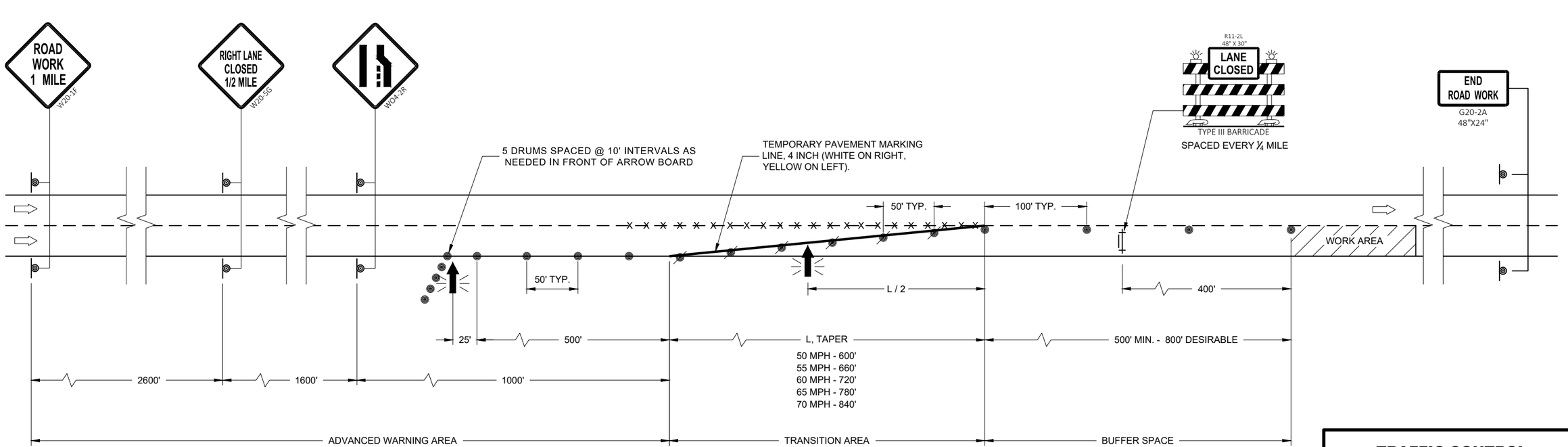
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D12 - 10a

6

SDD 15D12 - 10a

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

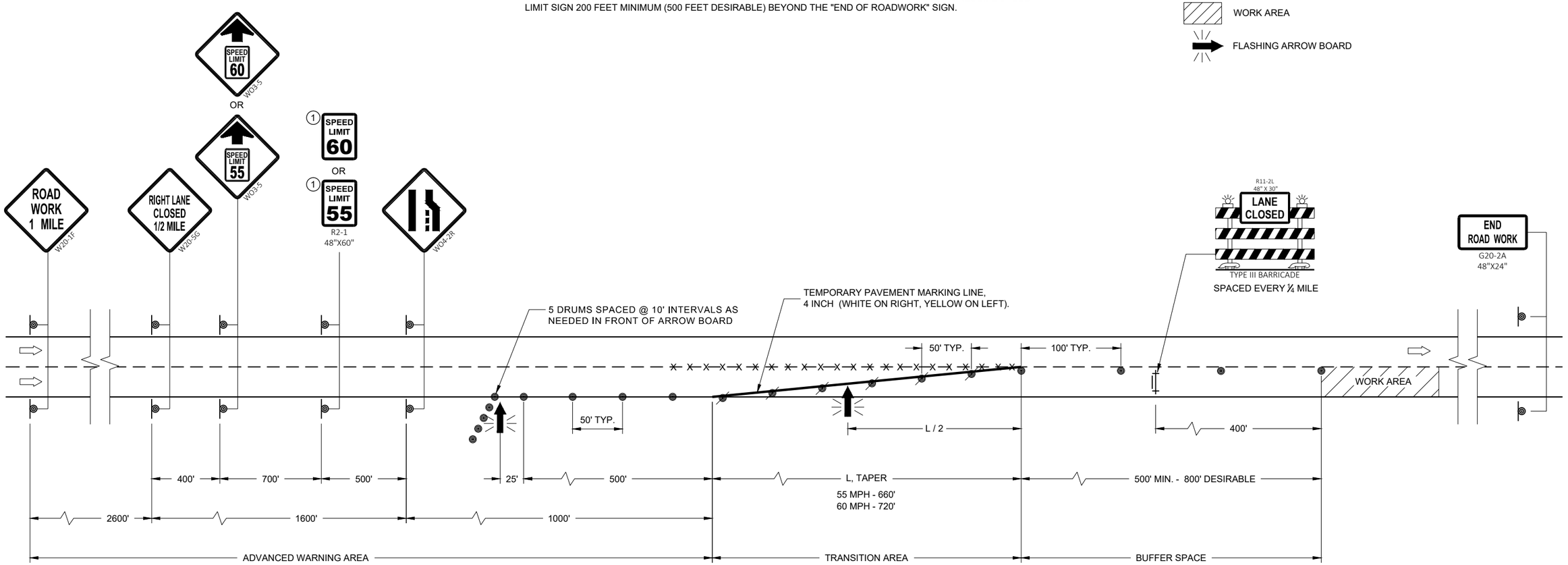
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D12 - 10b

6

SDD 15D12 - 10b

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

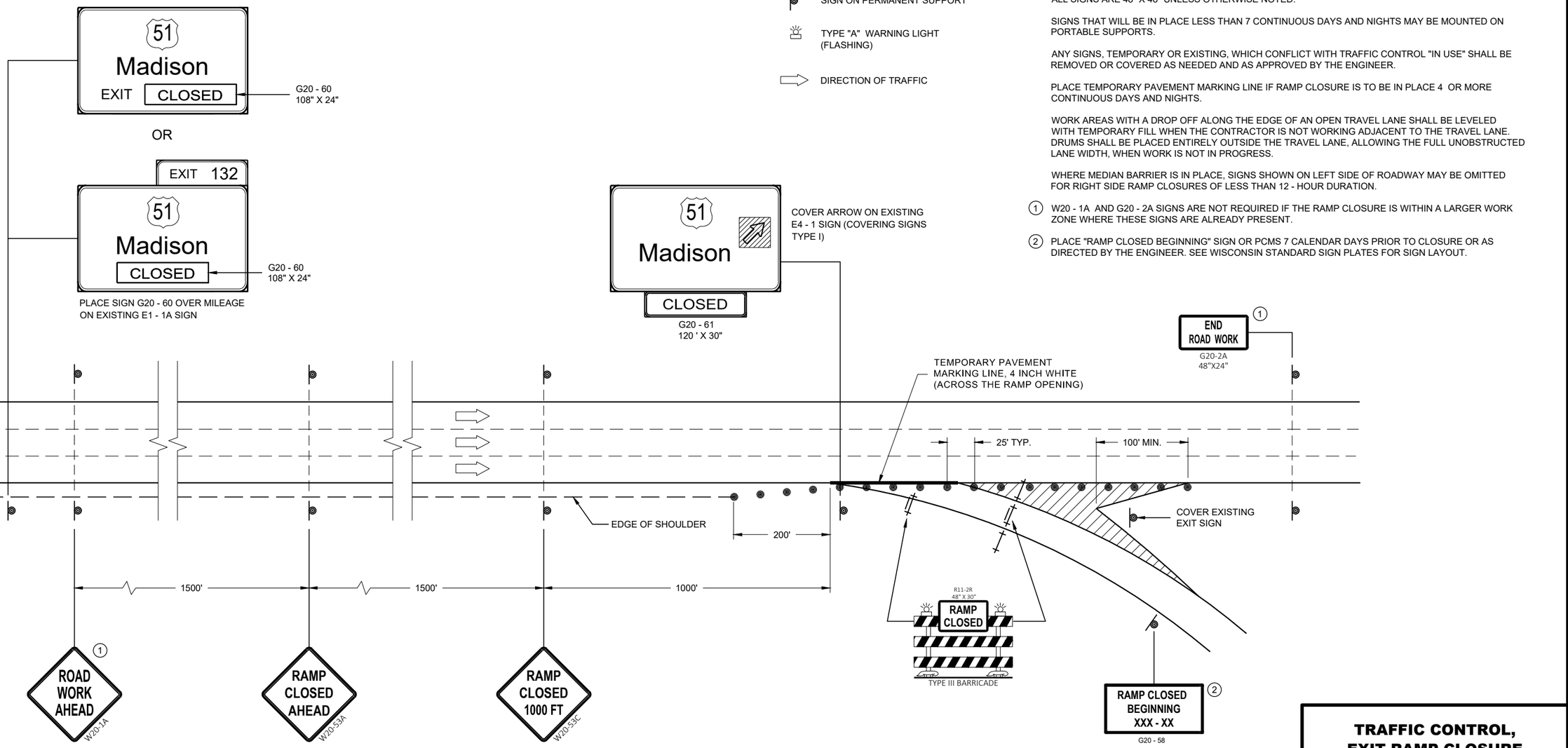
PLACE TEMPORARY PAVEMENT MARKING LINE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

(1) W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

(2) PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 15D16 - 05

6
SDD 15D16 - 05

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

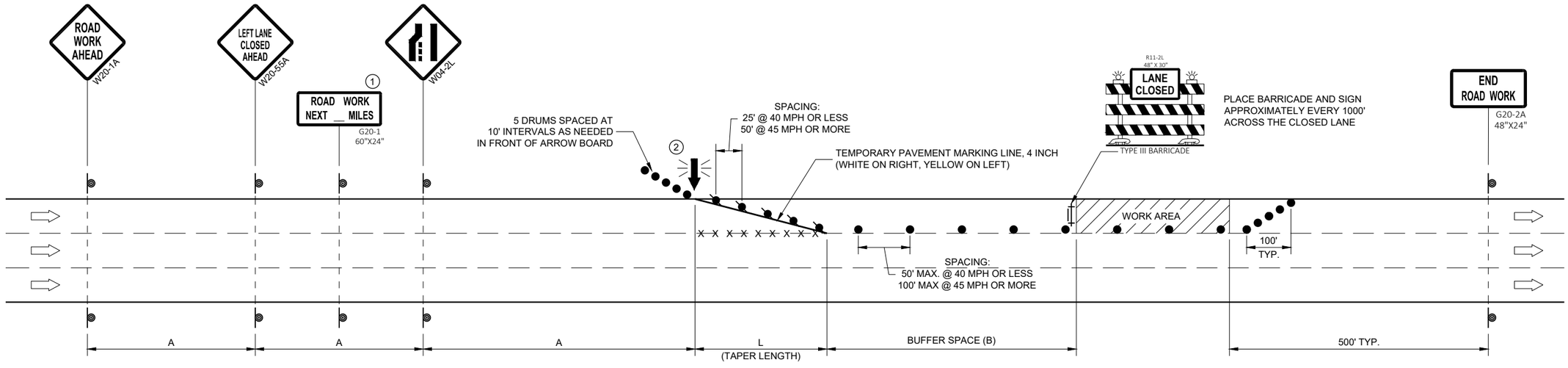
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

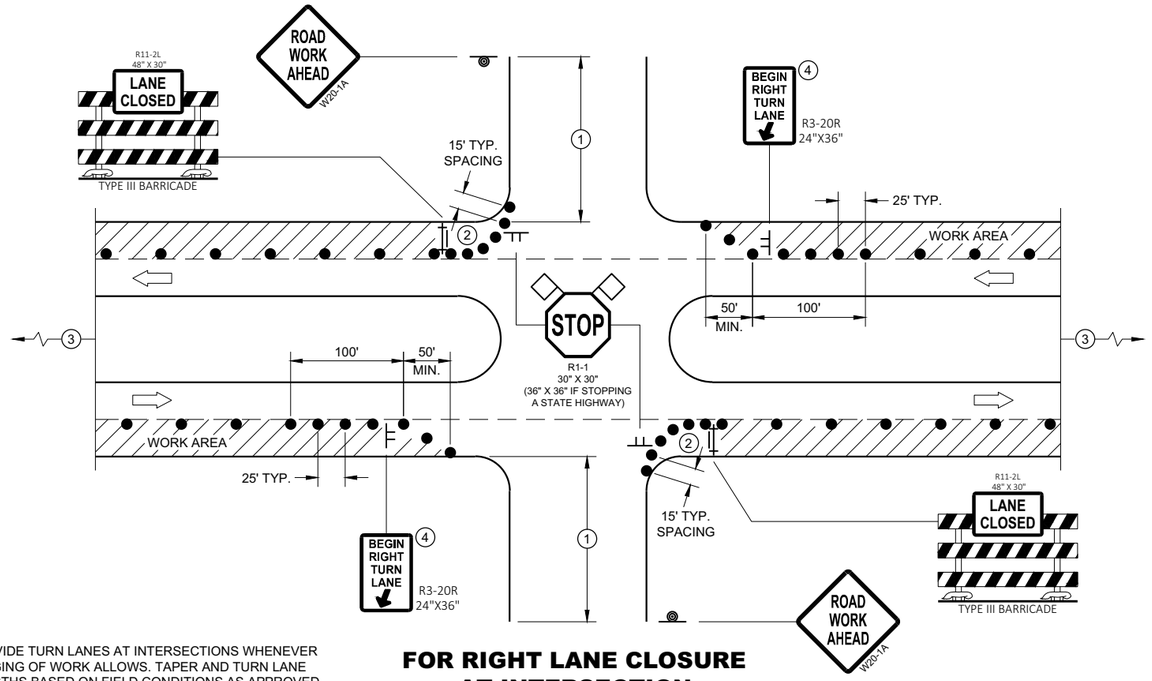
APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

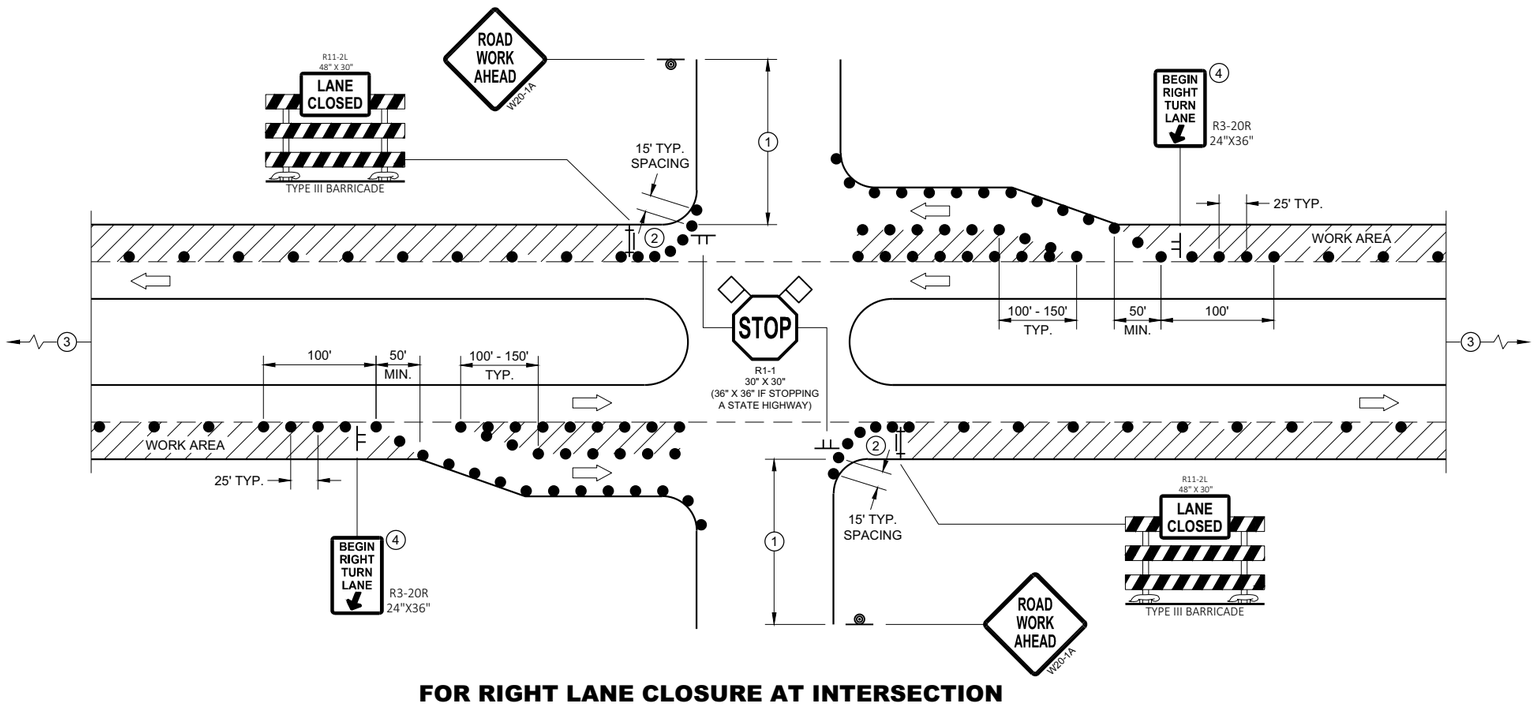
6

SDD15D20 - 06a



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

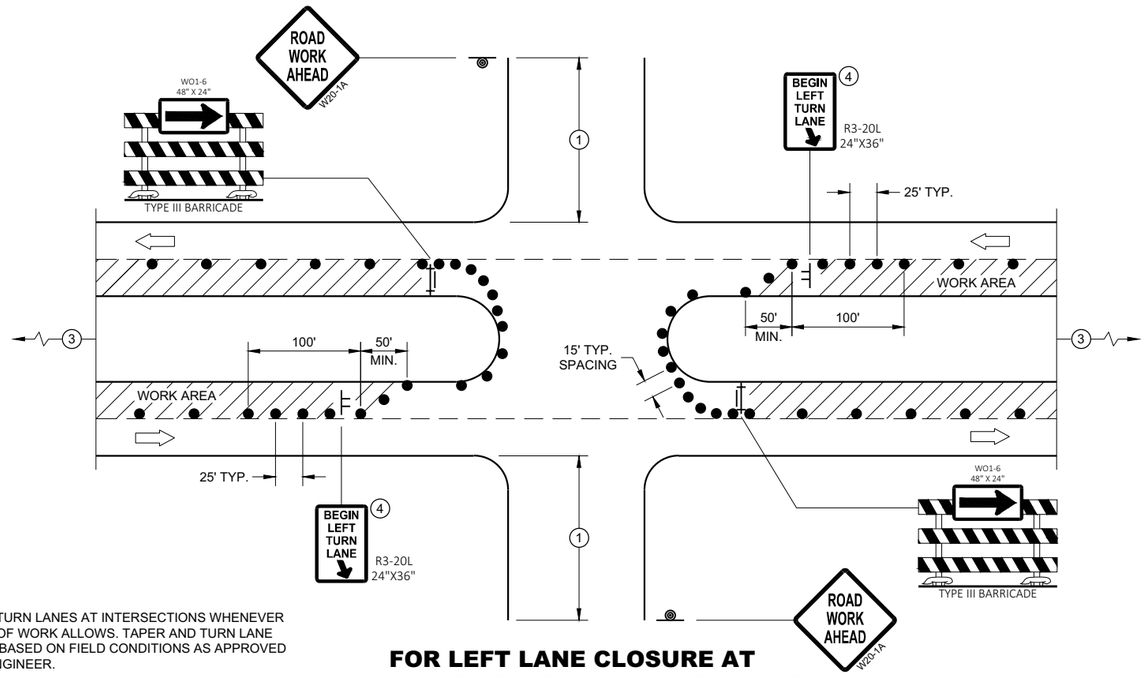
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a

6

SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

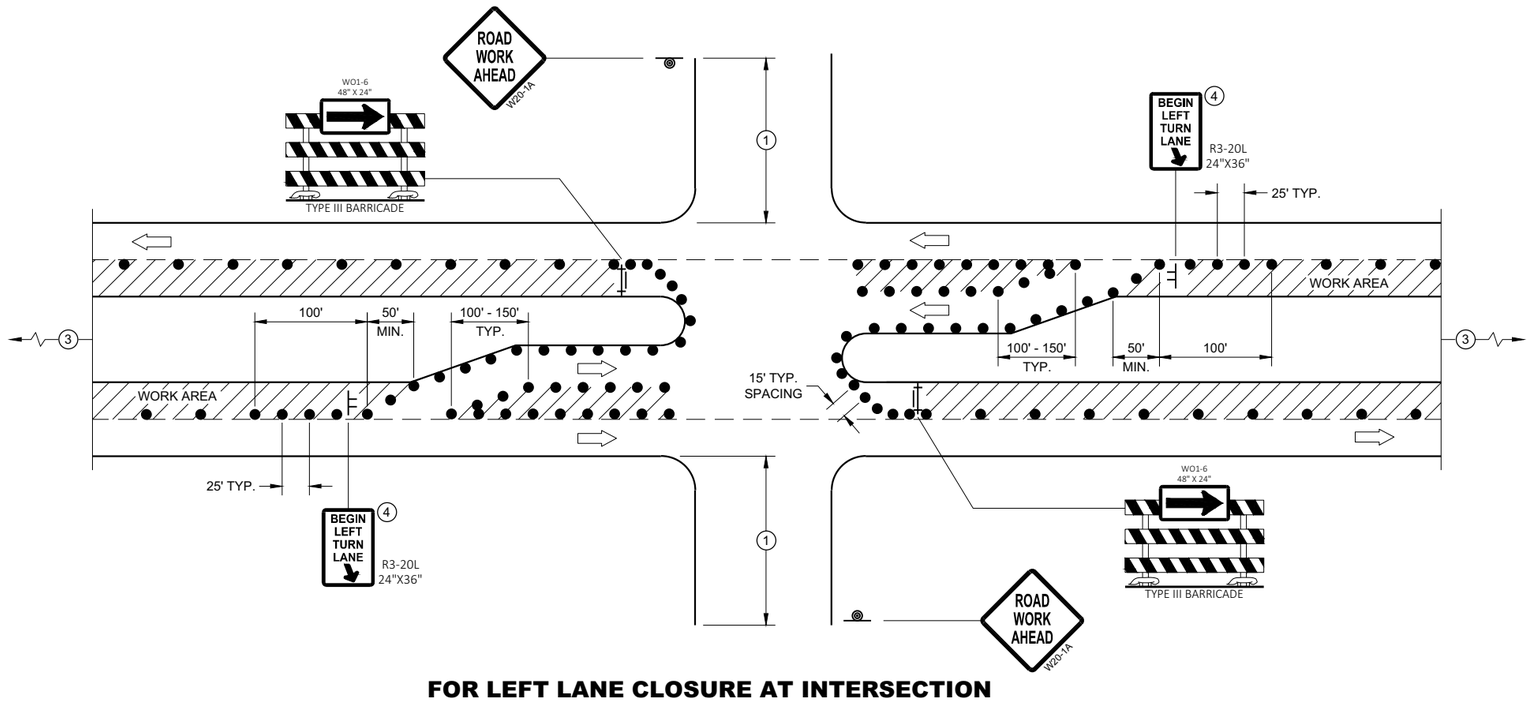
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D21 - 07b

6

SDD 15D21 - 07b

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45 MPH, USE SDD 15D14.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES.
FOR CLOSING LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

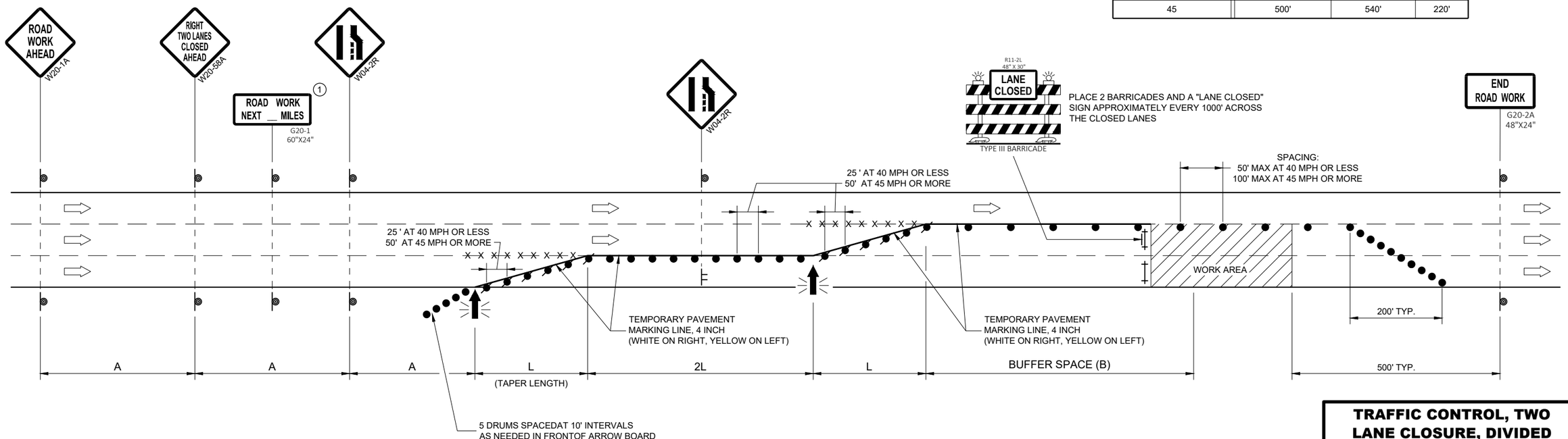
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'



TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

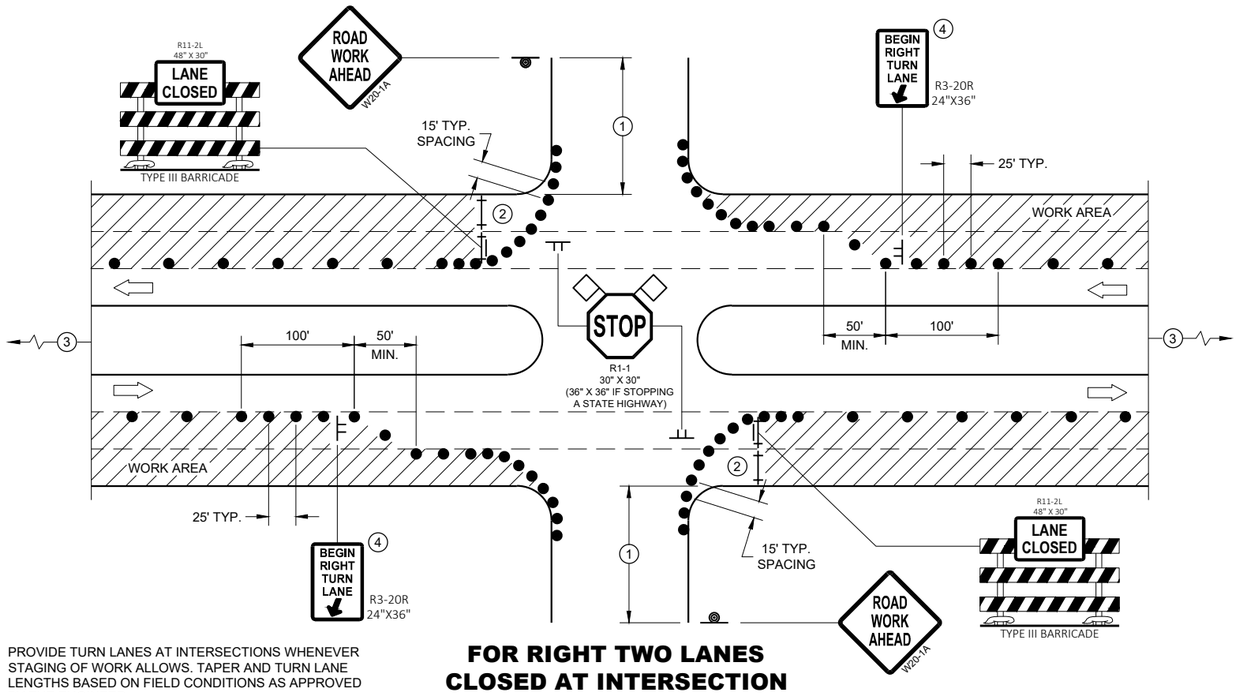
APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D22 - 05



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT TWO LANES CLOSED AT INTERSECTION

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

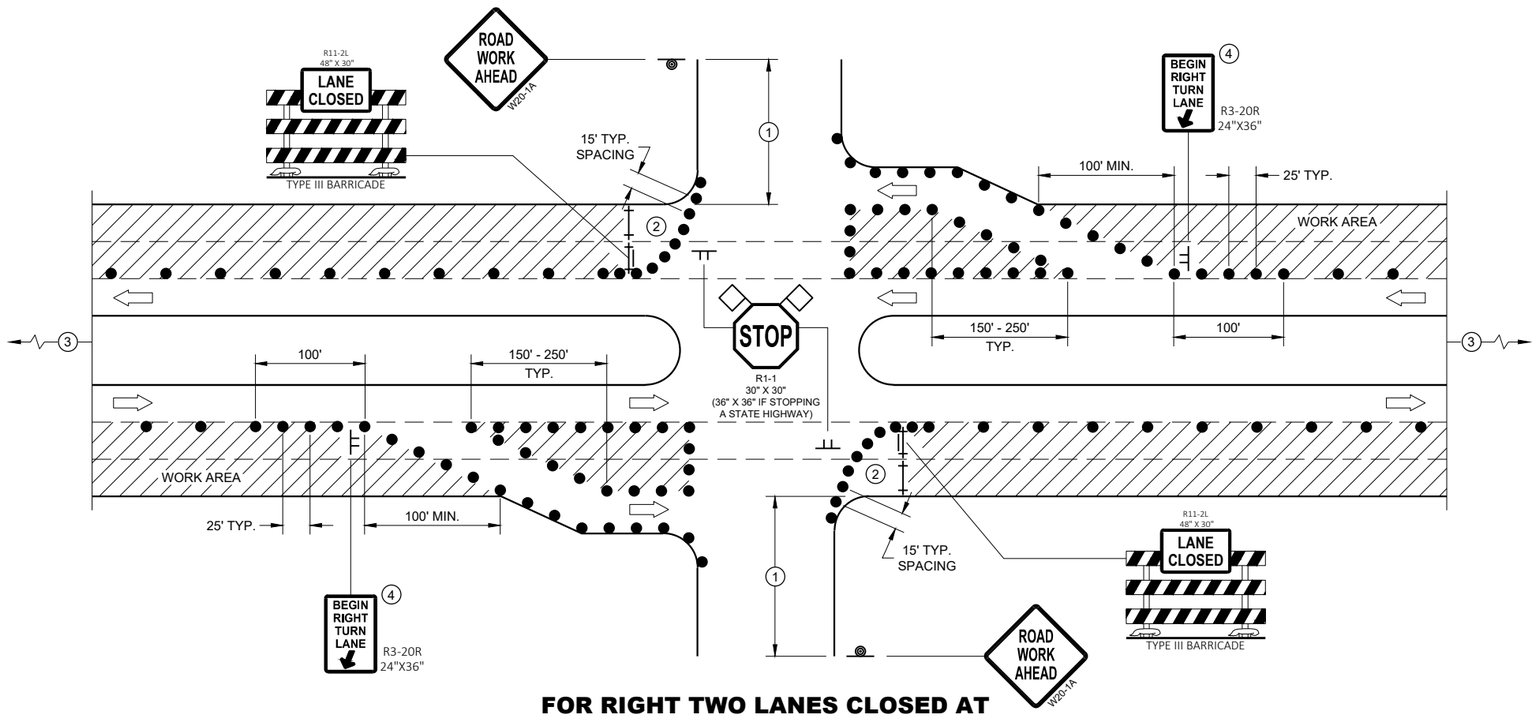
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR RIGHT TWO LANES CLOSED AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

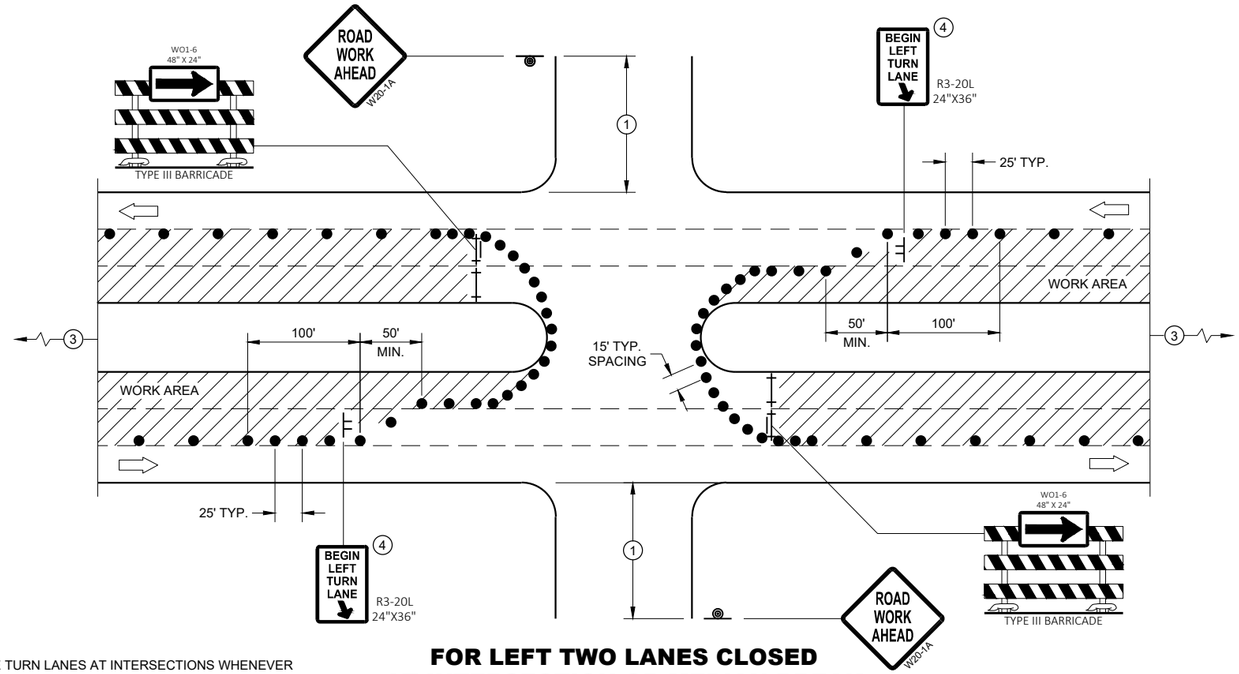
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN TWO RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D23 - 07a



FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

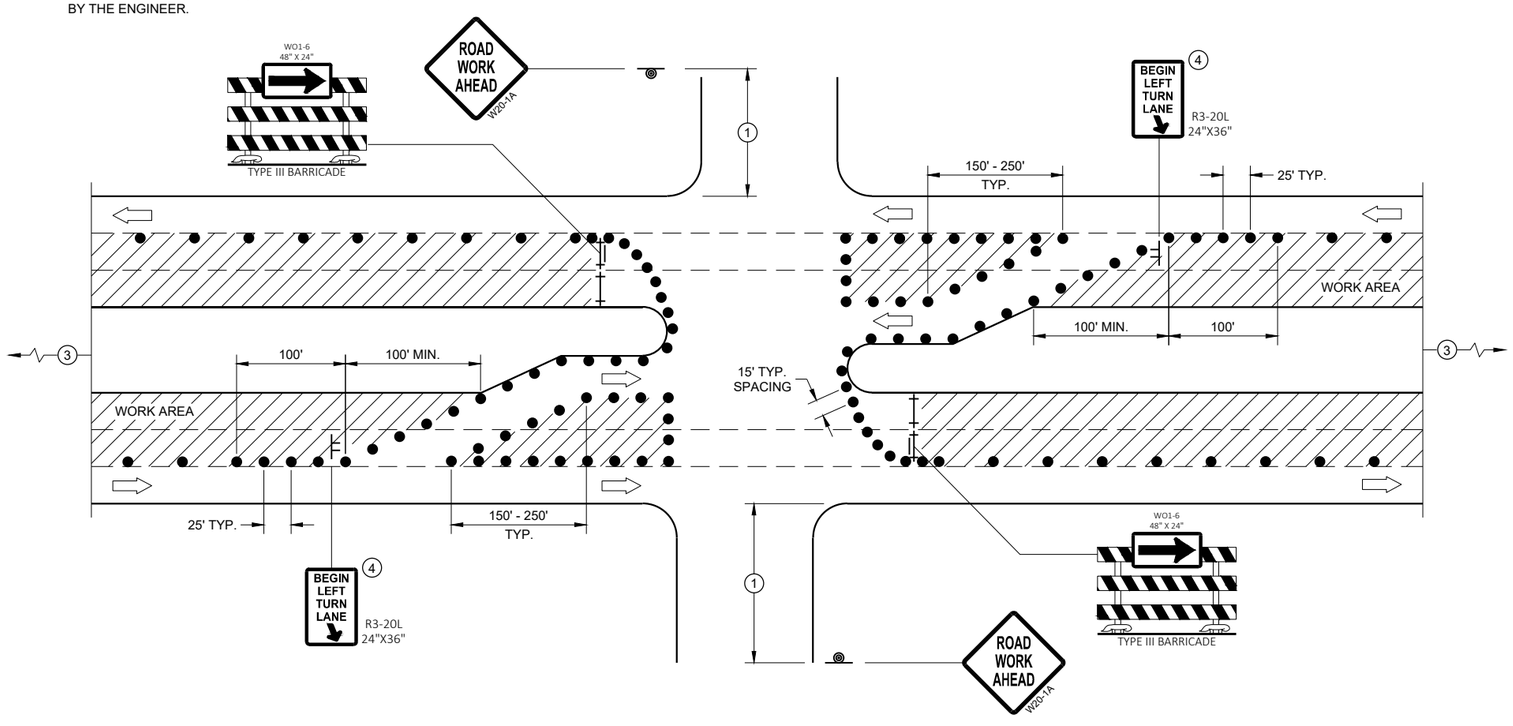
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN TWO LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

528

FHWA

GENERAL NOTES

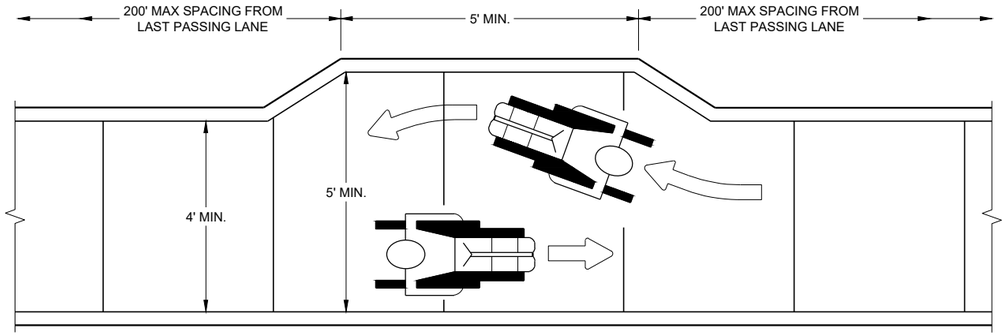
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

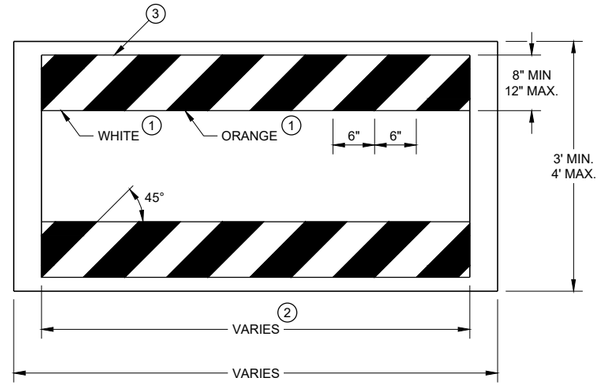
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

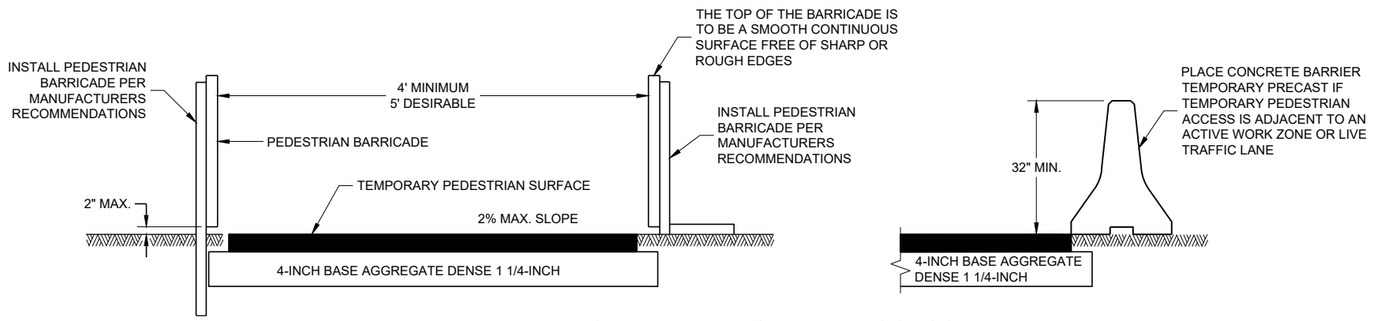
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*

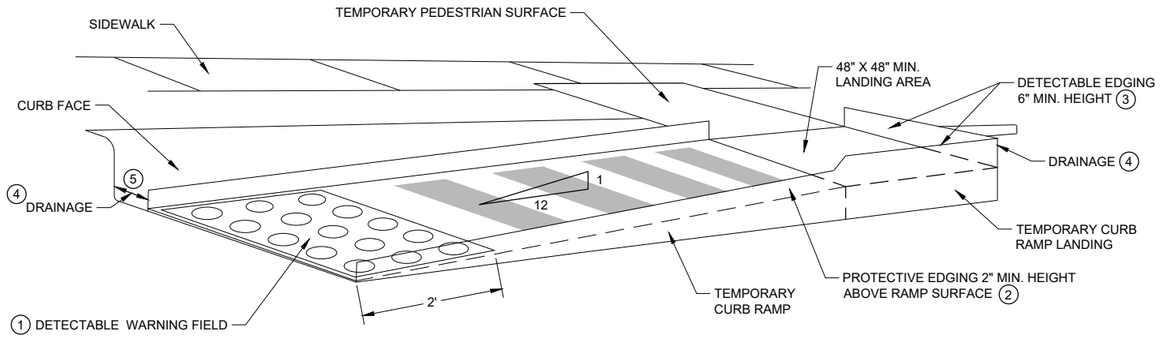


TEMPORARY PEDESTRIAN ACCESS

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 08a



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

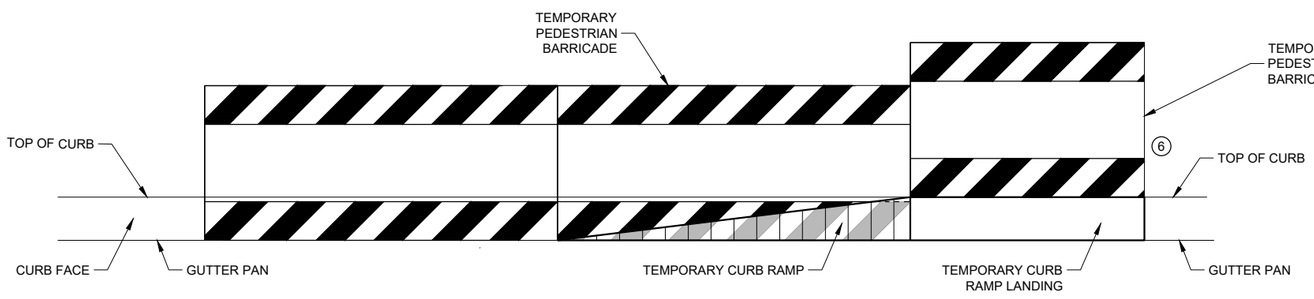
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

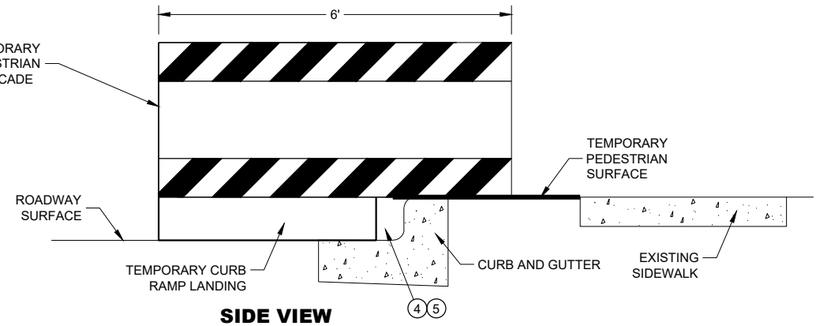
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

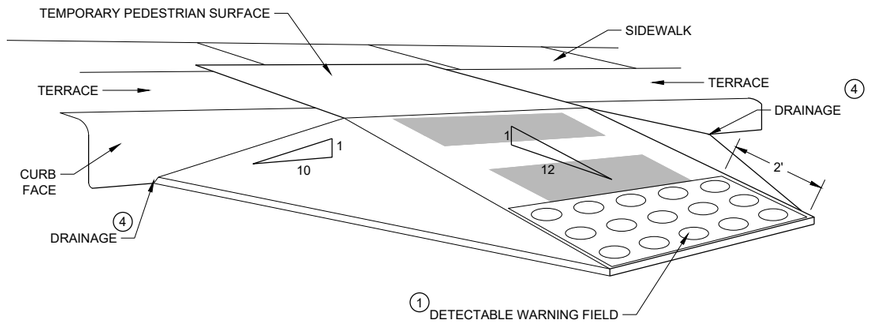
TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

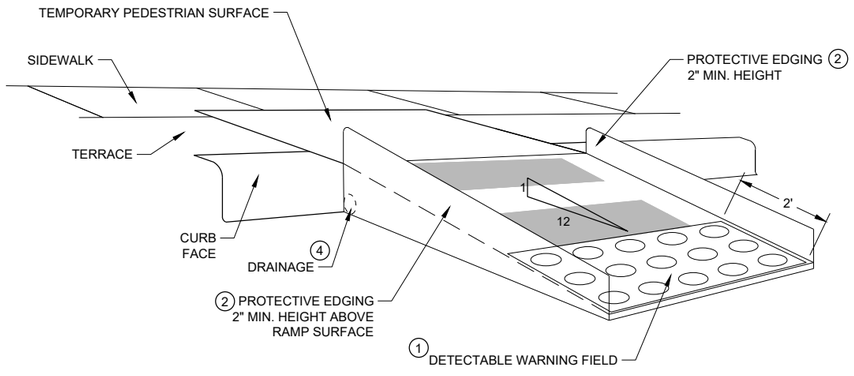
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 08b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

6

SDD 15D30 - 08c

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

GENERAL NOTES

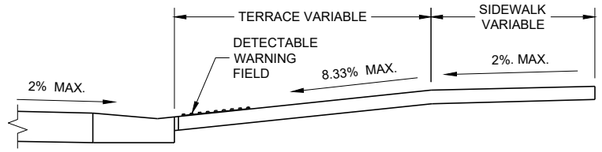
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

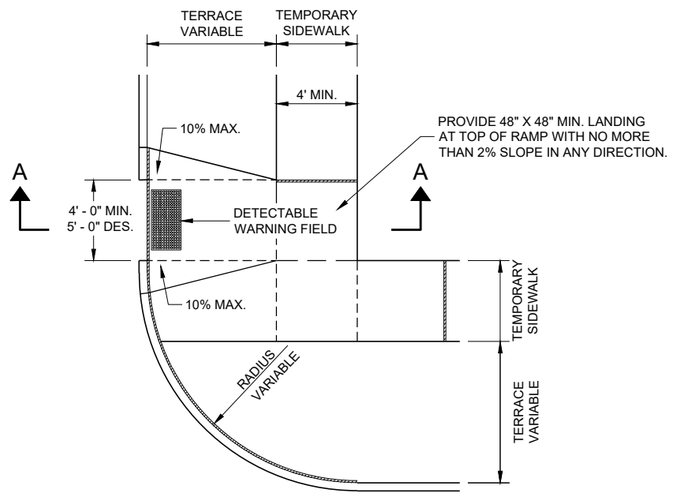
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

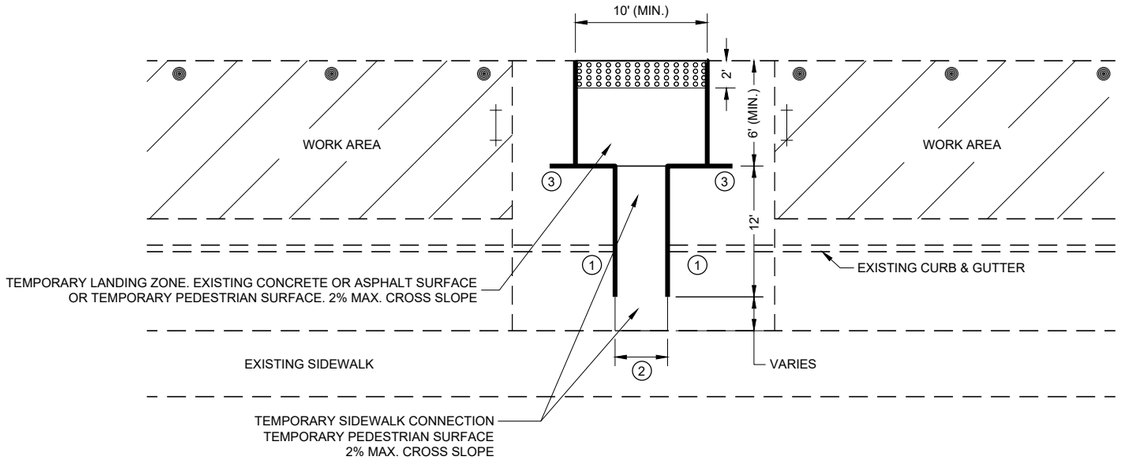
APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

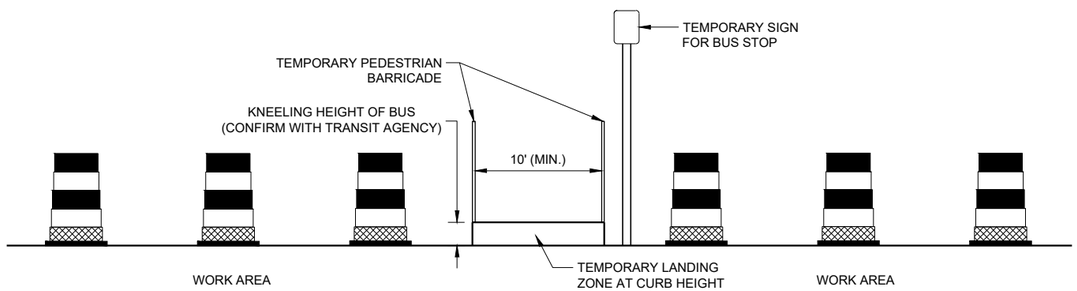
FHWA

6

SDD 15D30-08d



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA

6

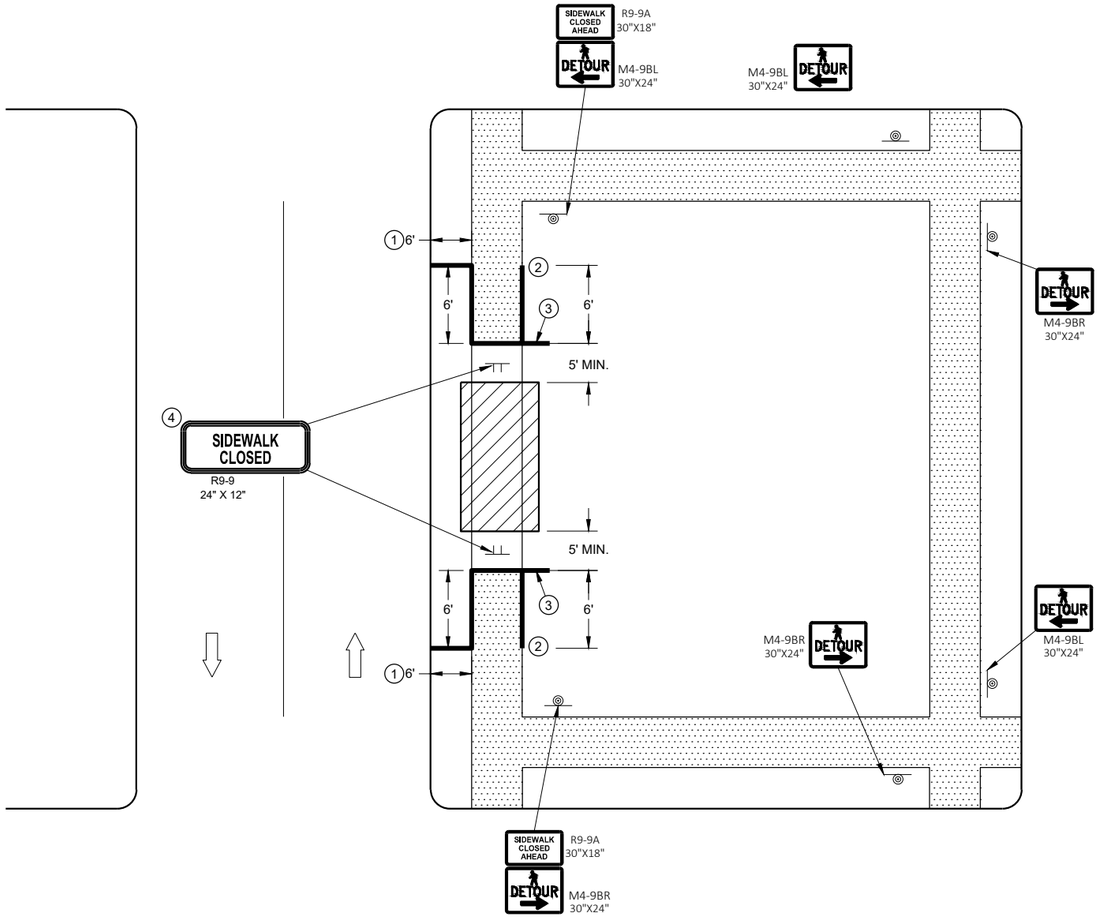
SDD 15D30 - 08e

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA1 533

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

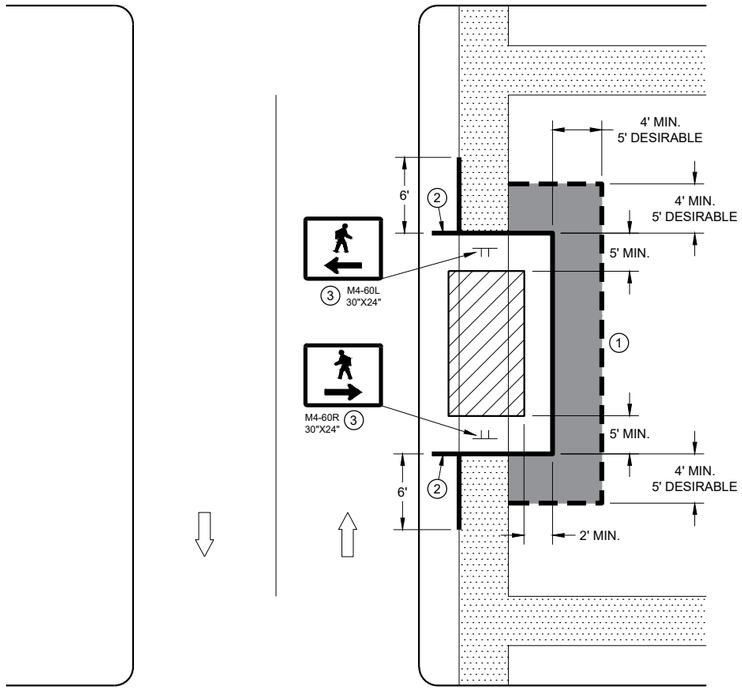
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
2. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

6

SDD 15D30 - 08g

6

SDD15D30 - 08g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

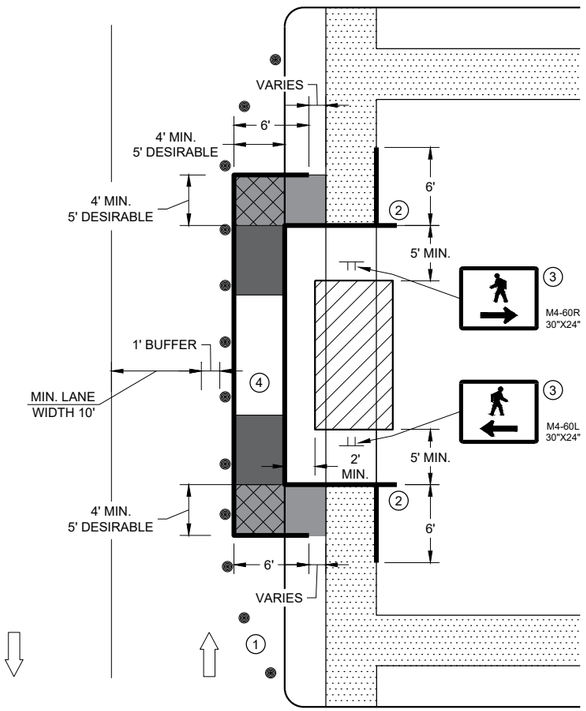
GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
2. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
4. USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

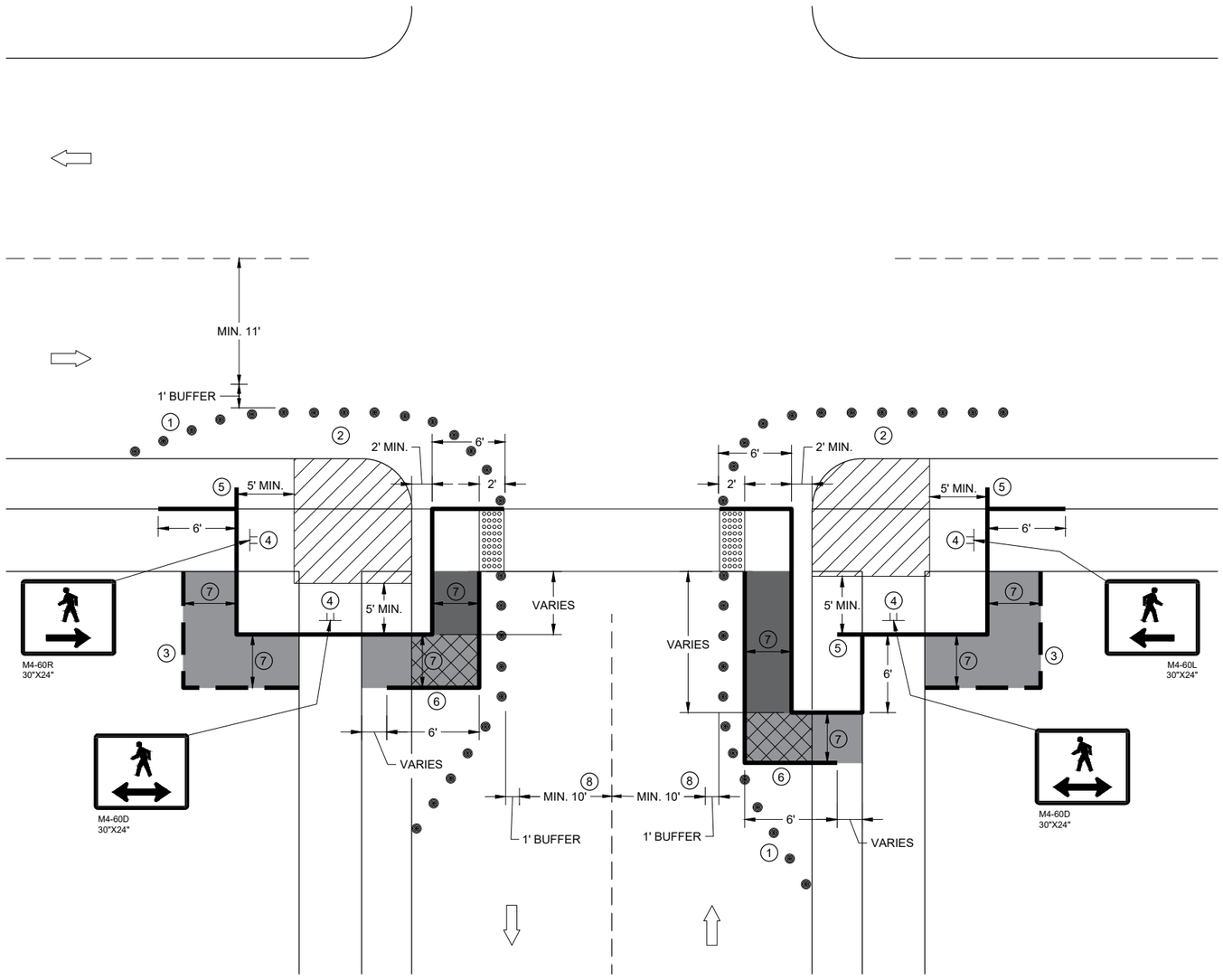
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 08h

6

SDD 15D30 - 08h



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

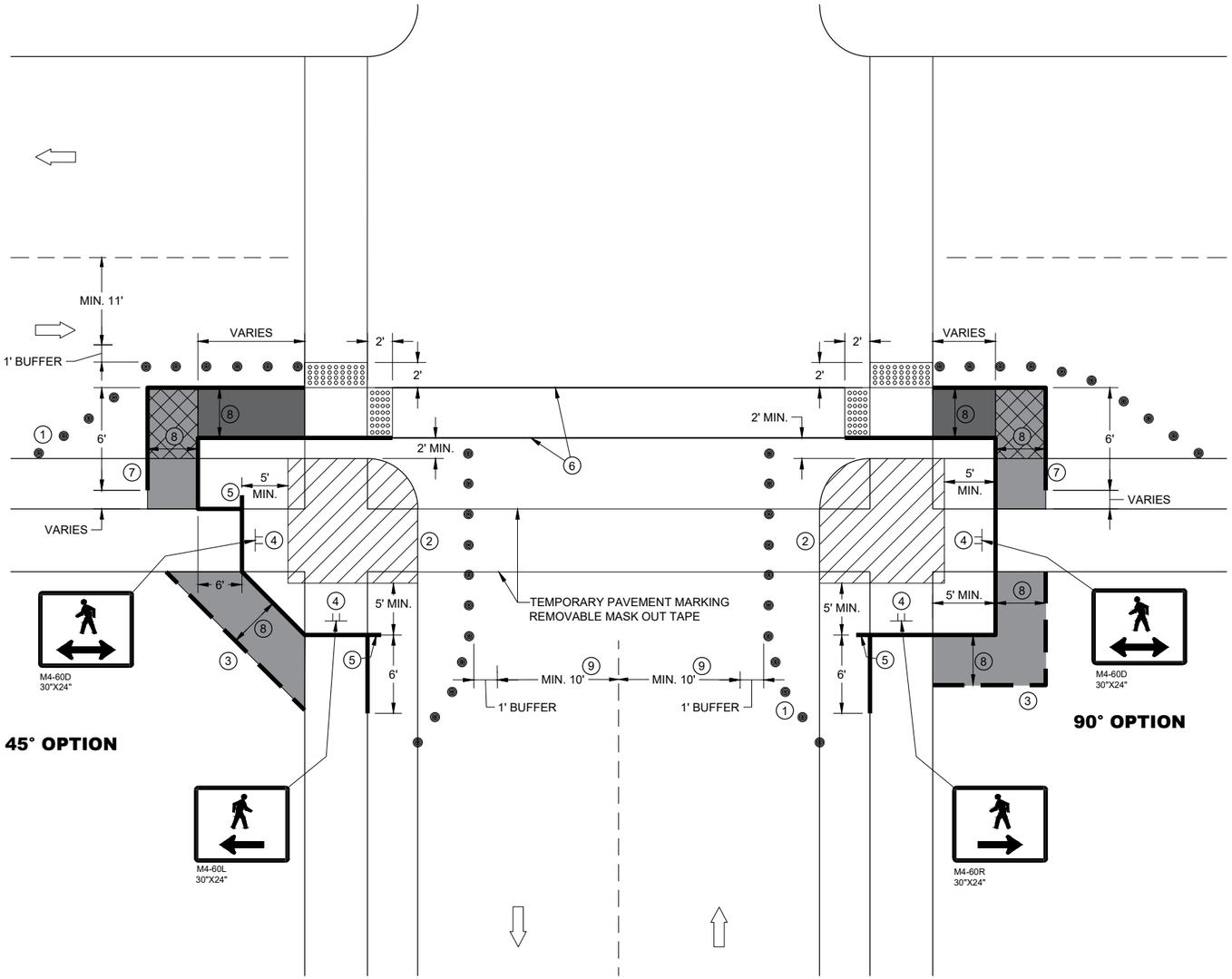
1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

6
SDD 15D30 - 08i



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. WHITE 6" TEMPORARY PAVEMENT MARKING
7. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
8. 4 FEET MINIMUM, 5 FEET DESIRABLE
9. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

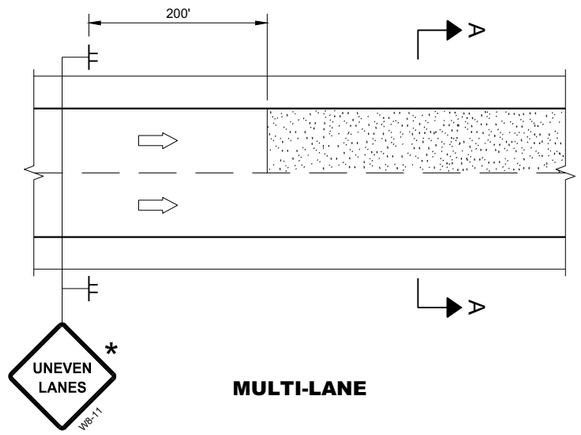
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

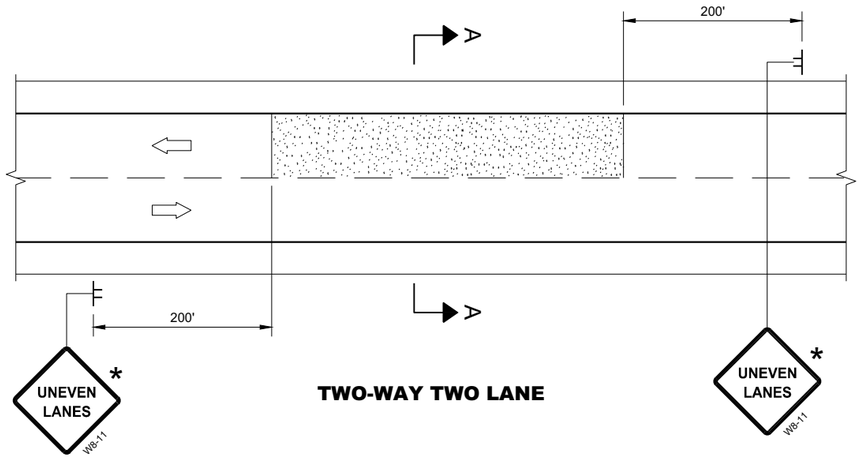
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

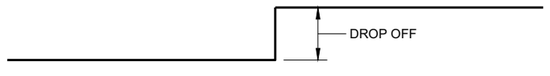
SDD 15D30 - 08j



MULTI-LANE

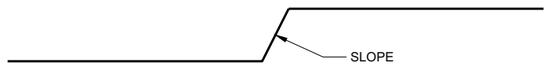


TWO-WAY TWO LANE

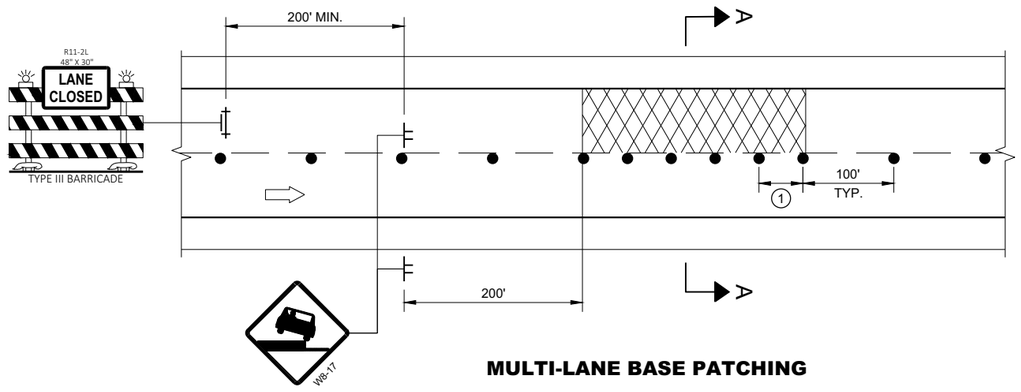


SECTION A - A

OR

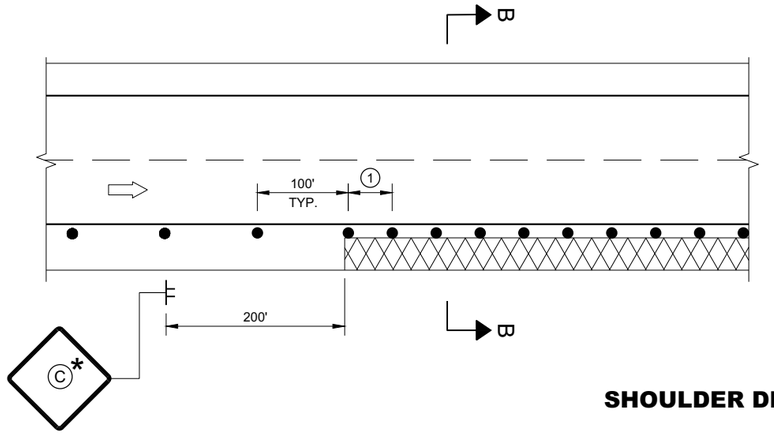


SECTION A - A

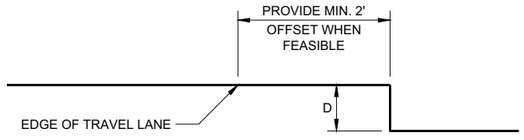


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D39 - 02

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

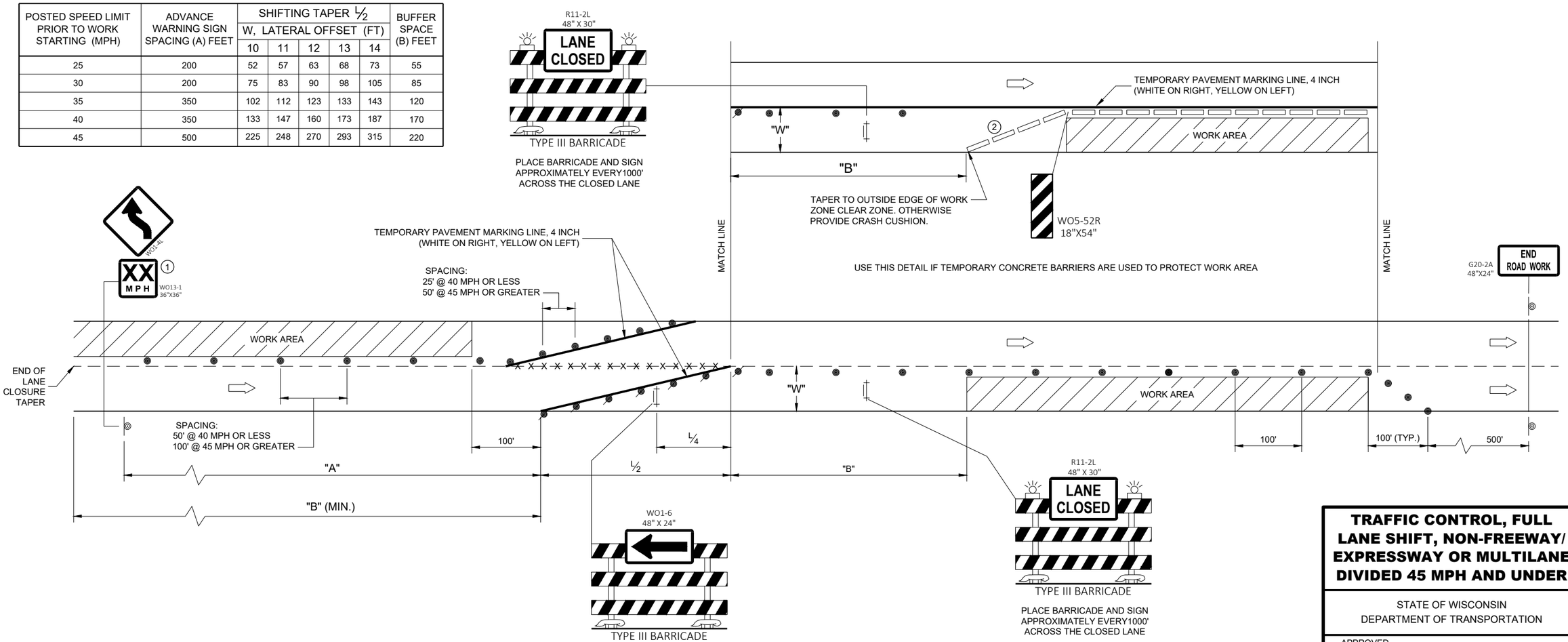
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER
SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL
CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	143	120
40	350	133	147	160	173	187	170
45	500	225	248	270	293	315	220



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D40 - 04a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)				
	10	11	12	13	14
50	250	275	300	325	350
55	275	303	330	358	385
60	300	330	360	390	420
65	325	358	390	423	455
70	350	385	420	455	490

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

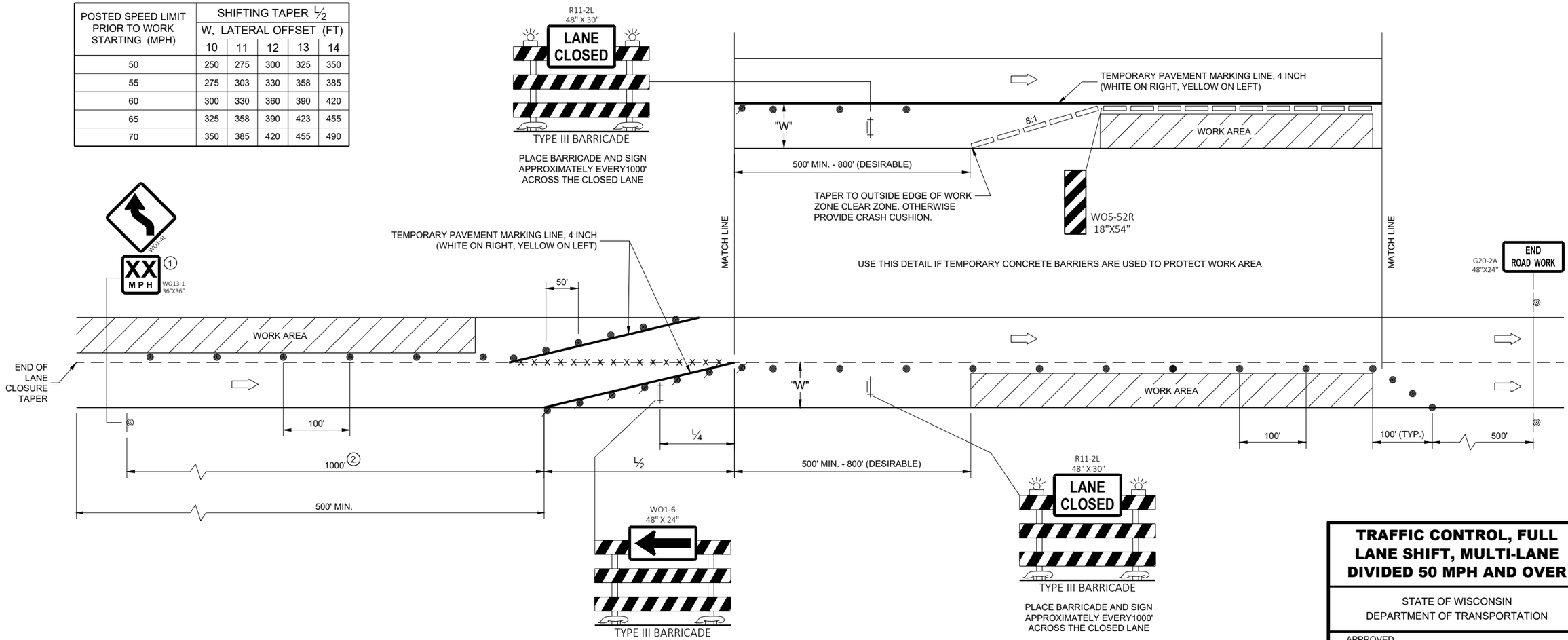
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ½ THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) IF BEGINNING OF LANE SHIFT IS 1200' OF LESS FROM THE END OF THE LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.



TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

541

FHWA

6

SDD 15D40 - 04b

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

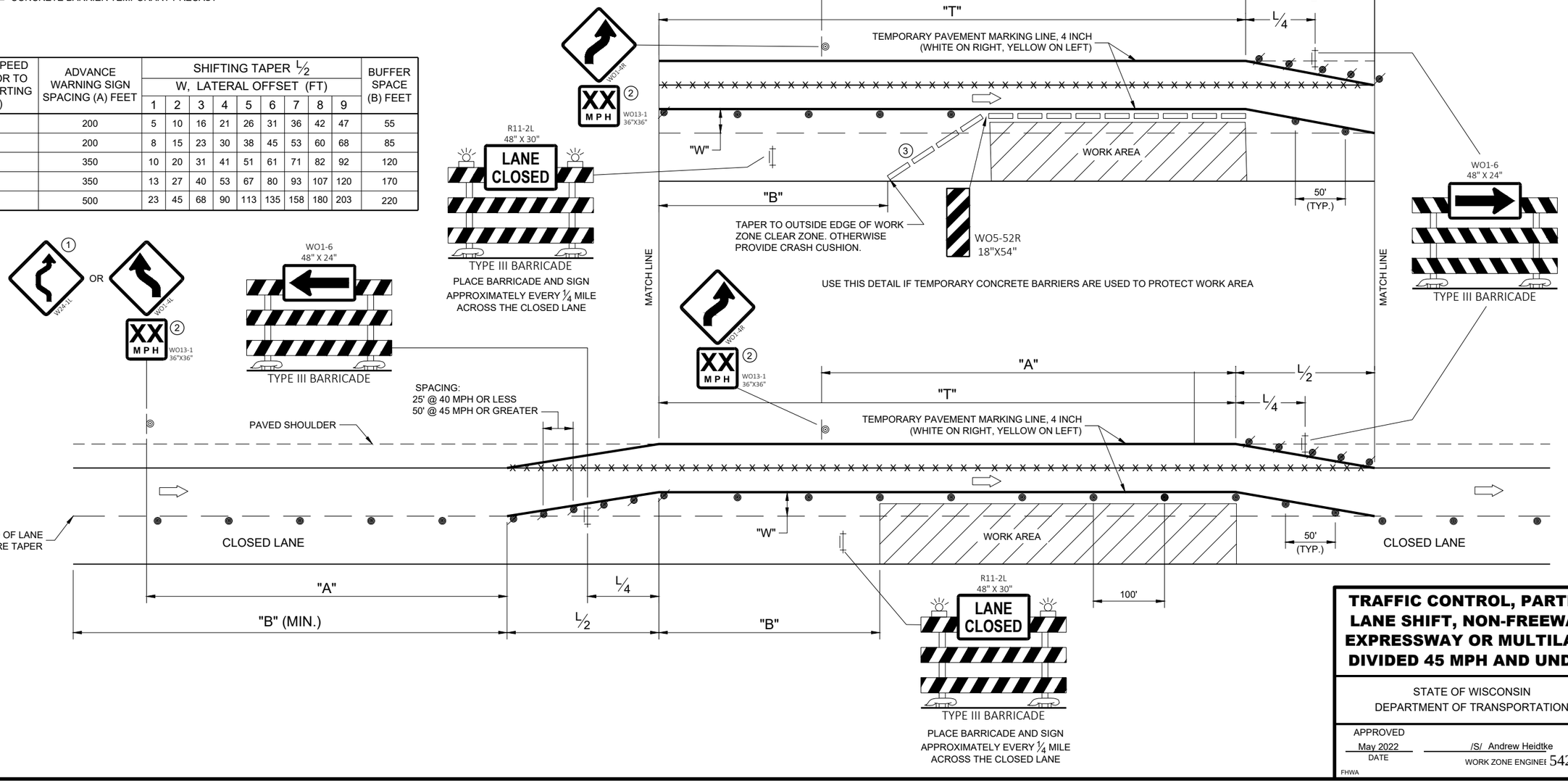
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T<600', OMIT WO1-4R.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(3) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)									BUFFER SPACE (B) FEET
		1	2	3	4	5	6	7	8	9	
25	200	5	10	16	21	26	31	36	42	47	55
30	200	8	15	23	30	38	45	53	60	68	85
35	350	10	20	31	41	51	61	71	82	92	120
40	350	13	27	40	53	67	80	93	107	120	170
45	500	23	45	68	90	113	135	158	180	203	220



TRAFFIC CONTROL, PARTIAL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

542

FHWA

6

SDD 15D40 - 04c

6

SDD 15D40 - 04c

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

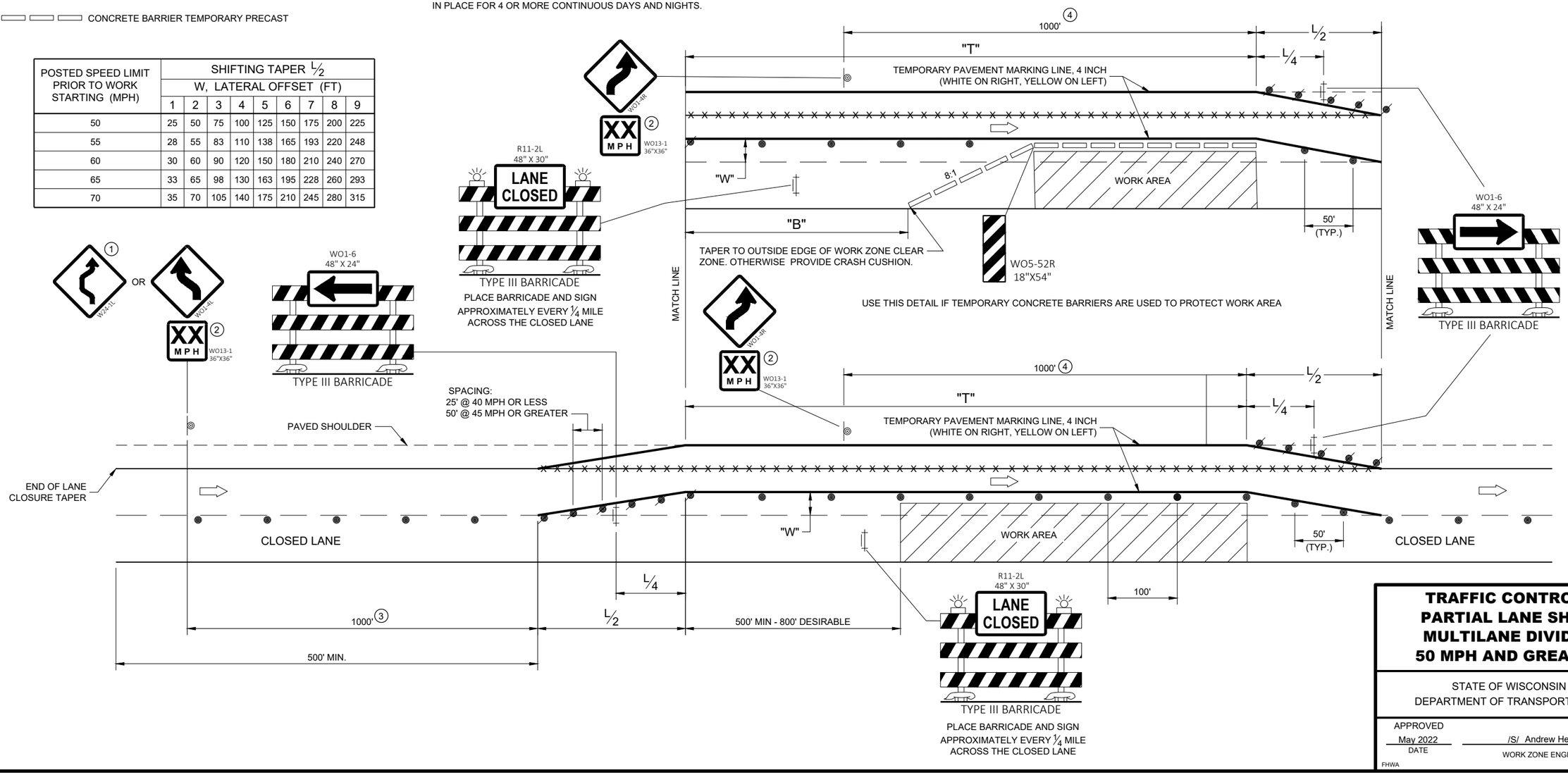
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

1. USE ONLY WHEN T<600', OMIT WO1-4R.
2. IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.
3. IF THE BEGINNING OF LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.
4. IF THE BEGINNING OF THE SECOND LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF THE FIRST LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE FIRST LANE CLOSURE TAPER.



TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D40 - 04d

SDD 15D40 - 04d

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

CONCRETE BARRIER TEMPORARY PRECAST

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

L, TAPER LENGTH (MPH)							
SPEED (MPH)	W, LATERAL OFFSET (FT)						
	10	11	12	13	14	15	16
45	450	495	540	585	630	675	720
50	500	550	600	650	700	750	800
55	550	605	660	715	770	825	880
60	600	660	720	780	840	900	960
65	650	715	780	845	910	975	1040
70	700	770	840	910	980	1050	1120



OR



LOCATED 3000 FEET BEYOND THE "ROAD WORK 1 MILE" (W20-1F) SIGN



R2-1
48"X60"

OR



R2-1
48"X60"

(BLACK AND WHITE) LOCATED 700 FEET BEYOND THE W03-5 SIGN

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 3 MILES.

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

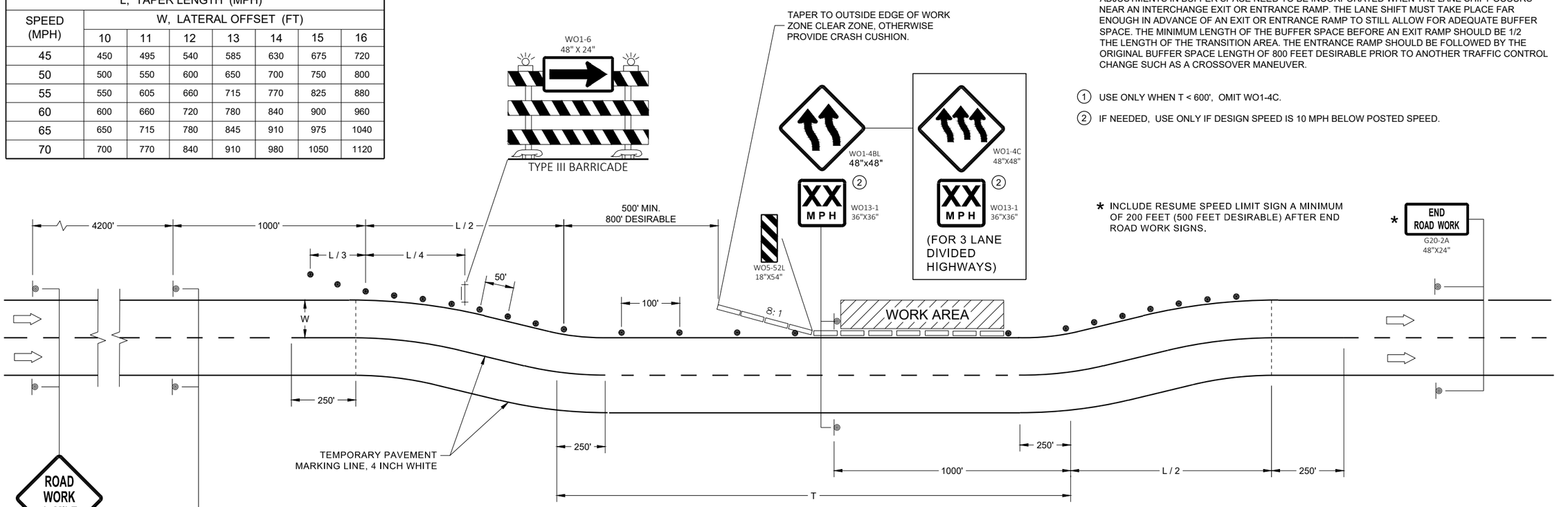
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T < 600', OMIT WO1-4C.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.



TRAFFIC CONTROL MULTIPLE LANE SHIFT MULTILANE DIVIDED ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

544

FHWA

6

SDD 15D41 - 02

6

SDD 15D41 - 02

LEGEND

- EXISTING SIGN ON PERMANENT SUPPORT
- NEW SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

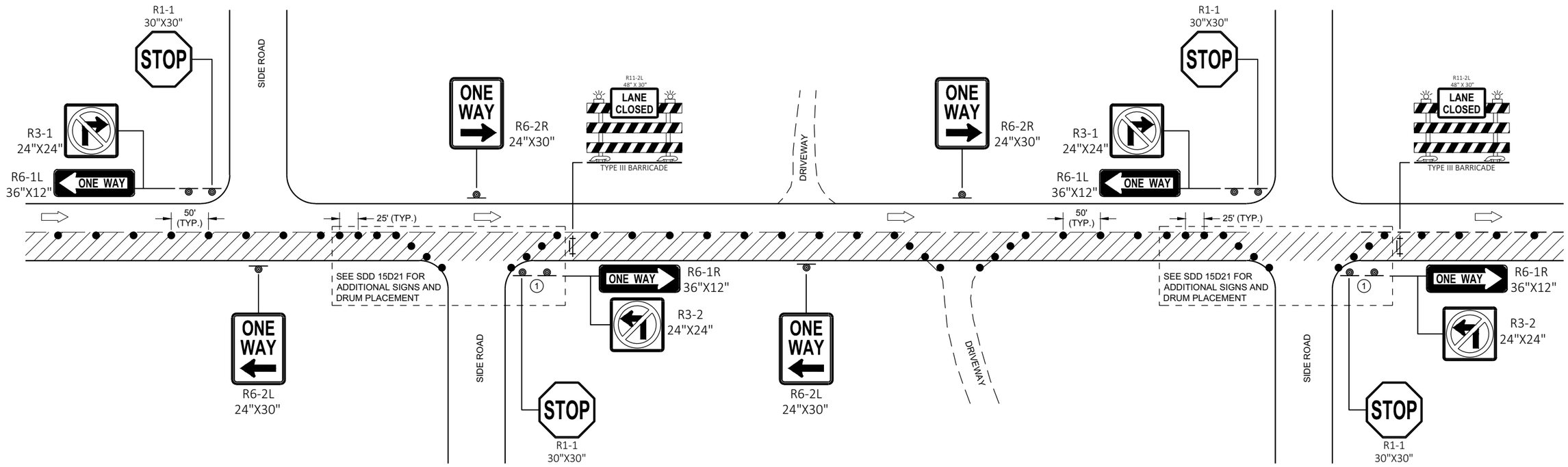
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) IF WORK OPERATIONS ALLOWS, MOVE R1-1, R6-1R, AND R3-2 CLOSER TO INTERSECTION.



TRAFFIC CONTROL
ONE - WAY SIGNING

TRAFFIC CONTROL ONE-WAY SIGNING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEE
FHWA	

6

SDD 15D46 - 01

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- CONSTRUCTION TRAFFIC
- WORK AREA

TABLE 1

S (MPH)	INGRESS, L	EGRESS, L
50	435'	720'
55	480'	960'
60	530'	1200'
65	570'	1410'
70	615'	1620'

LEGEND

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WORK ZONE INGRESS/EGRESS LOCATIONS SHALL BE APPROVED BY THE ENGINEER. LOCATIONS FOR WORK ZONE ACCESS TO/FROM THE FREEWAY SHALL NOT BE USED FOR INGRESS AND EGRESS AT THE SAME TIME.

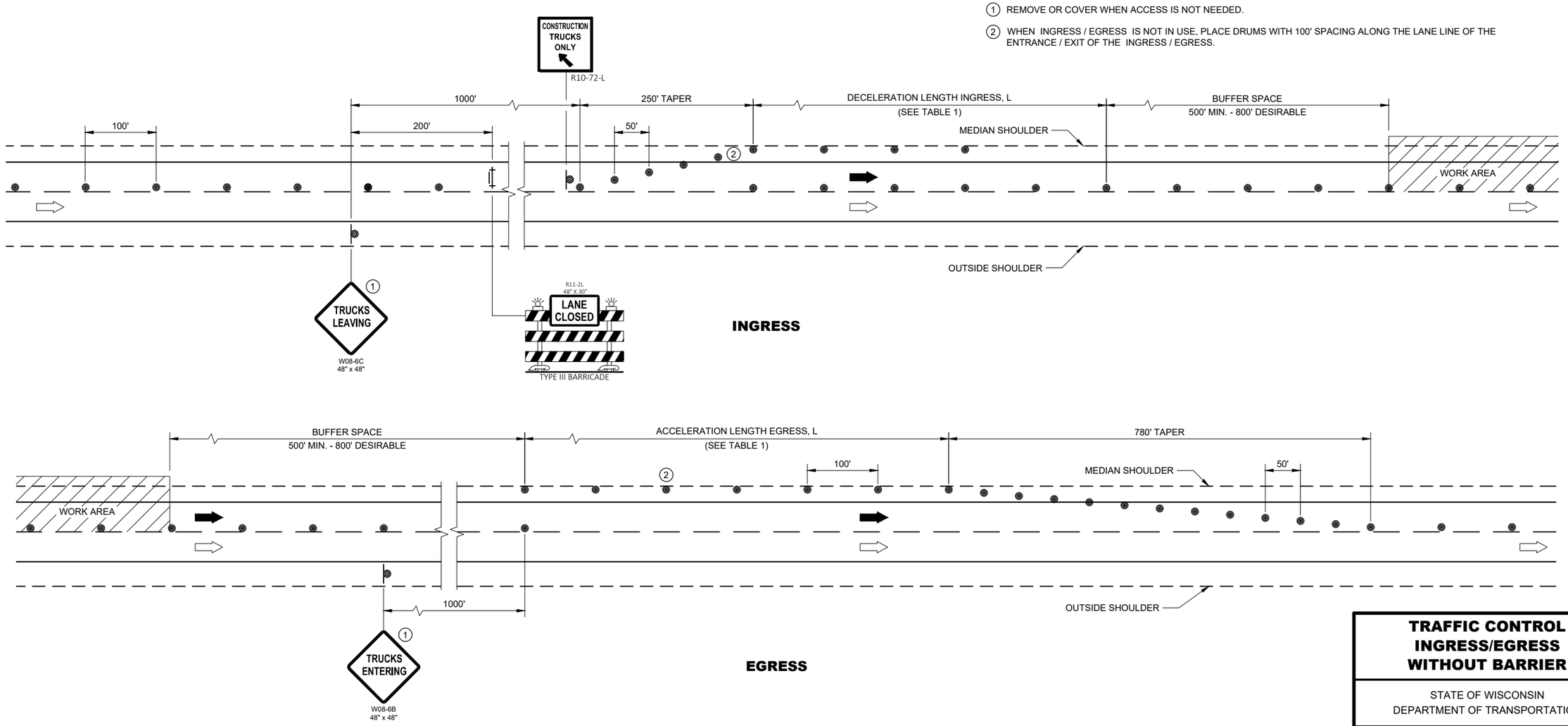
THIS ACCESS DETAIL IS TYPICAL FOR LEFT LANE ACCESS, FOR RIGHT LANE ACCESS, REVERSE THE TRAFFIC CONTROL

TEMPORARY SUPPORTS MAY BE USED IF PLACED BEHIND TEMPORARY BARRIER WALL

TRUCKS SHALL USE FLASHING YELLOW BEACON WHEN ENTERING AND EXITING LIVE TRAFFIC.

(1) REMOVE OR COVER WHEN ACCESS IS NOT NEEDED.

(2) WHEN INGRESS / EGRESS IS NOT IN USE, PLACE DRUMS WITH 100' SPACING ALONG THE LANE LINE OF THE ENTRANCE / EXIT OF THE INGRESS / EGRESS.



TRAFFIC CONTROL INGRESS/EGRESS WITHOUT BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

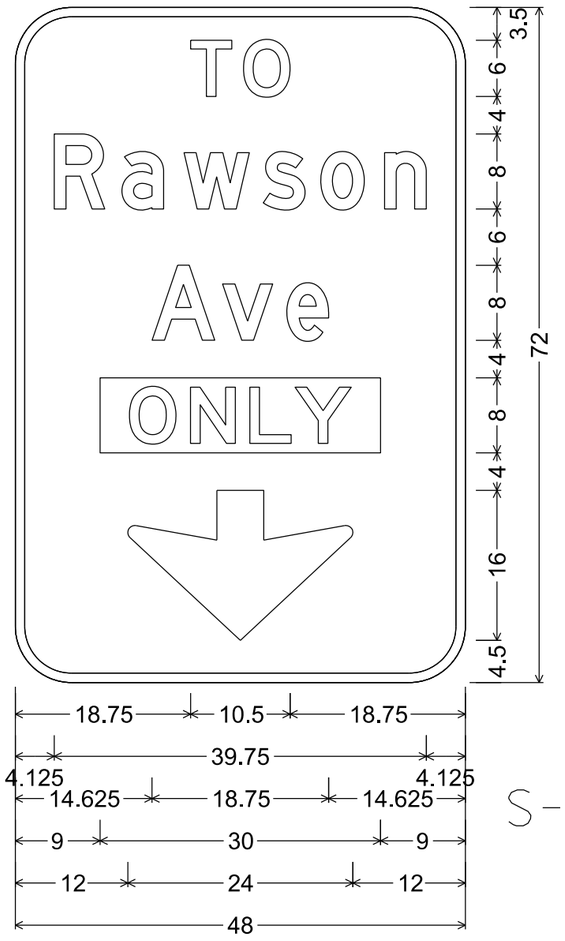
SDD 15D47 - 02b

6

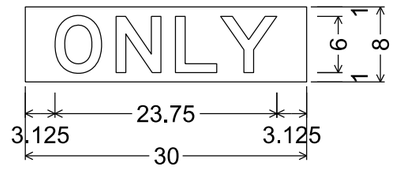
SDD 15D47 - 02b

NOTES

1. Sign is Type II- Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C except as noted
4. ONLY plaque on Type F Yellow Reflective Sheeting with Black Non-Reflective message



D16-1; 6.000" Radius, 1.000" Border



No border, Black on Fluorescent yellow;
"ONLY", E;

36
S-40-3098

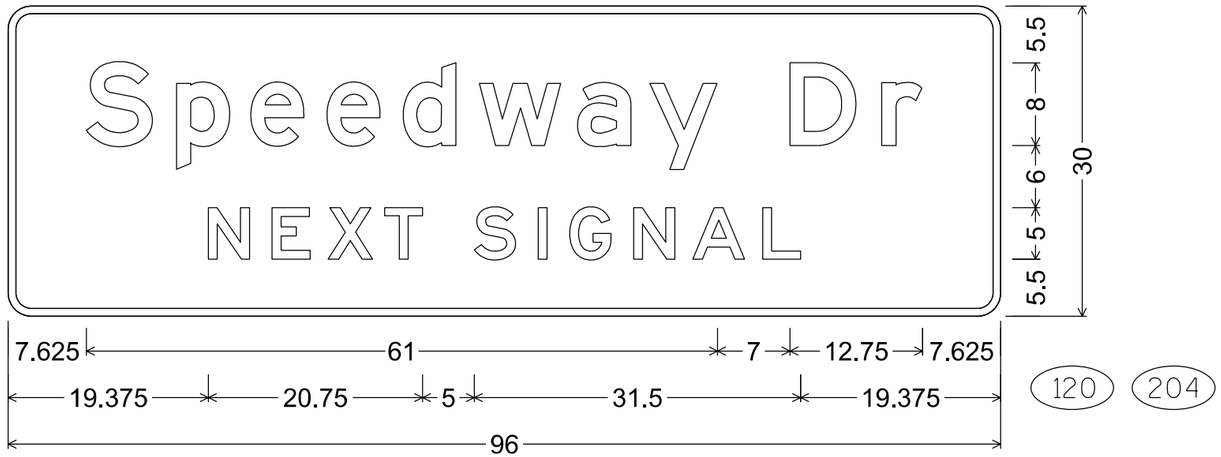
7

7

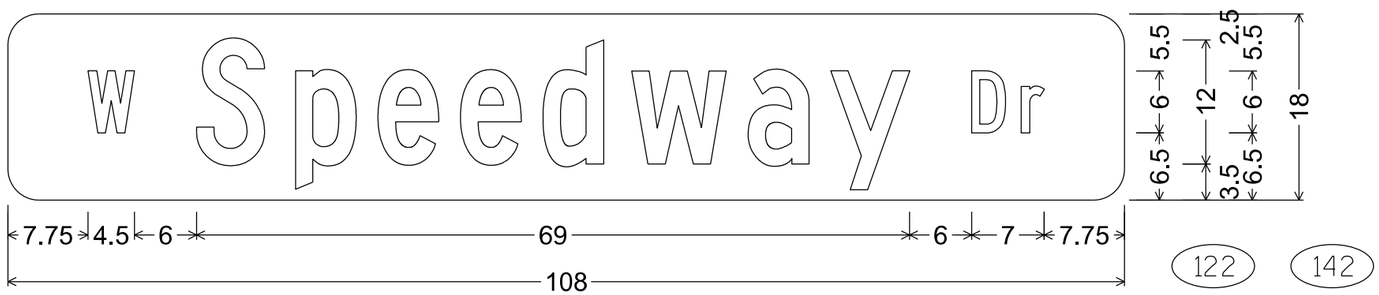
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO: 547	E

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



D1-65; 2.250" Radius, 0.750" Border

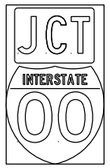


M1-94H; 3.000" Radius, No border
"W", C; "Speedway", C; "Dr", C

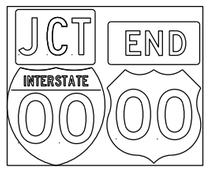
7

7

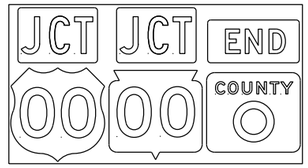
TYPICAL ASSEMBLIES



J1-1



J1-2



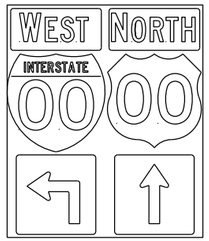
J1-3



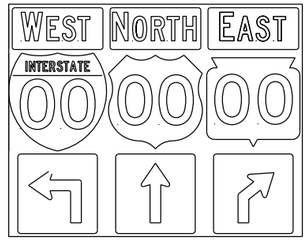
JR1-1



J2-1



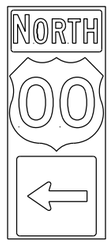
J2-2



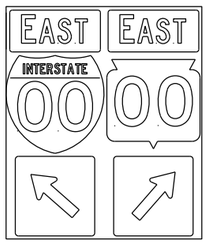
J2-3



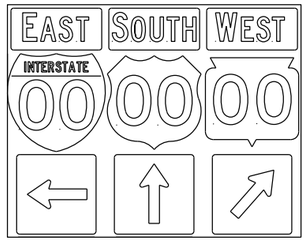
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



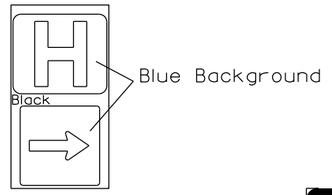
J3-1



J3-2



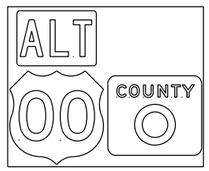
J3-3



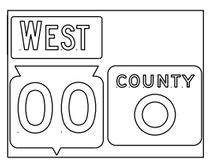
JH-1



J4-1



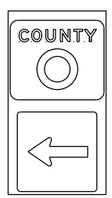
J4-2



J4-2



J12-1



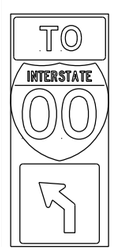
J13-1



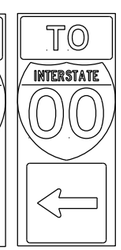
J32-1



J33-1



J22-1



J23-1



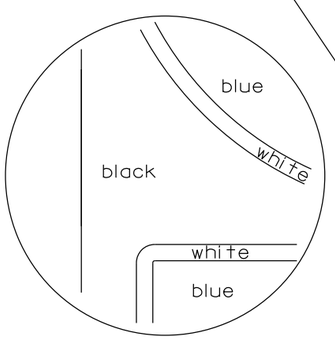
JR13-1

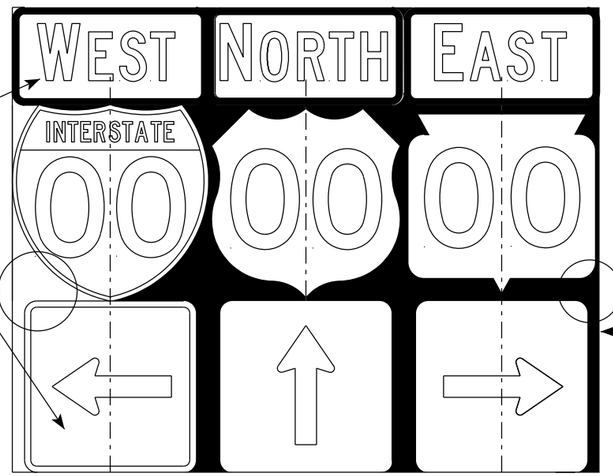


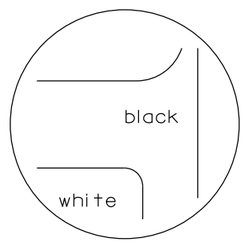
JR23-1



JR99-1







black background

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

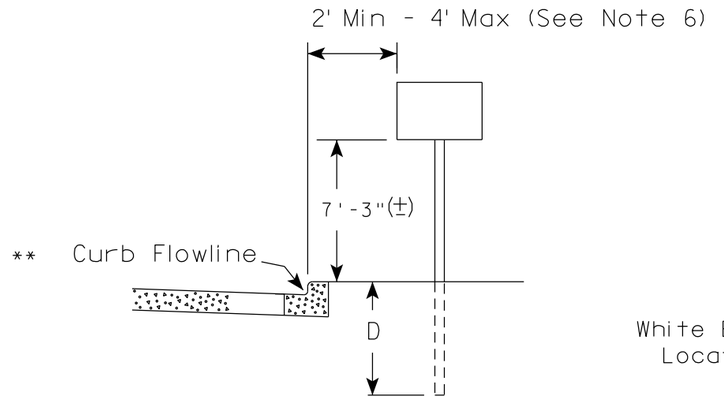
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

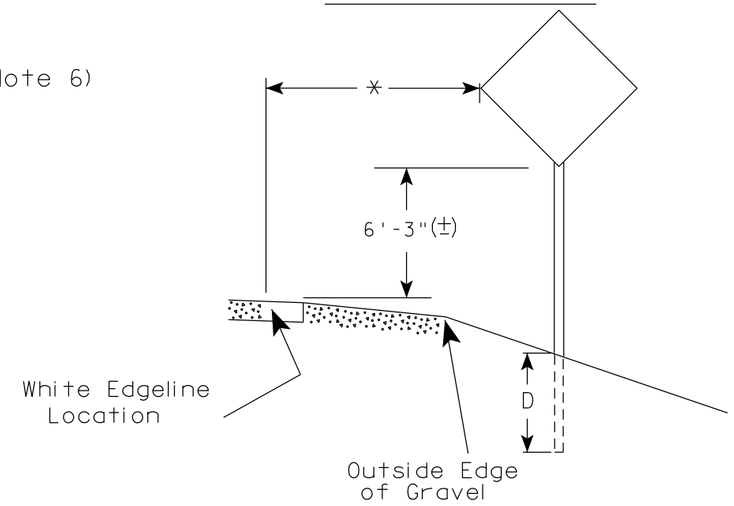
PROJECT NO:

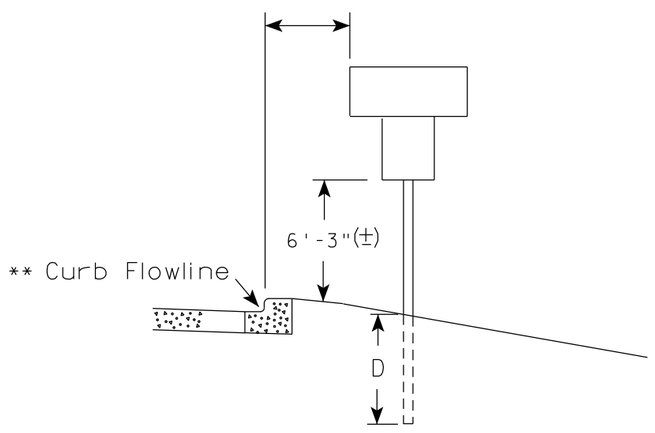
SHEET NO: 549 E

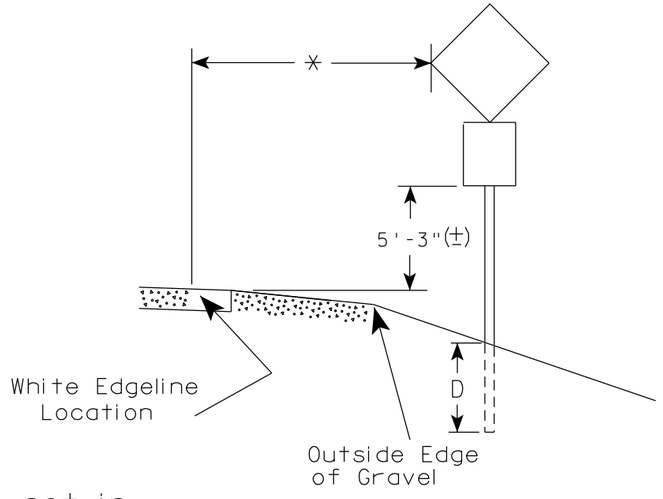
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

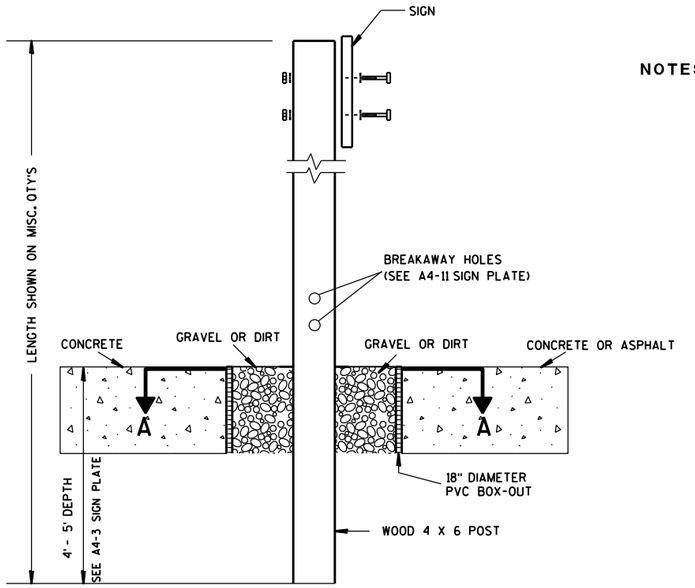
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

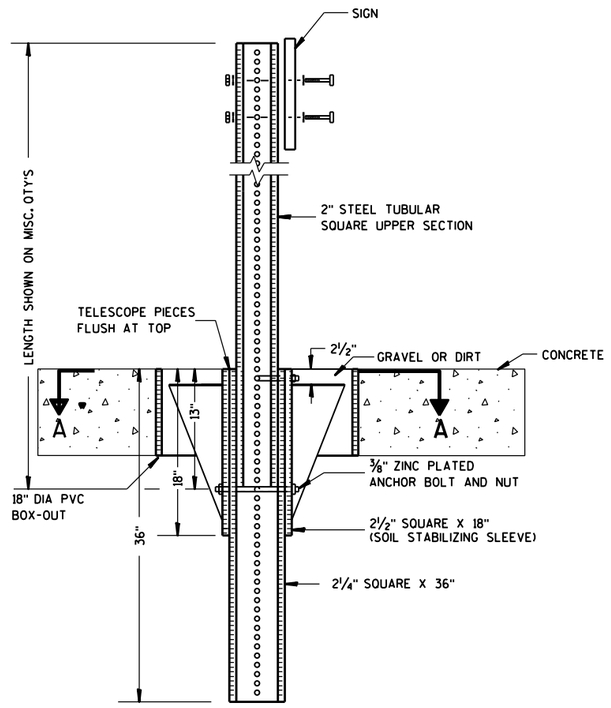
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 550	E



ELEVATION VIEW

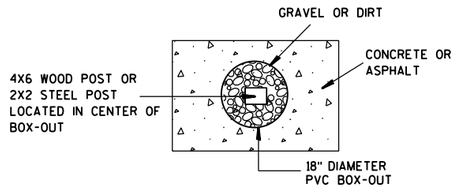
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

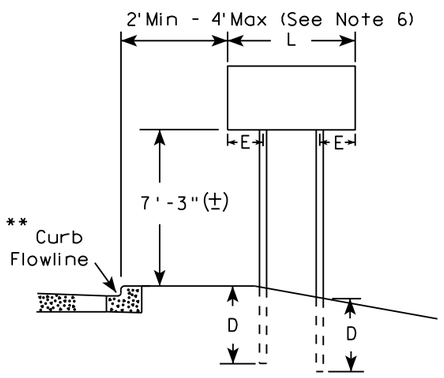
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

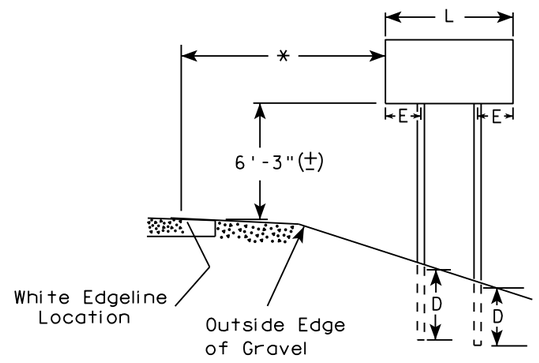
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

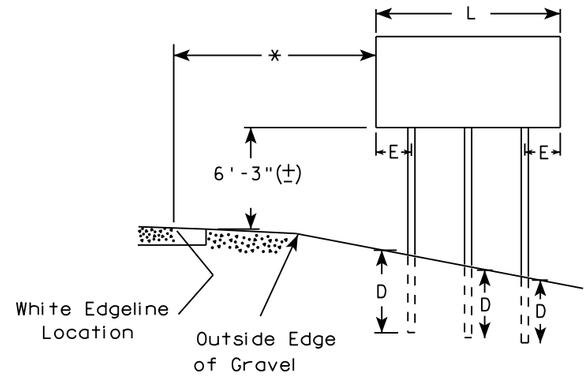
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

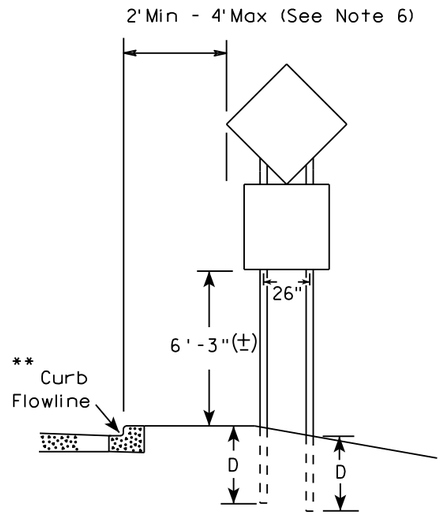
URBAN AREA



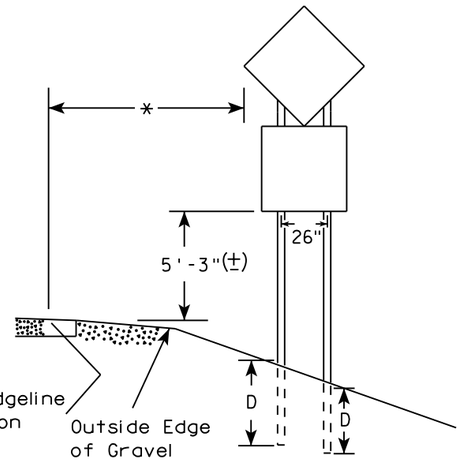
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

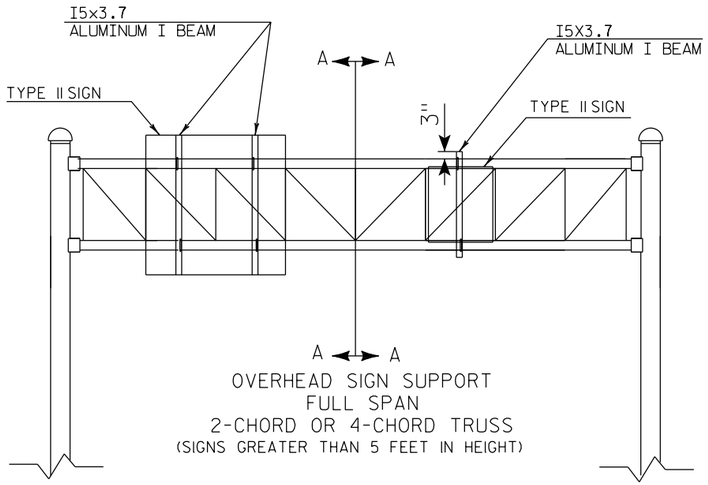
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

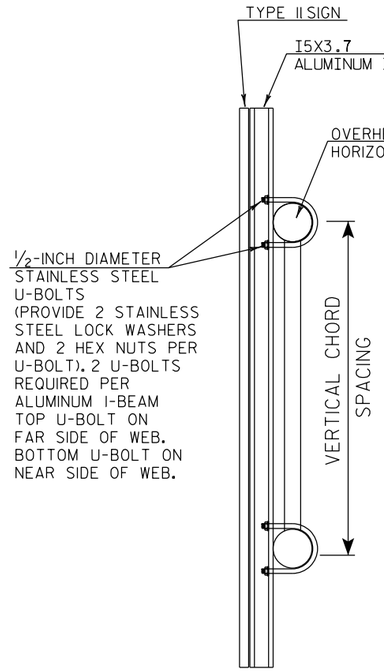
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

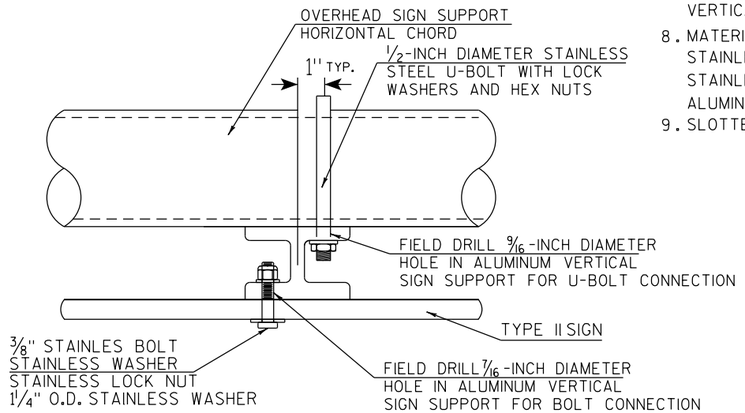
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 552	E



OVERHEAD SIGN SUPPORT
FULL SPAN
2-CHORD OR 4-CHORD TRUSS
(SIGNS GREATER THAN 5 FEET IN HEIGHT)



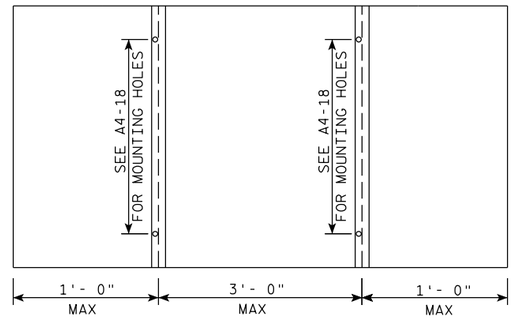
CUT SECTION A-A



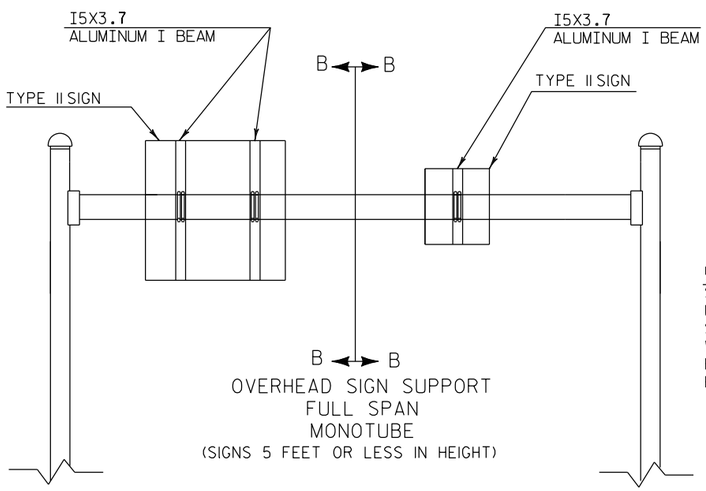
TYPICAL SIGN CONNECTION FOR
2-CHORD OR 4-CHORD TRUSS
PLAN VIEW

GENERAL NOTES

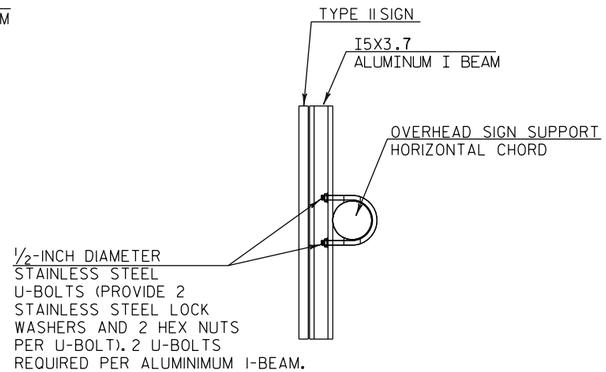
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE STAINLESS BOLTS AT BOLT HOLES IN SIGN PANEL PER SIGN PLATE A4-18.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS, BOLTS, AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



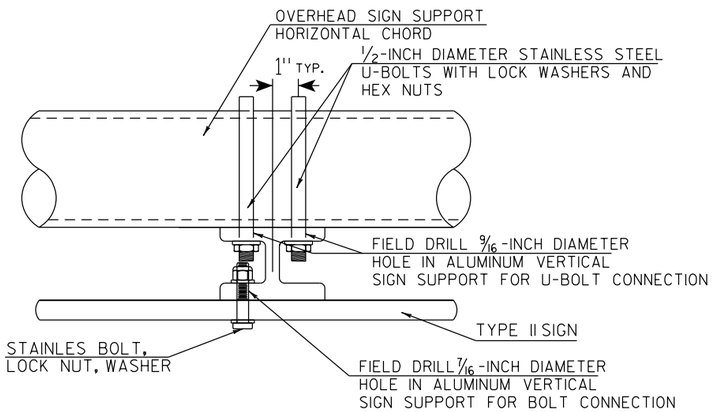
SPACING OF I5X3.7 ALUMINUM
MULTIPLE VERTICAL SIGN SUPPORTS



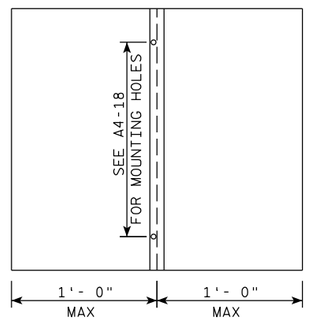
OVERHEAD SIGN SUPPORT
FULL SPAN
MONOTUBE
(SIGNS 5 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
MONOTUBE
PLAN VIEW



SPACING OF I5X3.7 ALUMINUM
SINGLE VERTICAL SIGN SUPPORT

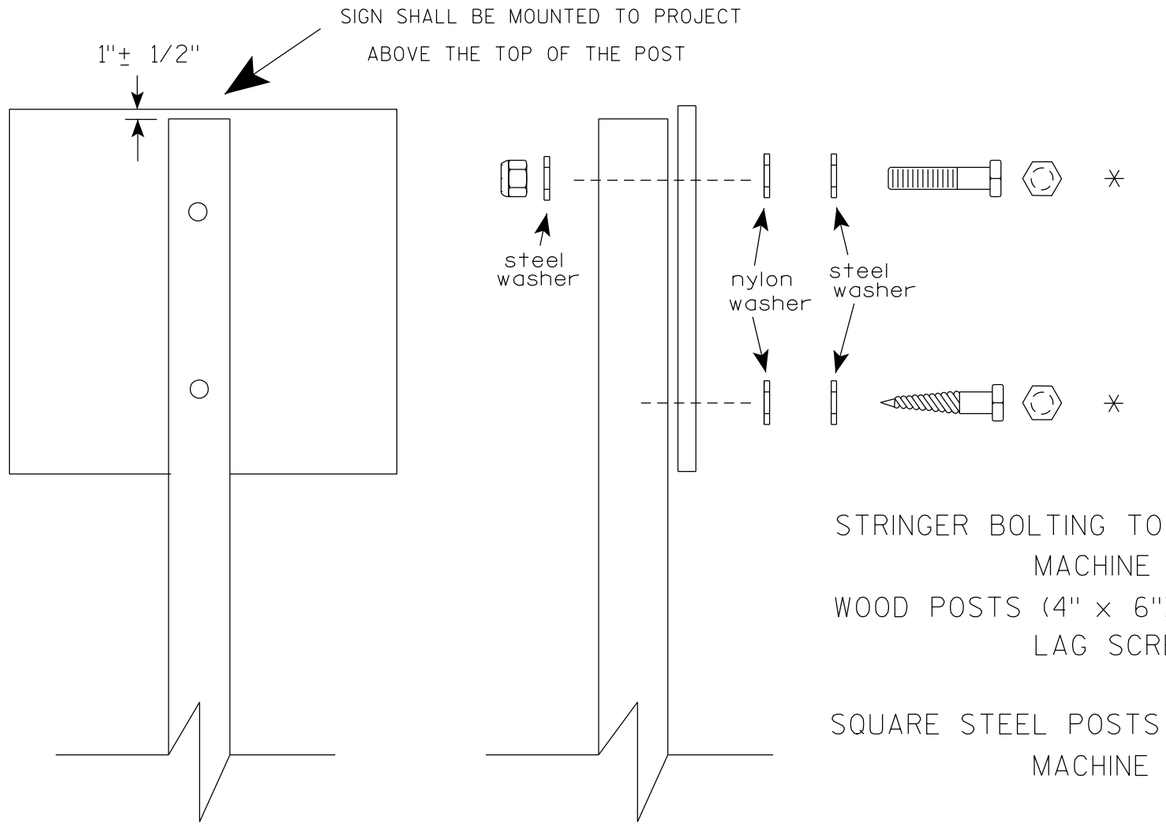
TYPE II SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/07/20 PLATE NO. A4-7B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 553	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

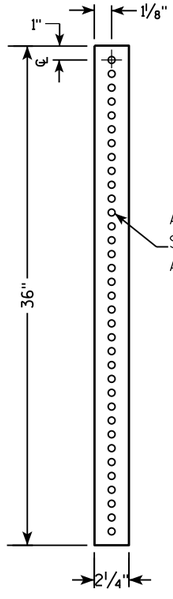
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

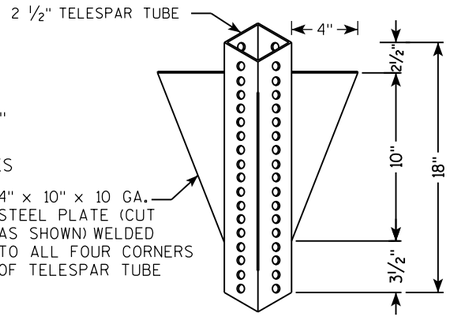
SHEET NO: 554 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

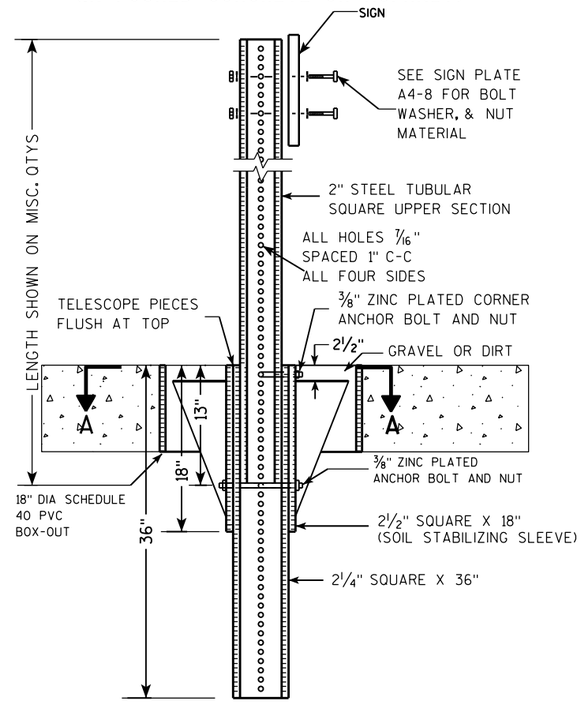
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



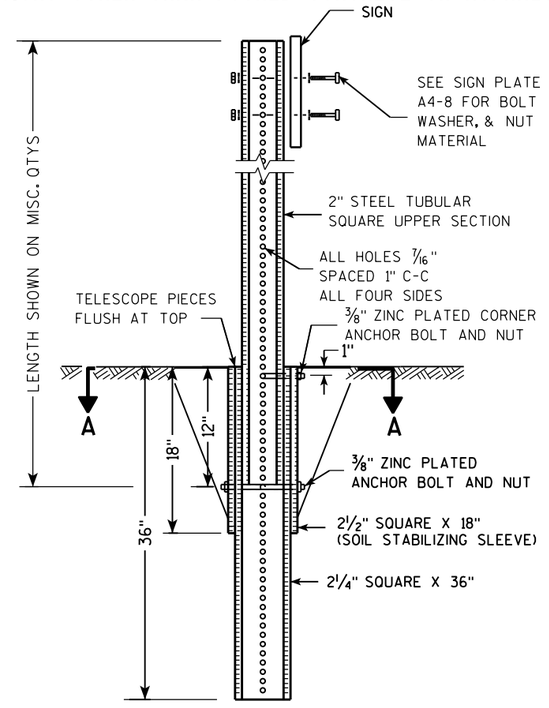
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

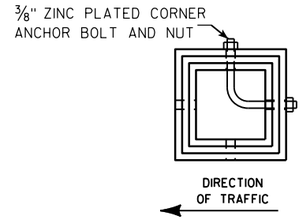


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

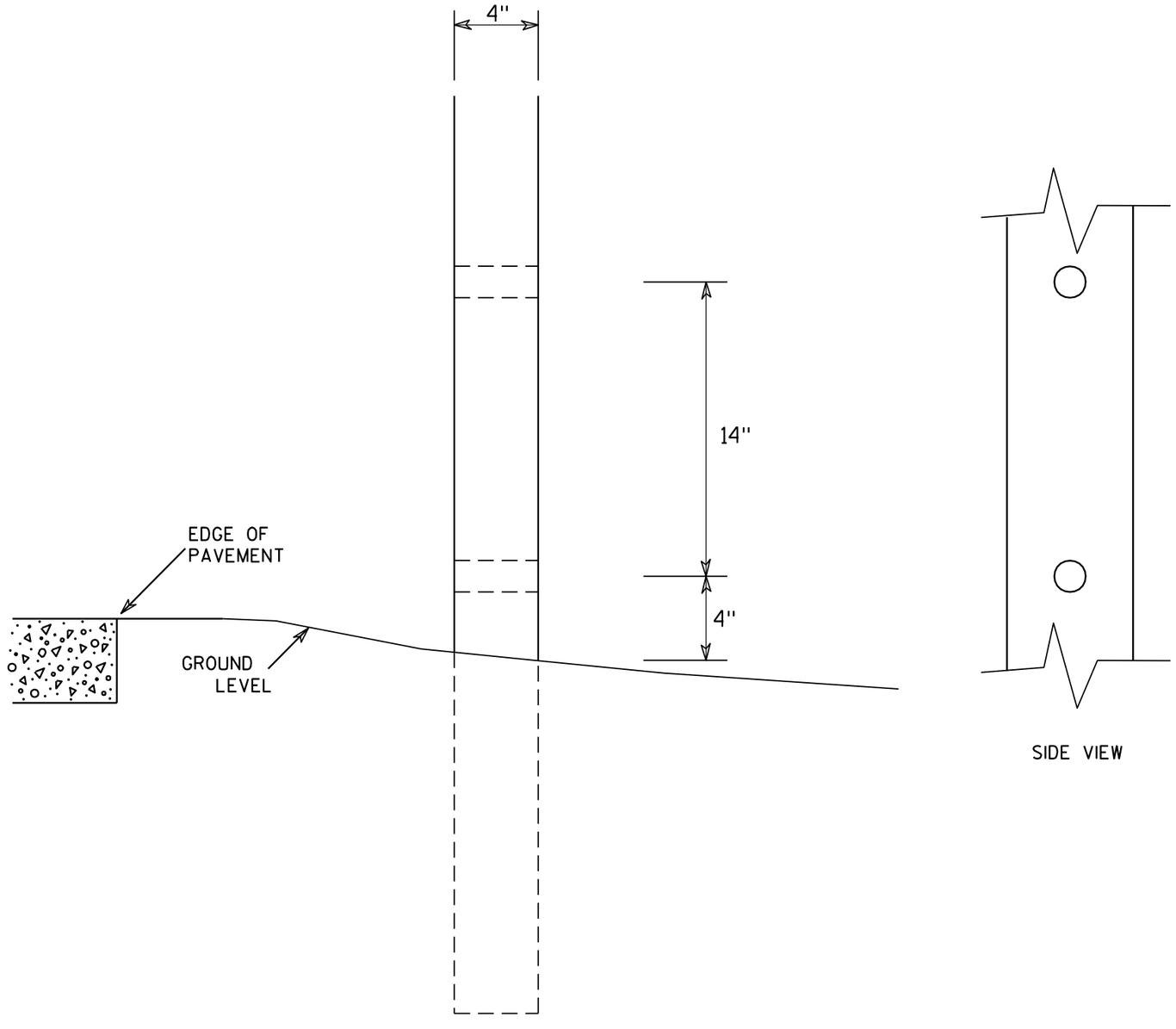
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 555 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

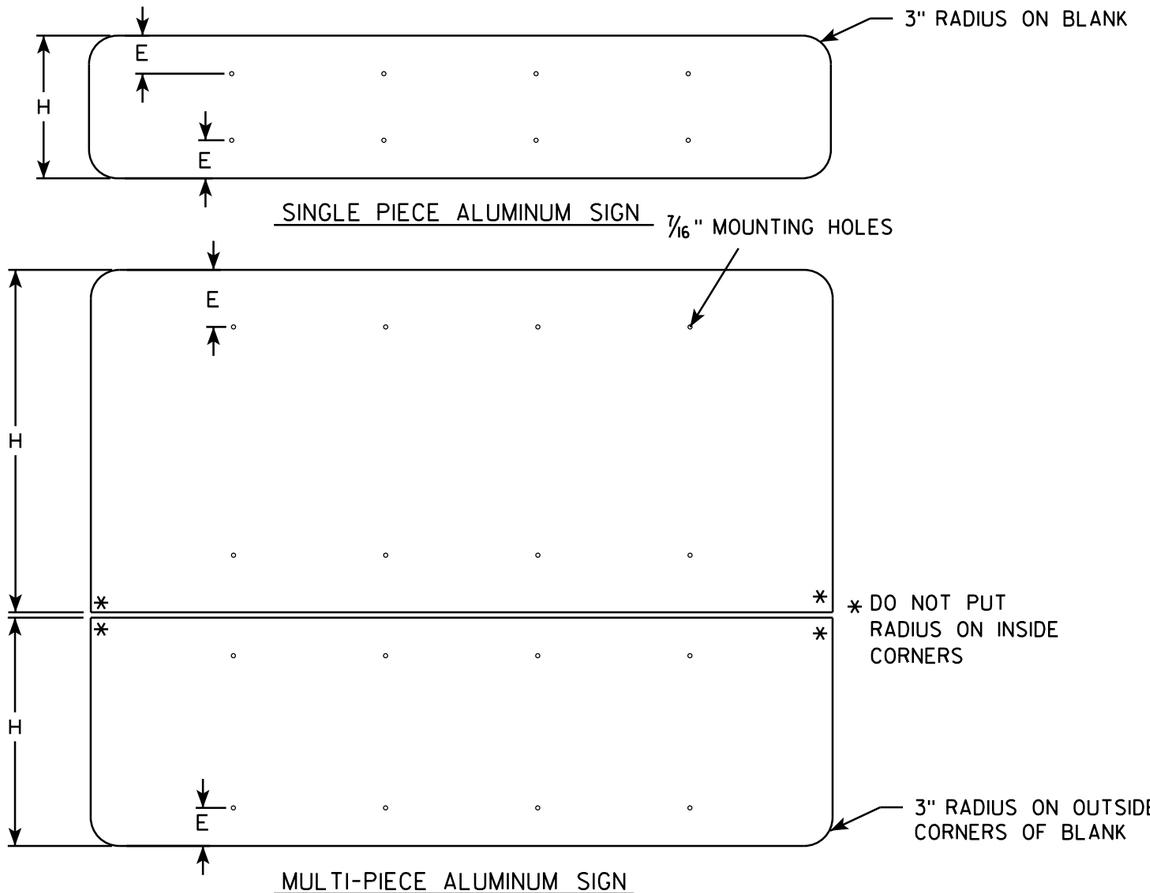
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

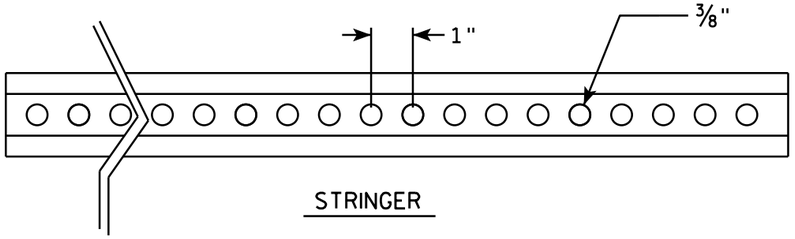
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 556	E



GENERAL NOTES

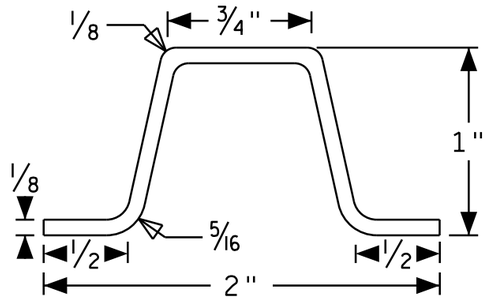
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

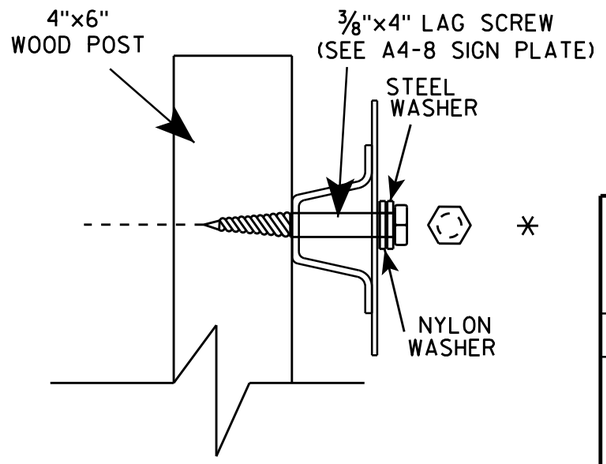


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

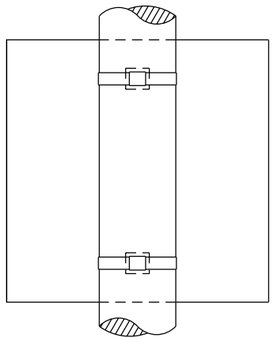
DATE 4/26/16 PLATE NO A4-18.1

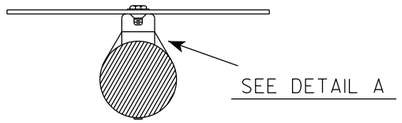
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

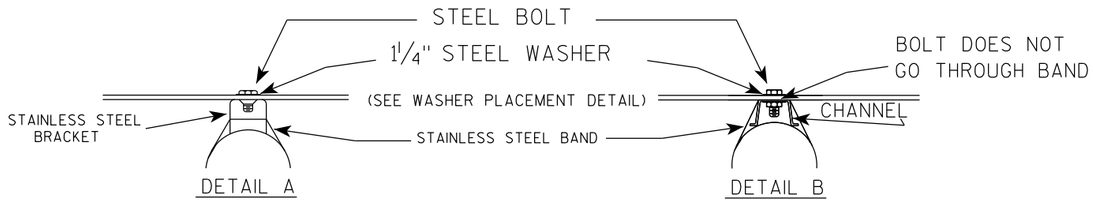
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000

BANDING

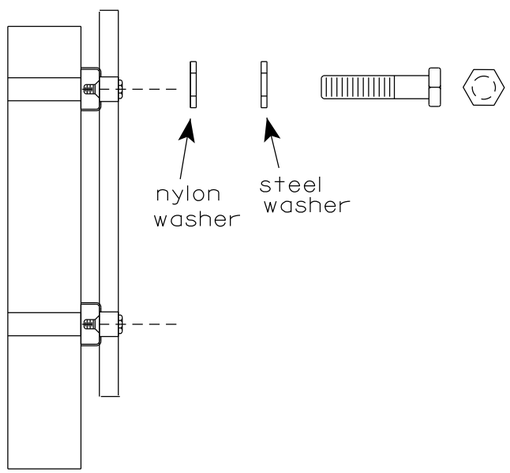
SINGLE SIGN







WASHER PLACEMENT

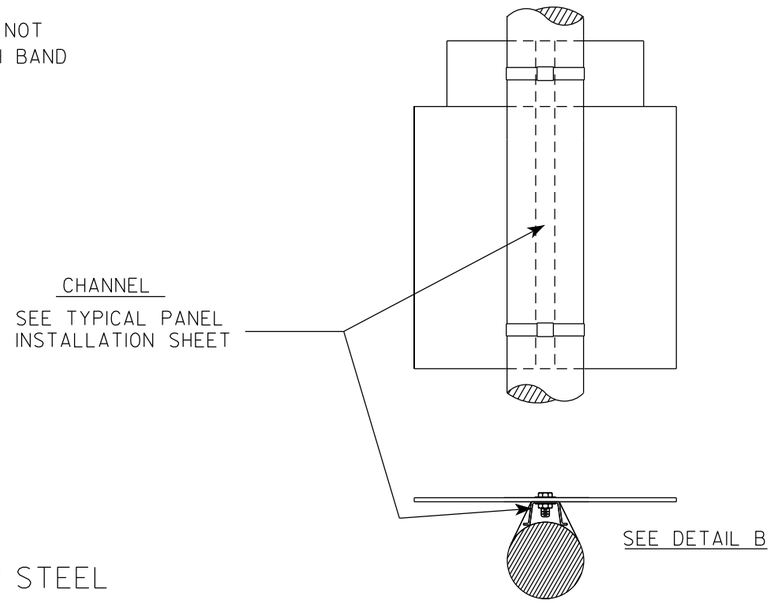


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

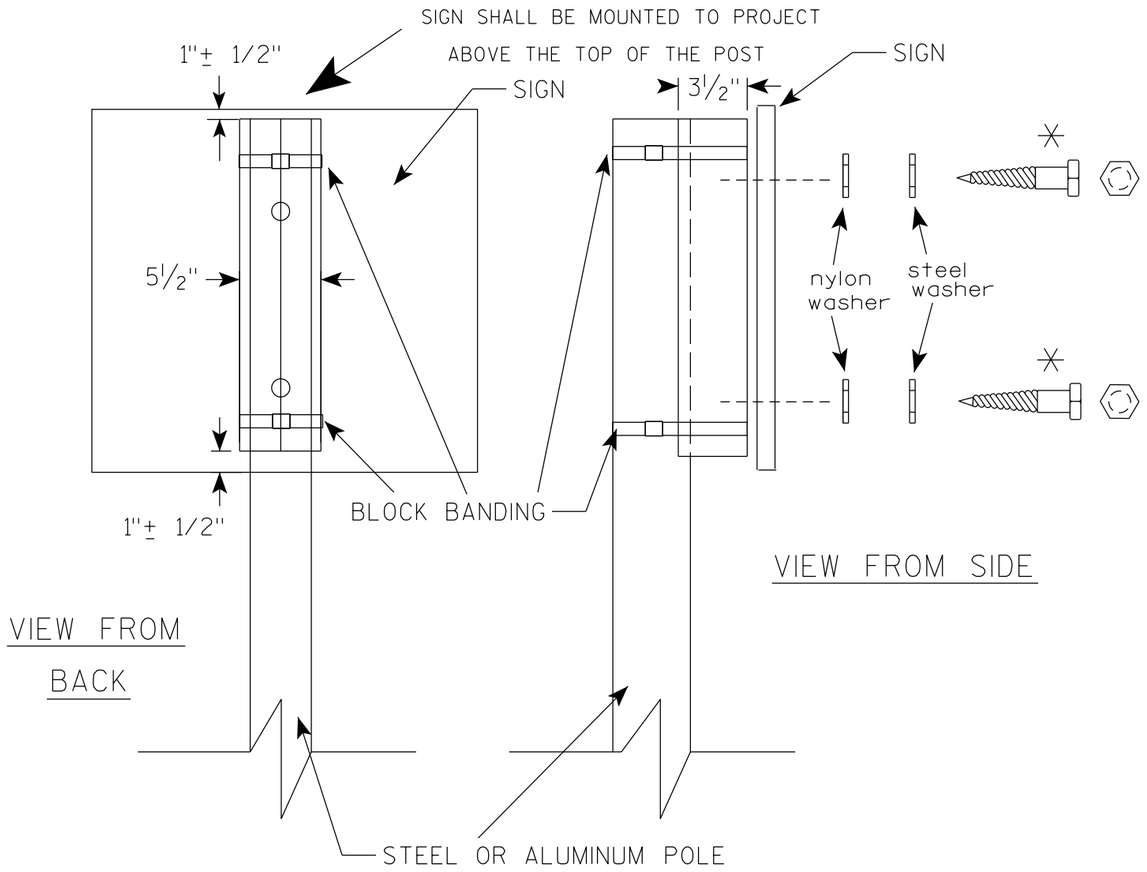
DATE 6/10/19 PLATE NO. A5-9.4

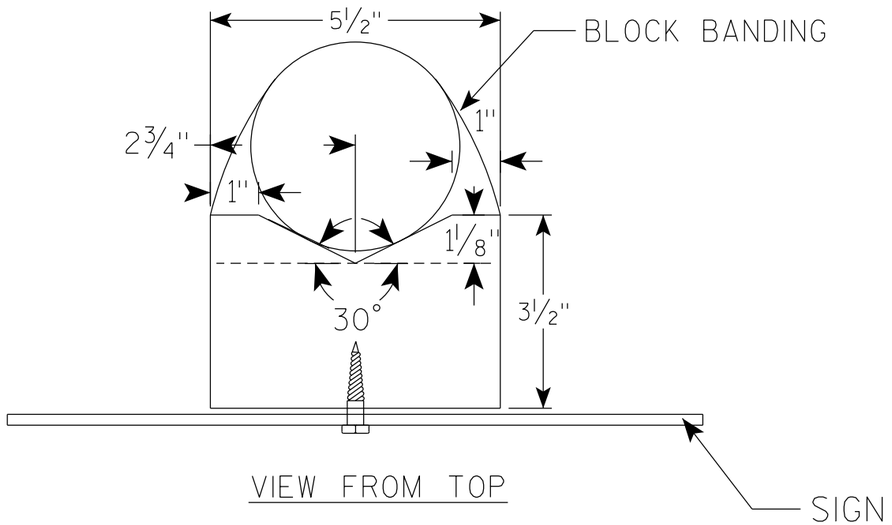
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 558	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 559 E



D12-50

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
3. Message Series - B for Line 1
   Series C for Lines 2 & 3
4. Substitute appropriate LOGO which may not exceed 12 inches by 12 inches, see TGM policy 2-4-48.1 for acceptable logos.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	36		1 3/8		1/2	4	12	13 1/4	12	2	1 1/4	13 5/8	13														9.0
3																											
4																											
5																											

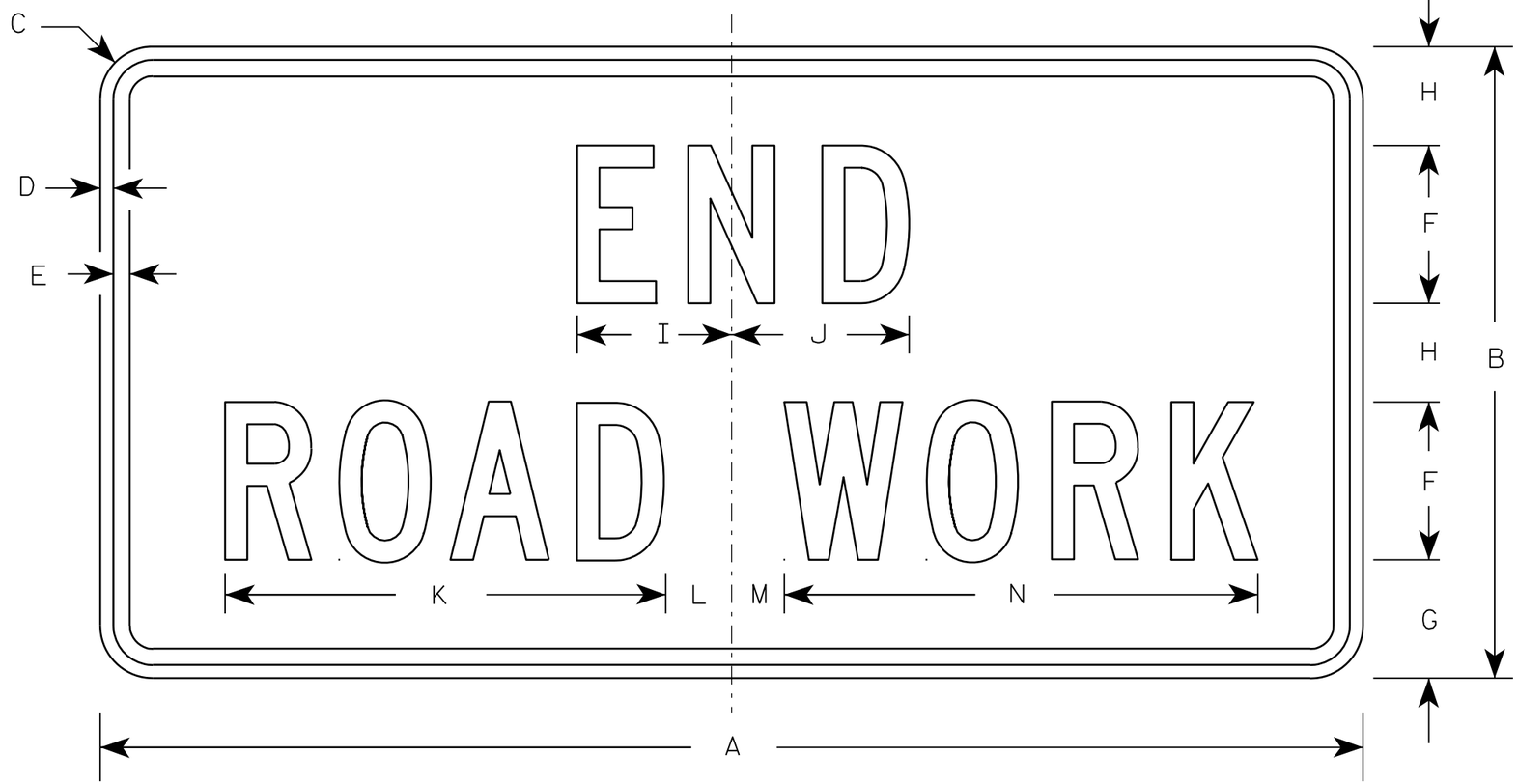
STANDARD SIGN
D12-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/19 PLATE NO. D12-50.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 560 | E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

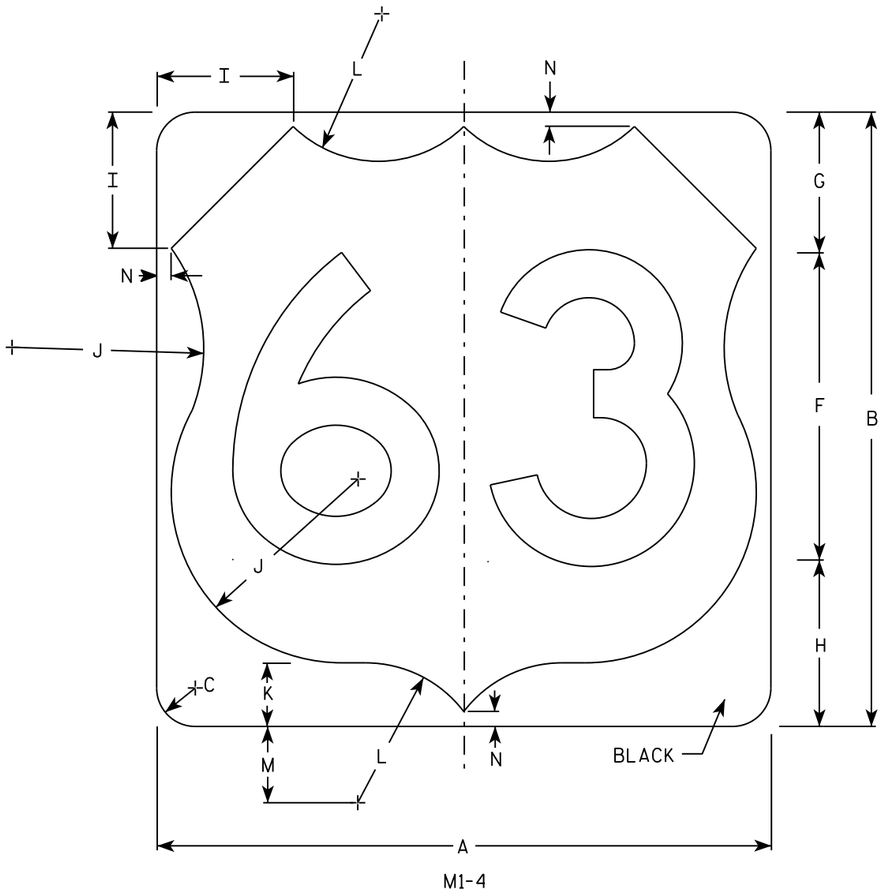
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

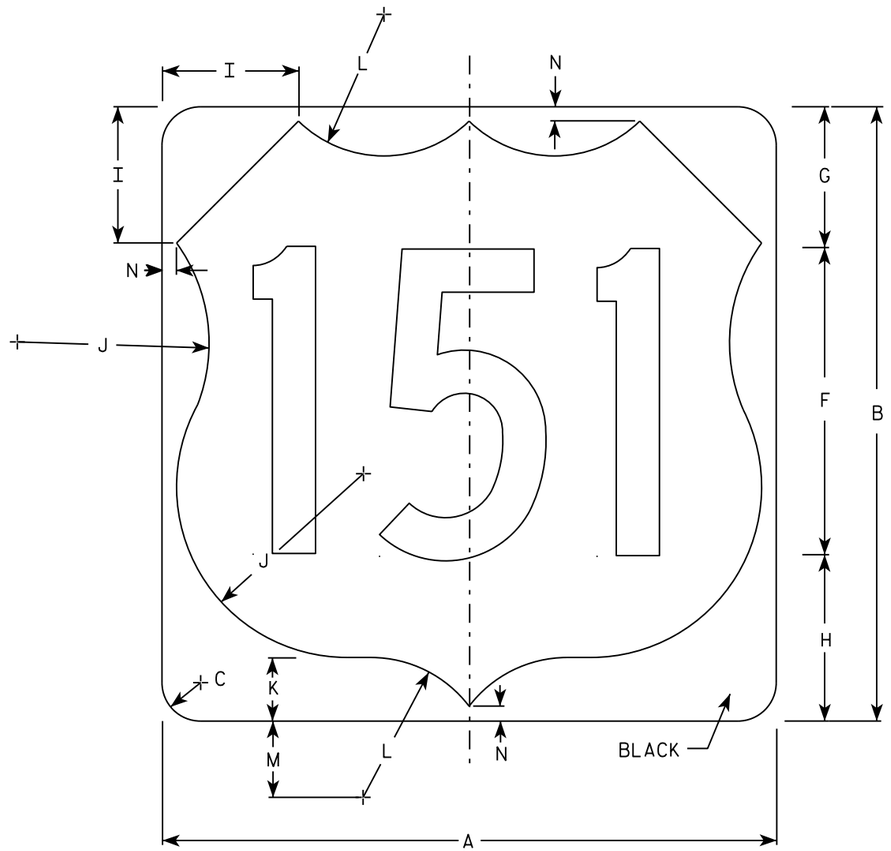
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 561	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M1-4



M1-4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. ft.
1																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

USH MARKER
M1-4 FOR ASSEMBLIES

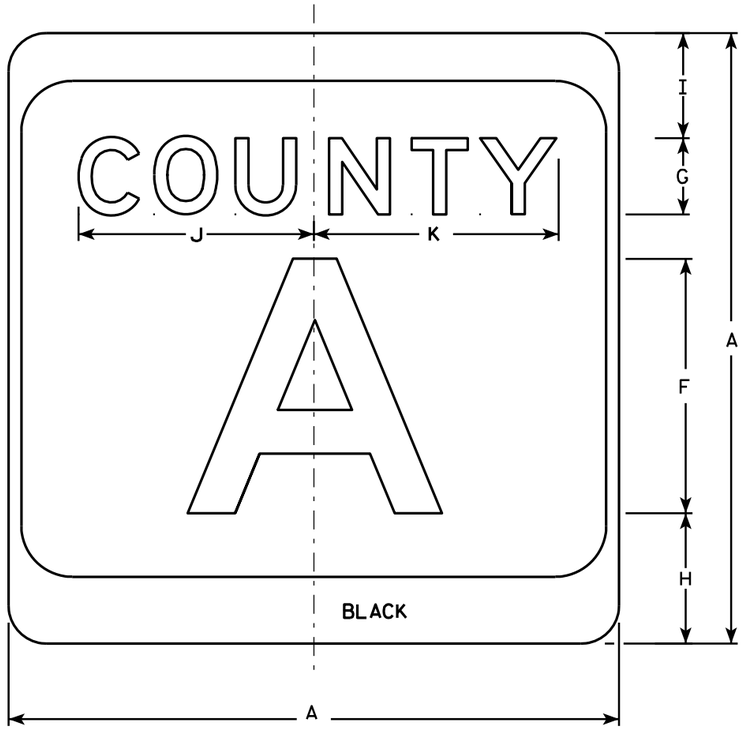
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

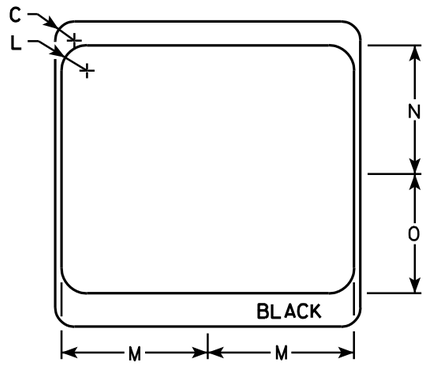
DATE 3/16/18 PLATE NO. M1-4.10

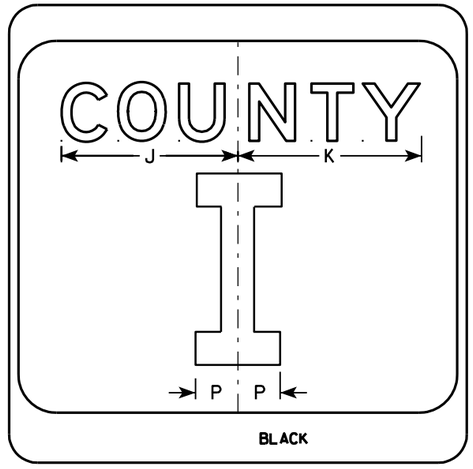
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 562 | E

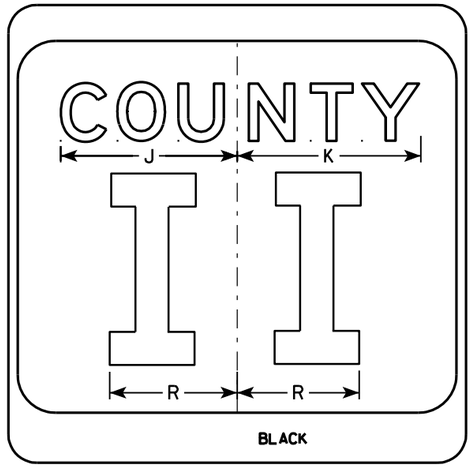
7



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

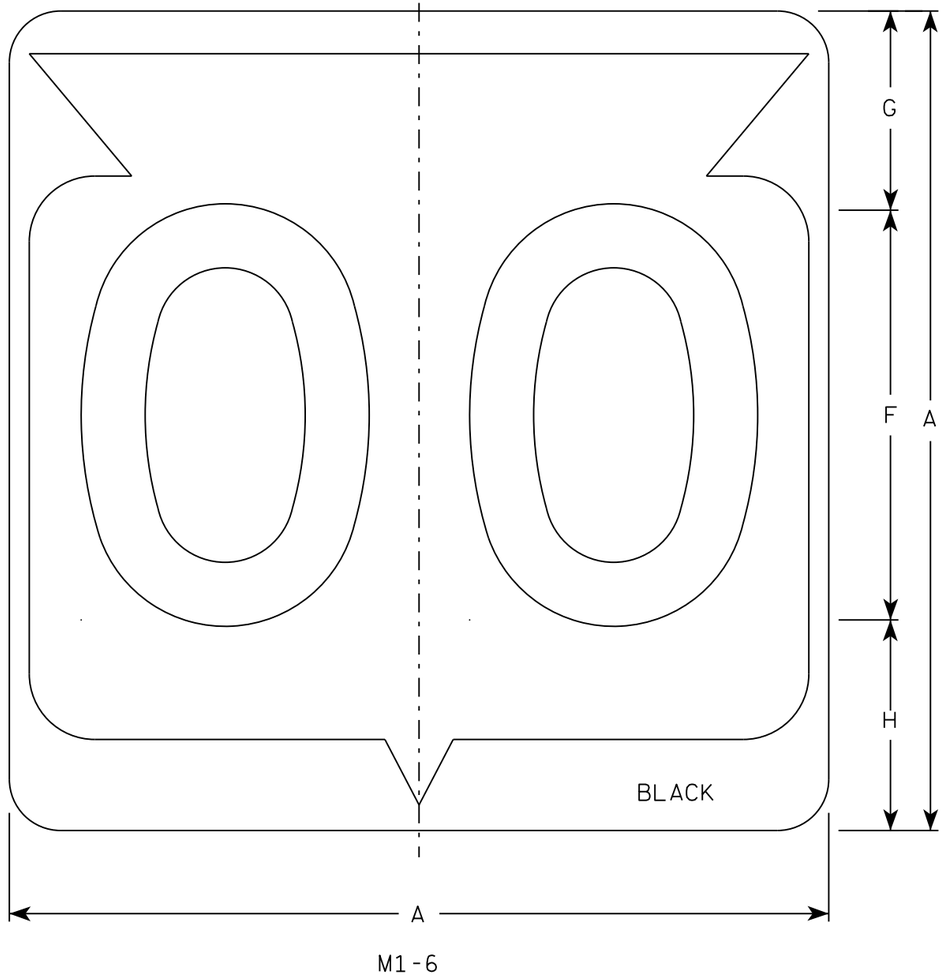
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

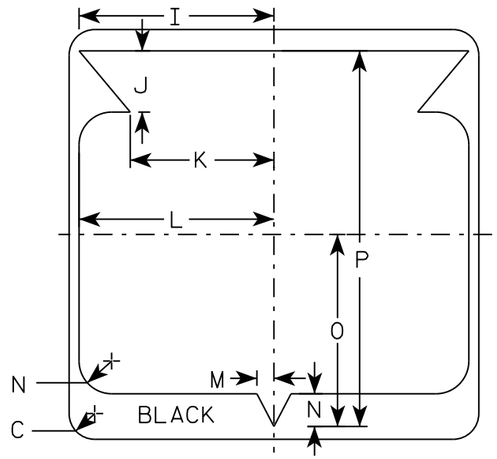
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 563	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

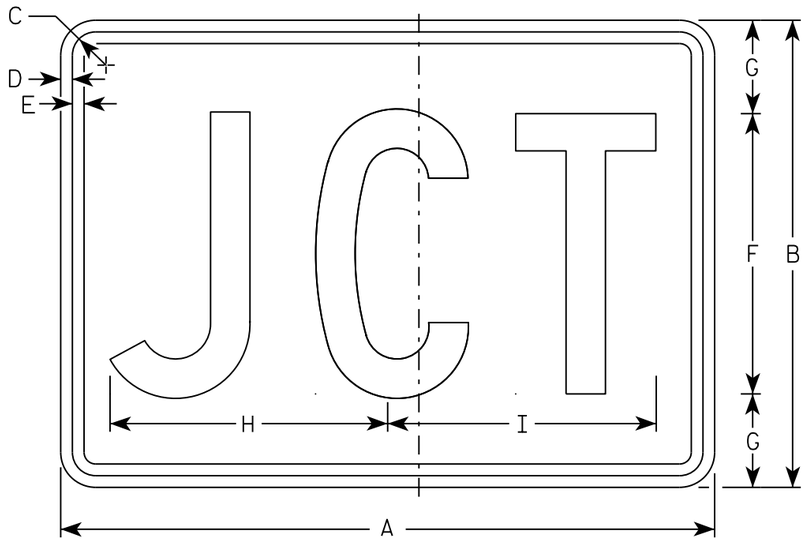
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

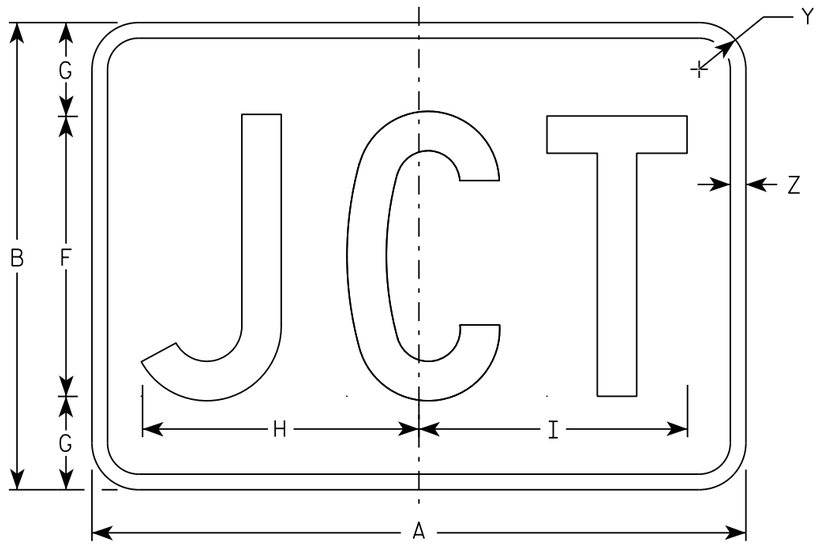
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 564	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

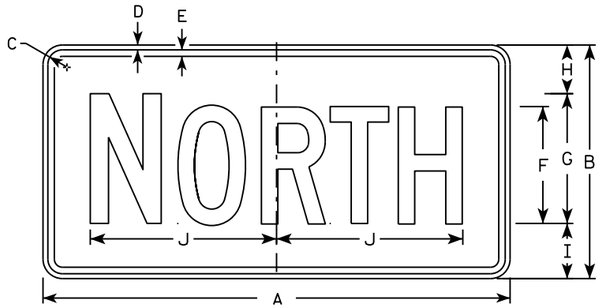
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

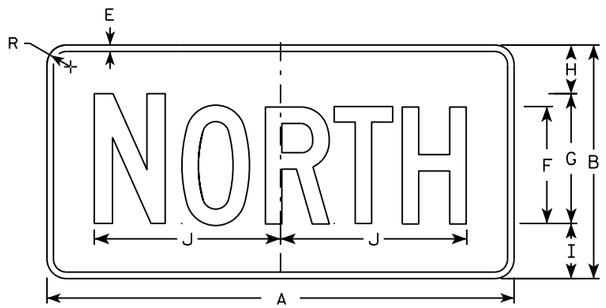
DATE 10/15/15 PLATE 565 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



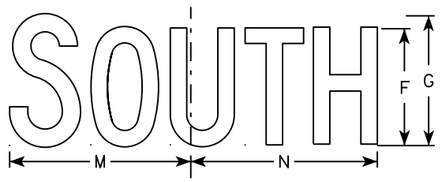
MB3-1
MK3-1
MN3-1



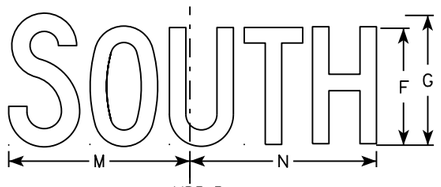
M3-2
MM3-2
MP3-2



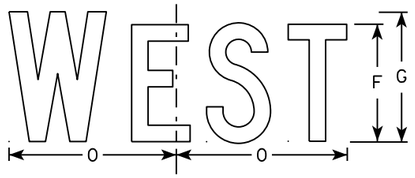
MB3-2
MK3-2
MN3-2



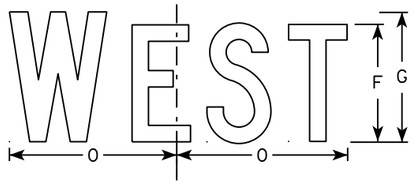
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

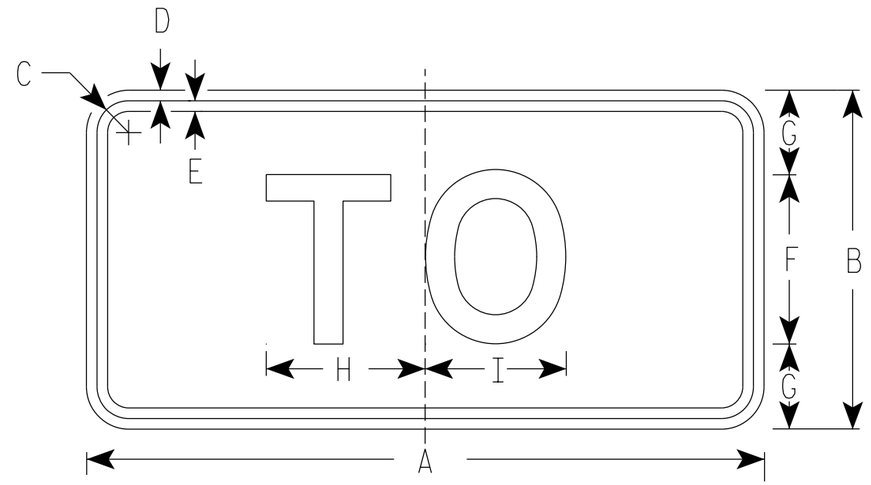
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

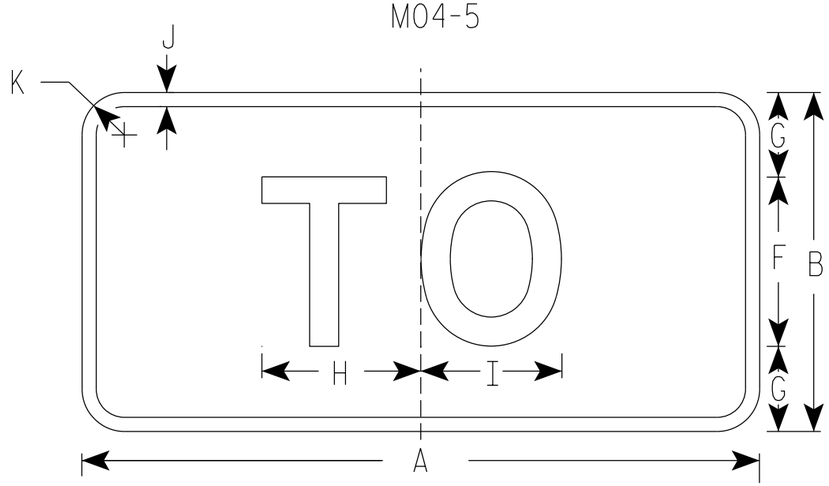
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

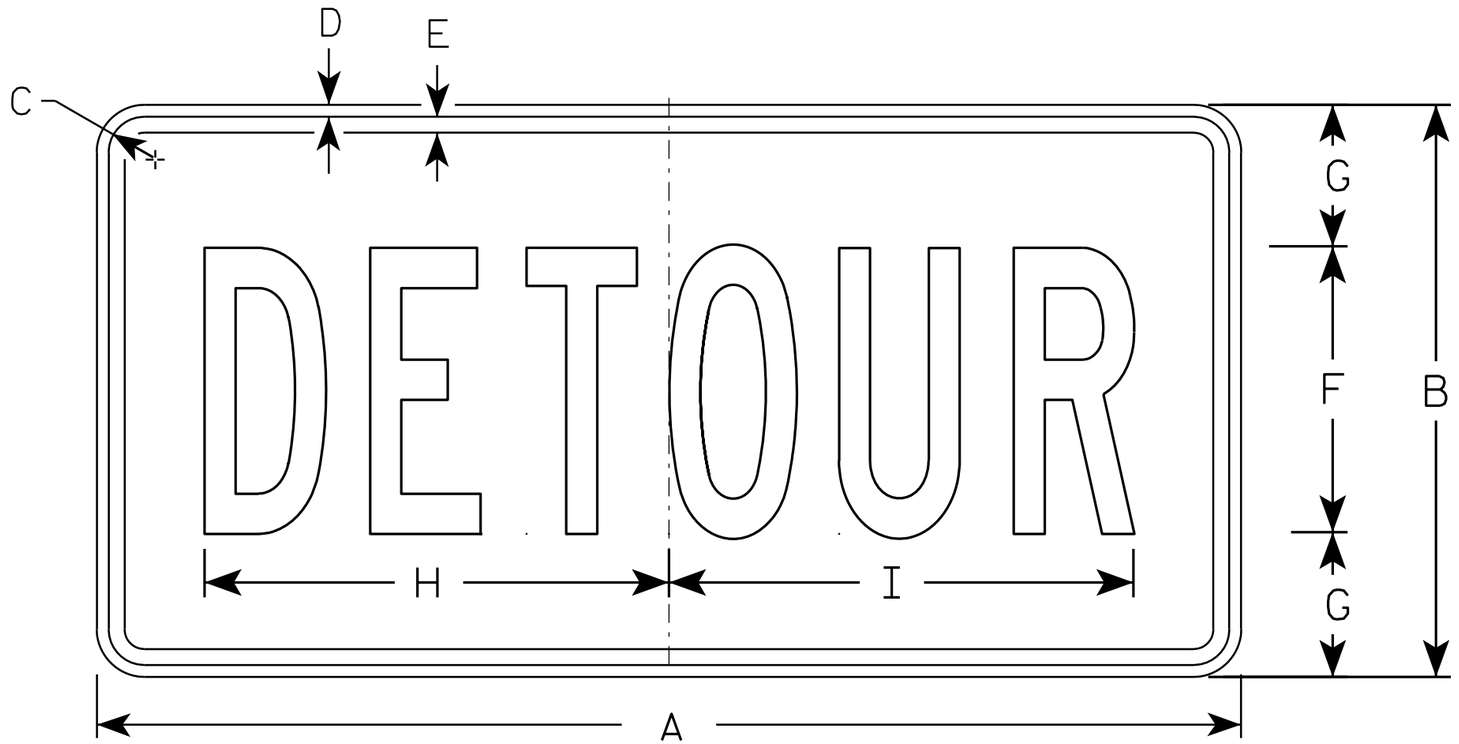
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 567 | E



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

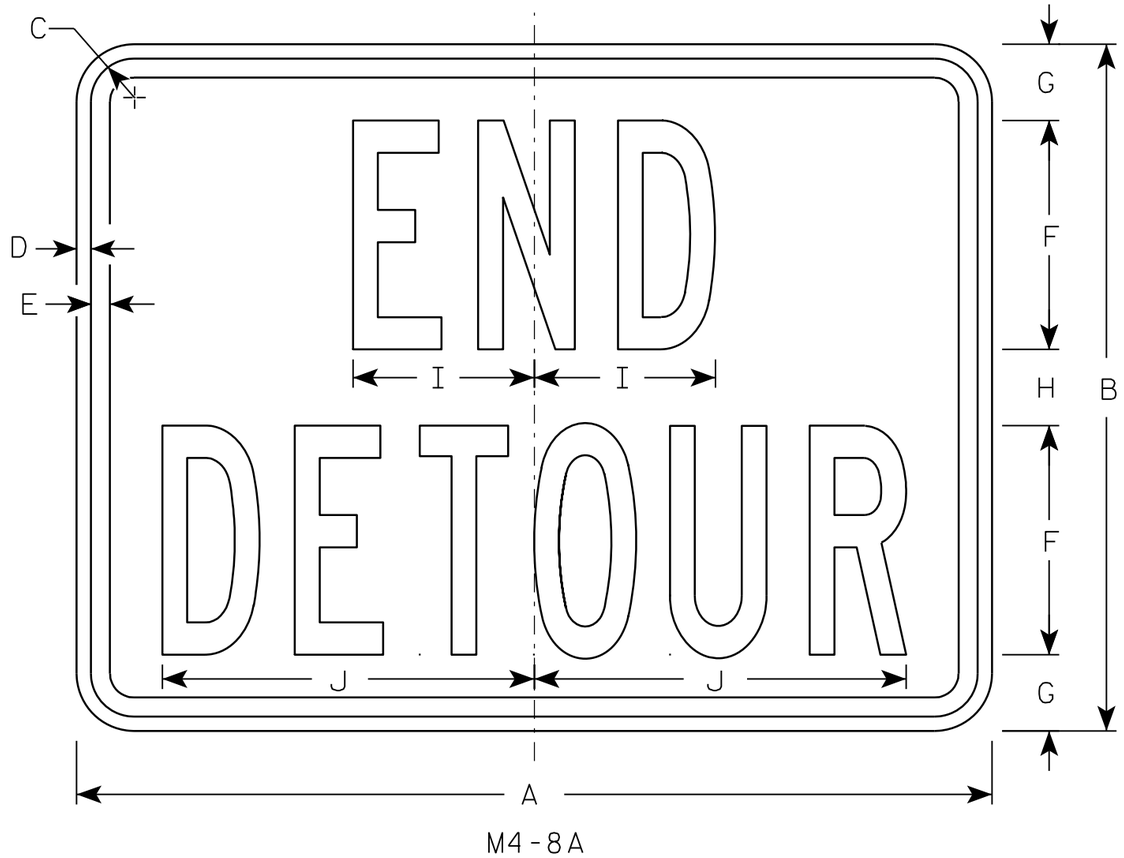
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 568	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

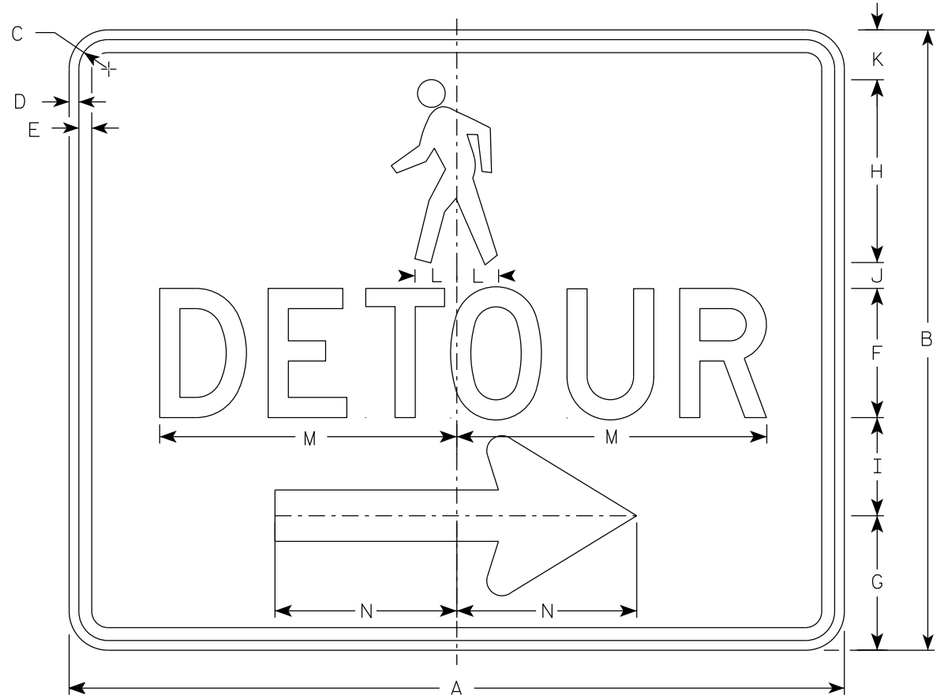
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

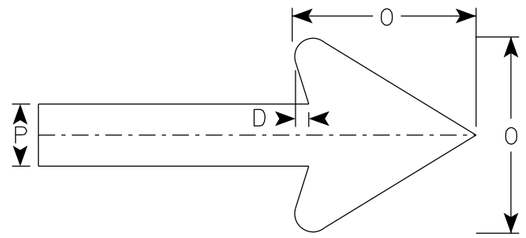
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 569	E



M4-9BR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

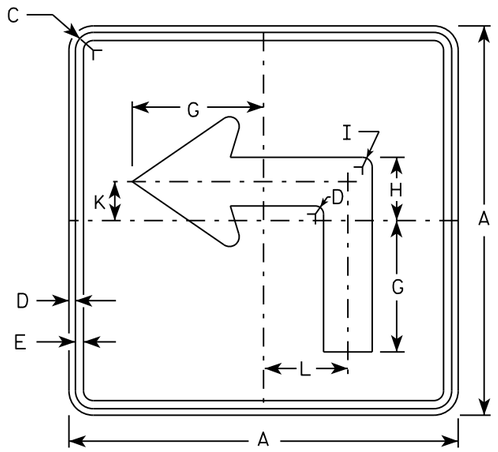
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

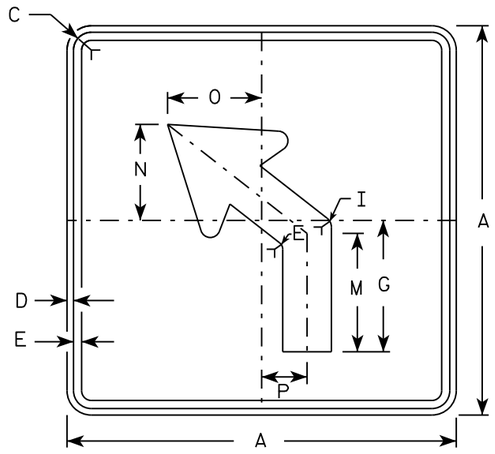
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/1/19 PLATE NO. M4-9B.2

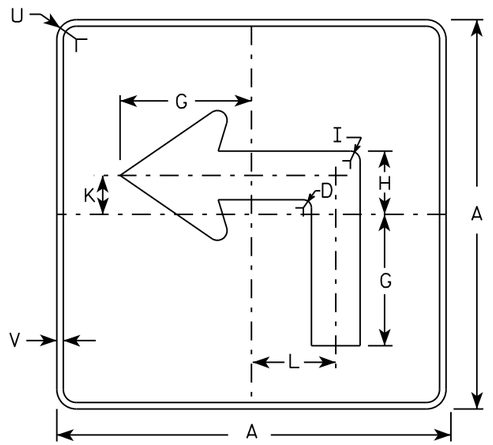
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 570 | E



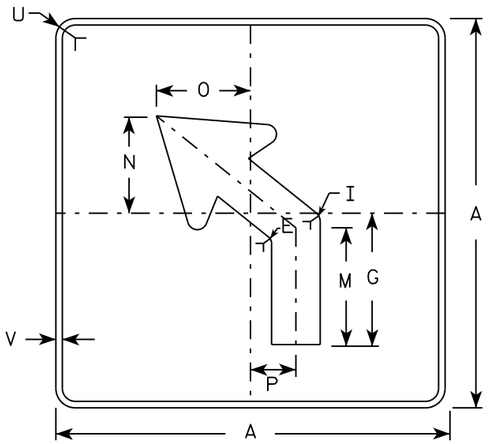
M5-1L
MM5-1L
MO5-1L
MP5-1L



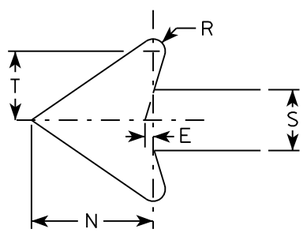
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

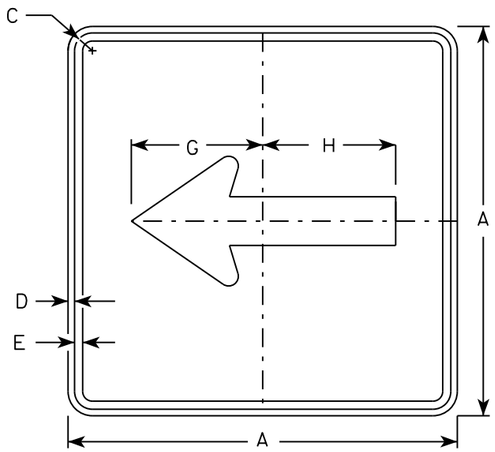
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

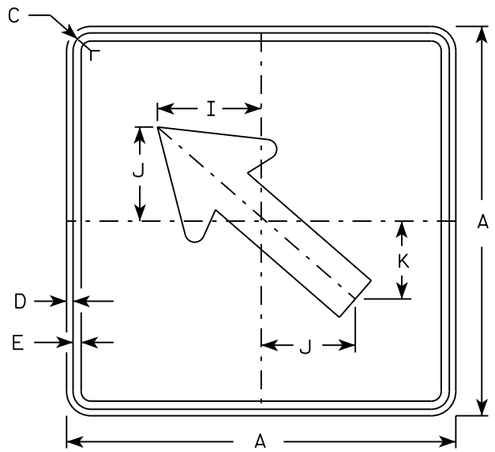
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



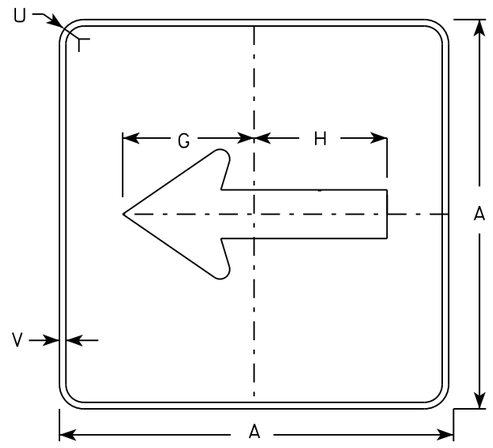
M6-1
MM6-1
MO6-1
MP6-1



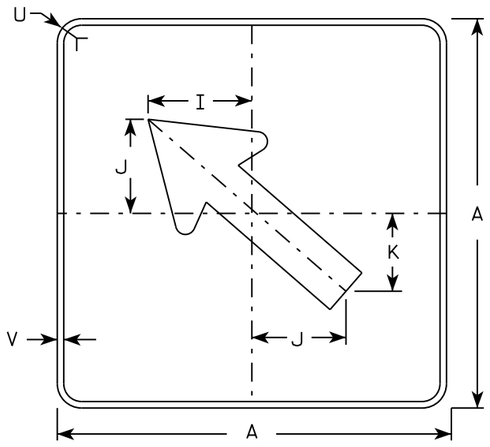
M6-2
MM6-2
MO6-2
MP6-2

NOTES

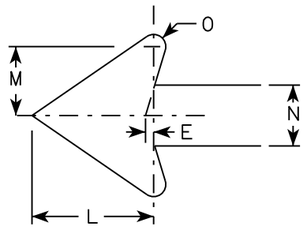
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

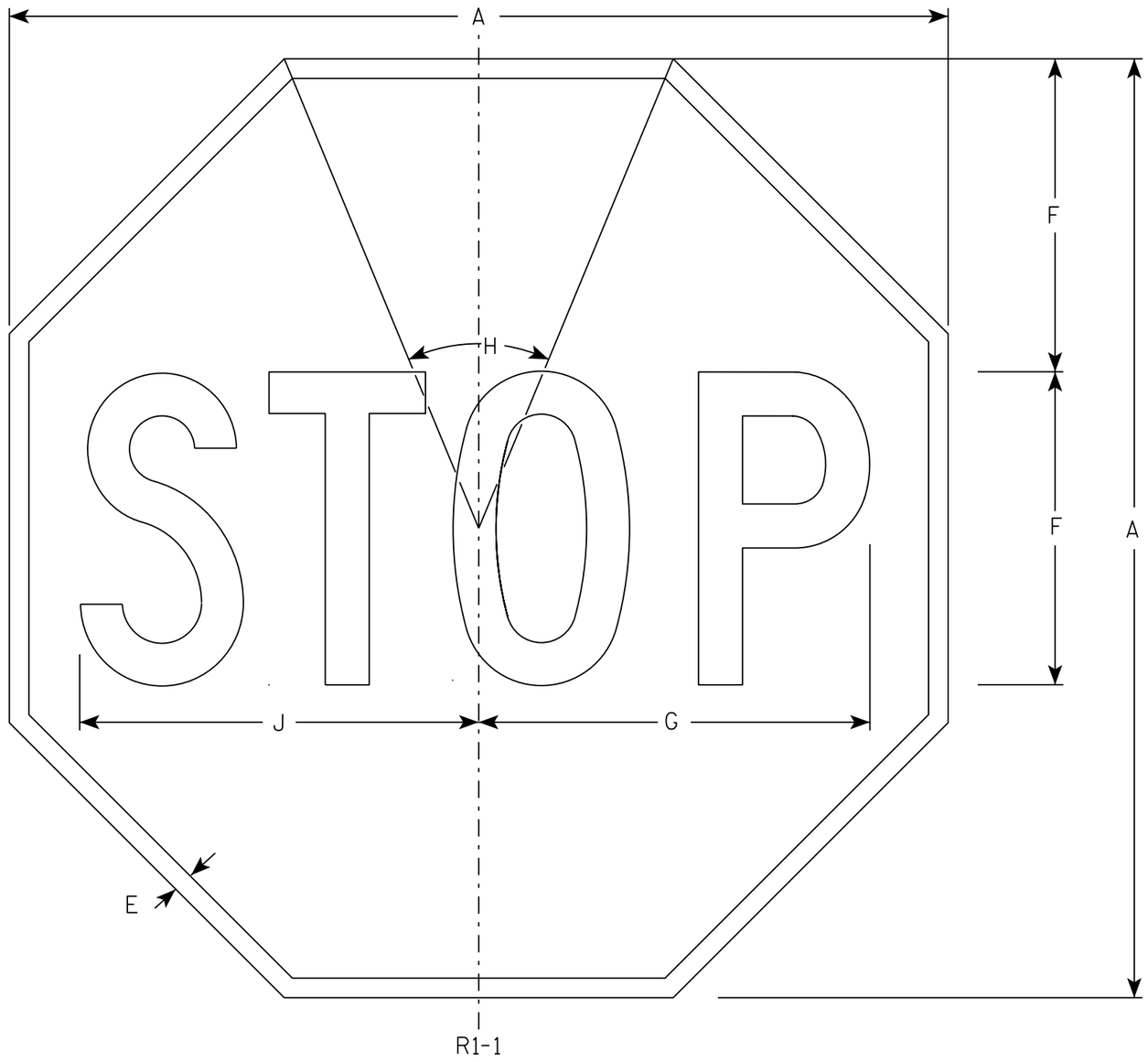
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLAT 572 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

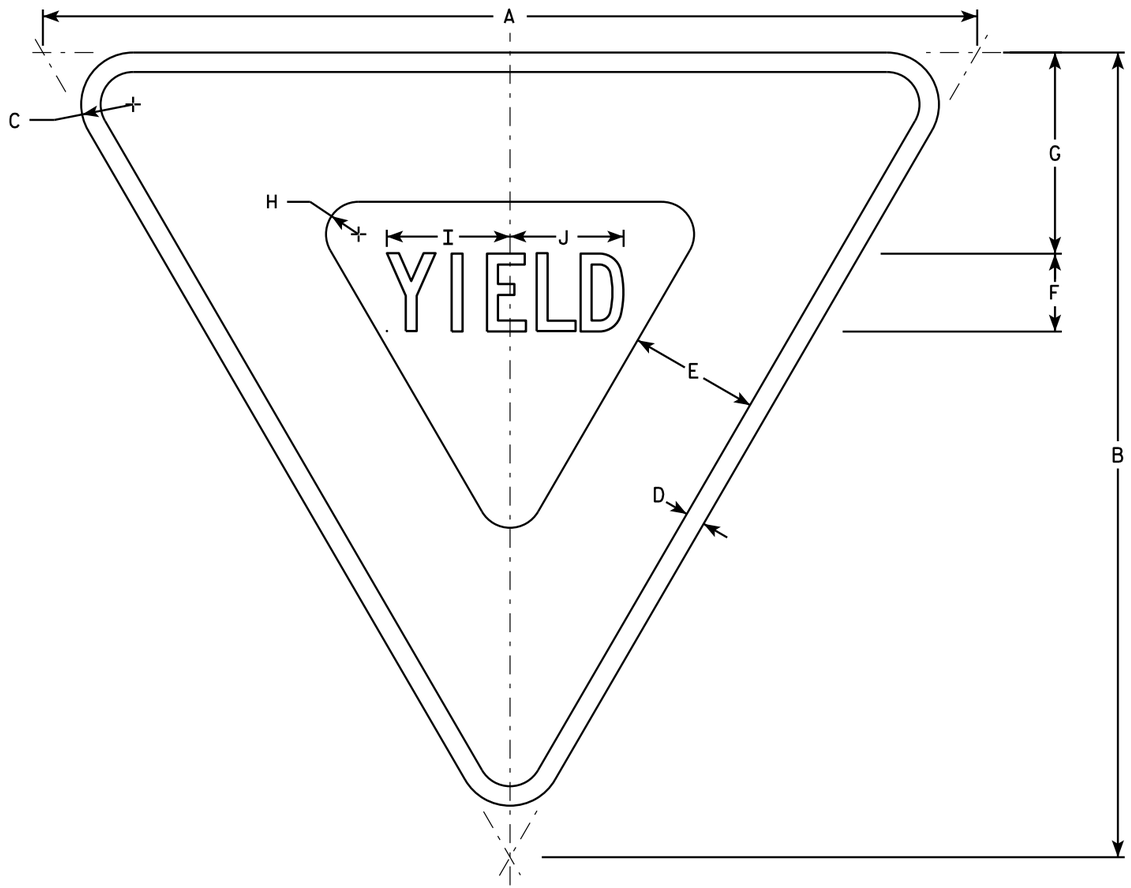
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 573	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

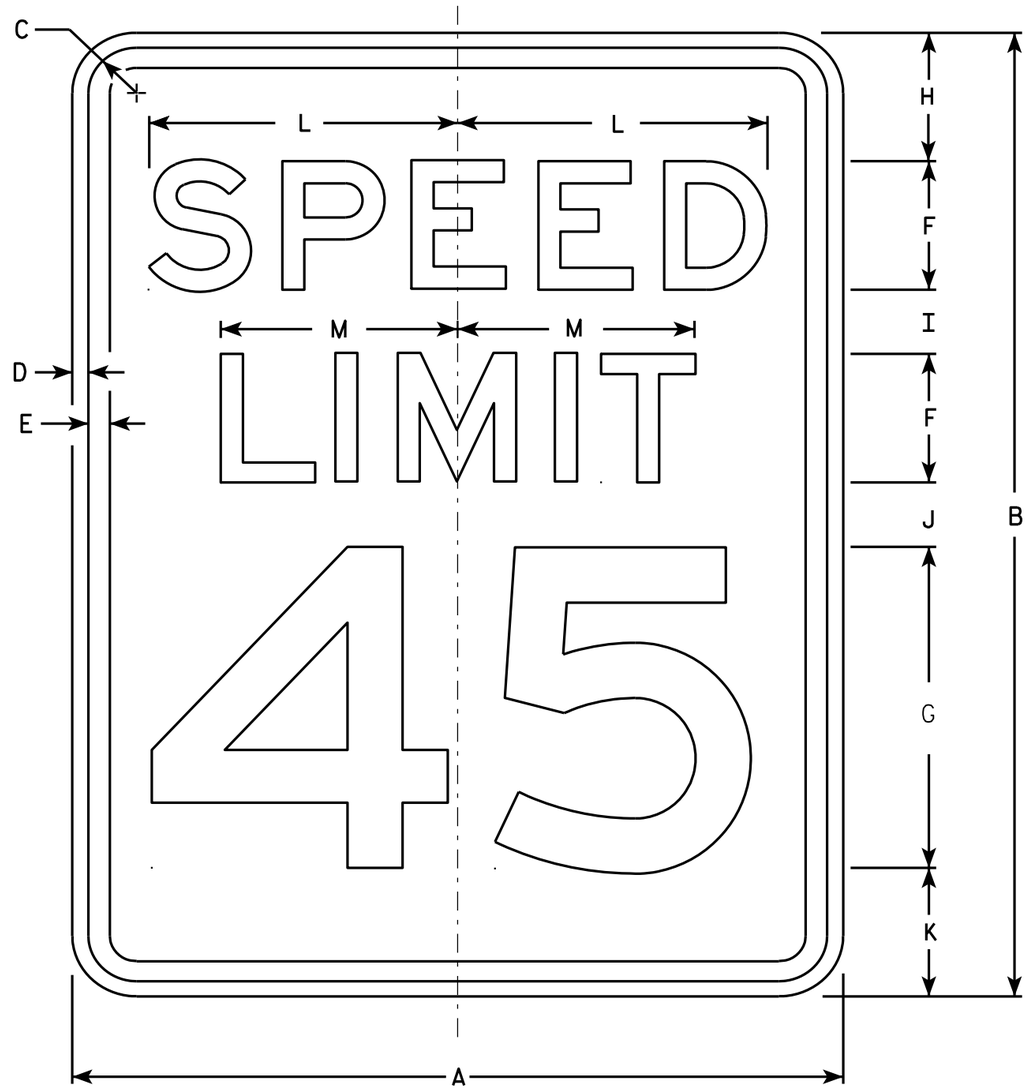
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

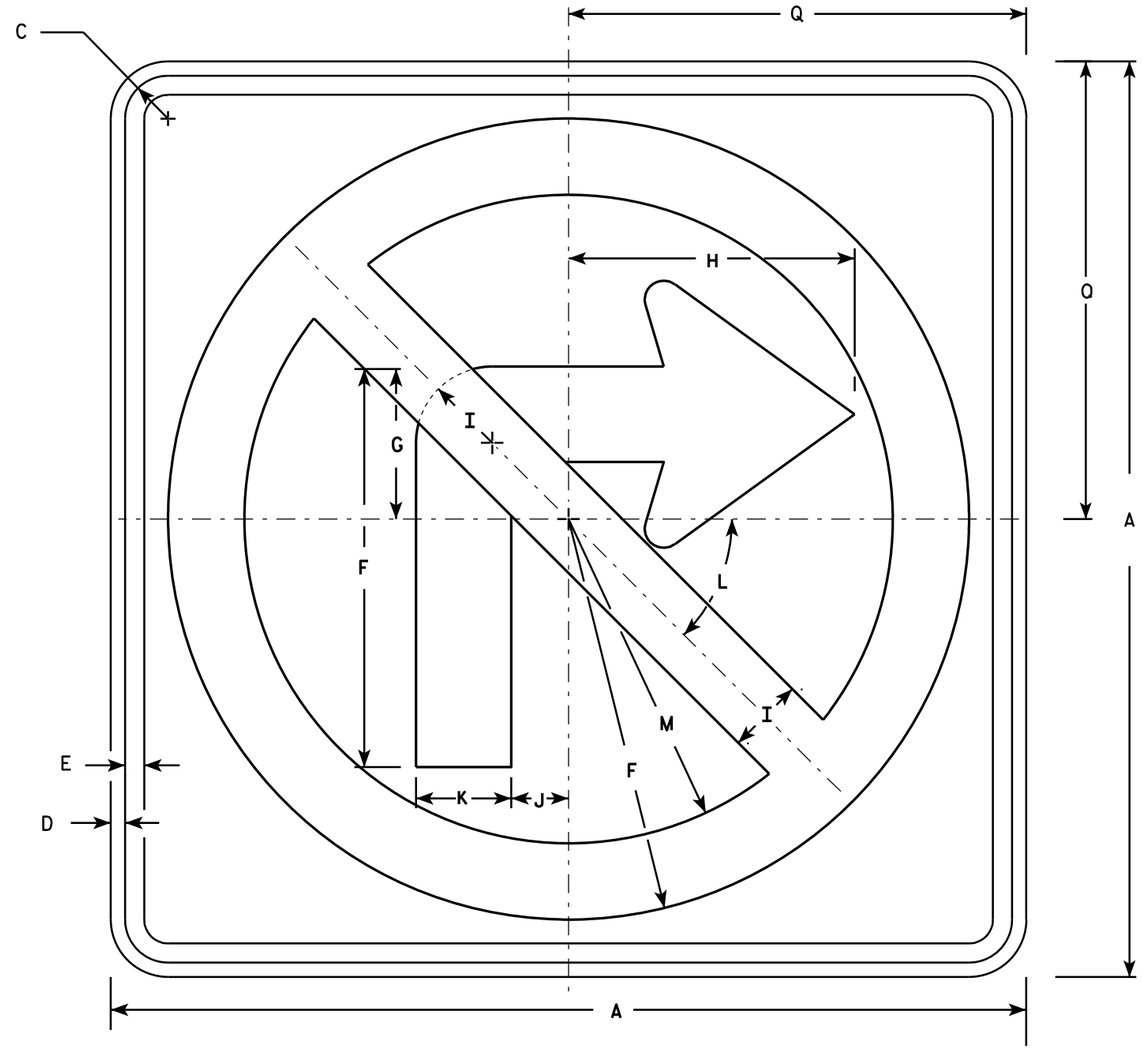
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

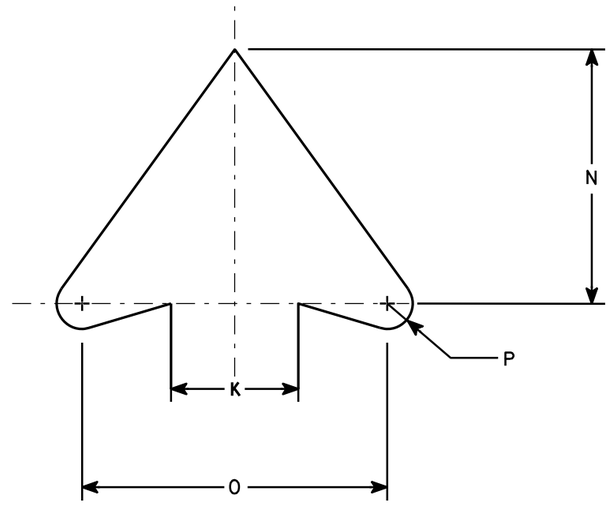
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 575	E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

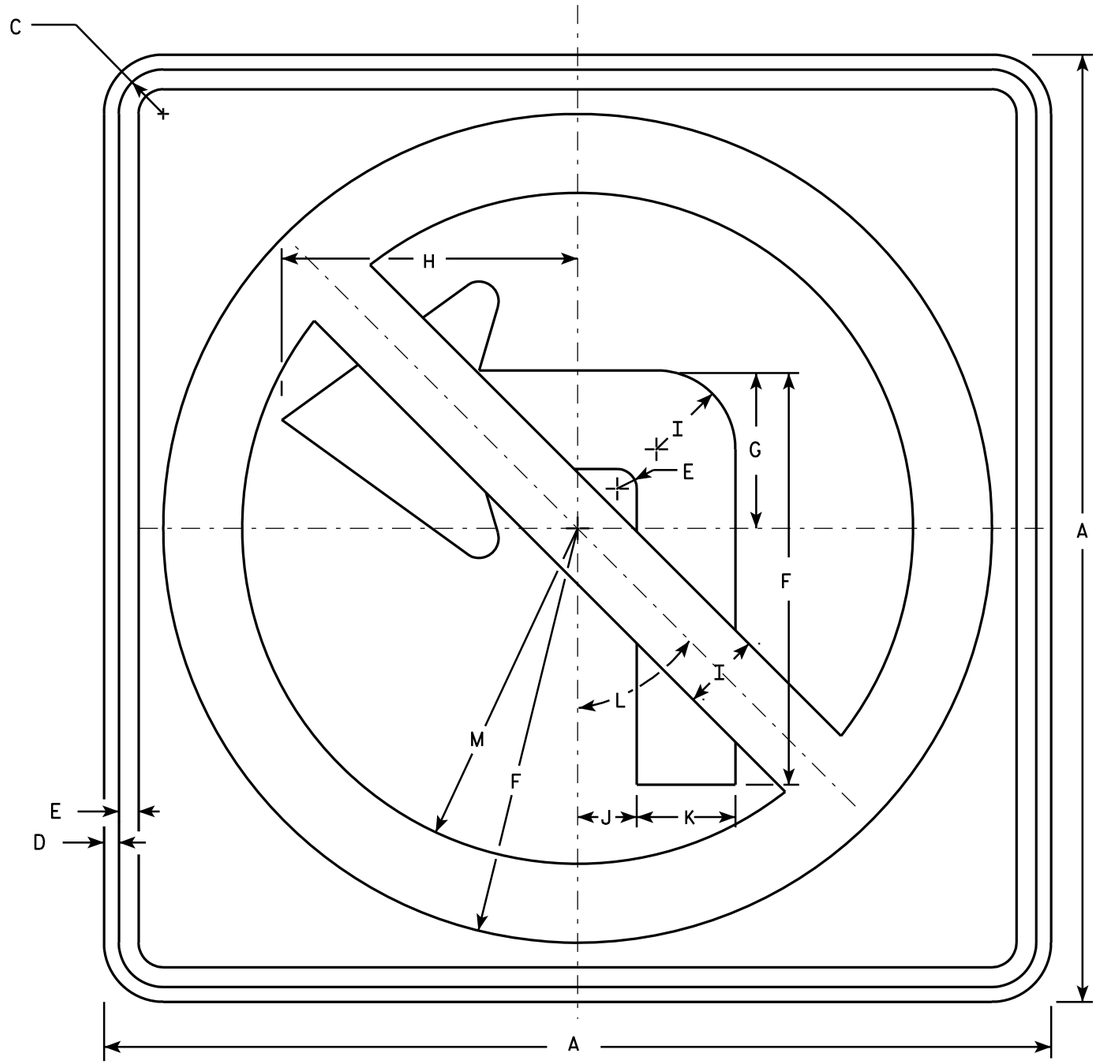
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

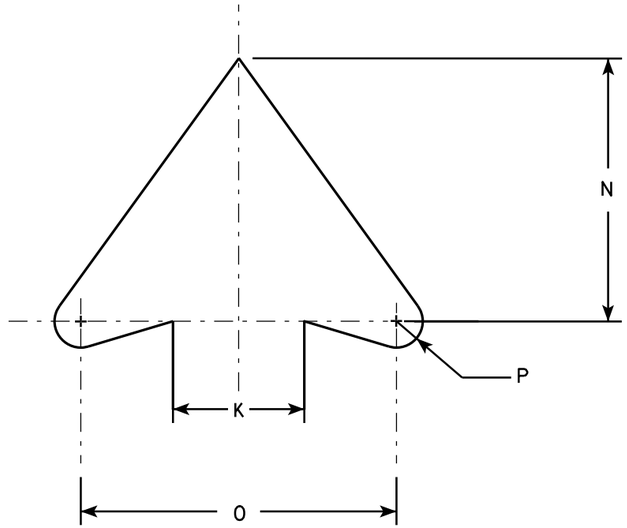
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 576	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

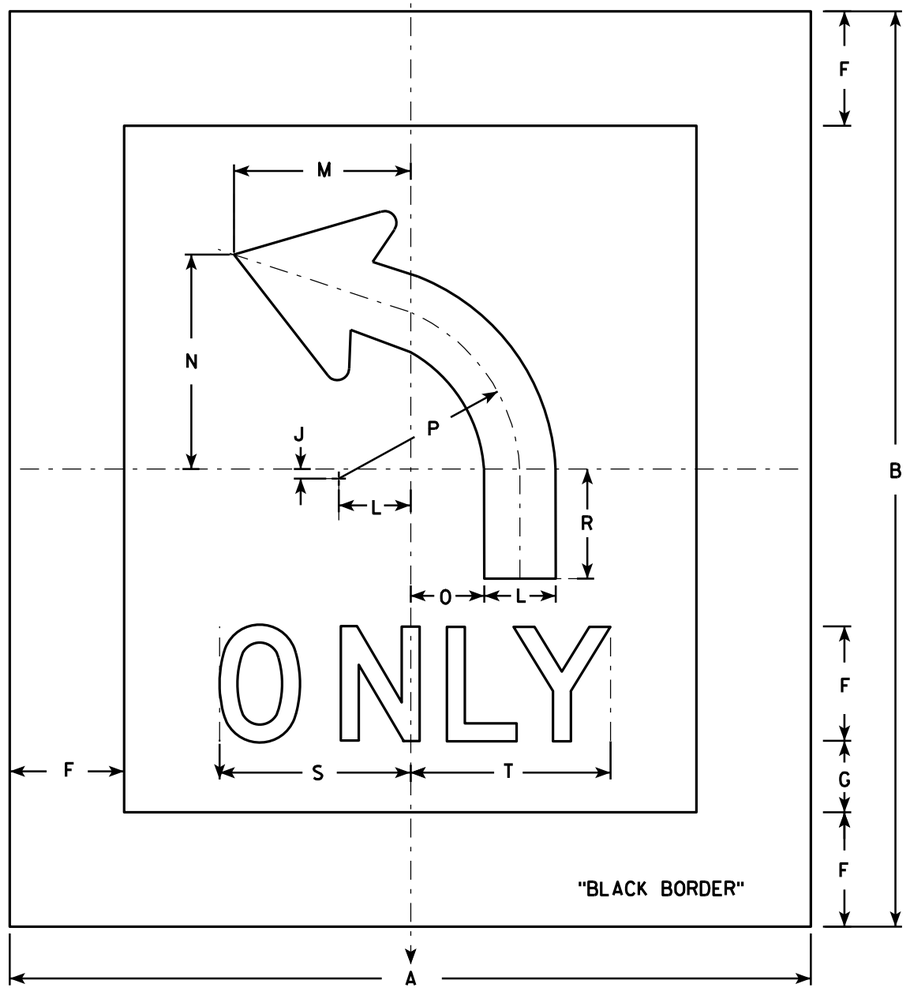
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

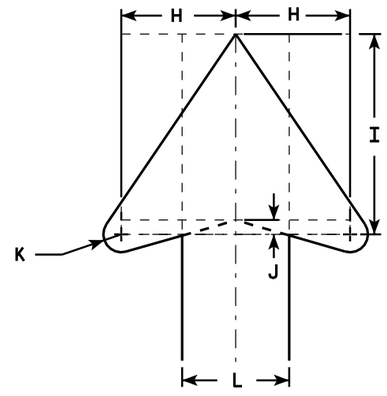
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 577	E



R3-5L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

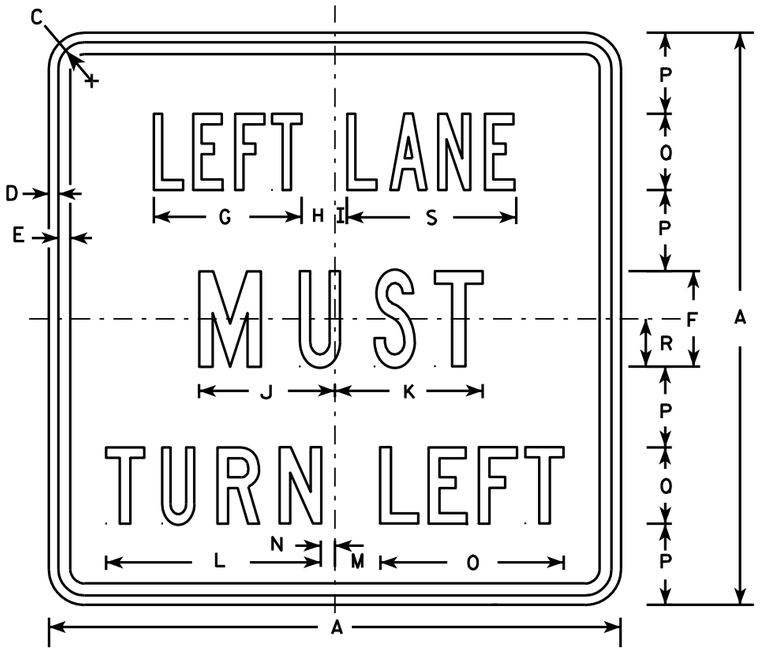
STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

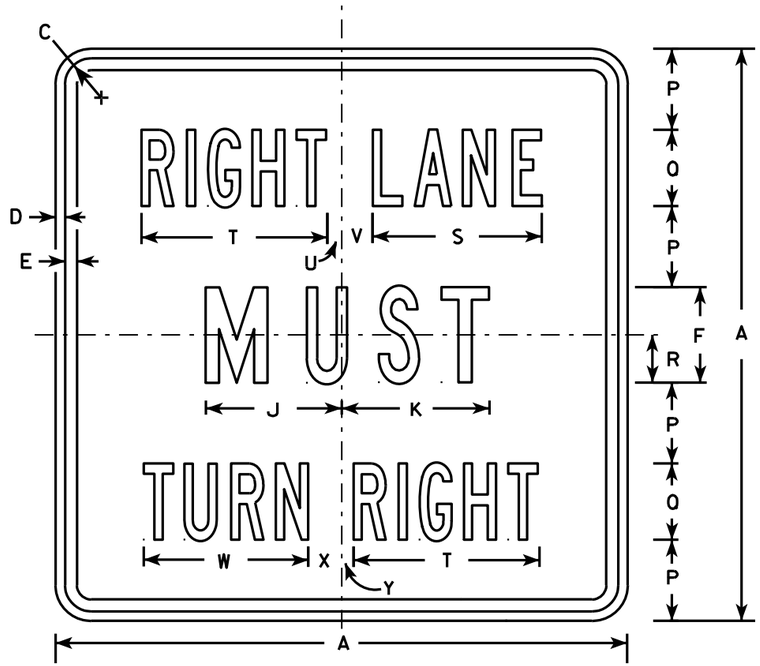
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 578 | E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

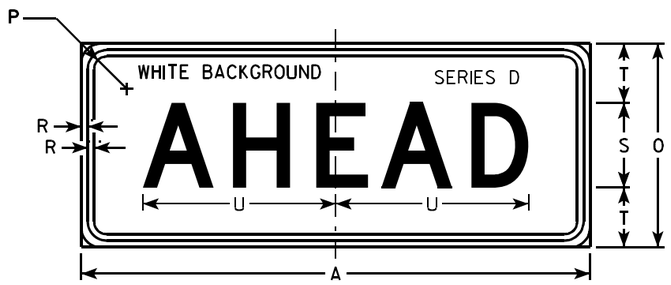
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 579 | E



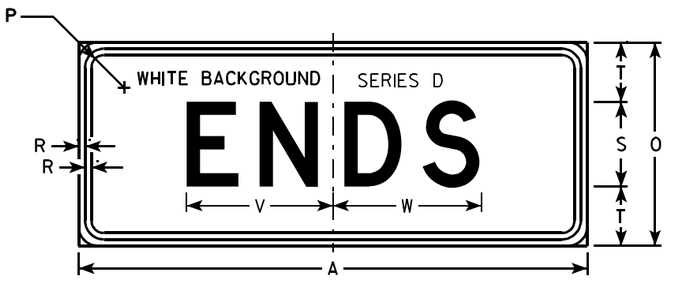
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-17ap



R3-17bp

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

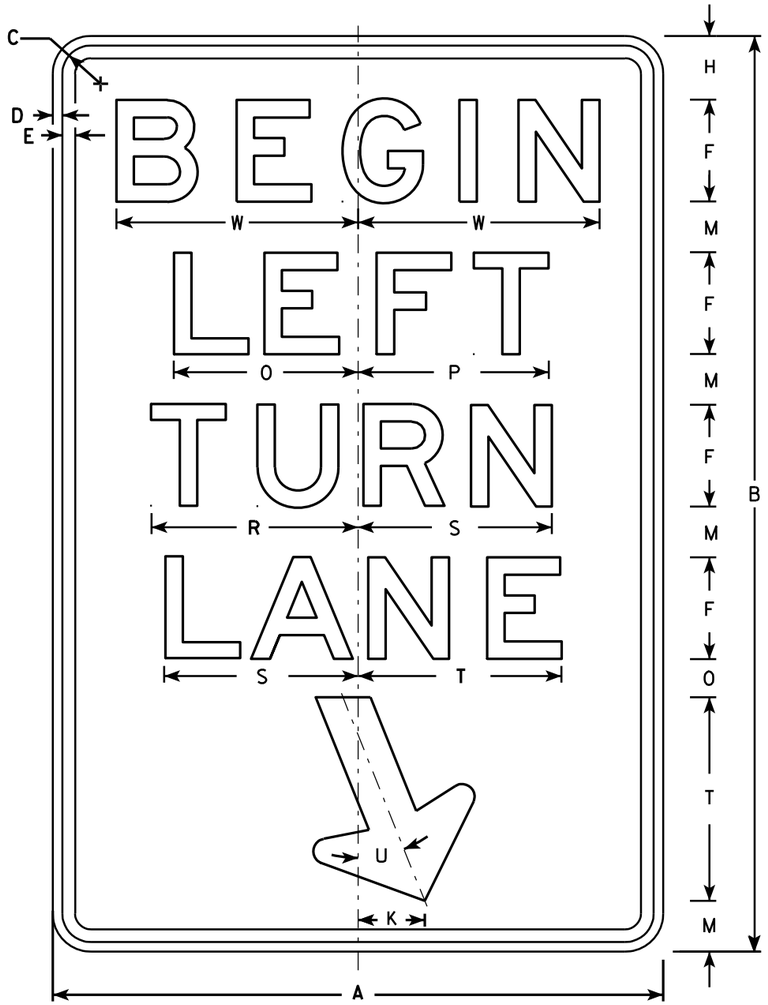
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

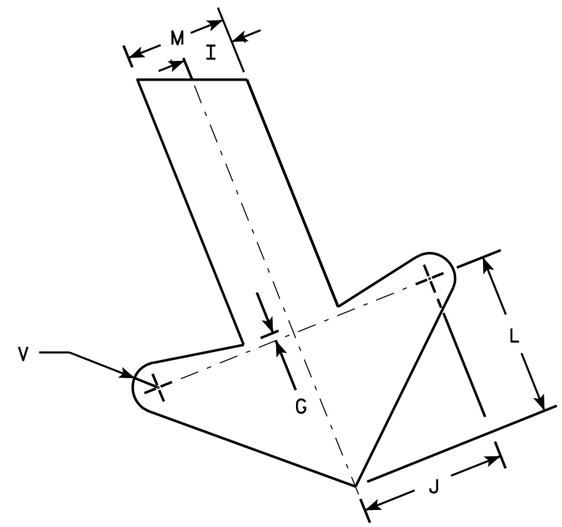
SHEET NO: 580 E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

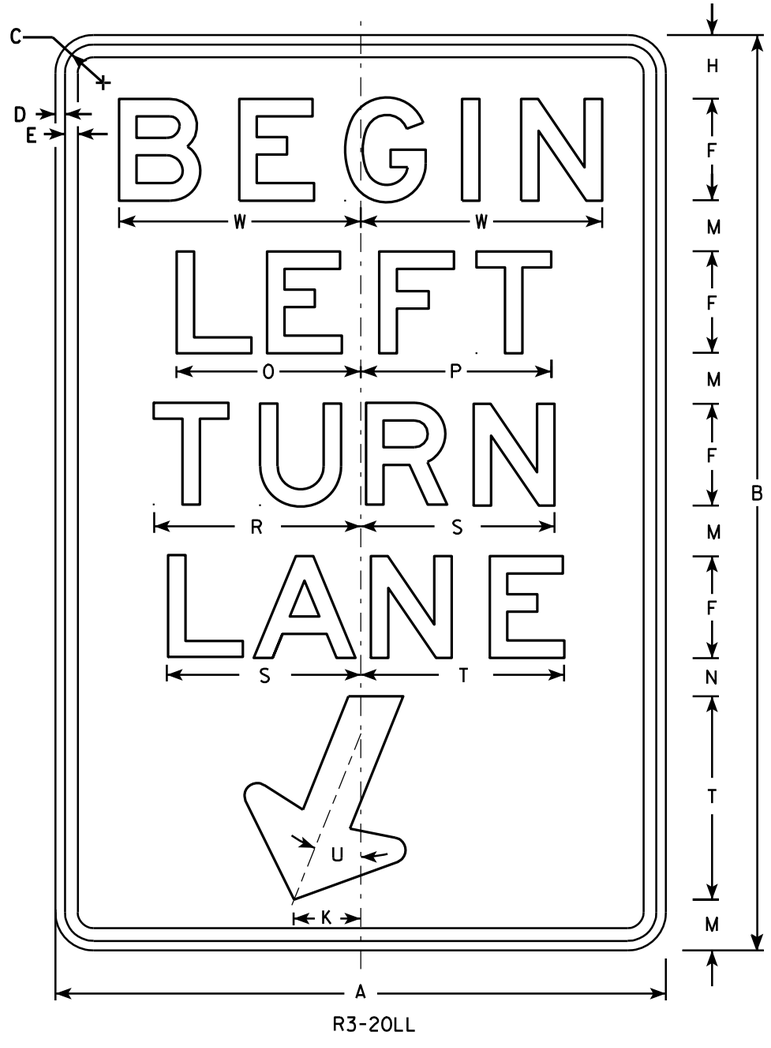
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

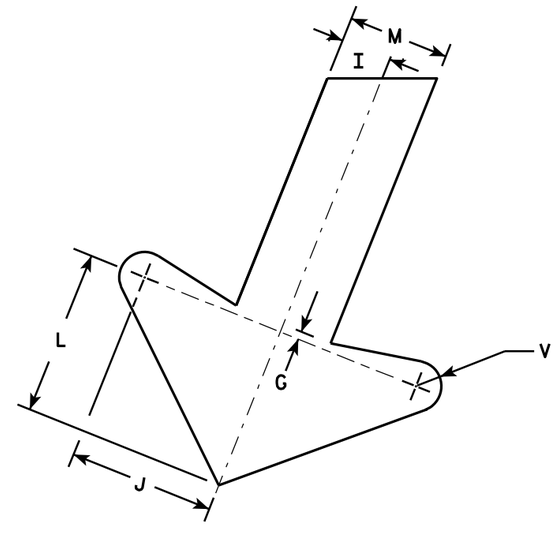
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 581 | E



R3-20LL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

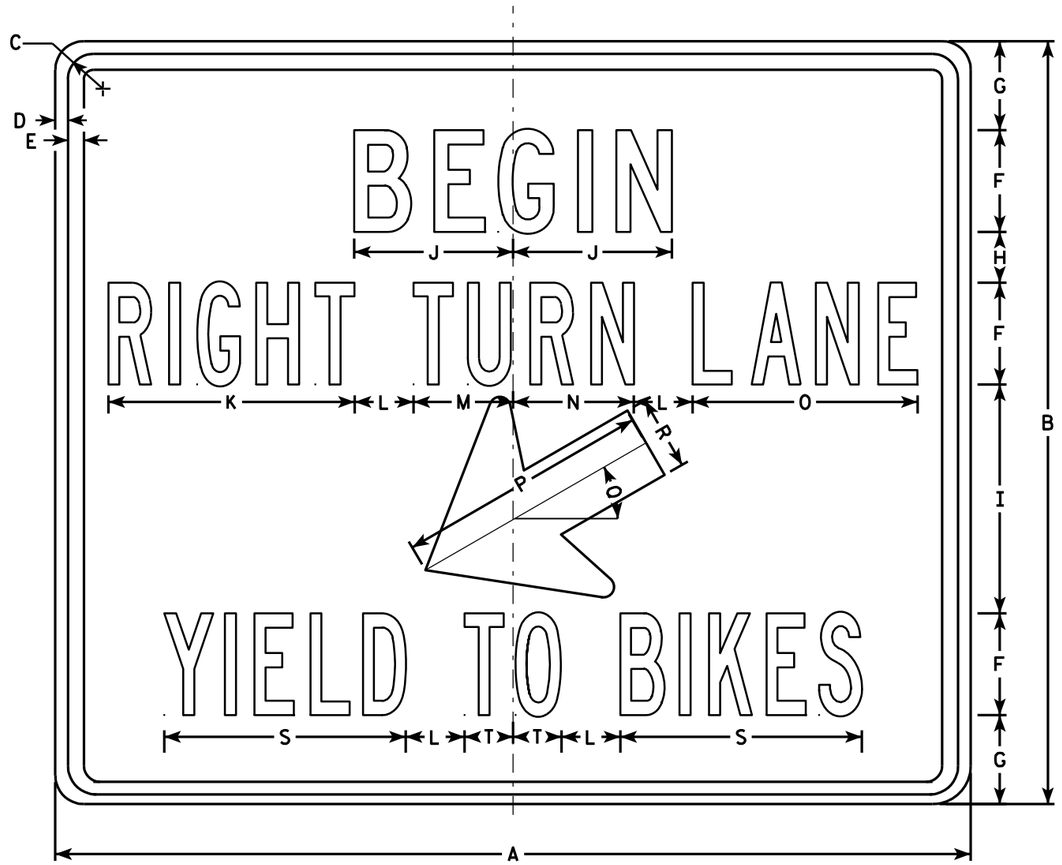
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20LL.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 582	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320LL.DGN PLOT DATE : 15-OCT-2010 14:38 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42



R4-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C
   Lines 2 & 3 are Series B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
2M	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
3																											
4																											
5																											

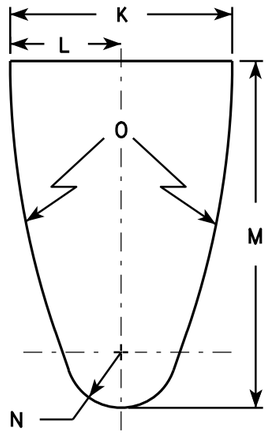
STANDARD SIGN
R4-4

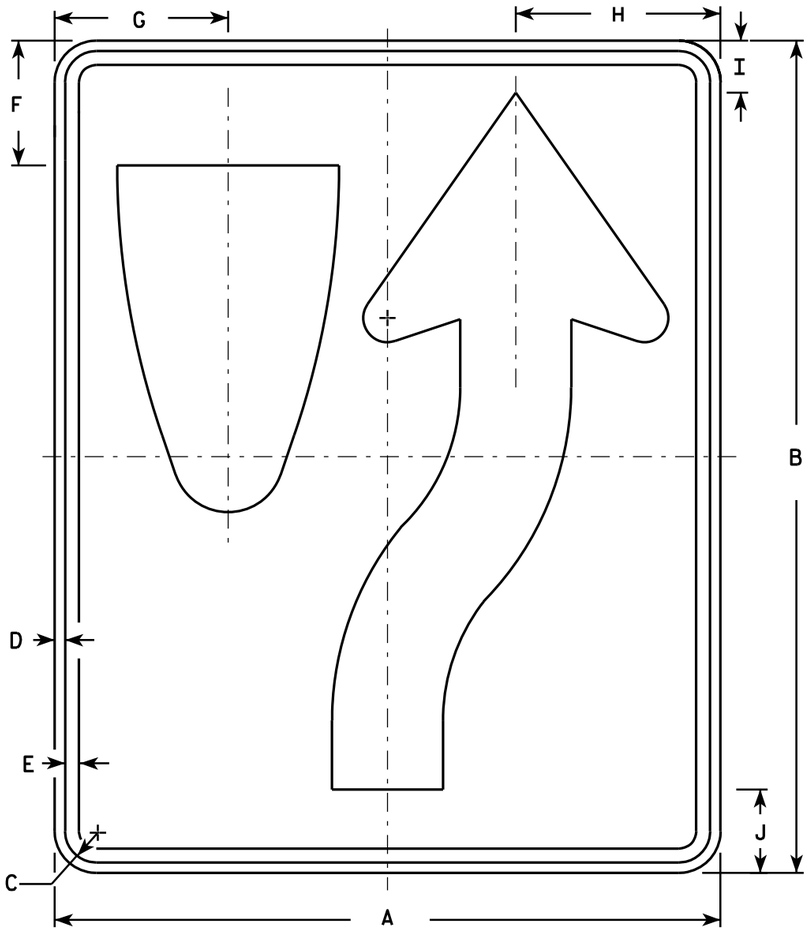
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 583 | E

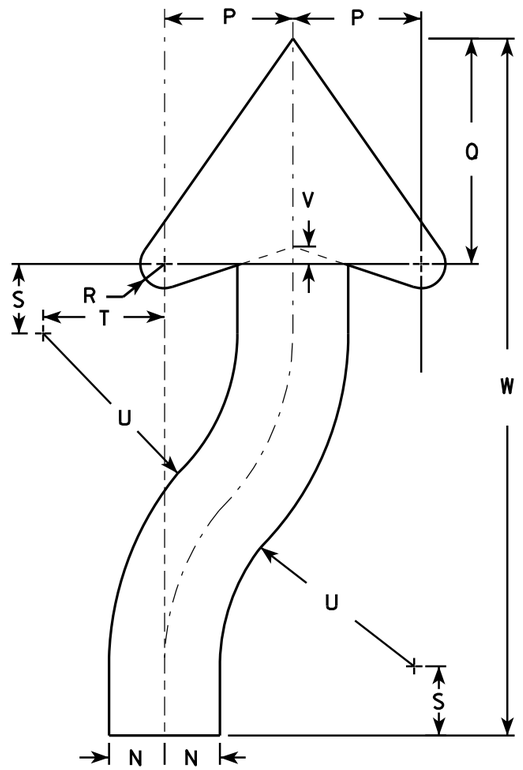




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

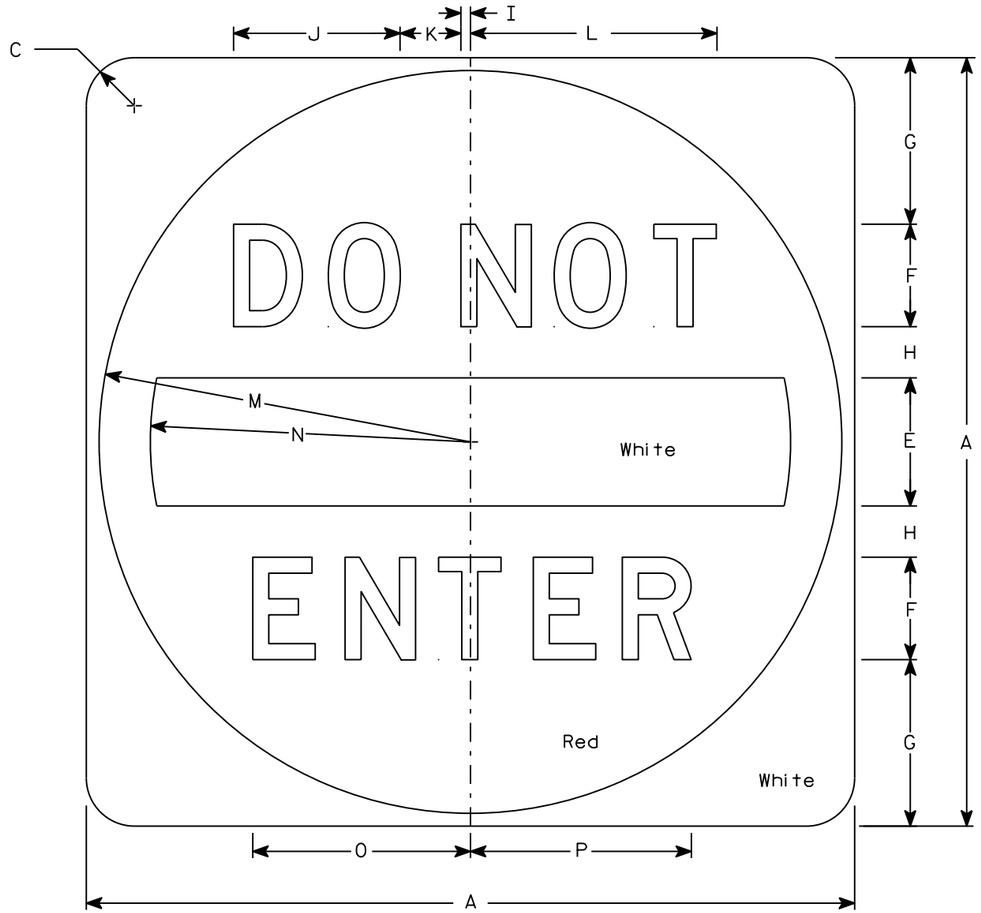
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 584	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

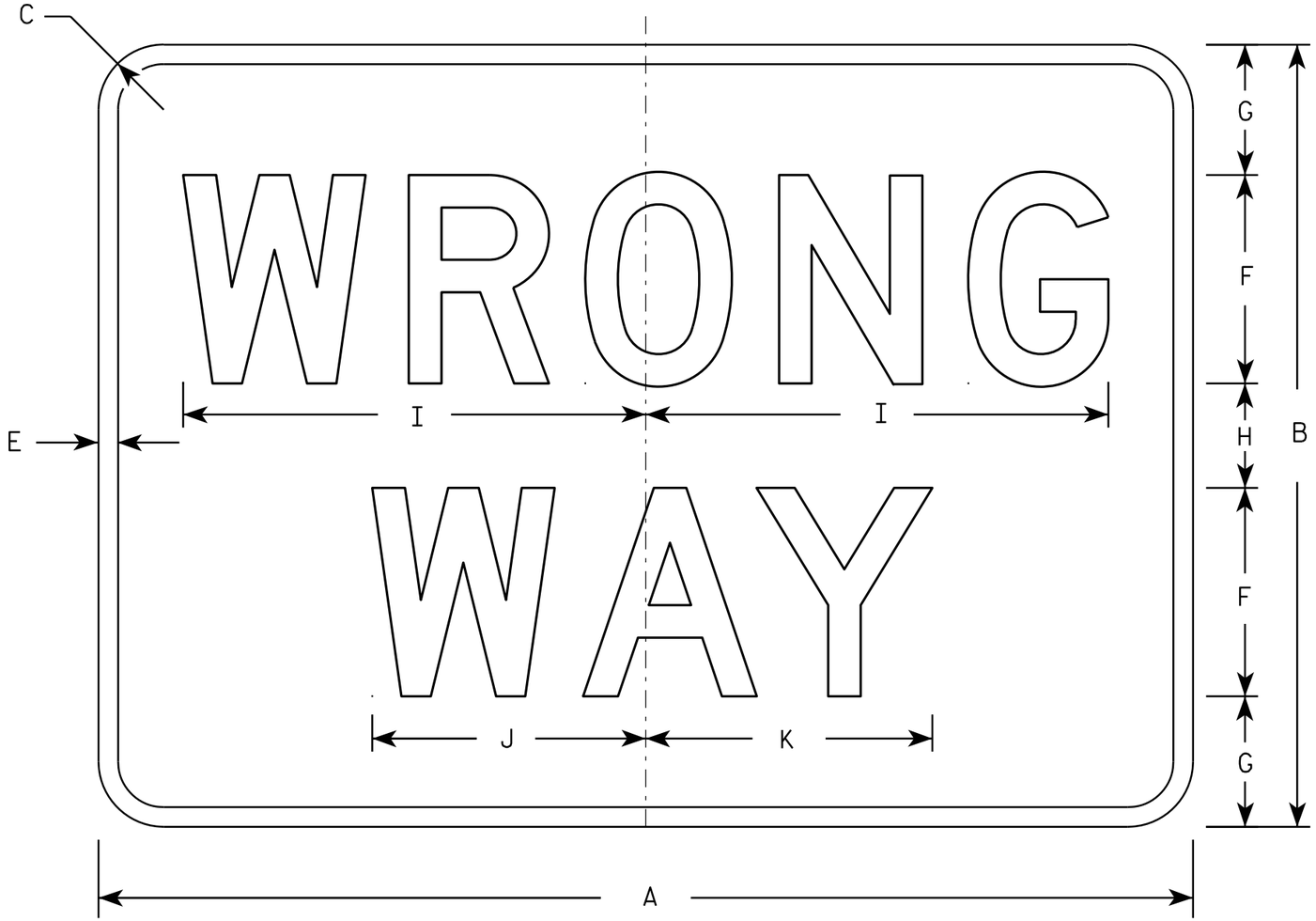
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 585 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

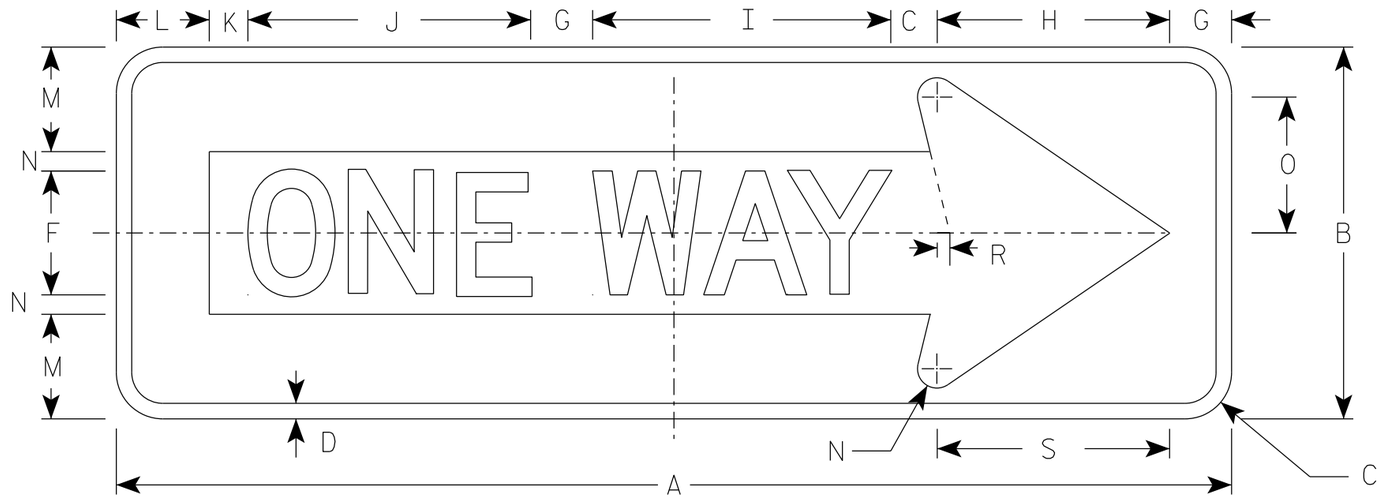
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

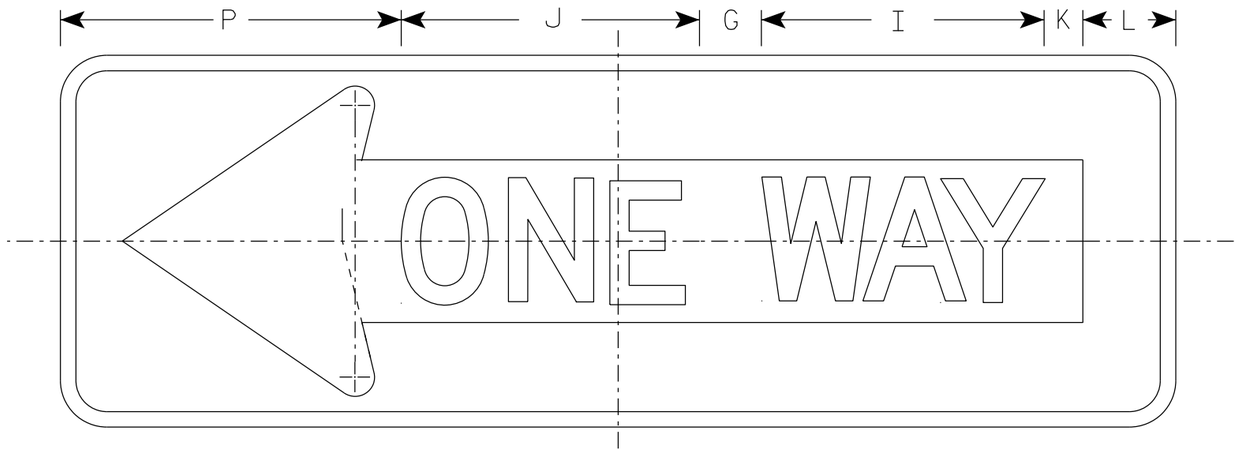
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 586	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

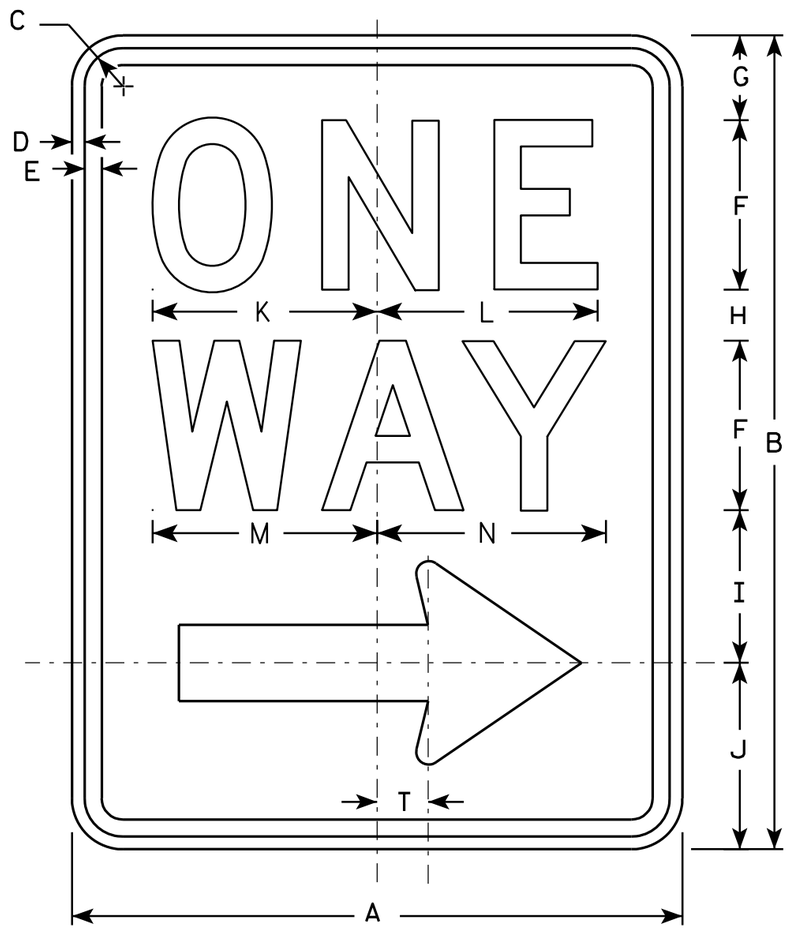
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

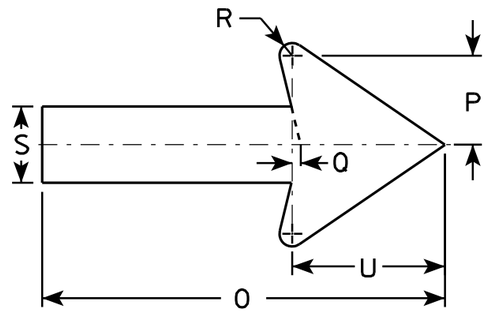
SHEET NO: 587 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

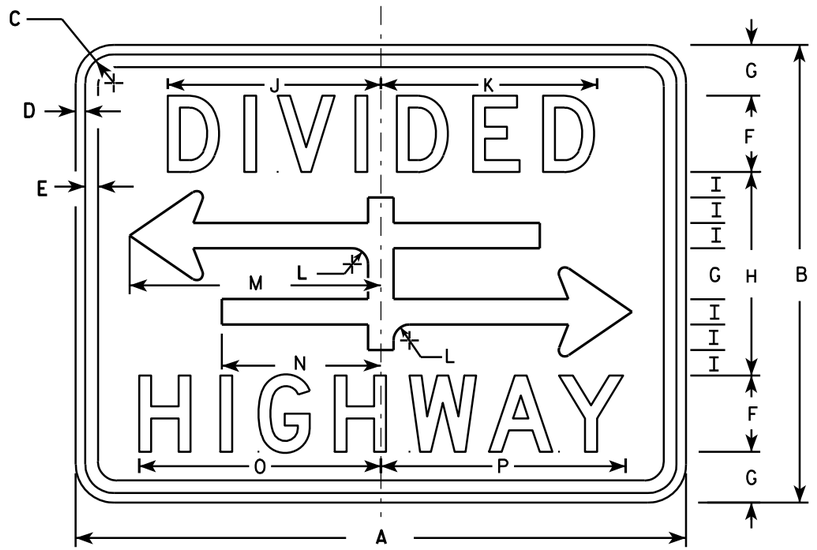
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

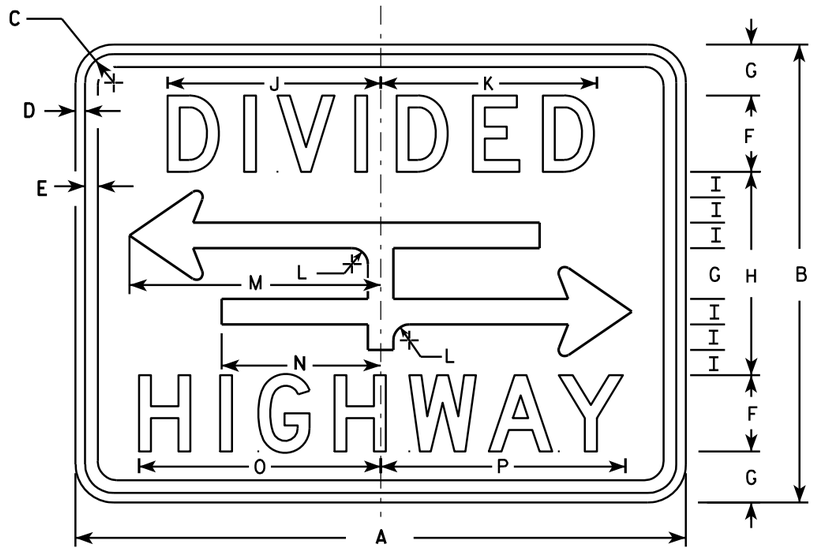
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 588	E



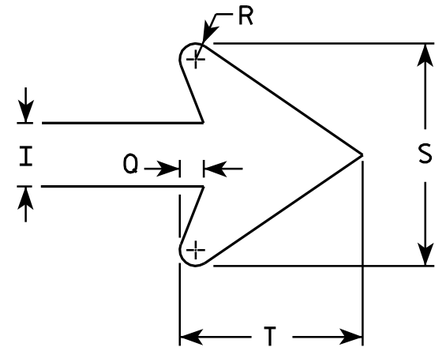
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

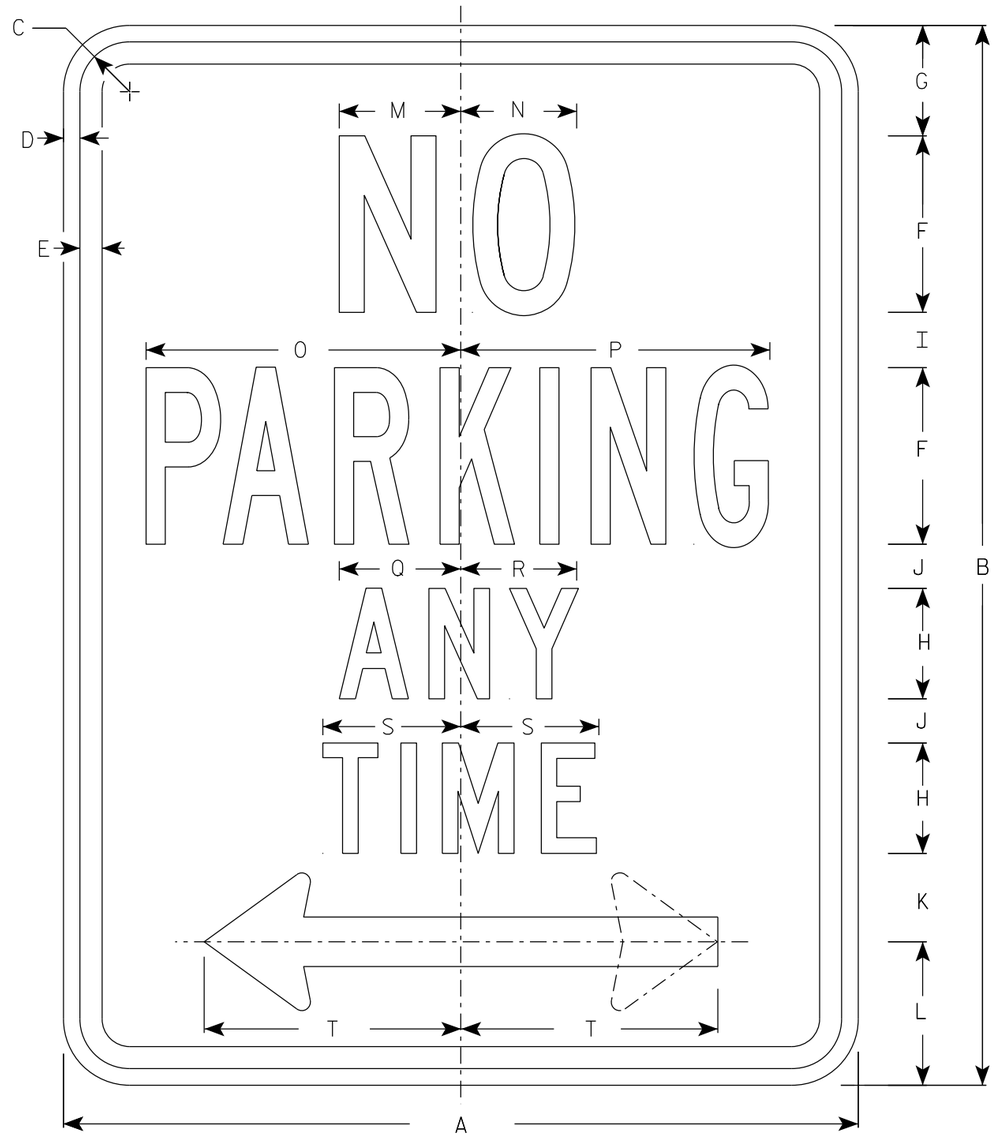
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

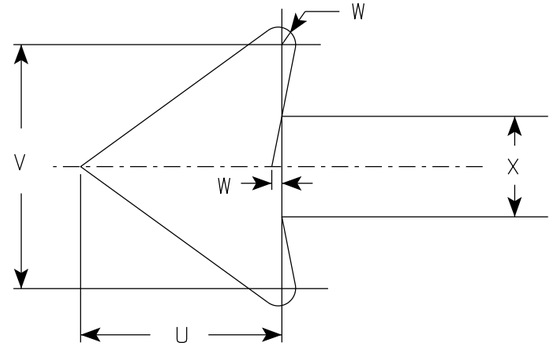
SHEET NO: 589 E



R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

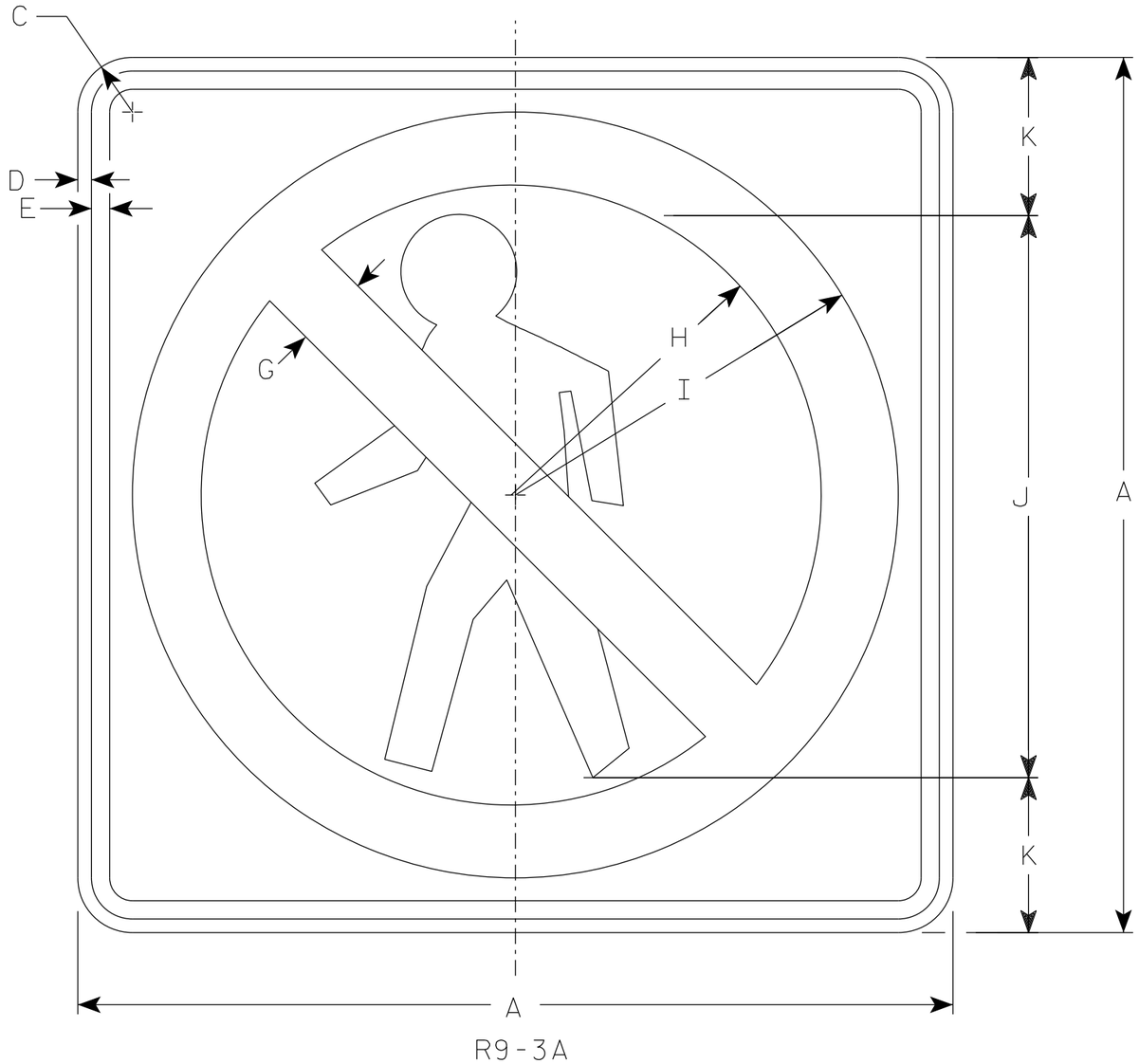
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 590 E



R9-3A

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Pedestrian are non-reflective black.
   Circle with diagonal bar is reflective red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
2S	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	15	4																4.00
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	15	4																4.00
3																											
4																											
5																											

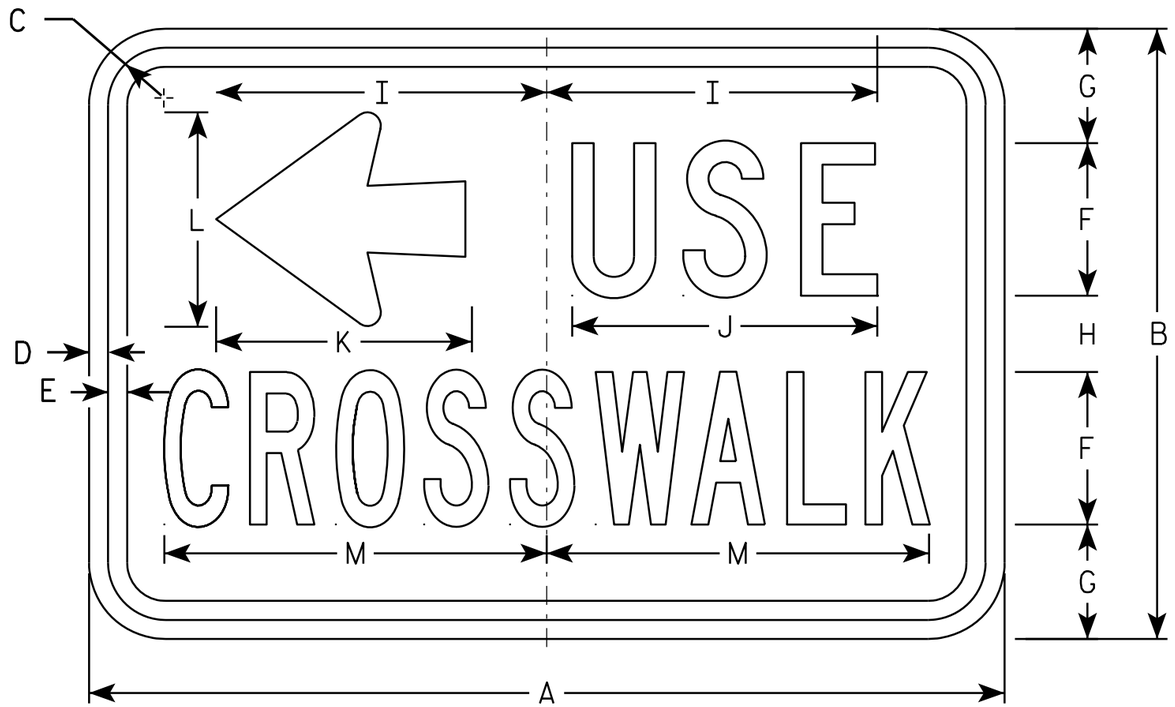
STANDARD SIGN
R9-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/22/21 PLATE NO. R9-3A.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



R9-3BL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C Line 1, Series B Line 2
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	
2	450 mm X 300 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	18	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	6 1/2	6	5	4 1/4	7 1/2														1.5	0.14
3																												
4																												
5																												

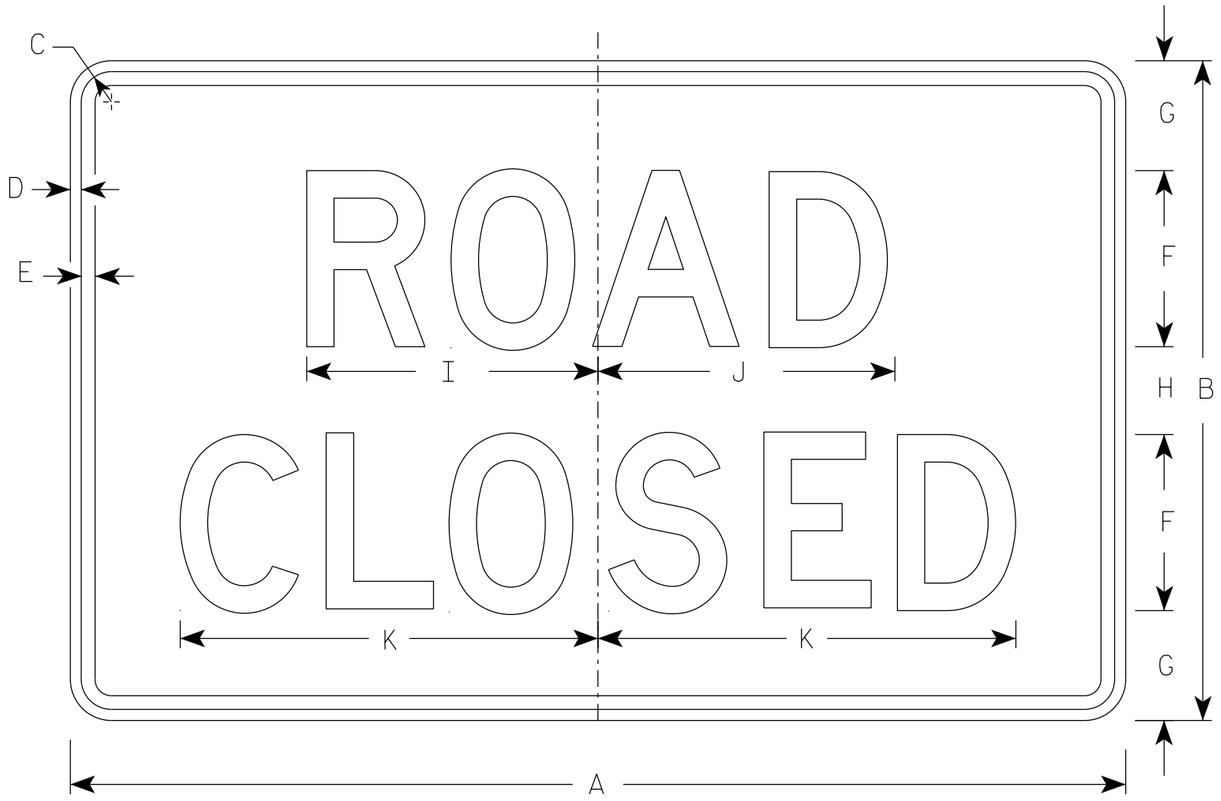
STANDARD SIGN
R9-3BL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/05/09 PLATE NO. R9-3BL.1

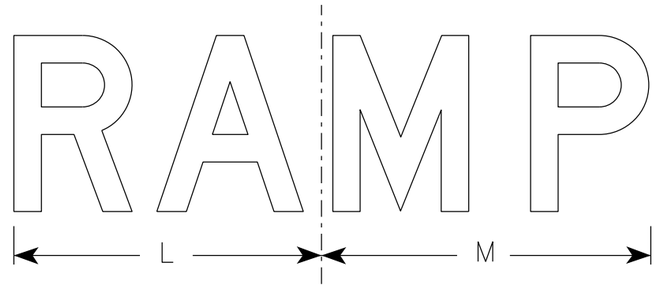
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 592 | E



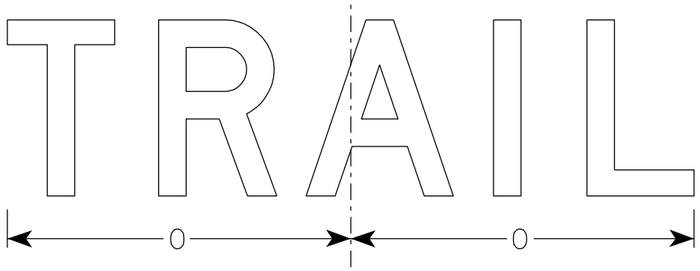
R11-2

NOTES

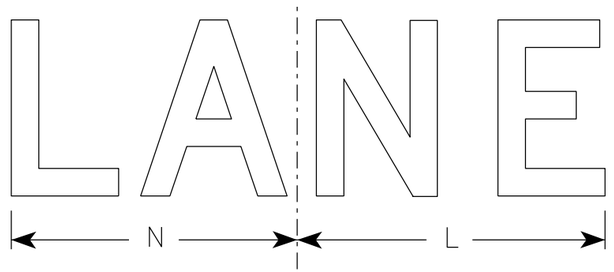
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 593	E



R12-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 2 & 3 are series E
   Lines 4, 5, & 6 are series D.
6. Substitute appropriate numeral and optically adjust spacing to achieve proper balance.
7. Substitute name of county or town on County Trunk and Town Highways respectively. Community name on City or Village Streets including Connecting Highways is optional.

* Varies (see note 6)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
2S	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
2M	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
3	36	48	1 3/8	1/2	5/8	6	10	8	4 1/2	2 1/2	2 1/4	1 1/2	3/4	1/2	3	13 1/2	14 1/4	9	9 3/4	10 5/8	10 1/4	3 1/4	3 5/8	7 3/4			12.0
4	48	60	2 1/4	3/4	1	6	12	8	6	2 1/2	4 1/2	2 3/4	1 1/2	1	3 3/4	18	19	12	13	14 1/4	13 3/4	6 1/2	7 1/4	15 1/2			20.0
5																											

STANDARD SIGN
R12-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

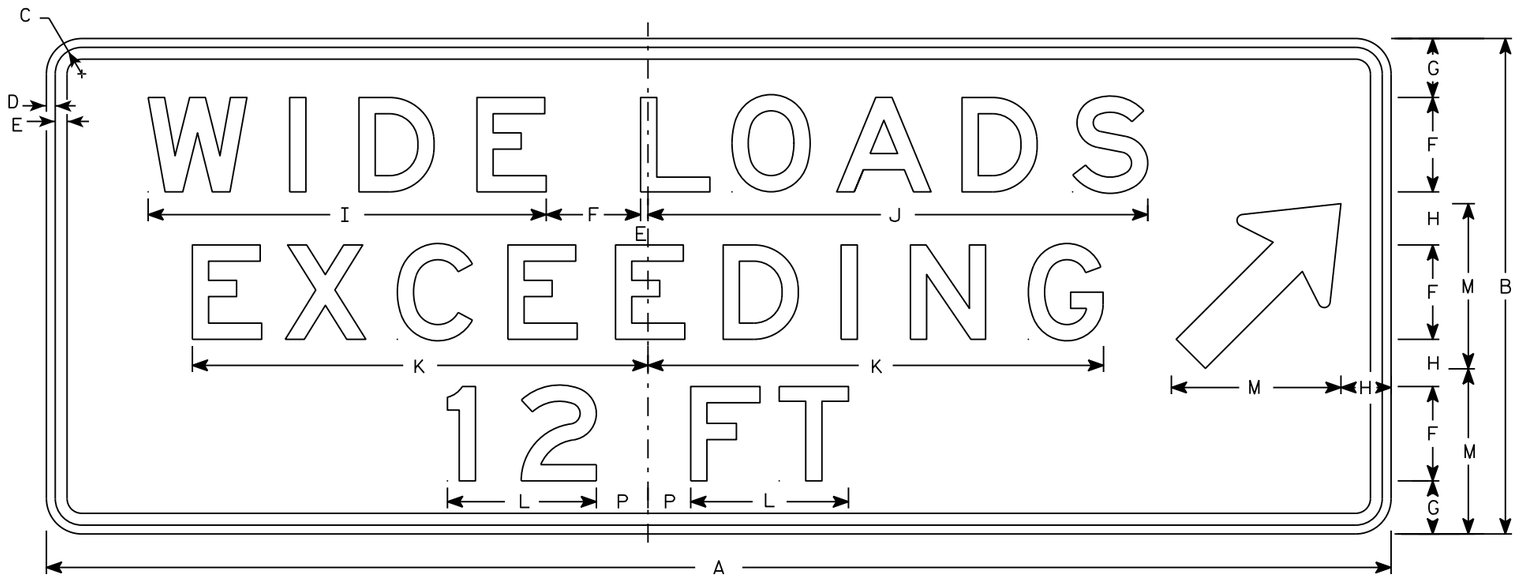
DATE 4/1/11 PLATE NO. R12-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 594 | E

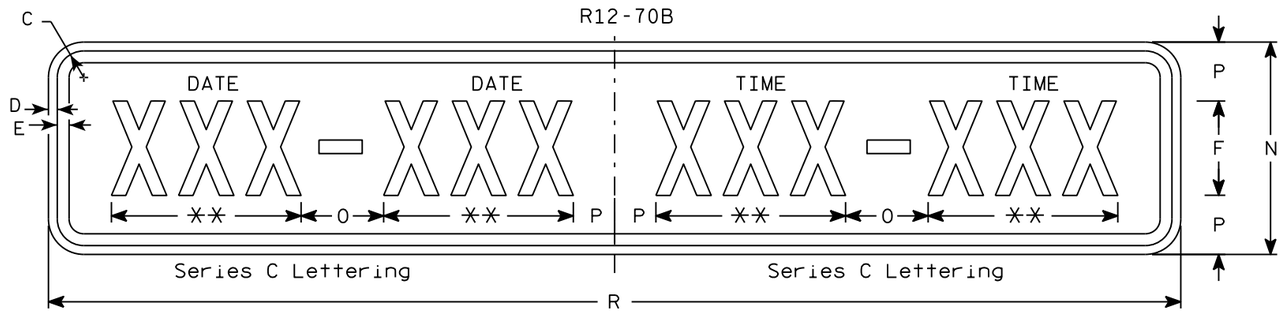
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E except as noted
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

** Substitute appropriate message, optically center message



R12-70B



R12-70C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	R12-70 Area sq. ft.	R12-70C Area sq. ft.
1																												
2S	90	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
2M	90	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
3																												
4	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0
5	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0

TYPICAL SIGN
R12-70B

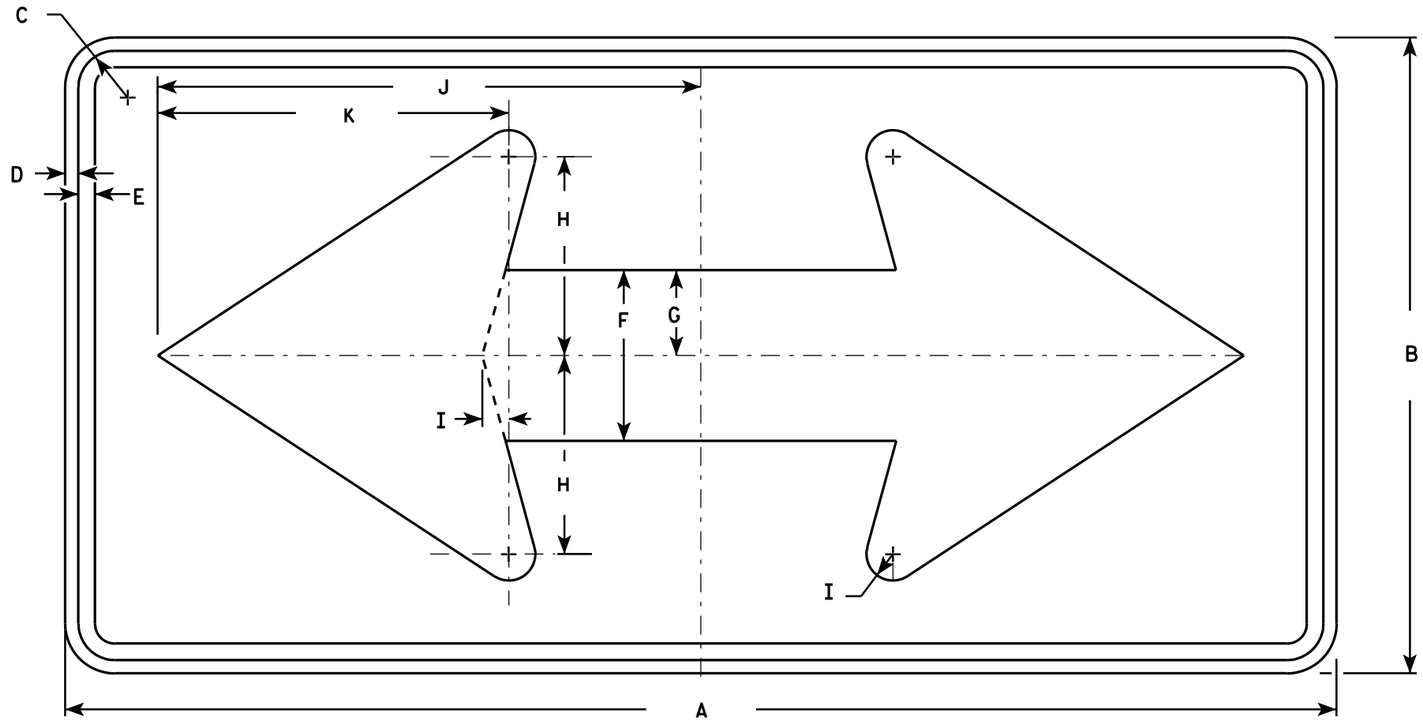
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/15 PLATE NO R12-70B.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R1270B.DGN PLOT DATE : 01-DEC-2015 18:10 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 12.842555:1.000000



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

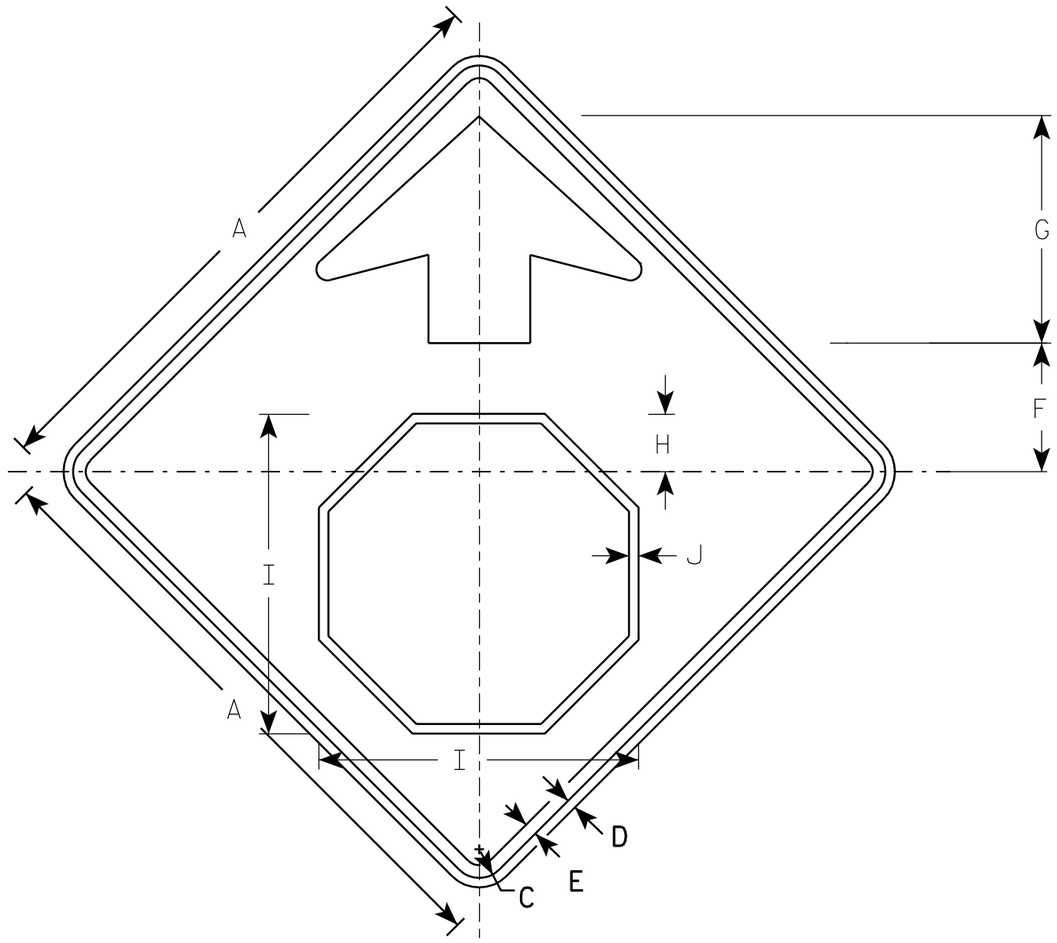
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

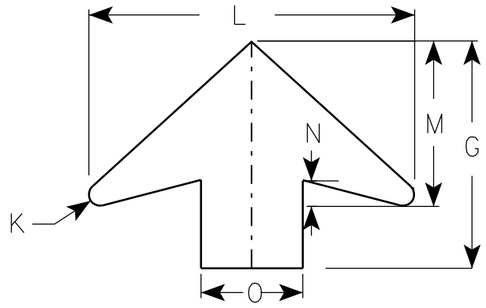
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 596 | E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

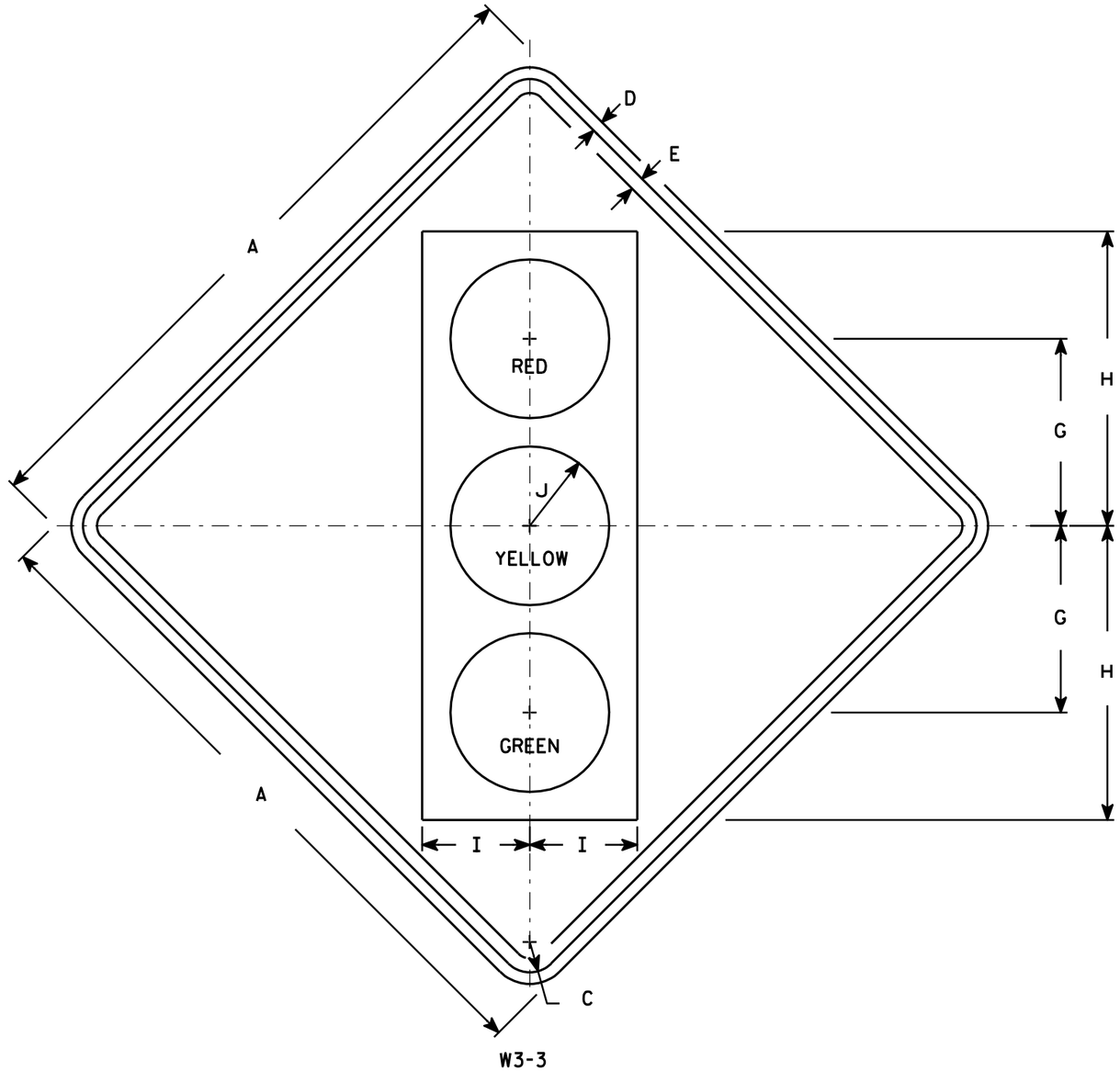
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 597 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

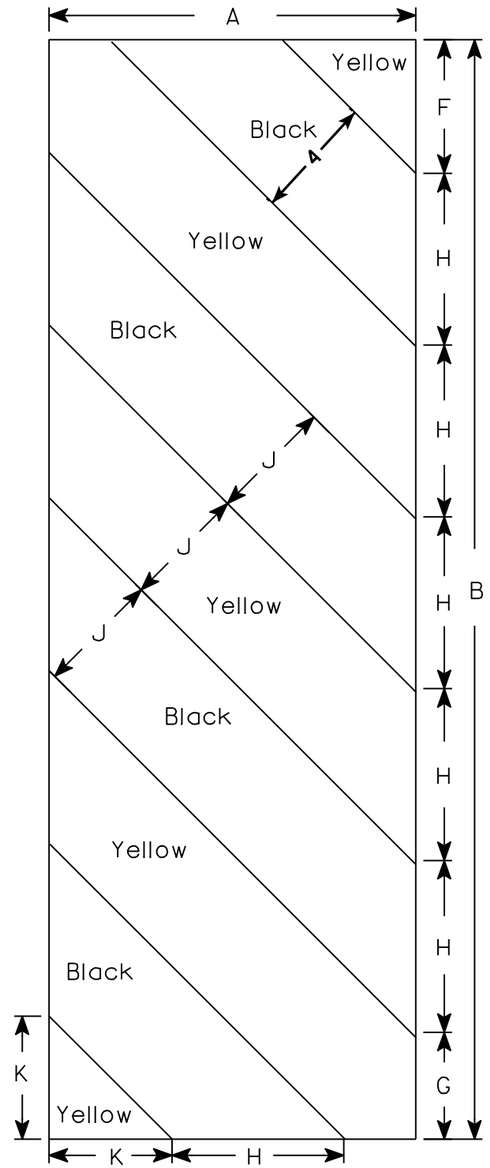
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

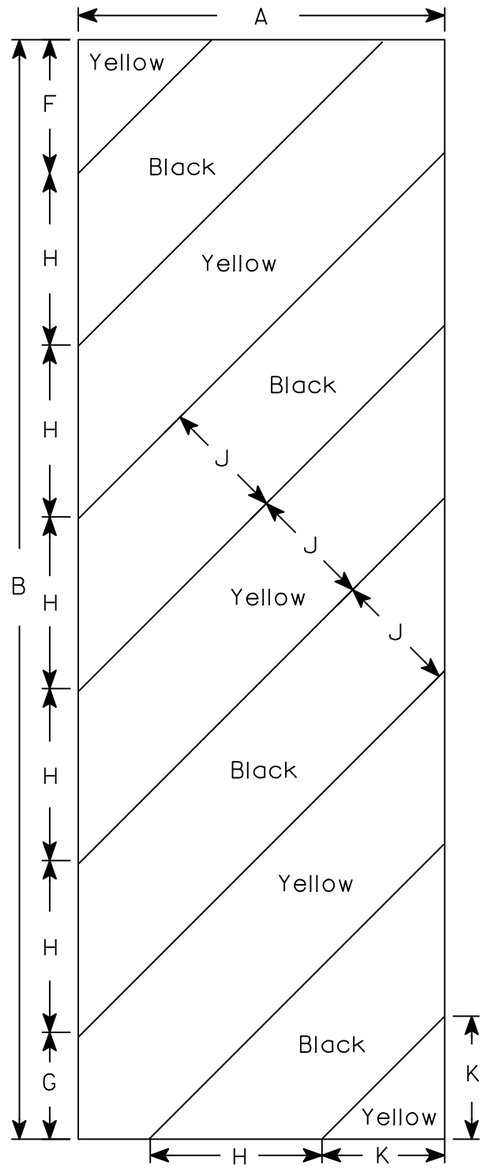
DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 598 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

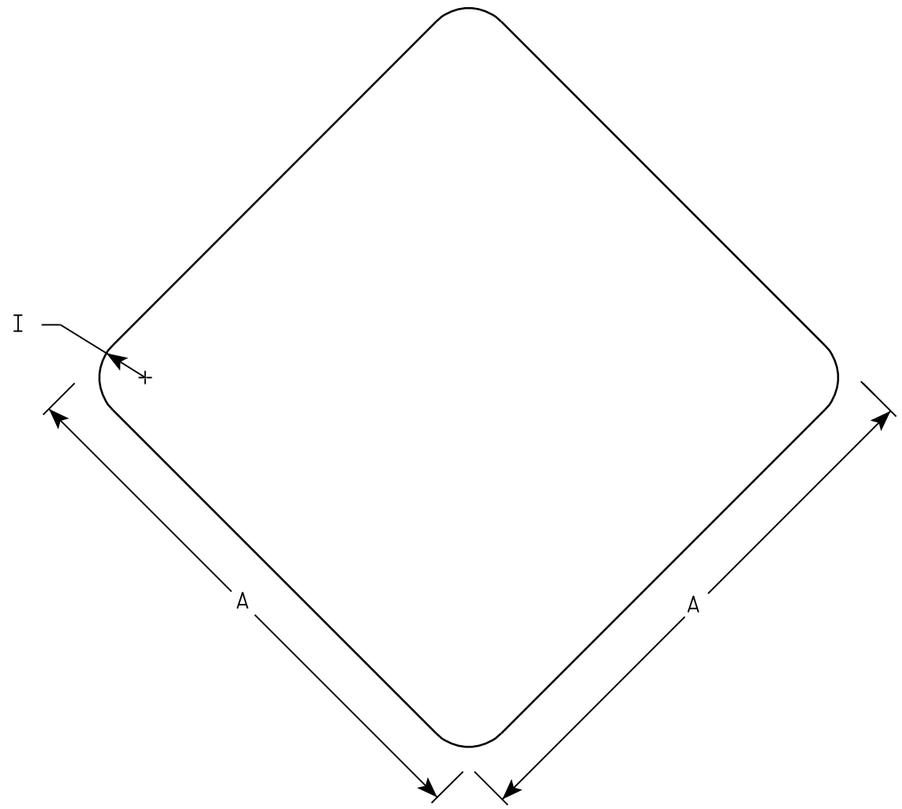
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 599 | E



W5-54

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

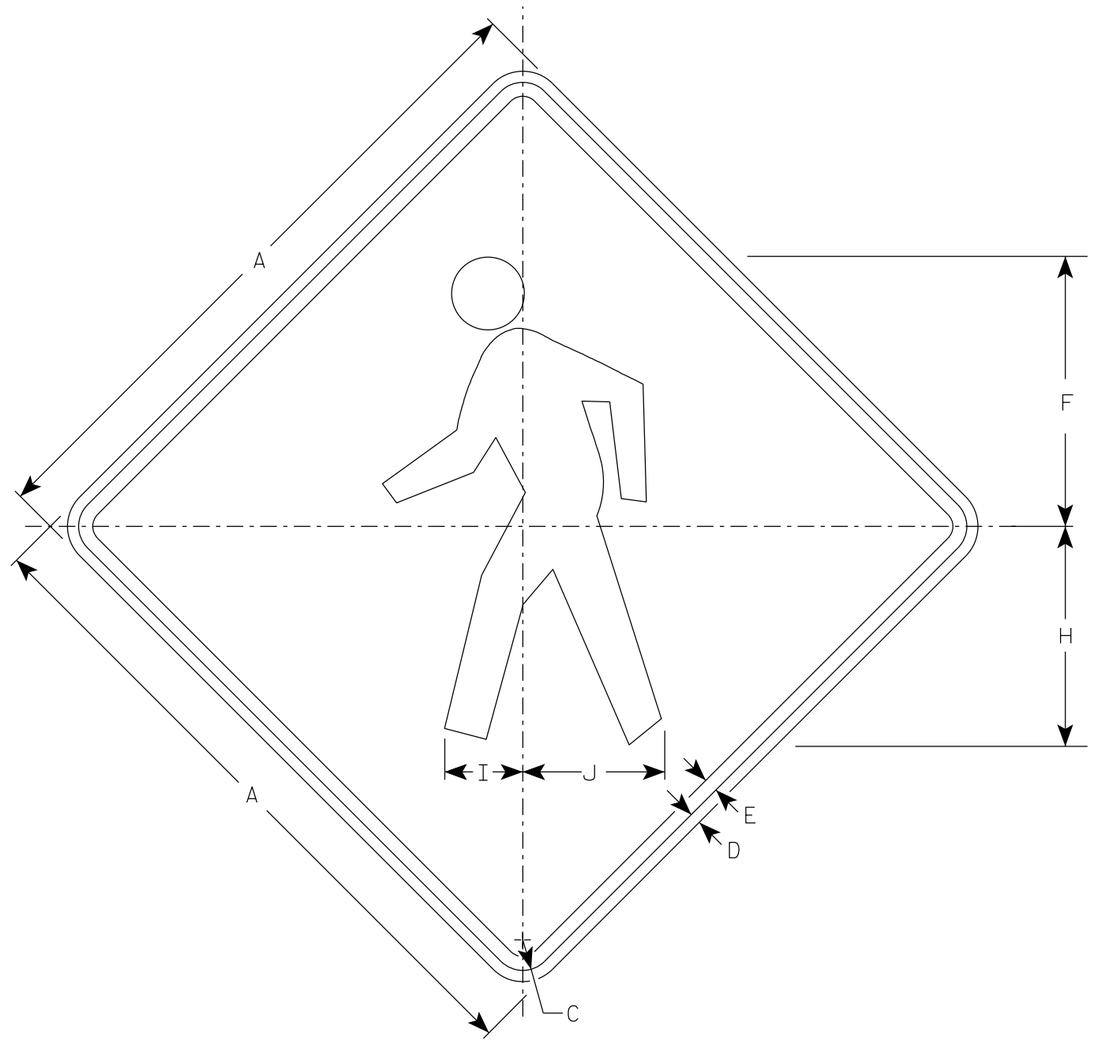
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 600	E



W11-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN

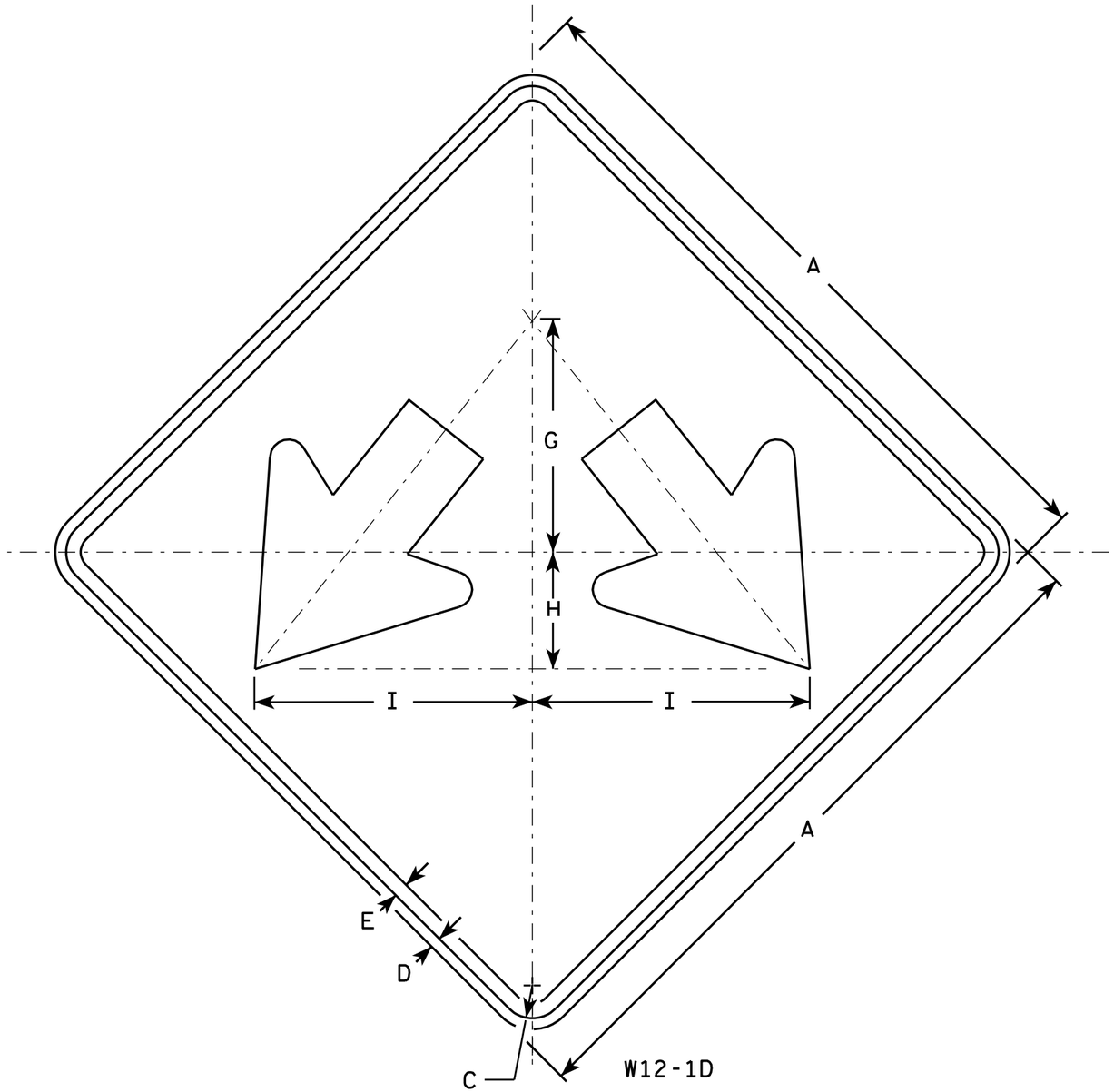
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

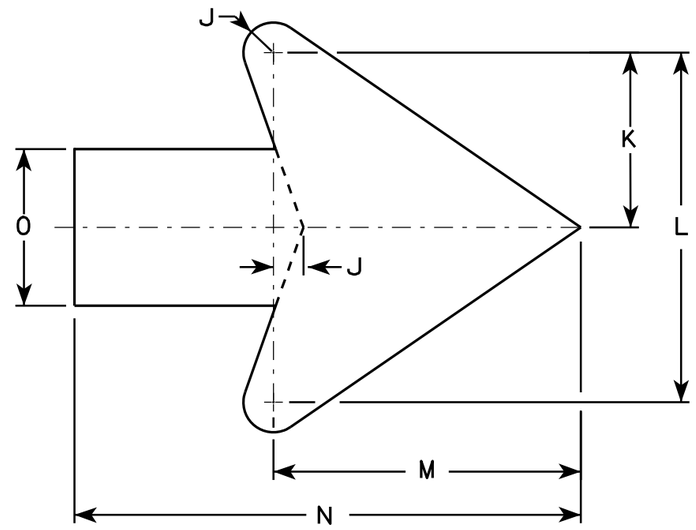
DATE 4/8/2020 PLATE NO. W11-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 601	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

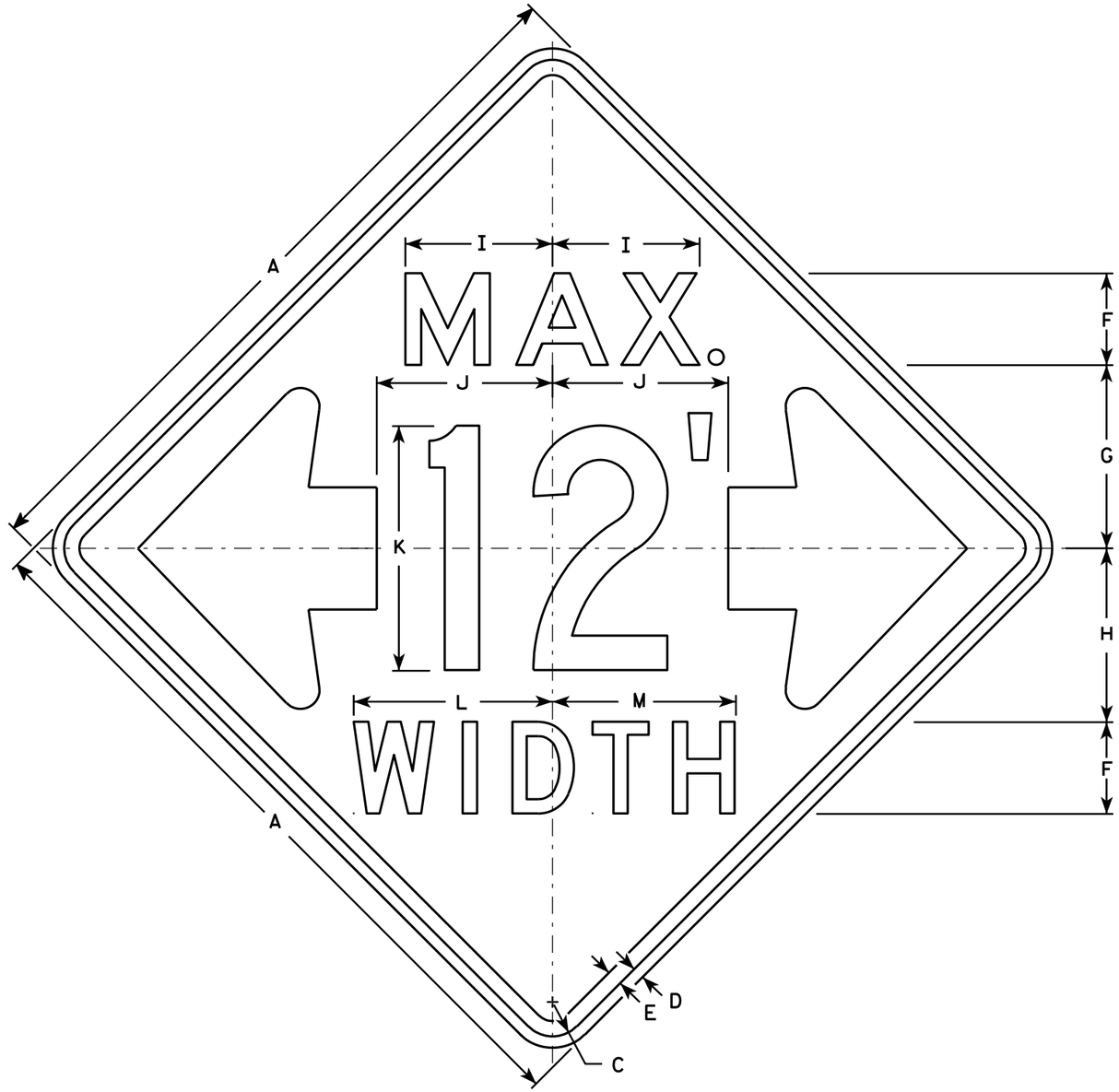
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

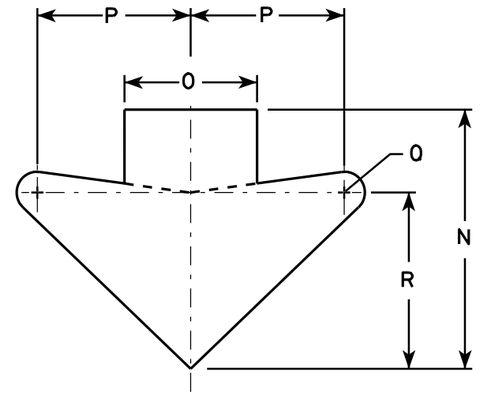
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 602	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

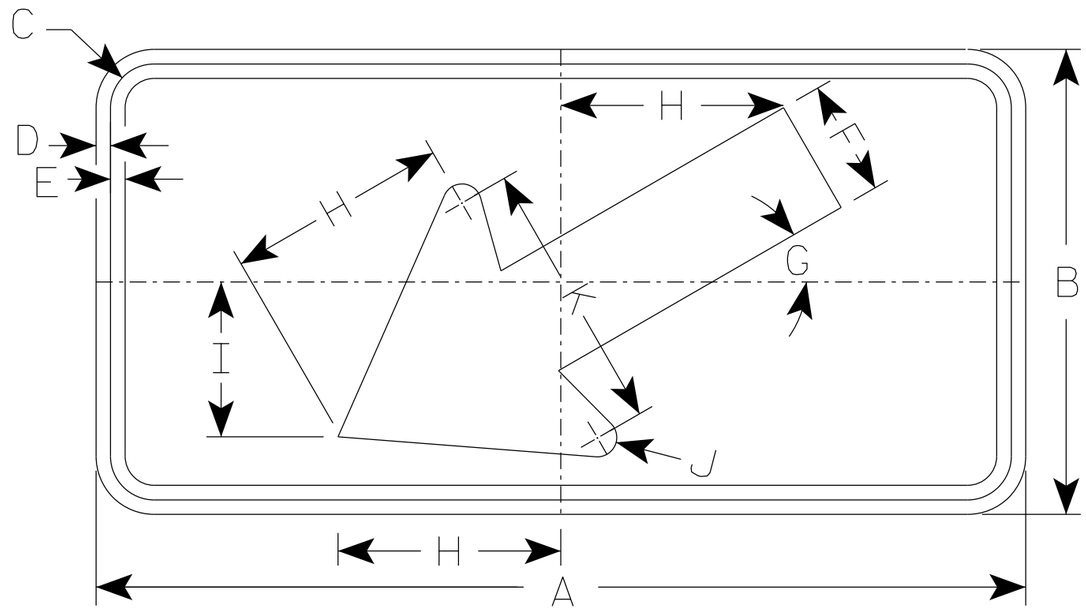
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 603 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
* 2M	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 3	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

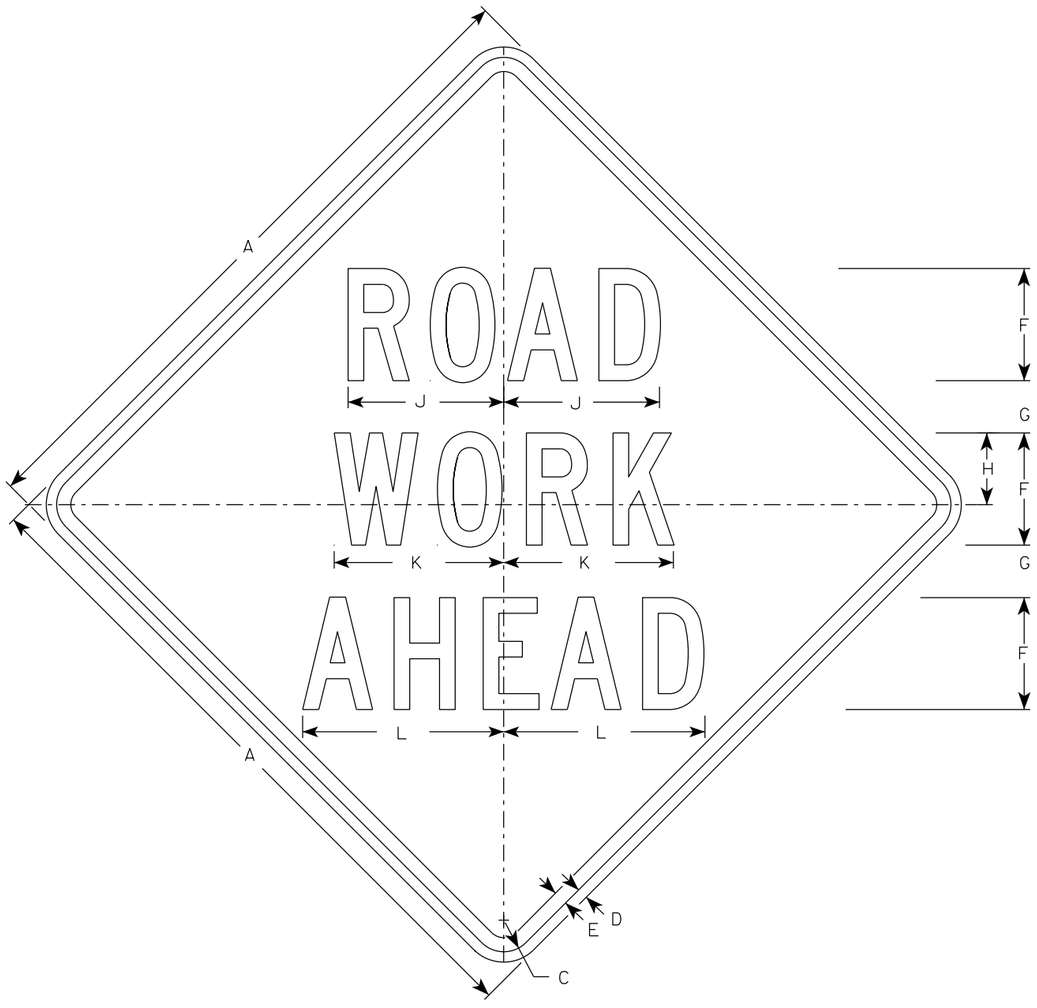
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. W16-7.8

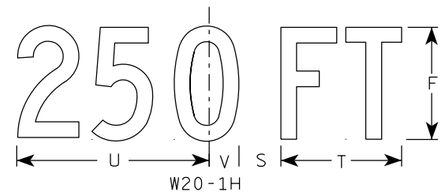
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 604	E

NOTES

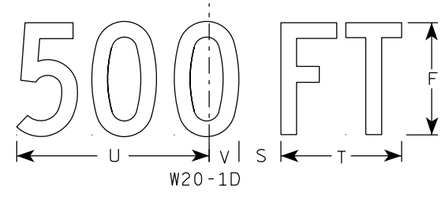
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



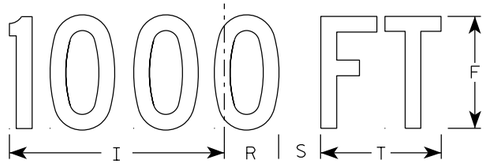
W20-1A



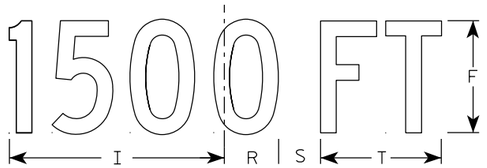
W20-1H



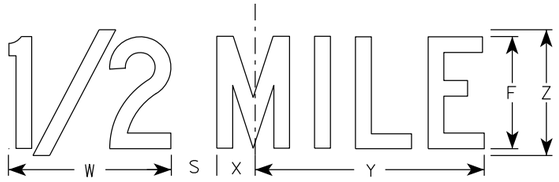
W20-1D



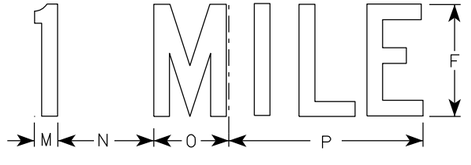
W20-1C



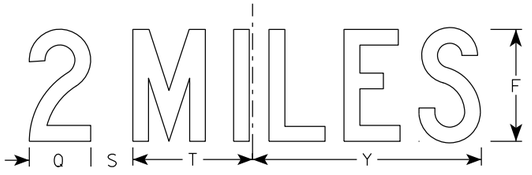
W20-1B



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

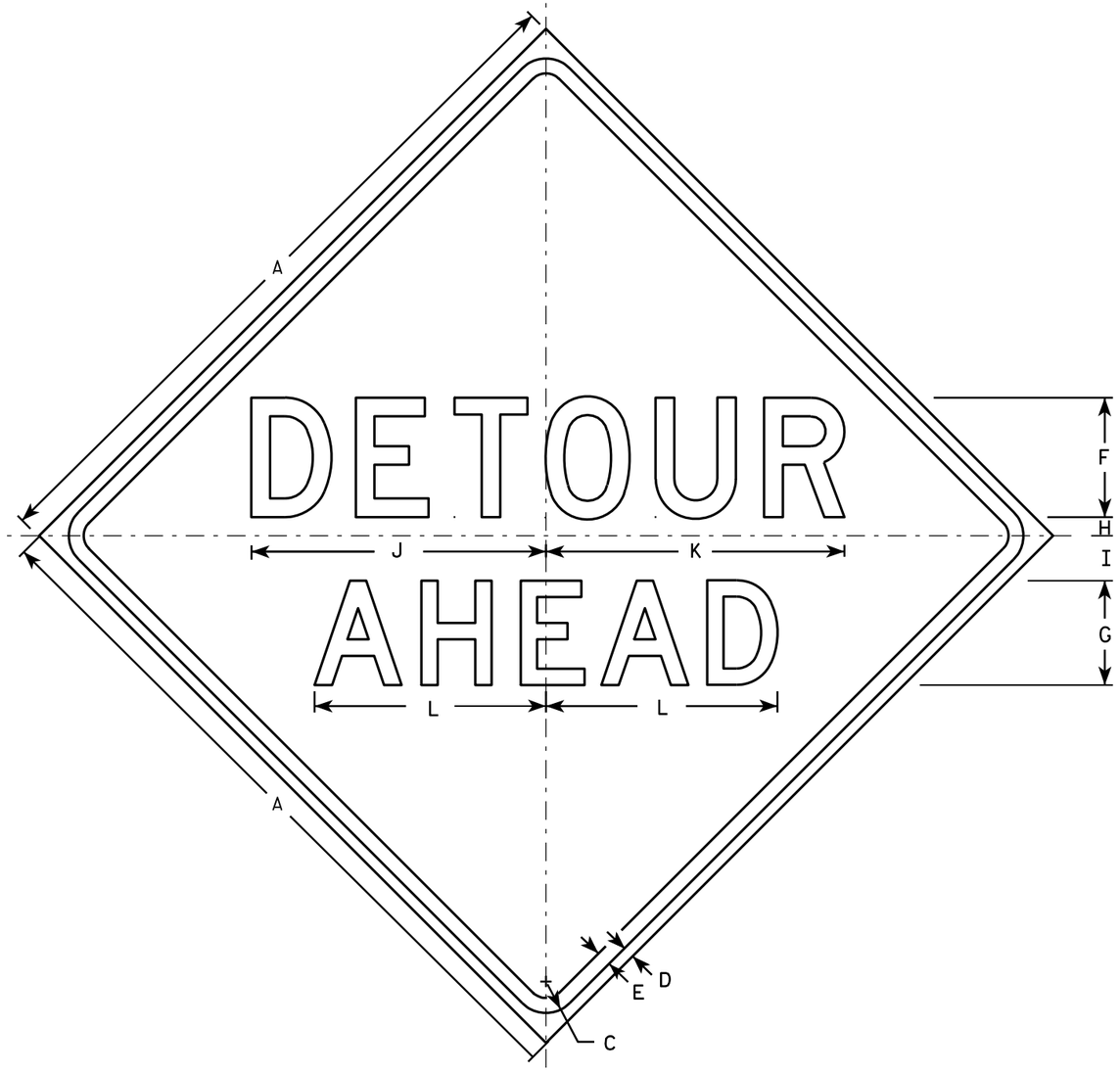
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

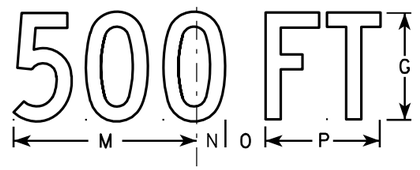
WISDOT/CADDS SHEET 42

7

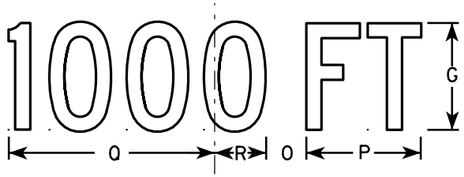
7



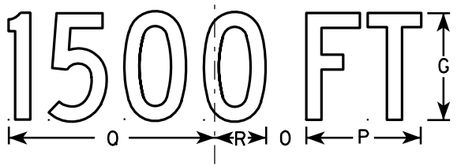
W20-2A



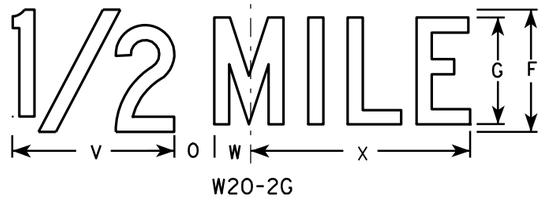
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

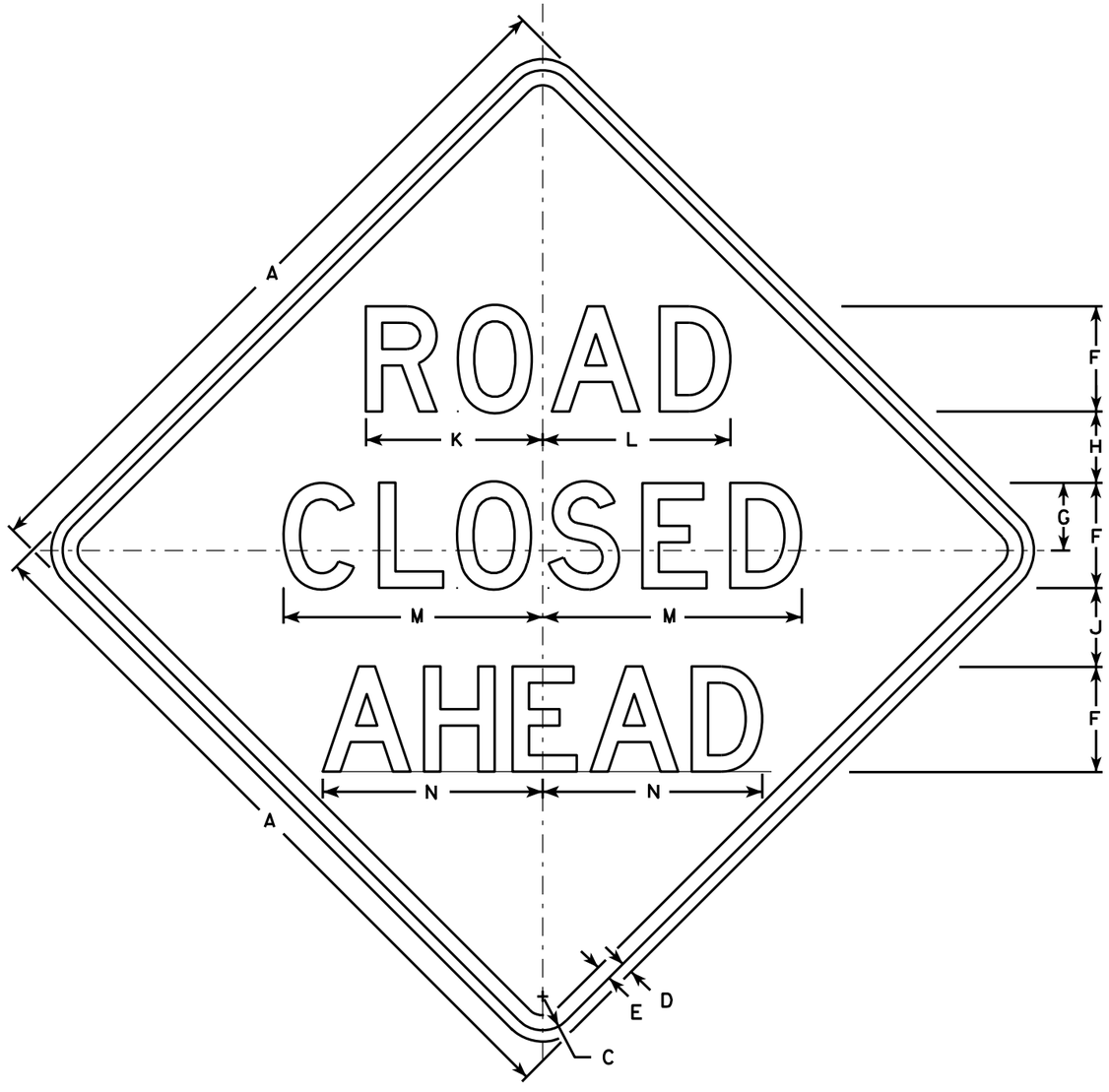
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

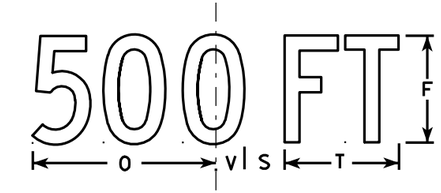
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

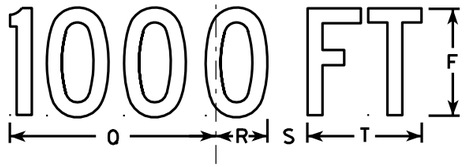
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 606	E



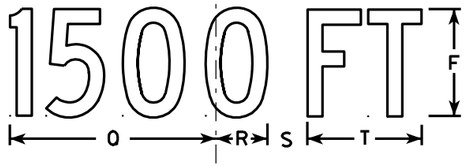
W20-3A



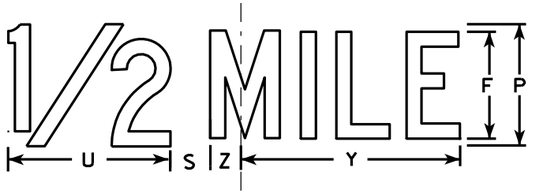
W20-3D



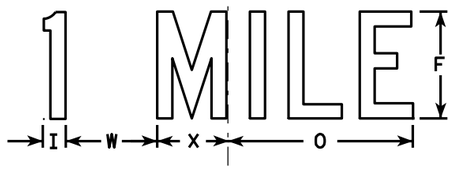
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

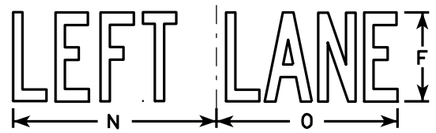
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

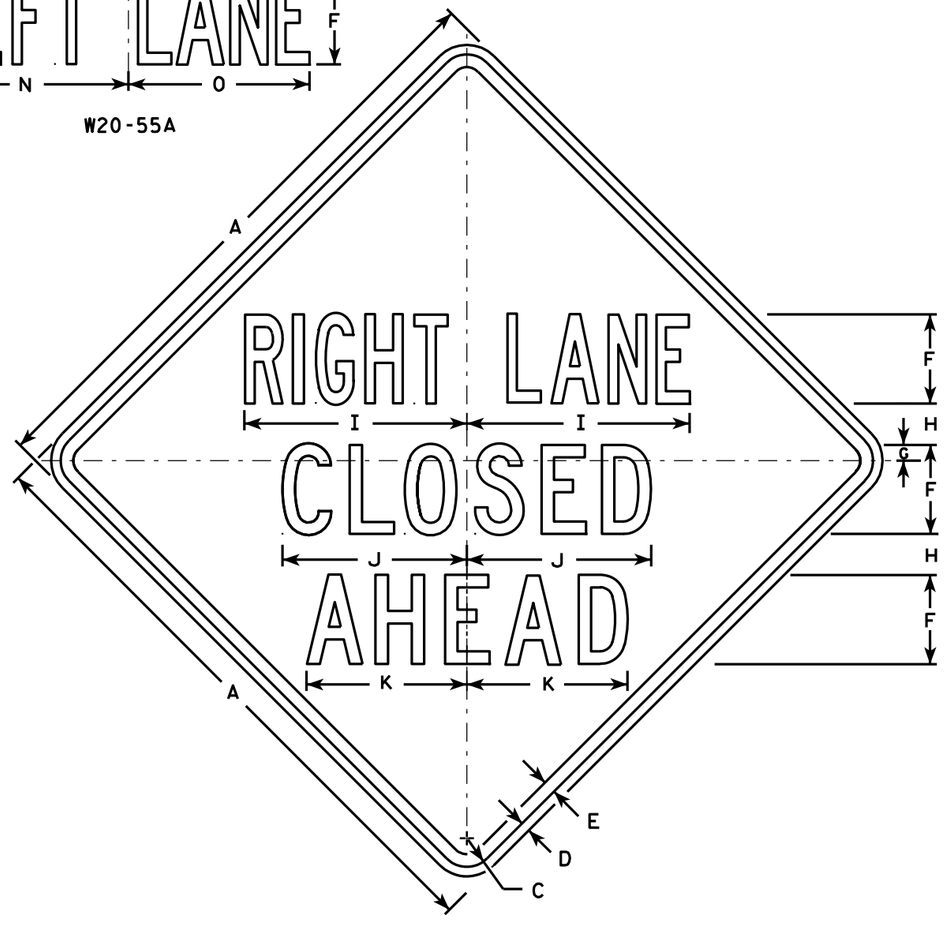
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 607 | E



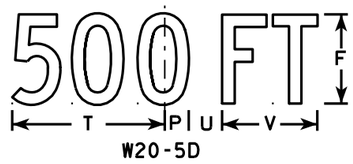
W20-56A



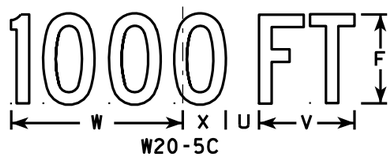
W20-55A



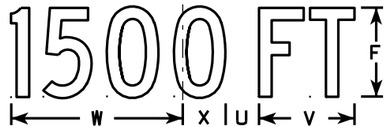
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

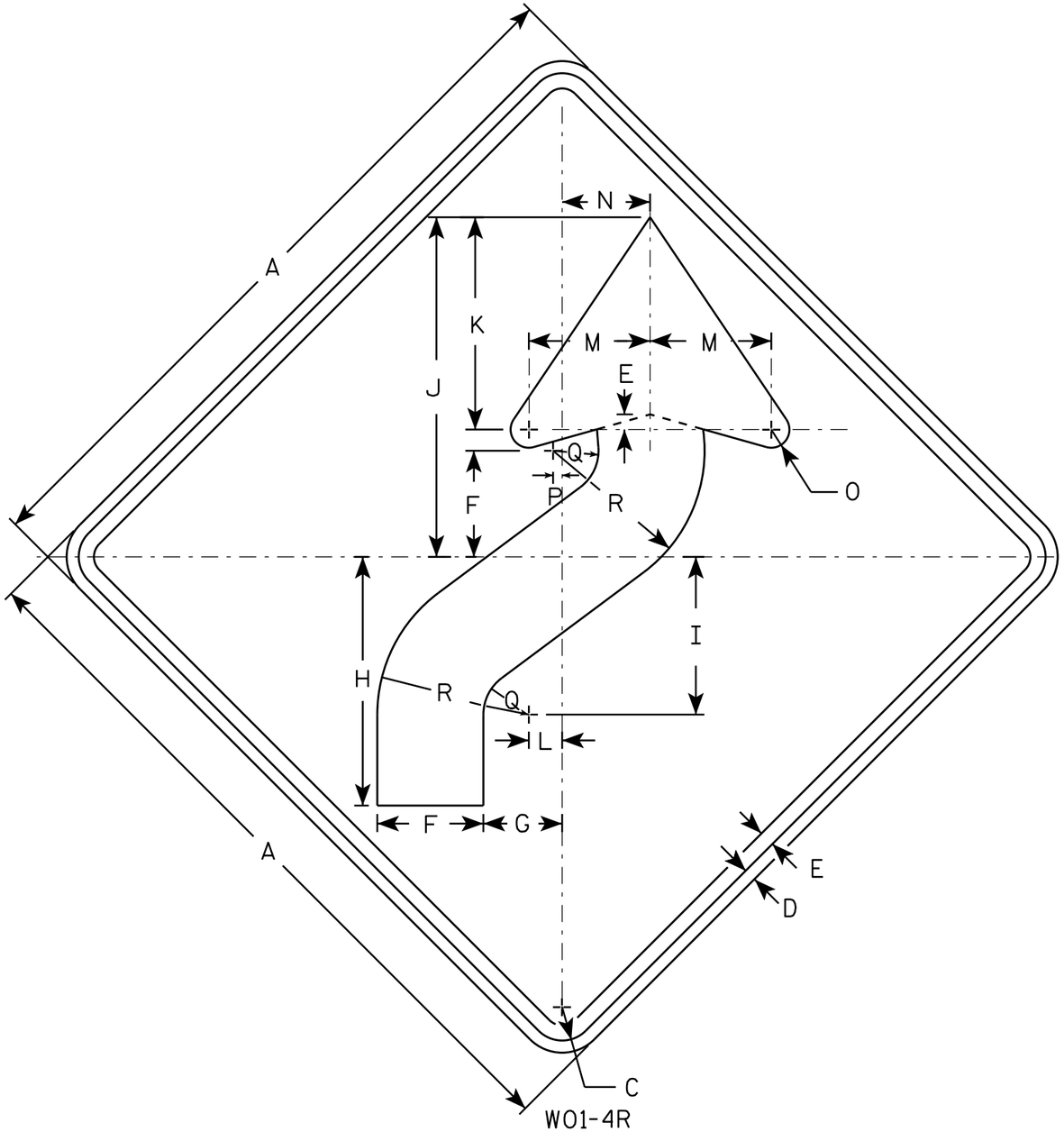
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 608	E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000 WISDOT/CADDS SHEET 42



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

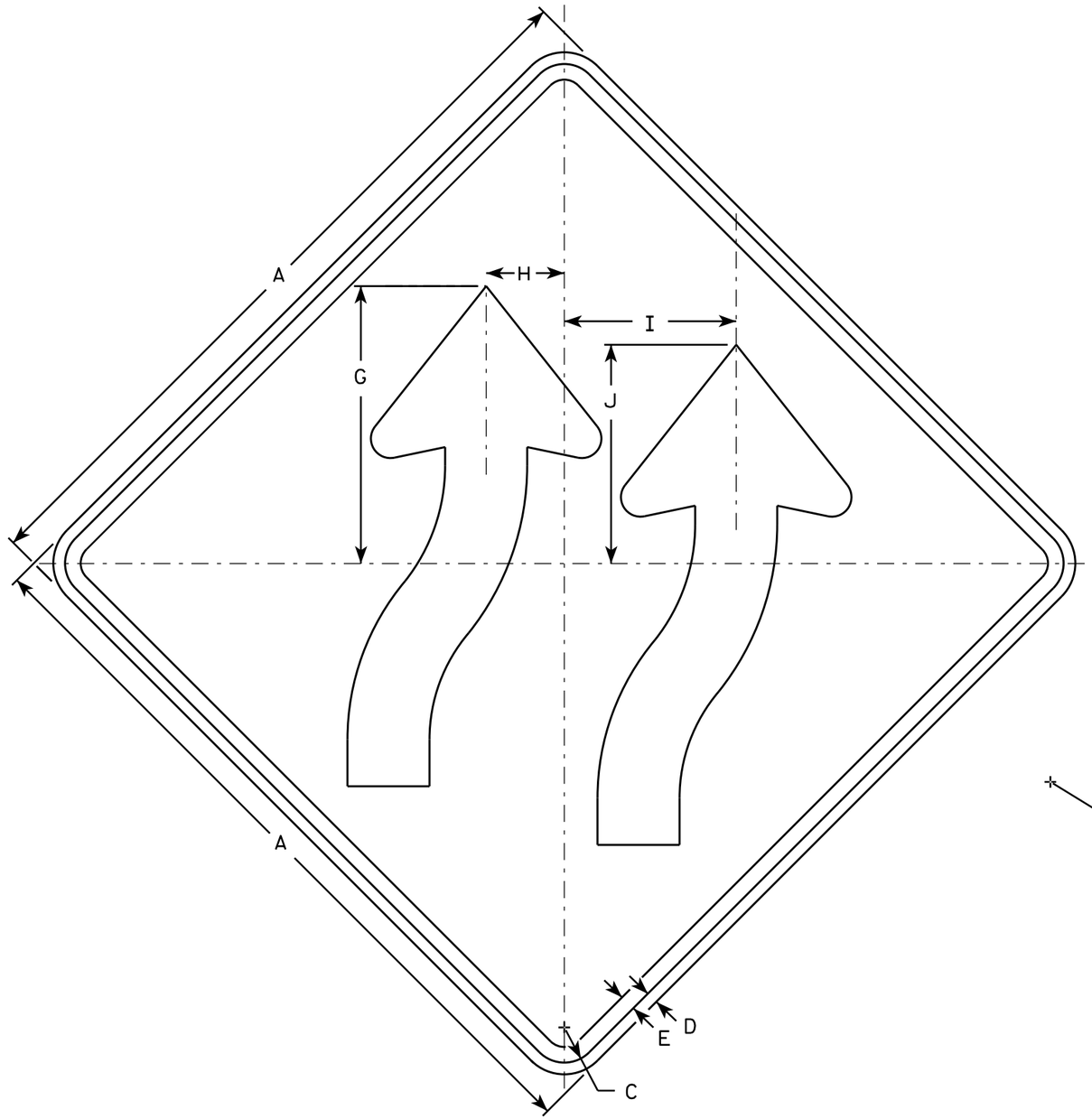
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

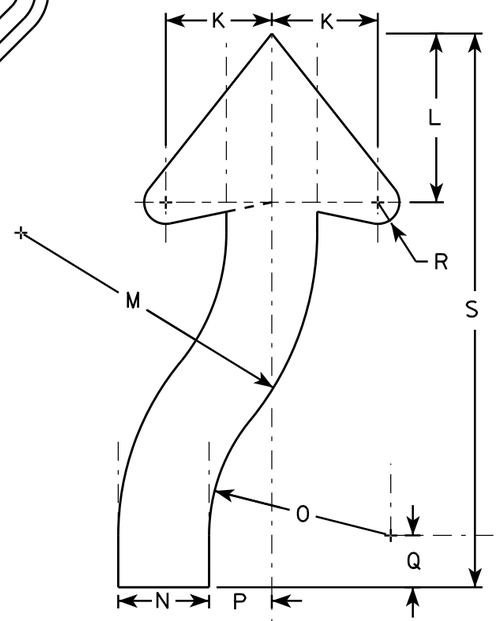
DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000 WISDOT/CADDS SHEET 42



W01-4bR



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4bL is the same as W014-bR exept arrows are reversed along the vertical centerline

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2S	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
2M	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
3	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

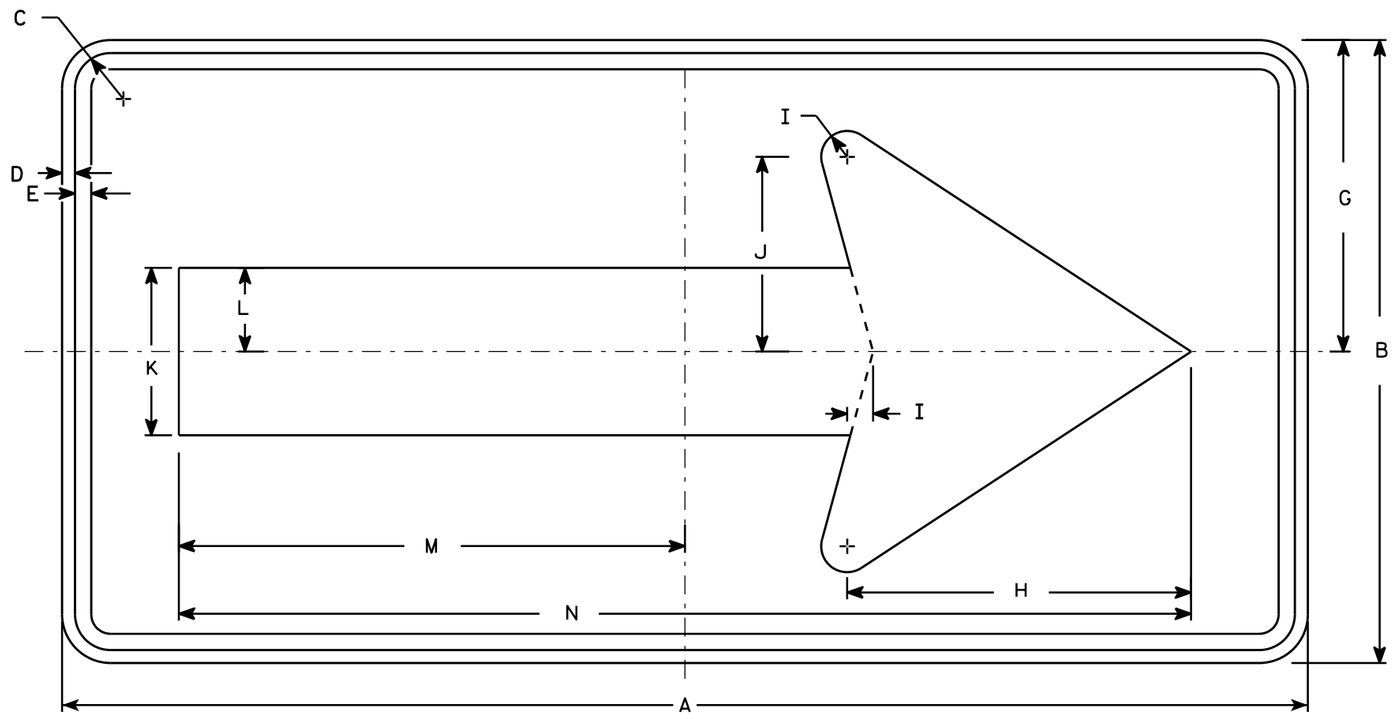
STANDARD SIGN
W01-4b

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-4b.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

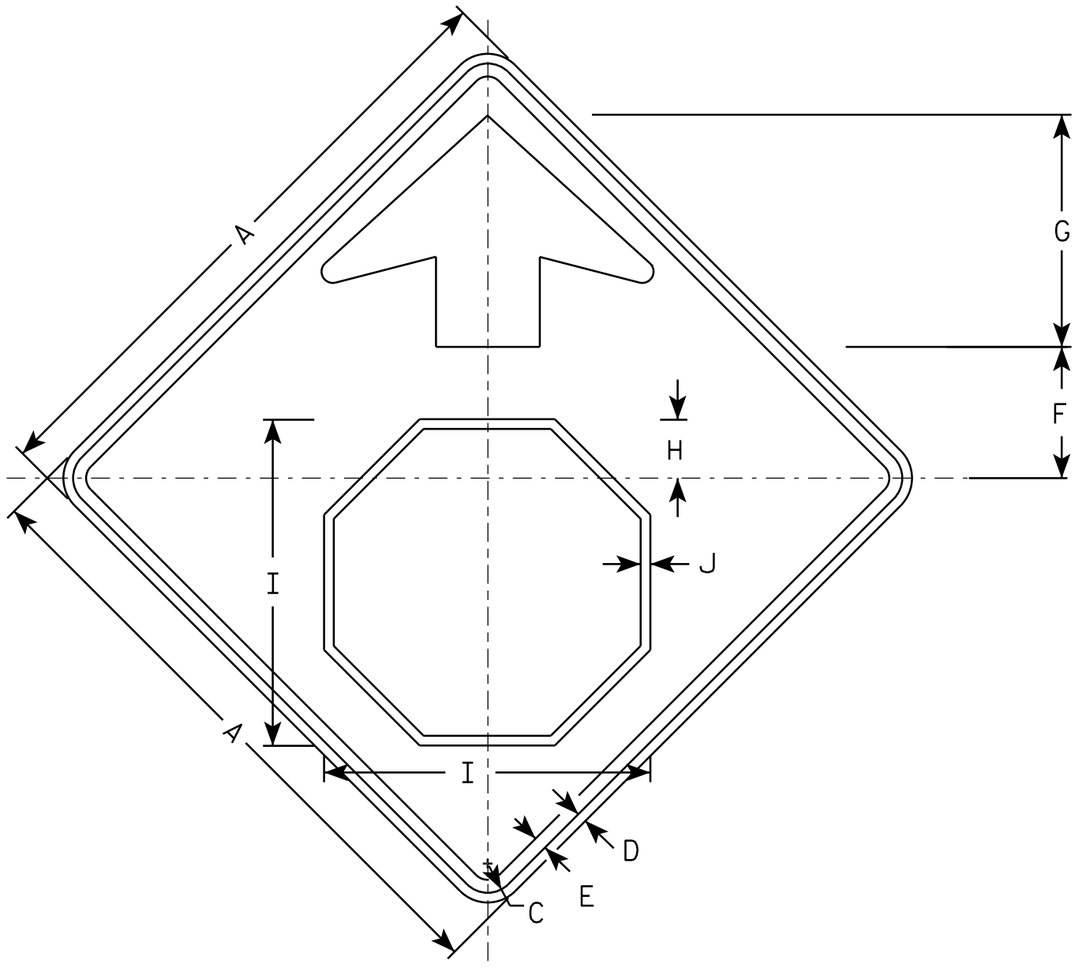
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

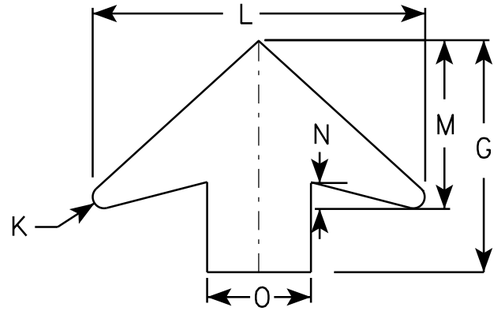
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W03-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W03-1

WISCONSIN DEPT OF TRANSPORTATION

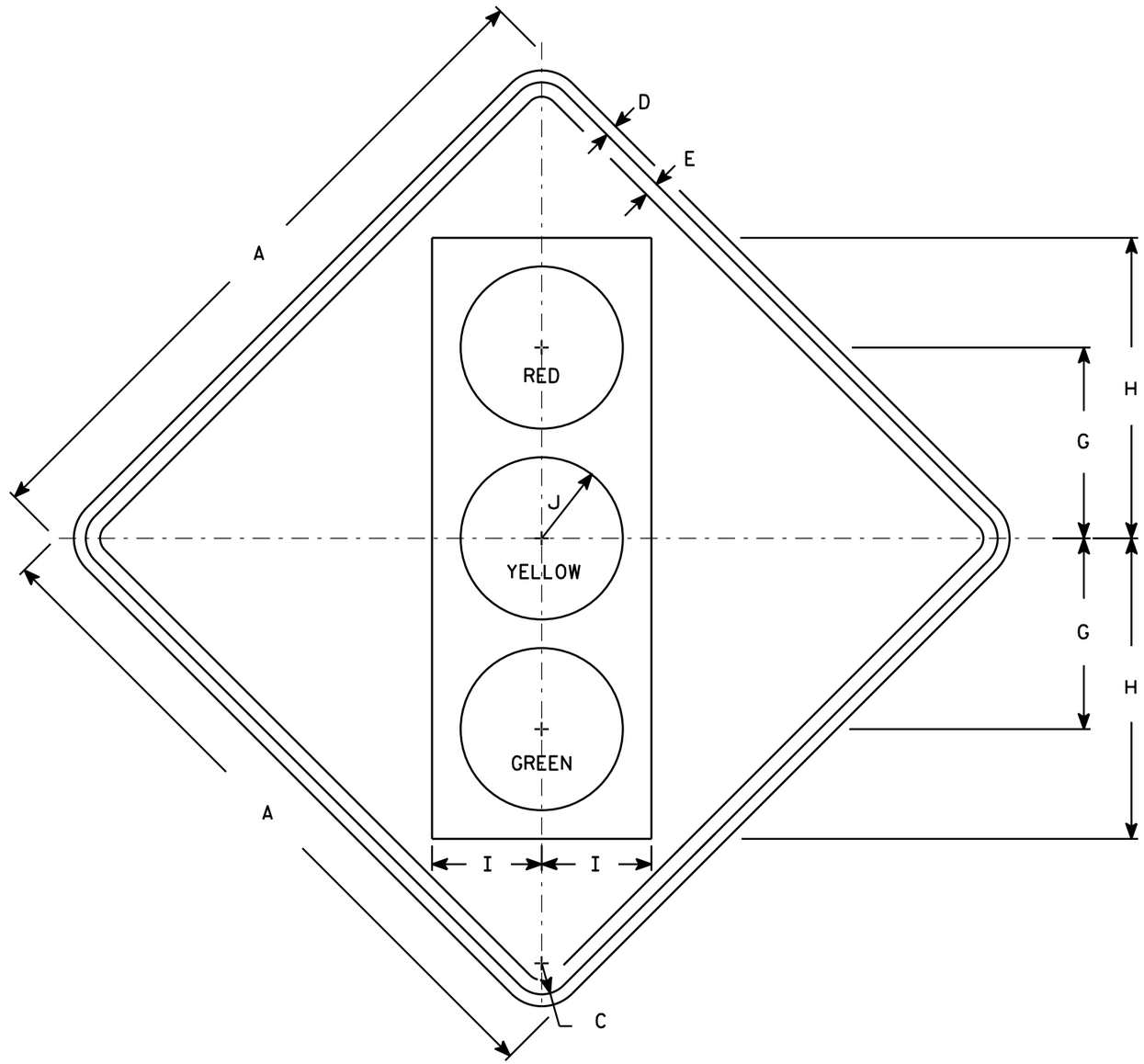
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 612 03-1.1

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W031.DGN PLOT DATE : 20-NOV-2013 10:54 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



W03-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

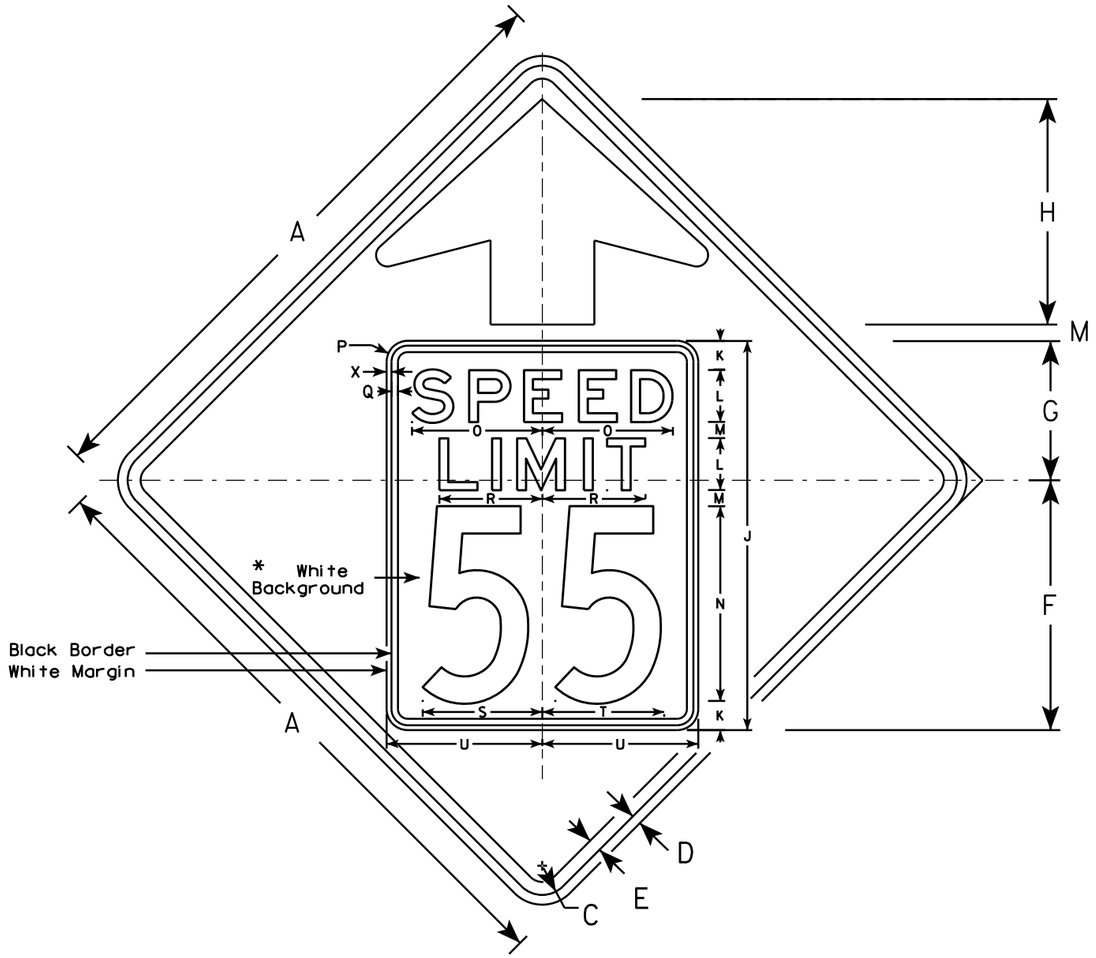
STANDARD SIGN
W03-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 613 W03-3.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

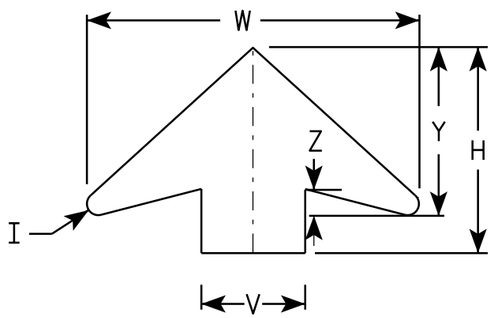


W03-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - ORANGE*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W03-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

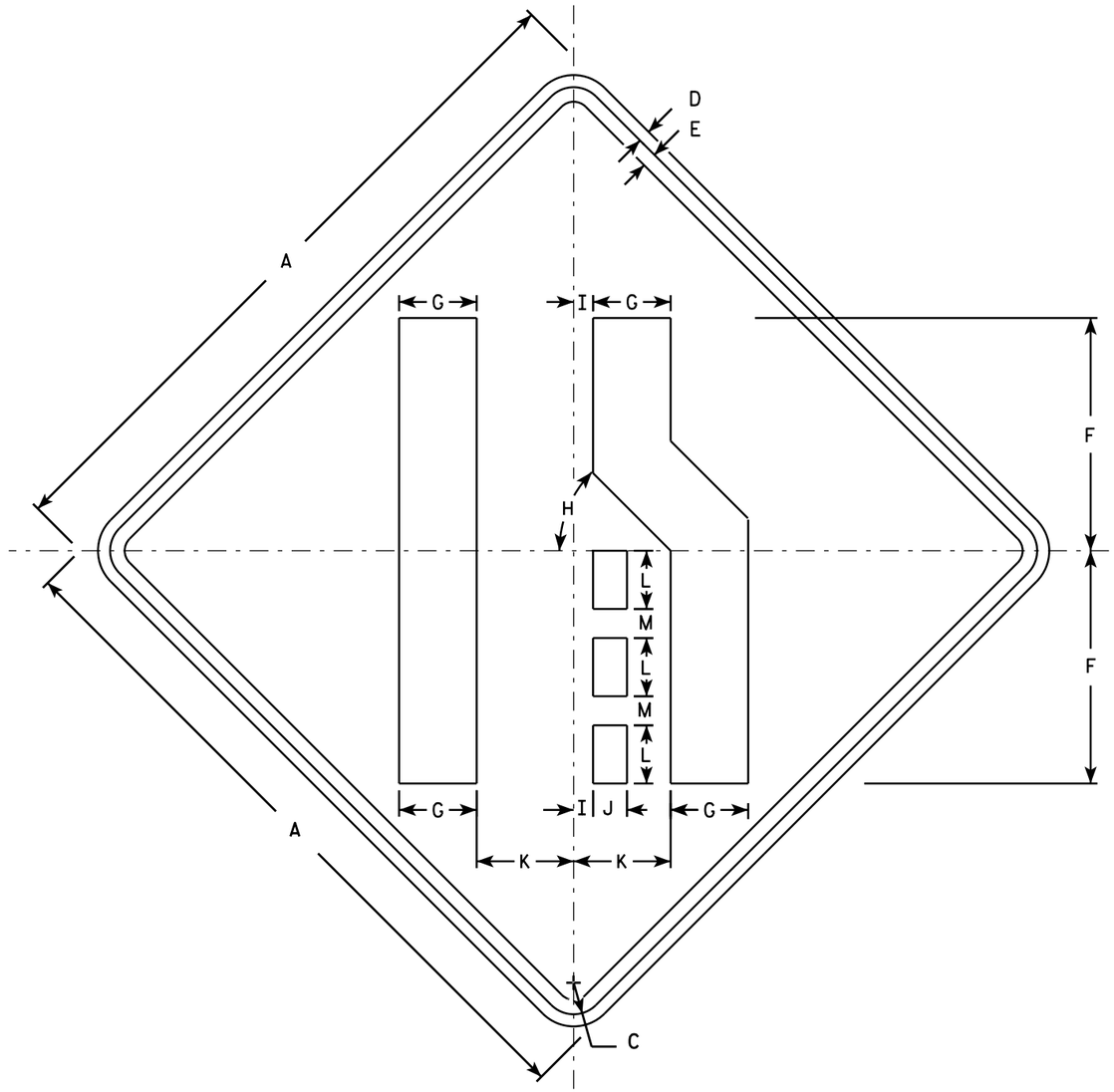
DATE 11/20/13 PLATE W03-5.1

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W035.DGN PLOT DATE : 20-NOV-2013 11:32 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7 7



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

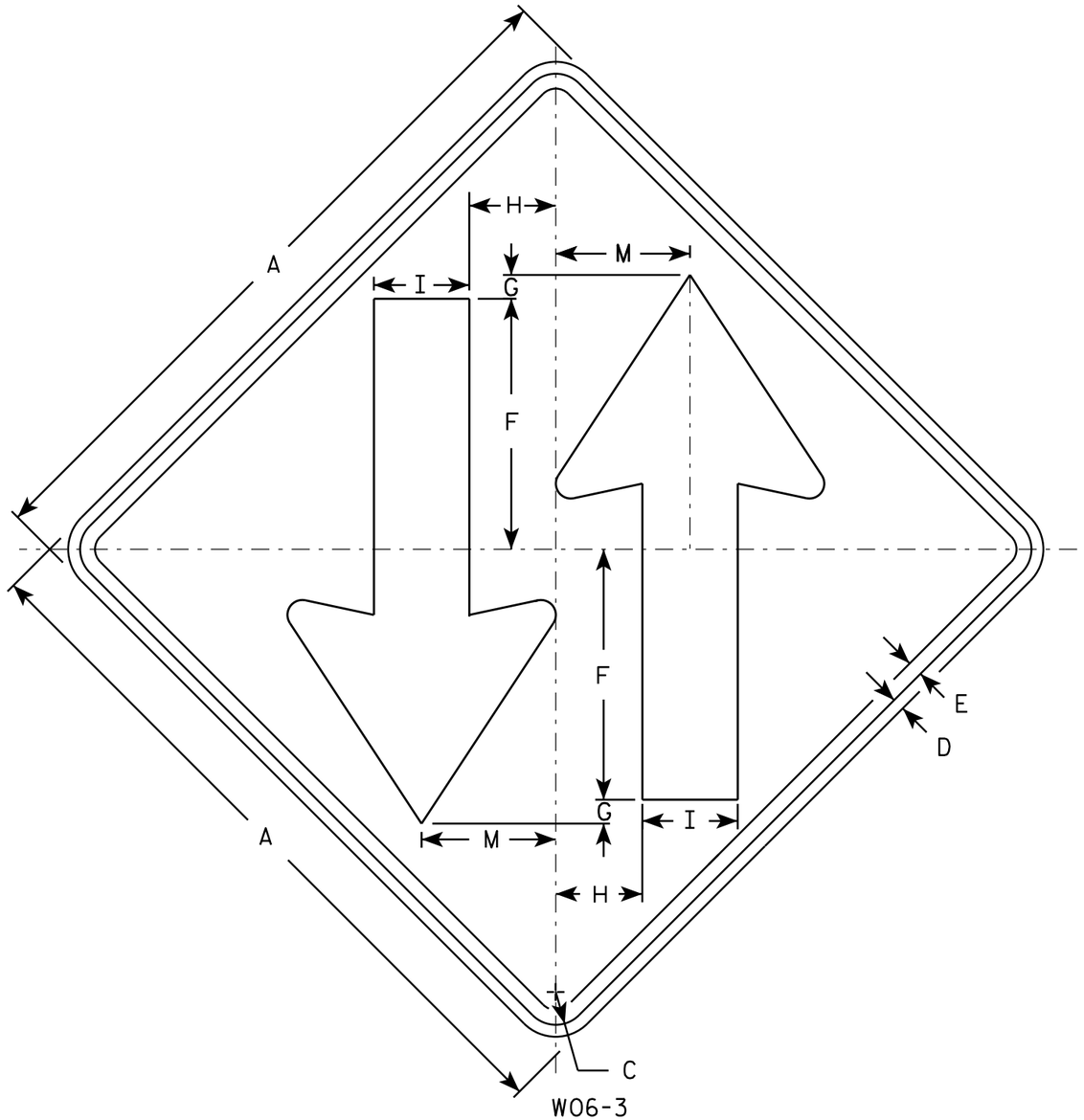
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 615 W04-2.1

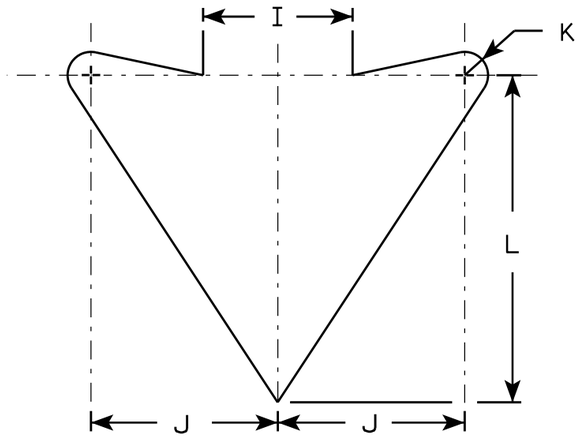
PROJECT NO: | SHEET NO: E



W06-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

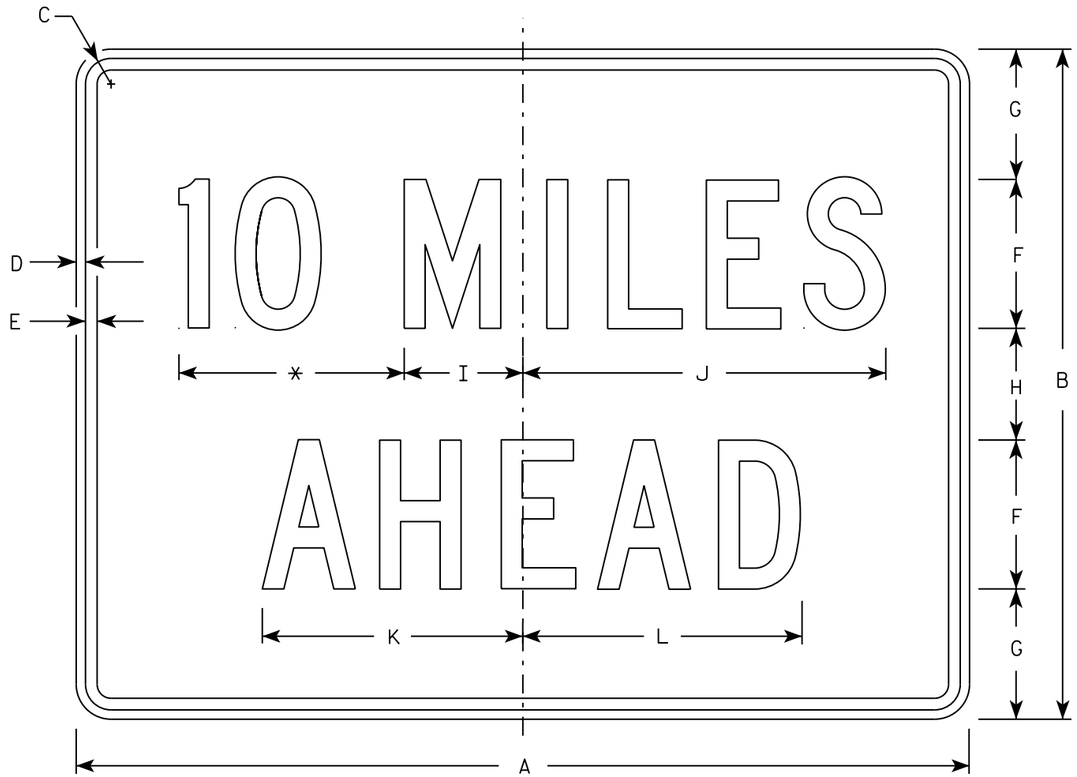
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

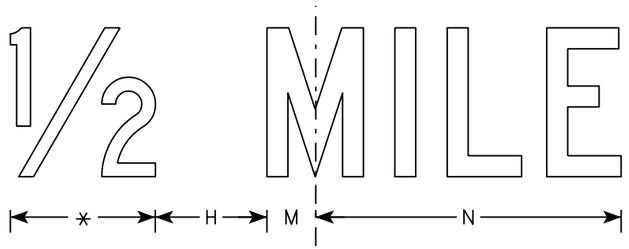
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 616 W06-3.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 617	E

DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

STANDARD FOUNDATIONS DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS

STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I (MAX DC):	1.1 DC + 1.0 W + 1.0 ICE
EXTREME I (MIN DC):	0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)
	1.0 TRG (TRUCK INDUCED GUST VIBRATION)
	1.0 GVW (GALLOPING - CANTILEVER ONLY)

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE, ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), XXXX COUNTY ZONE, NAD 83 (1997). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE TRUSS OR MONOTUBE BID ITEMS FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT (DIA.)".

STRUCTURE DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN DEPTH	STANDARD TYPE
S-40-3098	24 SF	6'-0"	TCIII

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. LAYOUT S-40-3098

LIST OF OSS STANDARD DESIGN DRAWINGS

3. I. MONOTUBE & 2-CHORD TRUSS DETAILS 1
4. II. MONOTUBE & 2-CHORD TRUSS DETAILS 2
5. III. MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS
6. IV. MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

STATE PROJECT NUMBER

2040-14-70

TRAFFIC VOLUME

A.D.T. (2045) = 26,600
R.D.S. = 45-55 MPH

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEM	UNIT	S-40-3098			
204.0246	REMOVING ANCILLARY STRUCTURE (S-40-780)	EACH	1			
531.2048	DRILLING SHAFT 48-INCH	LF	23			
531.5130	FOUNDATION SINGLE-SHAFT TCIII	EA	1			
532.5330	TRUSS CANTILEVER 2-CHORD TYPE III (S-40-3098)	EA	1			

STRUCTURE DESIGN CONTACTS:

AARON BONK (608) 261-0261
JACOB BONDHUS (773)-520-2078

THESE ARE STANDARD DESIGN PLANS, DEVELOPED AND MAINTAINED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION. THE DESIGNER CERTIFIES THAT THE DESIGN AND PLAN DETAILS CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISCONSIN BRIDGE MANUAL CHAPTER 39.

WISCONSIN PROFESSIONAL ENGINEER
JAKE O BONDHUS
E-46248
WAUWATOSA
WI

5/4/2023

NO.	DATE	REVISION	BY

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

ACCEPTED SDR 05/17/23
CHIEF STRUCTURES DESIGN ENGINEER DATE

2-CHORD TRUSS PLANS

USH 45, RAWSON AVE TO COLLEGE AVE

COUNTY	CITY
MILWAUKEE	FRANKLIN

DESIGN SPEC. AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
VL	JB	TAL	VL

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 6
618

I.D. 2040-14-00

DATE: 02/01/2023

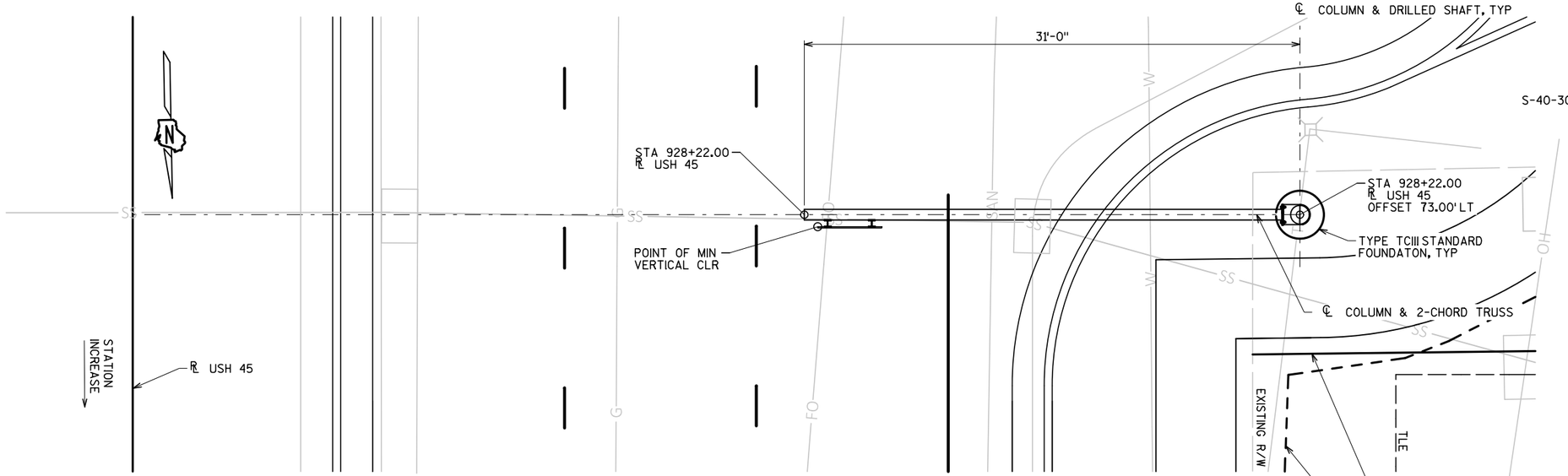
SCALE = 0.50

8

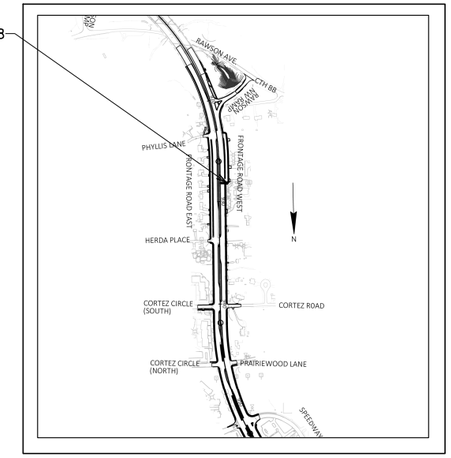
8

STATE PROJECT NUMBER

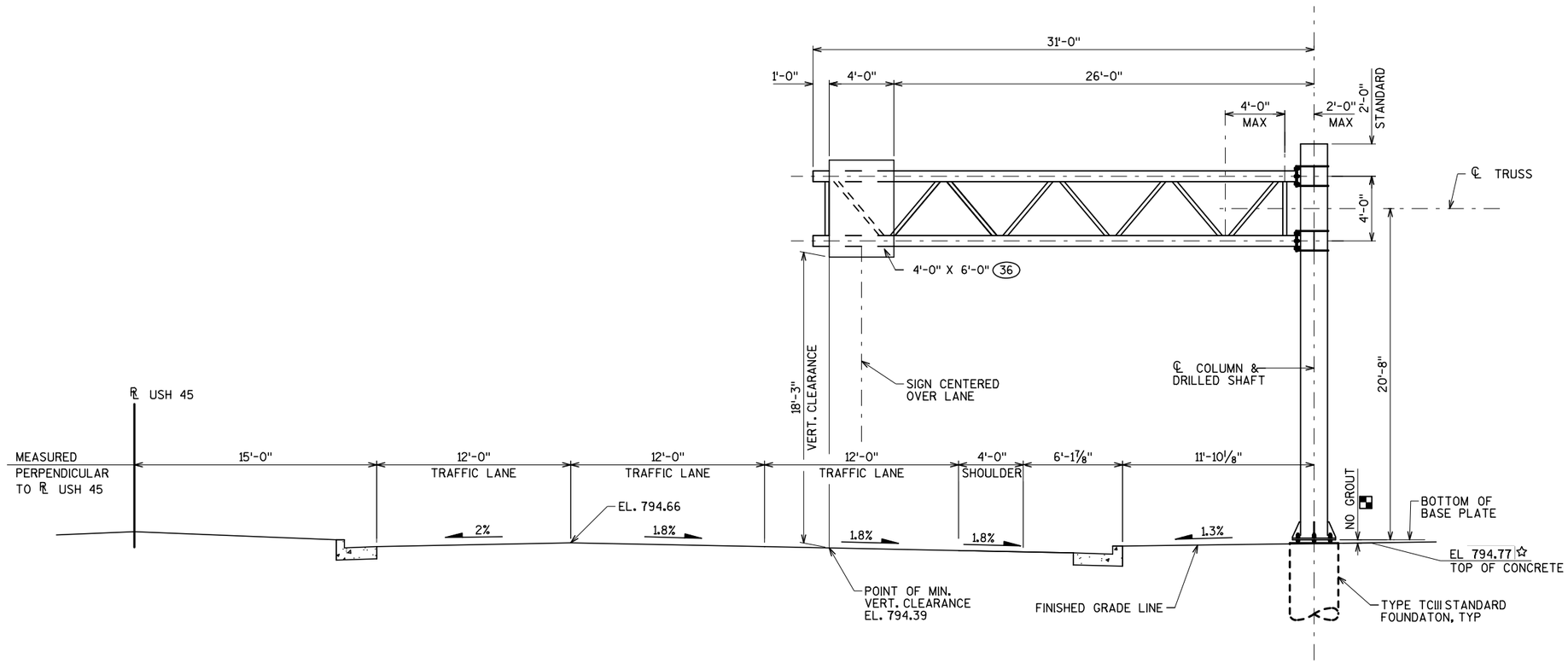
2040-14-70



PLAN



LOCATION MAP



ELEVATION

STA 928+22.00
(LOOKING DOWNSTATION AT FRONT OF SIGN)

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA 928+22.00, 43.0'LT
EL 794.39

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ 2-CHORD TRUSS

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

■ STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR ROD DIAMETER. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-40-3098

DRAWN BY TAL | PLANS CK'D. VL

GENERAL LAYOUT
S-40-3098

SHEET 2 OF 6
619

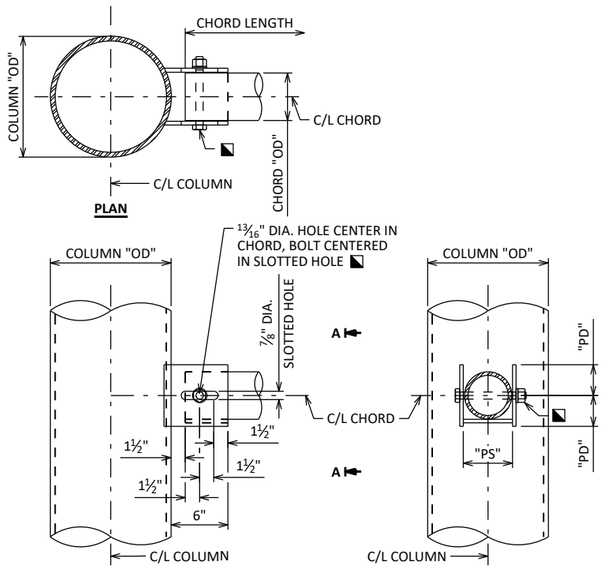
SCALE = 4.00

8

8

STATE PROJECT NUMBER

STANDARD



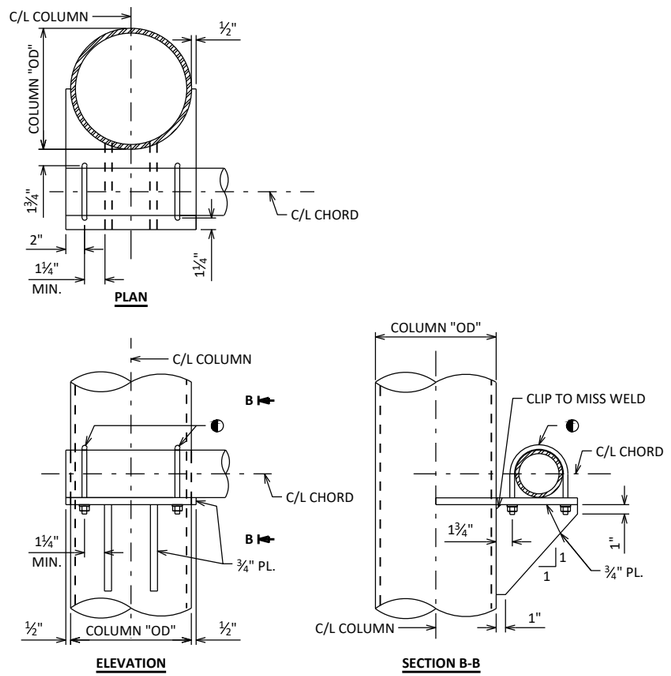
FULL SPAN SADDLE CONNECTION

PREFERRED OPTION

◪ ¾" GALVANIZED A325 OR A449 HEAVY HEX BOLT, NUT AND WASHER SNUG TIGHT ONLY, DO NOT OVER TIGHTEN

"PD" = CHORD "OD"/2 + ¾"

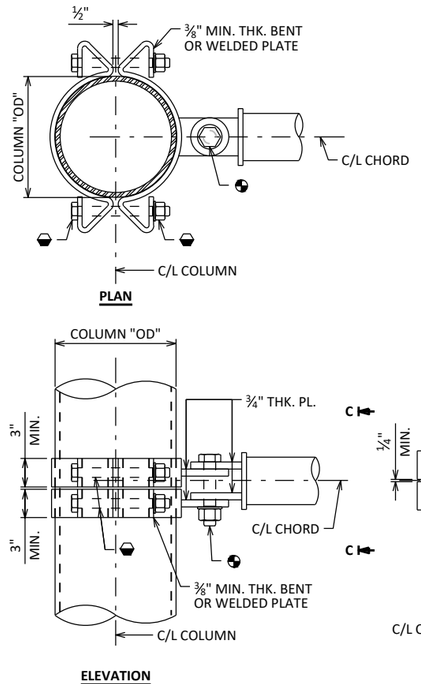
"PS" = CHORD "OD" + 1/16"



FULL SPAN STIFFENED BEARING CONNECTION

ALTERNATE 1

◐ MIN. (2) ½" MIN. GALVANIZED OR STAINLESS U-BOLT, LOCK NUT AND WASHER

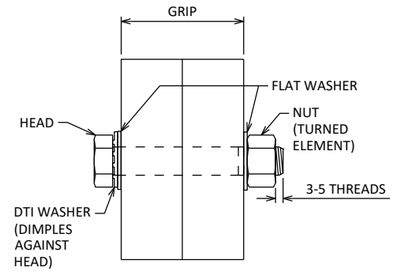


FULL SPAN CLAMP CONNECTION

ALTERNATE 2 - TAPERED COLUMNS ONLY

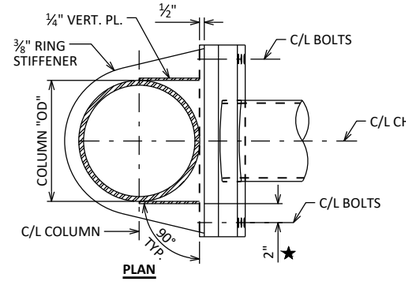
◓ 1¼" GALVANIZED A325 HEAVY HEX BOLT, NUT AND WASHER

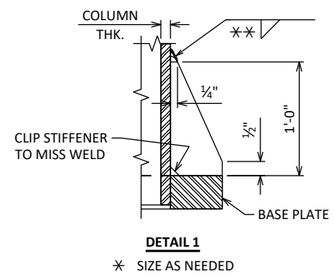
◒ 1" GALVANIZED A325 HEAVY HEX BOLT, NUT AND WASHER

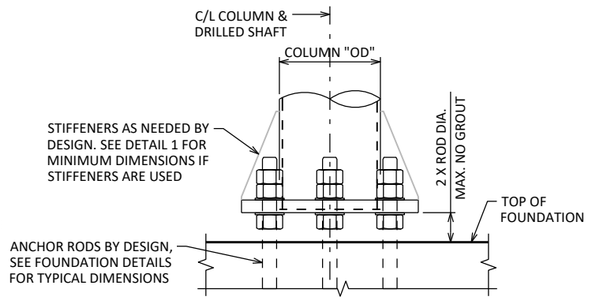


RECOMMENDED BOLT DETAIL WITH DTI WASHER

NUT IS TURNED ELEMENT

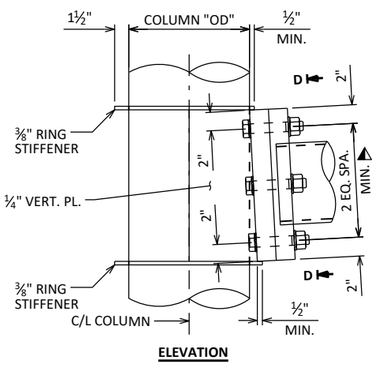


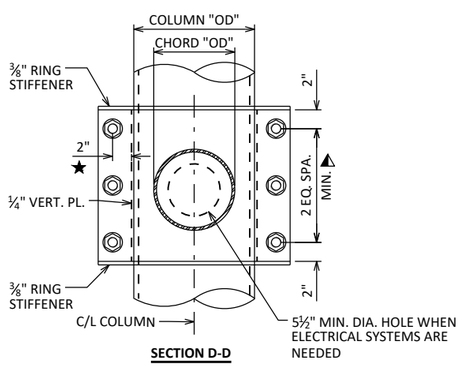




PREFERRED BASE PLATE CONNECTION

LOOKING AT F.F. OF STRUCTURE.
ALTERNATE BASE PLATE DESIGNS ALLOWED.

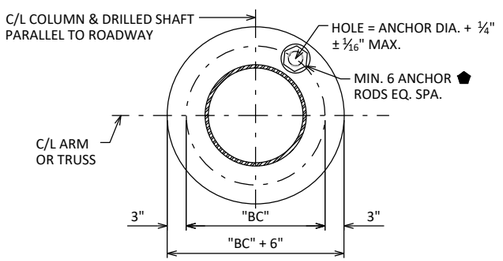




CANTILEVER POST TO CHORD CONNECTION

◭ MIN. (6) 1" GALVANIZED A325 HEAVY HEX BOLT, NUT, DTI WASHER AND WASHER

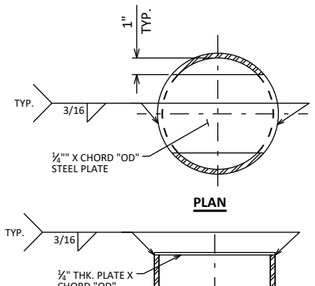
★ MIN. DIMENSIONS MEASURED FROM EXT. FACE OF VERTICAL PLATE.



BASE PLATE

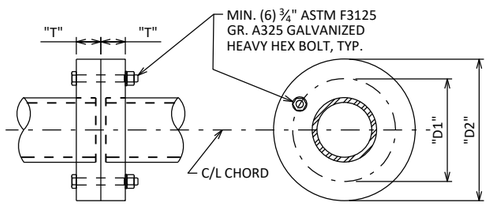
"BC" = COLUMN "OD" + 6"

⬟ ANCHOR SIZE AND ORIENTATION TO BE VERIFIED WITH SHOP DRAWINGS.



CHORD CAP DETAIL

CANTILEVERS ONLY



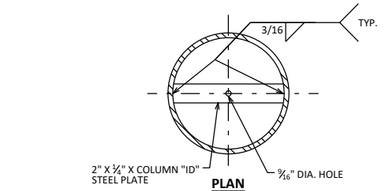
CHORD SPLICE DETAIL

"D1" = COLUMN "OD" + (1.5 x DB)

"D2" = COLUMN "OD" + (3 x DB)

"T" = (BY DESIGN)

DB = BOLT DIAMETER (BY DESIGN)



TOWER CAP DETAIL

✳ PLACE TACK WELD EVERY OTHER FLAT TO SECURE NUT. ALTERNATE: USE ½" THK. PL. AND DRILL AND TAP HOLE FOR BOLT.

NOTES:

MINIMUM VALUES SHOWN. ALL CONNECTIONS ARE TO BE DESIGNED FOR ACTUAL STRUCTURAL LOADS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JAN. 2023

DRAWN BY: BOS | PLANS CK'D: BOS

MONOTUBE & 2-CHORD TRUSS CONNECTIONS 1

SHEET 1
620

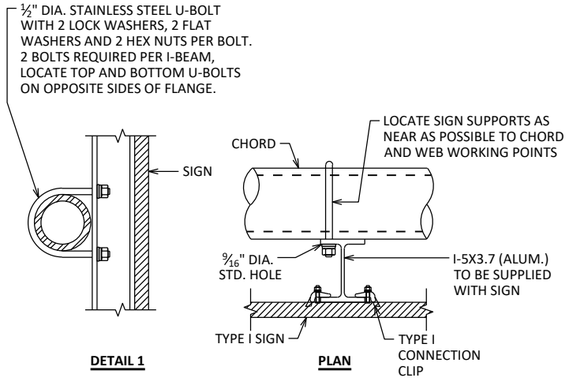
SCALE = 2.0

8

8

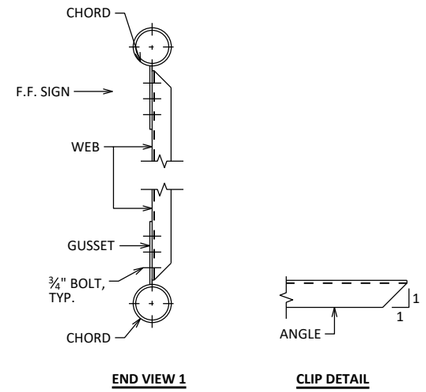
STATE PROJECT NUMBER

STANDARD



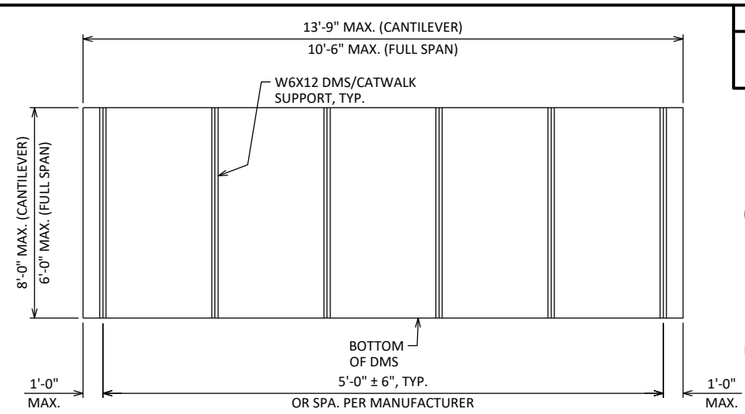
2-CHORD TRUSS SIGN CONNECTION

TYPE I SIGN PANEL SHOWN.
SEE SIGN PLATE MANUAL A4-7A AND A4-7BFOR DETAILS.
ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH SIGN PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.



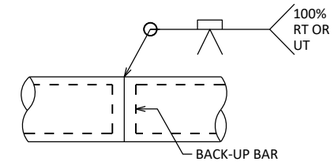
TRUSS CONNECTION DETAILS

MEMBER ORIENTATION FOR BOLTED CONNECTIONS SHOWN, WELDED CONNECTIONS SIMILAR



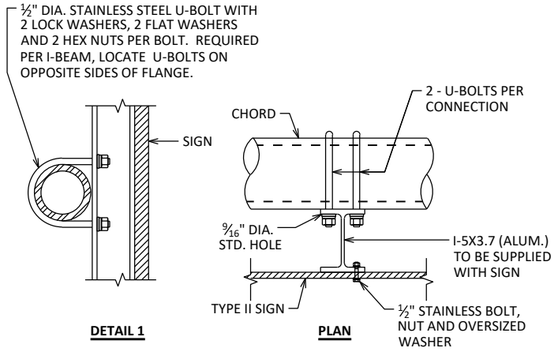
DMS MOUNTING POST DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF SPACING CONFLICTS WITH GUSSET PLATES OF TRUSS WITHIN TOLERANCES NOTED.



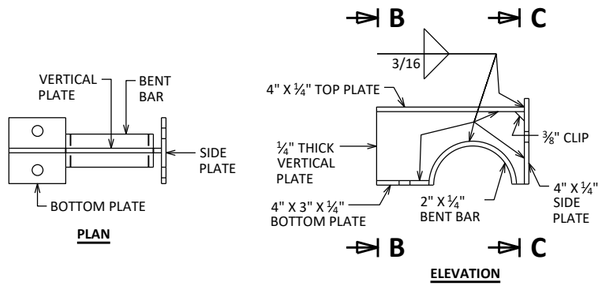
CHORD SPLICE

SEPARATE OPTIONAL SPLICE FROM GUSSET PLATES BY 6" MIN.

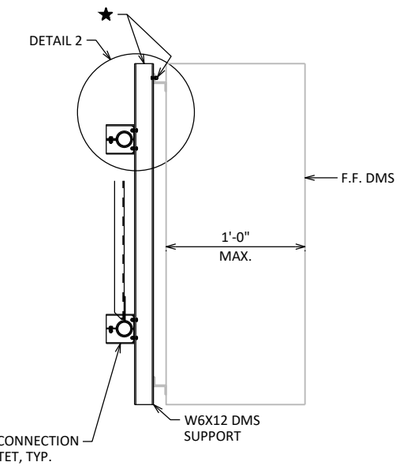


MONOTUBE SIGN CONNECTION

TYPE II SIGN PANEL SHOWN.
SEE SIGN PLATE MANUAL A4-7A AND A4-7B FOR DETAILS.
ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH SIGN PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.



DMS WELDED PLATE CONNECTION DETAILS

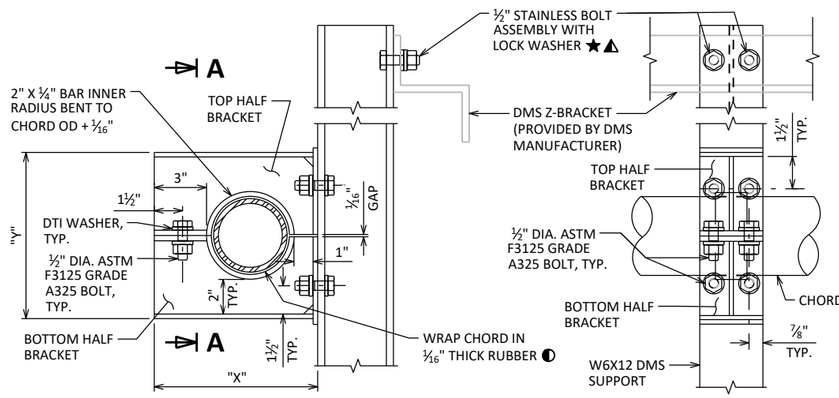


SECTION THRU TRUSS - DMS

FOR DMS/CATWALK CONNECTIONS

★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. ½" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12

TOP HALF OF BRACKET SHOWN, BOTTOM HALF SIMILAR.

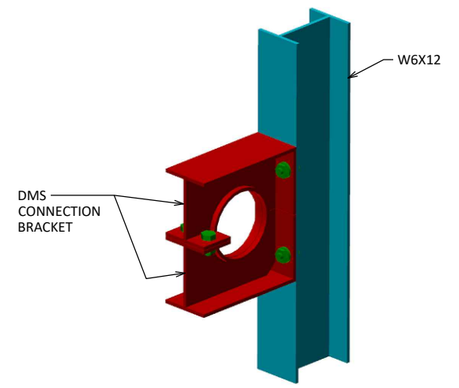


CHORD "OD"	"X"	"Y"
"OD"	"OD" + $4\frac{13}{16}$"	"OD" + $5\frac{5}{16}$"

TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD. SPEC. 506.2.6.1

⚠ IF DMS CONNECTION BRACKET IS USED WITH A TYPE II SIGN PANEL, THE BOLT HOLE MUST BE GALVANIZED AND A STAINLESS WASHER USED BETWEEN THE I-BEAM AND SIGN PANEL.



3-D VIEW OF DMS CONNECTION

CHORD NOT SHOW FOR CLARITY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JAN. 2023

DRAWN BY BOS | PLANS CK'D BOS

MONOTUBE & 2-CHORD TRUSS CONNECTIONS 2

SHEET II
621

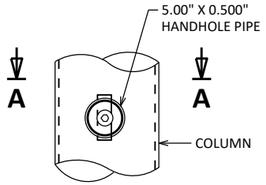
SCALE = 4.0

8

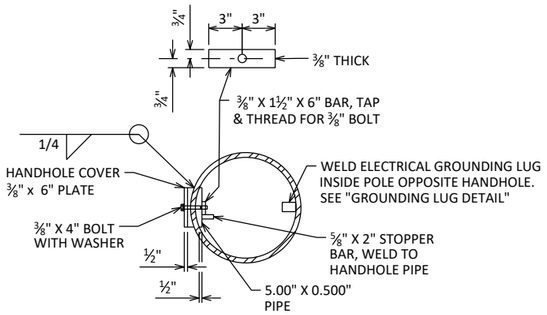
8

STATE PROJECT NUMBER

STANDARD



ELEVATION

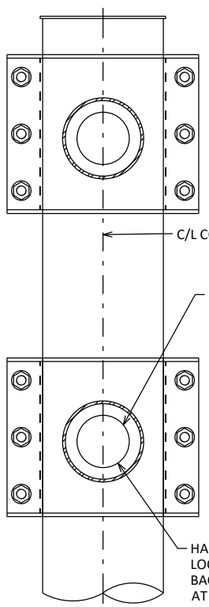


SECTION A-A

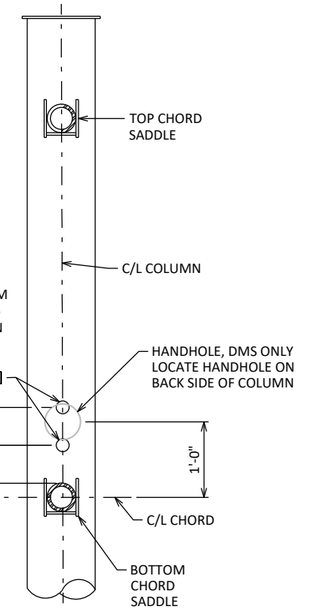
HANDHOLE DETAILS

HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

UNLESS OTHERWISE NOTED, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.



2-CHORD CANTILEVER

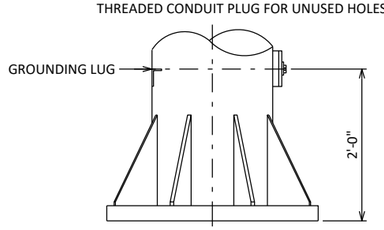


2-CHORD FULL SPAN

SADDLE CONNECTION SHOWN, OTHERS SIMILAR

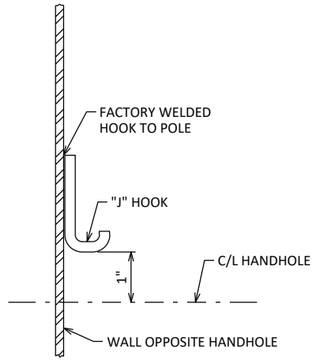
CONDUIT HOLE LOCATIONS

◧ 2" HOLE WITH STANDARD PIPE THREADS, USE THREADED CONDUIT PLUG FOR UNUSED HOLES



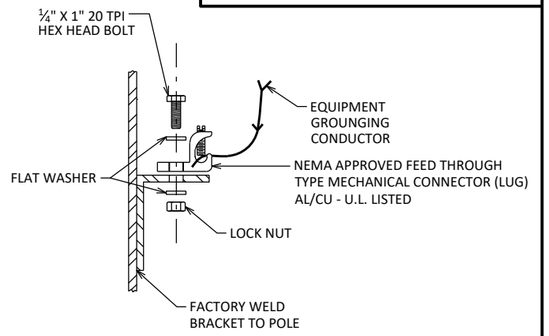
GROUNDING LUG LOCATION

LOOKING AT THE F.F. OF STRUCTURE



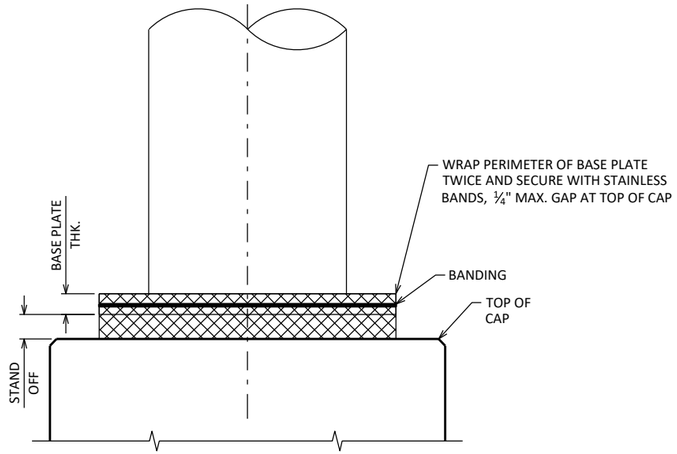
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF THE COLUMN CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.



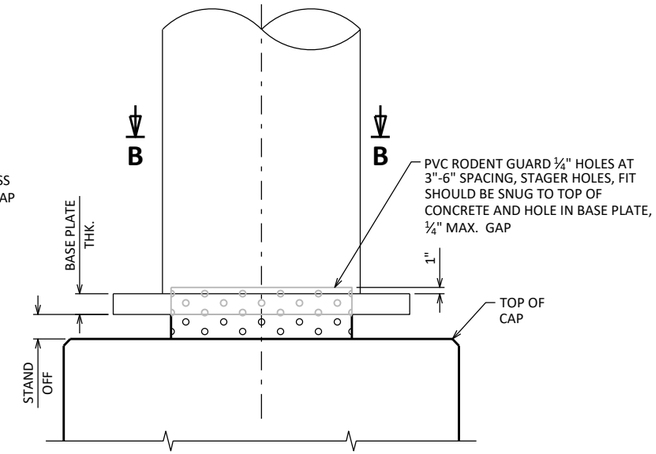
GROUNDING LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



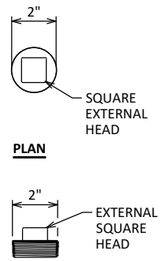
RODENT SCREEN

ONLY REQ'D WHEN ELECTRICAL DEVICES ARE PRESENT
ANCHOR RODS NOT SHOWN



RODENT SCREEN - ALTERNATE

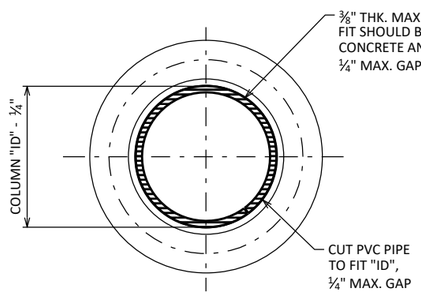
ONLY REQ'D WHEN ELECTRICAL DEVICES ARE PRESENT
ANCHOR RODS NOT SHOWN



PLAN

ELEVATION

CONDUIT PLUG DETAILS



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JAN. 2023

DRAWN BY: BOS | PLANS CK'D: BOS

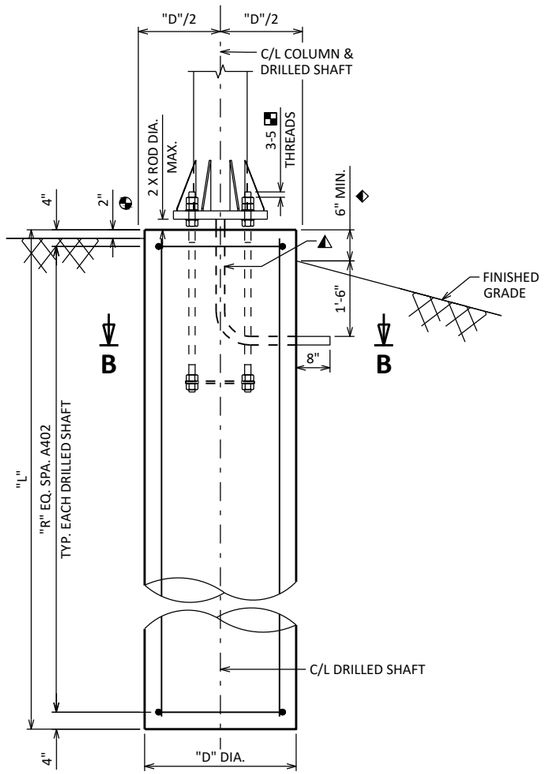
MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS

SHEET III
622

SCALE = 2.0

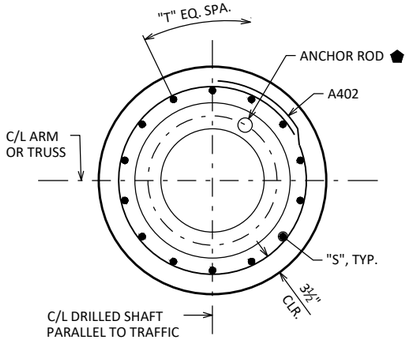
8

8



ELEVATION

- TYPICAL FOR DRILLED SHAFT FOOTINGS INSTALLED ADJACENT TO SIDEWALKS OR BEHIND CURB AND GUTTER ON LOW SPEED ROADS. TOP OF SHAFT SHALL BE FLUSH IF SURROUNDED BY CONCRETE AND 2" ABOVE FINISHED GRADE FOR ALL OTHER SURFACES.
- TYPICAL FOR EACH DRILLED SHAFT FOOTING INSTALLED ADJACENT TO ROADWAY FACILITIES OR ON SIDE SLOPES WITHIN CLEAR ZONE. BARRIER OR BEAMGUARD MAY BE REQUIRED.



SECTION B-B

TYPICAL FOR EACH DRILLED SHAFT FOOTING

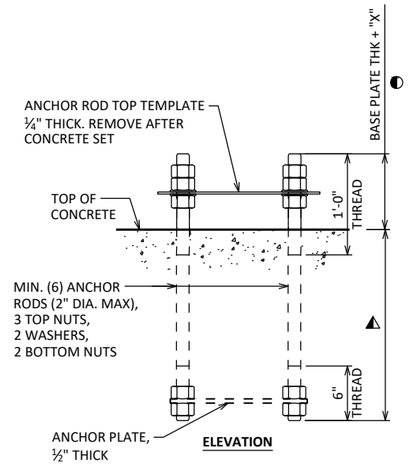
FOUNDATION DIMENSION DATA

STANDARD DESIGN TYPE	FOUNDATION DIMENSIONS					
	"D"	"L"	"R"	"S"	"T"	"BC" MAX.
MFI	2'-0"	12'-0"	12	A801	6	1'-0"
MFII	2'-6"	13'-0"	13	A801	10	1'-5"
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	1'-5"
TCI	3'-0"	18'-0"	18	A801	14	1'-10"
TFII	3'-0"	20'-0"	20	A801	14	1'-10"
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	2'-4"
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	2'-4"
TCIII	4'-0"	23'-0"	23	A1001	14	2'-10"
TCIV	4'-0"	28'-0"	28	A1001	14	2'-10"

ESTIMATED QUANTITIES - FOUNDATION

STANDARD DESIGN TYPE	CONCRETE MASONRY	STEEL REINFORCEMENT HS	FOUNDATION DRILLING (DIA.) (LF)				
	(CY)	(LBS)	24"	30"	36"	42"	48
MFI	2	240	12	---	---	---	---
MFII	3	410	88	13	---	---	---
MCI/MCII/TFI	4	540	---	17	---	---	---
TCI	5	780	---	---	18	---	---
TFII	6	860	---	---	20	---	---
MCIII/TCII/TFIII	7	970	---	---	---	18	---
MCIV/TFIV	9	1,250	---	---	---	23	---
TCIII	11	1,560	---	---	---	---	23
TCIV	13	1,900	---	---	---	---	28

✶✶ QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON A SINGLE DRILLED SHAFT. MULTIPLY BY 2 FOR FULL SPAN STRUCTURES.



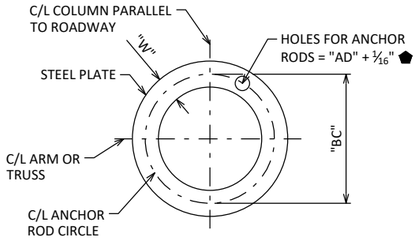
ANCHOR ROD ASSEMBLY DETAILS

ANCHOR RODS PER ASSEMBLY TO BE DESIGNED BY CONTRACTOR AND SHOWN ON SHOP DRAWINGS. SHOW DIAMETER, NUMBER, ORIENTATION AND EMBEDMENT OF ANCHOR RODS.

CENTER ANCHOR ROD ASSEMBLY AND ENSURE ASSEMBLY IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHORS.

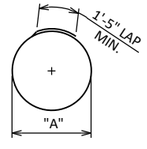
ANCHOR DIAMETER	MAX. STICK OUT ◐
	"X"
1"	5"
1¼"	6"
1½"	7"
1¾"	8"
2"	9"

◐ ADD BASE PLATE THICKNESS TO VALUE SHOWN FOR MAX. STICK OUT DIMENSION. CONTRACTOR TO COORDINATE WITH FABRICATOR FOR PROPER ANCHOR PLACEMENT.



ANCHOR PLATE & TOP TEMPLATE

⬟ ANCHOR SIZE AND POSITION TO BE VERIFIED WITH SHOP DRAWINGS.



A402

LEGEND

▣ ANCHOR ROD STICK OUT IN FINAL CONDITION. EXCESSIVE STICK OUT BEYOND DIMENSION SHOWN TO BE CUT OFF AFTER PLACING STRUCTURE. ANCHORS TO BE ULTRASONIC TESTED TO DETERMINE EMBEDDED LENGTH MEETS REQUIREMENTS PRIOR TO CUTTING. NOTE REMAINING LENGTH ON AS-BUILT.

◭ 2 - 2" DIA. NON-METALLIC CONDUITS. INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BILL OF BARS

STANDARD TYPE MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-8"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-8"			DRILLED SHAFT - VERTICAL
A402		14	9'-4"	X		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		10	16'-8"			DRILLED SHAFT - VERTICAL
A402		18	9'-4"	X		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-8"			DRILLED SHAFT - VERTICAL
A402		19	10'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	19'-8"			DRILLED SHAFT - VERTICAL
A402		21	10'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	17'-8"			DRILLED SHAFT - VERTICAL
A402		19	12'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-8"			DRILLED SHAFT - VERTICAL
A402		24	12'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-8"			DRILLED SHAFT - VERTICAL
A402		24	14'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-8"			DRILLED SHAFT - VERTICAL
A402		29	14'-0"	X		DRILLED SHAFT - HORIZONTAL

✶✶ VALUES IN BAR TABLES ARE FOR A SINGLE FOUNDATION ONLY. MULTIPLY BY 2 FOR FULL ✶✶ SPAN STRUCTURES.

STATE PROJECT NUMBER

STANDARD

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JAN. 2023

DRAWN BY BOS | PLANS CK'D BOS

MONOTUBE & 2-CHORD TRUSS FONDATIONS

SHEET IV
623

SCALE = 3.0

8

8

Project ID: 2040-14-70
Division 1 - USH 45 (South Crossover)

		Area (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut 1.00	Expanded Fill 1.20	Expanded EBS Backfill 1.00	Reduced EBS In Fill 0.80	Mass Ordinate
906+00	0	34.0	0.0	4.5	0.0	0	0	0	0	0	0	0	0	0
906+50	50	46.8	0.0	0.0	0.0	75	0	4	0	75	5	0	0	70
907+00	50	43.2	0.0	0.5	0.0	83	0	0	0	158	6	0	0	153
907+50	50	51.7	0.0	0.0	0.0	88	0	0	0	246	6	0	0	240
908+00	50	102.0	0.0	0.0	0.0	142	0	0	0	388	6	0	0	382
908+50	50	106.0	0.0	0.0	0.0	193	0	0	0	581	6	0	0	575
909+00	50	108.0	0.0	0.0	0.0	198	0	0	0	779	6	0	0	773
				Column totals		779	0	5	0					

Project ID: 2040-14-70
Division 1 - USH 45 (North Crossover)

		Area (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut 1.00	Expanded Fill 1.20	Expanded EBS Backfill 1.00	Reduced EBS In Fill 0.80	Mass Ordinate
967+25	0	27.5	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
967+50	25	49.3	0.0	0.0	0.0	36	0	0	0	36	0	0	0	36
968+00	50	53.6	0.0	0.0	0.0	95	0	0	0	131	0	0	0	131
968+50	50	54.5	0.0	0.0	0.0	100	0	0	0	231	0	0	0	231
969+00	50	55.3	0.0	0.0	0.0	102	0	0	0	333	0	0	0	333
969+50	50	62.8	0.0	0.0	0.0	109	0	0	0	442	0	0	0	442
970+00	50	63.0	0.0	0.0	0.0	116	0	0	0	558	0	0	0	558
970+50	50	56.8	0.0	0.0	0.0	111	0	0	0	669	0	0	0	669
971+00	50	13.5	0.0	0.0	0.0	65	0	0	0	734	0	0	0	734
971+49	49	9.5	0.0	0.0	0.0	21	0	0	0	755	0	0	0	755
				Column totals		755	0	0	0					

Project ID: 2040-14-70
Division 2 - USH 45

STATION	Distance	Area (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
		Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut 1.00	Expanded Fill 1.20	Expanded EBS Backfill 1.00	Reduced EBS In Fill 0.80	
916+00	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
916+50	50	0.1	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
917+00	50	0.2	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
917+40	40	157.3	0.0	12.8	0.0	117	0	9	0	117	11	0	0	106
917+50	10	148.5	0.0	28.5	0.0	57	0	8	0	174	21	0	0	153
917+70	20	140.7	0.0	47.2	0.0	109	0	28	0	282	55	0	0	227
917+95	24	132.6	0.0	72.2	0.0	123	0	54	0	405	119	0	0	286
918+00	5	131.2	0.0	81.3	0.0	27	0	16	0	432	138	0	0	294
918+19	19	127.6	0.0	111.5	0.0	90	0	67	0	522	218	0	0	303
918+50	31	124.7	0.0	121.1	0.0	146	0	134	0	667	380	0	0	288
919+00	50	125.2	0.0	123.9	0.0	231	0	227	0	899	652	0	0	247
919+50	50	131.1	0.0	106.7	0.0	237	0	214	0	1,136	908	0	0	228
920+00	50	147.3	0.0	9.9	0.0	258	0	108	0	1,394	1,037	0	0	356
920+32	32	265.9	0.0	1.4	0.0	242	0	7	0	1,636	1,045	0	0	591
920+50	18	120.0	0.0	9.0	0.0	131	0	4	0	1,767	1,050	0	0	718
921+00	50	281.6	0.0	0.6	0.0	372	0	9	0	2,139	1,060	0	0	1,079
921+50	50	192.5	0.0	6.8	0.0	439	0	7	0	2,578	1,068	0	0	1,510
922+00	50	175.7	0.0	1.7	0.0	341	0	8	0	2,919	1,078	0	0	1,841
922+50	50	187.7	0.0	0.0	0.0	337	0	2	0	3,256	1,080	0	0	2,176
923+00	50	182.5	0.0	0.0	0.0	343	0	0	0	3,598	1,080	0	0	2,519
923+49	49	211.1	0.0	8.2	0.0	360	0	7	0	3,958	1,089	0	0	2,870
923+50	1	211.0	0.0	9.4	0.0	5	0	0	0	3,963	1,089	0	0	2,874
924+00	50	201.5	0.0	0.0	0.0	382	0	9	0	4,345	1,099	0	0	3,246
924+50	50	163.5	0.0	0.0	0.0	338	0	0	0	4,683	1,099	0	0	3,584
925+00	50	161.0	0.0	0.0	0.0	300	0	0	0	4,983	1,099	0	0	3,884
925+50	50	153.9	0.0	0.0	0.0	292	0	0	0	5,275	1,099	0	0	4,176
926+00	50	130.2	0.0	0.0	0.0	263	0	0	0	5,538	1,099	0	0	4,439
926+50	50	122.6	0.0	0.0	0.0	234	0	0	0	5,772	1,099	0	0	4,673
927+00	50	119.5	0.0	0.0	0.0	224	0	0	0	5,996	1,099	0	0	4,897
927+50	50	115.5	0.0	0.0	0.0	218	0	0	0	6,214	1,099	0	0	5,115
928+00	50	118.9	0.0	0.0	0.0	217	0	0	0	6,431	1,099	0	0	5,332
928+03	3	118.1	0.0	0.0	0.0	13	0	0	0	6,444	1,099	0	0	5,345
928+50	47	129.2	0.0	0.0	0.0	216	0	0	0	6,660	1,099	0	0	5,560
929+00	50	128.7	0.0	0.0	0.0	239	0	0	0	6,898	1,099	0	0	5,799
929+50	50	124.8	0.0	0.0	0.0	235	0	0	0	7,133	1,099	0	0	6,034
930+00	50	125.4	0.0	0.0	0.0	232	0	0	0	7,365	1,099	0	0	6,265
930+50	50	123.7	0.0	0.3	0.0	231	0	0	0	7,595	1,100	0	0	6,496
930+98	48	128.7	0.0	1.5	0.0	225	0	2	0	7,820	1,102	0	0	6,719
931+00	2	128.7	0.0	1.5	0.0	9	0	0	0	7,829	1,102	0	0	6,727
931+50	50	130.3	0.0	1.1	0.0	240	0	2	0	8,069	1,105	0	0	6,964
932+00	50	127.3	0.0	0.5	0.0	238	0	1	0	8,307	1,106	0	0	7,201
932+40	40	125.7	0.0	0.4	0.0	188	0	1	0	8,495	1,107	0	0	7,388
932+50	10	121.7	0.0	0.4	0.0	45	0	0	0	8,541	1,107	0	0	7,433
933+00	50	122.4	0.0	0.8	0.0	226	0	1	0	8,767	1,109	0	0	7,658
933+50	50	141.5	0.0	0.0	0.0	244	0	1	0	9,011	1,110	0	0	7,901
933+82	32	134.6	0.0	0.0	0.0	162	0	0	0	9,173	1,110	0	0	8,064
934+00	18	132.5	0.0	0.1	0.0	90	0	0	0	9,263	1,110	0	0	8,154
934+50	50	138.1	0.0	2.1	0.0	251	0	2	0	9,514	1,112	0	0	8,402
935+00	50	143.7	0.0	0.0	0.0	261	0	2	0	9,775	1,114	0	0	8,660
935+50	50	143.7	0.0	0.3	0.0	266	0	0	0	10,041	1,115	0	0	8,926
935+98	48	125.9	0.0	0.0	0.0	240	0	0	0	10,281	1,115	0	0	9,166

Project ID: 2040-14-70
Division 2 - USH 45

STATION	Distance	Area (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
		Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut 1.00	Expanded Fill 1.20	Expanded EBS Backfill 1.00	Reduced EBS In Fill 0.80	
936+00	2	124.9	0.0	0.0	0.0	9	0	0	0	10,290	1,115	0	0	9,175
936+50	50	111.3	0.0	0.3	0.0	219	0	0	0	10,509	1,116	0	0	9,393
936+66	16	108.3	0.0	0.7	0.0	67	0	0	0	10,576	1,116	0	0	9,460
937+00	34	105.2	0.0	0.6	0.0	133	0	1	0	10,708	1,117	0	0	9,591
937+50	50	102.5	0.0	0.8	0.0	192	0	1	0	10,901	1,118	0	0	9,782
937+72	22	107.5	0.0	0.3	0.0	84	0	0	0	10,985	1,119	0	0	9,866
938+00	28	119.1	0.0	0.0	0.0	119	0	0	0	11,104	1,119	0	0	9,985
938+50	50	127.4	0.0	0.0	0.0	228	0	0	0	11,332	1,119	0	0	10,213
939+00	50	137.3	0.0	1.8	0.0	245	0	2	0	11,577	1,121	0	0	10,456
939+50	50	141.0	0.0	0.2	0.0	258	0	2	0	11,835	1,123	0	0	10,711
940+00	50	191.3	0.0	0.0	0.0	308	0	0	0	12,142	1,124	0	0	11,019
940+22	22	204.8	0.0	0.0	0.0	160	0	0	0	12,302	1,124	0	0	11,179
940+26	4	204.7	0.0	0.0	0.0	31	0	0	0	12,333	1,124	0	0	11,209
940+50	24	159.2	0.0	0.4	0.0	163	0	0	0	12,496	1,124	0	0	11,372
941+00	50	168.2	0.0	0.0	0.0	303	0	0	0	12,799	1,124	0	0	11,675
941+50	50	164.1	0.0	0.0	0.0	308	0	0	0	13,106	1,124	0	0	11,982
942+00	50	147.4	0.0	0.0	0.0	288	0	0	0	13,395	1,124	0	0	12,271
942+50	50	127.5	0.0	0.0	0.0	254	0	0	0	13,649	1,124	0	0	12,525
943+00	50	120.8	0.0	0.3	0.0	230	0	0	0	13,879	1,125	0	0	12,755
943+50	50	139.5	0.0	1.3	0.0	241	0	1	0	14,120	1,126	0	0	12,994
944+00	50	164.6	0.0	1.9	0.0	282	0	3	0	14,402	1,130	0	0	13,272
944+50	50	172.1	0.0	1.2	0.0	312	0	3	0	14,713	1,133	0	0	13,580
945+00	50	165.7	0.0	0.7	0.0	313	0	2	0	15,026	1,135	0	0	13,891
945+50	50	138.7	0.0	0.2	0.0	282	0	1	0	15,308	1,136	0	0	14,172
945+85	35	160.5	0.0	0.0	0.0	195	0	0	0	15,503	1,137	0	0	14,366
945+97	11	156.8	0.0	0.0	0.0	68	0	0	0	15,571	1,137	0	0	14,434
946+00	3	155.1	0.0	0.0	0.0	19	0	0	0	15,590	1,137	0	0	14,453
946+50	50	154.3	0.0	0.0	0.0	286	0	0	0	15,876	1,137	0	0	14,740
947+00	50	162.9	0.0	0.0	0.0	294	0	0	0	16,170	1,137	0	0	15,033
947+50	50	176.6	0.0	0.0	0.0	314	0	0	0	16,484	1,137	0	0	15,348
948+00	50	168.4	0.0	0.1	0.0	319	0	0	0	16,804	1,137	0	0	15,667
948+50	50	159.7	0.0	0.0	0.0	304	0	0	0	17,108	1,137	0	0	15,971
949+00	50	154.5	0.0	0.0	0.0	291	0	0	0	17,399	1,137	0	0	16,262
949+50	50	157.2	0.0	0.0	0.0	289	0	0	0	17,687	1,137	0	0	16,550
950+00	50	159.2	0.0	0.4	0.0	293	0	0	0	17,980	1,137	0	0	16,843
950+50	50	167.3	0.0	0.6	0.0	302	0	1	0	18,282	1,138	0	0	17,144
951+00	50	161.5	0.0	0.3	0.0	304	0	1	0	18,587	1,139	0	0	17,448
951+50	50	172.9	0.0	0.9	0.0	310	0	1	0	18,896	1,141	0	0	17,756
952+00	50	258.6	0.0	0.0	0.0	399	0	1	0	19,296	1,142	0	0	18,154
952+05	5	255.2	0.0	0.0	0.0	50	0	0	0	19,346	1,142	0	0	18,204
952+50	45	278.1	0.0	0.0	0.0	442	0	0	0	19,788	1,142	0	0	18,646
953+00	50	161.9	0.0	3.8	0.0	407	0	4	0	20,195	1,146	0	0	19,049
953+50	50	126.8	0.0	5.1	0.0	267	0	8	0	20,462	1,156	0	0	19,307
954+00	50	102.7	0.0	6.2	0.0	213	0	10	0	20,675	1,168	0	0	19,507
954+50	50	92.4	0.0	7.2	0.0	181	0	12	0	20,856	1,183	0	0	19,672
955+00	50	95.5	0.0	6.1	0.0	174	0	12	0	21,030	1,198	0	0	19,831
955+50	50	95.3	0.0	5.3	0.0	177	0	11	0	21,206	1,211	0	0	19,996
956+00	50	83.4	0.0	6.9	0.0	165	0	11	0	21,372	1,224	0	0	20,148
956+50	50	73.4	0.0	11.1	0.0	145	0	17	0	21,517	1,244	0	0	20,273
957+00	50	77.6	0.0	3.9	0.0	140	0	14	0	21,657	1,261	0	0	20,396
957+50	50	70.0	0.0	11.6	0.0	137	0	14	0	21,793	1,278	0	0	20,516

Project ID: 2040-14-70
Division 2 - USH 45

STATION	Distance	Area (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
		Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut 1.00	Expanded Fill 1.20	Expanded EBS Backfill 1.00	Reduced EBS In Fill 0.80	
958+00	50	64.8	0.0	8.2	0.0	125	0	18	0	21,918	1,300	0	0	20,618
958+50	50	56.3	0.0	9.5	0.0	112	0	16	0	22,030	1,319	0	0	20,711
959+00	50	47.9	0.0	18.8	0.0	97	0	26	0	22,127	1,351	0	0	20,776
959+50	50	45.8	0.0	23.1	0.0	87	0	39	0	22,214	1,397	0	0	20,816
960+00	50	64.9	0.0	16.6	0.0	102	0	37	0	22,316	1,441	0	0	20,875
960+50	50	79.0	0.0	7.8	0.0	133	0	23	0	22,449	1,468	0	0	20,981
961+00	50	82.0	0.0	3.8	0.0	149	0	11	0	22,599	1,481	0	0	21,117
961+50	50	95.0	0.0	0.9	0.0	164	0	4	0	22,762	1,487	0	0	21,276
962+00	50	98.2	0.0	0.6	0.0	179	0	1	0	22,941	1,488	0	0	21,453
962+50	50	87.5	0.0	0.2	0.0	172	0	1	0	23,113	1,489	0	0	21,624
962+83	33	115.6	0.0	0.0	0.0	123	0	0	0	23,236	1,489	0	0	21,747
963+00	17	147.4	0.0	0.0	0.0	84	0	0	0	23,320	1,489	0	0	21,831
963+04	4	154.1	0.0	0.0	0.0	25	0	0	0	23,345	1,489	0	0	21,856
963+50	46	105.2	0.0	0.1	0.0	219	0	0	0	23,564	1,490	0	0	22,074
964+00	50	105.2	0.0	0.0	0.0	195	0	0	0	23,759	1,490	0	0	22,269
964+50	50	104.5	0.0	0.1	0.0	194	0	0	0	23,953	1,490	0	0	22,463
965+00	50	116.2	0.0	1.1	0.0	204	0	1	0	24,157	1,491	0	0	22,666
965+50	50	120.6	0.0	1.4	0.0	219	0	2	0	24,377	1,494	0	0	22,883
966+00	50	112.3	0.0	3.1	0.0	216	0	4	0	24,592	1,499	0	0	23,093
966+50	50	113.2	0.0	1.3	0.0	209	0	4	0	24,801	1,504	0	0	23,297
966+95	45	125.6	0.0	0.0	0.0	201	0	1	0	25,002	1,505	0	0	23,497
967+00	5	126.6	0.0	0.0	0.0	21	0	0	0	25,023	1,505	0	0	23,518
967+50	50	151.3	0.0	0.0	0.0	257	0	0	0	25,280	1,505	0	0	23,775
968+00	50	177.3	0.0	0.0	0.0	304	0	0	0	25,585	1,505	0	0	24,080
968+37	37	197.9	0.0	0.0	0.0	254	0	0	0	25,839	1,505	0	0	24,333
968+50	13	194.7	0.0	0.2	0.0	98	0	0	0	25,936	1,505	0	0	24,431
968+80	30	188.5	0.0	0.0	0.0	213	0	0	0	26,149	1,505	0	0	24,644
					Column totals	26,149	0	1,254	0					

Project ID: 2040-14-70
Division 2 - Rawson NW Ramp

STATION	Distance	Area (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
		Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut 1.00	Expanded Fill 1.20	Expanded EBS Backfill 1.00	Reduced EBS In Fill 0.80	
247+19	0	114.4	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
247+50	31	114.4	0.0	0.5	0.0	131	0	0	0	131	0	0	0	131
248+00	50	121.0	0.0	12.5	0.0	218	0	12	0	349	15	0	0	334
248+50	50	152.8	0.0	14.8	0.0	253	0	25	0	603	45	0	0	557
249+00	50	272.3	0.0	11.2	0.0	394	0	24	0	996	74	0	0	922
					Column totals	996	0	62	0					

Project ID: 2040-14-70
Division 2 - Frontage Road West

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
325+75	0	91.5	0.0	1.6	0.0	0	0	0	0	0	0	0	0	0
326+00	25	41.7	0.0	3.2	0.0	62	0	2	0	62	3	0	0	59
326+07	7	42.6	0.0	3.5	0.0	12	0	1	0	73	4	0	0	69
326+50	43	43.8	0.0	7.9	0.0	68	0	9	0	141	15	0	0	127
327+00	50	52.5	0.0	7.6	0.0	89	0	14	0	230	32	0	0	199
327+50	50	66.7	0.0	1.3	0.0	110	0	8	0	341	42	0	0	299
328+00	50	73.3	0.0	0.4	0.0	130	0	2	0	470	44	0	0	427
328+50	50	66.0	0.0	1.6	0.0	129	0	2	0	599	46	0	0	554
328+69	19	60.0	0.0	7.7	0.0	45	0	3	0	645	50	0	0	595
329+00	31	64.2	0.0	1.9	0.0	70	0	5	0	715	56	0	0	659
329+50	50	63.9	0.0	2.4	0.0	119	0	4	0	834	61	0	0	773
330+00	50	57.0	0.0	4.1	0.0	112	0	6	0	946	68	0	0	877
330+01	1	57.4	0.0	3.5	0.0	2	0	0	0	948	69	0	0	879
					Column totals	948	0	57	0					

Project ID: 2040-14-70
Division 2 - Cortez Road

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
447+99	0	89.7	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
448+00	1	92.0	0.0	0.0	0.0	5	0	0	0	5	0	0	0	5
448+37	37	114.0	0.0	0.0	0.0	142	0	0	0	146	0	0	0	146
448+50	13	117.9	0.0	0.4	0.0	55	0	0	0	202	0	0	0	202
448+77	27	140.4	0.0	0.0	0.0	128	0	0	0	329	0	0	0	329
449+00	23	120.0	0.0	0.0	0.0	112	0	0	0	442	0	0	0	441
449+14	14	127.4	0.0	0.0	0.0	64	0	0	0	505	0	0	0	505
					Column totals	505	0	0	0					

Project ID: 2040-14-70
Division 2 - Prairiewood Lane

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
498+80	0	124.3	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
499+00	20	128.1	0.0	0.0	0.0	93	0	0	0	93	0	0	0	93
499+21	21	123.8	0.0	0.8	0.0	96	0	0	0	189	0	0	0	188
					Column totals	189	0	0	0					

Project ID: 2040-14-70
Division 2 - Speedway Drive

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
548+44	0	156.4	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
548+50	6	162.8	0.0	0.2	0.0	37	0	0	0	37	0	0	0	37
548+87	37	211.3	0.0	0.7	0.0	257	0	1	0	294	1	0	0	293
					Column totals	294	0	1	0					

Project ID: 2040-14-70
Division 3 - USH 45

STATION	Distance	Area (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
		Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut 1.00	Expanded Fill 1.20	Expanded EBS Backfill 1.00	Reduced EBS In Fill 0.80	
916+00	0	190.0	0.0	0.5	0.0	0	0	0	0	0	0	0	0	0
916+50	50	168.4	0.0	11.6	0.0	332	0	11	0	332	14	0	0	318
917+00	50	160.6	0.0	19.1	0.0	305	0	28	0	636	48	0	0	589
917+40	40	155.6	0.0	17.5	0.0	234	0	27	0	871	80	0	0	790
917+50	10	154.7	0.0	17.2	0.0	57	0	6	0	928	88	0	0	840
917+70	20	152.6	0.0	17.7	0.0	115	0	13	0	1,043	104	0	0	940
917+95	24	148.1	0.0	16.6	0.0	135	0	15	0	1,179	122	0	0	1,056
918+00	5	147.2	0.0	15.1	0.0	30	0	3	0	1,208	126	0	0	1,082
918+19	19	145.9	0.0	15.8	0.0	102	0	11	0	1,310	139	0	0	1,171
918+50	31	111.4	0.0	23.5	0.0	149	0	23	0	1,459	166	0	0	1,293
919+00	50	111.1	0.0	36.1	0.0	206	0	55	0	1,665	232	0	0	1,433
919+50	50	118.4	0.0	54.5	0.0	212	0	84	0	1,878	333	0	0	1,545
920+00	50	127.5	0.0	68.6	0.0	228	0	114	0	2,105	470	0	0	1,635
920+32	32	116.5	0.0	75.0	0.0	143	0	84	0	2,248	571	0	0	1,677
920+50	18	160.0	0.0	91.8	0.0	94	0	57	0	2,342	639	0	0	1,703
921+00	50	176.4	0.0	92.7	0.0	312	0	171	0	2,654	844	0	0	1,810
921+50	50	165.0	0.0	67.2	0.0	316	0	148	0	2,970	1,021	0	0	1,948
922+00	50	171.0	0.0	29.1	0.0	311	0	89	0	3,281	1,128	0	0	2,153
922+50	50	184.7	0.0	40.0	0.0	329	0	64	0	3,610	1,205	0	0	2,405
923+00	50	169.2	0.0	23.2	0.0	328	0	59	0	3,938	1,275	0	0	2,663
923+49	49	270.1	0.0	0.0	0.0	402	0	21	0	4,340	1,301	0	0	3,039
923+50	1	270.0	0.0	0.0	0.0	6	0	0	0	4,346	1,301	0	0	3,045
924+00	50	158.2	0.0	0.0	0.0	397	0	0	0	4,742	1,301	0	0	3,442
924+50	50	133.5	0.0	0.0	0.0	270	0	0	0	5,013	1,301	0	0	3,712
925+00	50	140.0	0.0	0.0	0.0	253	0	0	0	5,266	1,301	0	0	3,965
925+50	50	149.6	0.0	0.1	0.0	268	0	0	0	5,534	1,301	0	0	4,233
926+00	50	143.9	0.0	0.0	0.0	272	0	0	0	5,806	1,301	0	0	4,505
926+50	50	140.5	0.0	0.6	0.0	263	0	1	0	6,069	1,302	0	0	4,767
927+00	50	123.1	0.0	1.2	0.0	244	0	2	0	6,313	1,304	0	0	5,009
927+50	50	113.1	0.0	2.4	0.0	219	0	3	0	6,532	1,308	0	0	5,224
928+00	50	97.9	0.0	1.9	0.0	195	0	4	0	6,727	1,313	0	0	5,415
928+03	3	97.2	0.0	1.9	0.0	11	0	0	0	6,738	1,313	0	0	5,425
928+50	47	105.9	0.0	1.6	0.0	177	0	3	0	6,915	1,316	0	0	5,598
929+00	50	108.4	0.0	1.2	0.0	198	0	3	0	7,113	1,320	0	0	5,794
929+50	50	105.0	0.0	2.0	0.0	198	0	3	0	7,311	1,323	0	0	5,988
930+00	50	102.4	0.0	1.8	0.0	192	0	3	0	7,503	1,327	0	0	6,176
930+50	50	117.5	0.0	0.8	0.0	204	0	2	0	7,707	1,330	0	0	6,376
930+98	48	120.8	0.0	0.0	0.0	213	0	1	0	7,919	1,331	0	0	6,588
931+00	2	121.1	0.0	0.0	0.0	8	0	0	0	7,927	1,331	0	0	6,596
931+50	50	133.3	0.0	0.0	0.0	236	0	0	0	8,163	1,331	0	0	6,832
932+00	50	137.2	0.0	0.0	0.0	251	0	0	0	8,413	1,331	0	0	7,082
932+40	40	131.0	0.0	0.0	0.0	199	0	0	0	8,613	1,331	0	0	7,282
932+50	10	139.1	0.0	0.0	0.0	49	0	0	0	8,662	1,331	0	0	7,331
933+00	50	137.0	0.0	0.0	0.0	256	0	0	0	8,918	1,331	0	0	7,587
933+50	50	112.3	0.0	0.0	0.0	231	0	0	0	9,149	1,331	0	0	7,818
933+82	32	211.0	0.0	0.0	0.0	190	0	0	0	9,339	1,331	0	0	8,008
934+00	18	143.3	0.0	0.0	0.0	120	0	0	0	9,458	1,331	0	0	8,127
934+50	50	106.1	0.0	0.0	0.0	231	0	0	0	9,689	1,331	0	0	8,358
935+00	50	112.1	0.0	0.0	0.0	202	0	0	0	9,891	1,331	0	0	8,560
935+50	50	113.8	0.0	0.0	0.0	209	0	0	0	10,100	1,331	0	0	8,769
935+98	48	104.8	0.0	0.0	0.0	194	0	0	0	10,295	1,331	0	0	8,964

Project ID: 2040-14-70
Division 3 - USH 45

		Area (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut 1.00	Expanded Fill 1.20	Expanded EBS Backfill 1.00	Reduced EBS In Fill 0.80	Mass Ordinate
936+00	2	105.4	0.0	0.0	0.0	8	0	0	0	10,303	1,331	0	0	8,971
936+50	50	113.9	0.0	0.0	0.0	203	0	0	0	10,506	1,331	0	0	9,175
936+66	16	103.9	0.0	0.0	0.0	66	0	0	0	10,572	1,331	0	0	9,241
937+00	34	113.2	0.0	0.2	0.0	135	0	0	0	10,707	1,331	0	0	9,376
937+50	50	116.7	0.0	0.0	0.0	213	0	0	0	10,920	1,331	0	0	9,588
937+72	22	105.2	0.0	0.0	0.0	89	0	0	0	11,009	1,331	0	0	9,677
938+00	28	117.3	0.0	0.0	0.0	117	0	0	0	11,125	1,331	0	0	9,794
938+50	50	140.9	0.0	0.0	0.0	239	0	0	0	11,364	1,331	0	0	10,033
939+00	50	138.8	0.0	0.0	0.0	259	0	0	0	11,623	1,331	0	0	10,292
939+50	50	123.0	0.0	0.6	0.0	242	0	1	0	11,866	1,332	0	0	10,534
940+00	50	111.2	0.0	5.6	0.0	217	0	6	0	12,083	1,339	0	0	10,744
940+22	22	139.6	0.0	0.0	0.0	101	0	2	0	12,184	1,342	0	0	10,842
940+26	4	140.1	0.0	0.0	0.0	21	0	0	0	12,205	1,342	0	0	10,863
940+50	24	124.7	0.0	5.3	0.0	118	0	2	0	12,323	1,344	0	0	10,979
941+00	50	77.4	0.0	2.5	0.0	187	0	7	0	12,510	1,353	0	0	11,157
941+50	50	83.3	0.0	2.2	0.0	149	0	4	0	12,659	1,358	0	0	11,301
942+00	50	91.0	0.0	0.8	0.0	161	0	3	0	12,820	1,362	0	0	11,459
942+50	50	116.0	0.0	0.0	0.0	192	0	1	0	13,012	1,362	0	0	11,650
943+00	50	141.8	0.0	0.0	0.0	239	0	0	0	13,251	1,362	0	0	11,888
943+50	50	155.0	0.0	0.0	0.0	275	0	0	0	13,526	1,362	0	0	12,163
944+00	50	170.5	0.0	0.0	0.0	301	0	0	0	13,827	1,362	0	0	12,465
944+50	50	183.4	0.0	0.0	0.0	328	0	0	0	14,155	1,362	0	0	12,792
945+00	50	172.2	0.0	0.0	0.0	329	0	0	0	14,484	1,362	0	0	13,122
945+50	50	185.5	0.0	0.0	0.0	331	0	0	0	14,815	1,362	0	0	13,453
945+85	35	257.1	0.0	0.0	0.0	289	0	0	0	15,104	1,362	0	0	13,741
945+97	11	253.7	0.0	0.0	0.0	109	0	0	0	15,212	1,362	0	0	13,850
946+00	3	236.9	0.0	1.8	0.0	30	0	0	0	15,243	1,363	0	0	13,880
946+50	50	140.9	0.0	0.0	0.0	350	0	2	0	15,592	1,365	0	0	14,228
947+00	50	128.6	0.0	0.0	0.0	250	0	0	0	15,842	1,365	0	0	14,477
947+50	50	123.2	0.0	0.1	0.0	233	0	0	0	16,075	1,365	0	0	14,710
948+00	50	142.3	0.0	0.0	0.0	246	0	0	0	16,321	1,365	0	0	14,956
948+50	50	147.6	0.0	0.0	0.0	268	0	0	0	16,589	1,365	0	0	15,225
949+00	50	167.8	0.0	0.0	0.0	292	0	0	0	16,881	1,365	0	0	15,517
949+50	50	174.0	0.0	0.0	0.0	316	0	0	0	17,198	1,365	0	0	15,833
950+00	50	190.5	0.0	0.0	0.0	337	0	0	0	17,535	1,365	0	0	16,171
950+50	50	207.7	0.0	0.0	0.0	369	0	0	0	17,904	1,365	0	0	16,539
951+00	50	212.4	0.0	0.0	0.0	389	0	0	0	18,293	1,365	0	0	16,928
951+50	50	270.9	0.0	0.0	0.0	447	0	0	0	18,740	1,365	0	0	17,376
952+00	50	203.5	0.0	0.0	0.0	439	0	0	0	19,180	1,365	0	0	17,815
952+05	5	194.8	0.0	0.0	0.0	39	0	0	0	19,218	1,365	0	0	17,854
952+50	45	156.1	0.0	0.0	0.0	291	0	0	0	19,509	1,365	0	0	18,144
953+00	50	168.9	0.0	0.0	0.0	301	0	0	0	19,810	1,365	0	0	18,445
953+50	50	147.9	0.0	0.0	0.0	293	0	0	0	20,103	1,365	0	0	18,739
954+00	50	118.3	0.0	0.0	0.0	246	0	0	0	20,350	1,365	0	0	18,985
954+50	50	105.6	0.0	0.0	0.0	207	0	0	0	20,557	1,365	0	0	19,192
955+00	50	94.5	0.0	0.9	0.0	185	0	1	0	20,743	1,366	0	0	19,377
955+50	50	82.3	0.0	1.9	0.0	164	0	3	0	20,906	1,369	0	0	19,537
956+00	50	88.1	0.0	2.5	0.0	158	0	4	0	21,064	1,374	0	0	19,690
956+50	50	72.6	0.0	6.7	0.0	149	0	8	0	21,213	1,384	0	0	19,829
957+00	50	62.4	0.0	11.1	0.0	125	0	16	0	21,338	1,403	0	0	19,934
957+50	50	67.0	0.0	9.5	0.0	120	0	19	0	21,458	1,426	0	0	20,031

Project ID: 2040-14-70
Division 3 - USH 45

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
958+00	50	66.1	0.0	8.6	0.0	123	0	17	0	21,581	1,446	0	0	20,134
958+50	50	58.3	0.0	12.8	0.0	115	0	20	0	21,696	1,470	0	0	20,226
959+00	50	44.6	0.0	24.7	0.0	95	0	35	0	21,791	1,512	0	0	20,279
959+50	50	28.6	0.0	18.0	0.0	68	0	40	0	21,859	1,559	0	0	20,300
960+00	50	55.5	0.0	5.2	0.0	78	0	21	0	21,937	1,585	0	0	20,352
960+50	50	61.1	0.0	3.5	0.0	108	0	8	0	22,045	1,595	0	0	20,450
961+00	50	49.3	0.0	4.1	0.0	102	0	7	0	22,147	1,603	0	0	20,544
961+50	50	58.0	0.0	5.0	0.0	99	0	8	0	22,247	1,613	0	0	20,633
962+00	50	65.2	0.0	3.8	0.0	114	0	8	0	22,361	1,623	0	0	20,738
962+50	50	68.7	0.0	14.8	0.0	124	0	17	0	22,485	1,644	0	0	20,841
962+83	33	101.2	0.0	0.0	0.0	103	0	9	0	22,588	1,654	0	0	20,933
963+00	17	104.7	0.0	3.9	0.0	66	0	1	0	22,653	1,656	0	0	20,998
963+04	4	68.8	0.0	15.8	0.0	14	0	2	0	22,668	1,658	0	0	21,010
963+50	46	93.5	0.0	3.5	0.0	137	0	16	0	22,805	1,677	0	0	21,127
964+00	50	113.2	0.0	0.5	0.0	191	0	4	0	22,996	1,682	0	0	21,314
964+50	50	126.6	0.0	0.2	0.0	222	0	1	0	23,218	1,683	0	0	21,536
965+00	50	127.9	0.0	1.2	0.0	236	0	1	0	23,454	1,684	0	0	21,770
965+50	50	114.6	0.0	4.0	0.0	225	0	5	0	23,678	1,690	0	0	21,989
966+00	50	113.3	0.0	6.2	0.0	211	0	9	0	23,889	1,701	0	0	22,188
966+50	50	130.8	0.0	0.7	0.0	226	0	6	0	24,115	1,709	0	0	22,407
966+95	45	189.1	0.0	0.0	0.0	269	0	1	0	24,385	1,709	0	0	22,675
967+00	5	190.0	0.0	0.0	0.0	32	0	0	0	24,417	1,709	0	0	22,707
967+50	50	152.7	0.0	0.0	0.0	317	0	0	0	24,734	1,709	0	0	23,024
968+00	50	145.7	0.0	1.3	0.0	276	0	1	0	25,010	1,711	0	0	23,299
968+37	37	128.3	0.0	0.1	0.0	185	0	1	0	25,195	1,712	0	0	23,483
968+50	13	127.0	0.0	0.1	0.0	64	0	0	0	25,259	1,712	0	0	23,547
968+80	30	152.7	0.0	0.9	0.0	155	0	1	0	25,414	1,713	0	0	23,702
					Column totals	25,414	0	1,427	0					

Project ID: 2040-14-70
Division 3 - Frontage Road East

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
350+20	0	68.8	0.0	8.6	0.0	0	0	0	0	0	0	0	0	0
350+50	30	45.7	0.0	1.0	0.0	64	0	5	0	64	6	0	0	58
351+00	50	28.4	0.0	3.8	0.0	69	0	4	0	133	12	0	0	121
351+36	36	37.6	0.0	0.0	0.0	44	0	3	0	176	15	0	0	161
351+50	14	22.4	0.0	12.2	0.0	16	0	3	0	192	19	0	0	173
352+00	50	44.4	0.0	1.4	0.0	62	0	13	0	254	34	0	0	220
352+08	8	43.4	0.0	1.8	0.0	14	0	0	0	267	34	0	0	233
352+50	42	28.5	0.0	5.9	0.0	55	0	6	0	323	41	0	0	281
353+00	50	43.5	0.0	2.2	0.0	67	0	8	0	389	50	0	0	339
353+50	50	31.2	0.0	1.7	0.0	69	0	4	0	459	55	0	0	404
353+85	35	38.9	0.0	0.0	0.0	46	0	1	0	504	56	0	0	448
354+00	15	24.6	0.0	6.5	0.0	17	0	2	0	522	58	0	0	463
354+50	50	19.1	0.0	3.2	0.0	40	0	9	0	562	69	0	0	493
354+92	42	31.4	0.0	1.8	0.0	39	0	4	0	602	74	0	0	528
355+00	8	27.3	0.0	2.0	0.0	9	0	1	0	610	74	0	0	536
355+39	39	32.1	0.0	2.6	0.0	43	0	3	0	653	78	0	0	574
355+50	11	31.8	0.0	2.6	0.0	13	0	1	0	666	80	0	0	586
356+00	50	20.5	0.0	10.9	0.0	48	0	13	0	714	95	0	0	620
356+50	50	24.1	0.0	3.3	0.0	41	0	13	0	756	111	0	0	645
357+00	50	28.9	0.0	4.1	0.0	49	0	7	0	805	119	0	0	686
357+23	23	29.0	0.0	3.9	0.0	25	0	3	0	830	123	0	0	707
357+50	27	31.1	0.0	4.6	0.0	30	0	4	0	860	128	0	0	732
357+71	21	30.9	0.0	3.5	0.0	24	0	3	0	884	132	0	0	752
358+00	29	37.4	0.0	1.5	0.0	36	0	3	0	920	135	0	0	785
358+50	50	41.4	0.0	1.1	0.0	73	0	2	0	993	138	0	0	855
358+62	12	46.6	0.0	0.1	0.0	20	0	0	0	1,013	138	0	0	874
359+00	38	44.8	0.0	1.0	0.0	64	0	1	0	1,077	139	0	0	938
359+50	50	36.7	0.0	2.1	0.0	75	0	3	0	1,152	143	0	0	1,010
360+00	50	61.5	0.0	1.7	0.0	91	0	4	0	1,243	147	0	0	1,096
				Column totals		1,243	0	122	0					

Project ID: 2040-14-70
Division 3 - Phyllis Lane

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
301+00	0	108.1	0.0	7.9	0.0	0	0	0	0	0	0	0	0	0
301+18	18	112.8	0.0	2.2	0.0	75	0	3	0	75	4	0	0	71
301+35	17	60.7	0.0	0.0	0.0	54	0	1	0	128	5	0	0	124
				Column totals		128	0	4	0					

Project ID: 2040-14-70
Division 3 - Herda Place

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
401+00	0	95.9	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
401+14	14	76.7	0.0	0.0	0.0	45	0	0	0	45	0	0	0	45
					Column totals	45	0	0	0					

Project ID: 2040-14-70
Division 3 - Cortez Circle (S)

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
450+85	0	117.2	0.0	3.8	0.0	0	0	0	0	0	0	0	0	0
451+00	15	117.4	0.0	2.8	0.0	63	0	2	0	63	2	0	0	61
451+50	50	158.8	0.0	0.1	0.0	256	0	3	0	319	5	0	0	314
451+66	16	165.1	0.0	0.1	0.0	98	0	0	0	417	5	0	0	411
452+00	34	119.8	0.0	2.3	0.0	178	0	1	0	594	7	0	0	587
452+19	19	122.7	0.0	2.0	0.0	85	0	2	0	680	9	0	0	671
					Column totals	680	0	7	0					

Project ID: 2040-14-70
Division 3 - Cortez Circle (N)

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
500+93	0	163.9	0.0	5.3	0.0	0	0	0	0	0	0	0	0	0
501+00	7	151.7	0.0	6.4	0.0	42	0	2	0	42	2	0	0	40
501+25	25	120.1	0.0	2.2	0.0	127	0	4	0	169	7	0	0	162
					Column totals	169	0	6	0					

Project ID: 2040-14-70
Division 3 - Speedway Drive

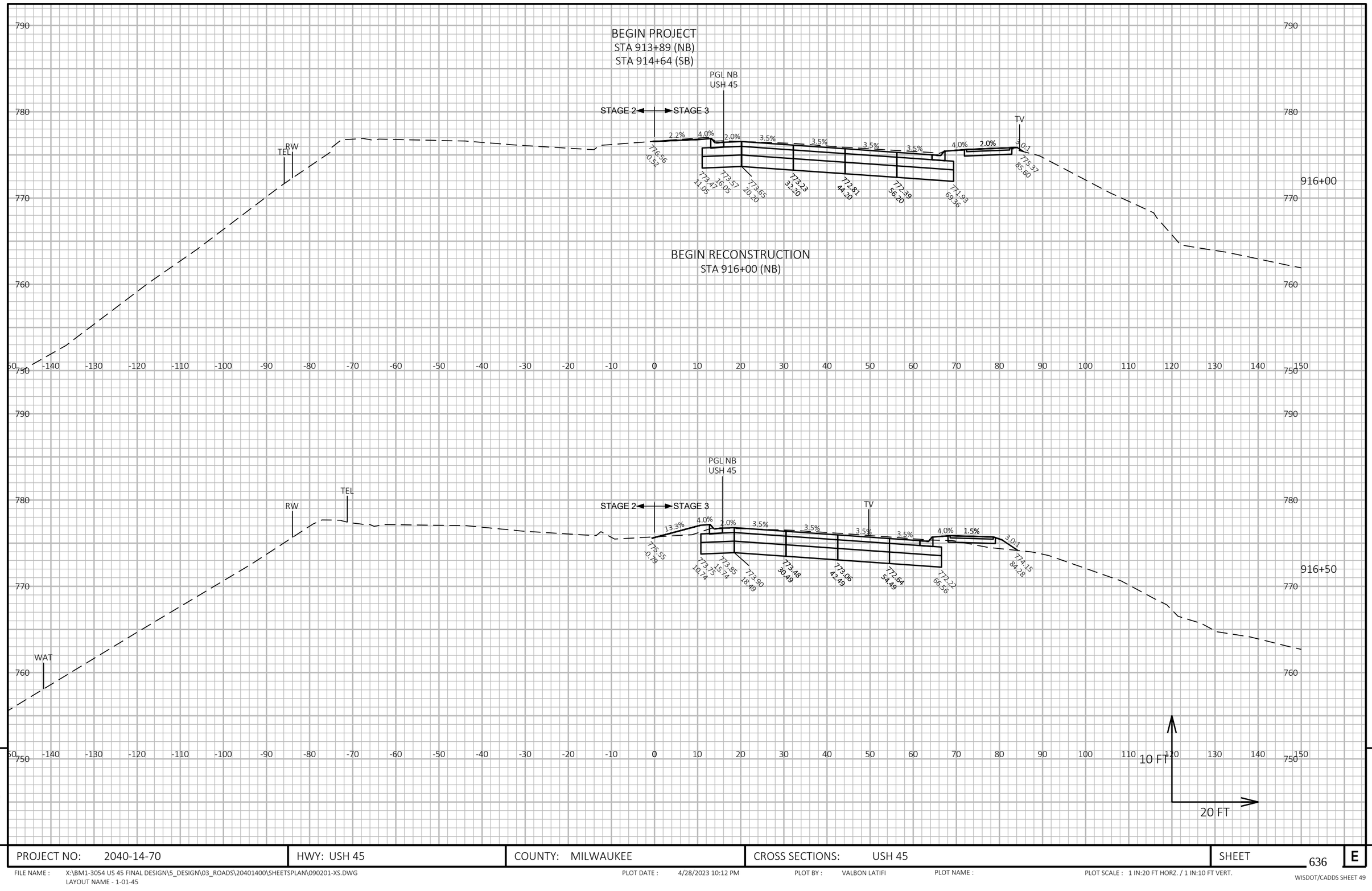
STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
551+00	0	69.2	0.0	1.2	0.0	0	0	0	0	0	0	0	0	0
551+50	50	30.2	0.0	0.0	0.0	92	0	1	0	92	1	0	0	91
551+71	21	20.7	0.0	0.0	0.0	19	0	0	0	111	1	0	0	110
				Column totals		111	0	1	0					

Project ID: 2040-14-70
Division 3 - Whitnall Edge Road

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
600+89	0	80.7	0.0	8.3	0.0	0	0	0	0	0	0	0	0	0
601+00	11	84.7	0.0	6.4	0.0	33	0	3	0	33	4	0	0	29
601+50	50	133.9	0.0	0.0	0.0	202	0	6	0	235	11	0	0	225
602+00	50	143.0	0.0	0.0	0.0	256	0	0	0	492	11	0	0	481
				Column totals		492	0	9	0					

Project ID: 2040-14-70
Division 3 - Venture Drive

STATION	Distance	Area (SF) Cut	Area (SF) Salvaged/ Unusable Pavement Material	Area (SF) Fill	Area (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.00	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
650+81	0	167.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
651+00	19	141.4	0.0	0.4	0.0	111	0	0	0	111	0	0	0	110
651+15	15	121.7	0.0	1.5	0.0	73	0	1	0	184	1	0	0	183
				Column totals		184	0	1	0					

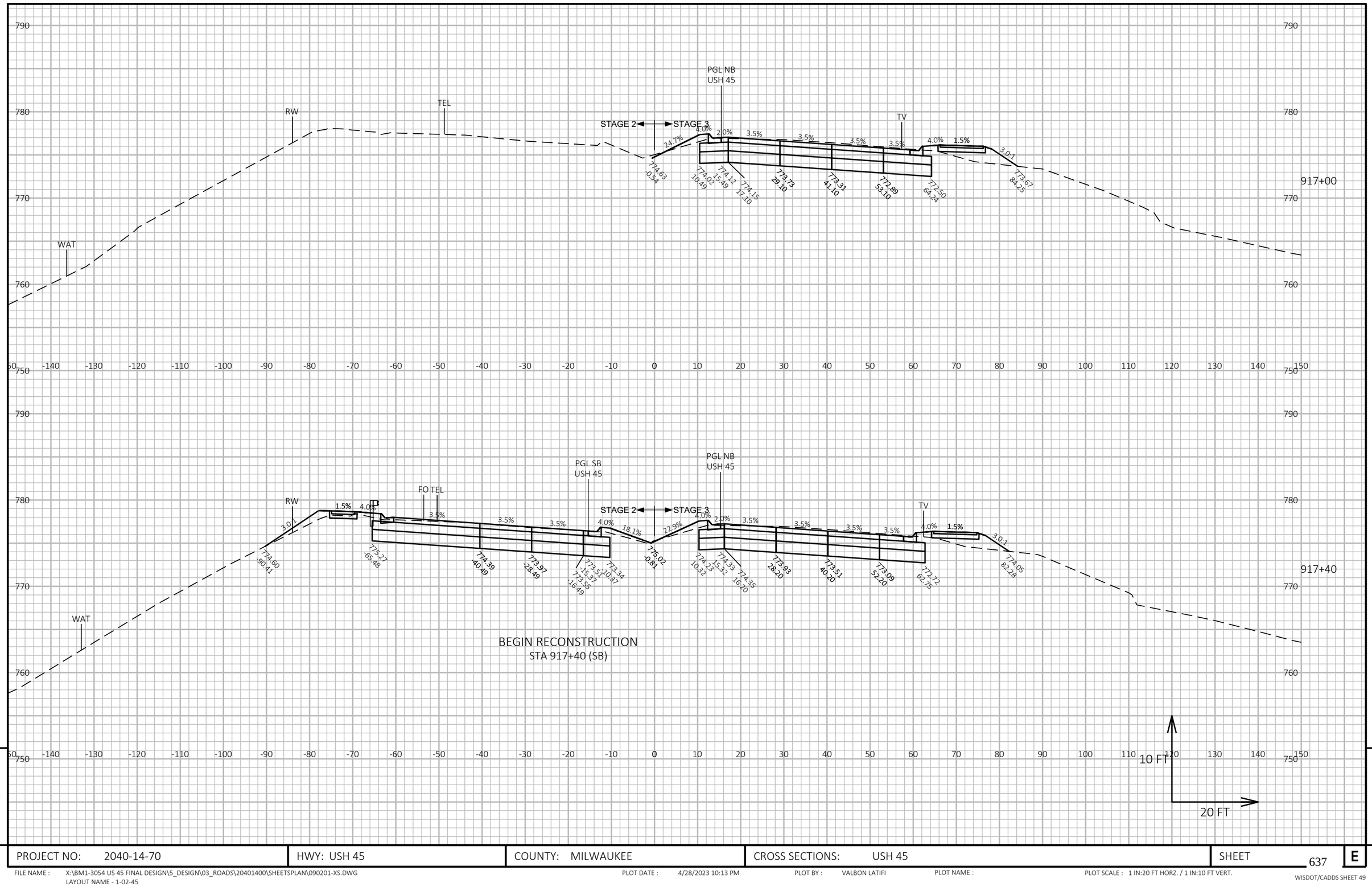


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 636	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-01-45

PLOT DATE : 4/28/2023 10:12 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

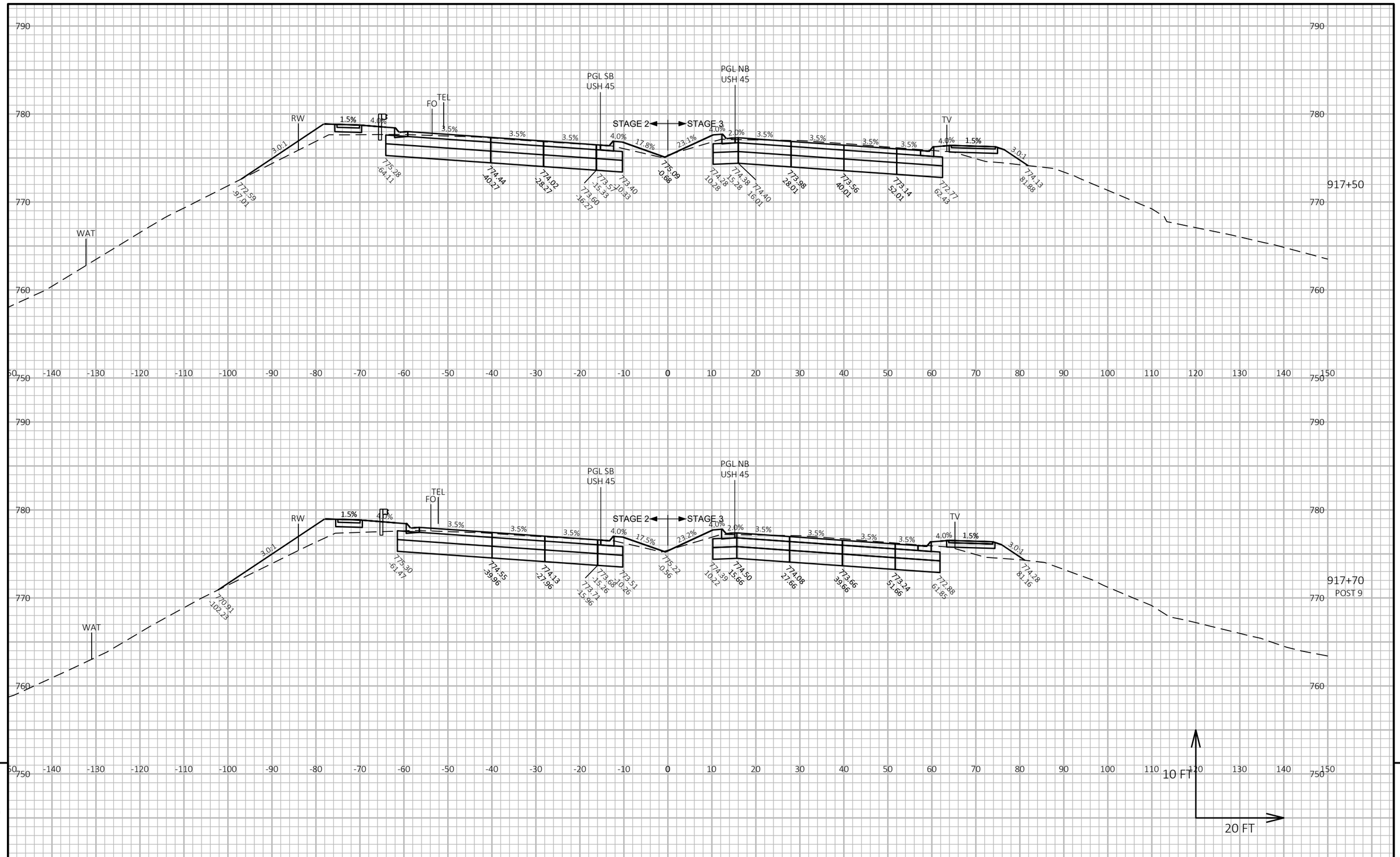


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 637	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-02-45

PLOT DATE : 4/28/2023 10:13 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

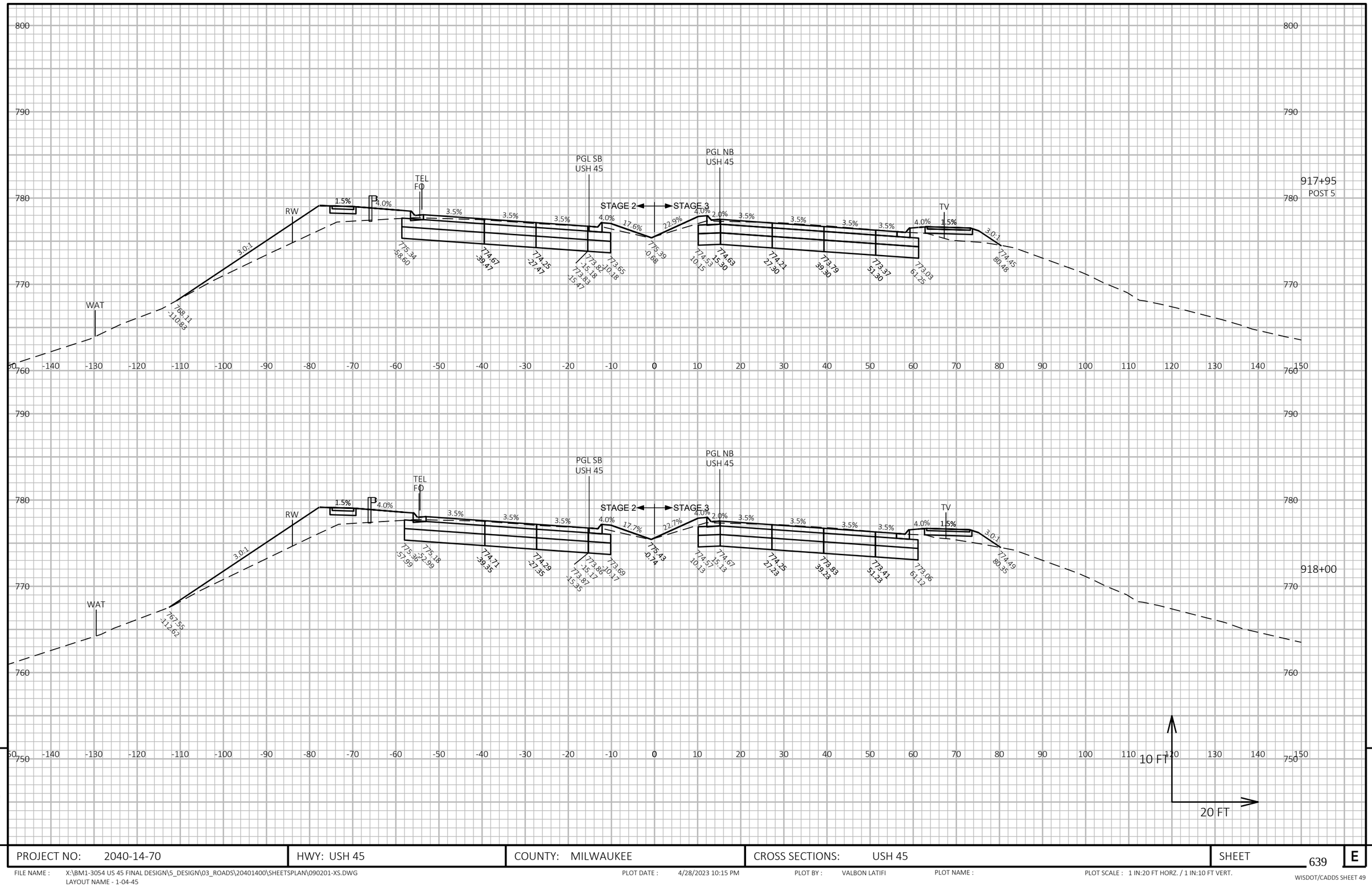


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 638 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-03-45

PLOT DATE : 4/28/2023 10:14 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

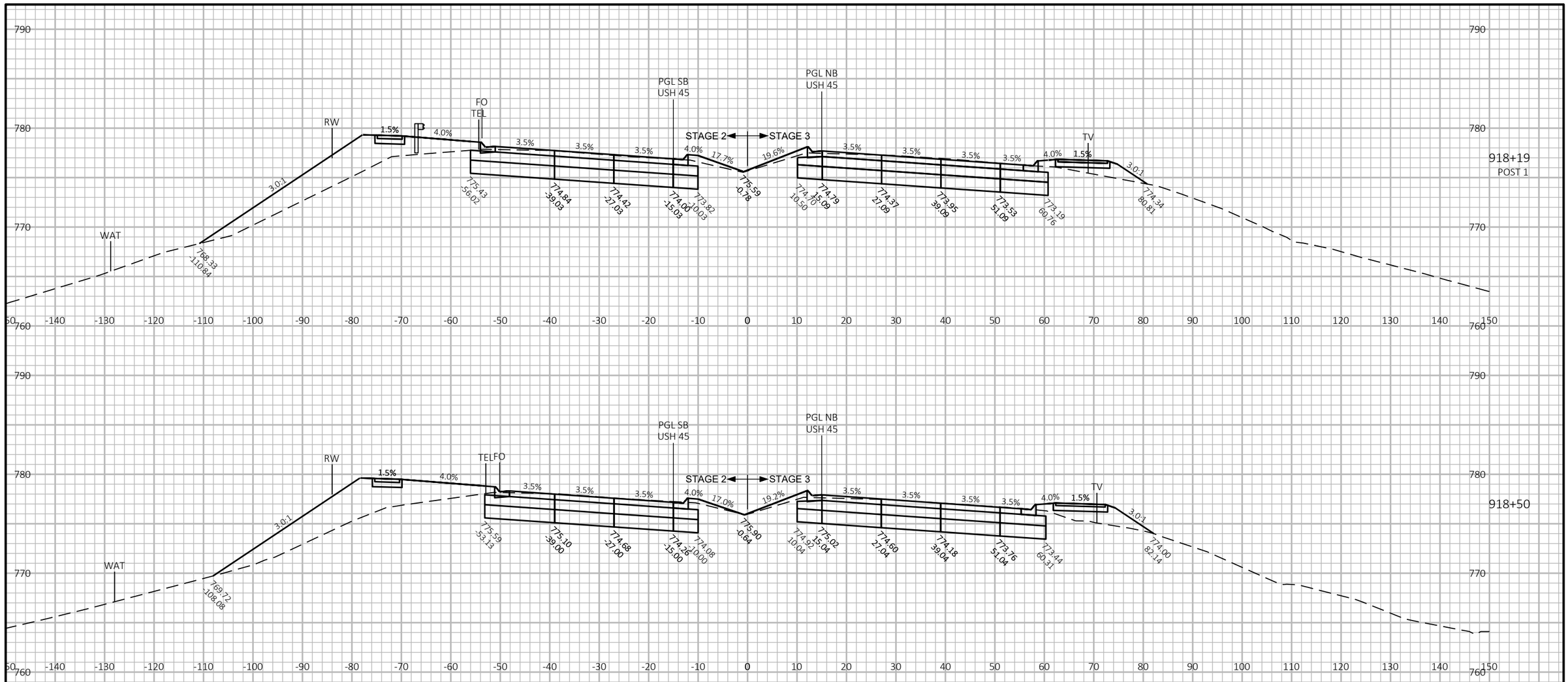


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 639 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-04-45

PLOT DATE : 4/28/2023 10:15 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



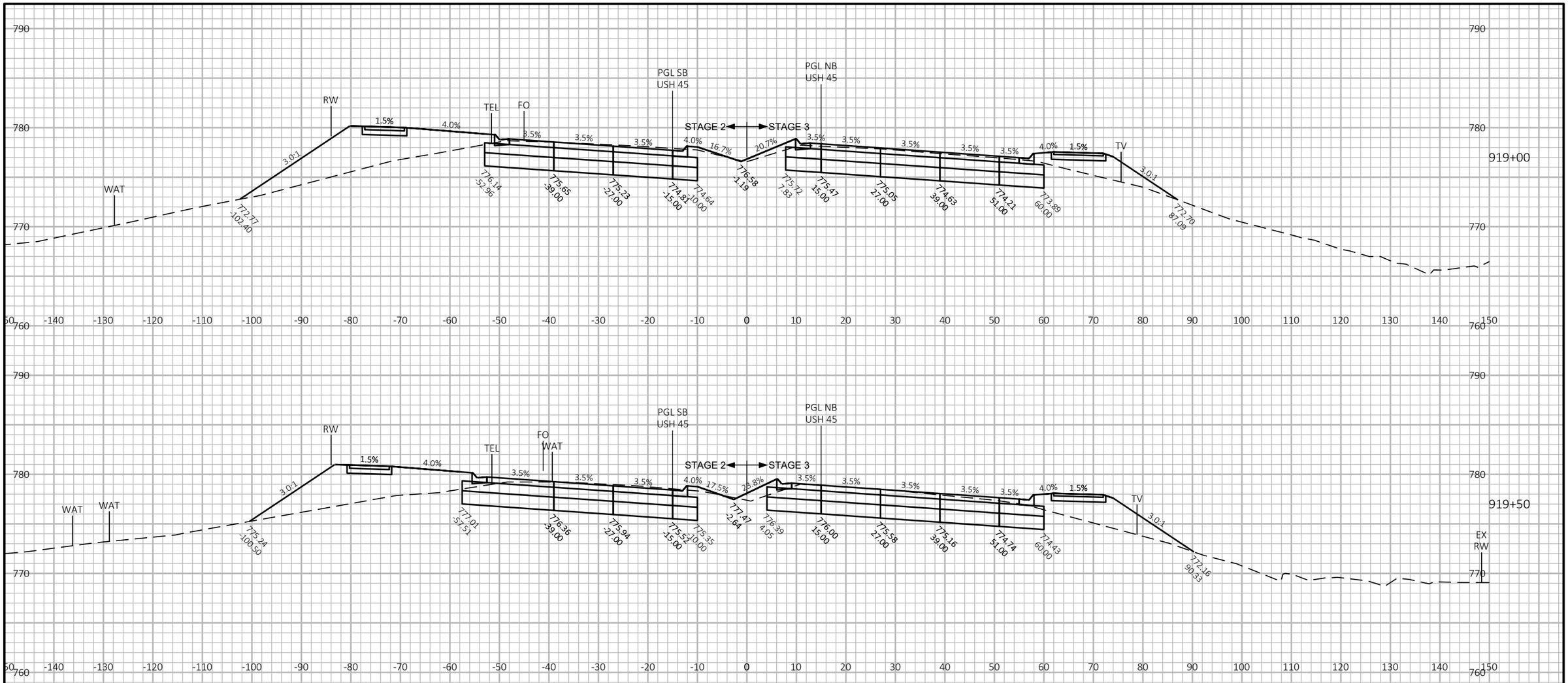
9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 640	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-05-45

PLOT DATE : 4/28/2023 10:15 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



10 FT

20 FT

9

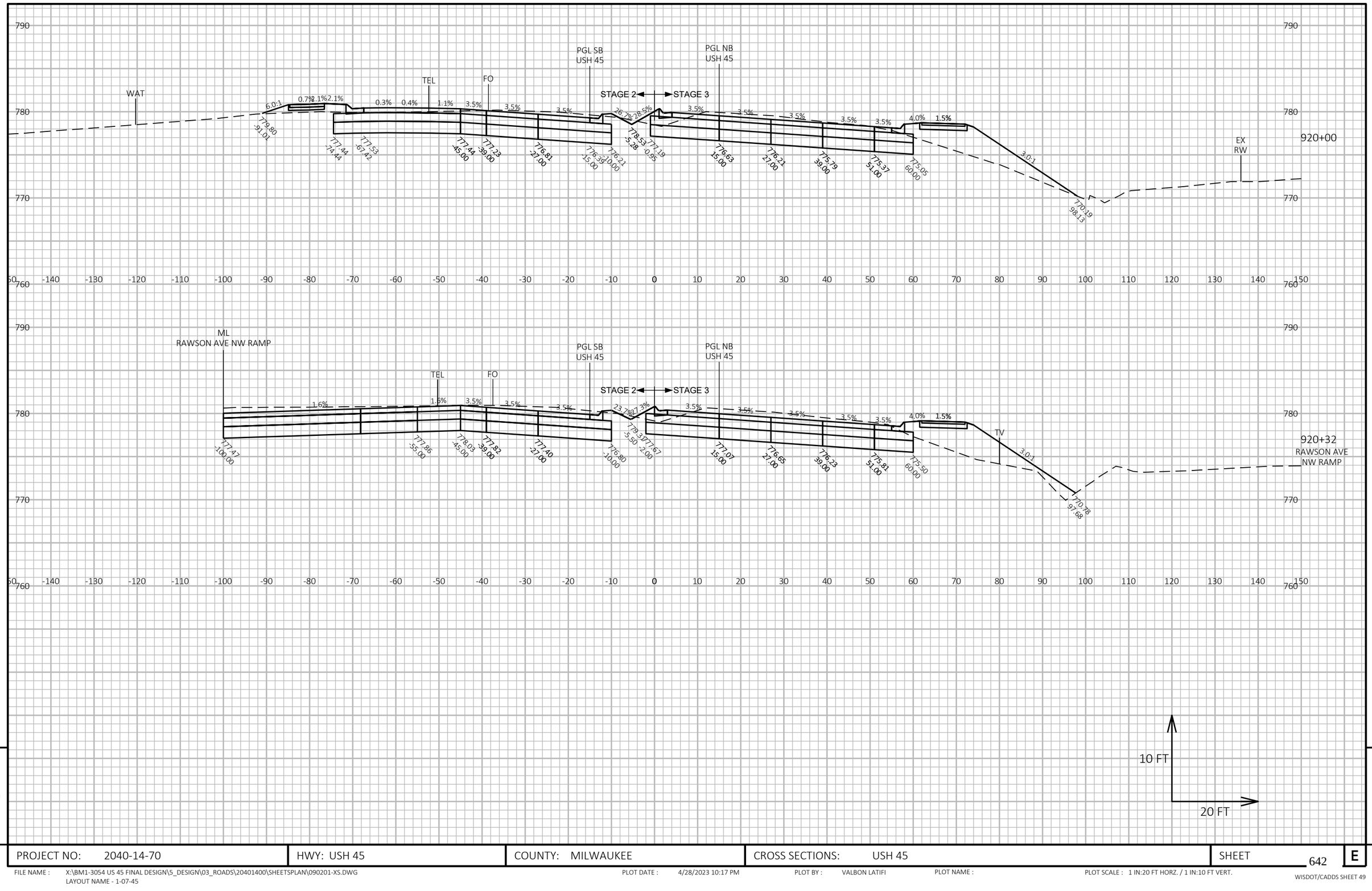
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 641	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-06-45

PLOT DATE : 4/28/2023 10:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

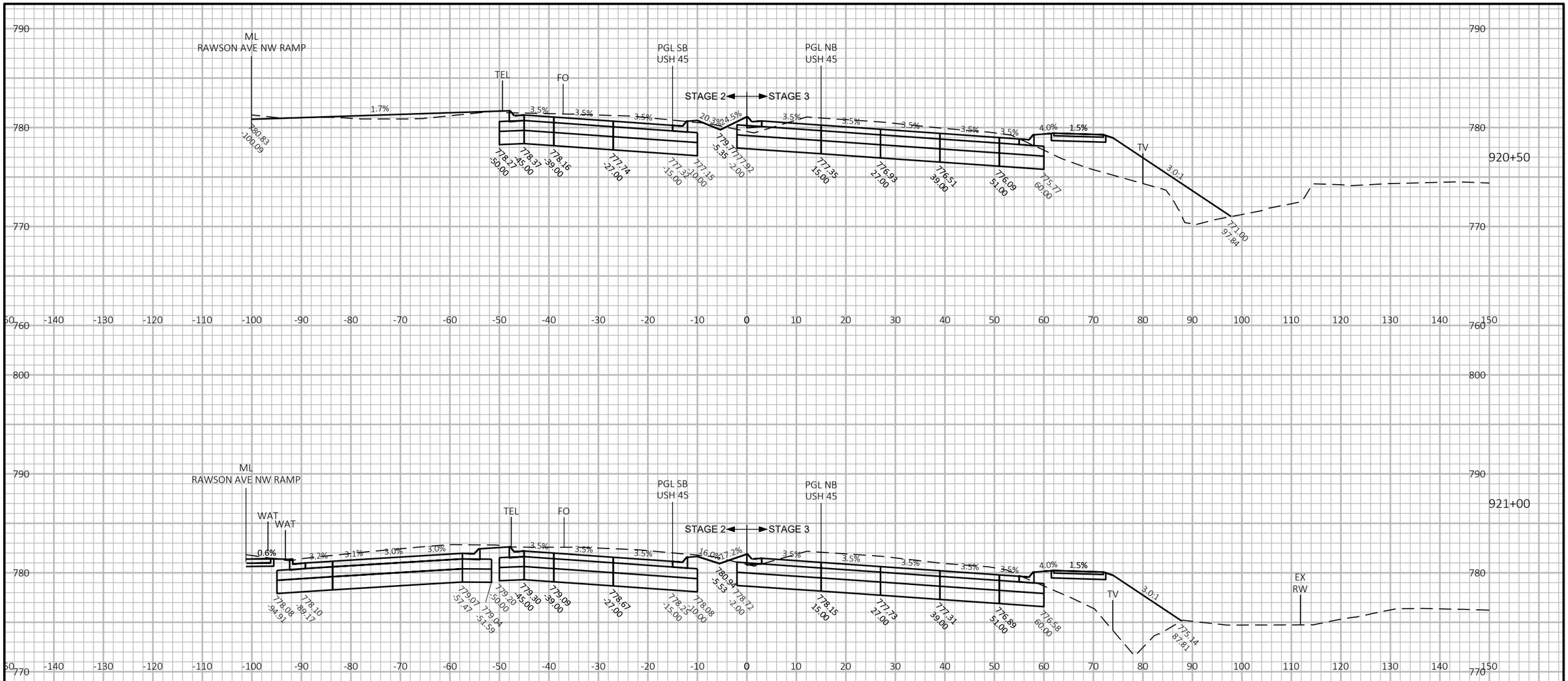


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 642 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-07-45

PLOT DATE : 4/28/2023 10:17 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

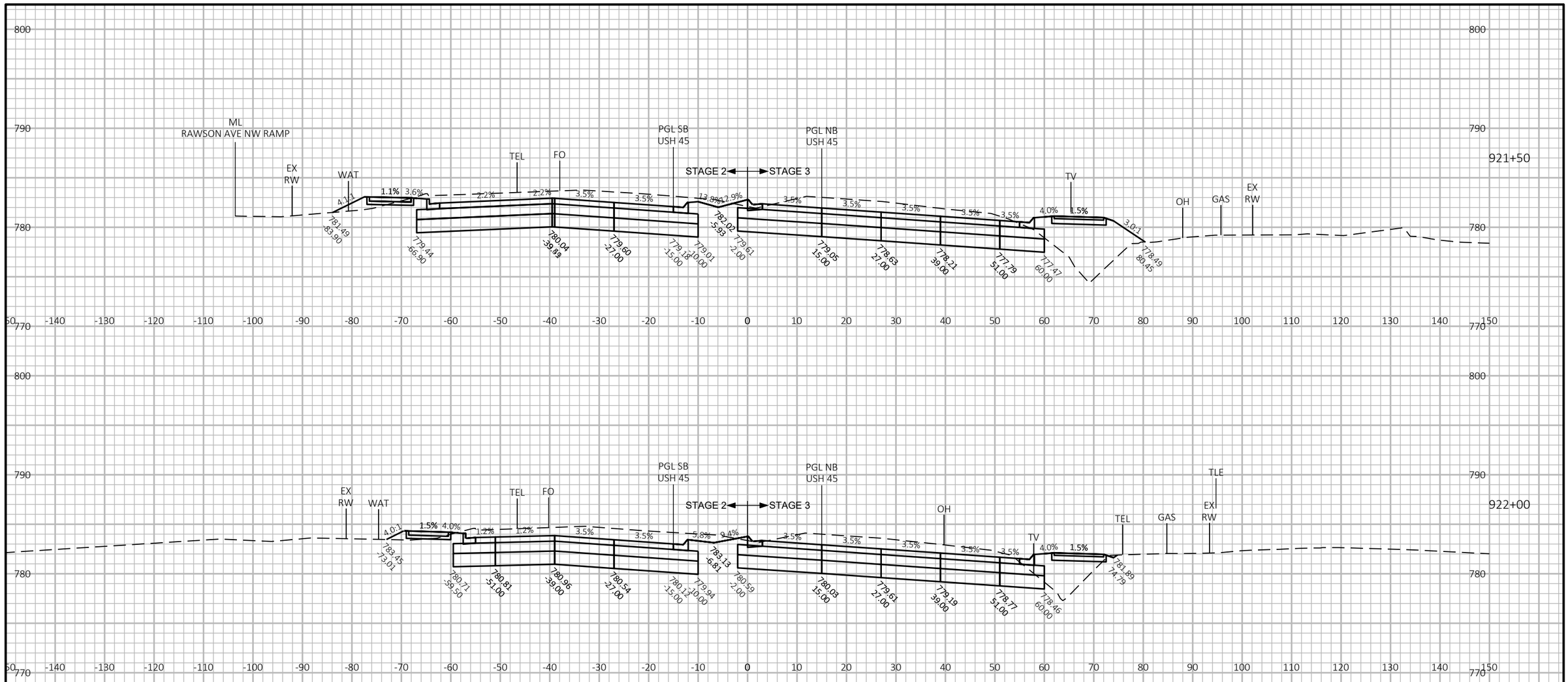
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 643	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-08-45

PLOT DATE : 4/28/2023 10:17 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

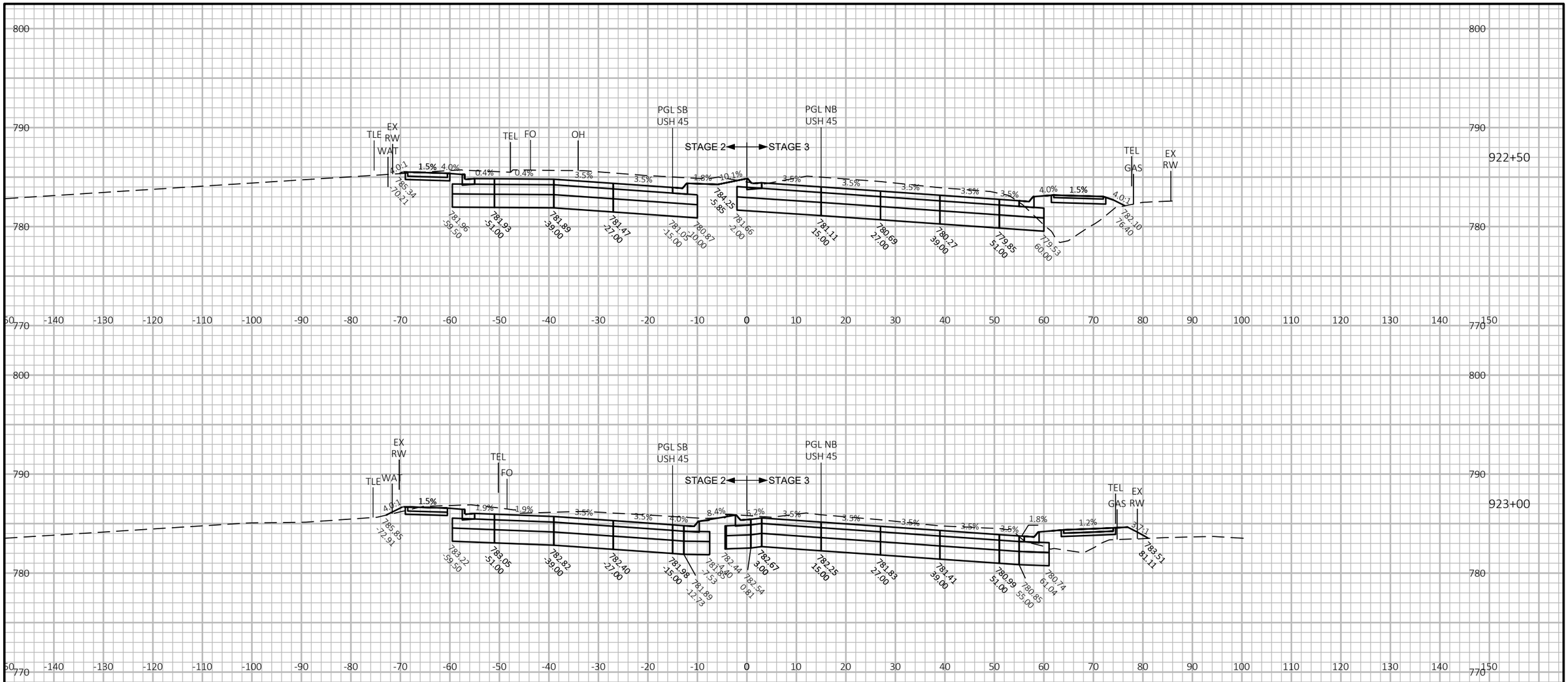


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 644	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-09-45

PLOT DATE : 4/28/2023 10:18 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

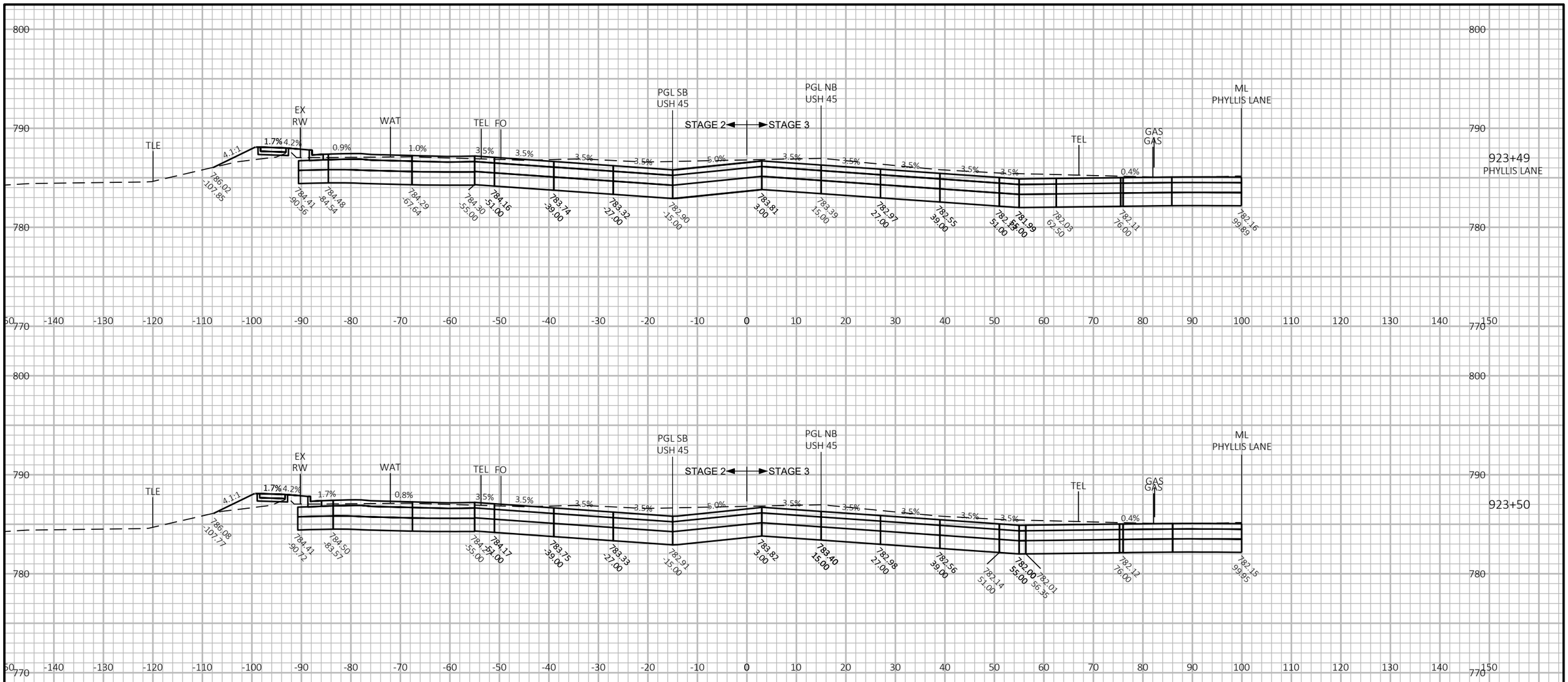
9

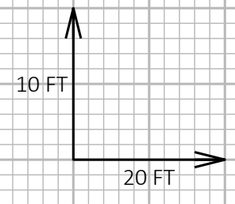
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 645	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-10-45

PLOT DATE : 4/28/2023 10:18 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

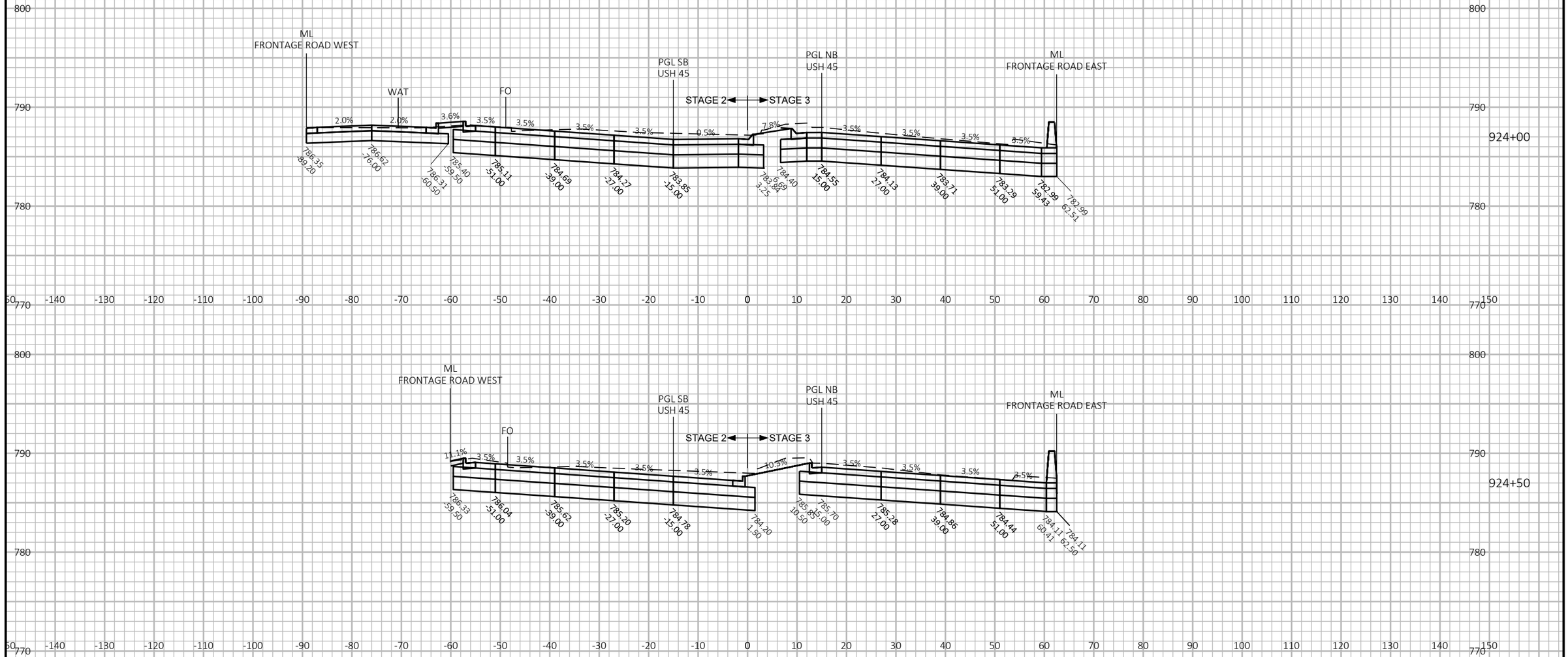
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 646	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-11-45

PLOT DATE : 4/28/2023 10:19 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

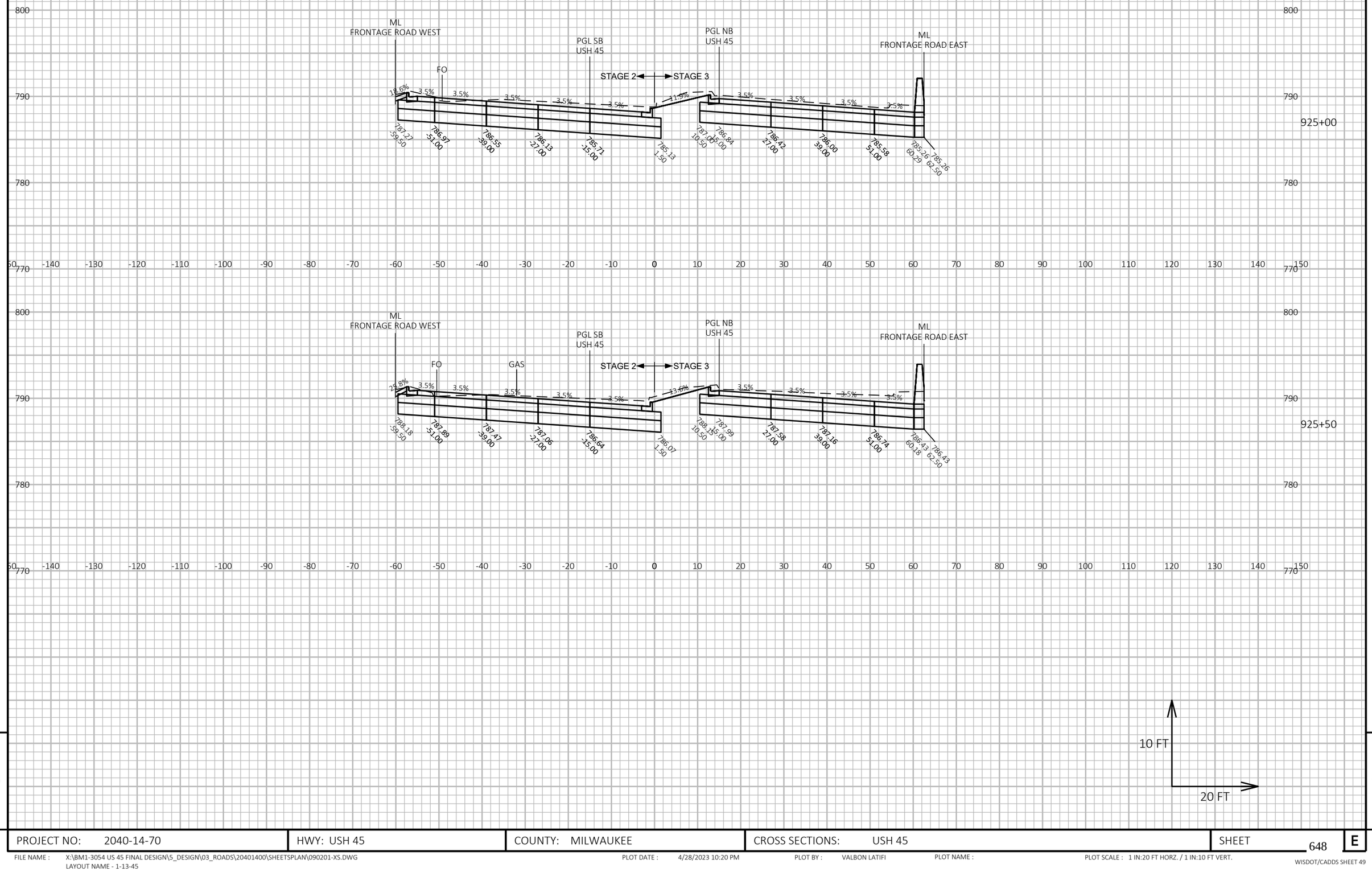


9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 647	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-12-45
PLOT DATE : 4/28/2023 10:19 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

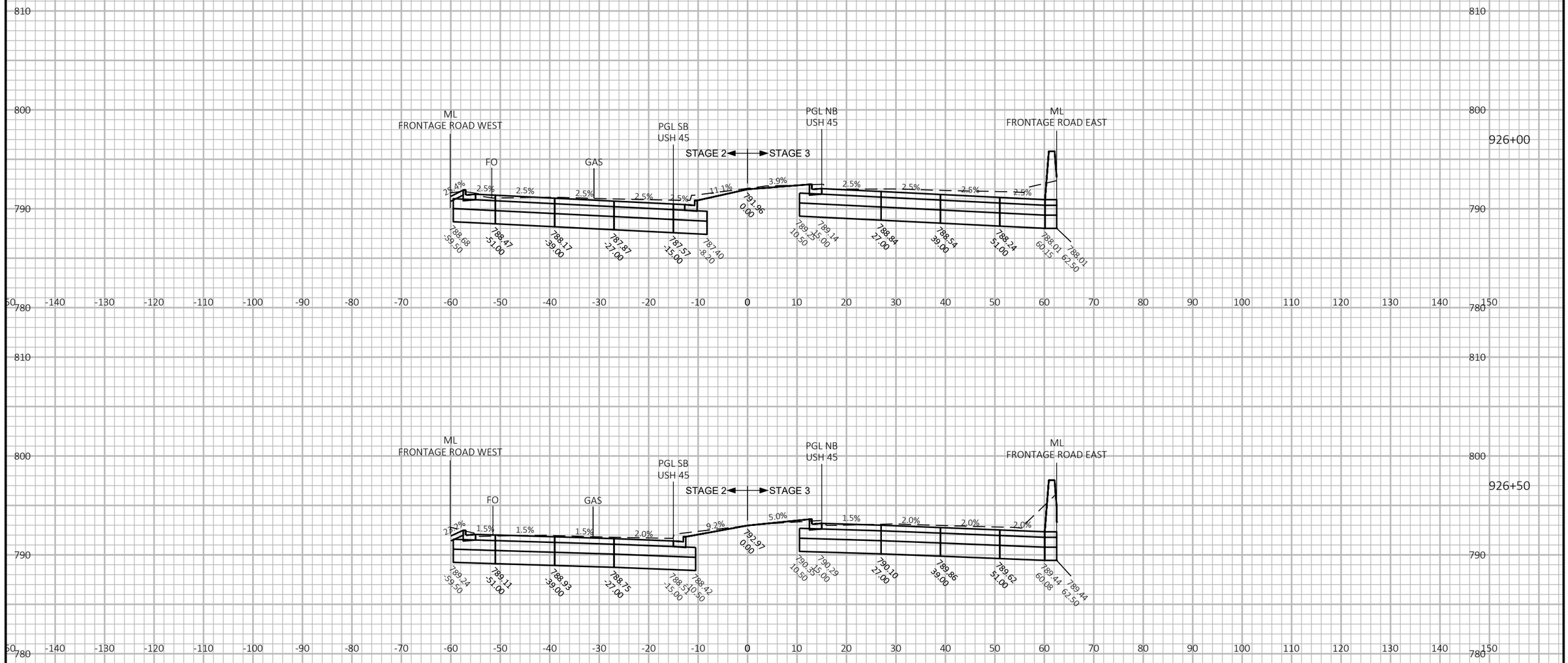
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 648	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-13-45

PLOT DATE : 4/28/2023 10:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

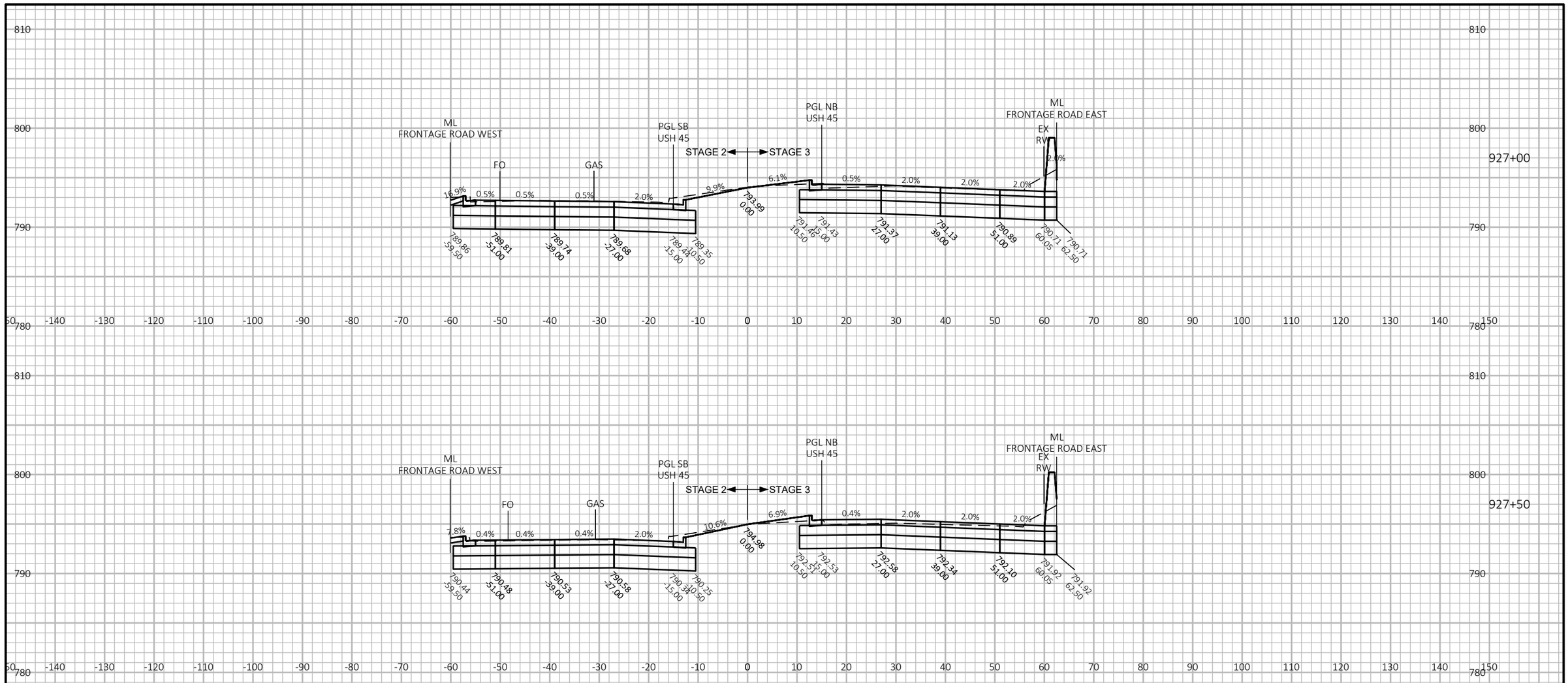
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 649	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-14-45

PLOT DATE : 4/28/2023 10:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



10 FT

20 FT

9

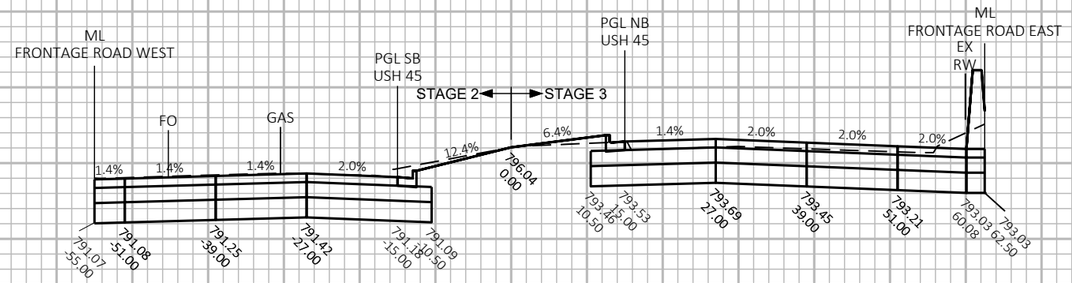
9

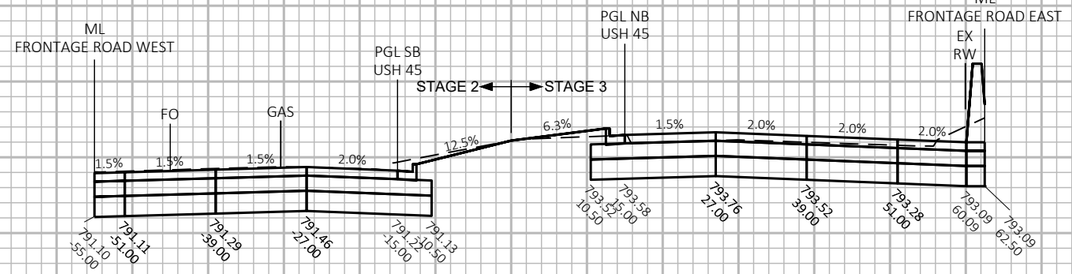
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 650	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-15-45

PLOT DATE : 4/28/2023 10:21 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







9

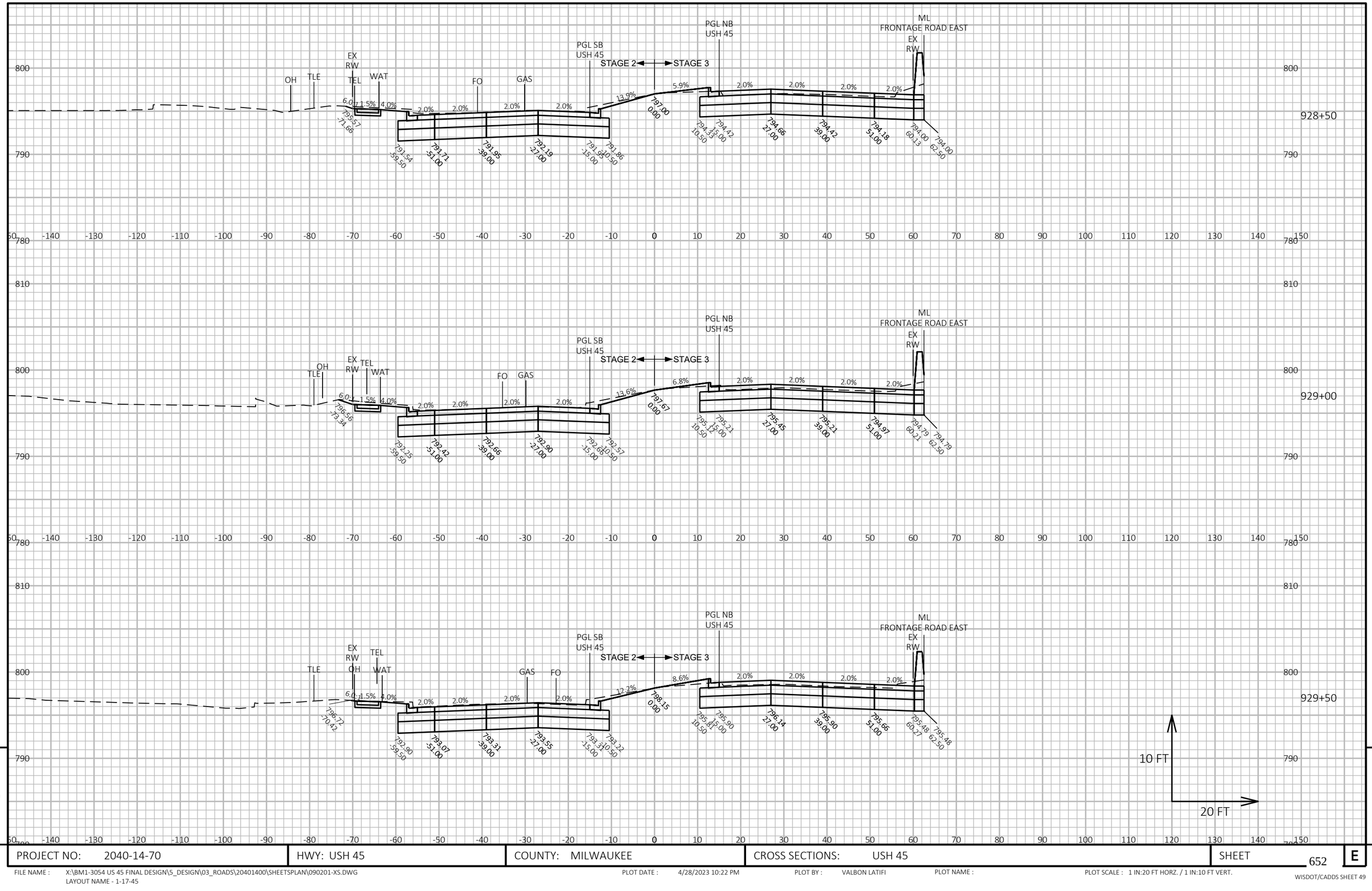
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 651	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-16-45

PLOT DATE : 4/28/2023 10:21 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

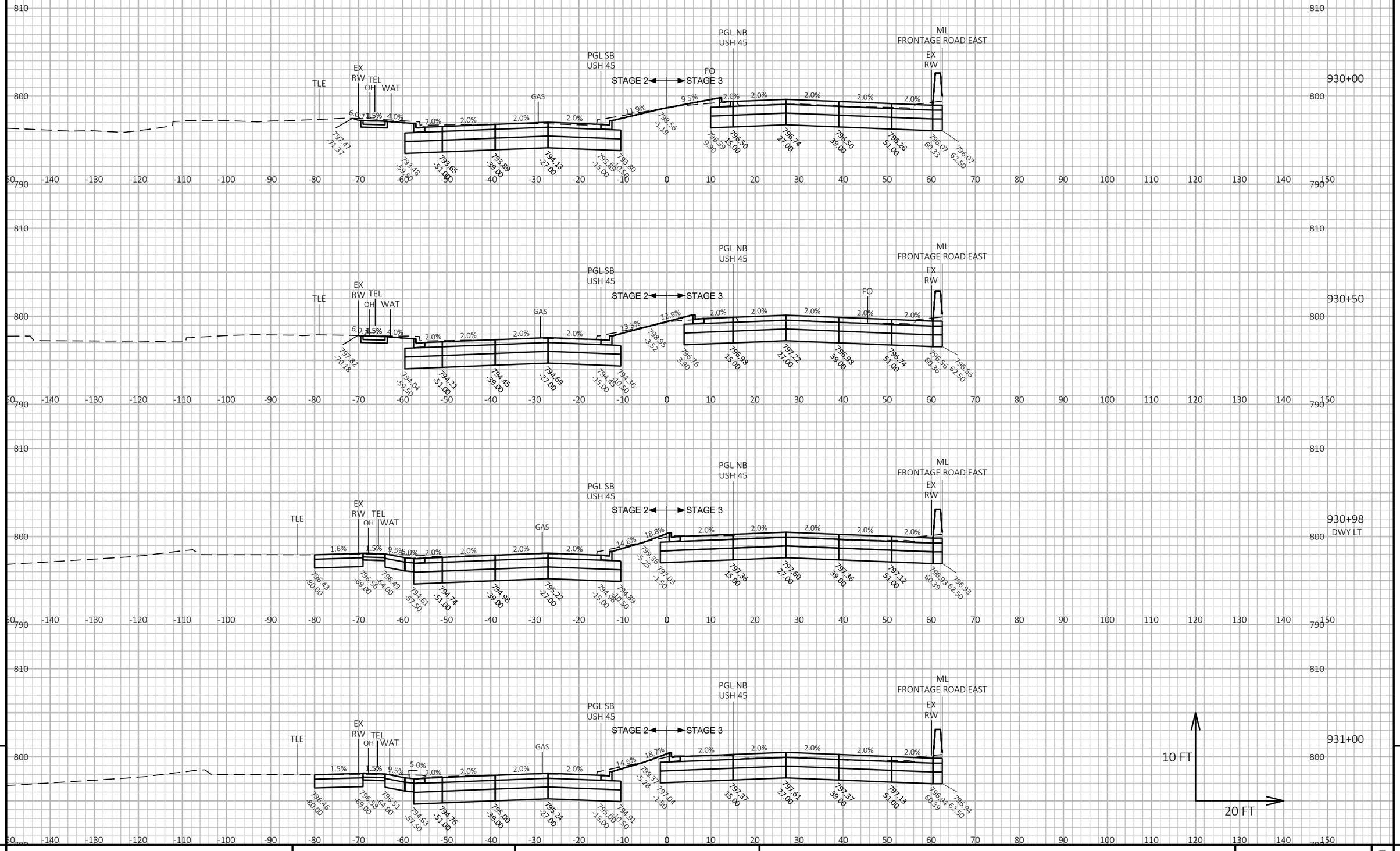


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 652 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 1-17-45

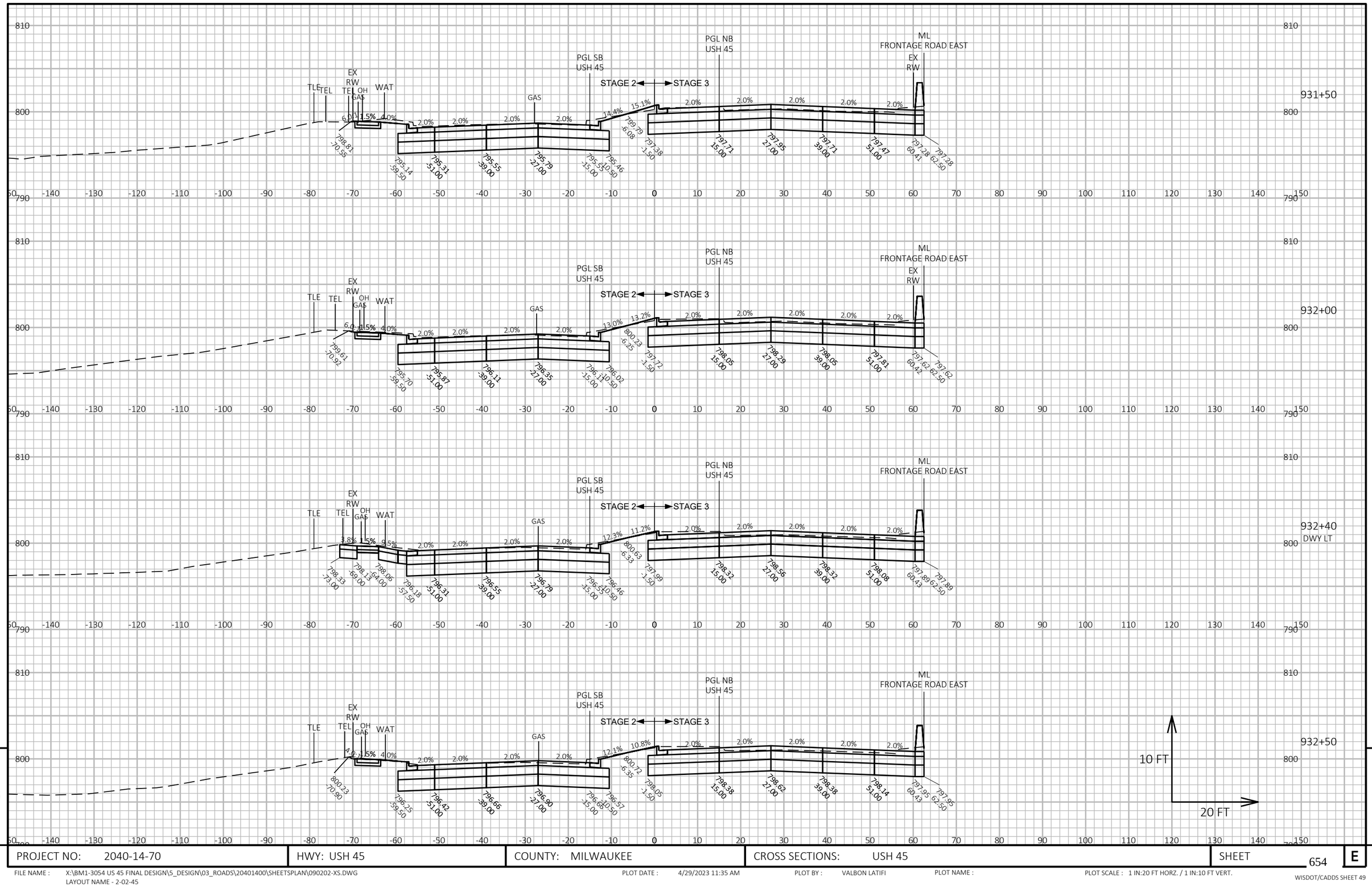
PLOT DATE : 4/28/2023 10:22 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 653 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 2-01-45
PLOT DATE : 4/29/2023 11:35 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

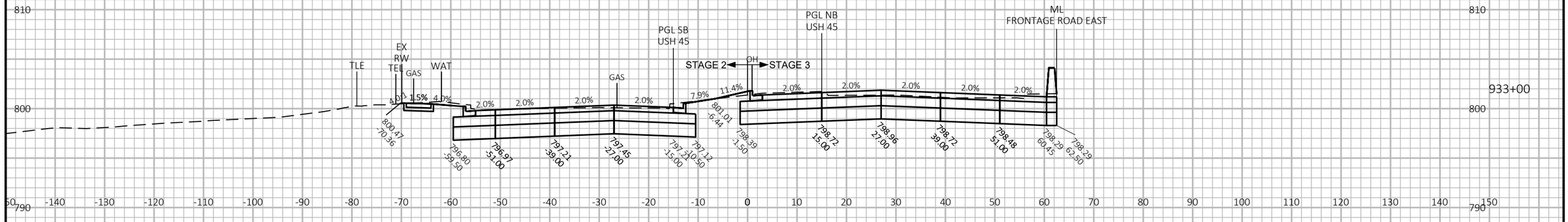
9

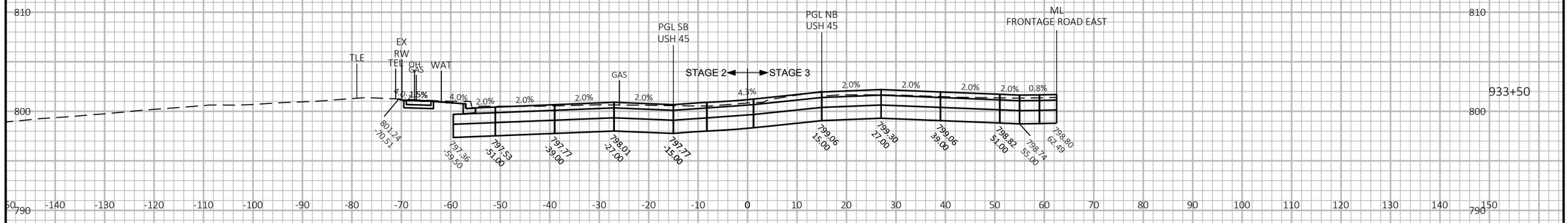
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 654	E

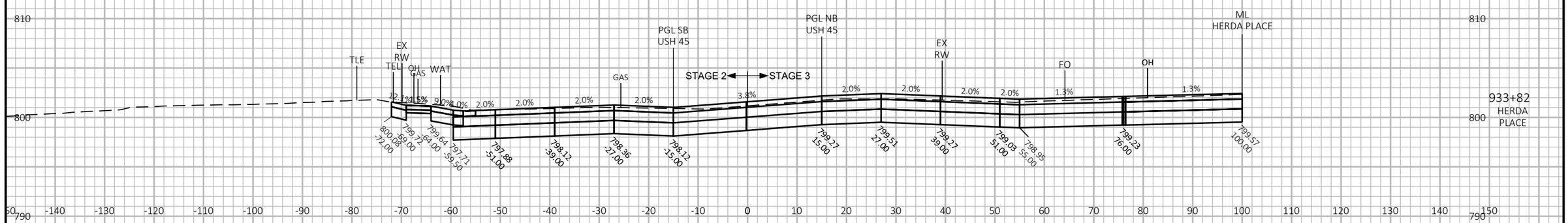
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 2-02-45

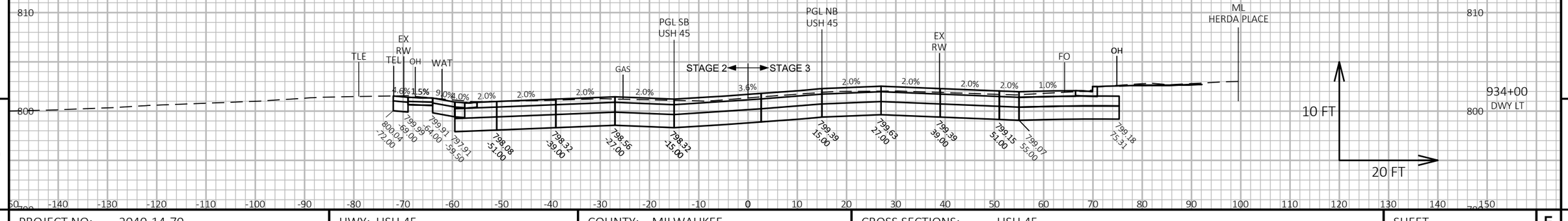
PLOT DATE : 4/29/2023 11:35 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







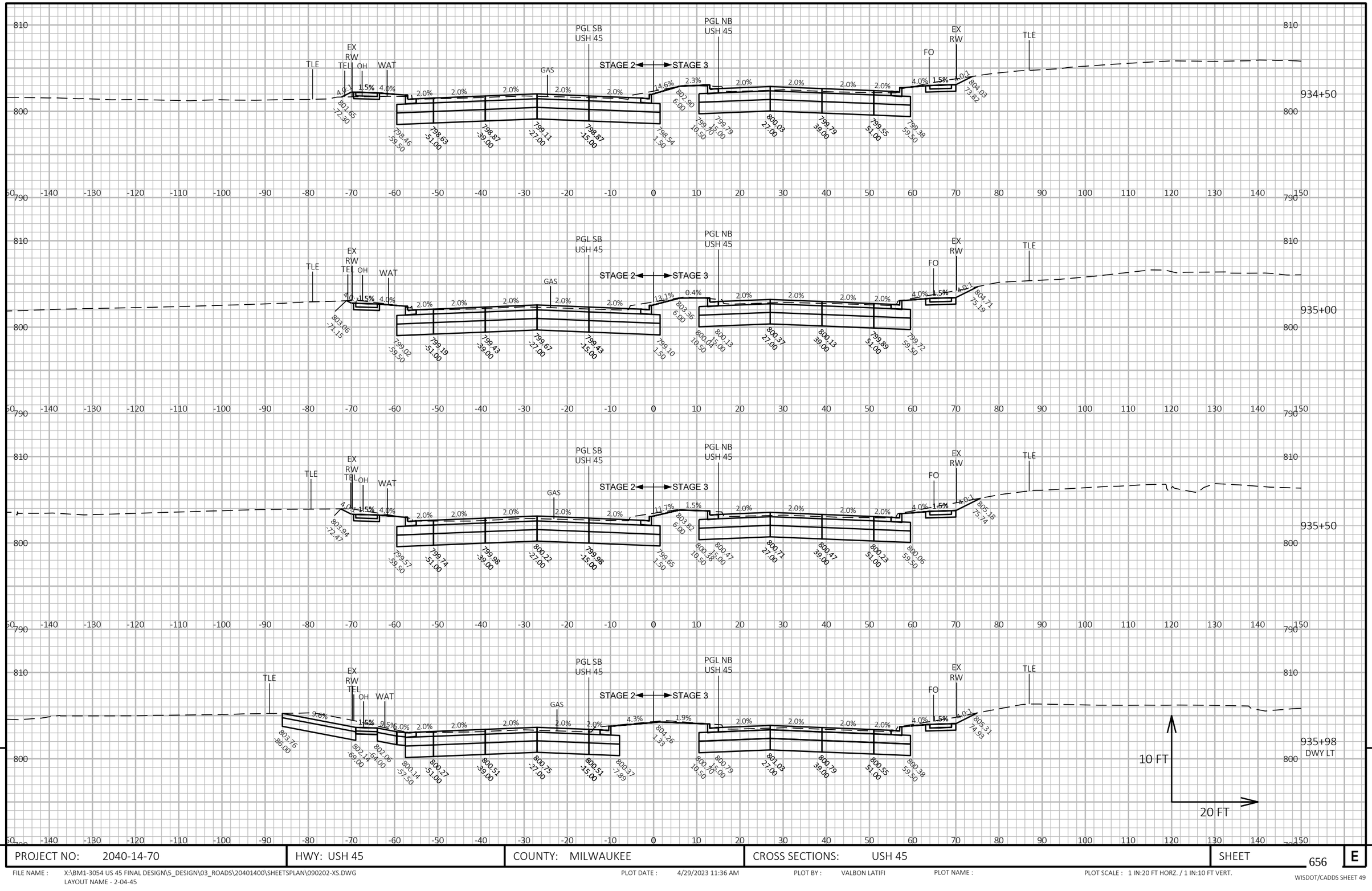


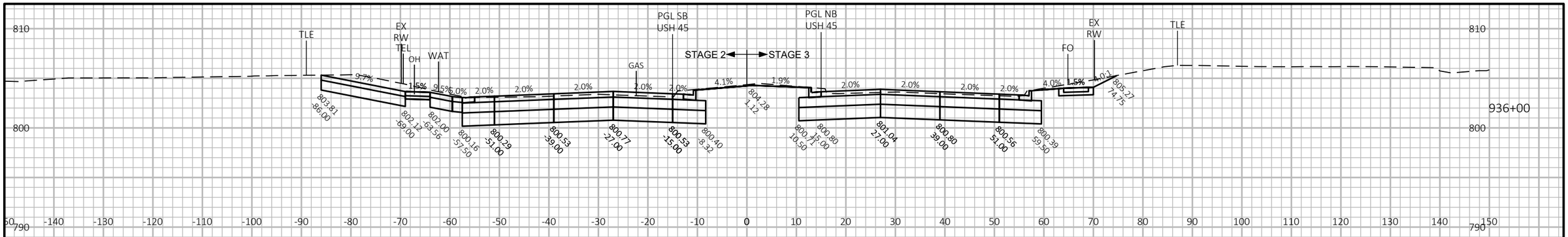
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 655	E

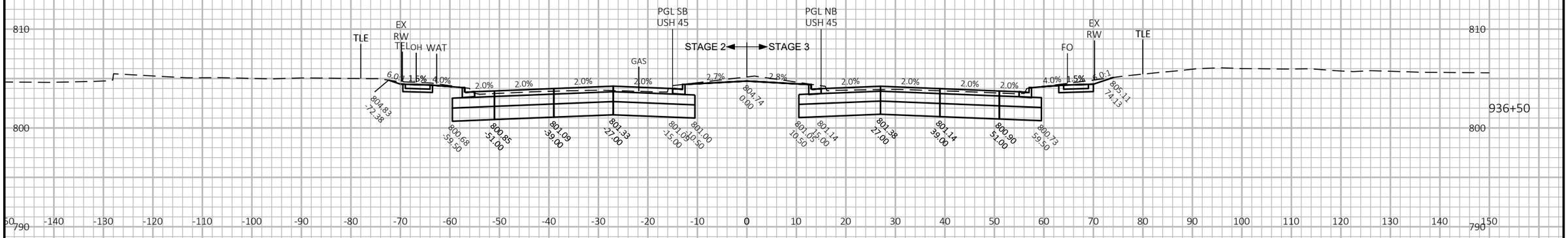
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 2-03-45

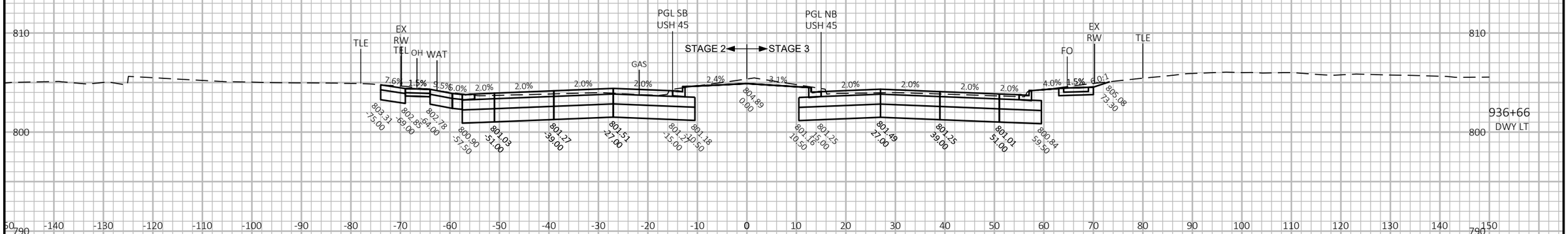
PLOT DATE : 4/29/2023 11:36 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

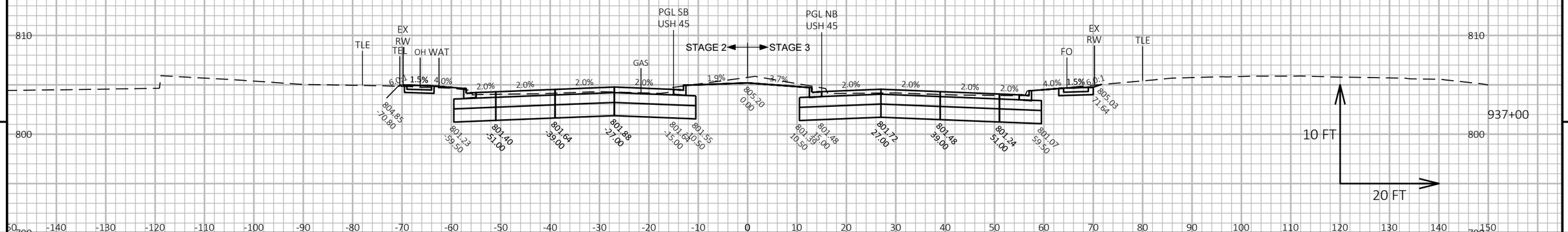
WISDOT/CADDS SHEET 49


934+50
935+00
935+50
935+98
DWY LT
TLE
EX RW
TEL
OH
WAT
GAS
PGL SB USH 45
PGL NB USH 45
STAGE 2
STAGE 3
FO
10 FT
20 FT



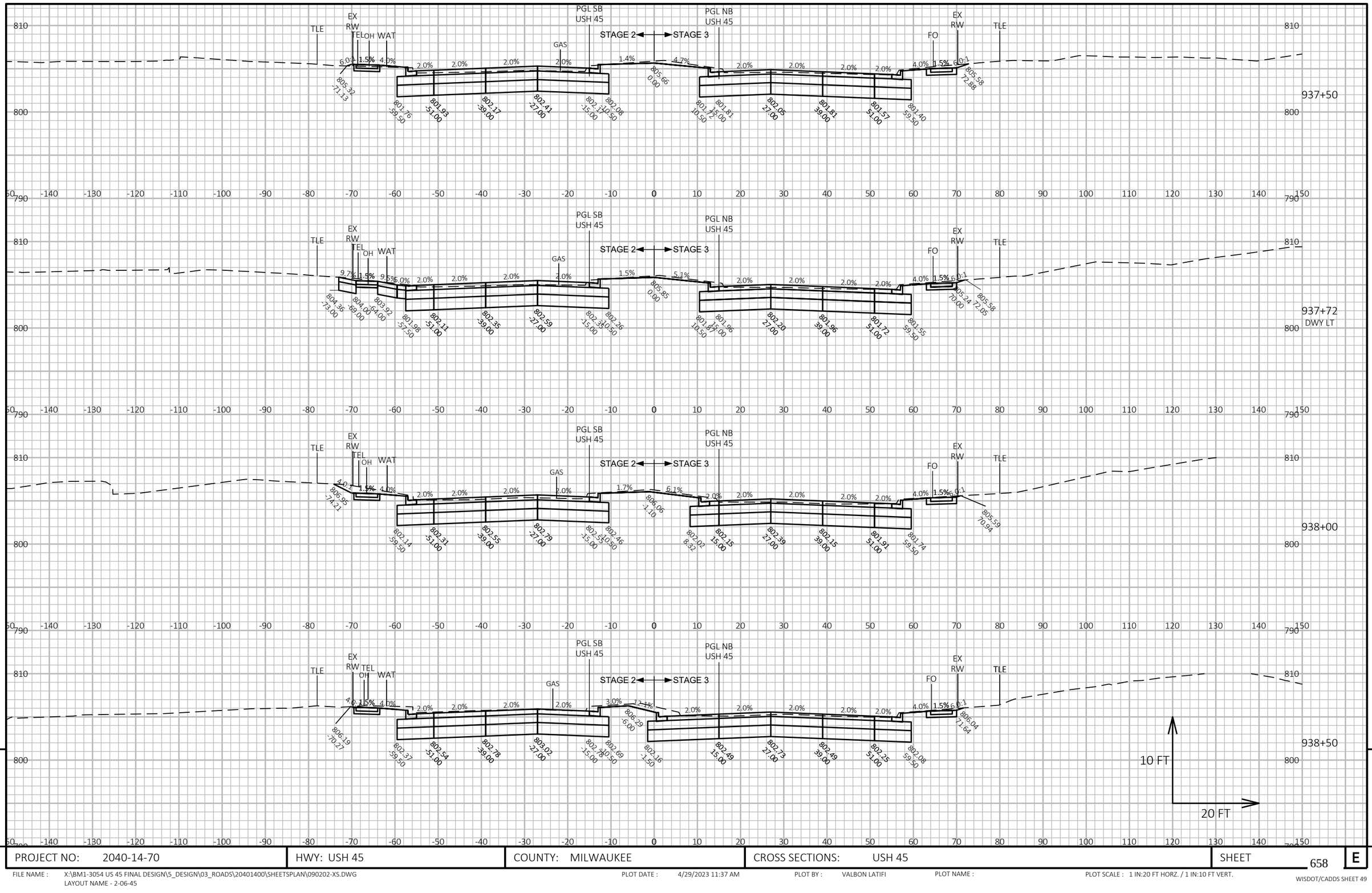






PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 657	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 2-05-45
PLOT DATE : 4/29/2023 11:36 AM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

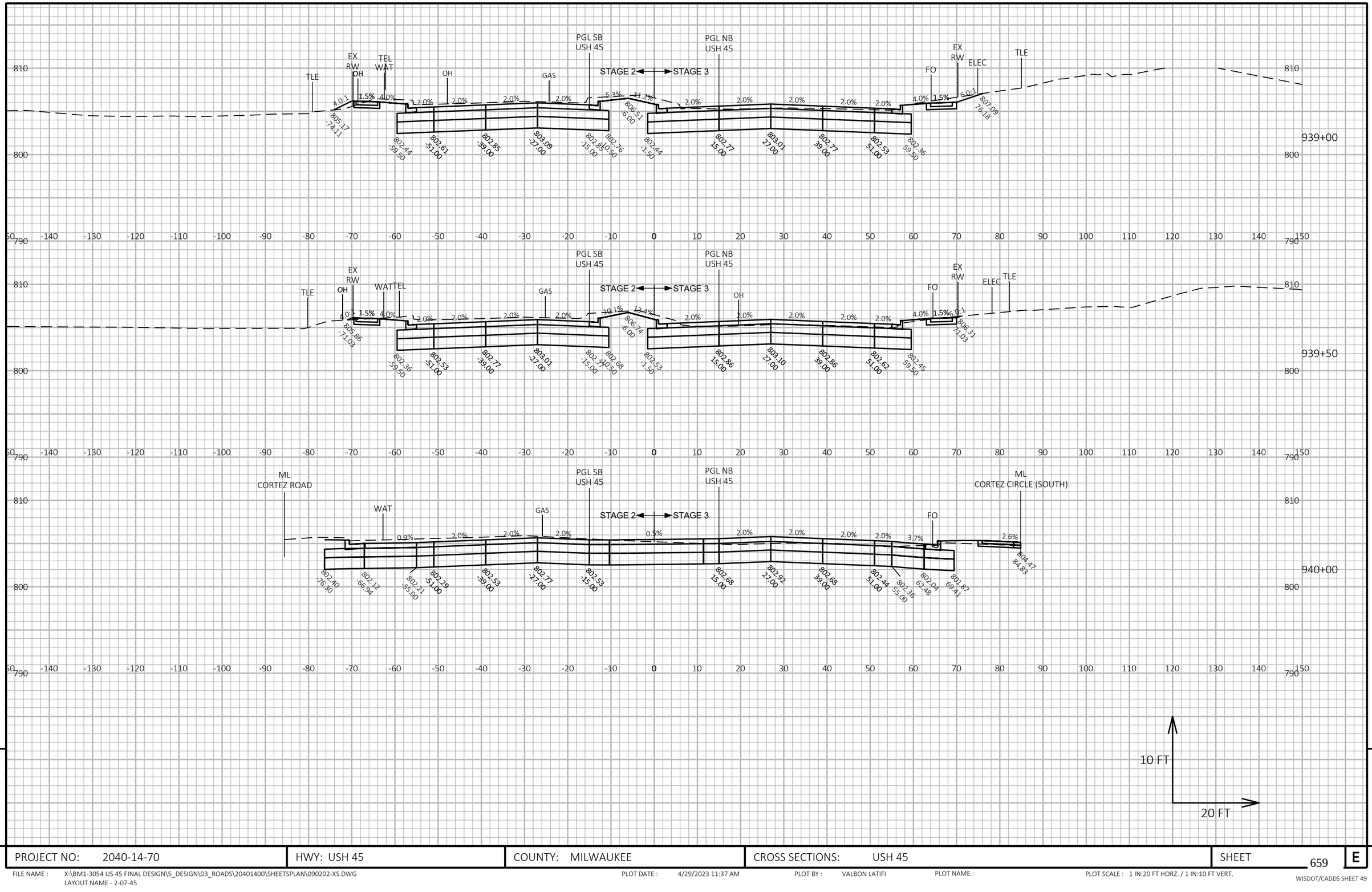
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 658	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 2-06-45

PLOT DATE : 4/29/2023 11:37 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

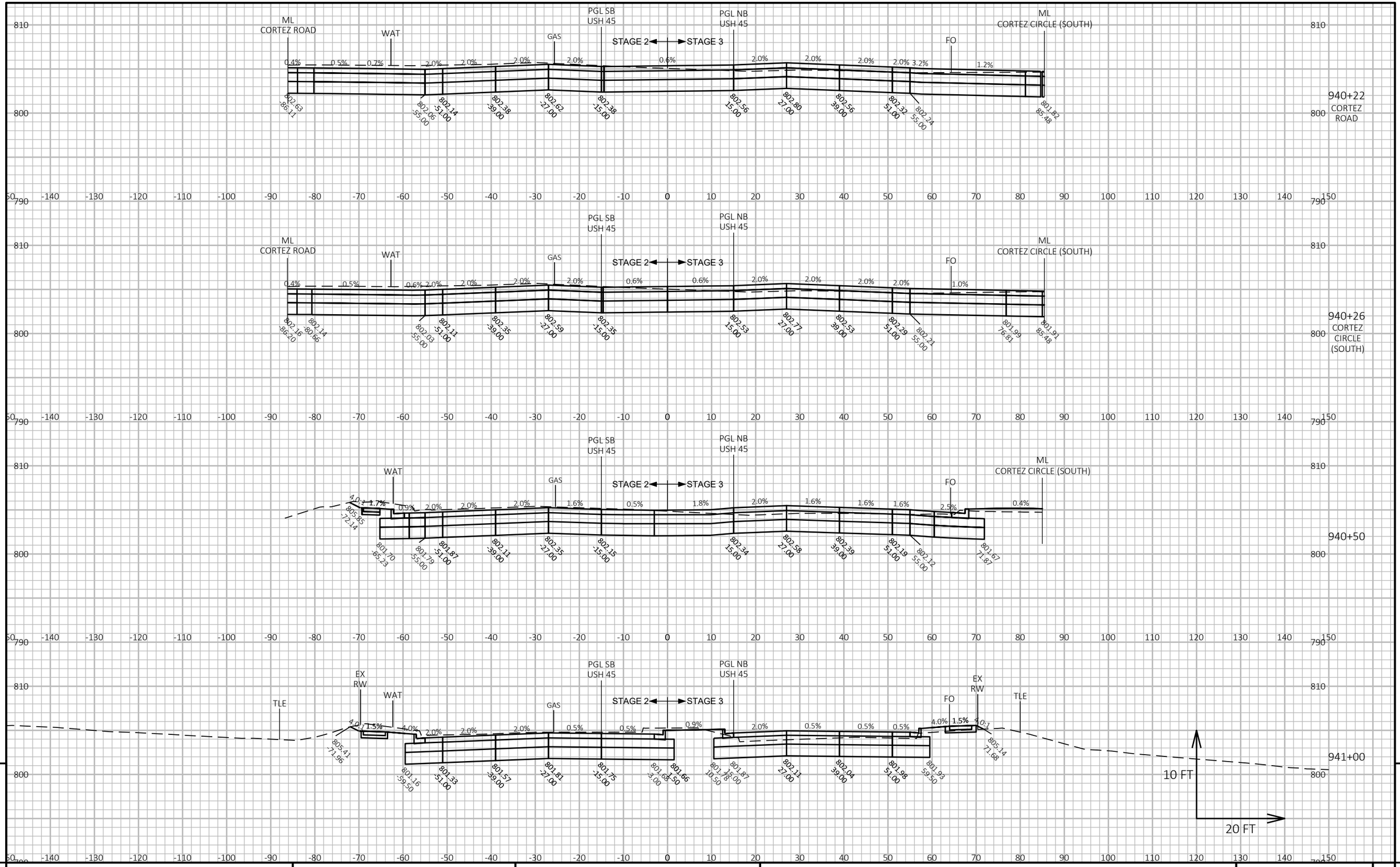


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 659 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 2-07-45

PLOT DATE : 4/29/2023 11:37 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

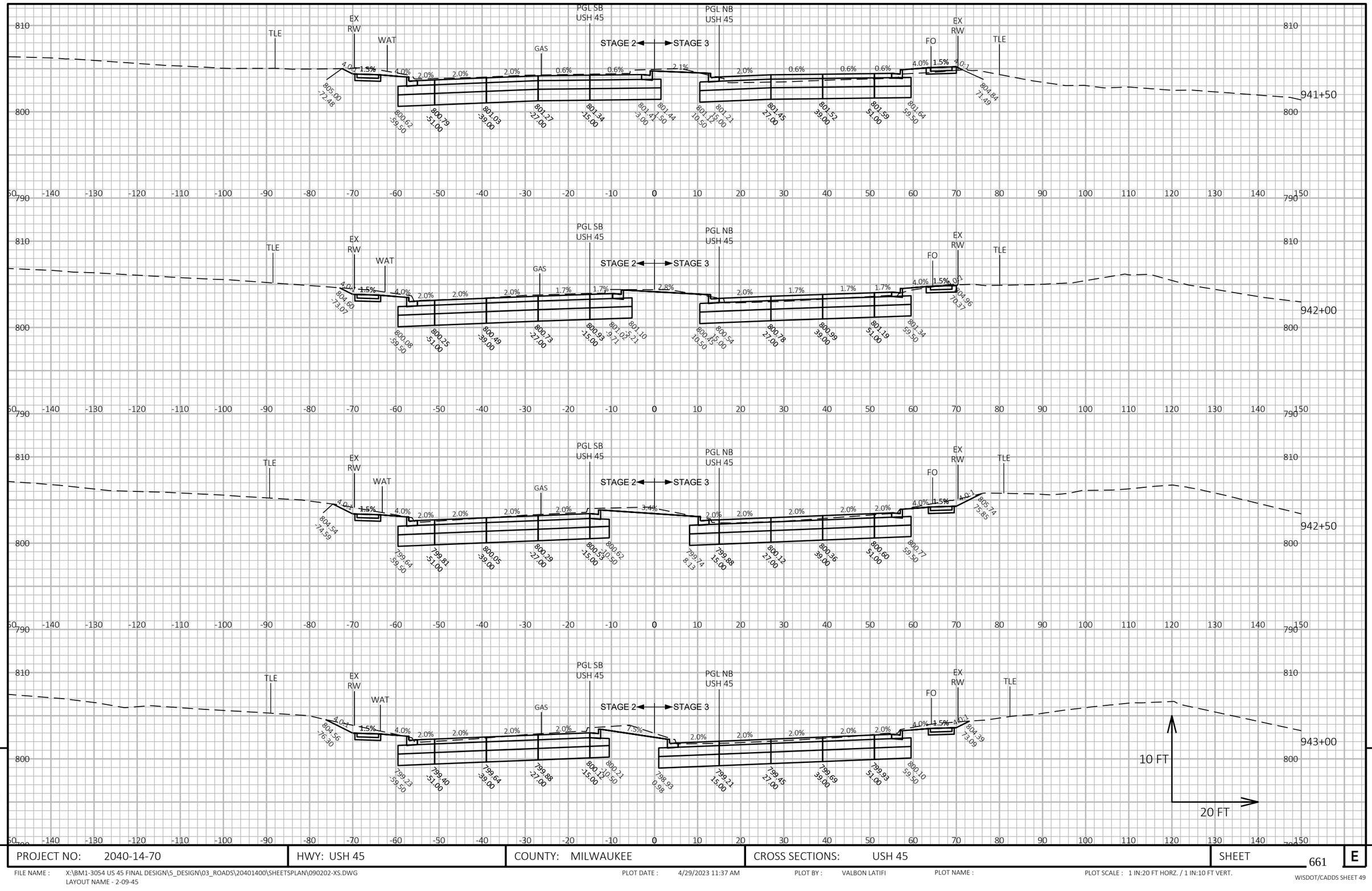
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 660	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 2-08-45

PLOT DATE : 4/29/2023 11:37 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

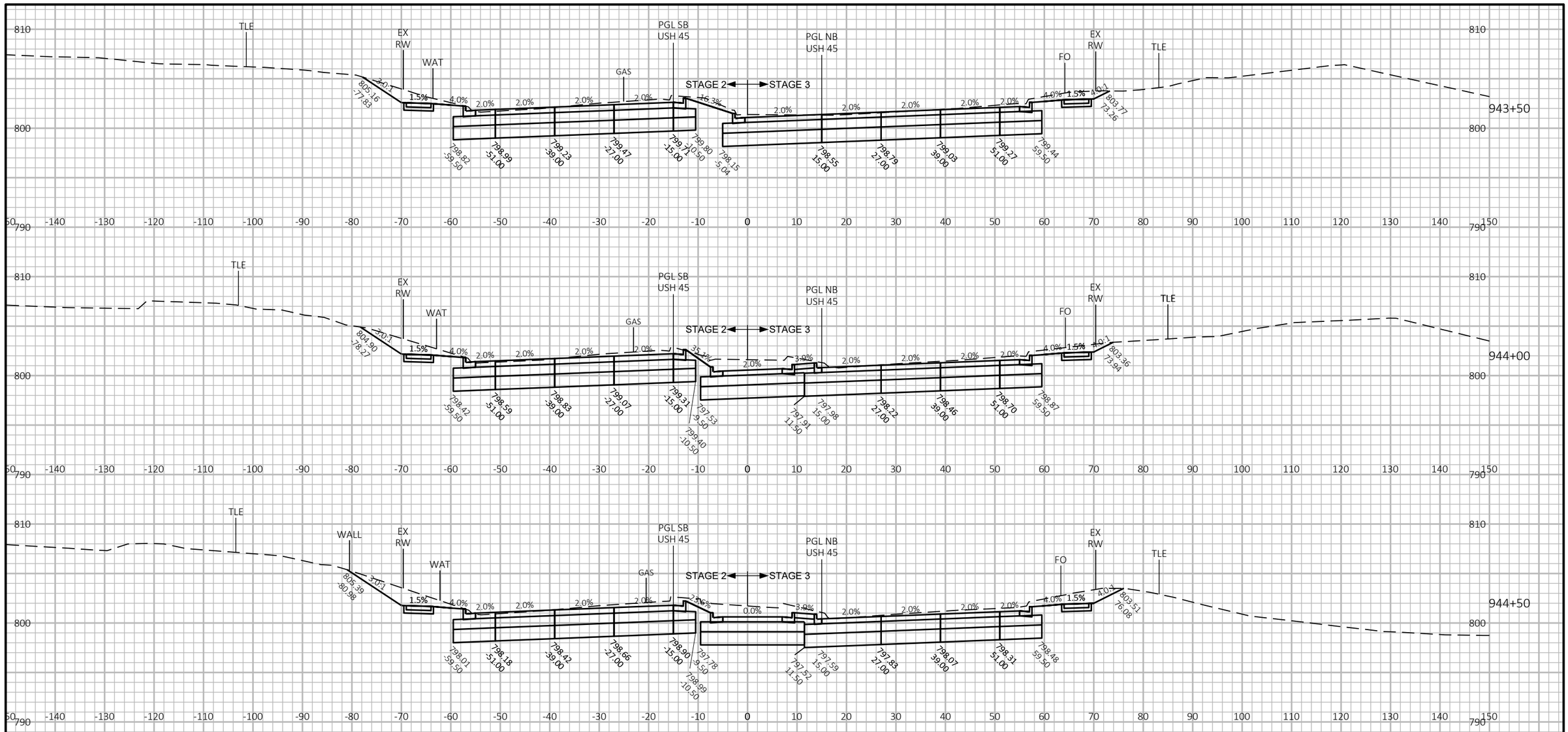
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 661	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 2-09-45

PLOT DATE : 4/29/2023 11:37 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

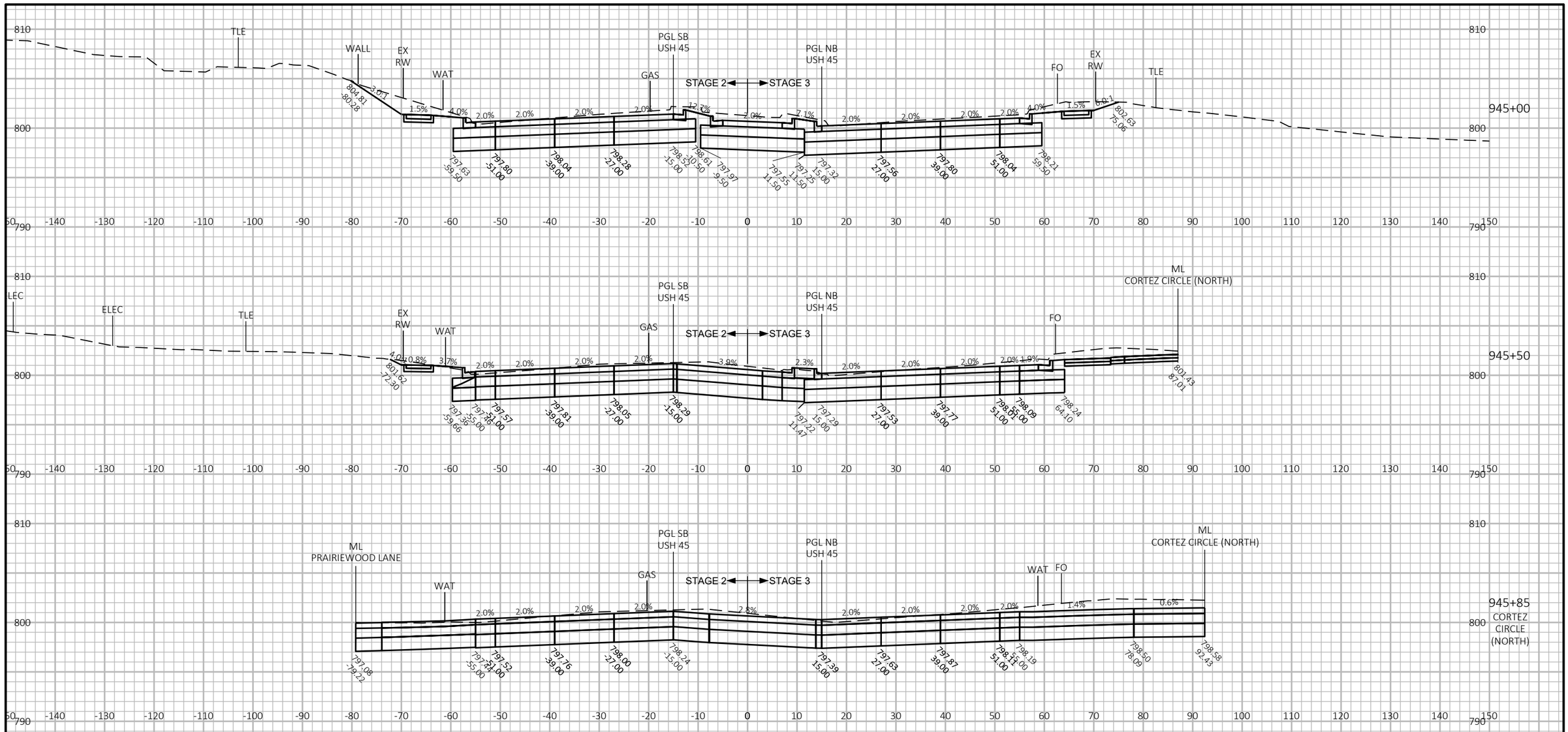
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 662	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 2-10-45

PLOT DATE : 4/29/2023 11:37 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

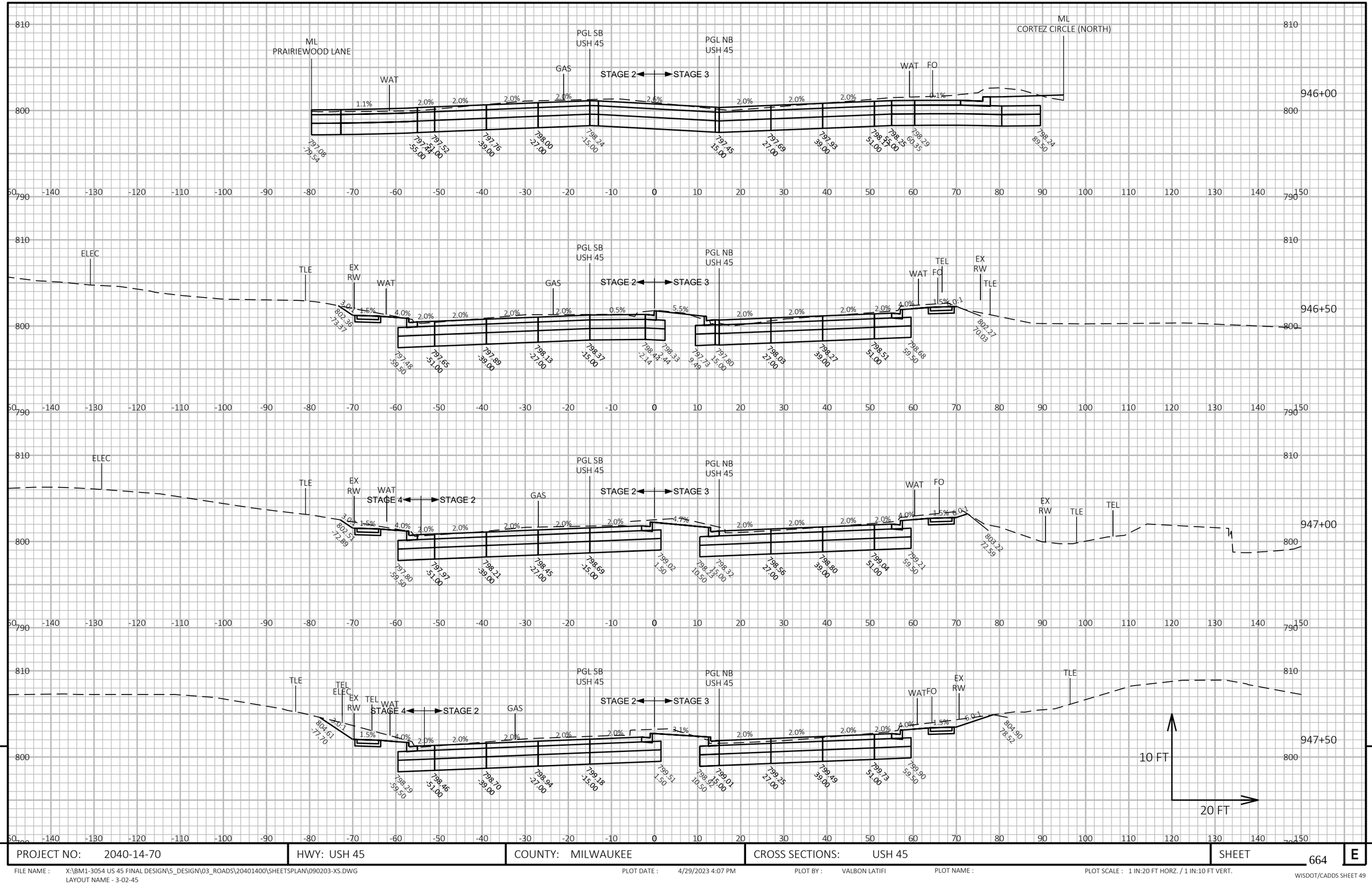
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 663	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 3-01-45

PLOT DATE : 4/29/2023 4:07 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

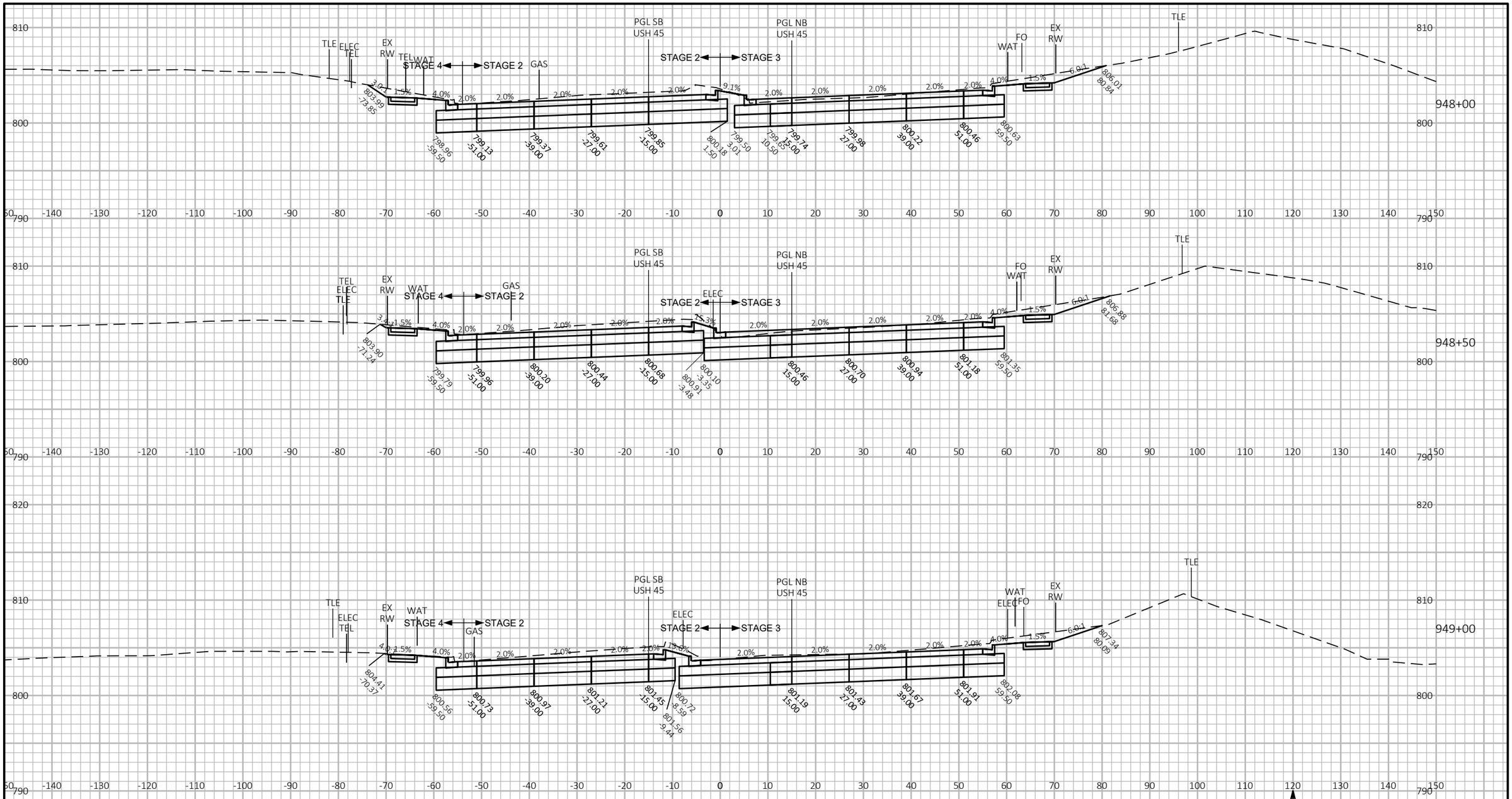
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 664	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 3-02-45

PLOT DATE : 4/29/2023 4:07 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

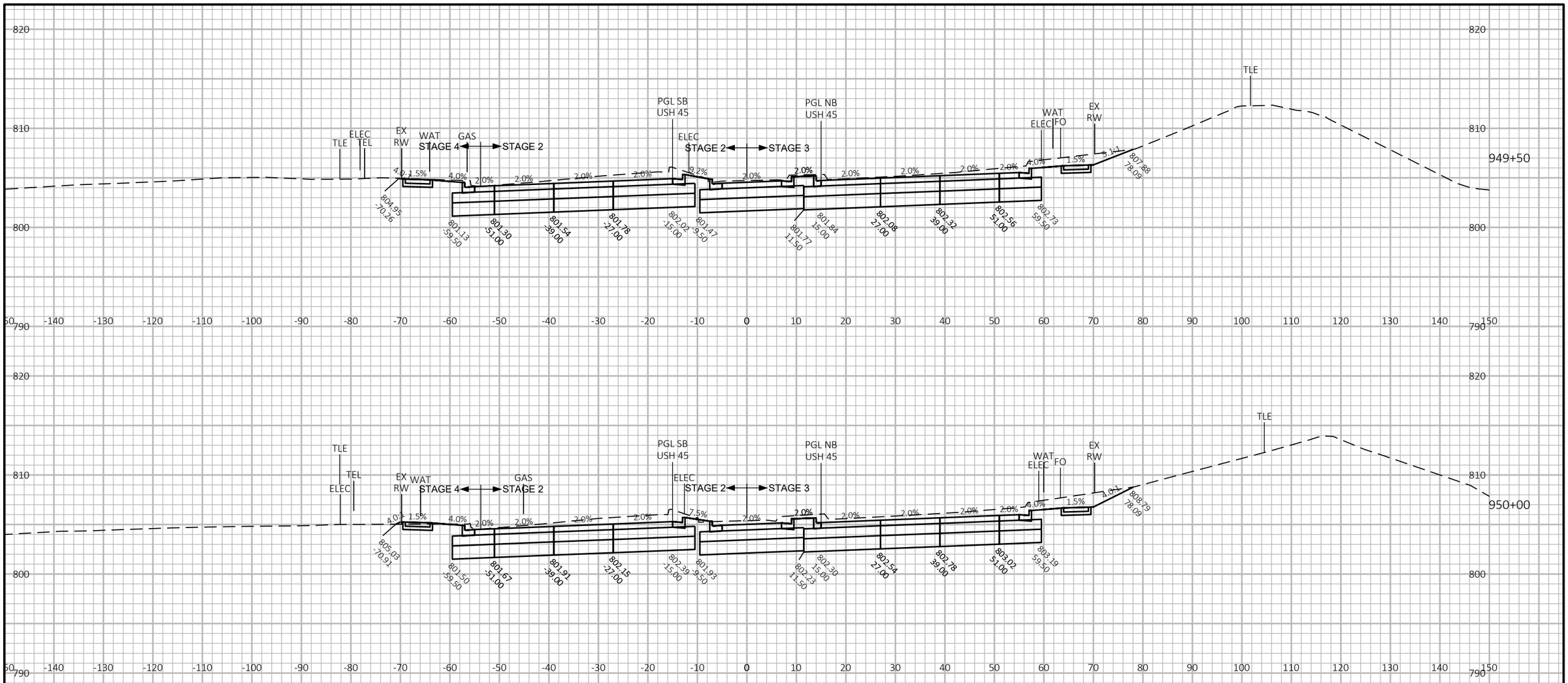


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 665	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 3-03-45

PLOT DATE : 4/29/2023 4:08 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

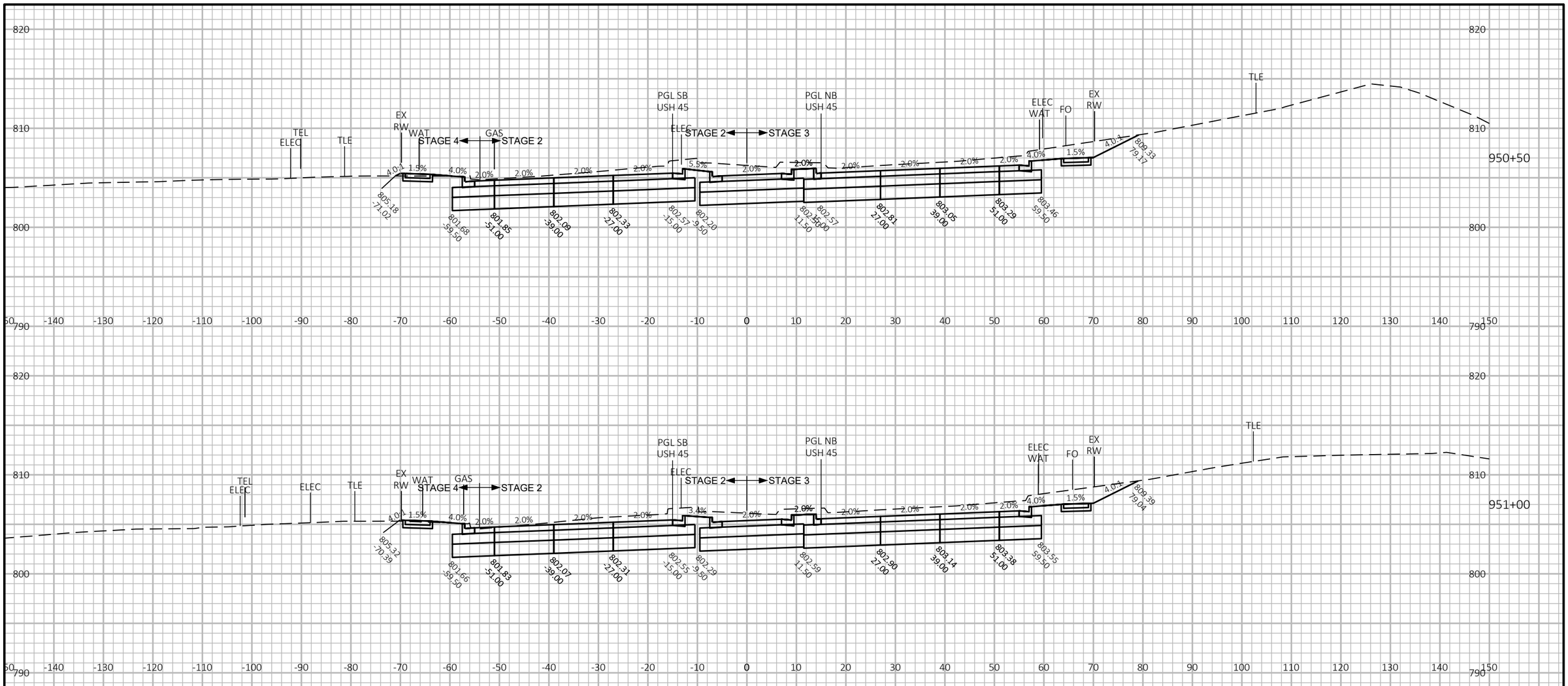
9

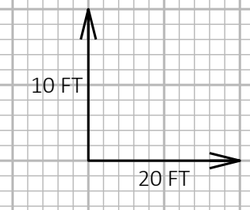
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 666	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 3-04-45

PLOT DATE : 4/29/2023 4:09 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

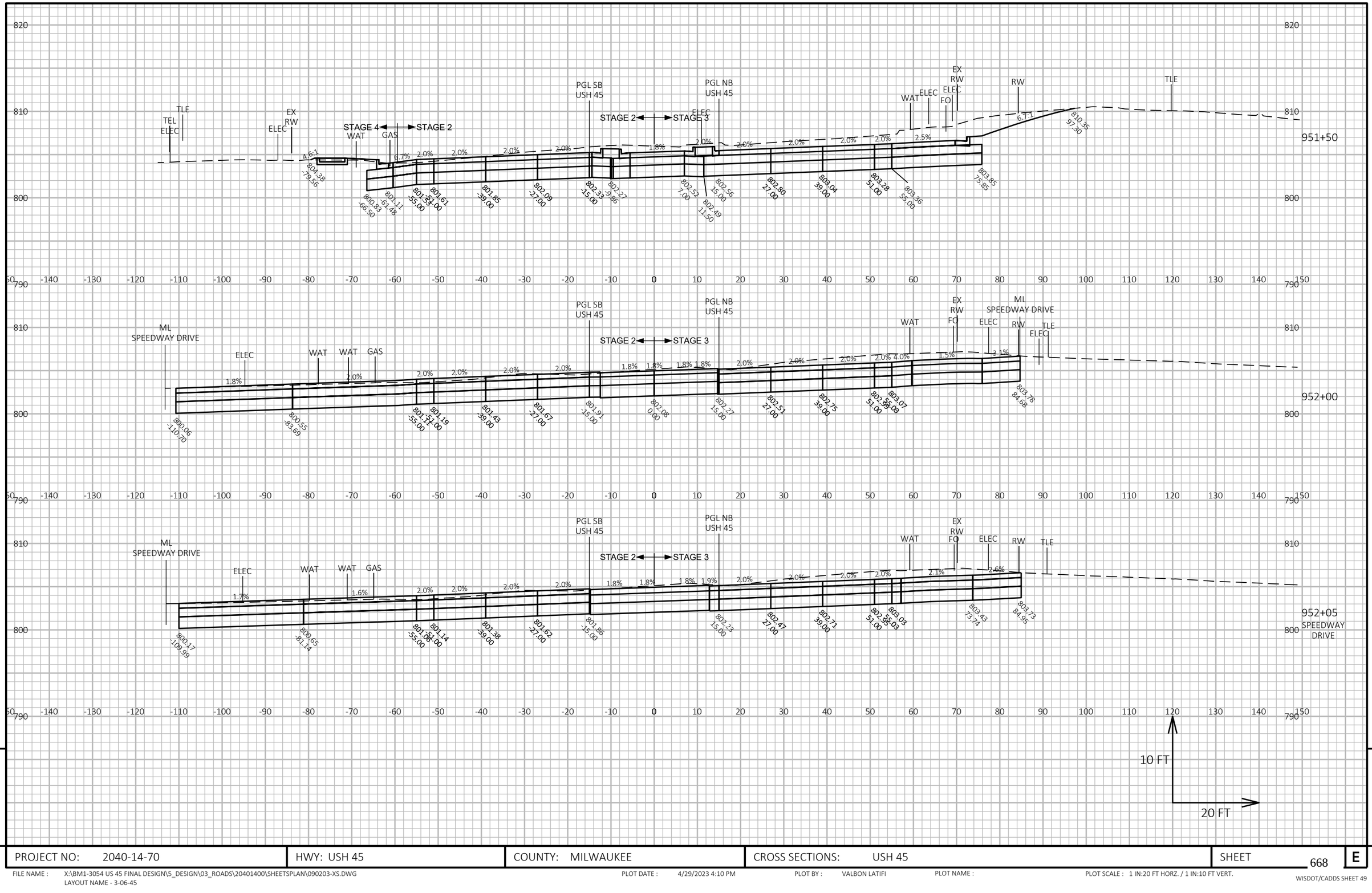
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 667	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 3-05-45

PLOT DATE : 4/29/2023 4:09 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

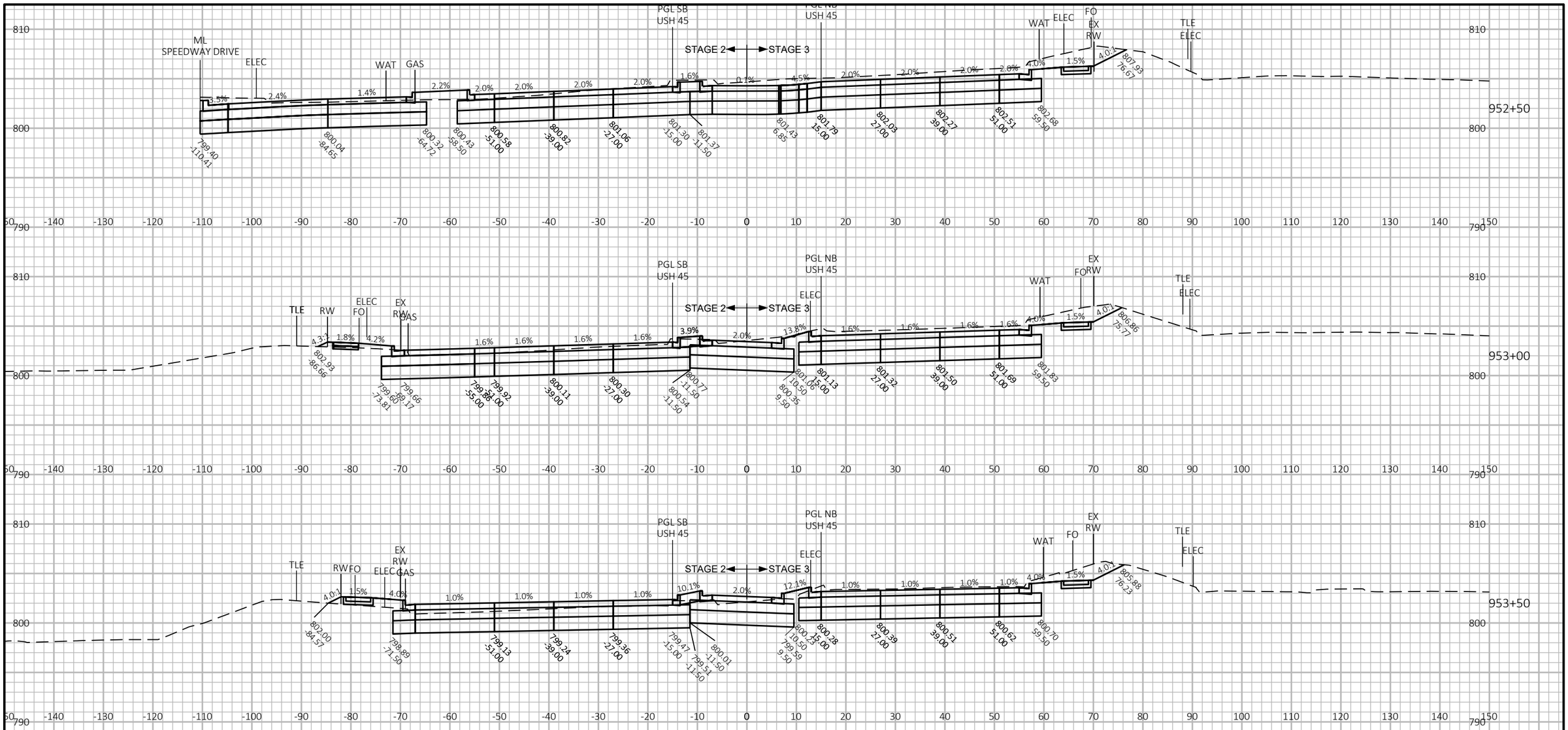
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 668	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 3-06-45

PLOT DATE : 4/29/2023 4:10 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

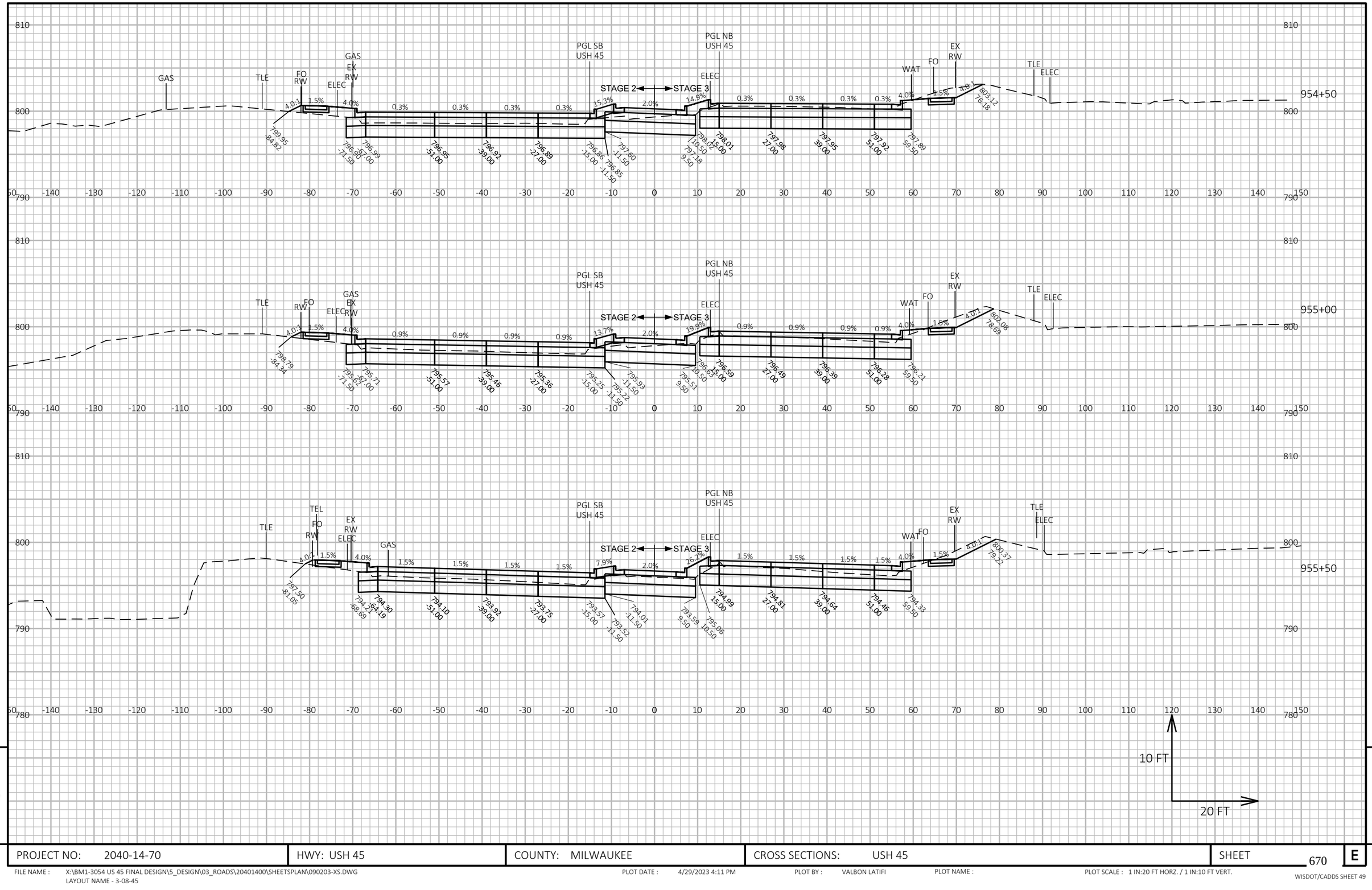
WISDOT/CADDS SHEET 49



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 669	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 3-07-45

PLOT DATE : 4/29/2023 4:11 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

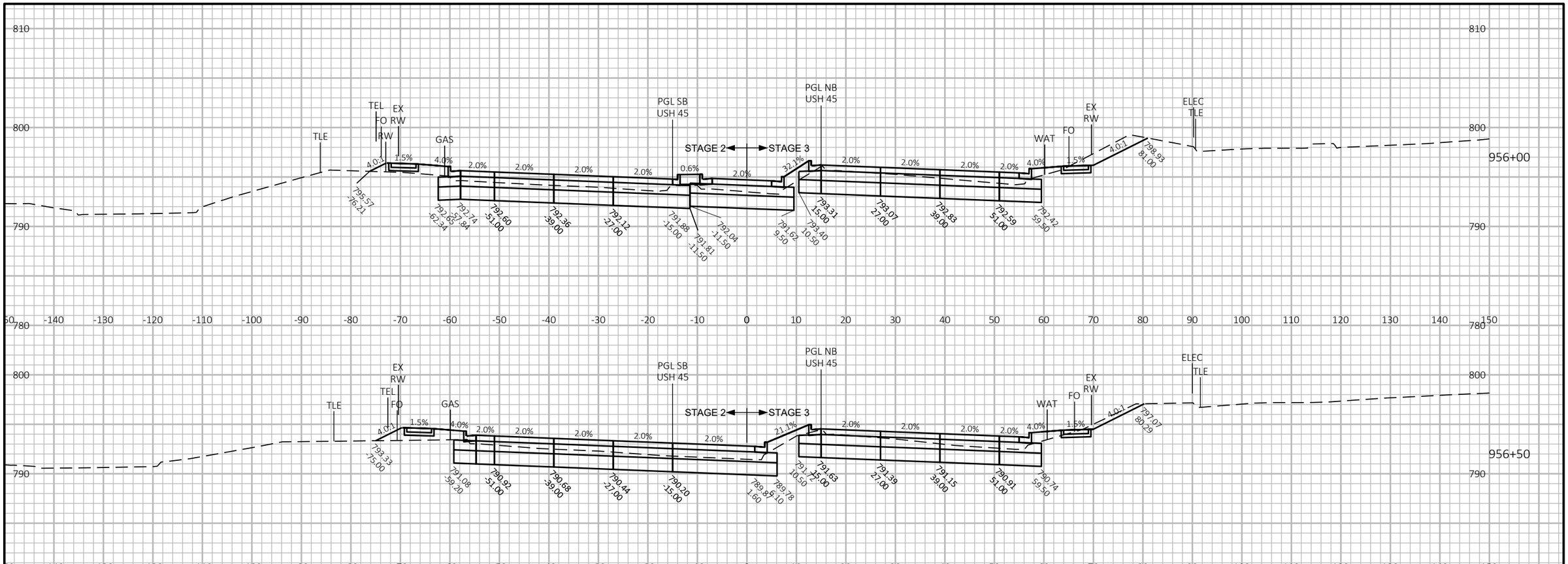


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 670 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 3-08-45

PLOT DATE : 4/29/2023 4:11 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 671	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 3-09-45

PLOT DATE : 4/29/2023 4:12 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

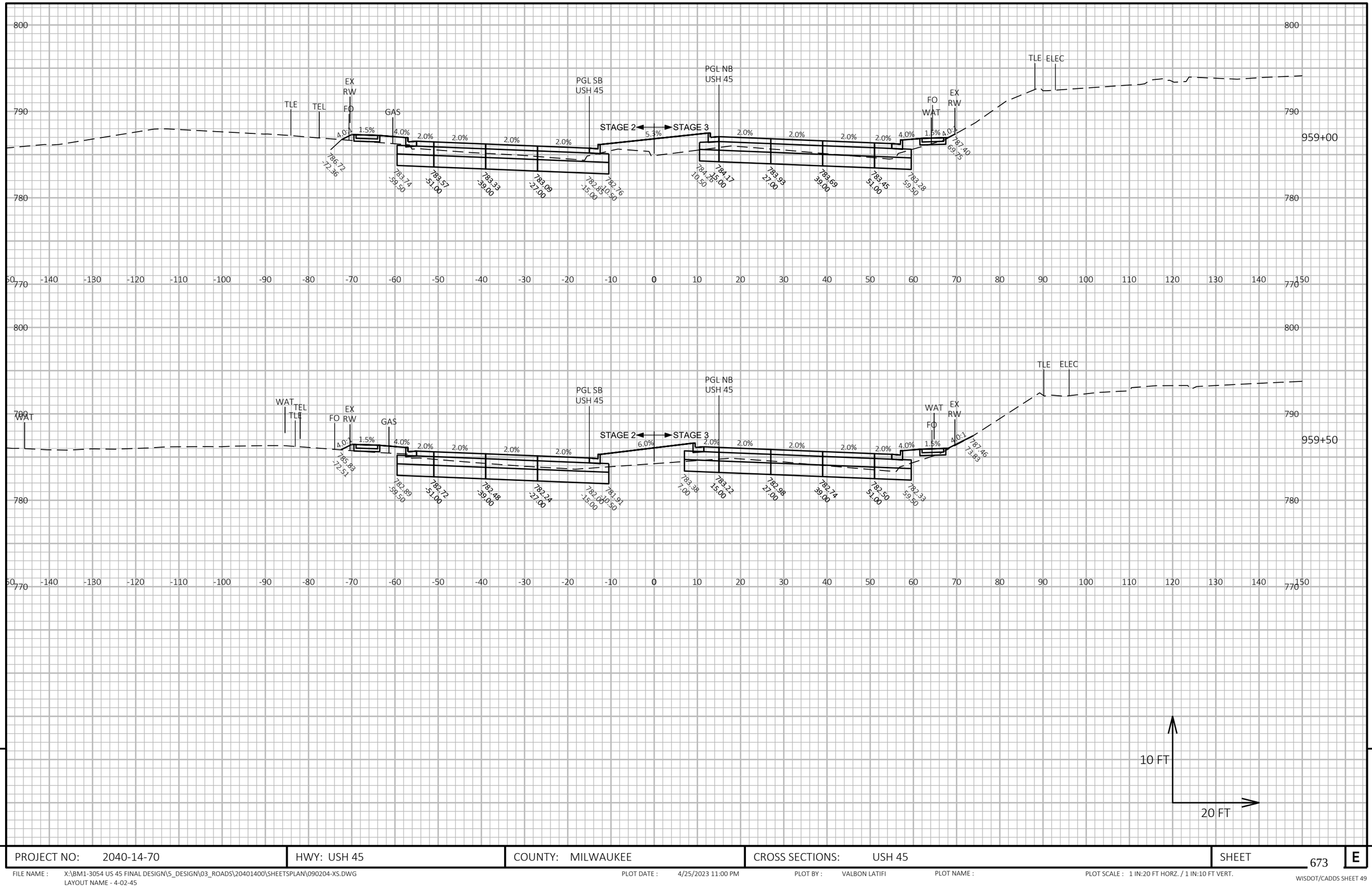


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 672 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 4-01-45

PLOT DATE : 4/25/2023 10:59 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

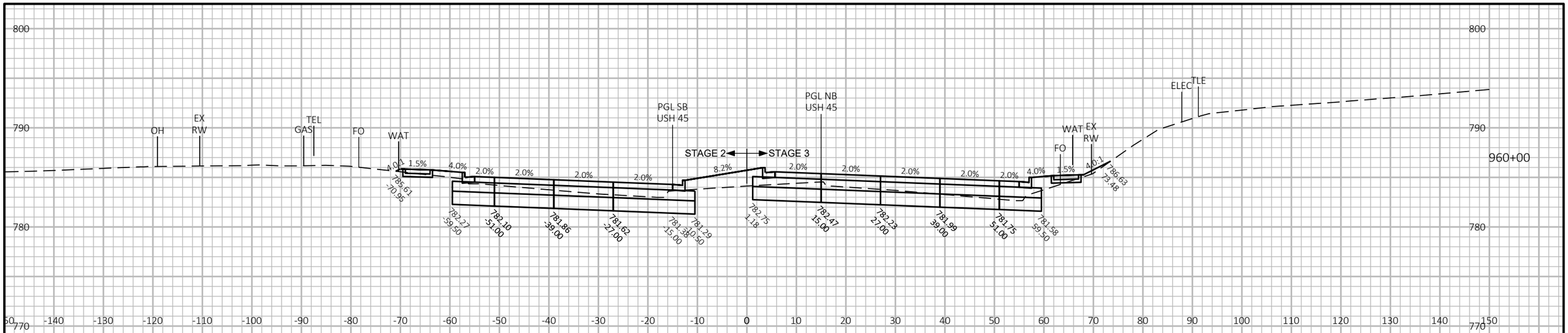
9

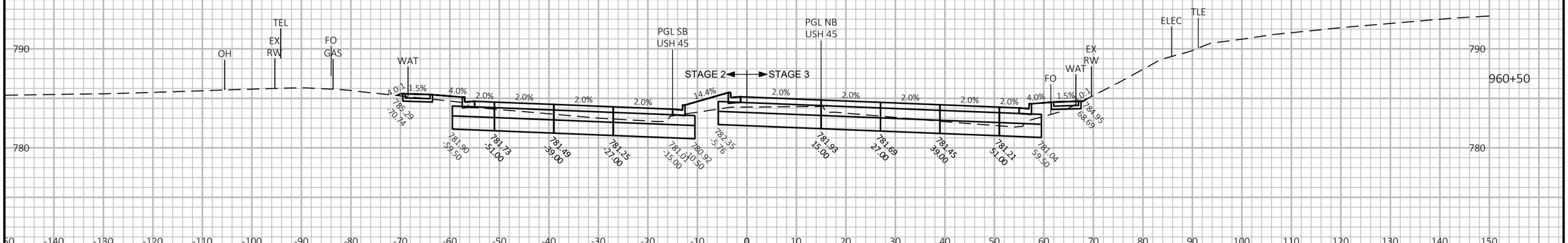
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 673	E

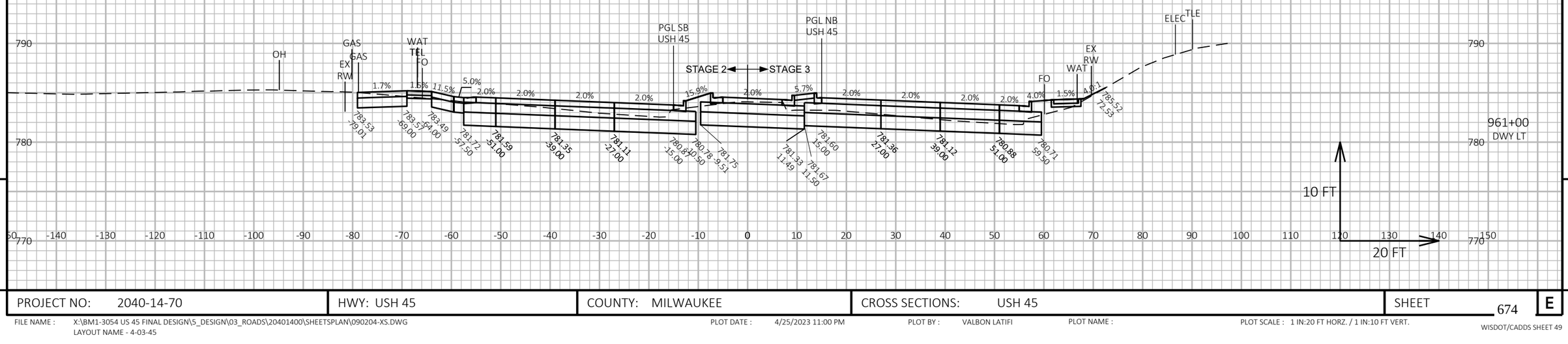
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 4-02-45

PLOT DATE : 4/25/2023 11:00 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





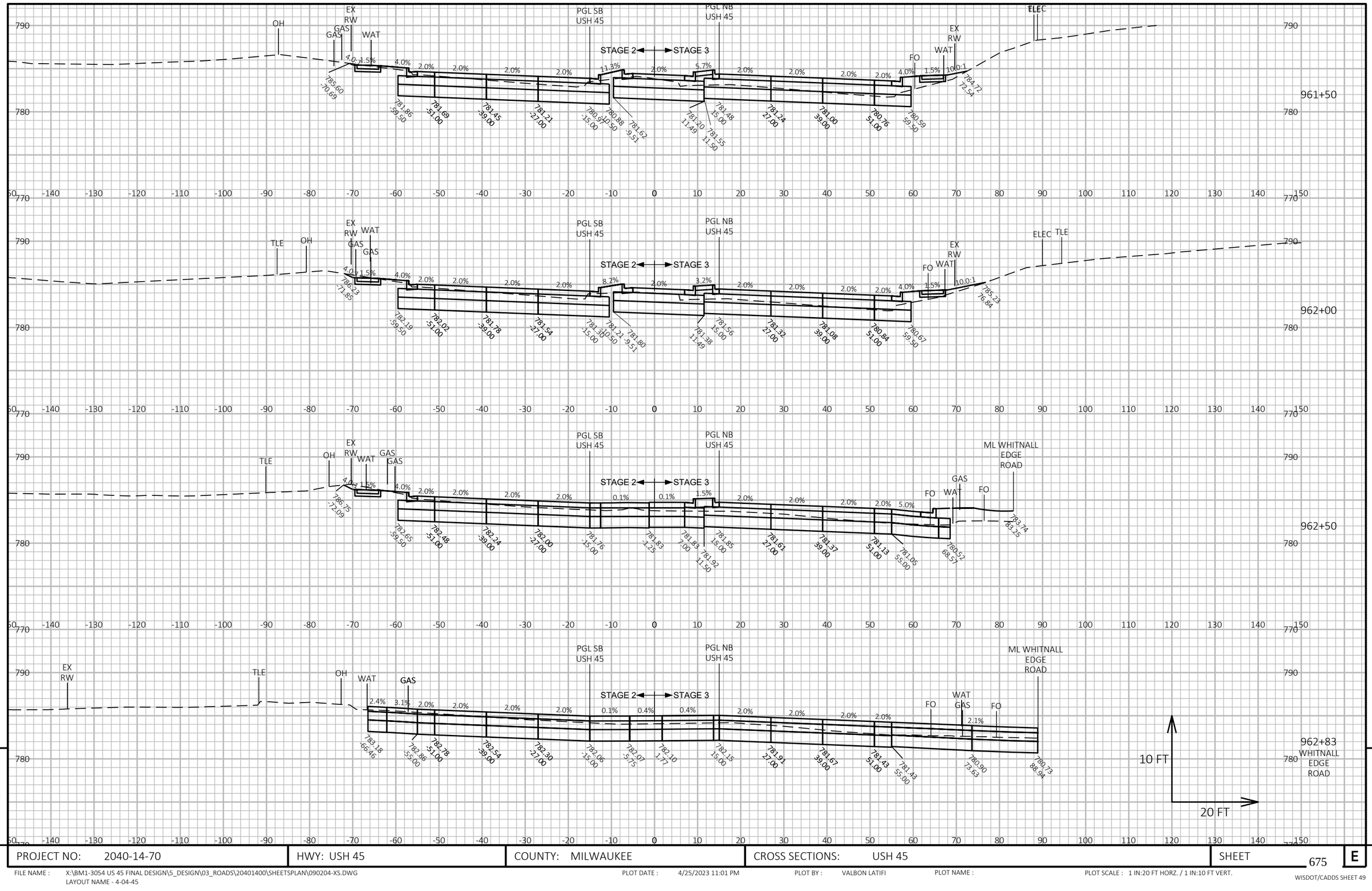


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 674	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 4-03-45

PLOT DATE : 4/25/2023 11:00 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

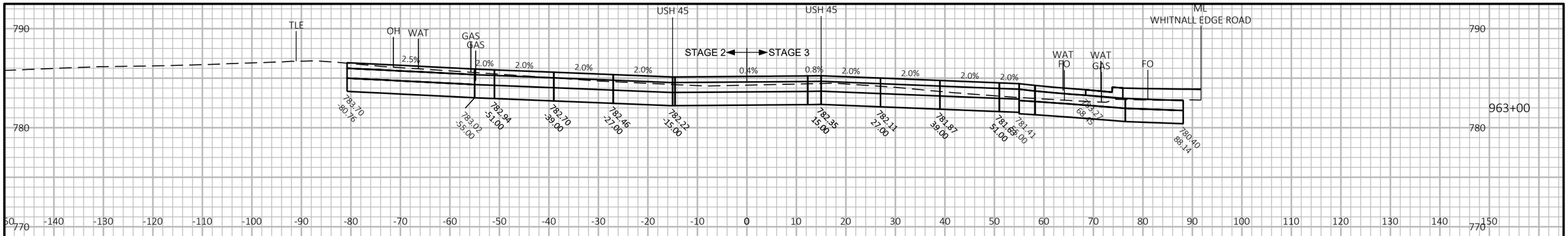
9

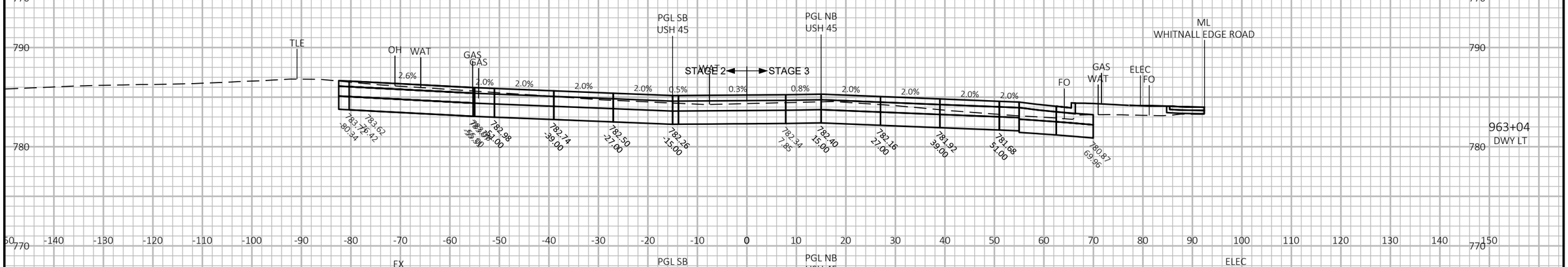
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 675	E

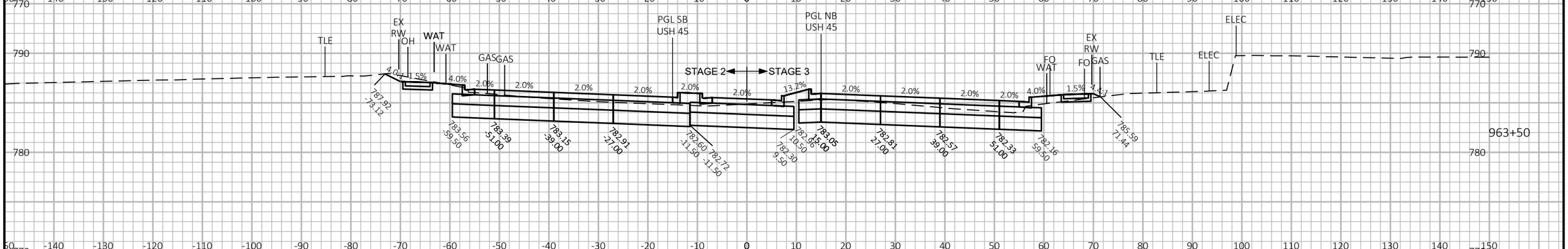
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 4-04-45

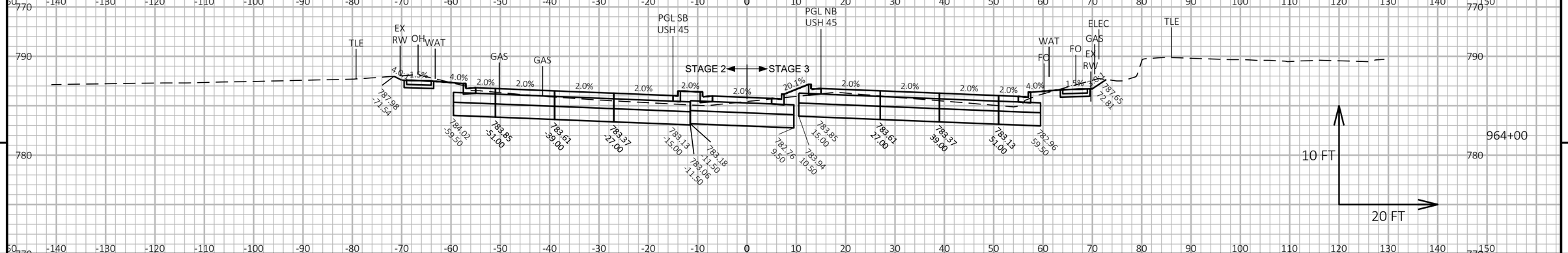
PLOT DATE : 4/25/2023 11:01 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







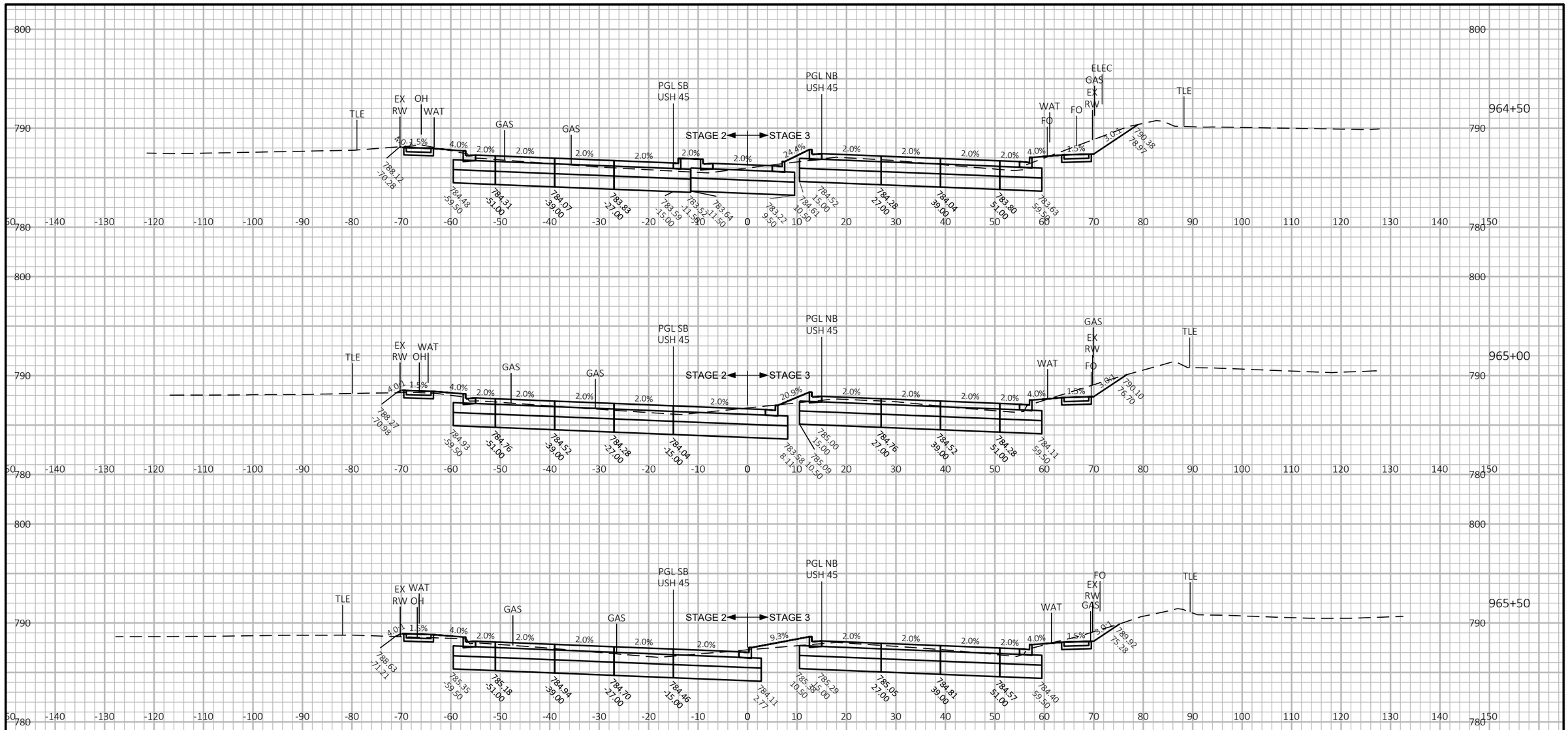


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 676	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 4-05-45

PLOT DATE : 4/25/2023 11:02 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

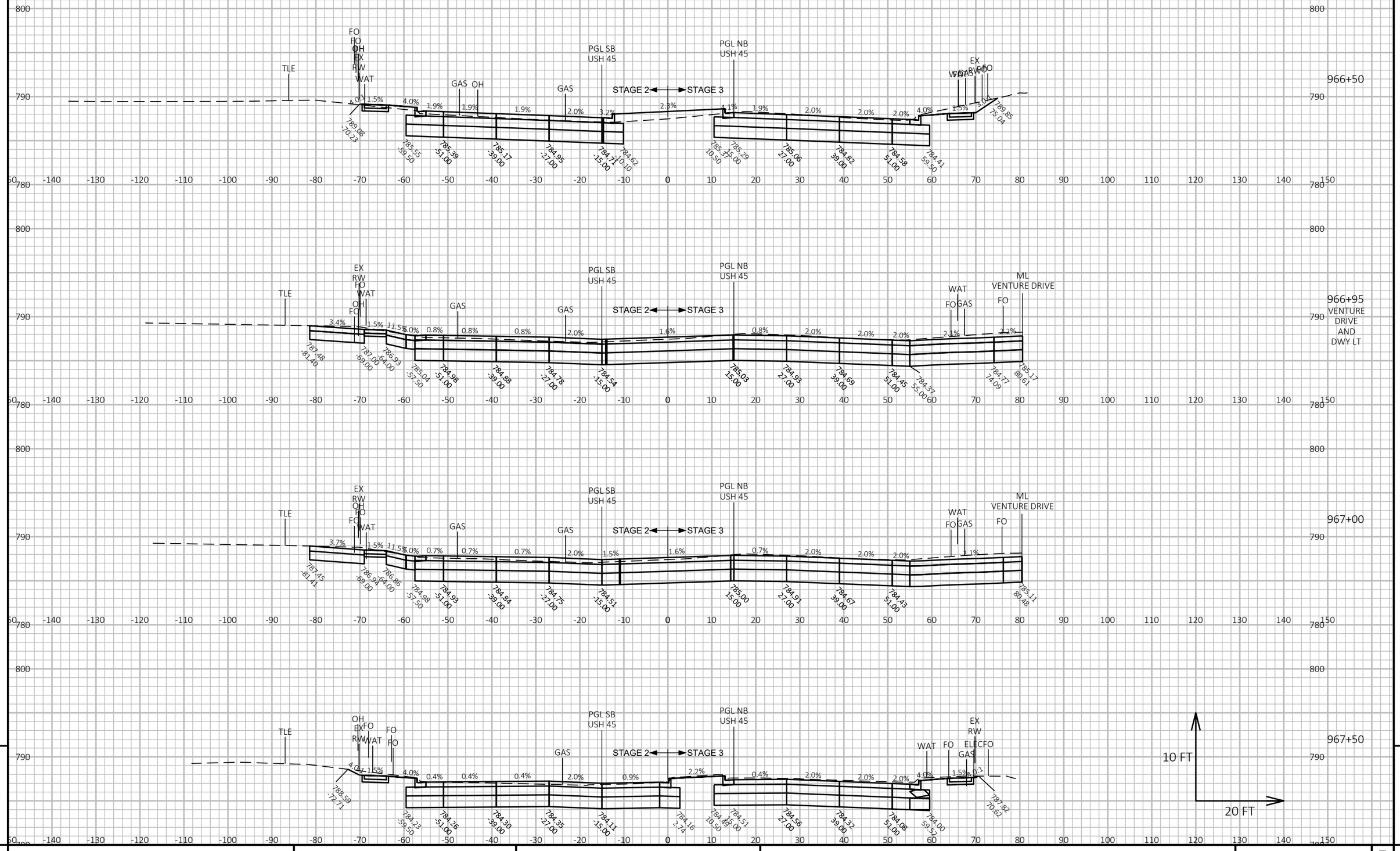
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 677	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 4-06-45

PLOT DATE : 4/25/2023 11:02 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

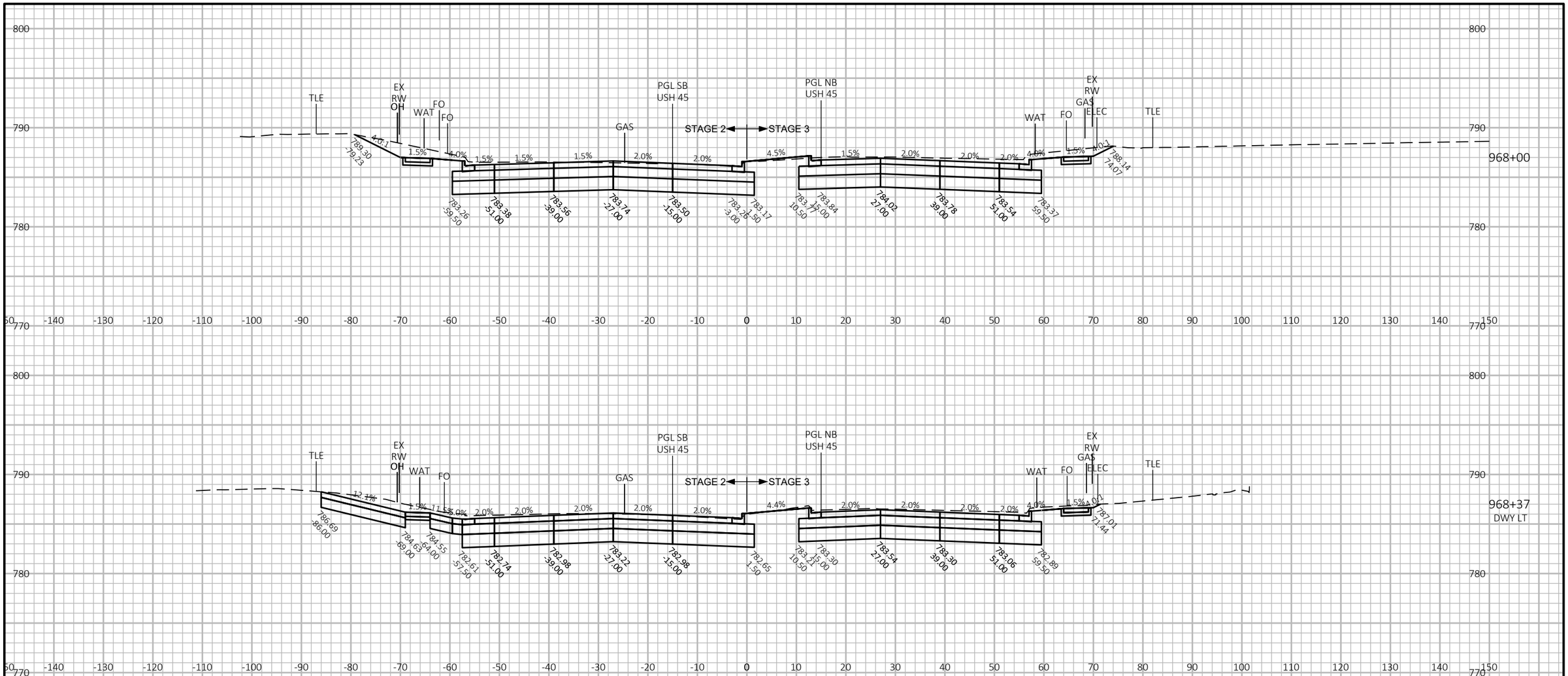


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 678 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 4-07-45

PLOT DATE : 4/25/2023 11:03 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



10 FT

20 FT

9

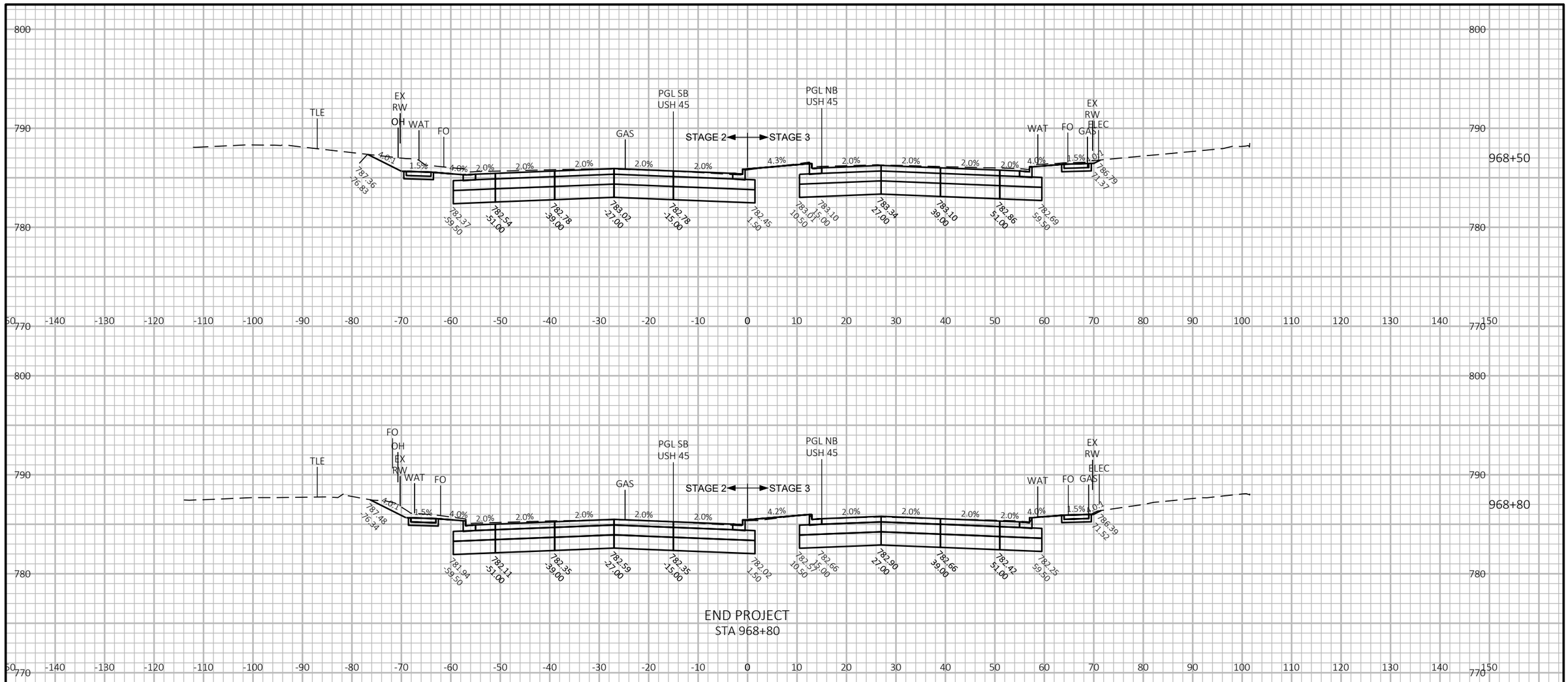
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 679	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\S_DESIGN\03_ROADS\20401400\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 4-08-45

PLOT DATE : 4/25/2023 11:03 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45	SHEET 680	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 4-09-45

PLOT DATE : 4/25/2023 11:04 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE(S) 2A/2B

EX
RW

RL
RAWSON AVE NW RAMP

4.0:1
4.0%
4.0%
4.0%
4.0%
12.3:1

775.54
-22.21
773.26
-19.98
772.46
0.00
771.66
20.00
772.69
27.44
772.16
36.70

RW
770.00
62.94

247+19

BEGIN RECONSTRUCTION
STA 247+19

DETENTION POND

790
780
770
760
750

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

GAS

RL
RAWSON AVE NW RAMP

4.0:1
3.6%
3.6%
3.6%
3.6%
15.5:1

776.83
-21.11
774.26
-19.98
773.54
0.00
772.82
20.00
773.42
34.53

RW
770.00
73.38

247+50

DETENTION POND

10 FT
20 FT

9

9

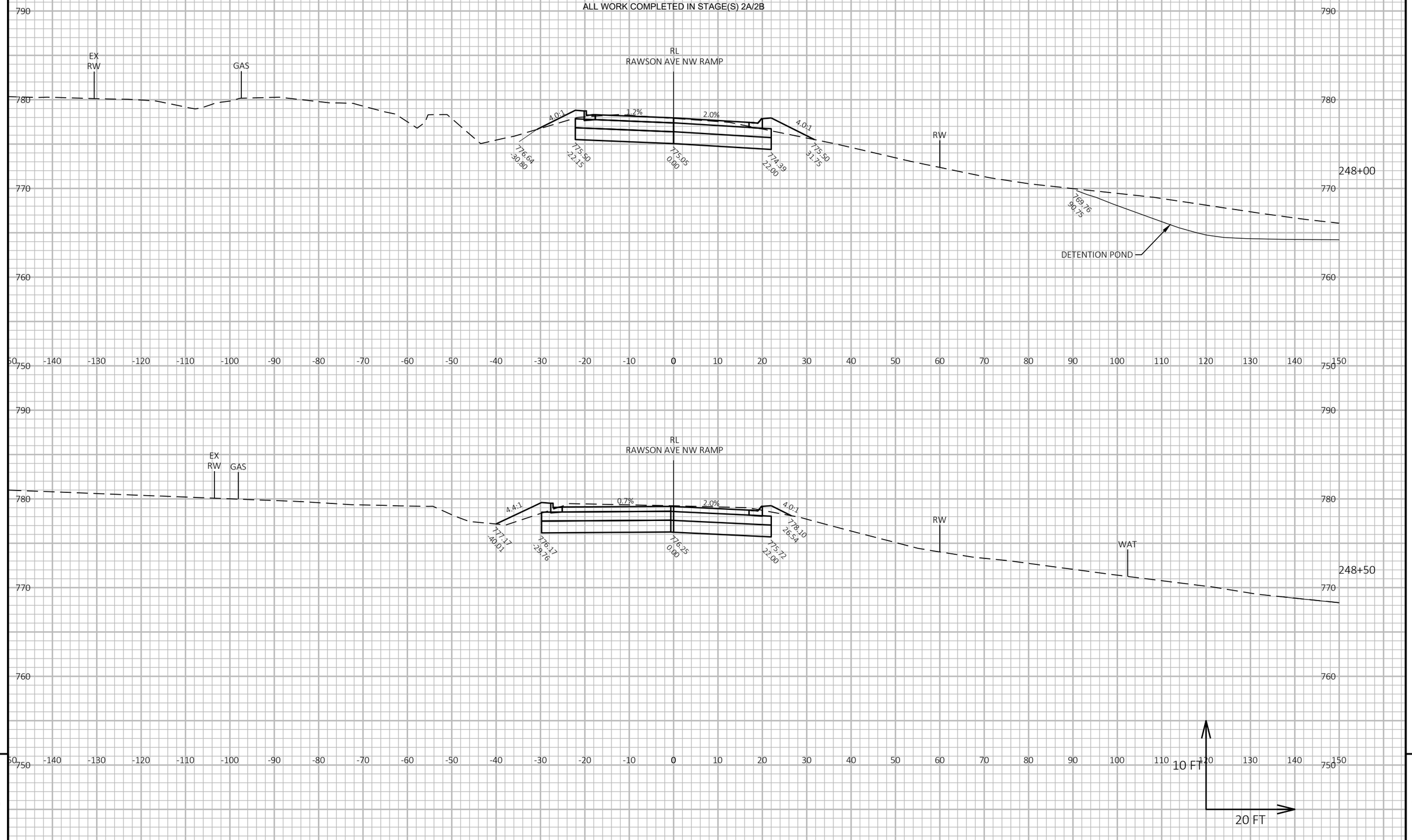
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: RAWSON AVE NW RAMP	SHEET 681	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090210-XS_RAWSON AVE NW RAMP.DWG
LAYOUT NAME - 01

PLOT DATE : 4/23/2023 6:35 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE(S) 2A/2B



9

9

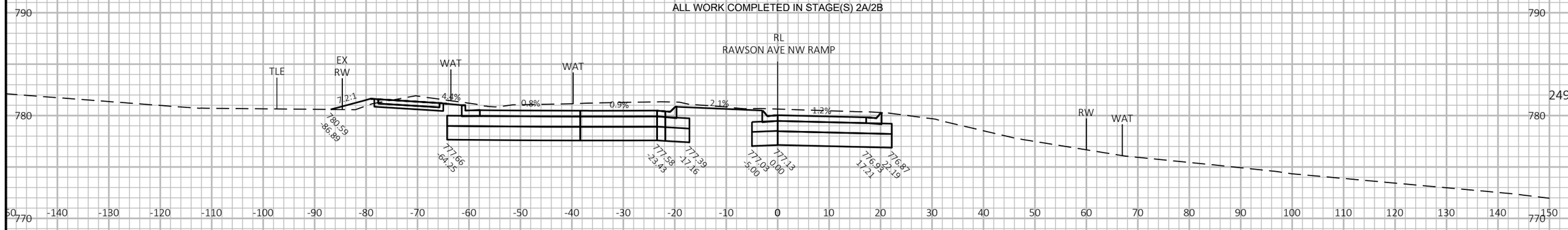
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: RAWSON AVE NW RAMP	SHEET 682	E

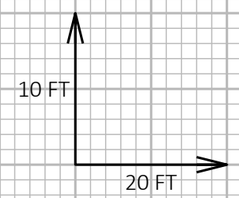
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090210-XS_RAWSON AVE NW RAMP.DWG
LAYOUT NAME - 02

PLOT DATE : 4/23/2023 6:35 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE(S) 2A/2B





9

9

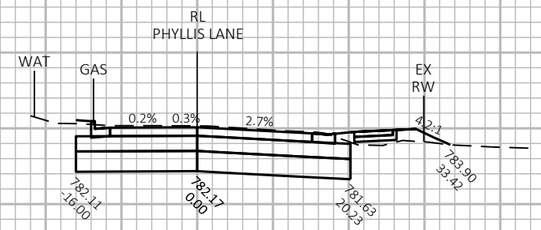
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: RAWSON AVE NW RAMP	SHEET 683	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090210-XS_RAWSON AVE NW RAMP.DWG
LAYOUT NAME - 03

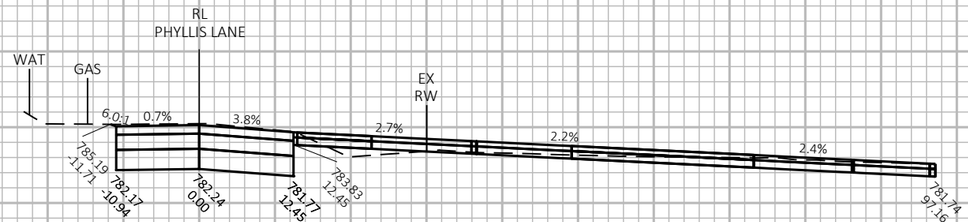
PLOT DATE : 4/23/2023 6:35 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

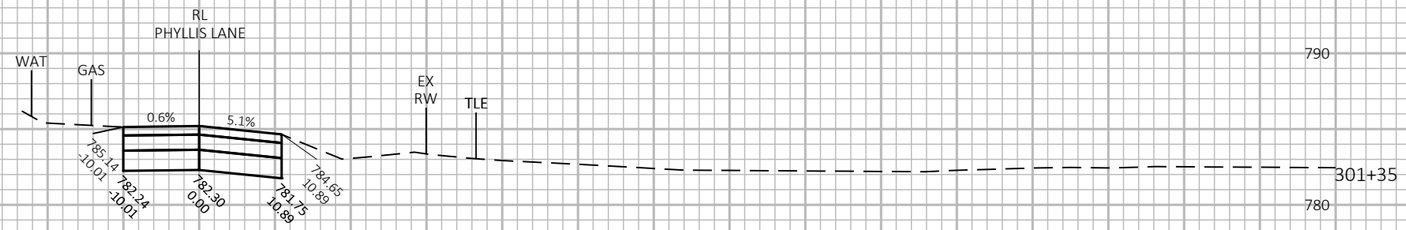
ALL WORK COMPLETED IN STAGE 3



301+00

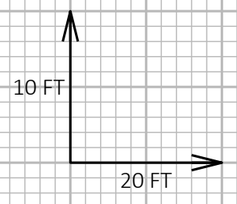


301+18
DWY RT



301+35

END CONSTRUCTION
STA 301+35



9

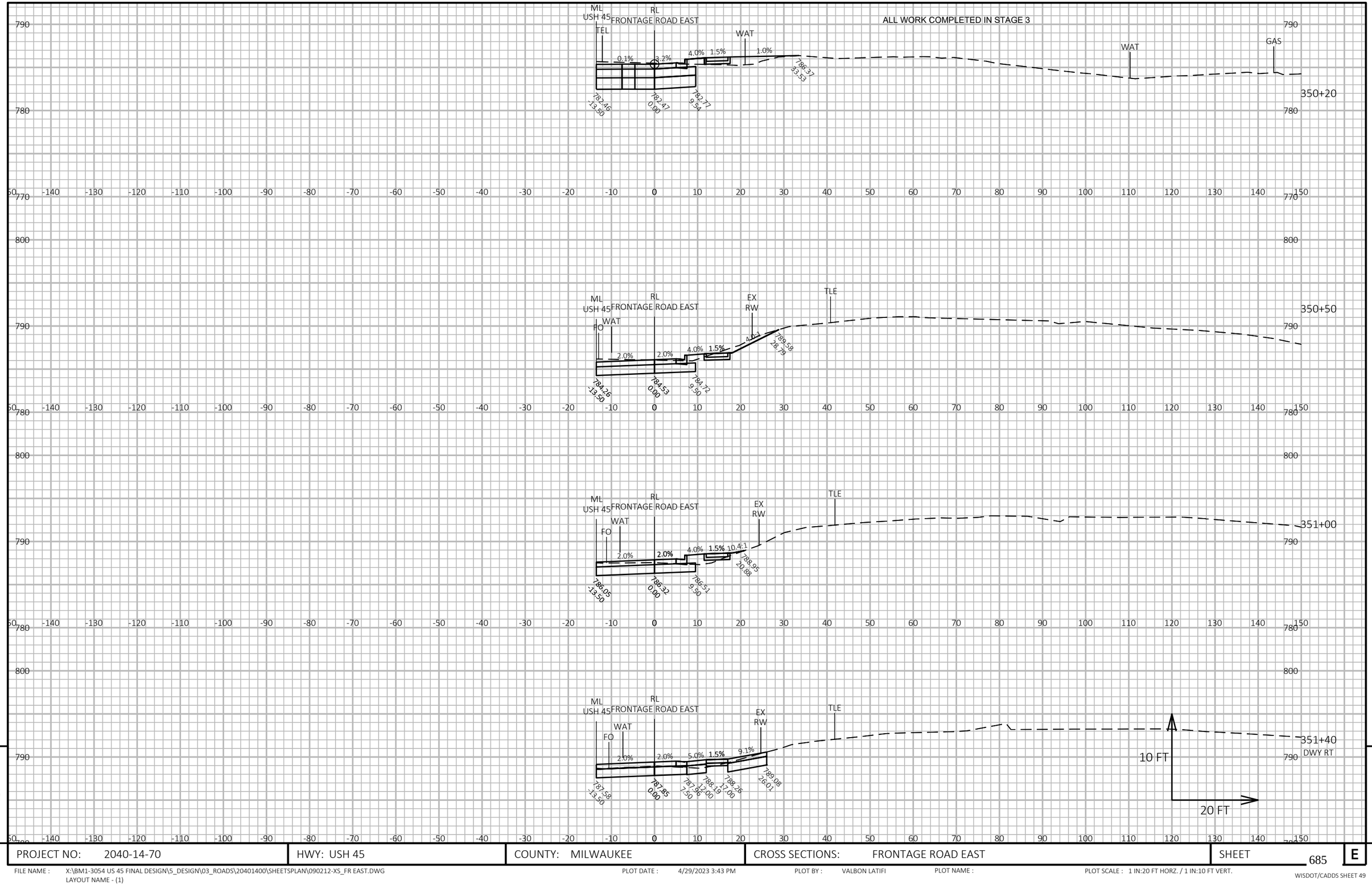
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: PHYLLIS LANE	SHEET 684	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090211-XS_PHYLLIS LN.DWG
LAYOUT NAME - 1

PLOT DATE : 4/23/2023 2:05 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

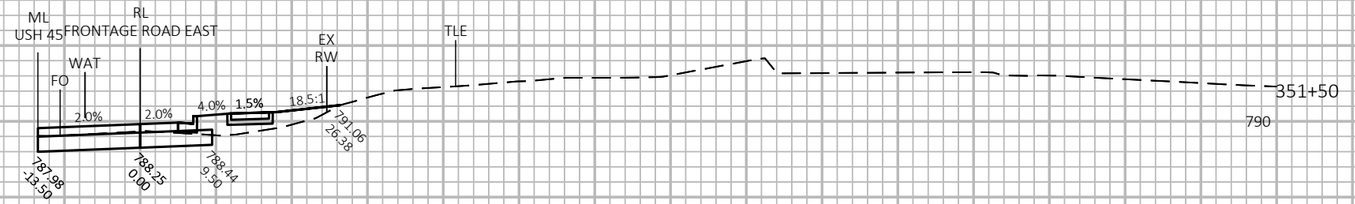
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD EAST	SHEET 685	E

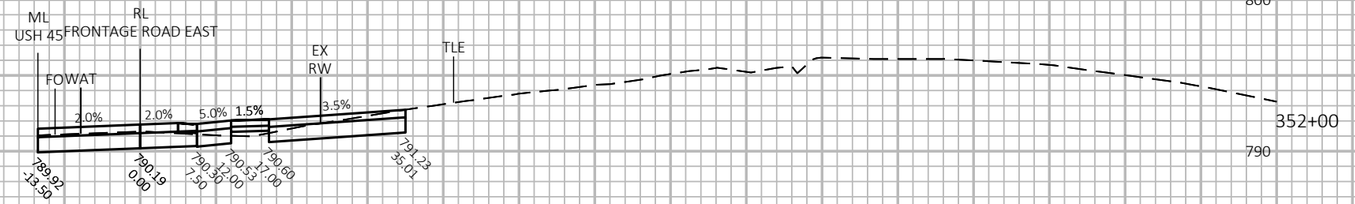
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090212-XS_FR EAST.DWG
LAYOUT NAME - (1)

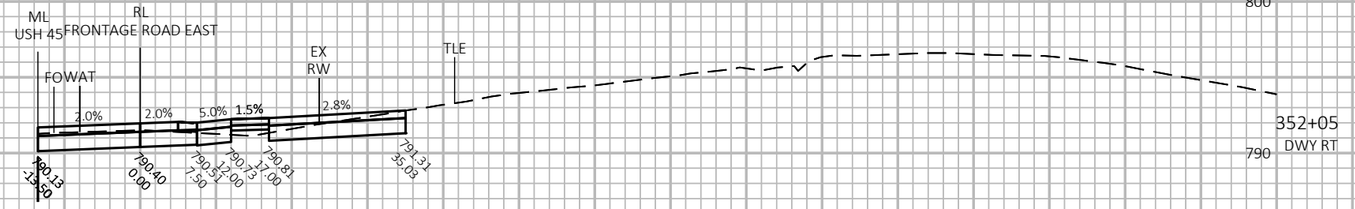
PLOT DATE : 4/29/2023 3:43 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

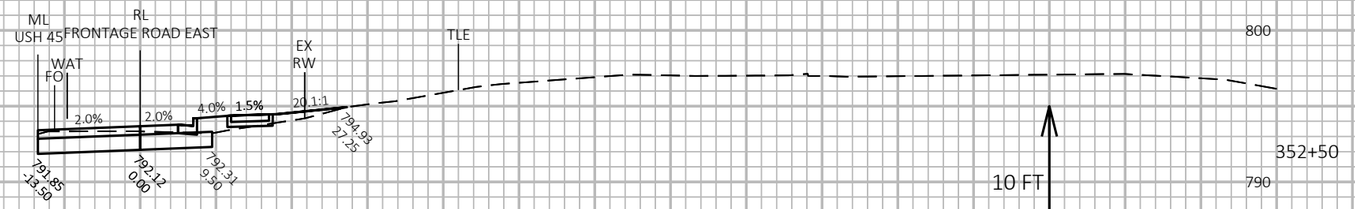
WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 3









9

9

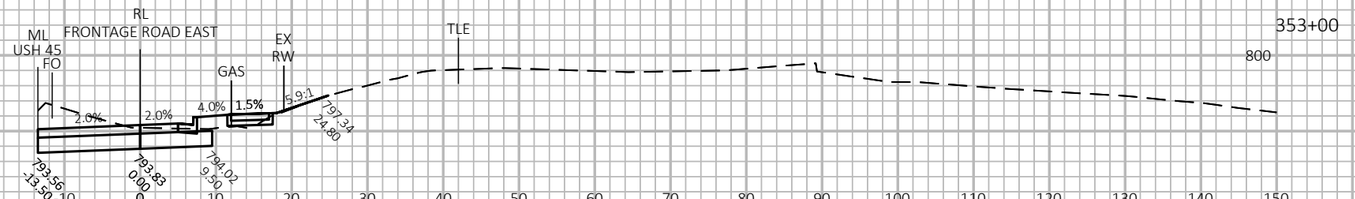
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD EAST	SHEET 686	E

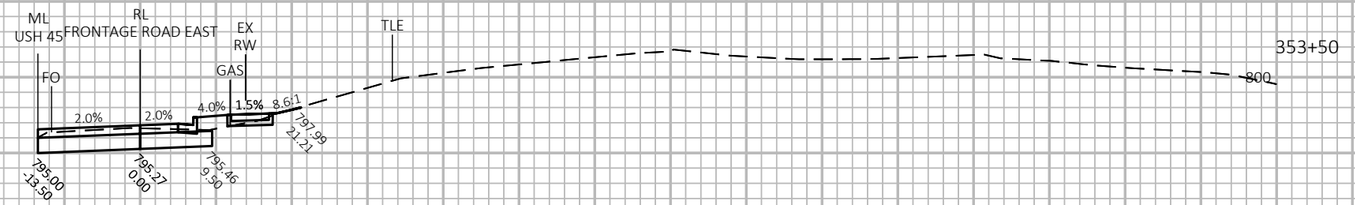
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090212-XS_FR EAST.DWG
LAYOUT NAME - (2)

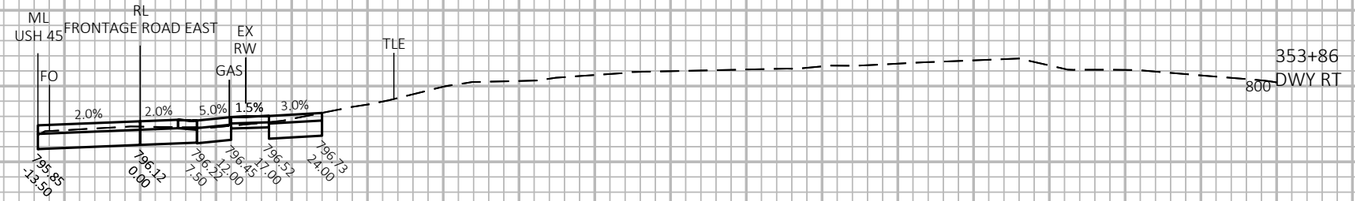
PLOT DATE : 4/29/2023 3:43 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

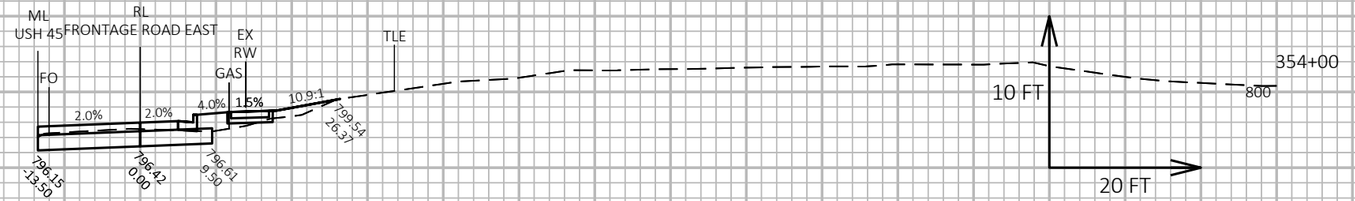
WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 3









9

9

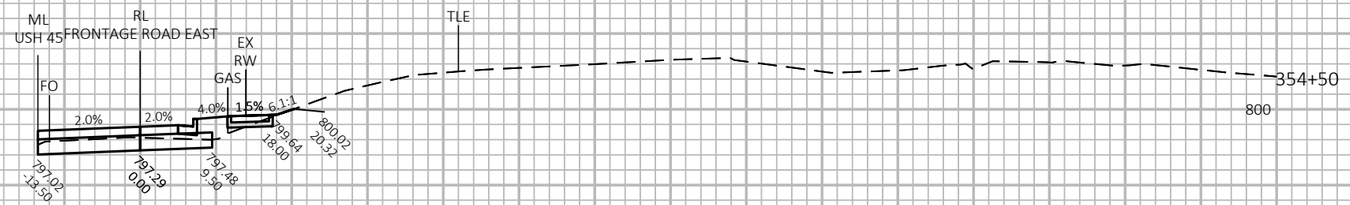
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD EAST	SHEET 687	E

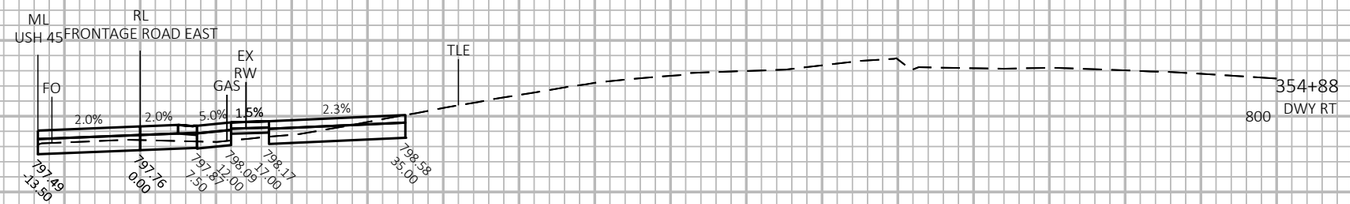
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090212-XS_FR EAST.DWG
LAYOUT NAME - (3)

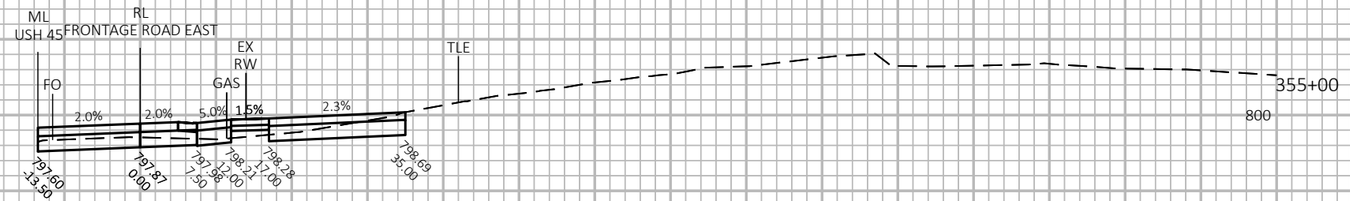
PLOT DATE : 4/29/2023 3:43 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

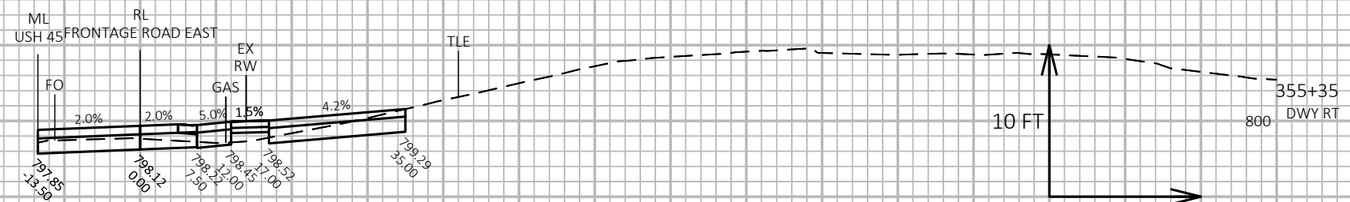
WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 3









9

9

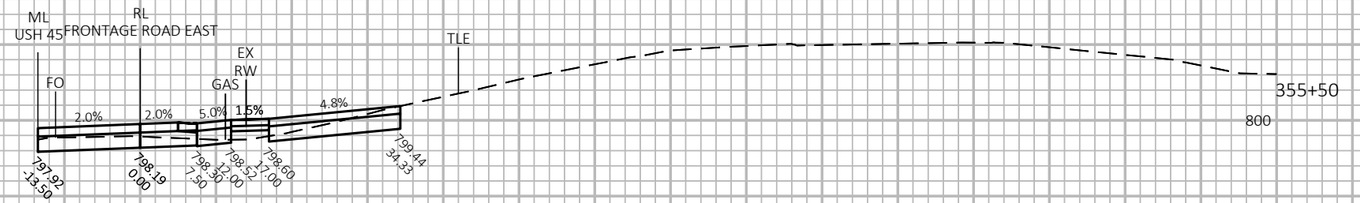
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD EAST	SHEET 688	E

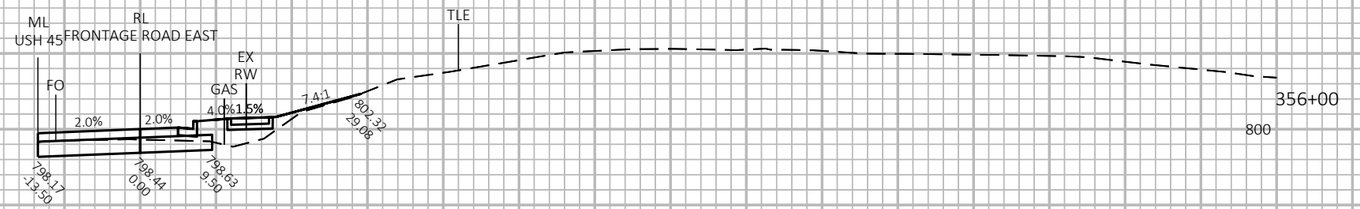
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090212-XS_FR EAST.DWG
LAYOUT NAME - (4)

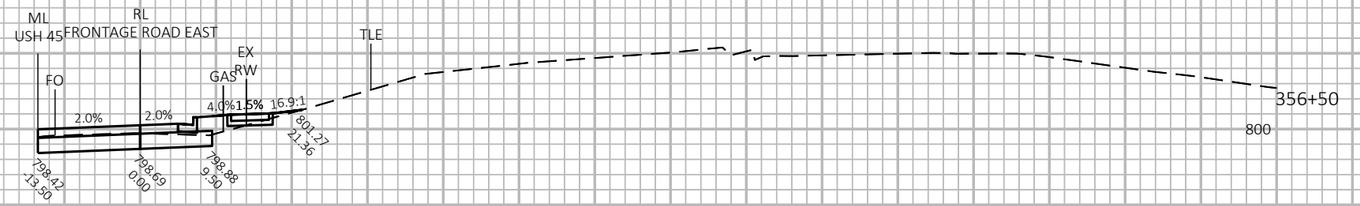
PLOT DATE : 4/29/2023 3:44 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 3









9

9

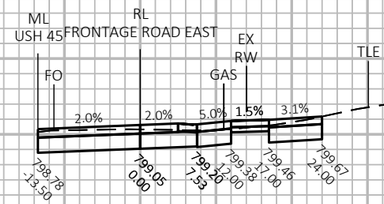
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD EAST	SHEET 689	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090212-XS_FR EAST.DWG
LAYOUT NAME - (5)

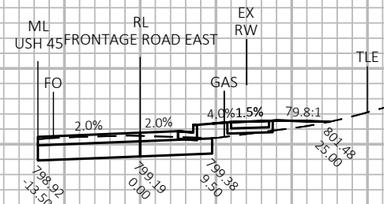
PLOT DATE : 4/29/2023 3:44 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

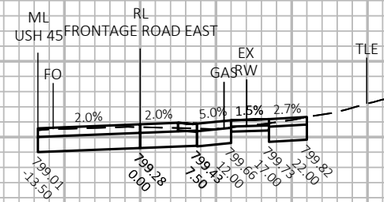
ALL WORK COMPLETED IN STAGE 3



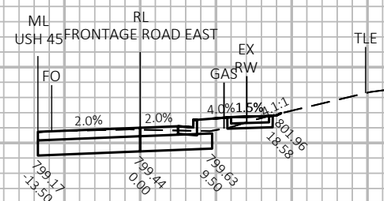
357+21
DWY RT



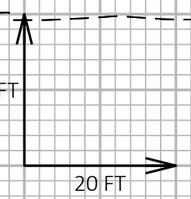
357+50



357+68
DWY RT



358+00



9

9

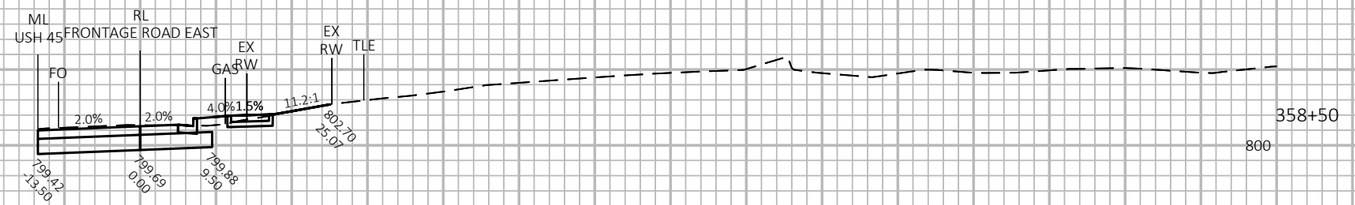
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD EAST	SHEET 690	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090212-XS_FR EAST.DWG
LAYOUT NAME - (6)

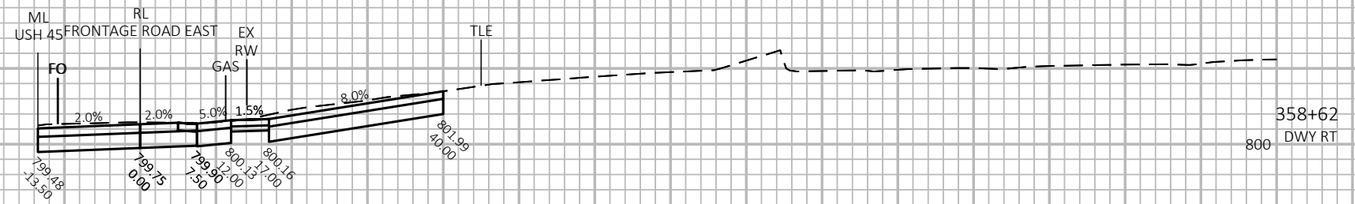
PLOT DATE : 4/29/2023 3:45 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

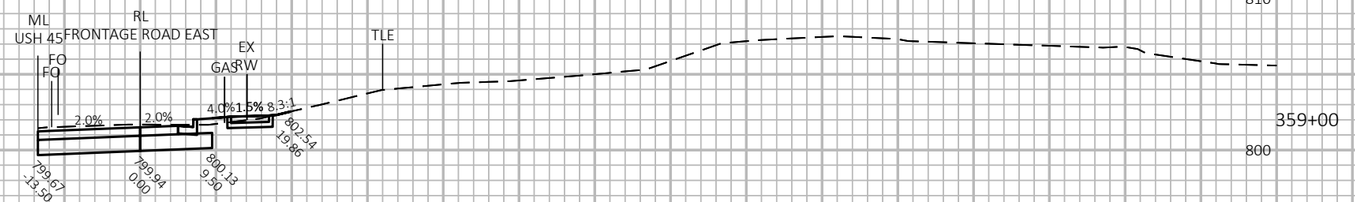
ALL WORK COMPLETED IN STAGE 3



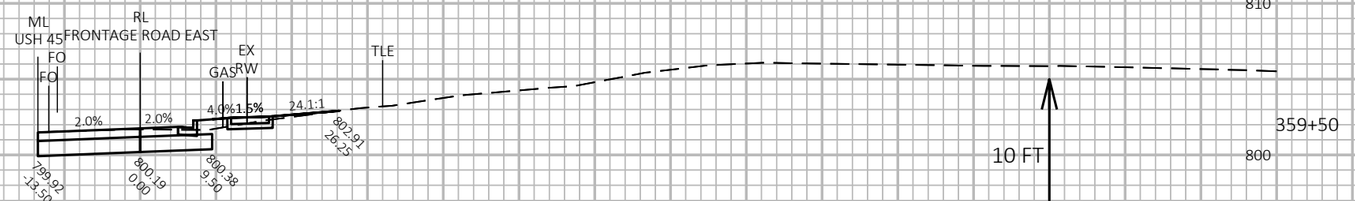
358+50



358+62
DWY RT



359+00



359+50

10 FT

20 FT

9

9

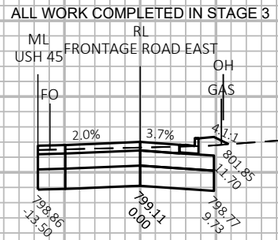
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD EAST	SHEET 691	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090212-XS_FR EAST.DWG
LAYOUT NAME - (7)

PLOT DATE : 4/29/2023 3:45 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 3



360+00

810 800 790

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

10 FT

20 FT

9

9

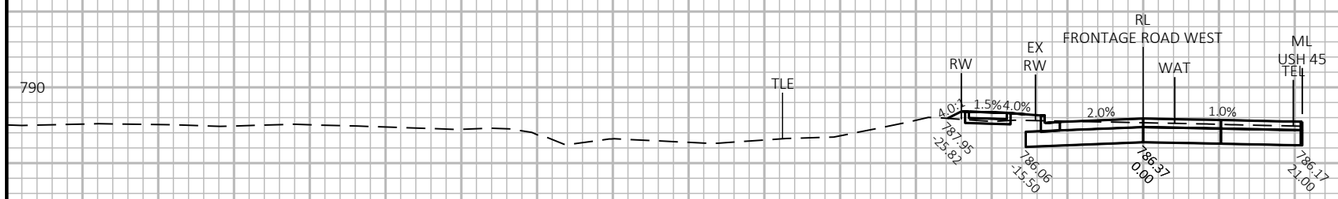
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD EAST	SHEET 692	E

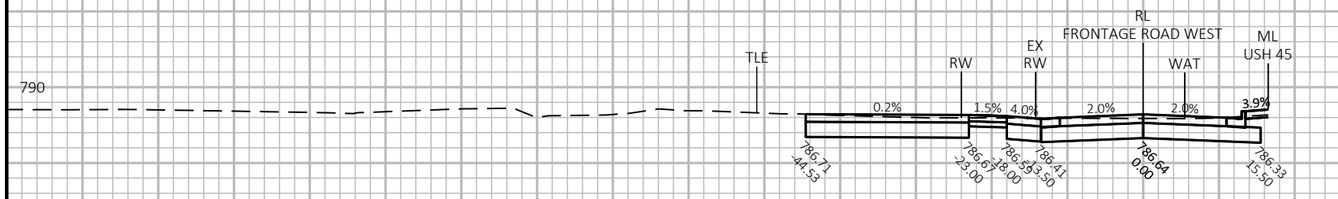
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090212-XS_FR EAST.DWG
LAYOUT NAME - (8)

PLOT DATE : 4/29/2023 3:45 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

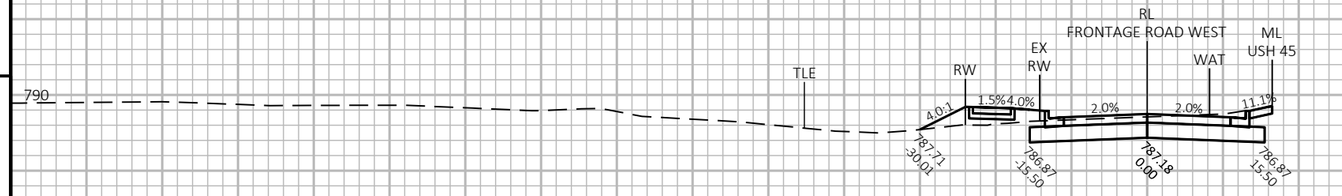
WISDOT/CADDS SHEET 49

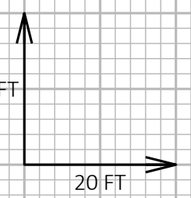
ALL WORK COMPLETED IN STAGE 2











9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD WEST	SHEET 693	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090213-XS_FR WEST.DWG
LAYOUT NAME - (1)

PLOT DATE : 4/23/2023 1:16 PM

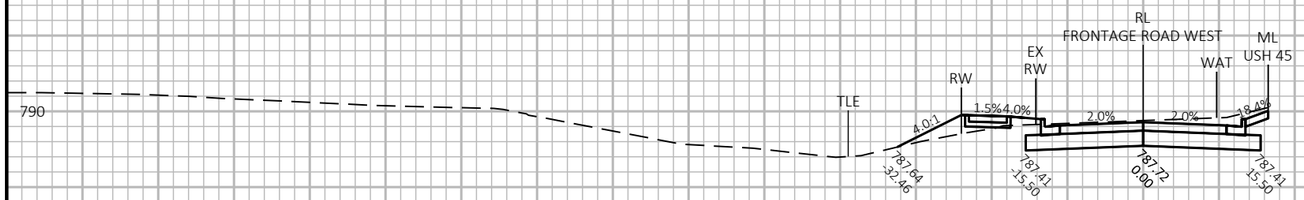
PLOT BY : VALBON LATIFI

PLOT NAME :

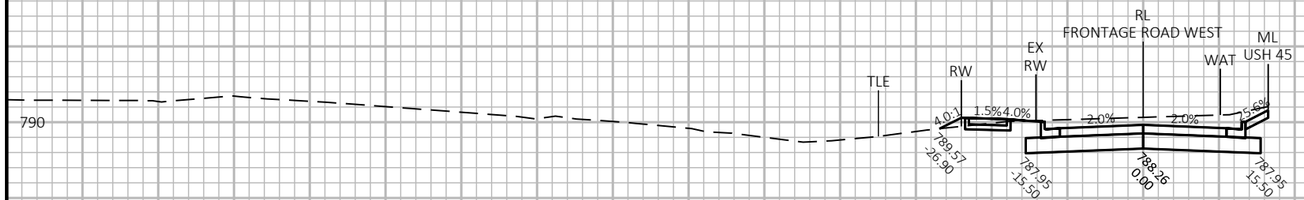
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

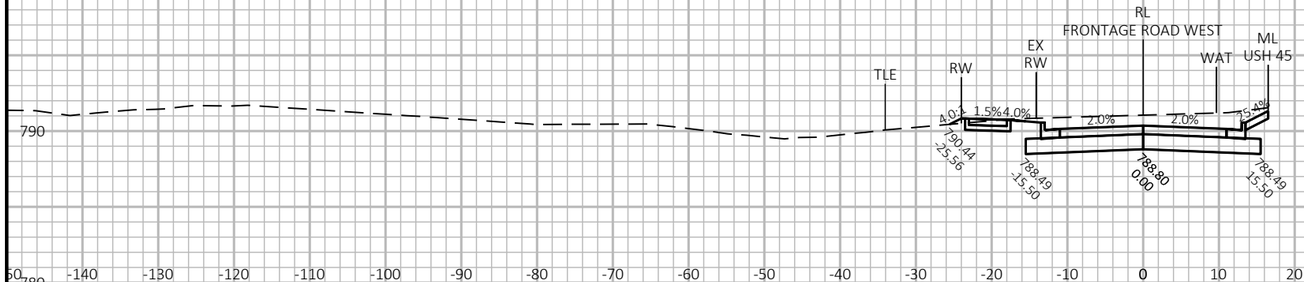
ALL WORK COMPLETED IN STAGE 2



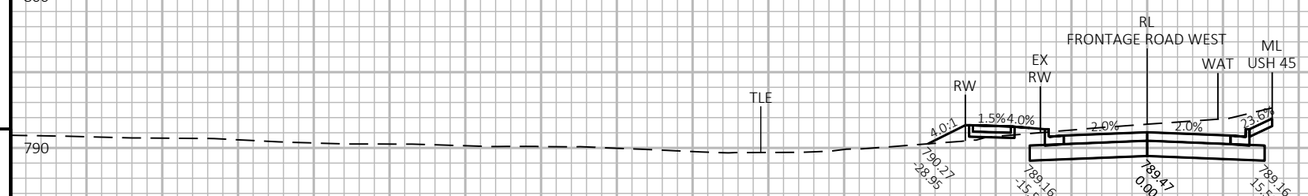
327+00



327+50



328+00



328+50

10 FT

20 FT

9

9

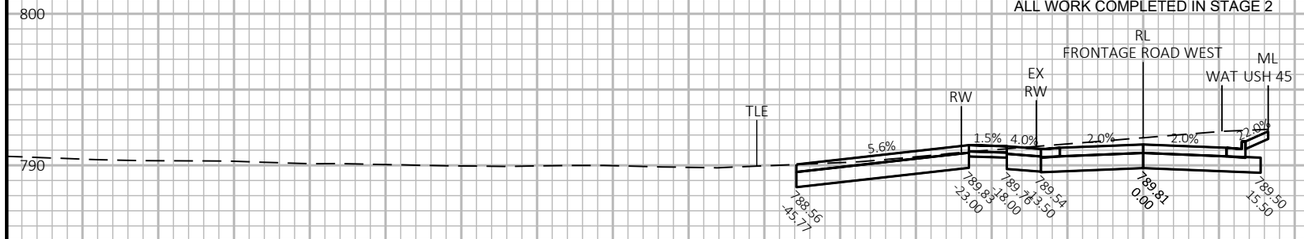
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD WEST	SHEET 694	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090213-XS_FR WEST.DWG
LAYOUT NAME - (2)

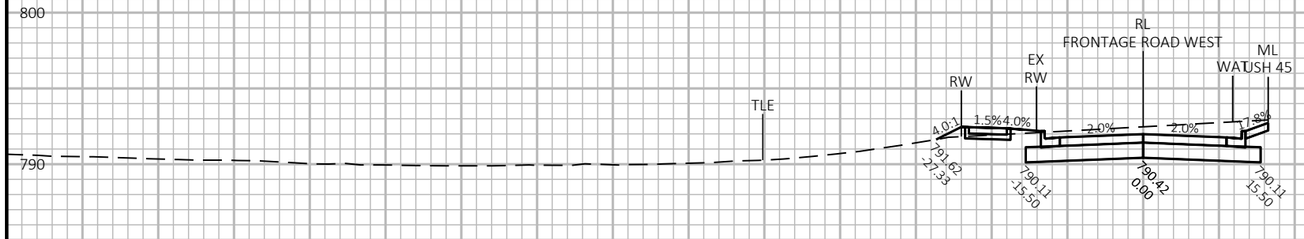
PLOT DATE : 4/23/2023 1:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

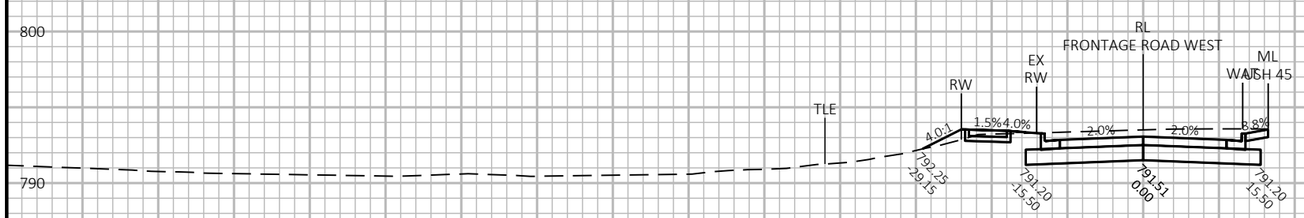
ALL WORK COMPLETED IN STAGE 2



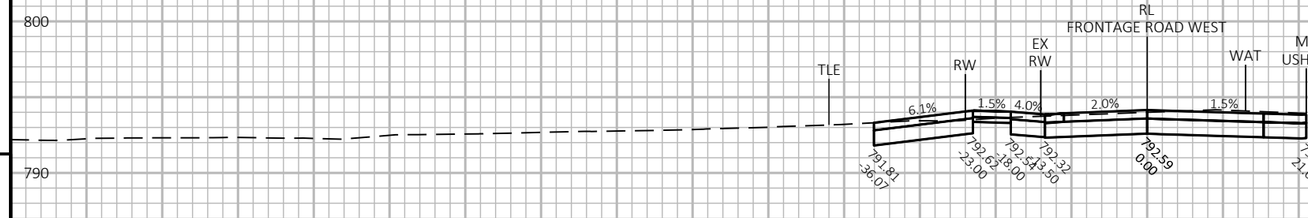
328+69
DWY LT



329+00



329+50



330+00

10 FT

20 FT

9

9

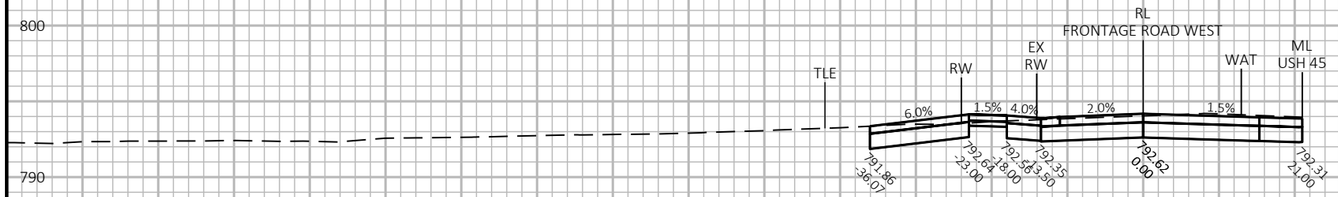
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD WEST	SHEET 695	E

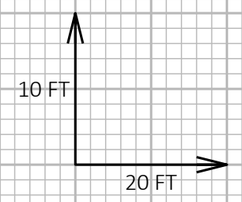
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090213-XS_FR WEST.DWG
LAYOUT NAME - (3)

PLOT DATE : 4/23/2023 1:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 2





9

9

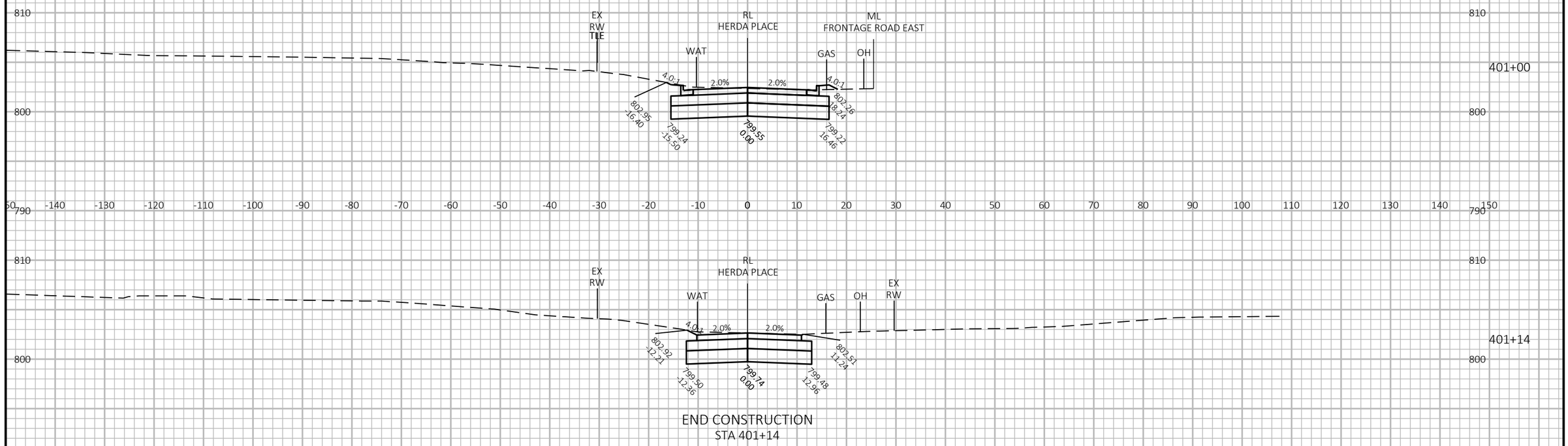
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: FRONTAGE ROAD WEST	SHEET 696	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090213-XS_FR WEST.DWG
LAYOUT NAME - (4)

PLOT DATE : 4/23/2023 1:17 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 3



END CONSTRUCTION
STA 401+14

10 FT
20 FT

9

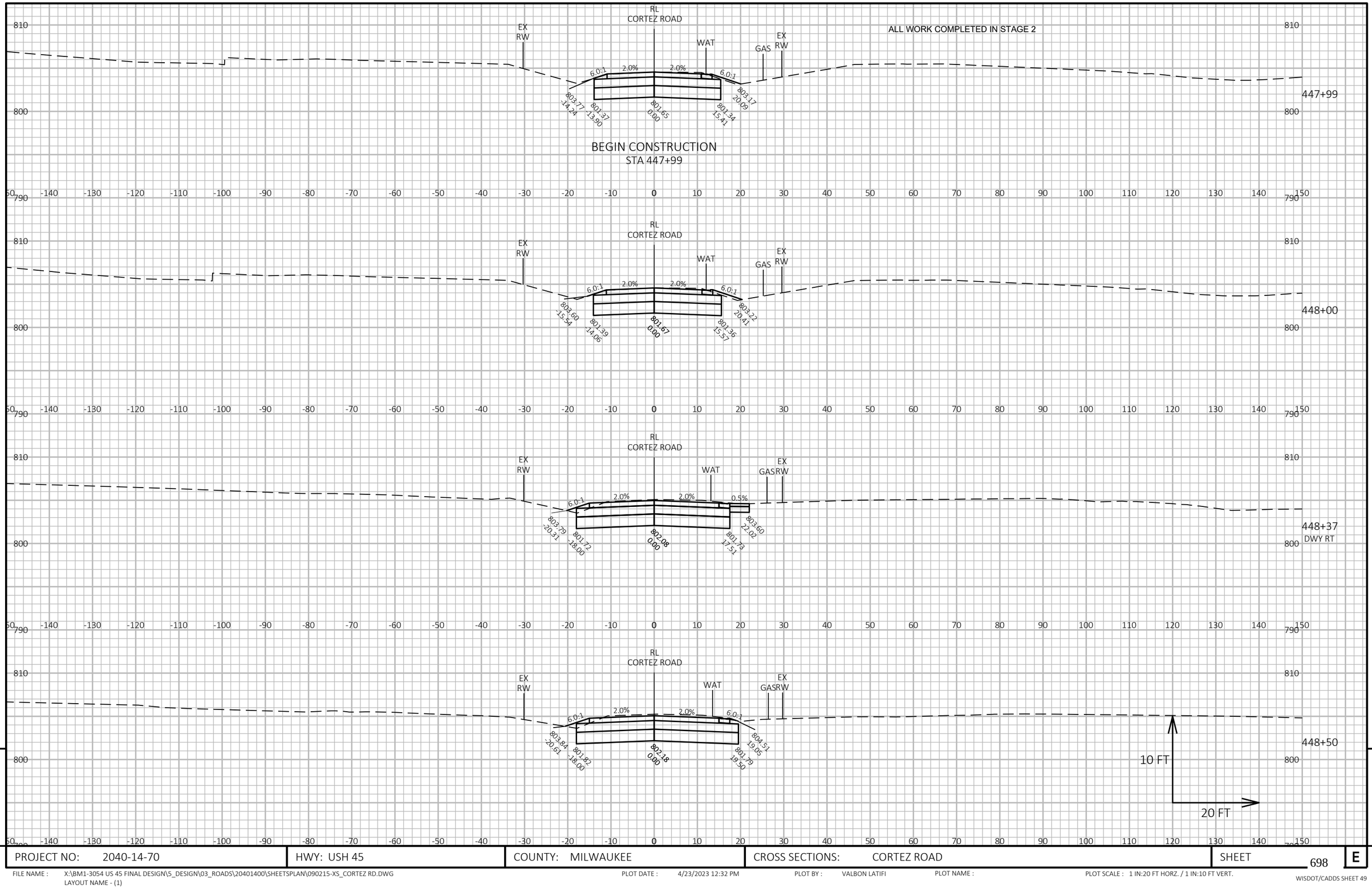
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: HERDA PLACE	SHEET 697	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090214-XS_HERDA PL.DWG
LAYOUT NAME - (1)

PLOT DATE : 4/23/2023 2:13 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

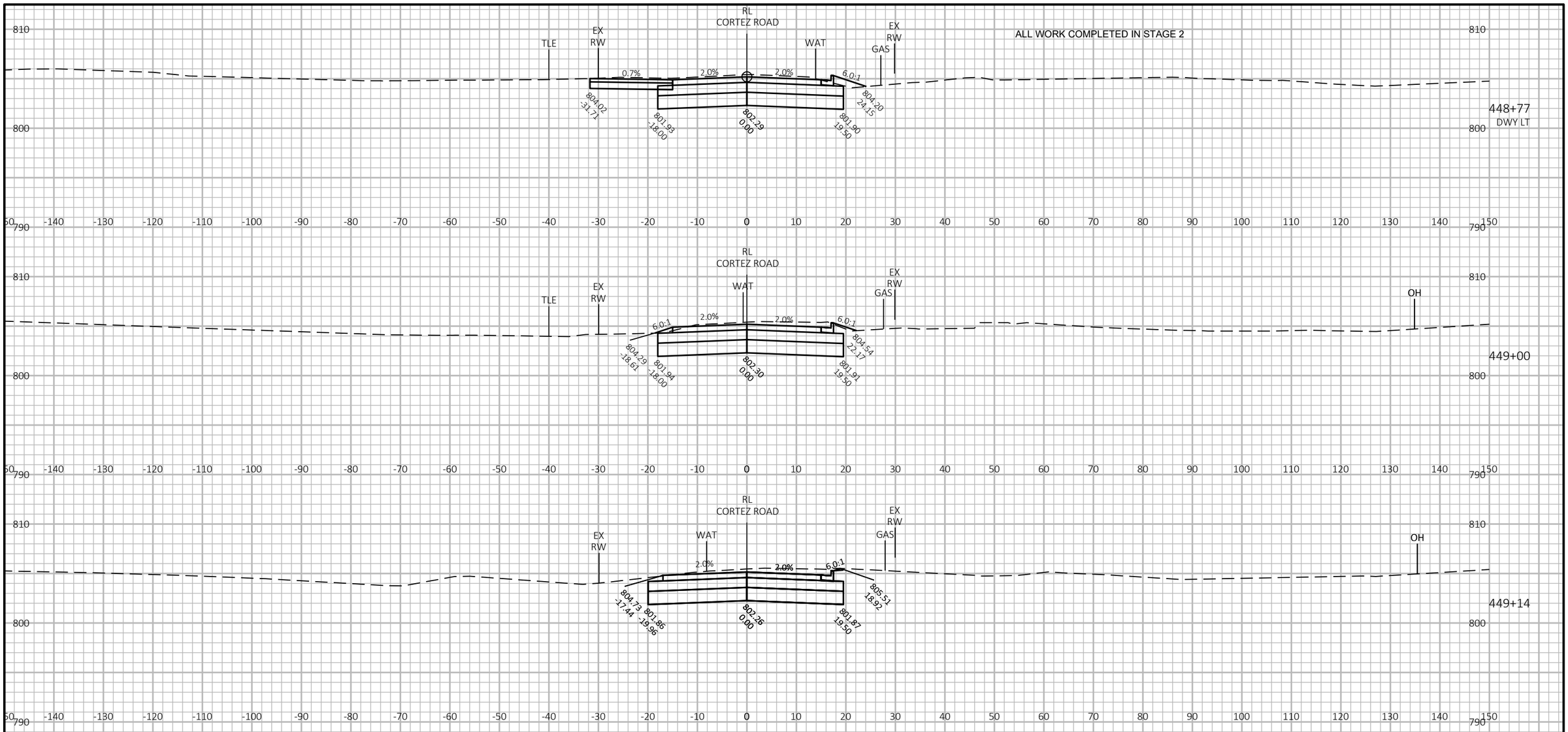
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: CORTEZ ROAD	SHEET 698	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090215-XS_CORTEZ RD.DWG
LAYOUT NAME - (1)

PLOT DATE : 4/23/2023 12:32 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



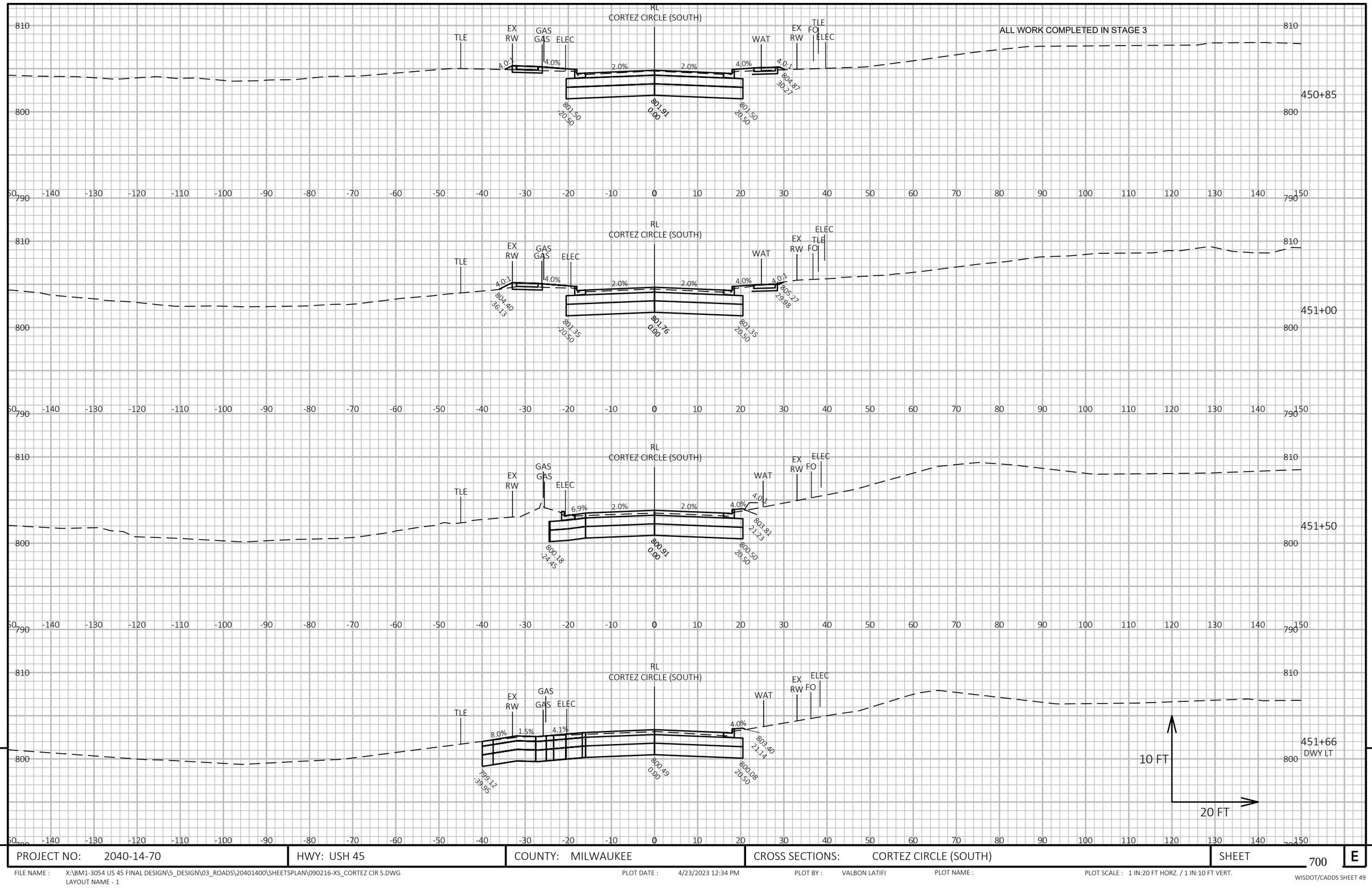
9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: CORTEZ ROAD	SHEET 699	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090215-XS_CORTEZ RD.DWG
LAYOUT NAME - (2)

PLOT DATE : 4/23/2023 12:32 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



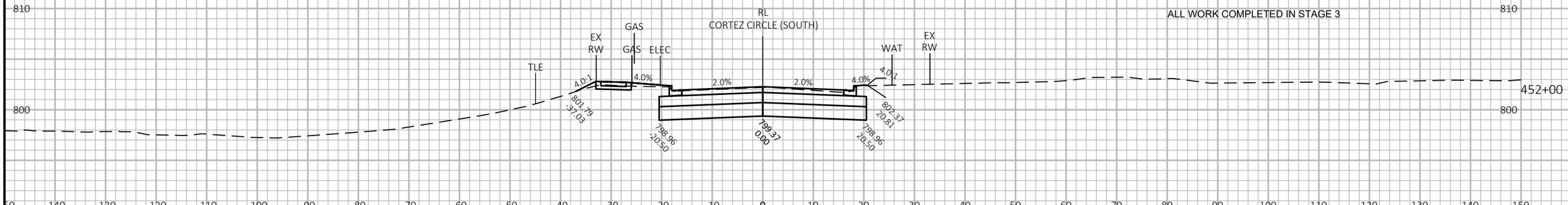
9

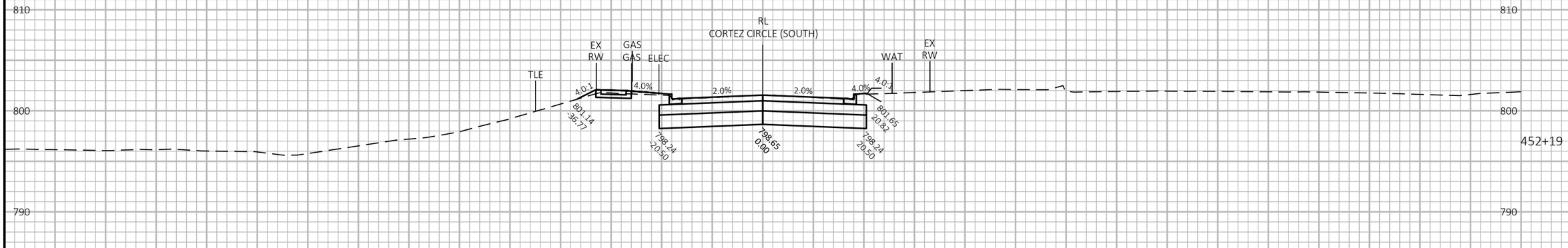
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: CORTEZ CIRCLE (SOUTH)	SHEET 700	E

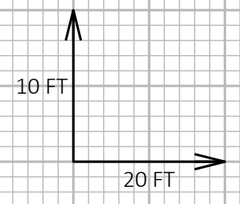
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090216-XS_CORTEZ CIR S.DWG
LAYOUT NAME - 1
PLOT DATE : 4/23/2023 12:34 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 3


RL
CORTEZ CIRCLE (SOUTH)
EX RW
GAS
GAS
ELEC
WAT
EX RW
TLE
4.0%
2.0%
2.0%
4.0%
4.0:1
4.0:1
801.79
-37.03
798.96
-20.50
799.37
0.00
798.96
20.50
802.37
20.61
452+00



END CONSTRUCTION
STA 452+19



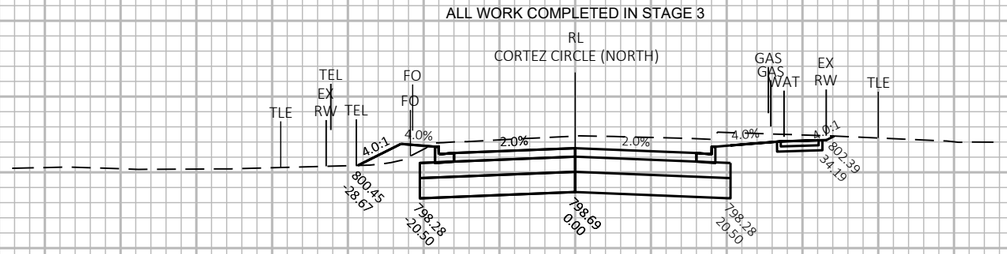
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: CORTEZ CIRCLE (SOUTH)	SHEET 701	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090216-XS_CORTEZ CIR S.DWG
LAYOUT NAME - 2

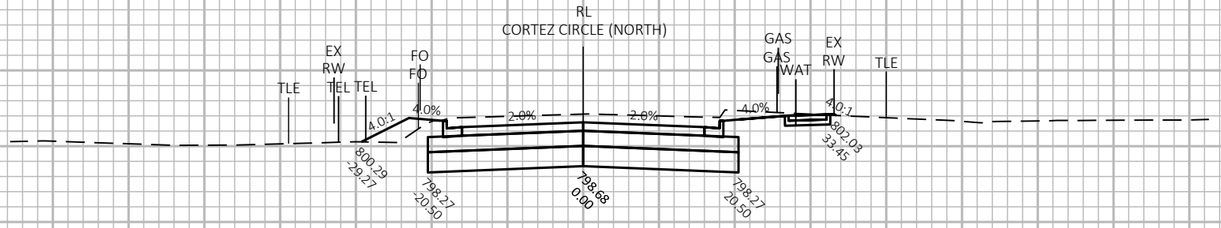
PLOT DATE : 4/23/2023 12:34 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

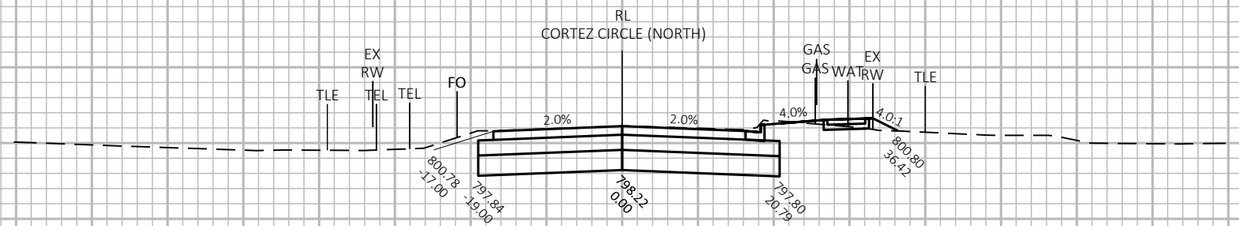
ALL WORK COMPLETED IN STAGE 3



500+93

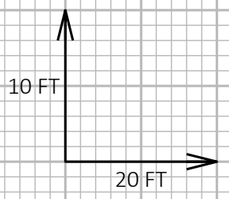


501+00



501+25

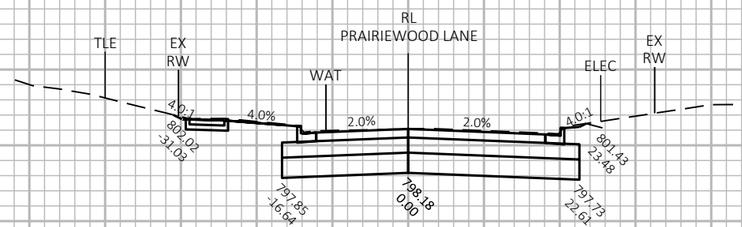
END CONSTRUCTION
STA 501+25



PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: CORTEZ CIRCLE (NORTH)	SHEET 702	E

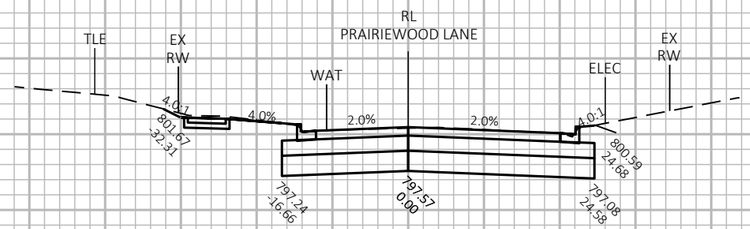
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090217-XS_CORTEZ CIR N.DWG
LAYOUT NAME - 1
PLOT DATE : 4/23/2023 12:36 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 2

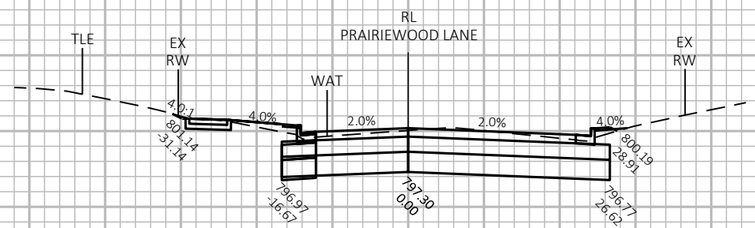


498+80

BEGIN CONSTRUCTION
STA 498+80



499+00



499+21

10 FT
20 FT

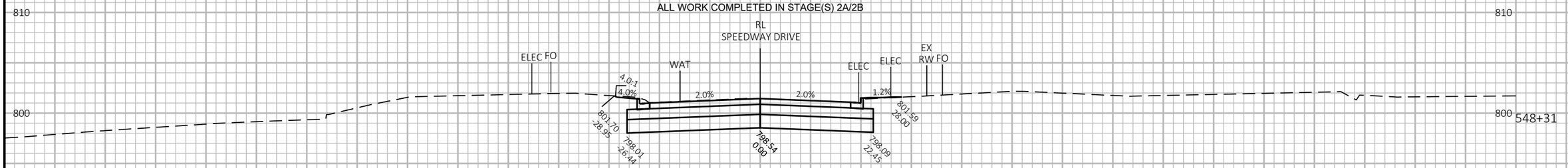
9

9

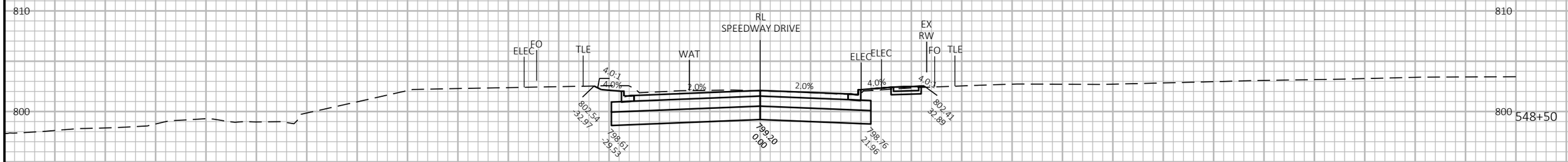
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: PRAIRIEWOOD LANE	SHEET 703	E

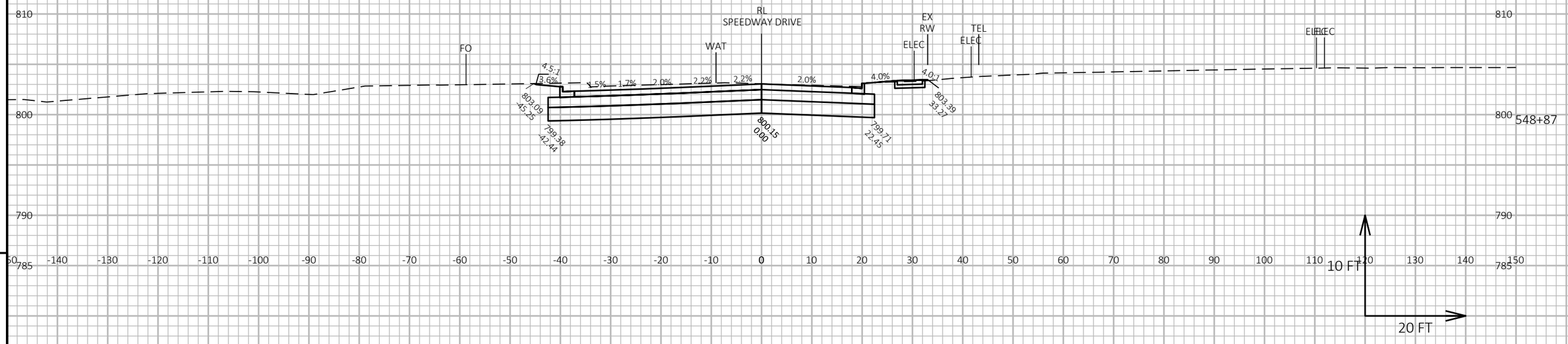
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090218-XS_PRAIRIE WOOD LN.DWG
LAYOUT NAME - (1)
PLOT DATE : 4/23/2023 12:39 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE(S) 2A/2B



BEGIN CONSTRUCTION
STA 548+31





9

9

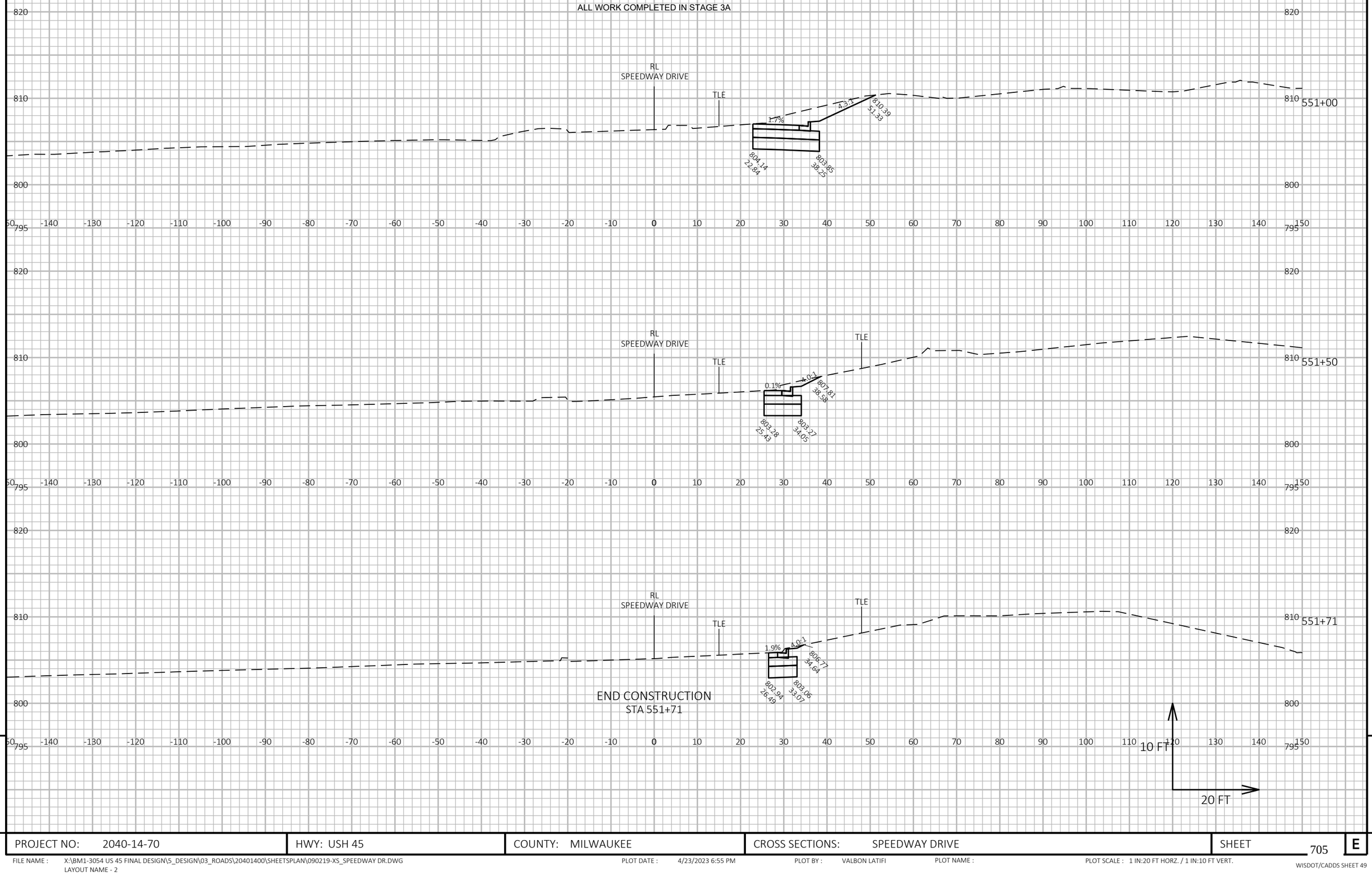
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: SPEEDWAY DRIVE	SHEET 704	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090219-XS_SPEEDWAY DR.DWG
LAYOUT NAME - 1

PLOT DATE : 4/23/2023 6:55 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK COMPLETED IN STAGE 3A



9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: SPEEDWAY DRIVE	SHEET 705	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090219-XS_SPEEDWAY DR.DWG
LAYOUT NAME - 2

PLOT DATE : 4/23/2023 6:55 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

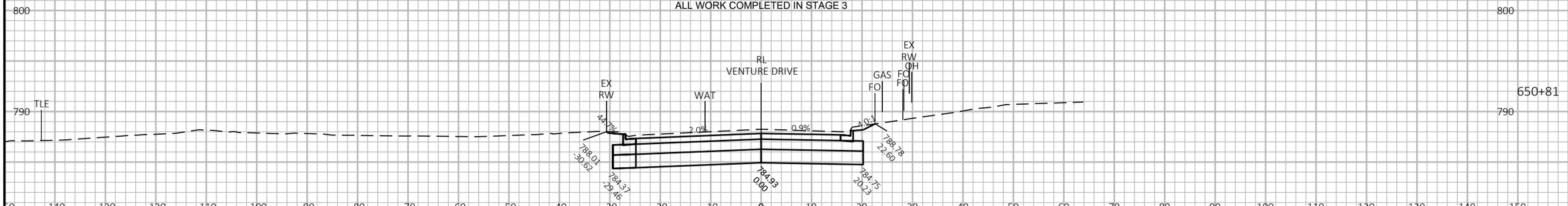
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: WHITNALL EDGE ROAD	SHEET 706 E

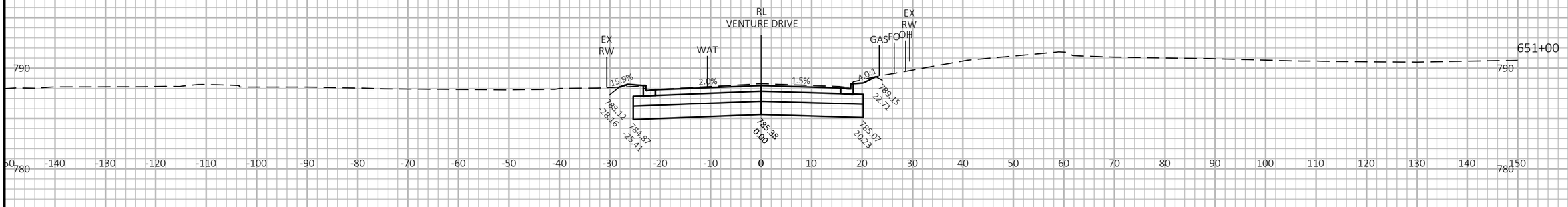
FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090220-XS_WHITNALL EDGE RD.DWG
LAYOUT NAME - (1)

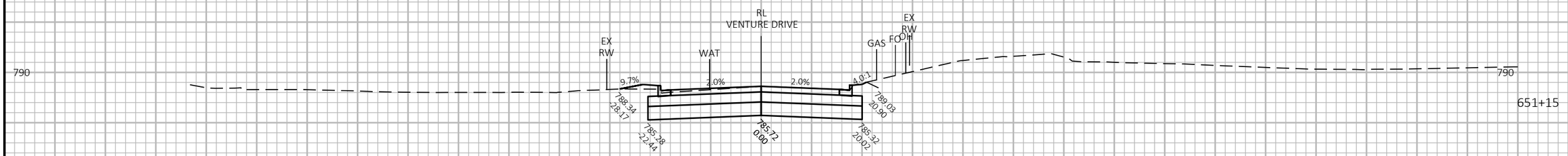
PLOT DATE : 6/1/2023 9:30 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

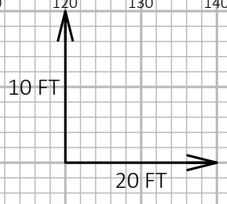
ALL WORK COMPLETED IN STAGE 3







END CONSTRUCTION
STA 651+15

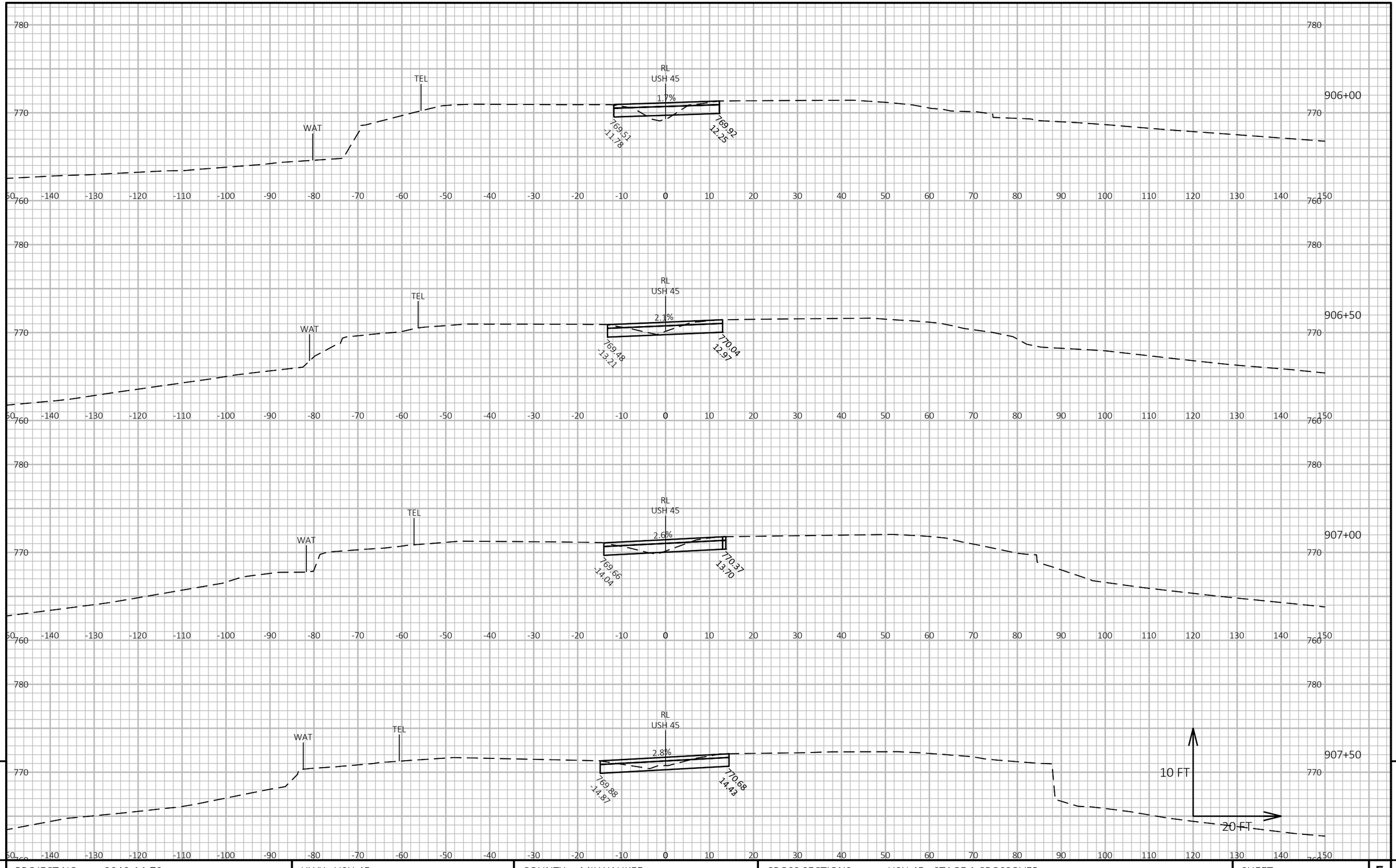


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: VENTURE DRIVE	SHEET 707	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090221-XS_VENTURE DR.DWG
LAYOUT NAME - 1

PLOT DATE : 5/1/2023 9:33 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



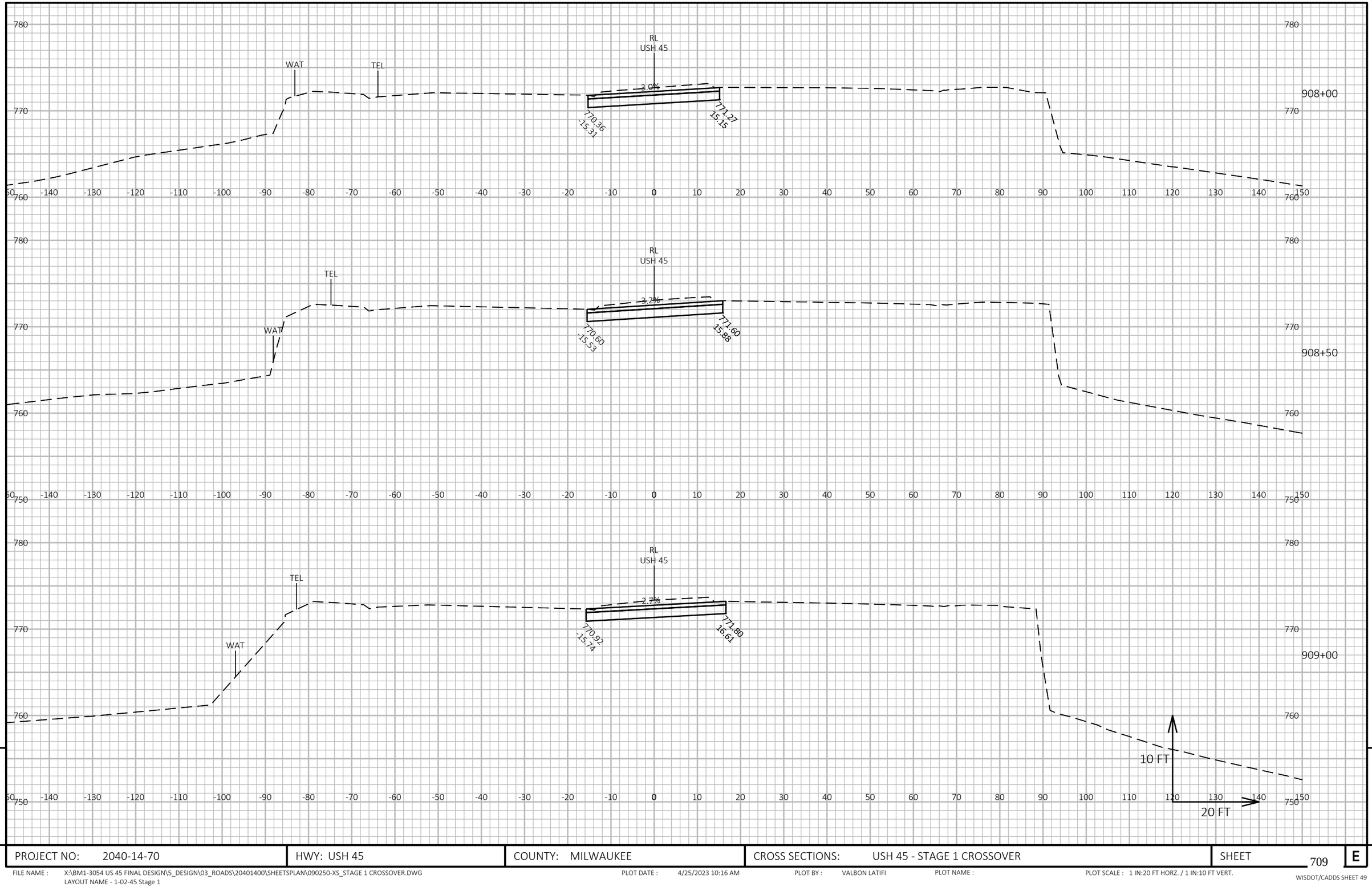
9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45 - STAGE 1 CROSSOVER	SHEET 708	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090250-XS_STAGE 1 CROSSOVER.DWG
LAYOUT NAME - 1-01-45 Stage 1

PLOT DATE : 4/25/2023 10:15 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

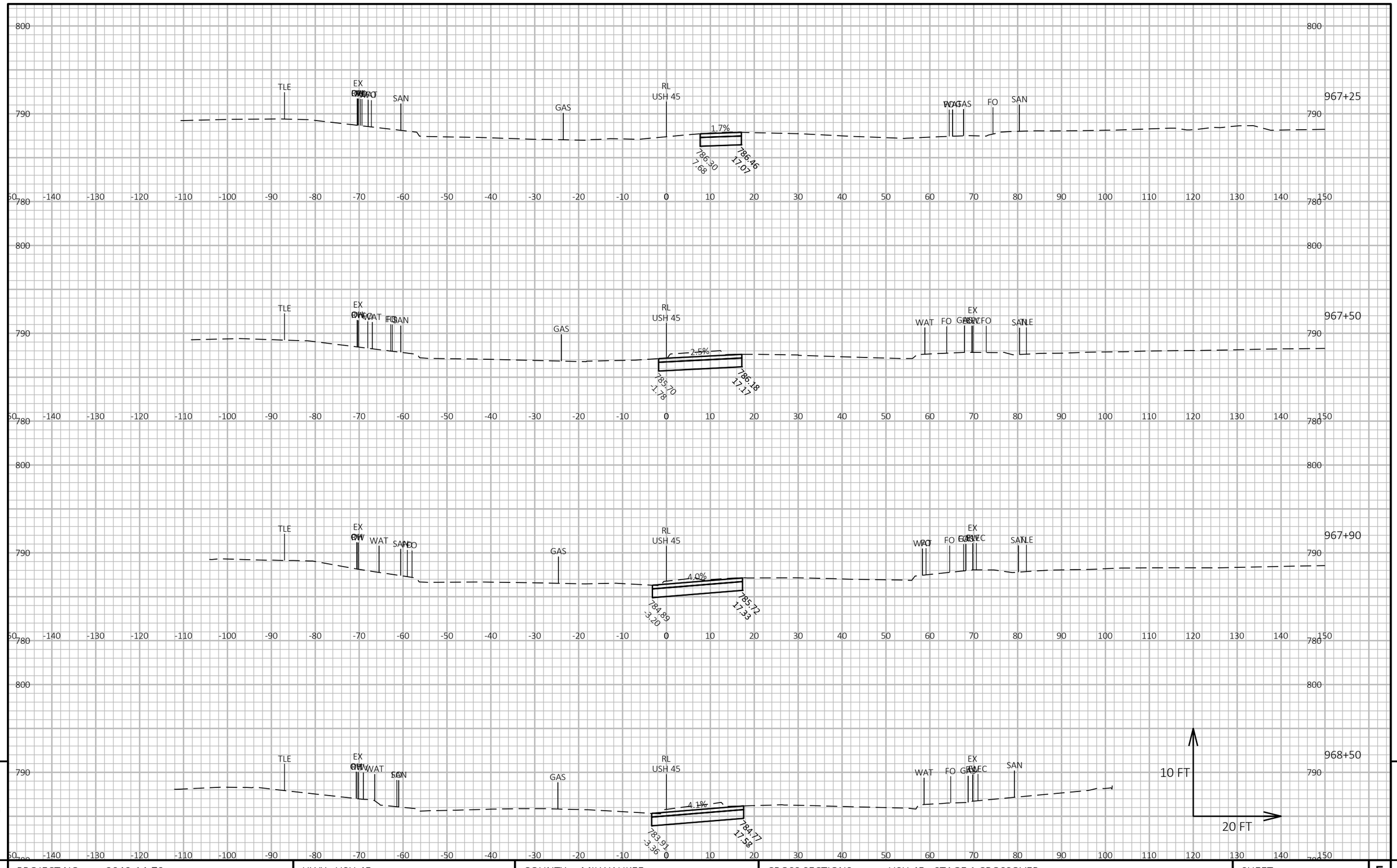


PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45 - STAGE 1 CROSSOVER	SHEET 709 E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090250-XS_STAGE 1 CROSSOVER.DWG
LAYOUT NAME - 1-02-45 Stage 1

PLOT DATE : 4/25/2023 10:16 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



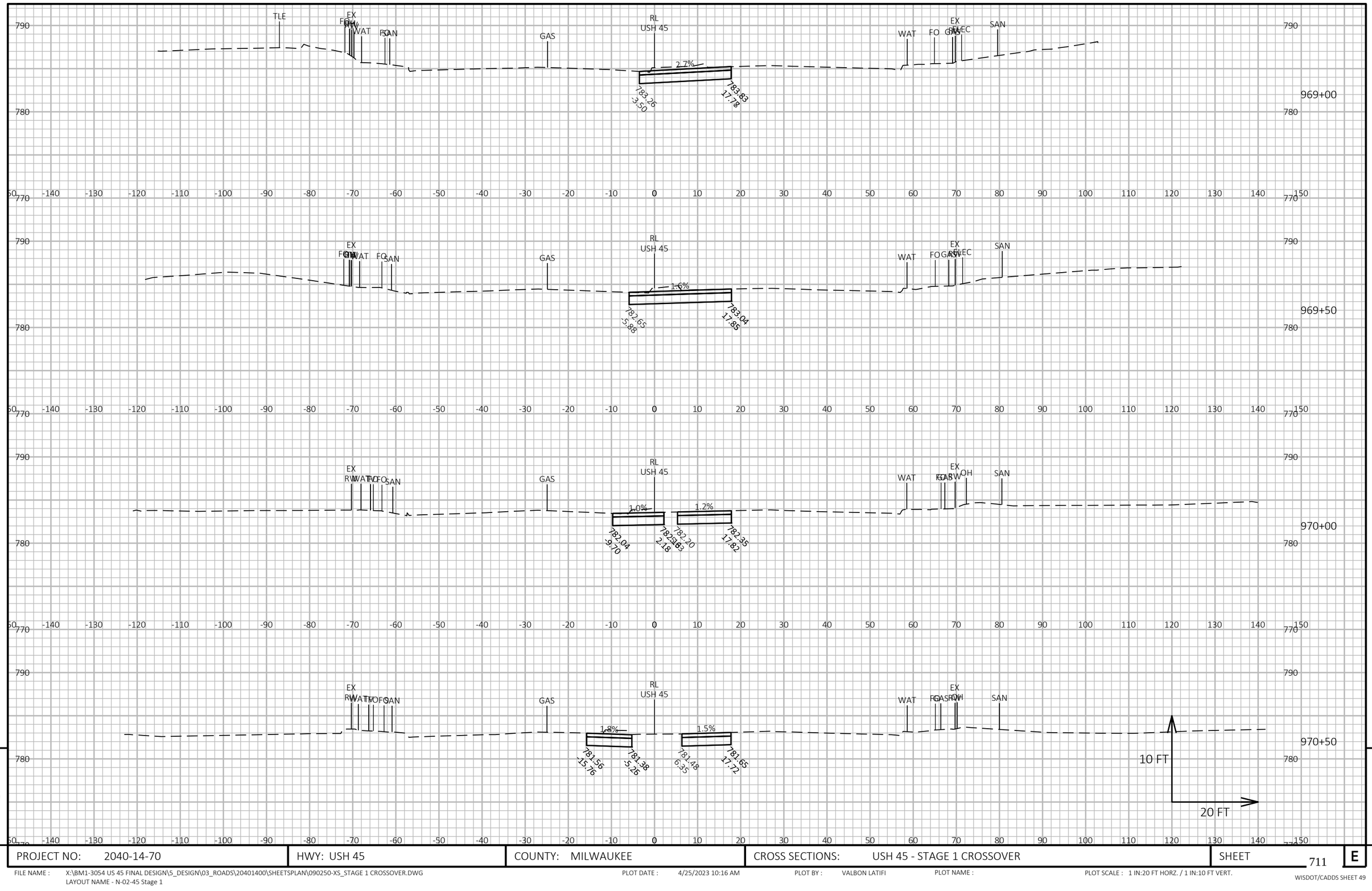
9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45 - STAGE 1 CROSSOVER	SHEET 710	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090250-XS_STAGE 1 CROSSOVER.DWG
LAYOUT NAME - N-01-45 Stage 1

PLOT DATE : 4/25/2023 10:16 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

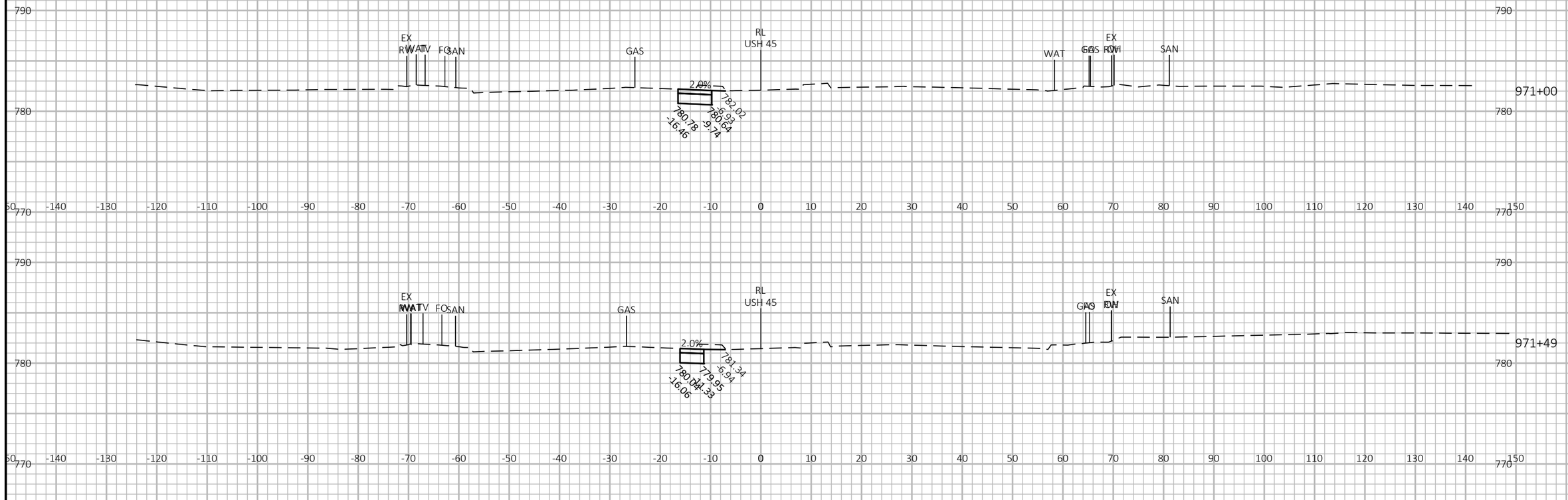
9

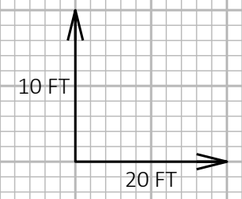
PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45 - STAGE 1 CROSSOVER	SHEET 711	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090250-XS_STAGE 1 CROSSOVER.DWG
LAYOUT NAME - N-02-45 Stage 1

PLOT DATE : 4/25/2023 10:16 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

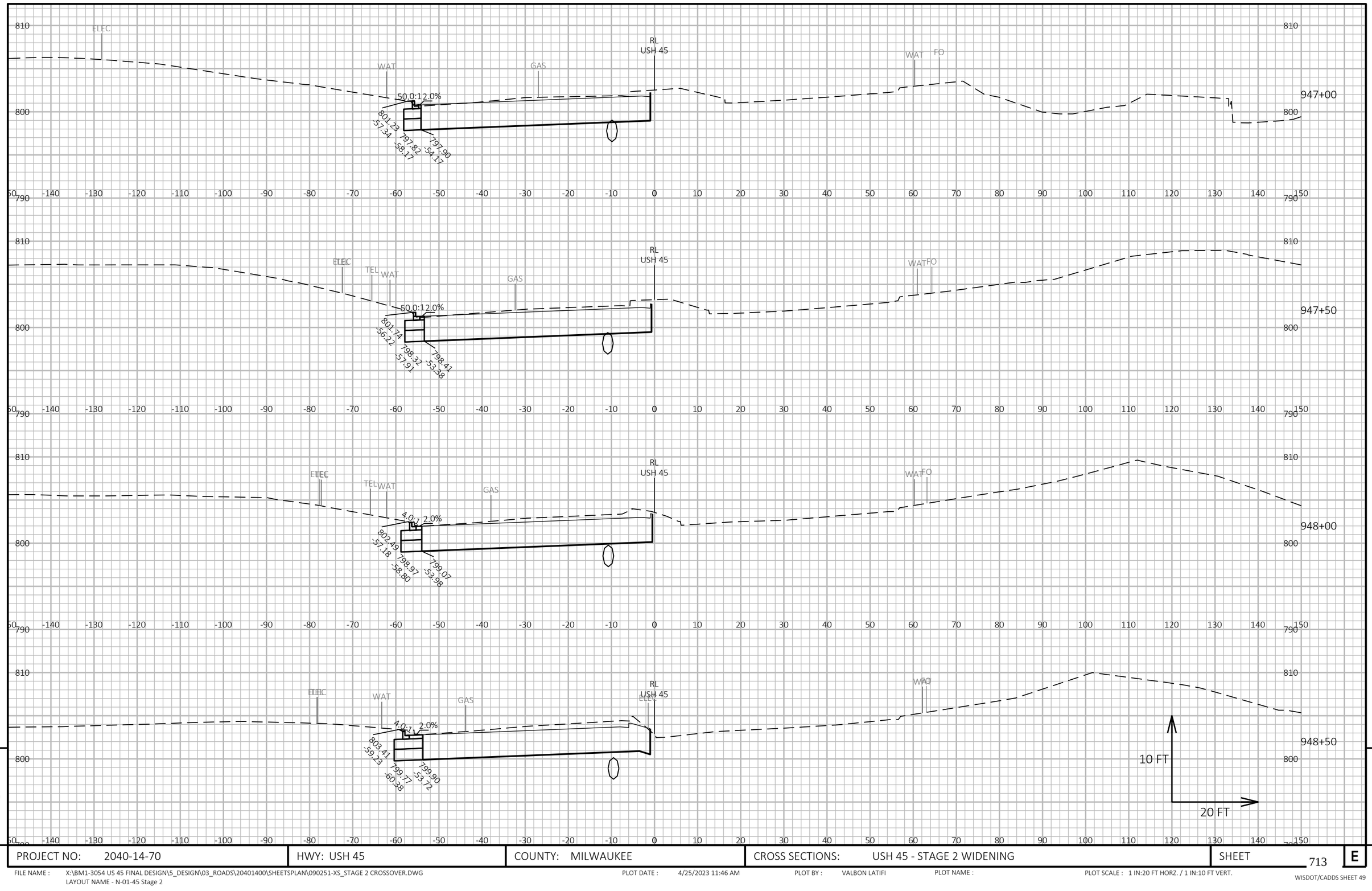
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45 - STAGE 1 CROSSOVER	SHEET 712	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090250-XS_STAGE 1 CROSSOVER.DWG
LAYOUT NAME - N-03-45 Stage 1

PLOT DATE : 4/25/2023 10:16 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



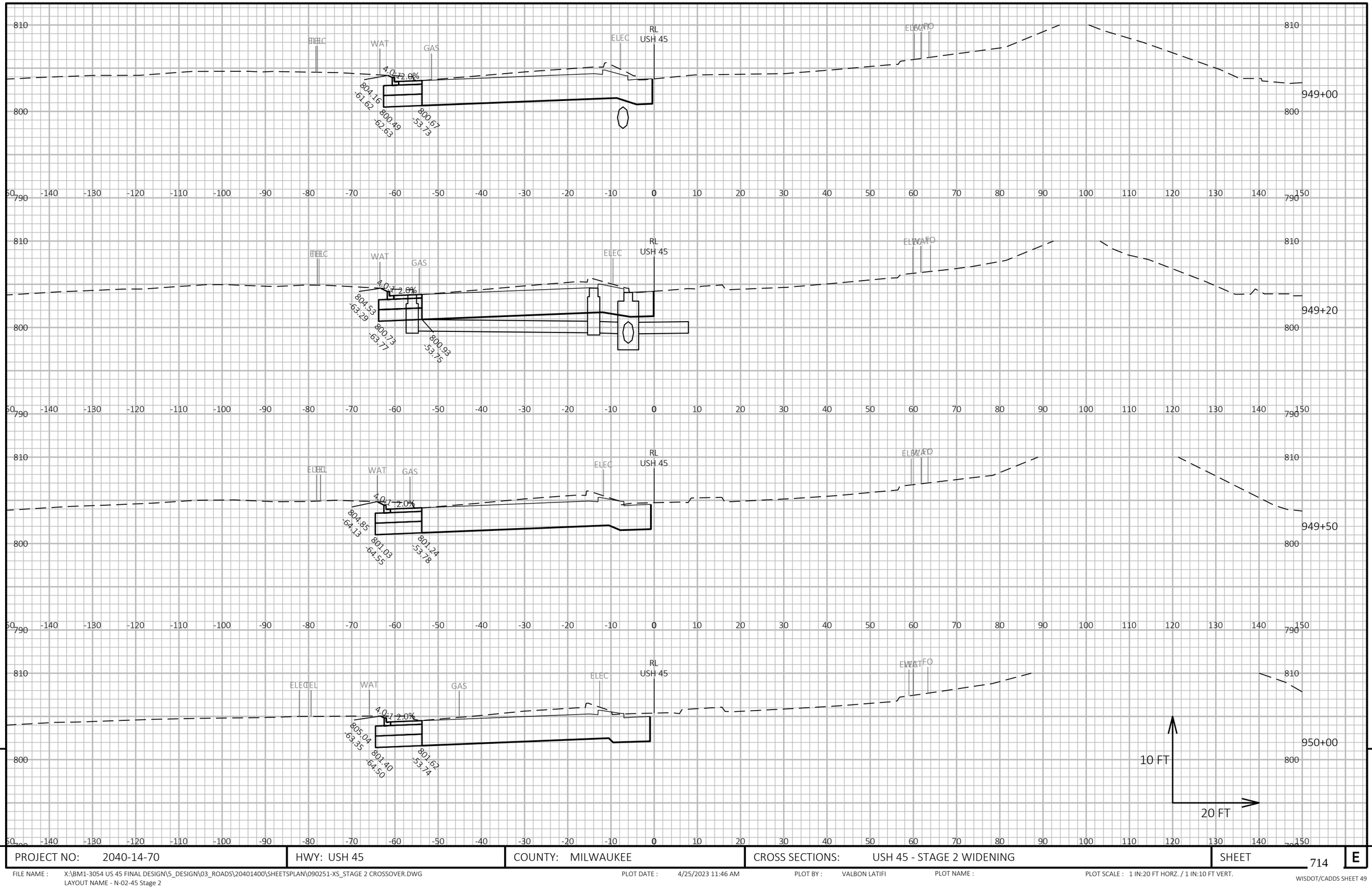
9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45 - STAGE 2 WIDENING	SHEET 713	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090251-XS_STAGE 2 CROSSOVER.DWG
LAYOUT NAME - N-01-45 Stage 2

PLOT DATE : 4/25/2023 11:46 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

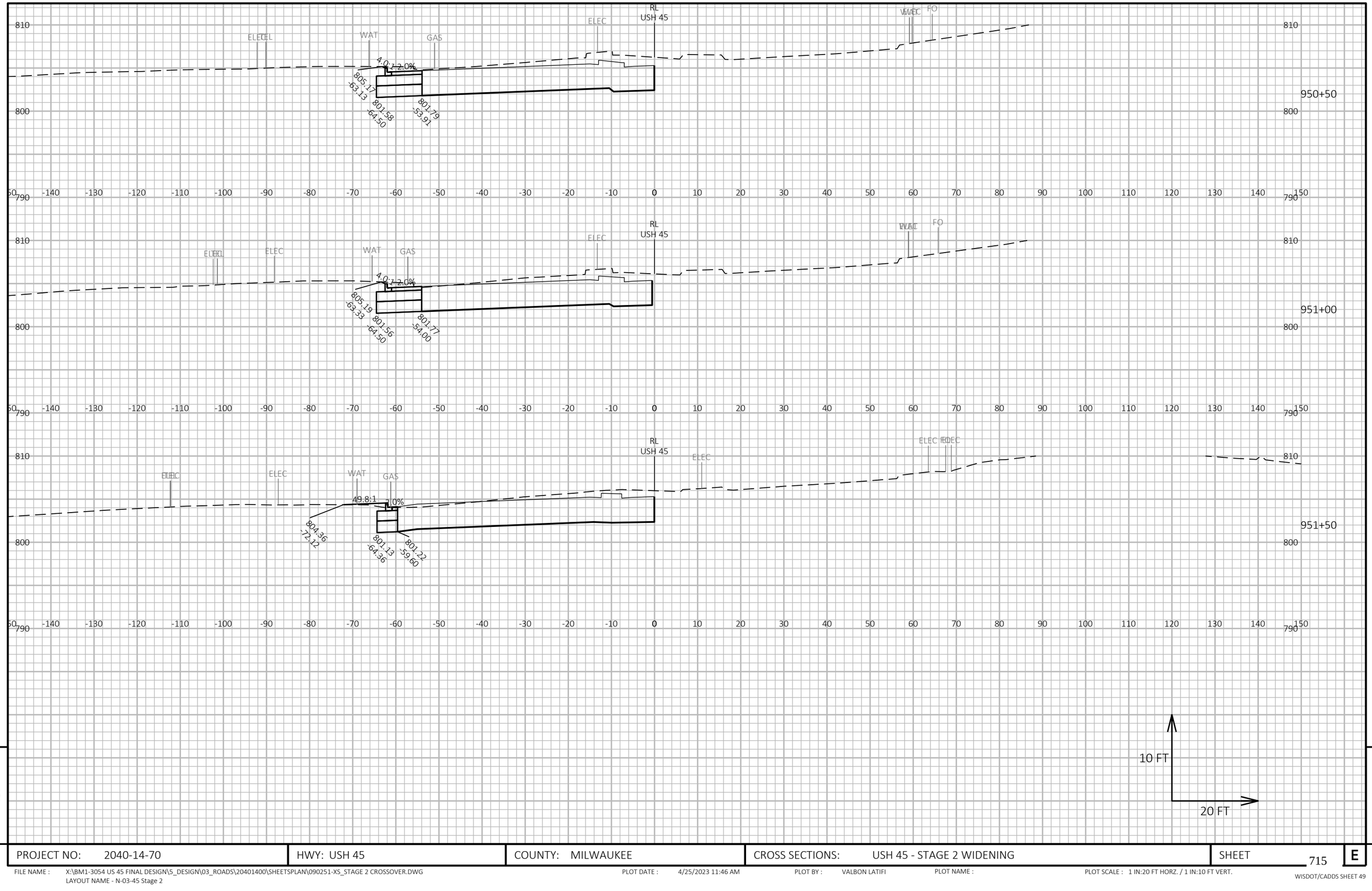
9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45 - STAGE 2 WIDENING	SHEET 714	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090251-XS_STAGE 2 CROSSOVER.DWG
LAYOUT NAME - N-02-45 Stage 2

PLOT DATE : 4/25/2023 11:46 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2040-14-70	HWY: USH 45	COUNTY: MILWAUKEE	CROSS SECTIONS: USH 45 - STAGE 2 WIDENING	SHEET 715	E

FILE NAME : X:\BM1-3054 US 45 FINAL DESIGN\5_DESIGN\03_ROADS\20401400\SHEETSPLAN\090251-XS_STAGE 2 CROSSOVER.DWG
LAYOUT NAME - N-03-45 Stage 2

PLOT DATE : 4/25/2023 11:46 AM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov