WKE

NOVEMBER 2023

PROJECT ID: 4070-00-70

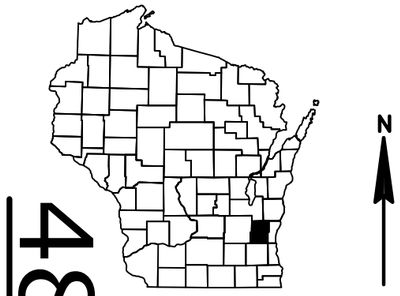
WITH: 4070-00-71

COUNTY: WASHINGTON

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 = 378



N

DESIGN DESIGNATION

A.A.D.T.	2017	=	15,600
A.A.D.T.	2041	=	18,100
D.H.V.		=	4.6%
D.D.		=	63/38
T.		=	5.5%
DESIGN SPEED		=	35 MPH
ESALS		=	

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

FOND DU LAC AVENUE

WB CTH H TO WB STH 28

USH 45

WASHINGTON COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4070-00-70	————	—

STATE PROJECT NUMBER

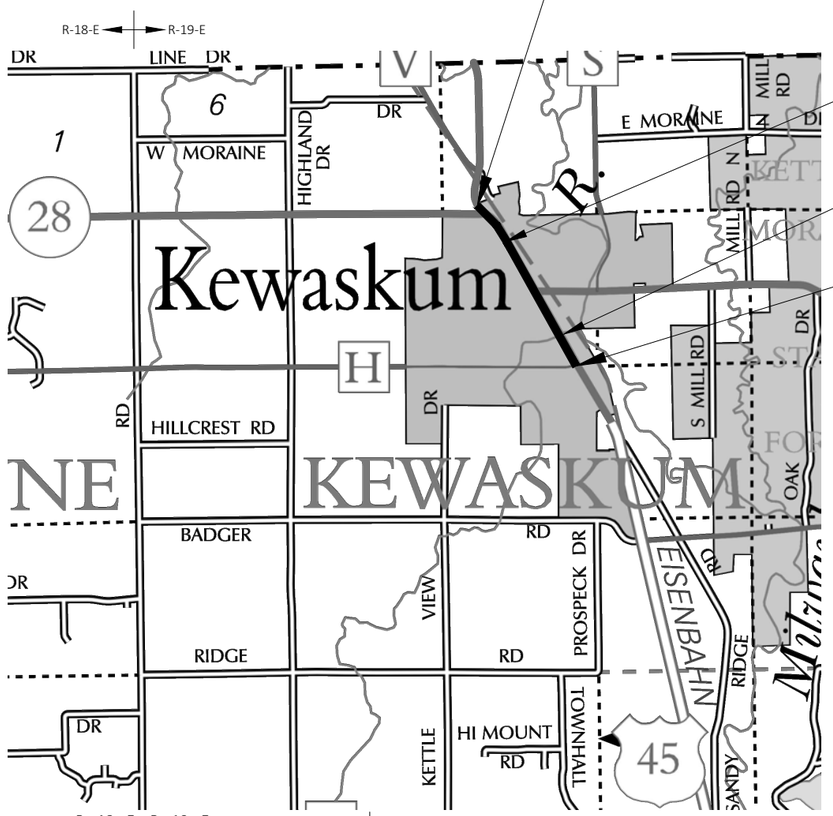
4070-00-70

END PROJECT
STA 376+65.17

C-66-28

B-66-129

BEGIN PROJECT
STA 313+30.18
X=351626.69
Y=217183.98



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 1.200 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, WASHINGTON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD88 (2012)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WIS DOT
Designer	ANDREW PINTER
Project Manager	DOUGLAS CAIN
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	BENEDICT ERUCHALU

APPROVED FOR THE DEPARTMENT

DATE: 8/1/2023 (Signature)

E

2

GENERAL NOTES

1. 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. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
2. ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.
3. CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER.
4. DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED, FERTILIZED, SEEDED, AND SODDED AS DIRECTED BY THE ENGINEER.
5. DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.
6. EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.
7. FOR INLET AND CATCH BASIN STRUCTURES LOCATED IN THE CURB, ELEVATIONS ARE GIVEN TO THE FLOW LINE. MANHOLE STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE CENTER OF STRUCTURE.
8. INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES AND PIPES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.
9. VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS BEFORE ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS BEFORE INSTALLING THE PROPOSED STORM SEWER.
10. VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS.
11. CONSTRUCT PAVEMENT CONSISTENT WITH THE PLAN TYPICAL SECTIONS. LOCATE LONGITUDINAL JOINTS IN ASPHALT PAVEMENT OUTSIDE OF DRIVING, TURNING, BIKE, OR PARKING LANE UNLESS DIRECTED OTHERWISE BY THE ENGINEER. PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE, OR PARKING LANE. THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.
12. CONSTRUCT INSIDE EDGE OF SIDEWALK 1/2 INCH HIGHER THAN TOP OF CURB WHEN THEY ARE ADJACENT TO EACH OTHER.
13. ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.
14. EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.
15. THE EXACT LOCATION OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER
16. THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND THE WASHINGTON COUNTY SURVEYOR - SCOTT SCHMIDT, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

UTILITY CONTACTS

AT&T WISCONSIN - COMMUNICATIONS
MR. DEAN HERRO
4235 S 95TH ST
MILWAUKEE, WI 53214
PHONE: (262) 226-9639
EMAIL: DH2572@att.com

EVERSTREAM - COMMUNICATIONS
EVERSTREAM UTILITY COORRDINATOR
324 E WISCONSIN AVE, SUITE 730
MILWAUKEE, WI 53202
PHONE: (414) 409-1709
EMAIL: WI-Relocations@everstream.net

FRONTIER COMMUNICATIONS of WI LLC
MR. RUSS RYAN
118 DIVISION ST
PLYMOUTH, WI 53073
PHONE: (920) 583-3275
EMAIL: russell.w.ryan@ftr.com

KEWASKUM WATER DEPARTMENT- WATER
MR. DENNIS AUPPERLE
204 FIRST ST
P.O. BOX 38
KEWASKUM, WI 53040
PHONE: (262) 626-8484
EMAIL: daupperle@village.kewaskum.wi.us

SPECTRUM - COMMUNICATIONS
MR. RON MUELLER
1515 WEST WASHINGTON ST
WEST BEND, WI 53095
PHONE: (262) 429-8889
EMAIL: ronald.mueller@charter.com

VILLAGE OF KEWASKUM - SEWER
MR. DENNIS AUPPERLE
204 FIRST ST
P.O. BOX 38
KEWASKUM, WI 53040
PHONE: (262) 626-8484
EMAIL: daupperle@village.kewaskum.wi.us
COPY BEN PROPSON (WWTP OPERATOR)
EMAIL: bpropson@village.kewaskum.wi.us

WE ENERGIES - ELECTRICITY
WE ENERGIES UTILITY COORDINATOR
500 S 116TH ST
WEST ALLIS, WI 53214
PHONE: (414) 221-2738
EMAIL: We-Utility-relocations@we-energies.com

WE ENERGIES - GAS/PETROLEUM
WE ENERGIES UTILITY COORDINATOR
500 S 116TH ST
WEST ALLIS, WI 53214
PHONE: (414) 221-2738
EMAIL: We-Utility-relocations@we-energies.com

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
CURB RAMP DETAILS
PLAN DETAILS
EROSION CONTROL
PERMANENT SIGNING
SIGNAL PLAN
PAVEMENT MARKING
TRAFFIC CONTROL
PEDESTRIAN ACCOMMODATIONS
DETOUR PLAN
ALIGNMENT DETAILS

USH 45 HMA PAVEMENT

HMA TOTAL DEPTH	HMA LAYER	ASPHALT MIX
4 INCH	2 1/4 INCH LOWER	3MT 58-28 S
	1 3/4 INCH UPPER	4MT 58-28 S

OTHER AGENCIES

WISCONSIN DNR
MR. BENTON STELZEL
141 NW BARSTOW ST.
WAUKESHA, WI 53187
PHONE: (262) 623-0194
EMAIL: benton.stelzel@wisconsin.gov

VILLAGE OF KEWASKUM
MR. ADAM GITTER
VILLAGE ADMINISTRATOR
204 FIRST ST
P.O. BOX 38
KEWASKUM, WI 53040
PHONE: (262) 626-3623 EXT. 125
EMAIL: agitter@village.kewaskum.wi.us

WISDOT PROJECT MANAGER
MR. DOUG CAIN
141 NW BARSTOW ST
P.O. BOX 798
WAUKESHA, WI 53187
PHONE: (262) 548-5603
EMAIL: douglas.cain@dot.wi.gov

WASHINGTON COUNTY
MR. SCOTT SCHMIDT
WASHINGTON CO. ENGINEER / SURVEYOR
WASHINGTON CO. HIGHWAY COMMISSIONER
VEHICLE MAINTENANCE STORAGE FACILITY
900 LANG ST.
WEST BEND, WI 53090
PHONE: (262) 335-6881
FAX: (262) 335-4439
EMAIL: scott.schmidt@co.washington.wi.us

WASHINGTON COUNTY MAINTENANCE
MR. JAMES WEIGLEIN
141 NW BARSTOW ST.
WAUKESHA, WI 53187
PHONE: (414) 750-1406
EMAIL: james.weiglein@dot.wi.gov

TOWN OF KEWASKUM
MS. ANNE TRAUTNER
TOWN CLERK
9019 KETTLE MORAINE DR.
P.O. BOX 484
KEWASKUM, WI 53040
PHONE: (262) 626-2566
EMAIL: townkewaskum@gmail.com

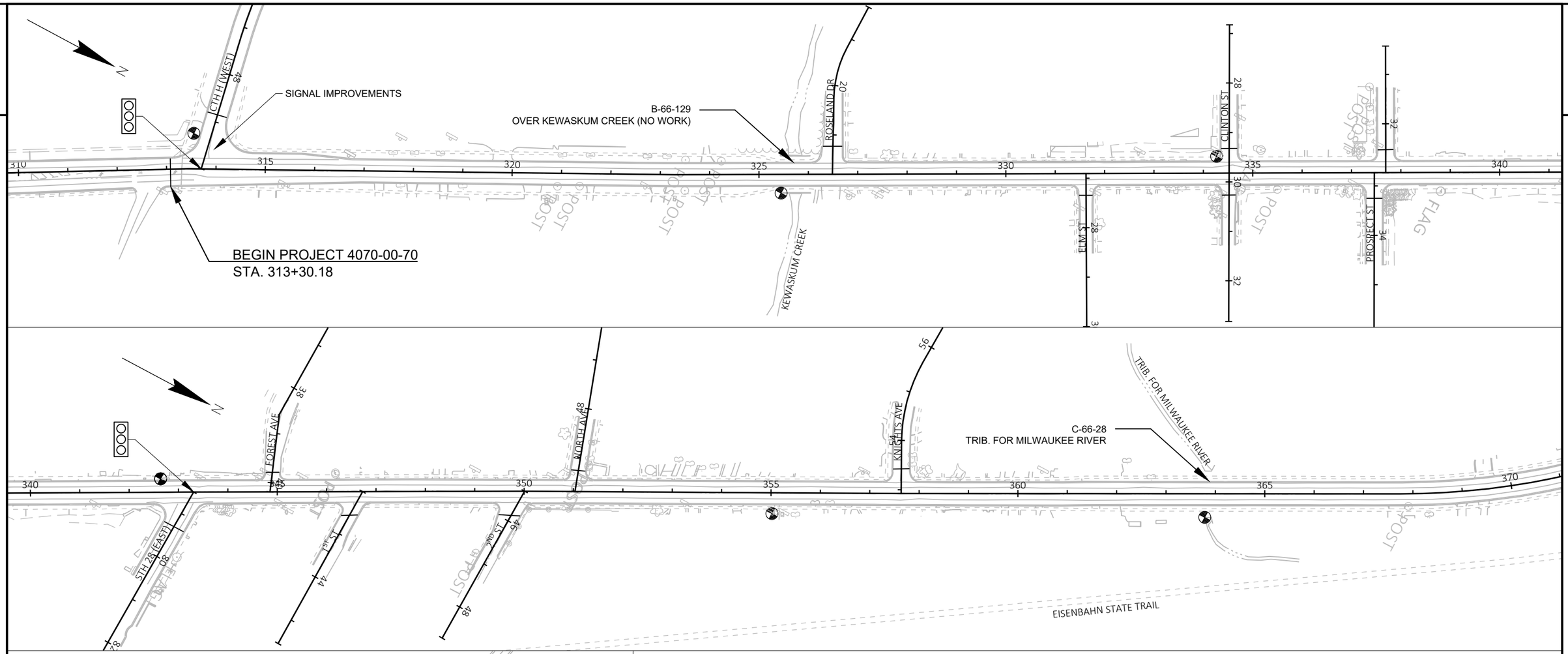
WISDOT SIGNALS
DAVID BRANTNER
141 NW BARSTOW ST
P.O. BOX 798
WAUKESHA, WI 53187
PHONE: (262) 548-8736
EMAIL: david.brantner@dot.wi.gov

STANDARD ABBREVIATIONS

AP	ACCESS POINT	NOM	NOMINAL
AC	ACRE	NC	NORMAL CROWN
ADJ	ADJUST	N	NORTH
AECPRC	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE	Y	NORTH GRID COORDINATE
		NB	NORTHBOUND
AH	AHEAD	NO	NUMBER
AC	ASPHALT CEMENT	OPT	OPTIONAL
ASPH	ASPHALTIC	OD	OUTSIDE DIAMETER
ACP	ASPHALTIC CONCRETE PAVEMENT	PAVT	PAVEMENT
AVG	AVERAGE	PLE	PERMANENT LIMITED EASEMENT
ADT	AVERAGE DAILY TRAFFIC	PACS	PIPE ARCH CORRUGATED STEEL
BK	BACK	P	POINT
BAD	BASE AGGREGATE DENSE	PC	POINT OF CURVATURE
BM	BENCHMARK	PI	POINT OF INTERSECTION
CB	CATCH BASIN	PT	POINT OF TANGENCY
C/L	CENTER LINE	PVC	POINT OF VERTICAL CURVE
C/L CONST	CENTER LINE CONSTRUCTION	PVI	POINT OF VERTICAL INTERSECTION
Δ	CENTRAL ANGLE OR DELTA	PVT	POINT OF VERTICAL TANGENCY
CL	CLASS	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	PCC	PORTLAND CEMENT CONCRETE
CONST	CONSTRUCTION	LB	POUND
CMCP	CORRUGATED METAL CULVERT PIPE	PSF	POUNDS PER SQUARE FOOT
CTH	COUNTY TRUNK HIGHWAY	PSI	POUNDS PER SQUARE INCH
CABC	CRUSHED AGGREGATE BASE COURSE	PE	PRIVATE ENTRANCE
CFS	CUBIC FEET PER SECOND	PGL	PROFILE GRADE LINE
CY	CUBIC YARD	PL	PROPERTY LINE
CP	CULVERT PIPE	Q100	100-YEAR FLOW RATE
CPCS	CULVERT PIPE CORRUGATED STEEL	R	RADIUS
CPRC	CULVERT PIPE REINFORCED CONCRETE	RR	RAILROAD
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL	R	RANGE
		R/L	REFRENCE LINE
C & G	CURB AND GUTTER	REINF	REINFORCING OR REINFORCEMENT
D	DEGREE OF CURVE	REQD	REQUIRED
DHV	DESIGN HOUR VOLUME	RT	RIGHT
DIA	DIAMETER	R/W	RIGHT-OF-WAY
DD	DIRECTIONAL DISTRIBUTION	RD	ROAD
DWY	DRIVEWAY	RDWY	ROADWAY
E	EAST	SEC	SECTION
X	EAST GRID COORDINATE	SHLDR	SHOULDER
EB	EASTBOUND	S	SOUTH
EL	ELEVATION	SB	SOUTHBOUND
ESALS	EQUIVALENT SINGLE AXLE LOADS	SQ	SQUARE
EXC	EXCAVATION	SF	SQUARE FEET
EBS	EXCAVATION BELOW SUBGRADE	SW	SIDEWALK
EXIST	EXISTING	SY	SQUARE YARD
FPS	FEET PER SECOND	SDD	STANDARD DETAIL DRAWINGS
FERT	FERTILIZE	STH	STATE TRUNK HIGHWAYS
FE	FIELD ENTRANCE	STA	STATION
FL	FLOW LINE	SS	STORM SEWER
FT	FOOT	SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
GN	GRID NORTH		
HES	HIGH EARLY STRENGTH	ST	STREET
HP	HIGH POINT	STR	STRUCTURE OR STRUCTURAL
HW	HIGH WATER	SE	SUPERELEVATION
HMA	HOT MIX ASPHALT	T	TANGENT
CWT	HUNDREDWEIGHT	TEMP	TEMPORARY
HWD	HYDRANT	TI	TEMPORARY INTEREST
INL	INLET	TLE	TEMPORARY LIMITED EASEMENT
ID	INSIDE DIAMETER	t	TON
I	INTERSECTION ANGLE	T	TOWN
INV	INVERT	T/L	TRANSIT LINE
IP	IRON PIPE OR PIN	T	TRUCKS (PERCENT OF)
JT	JOINT	TYP	TYPICAL
LT	LEFT	USH	UNITED STATES HIGHWAY
LC	LENGTH OF CURVE	VAR	VARIABLE
LF	LINEAR FOOT	V	VELOCITY OF DESIGN SPEED
LP	LOW POINT	VERT	VERTICAL
LS	LUMP SUM	VC	VERTICAL CURVE
MH	MANHOLE	VOL	VOLUME
MAX	MAXIMUM	WM	WATERMAIN
MGAL	MEGAGALLON	WV	WATER VALVE
MPH	MILES PER HOUR	W	WEST
MIN	MINIMUM	WB	WESTBOUND
MON	MONUMENT	YD	YARD

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

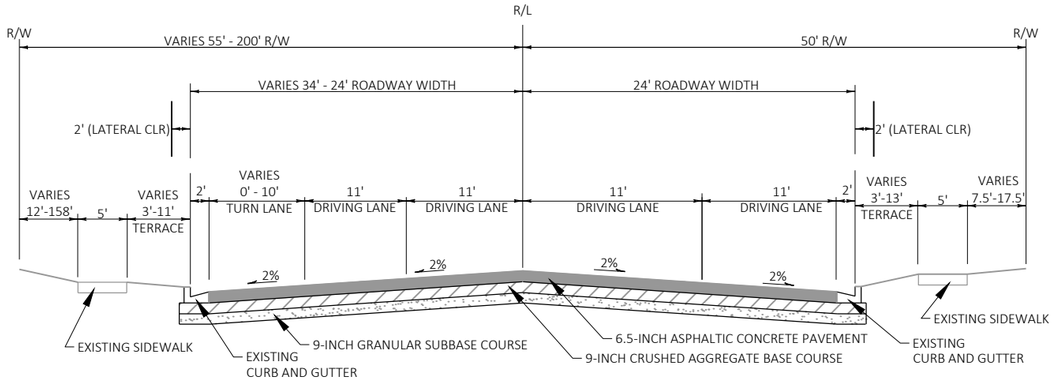
2



2

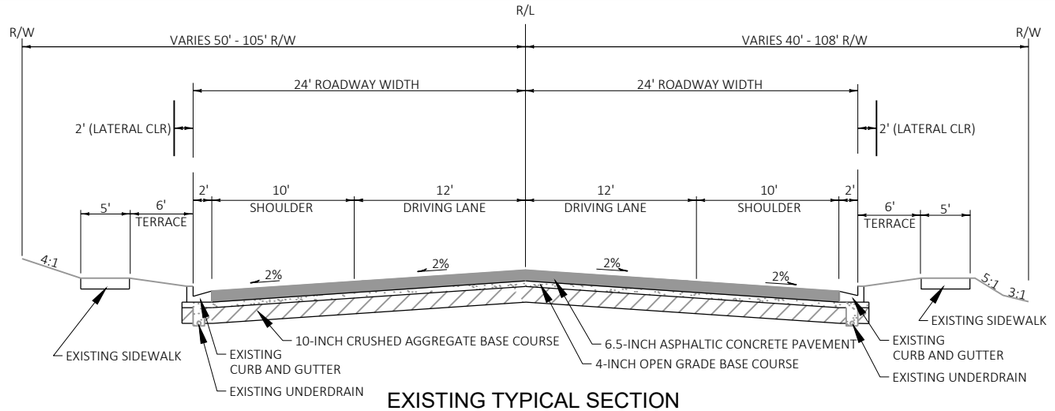
PROJECT NO: 4070 - 00 - 70	HWY: USH 45	COUNTY: WASHINGTON	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2022 1:45 PM
PLOT BY : PINTER, ANDREW D
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42



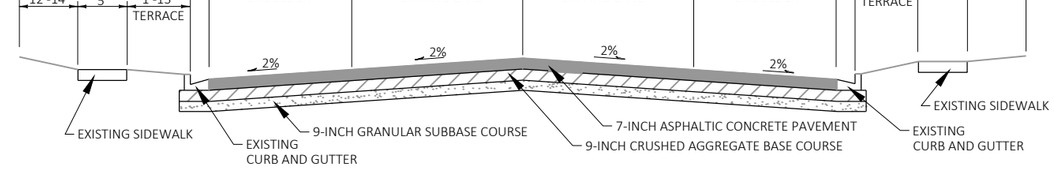
EXISTING TYPICAL SECTION

FOND DU LAC AVE
STA 313+30 TO STA 316+75



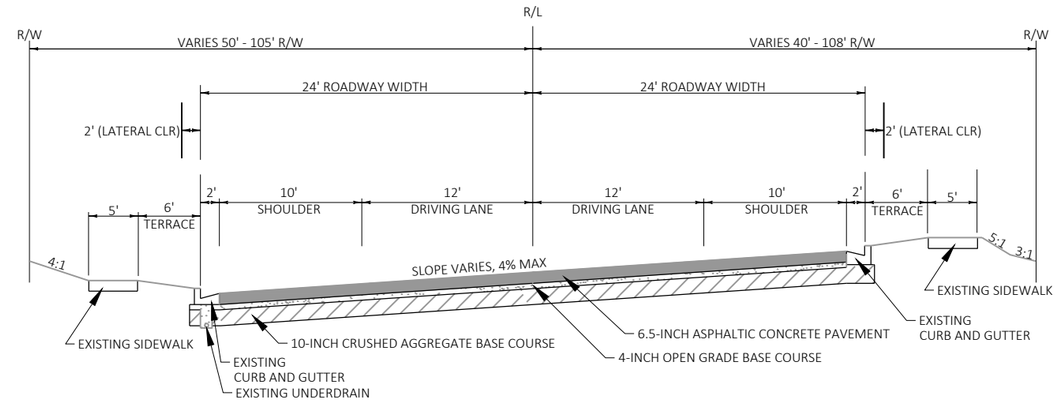
EXISTING TYPICAL SECTION

FOND DU LAC AVE
STA 361+00 TO STA 365+50
STA 374+50 TO STA 376+65



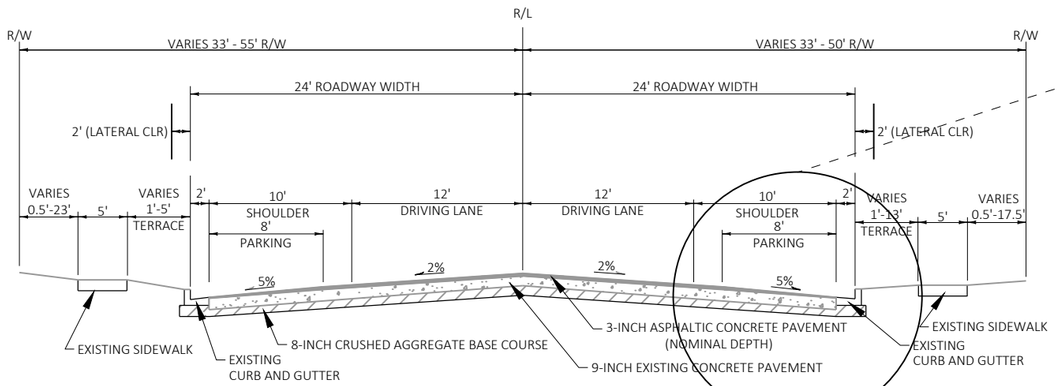
EXISTING TYPICAL SECTION

FOND DU LAC AVE
STA 316+75 TO STA 326+00



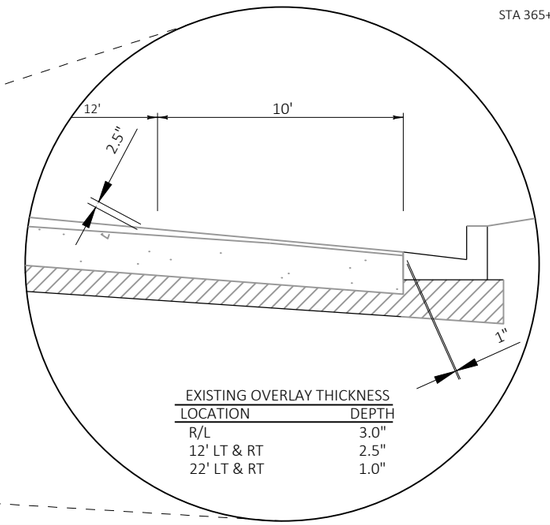
EXISTING TYPICAL SUPERELEVATED SECTION

FOND DU LAC AVE
STA 365+50 TO STA 374+50



EXISTING TYPICAL SECTION

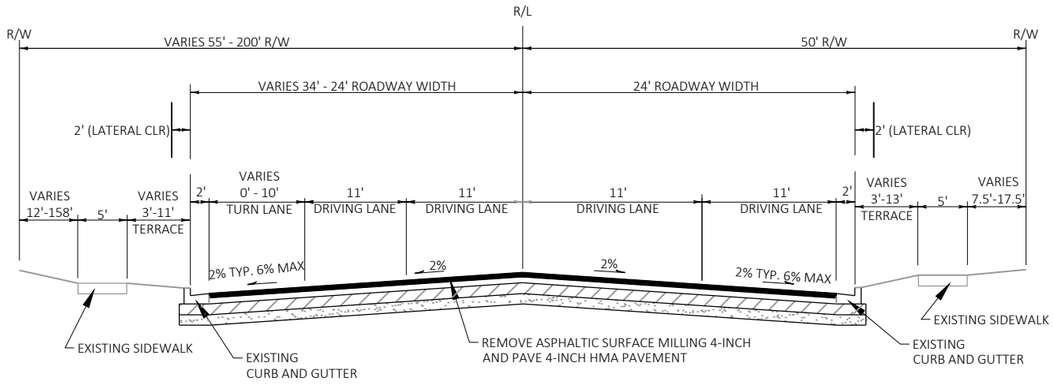
FOND DU LAC AVE
STA 326+00 TO STA 361+00



EXISTING OVERLAY THICKNESS

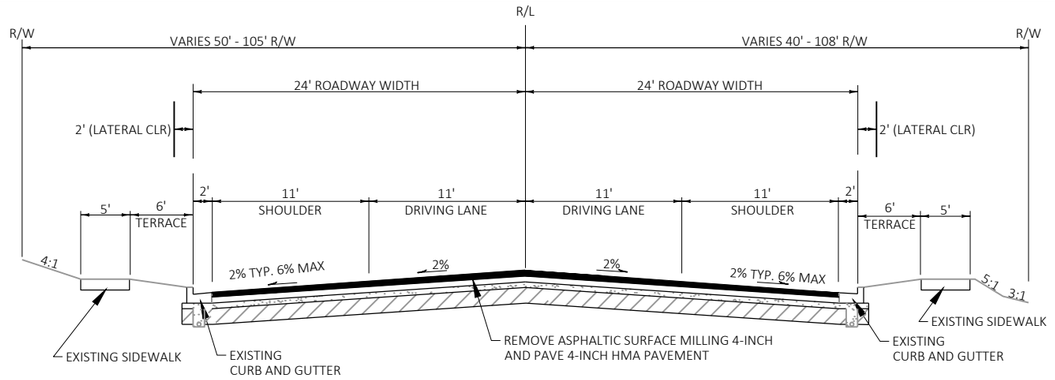
LOCATION	DEPTH
R/L	3.0"
12' LT & RT	2.5"
22' LT & RT	1.0"

PROJECT NO: 4070 - 00 - 70	HWY: USH 45	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 4	E



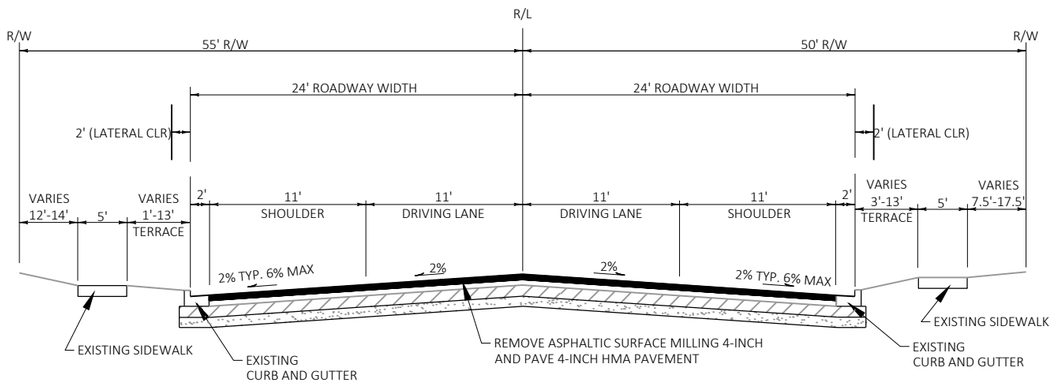
FINISHED TYPICAL SECTION

FOND DU LAC AVE
STA 313+30 TO STA 322+15



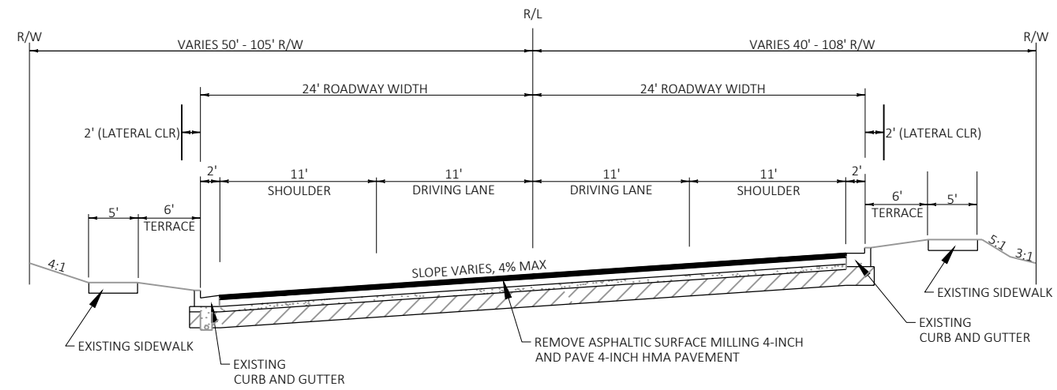
FINISHED TYPICAL SECTION

FOND DU LAC AVE
STA 360+84 TO STA 365+50
STA 374+50 TO STA 376+65



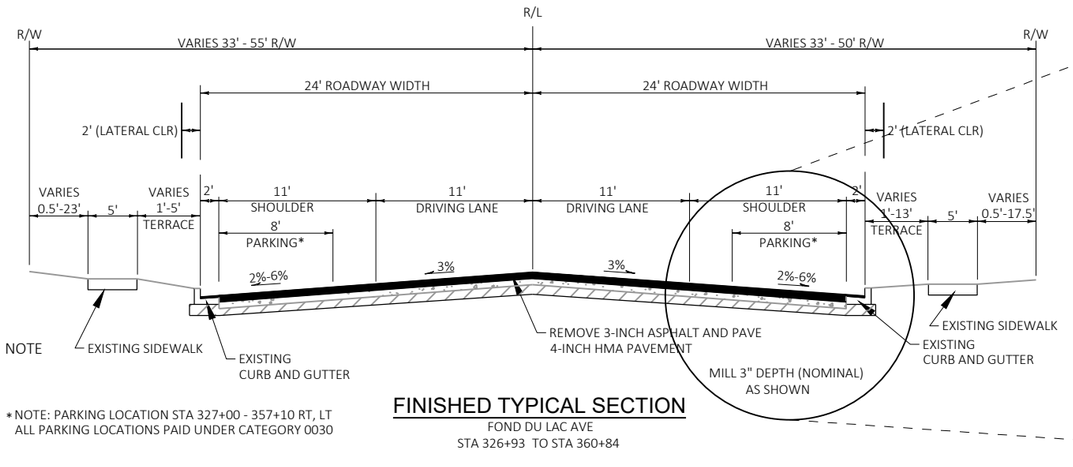
FINISHED TYPICAL SECTION

FOND DU LAC AVE
STA 322+15 TO STA 326+93



FINISHED TYPICAL SUPERELEVATED SECTION

FOND DU LAC AVE
STA 365+50 TO STA 374+50

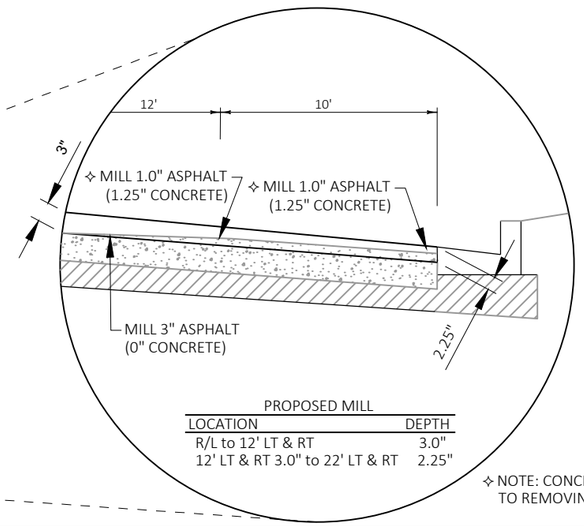


NOTE

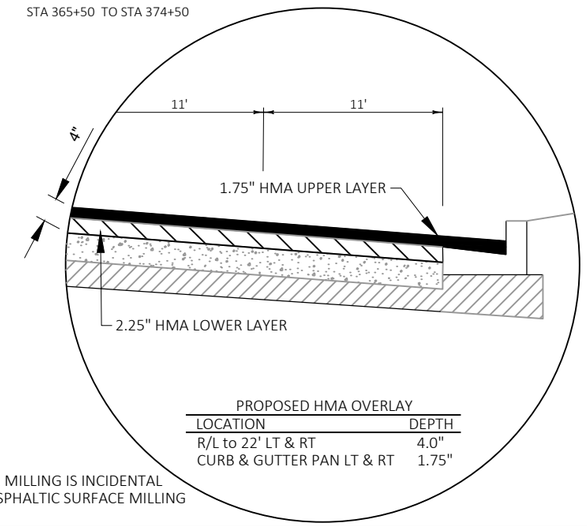
*NOTE: PARKING LOCATION STA 327+00 - 357+10 RT, LT
ALL PARKING LOCATIONS PAID UNDER CATEGORY 0030

FINISHED TYPICAL SECTION

FOND DU LAC AVE
STA 326+93 TO STA 360+84



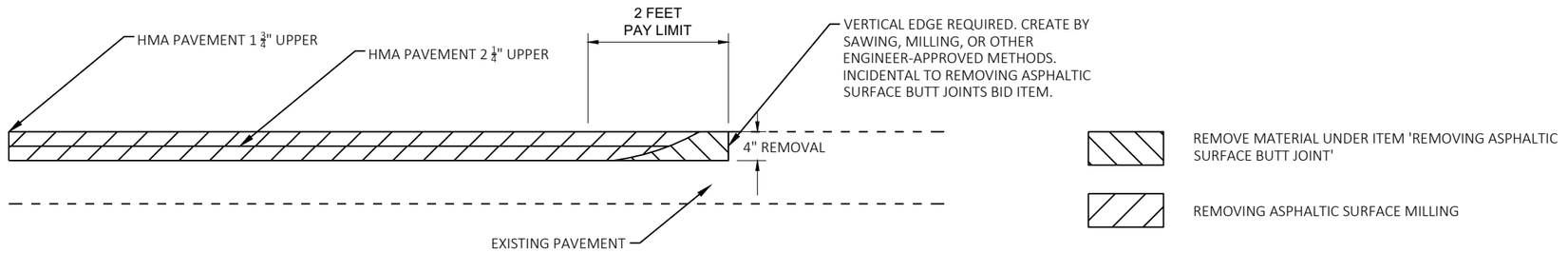
PROPOSED MILL	
LOCATION	DEPTH
R/L to 12' LT & RT	3.0"
12' LT & RT 3.0" to 22' LT & RT	2.25"



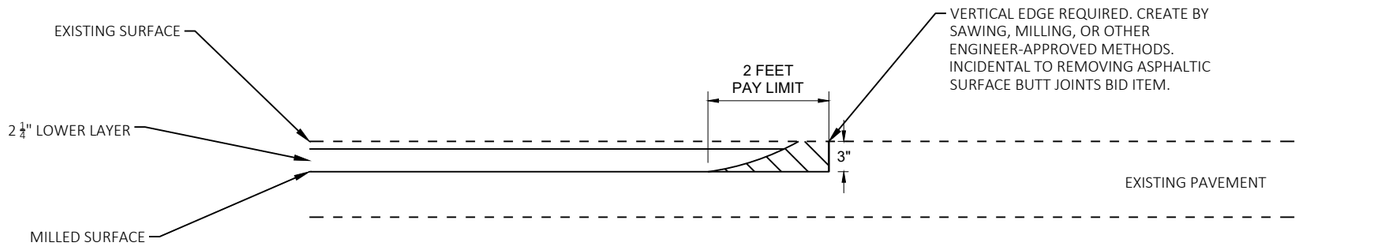
PROPOSED HMA OVERLAY	
LOCATION	DEPTH
R/L to 22' LT & RT	4.0"
CURB & GUTTER PAN LT & RT	1.75"

✧ NOTE: CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING

PROJECT NO: 4070 - 00 - 70	HWY: USH 45	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 5	E

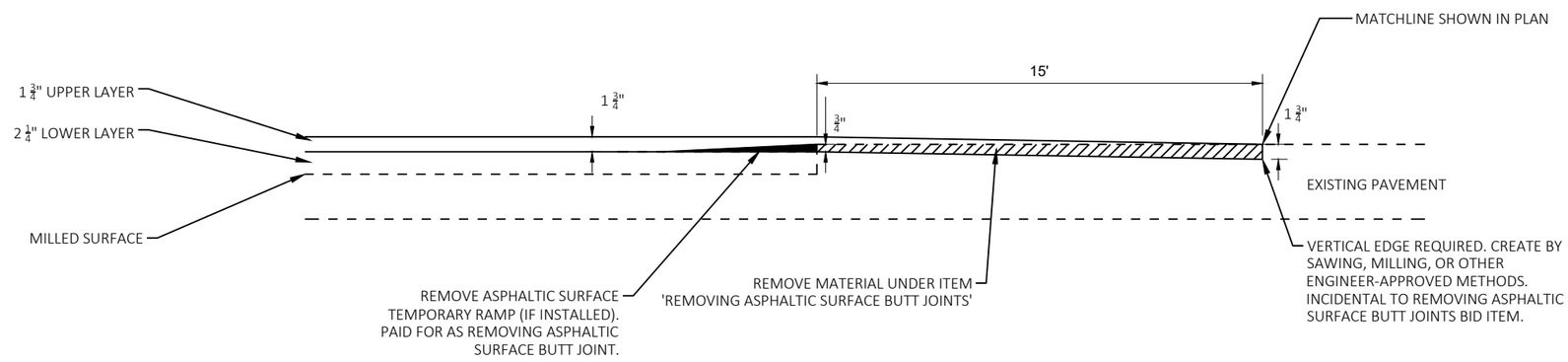


BUTT JOINT - NO CHANGE IN PROFILE



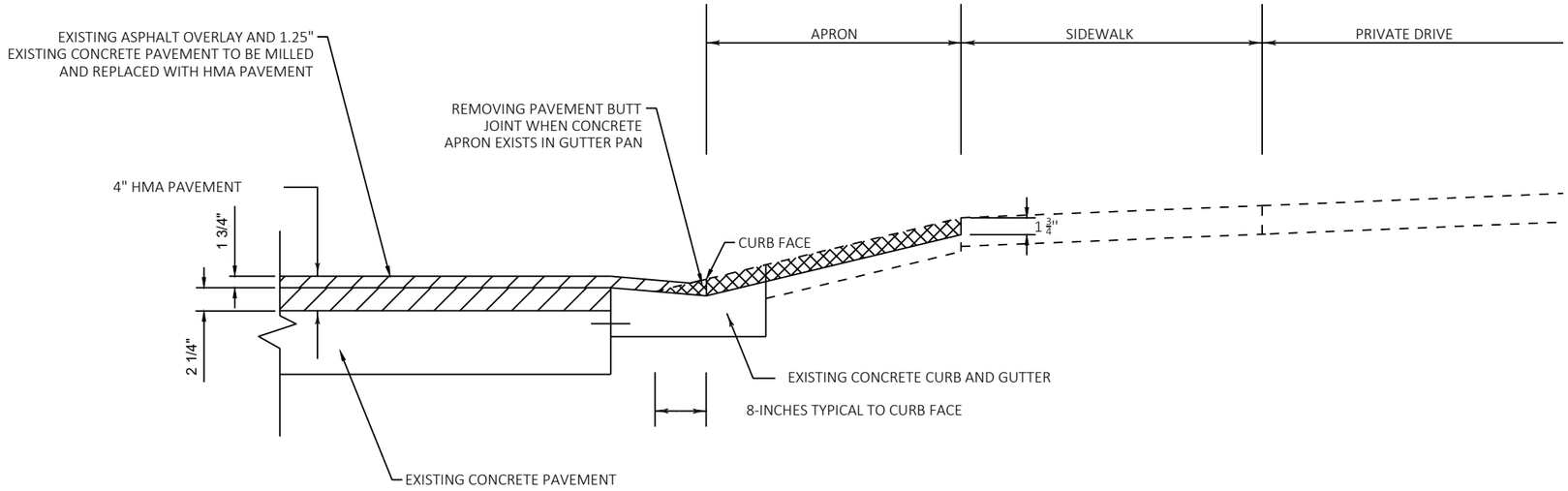
OPERATIONS
- REMOVING ASPHALTIC SURFACE MILLING 3-INCH.
- REMOVING ASPHALTIC SURFACE BUTT JOINT AND PAVE LOWER LAYER.
- REMOVING ASPHALTIC SURFACE BUTT JOINT AND PAVE UPPER LAYER.

MILLING AND PAVING LOWER LAYER



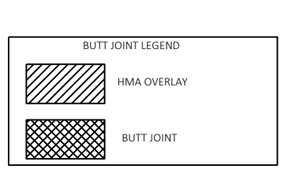
MILLING BUTT JOINT AND PAVING UPPER LAYER

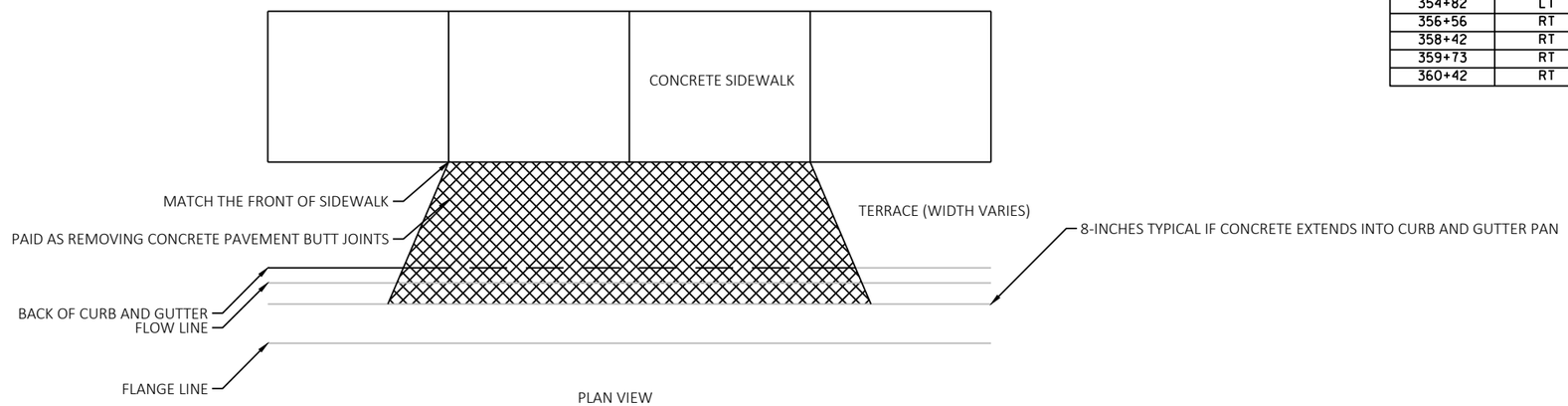
BUTT JOINT - CHANGE IN PROFILE (MILL 3", PAVE 4")



PROFILE VIEW

DRIVEWAYS WHERE CONCRETE APRON EXISTS IN GUTTER PAN	
STATION	OFFSET SIDE
328+02	LT
328+46	LT
328+73	RT
329+53	RT
329+84	RT
330+67	LT
331+02	LT
331+11	RT
331+50	LT
332+28	LT
333+01	LT
336+51	RT
340+25	LT
341+12	LT
343+99	RT
346+34	LT
347+10	LT
348+21	LT
350+18	LT
353+10	LT
354+20	LT
354+82	LT
356+56	RT
358+42	RT
359+73	RT
360+42	RT



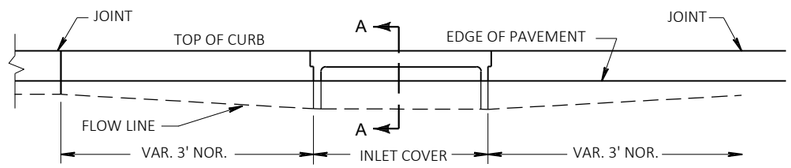


PLAN VIEW

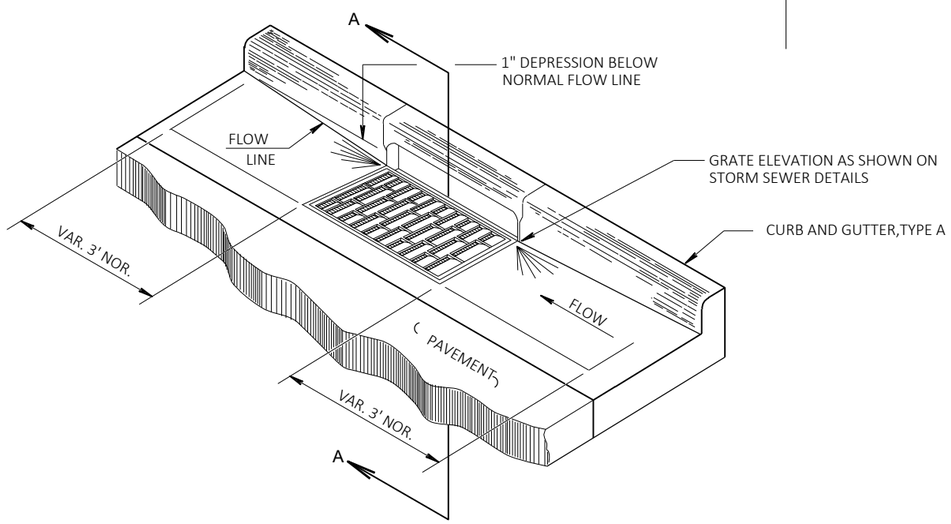
REMOVING PAVEMENT BUTT JOINTS

DRIVEWAYS
STA 326+93 TO STA 360+84, LT/RT

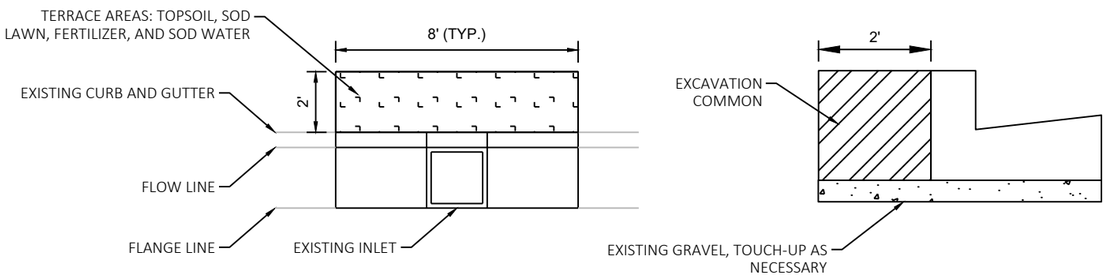
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS	SHEET 7	E



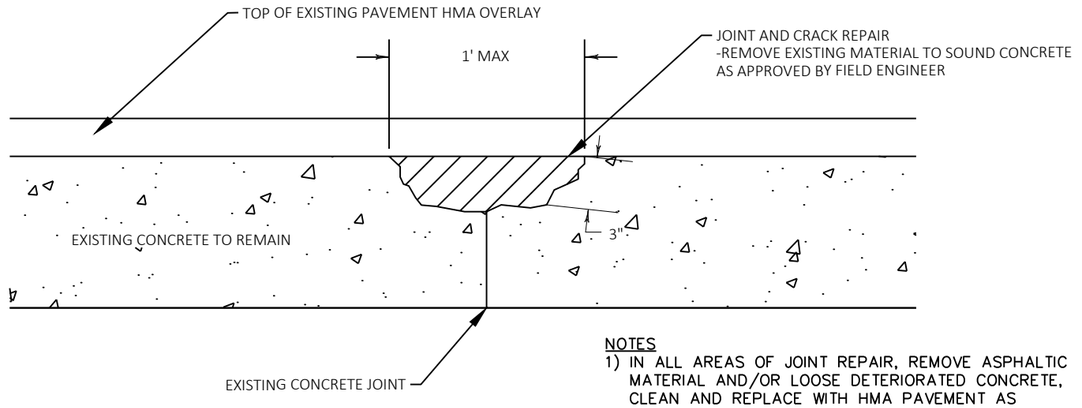
ELEVATION



DETAIL OF CURB AND GUTTER AT INLETS



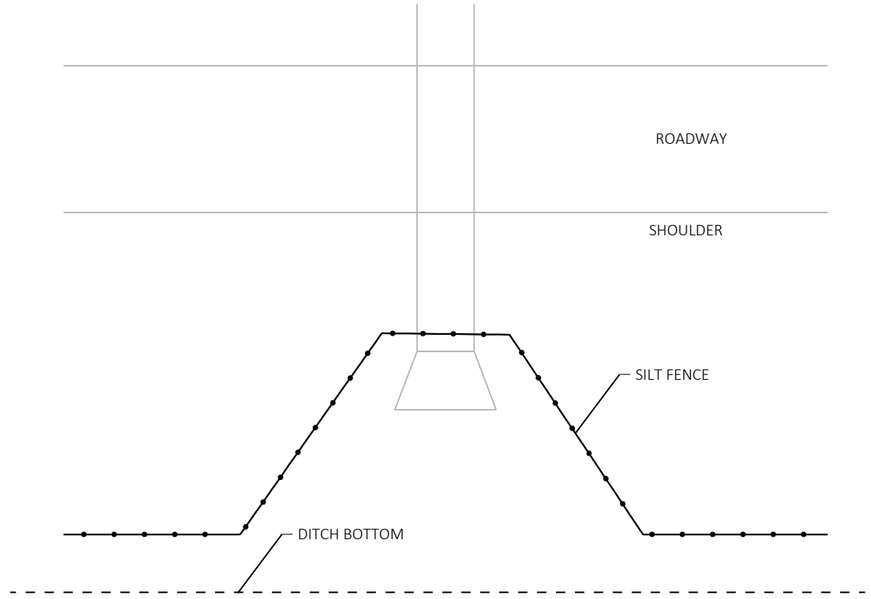
COMMON EXCAVATION AND PERMANENT EROSION CONTROL AT INLETS AND AT SPOT CURB REPAIRS



NOTES
1) IN ALL AREAS OF JOINT REPAIR, REMOVE ASPHALTIC MATERIAL AND/OR LOOSE DETERIORATED CONCRETE, CLEAN AND REPLACE WITH HMA PAVEMENT AS DIRECTED BY THE ENGINEER
2) REMOVAL GREATER THAN 3" TO BE PAID AS BASE PATHCING CONCRETE
3) LOCATIONS FOR JOINT REPAIR TO BE APPROVED BY THE ENGINEER PRIOR TO THE START OF REPAIR WORK

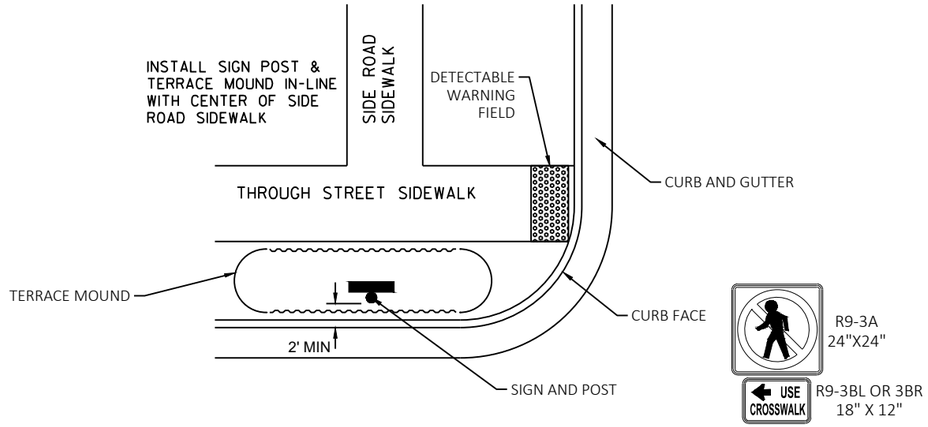
JOINT AND CRACK CLEANING AND REPAIR

LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD



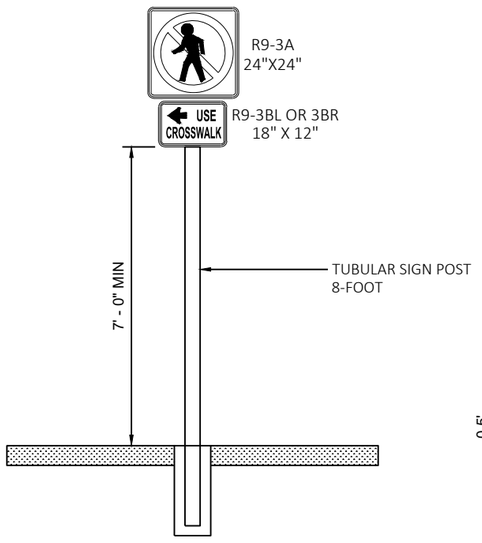
TYPICAL SILT FENCE DETAIL AT PIPE INLET

SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.



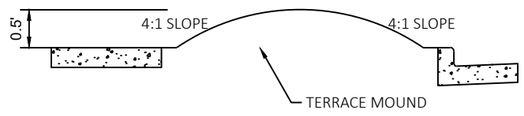
MOUND AND SIGN LOCATION DETAIL

SECOND ST NE



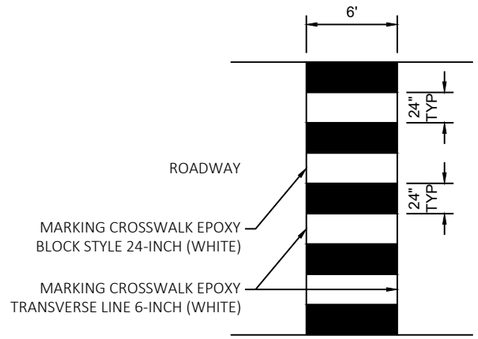
CROSSWALK CLOSURE SIGN

SECOND ST NE



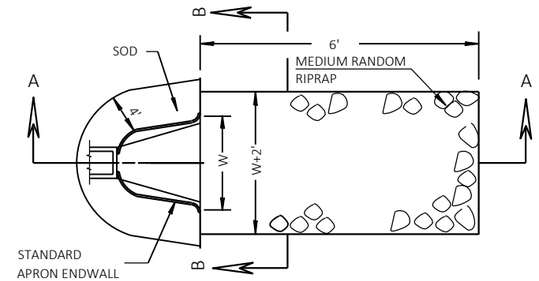
TERRACE MOUND DETAIL

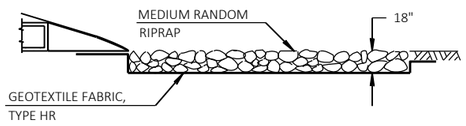
SECOND ST NE



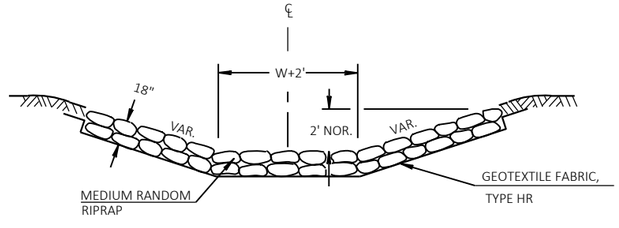
LADDER STYLE CROSSWALK MARKING DETAIL

NORTH AVE





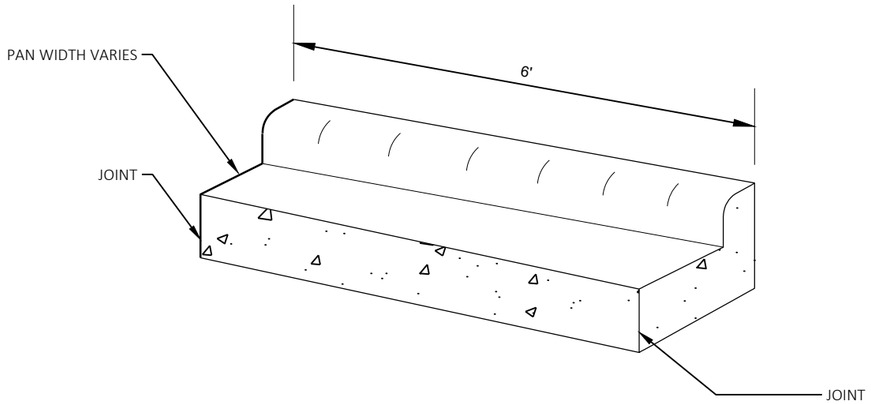
SECTION A-A



SECTION B-B

SOD, MEDIUM RANDOM RIPRAP AND GEOTEXTILE FABRIC DETAIL AT ARPON ENDWALL

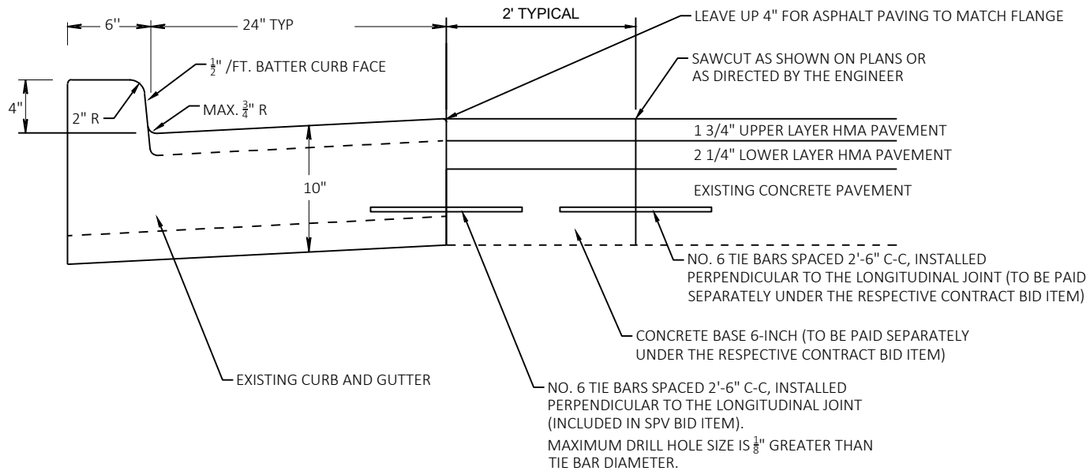
STA 364+00 RT



CURB AND GUTTER TRANSITION DETAIL

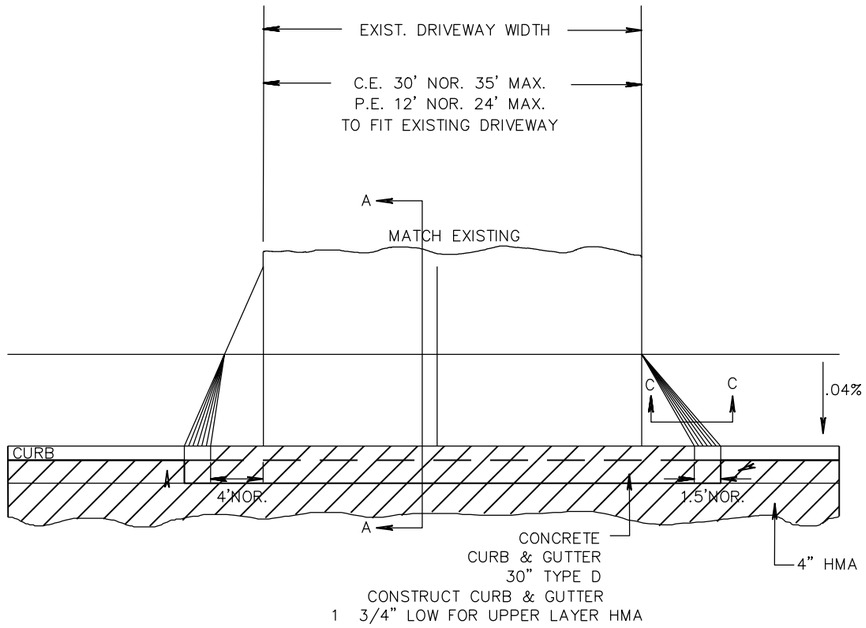
NOTES

1) TRANSITION PROPOSED CURB AND GUTTER TO EXISTING CURB GUTTER IN 6 FEET
2) TRANSITIONS TO BE PAID UNDER STANDARD BID ITEMS

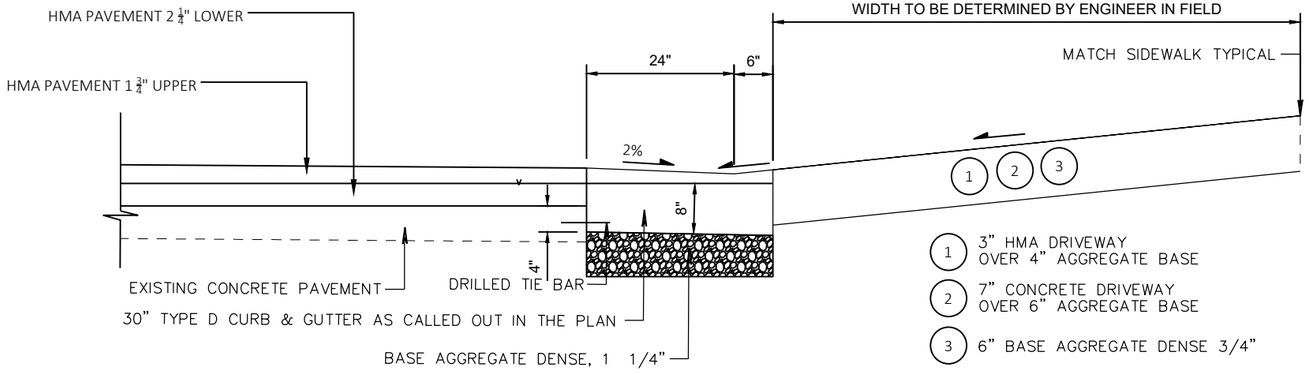


CONCRETE CURB AND GUTTER 30-INCH TYPE A SPECIAL

CONCRETE CURB AND GUTTER AT RADII
STA 326+93 TO STA 360+84, LT/RT
NOT TO SCALE

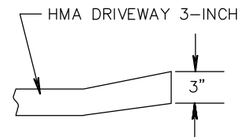


PLAN VIEW



SECTION A–A

PROPOSED DRIVEWAY TO MATCH EXISTING DRIVEWAY MATERIAL



SECTION C–C

NEW DRIVEWAY APRON WITH CURB & GUTTER

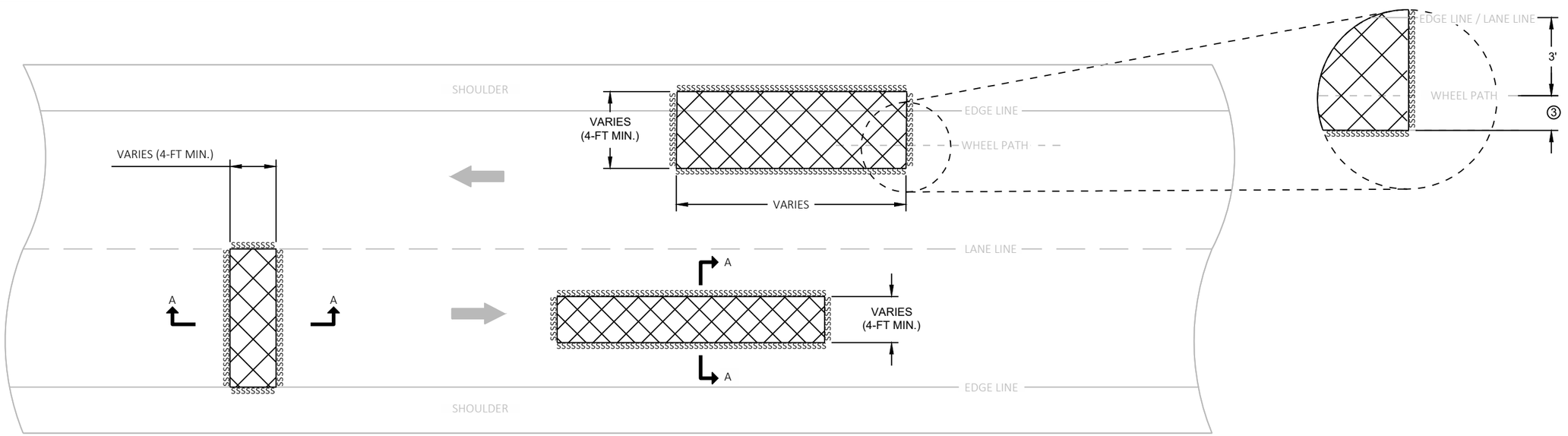
STA 326+93 – 360+84
SEE PLAN FOR EXACT LOCATIONS

LEGEND

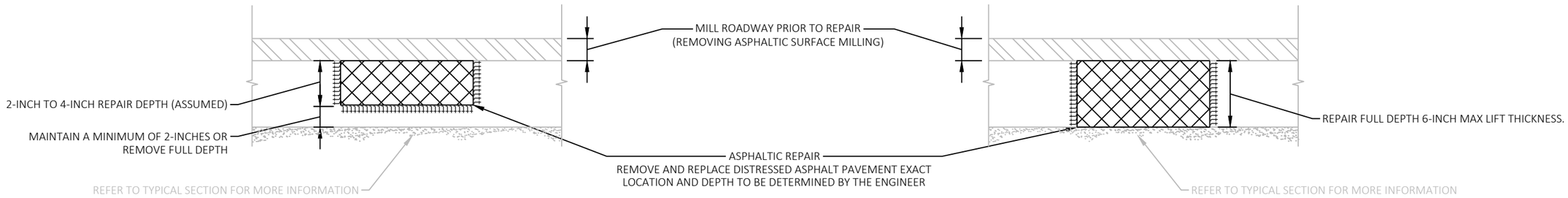
- ASPHALTIC REPAIR
- SSSSSS VERTICAL MILLED EDGE SAW CUTTING AT THE CONTRACTORS DISCRETION
- TTTTTTT TACK COAT

GENERAL NOTES

1. EXACT LOCATION, DEPTH AND SIZE OF REPAIR TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. MILL PAVEMENT PER PLAN PRIOR TO MAKING ASPHALTIC REPAIR.
3. LOCATE LONGITUDINAL REPAIR JOINTS OUTSIDE OF WHEEL PATH. 12-INCH MINIMUM (24-INCH RECOMMENDED) FROM THE CENTER OF THE WHEEL PATH.
4. ASPHALTIC REPAIR PAVING TO BE DONE ON THE SAME DAY AS REMOVAL.



PLAN VIEW



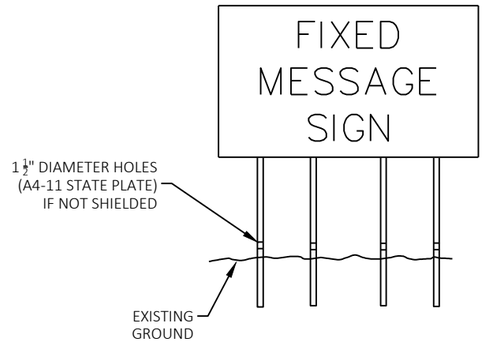
PARTIAL DEPTH

FULL DEPTH

SECTION A-A

ASPHALTIC REPAIR

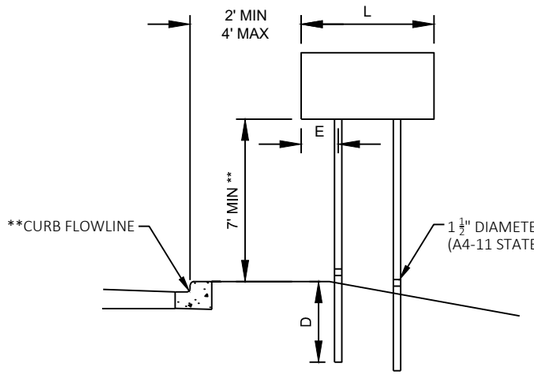
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS	SHEET 11	E



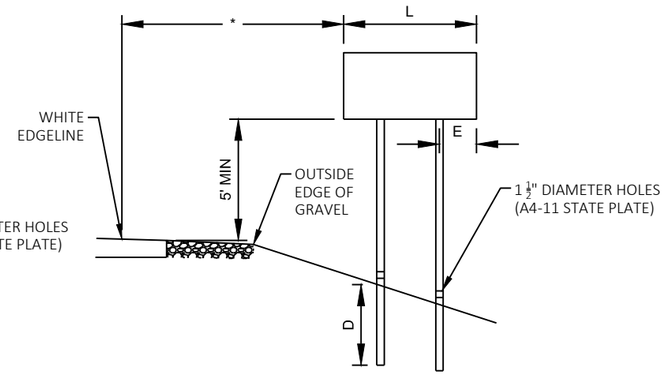
FRONT VIEW

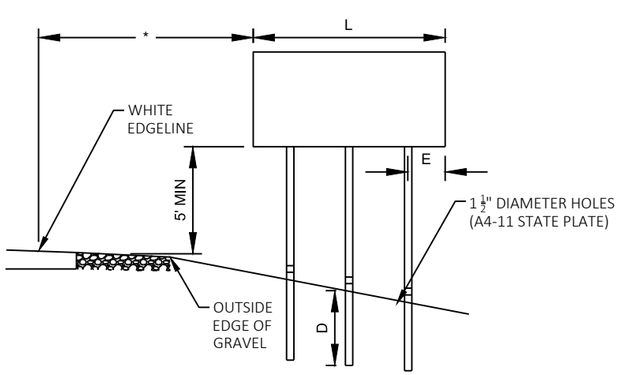
NOTES:

1. SEE TRAFFIC CONTROL SHEETS FOR SIGN LOCATIONS
2 SEE TABLES BELOW FOR REQUIRED NUMBER OF POSTS
* 6' FROM EDGE OF A PAVED SHOULDER OR 12' FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) OR 2' 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. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5' MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOW LINE.
3 4" X 6" WOOD POSTS SHALL HAVE TWO HOLES PER STATE PLATE A4-11



URBAN AREA





RURAL AREA

TWO POST REQURED	
L	E
GREATER THAN 48" LESS THAN 60"	12"
60" TO 120"	L/5

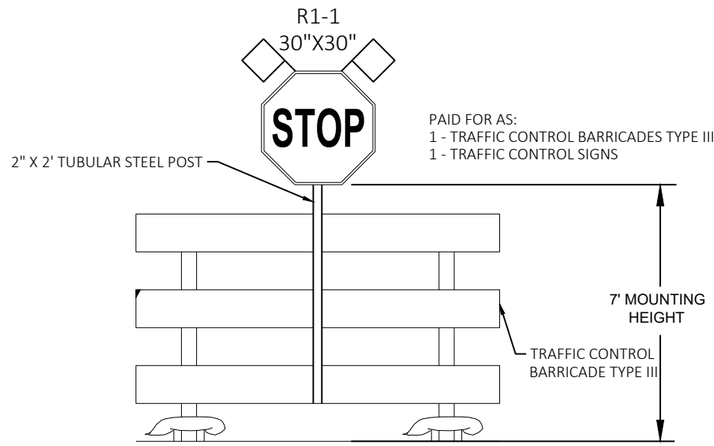
THREE POST REQURED	
L	E
GREATER THAN 120" LESS THAN 168"	12"

FOUR POST REQURED	
L	E
168" AND GREATER	12"

POST EMBEDMENT DEPTH	
AREA OF SIGN INSTALLATION (SFT)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

POST MOUNTING DETAIL FOR TRAFFIC CONTROL FIXED MESSAGE SIGNS

2



TEMPORARY STOP SIGN DETAIL

2

PRIOR TO MILLING AND PAVING.

A. SAWCUT EXISTING PAVEMENT FULL DEPTH.
B. REMOVE AND STORE MANHOLE COVER.
C. FURNISH AND INSTALL TEMPORARY COVER PLATE.
D. BACKFILL USING ASPHALT SURFACE PATCHING.

AFTER PAVING HMA LOWER LAYER(S)

A. REMOVE ASPHALTIC SURFACE PATCHING.
B. EXCAVATE AROUND MANHOLE.
C. ADJUST OR RECONSTRUCT MANHOLE AND RE-INSTALL MANHOLE FRAME AND COVER.
D. POUR MONOLITHIC CONCRETE SHIM SO CONCRETE FILLS IN VOIDS BELOW THE CASTING BETWEEN THE SHIMS.
E. PAVE UPPER LAYER HMA.

PAVEMENT REMOVAL, ASPHALT PATCH REMOVAL, EXCAVATING, PREPARING THE FOUNDATION AND SHIMMING ARE INCIDENTAL TO THE ADJUSTING OR RECONSTRUCTING BID ITEMS.

THE DEPARTMENT WILL PAY SEPARATELY FOR SAWING CONCRETE, COVER PLATES TEMPORARY, ASPHALTIC SURFACE PATCHING, BASE PATCHING CONCRETE SHES AND DRILLED TIE BARS.

MONOLITHIC SHIM CONCRETE, CONCRETE PLACEMENT AND FINISHING IS INCIDENTAL TO THE BASE PATCHING CONCRETE SHES BID ITEM.

PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

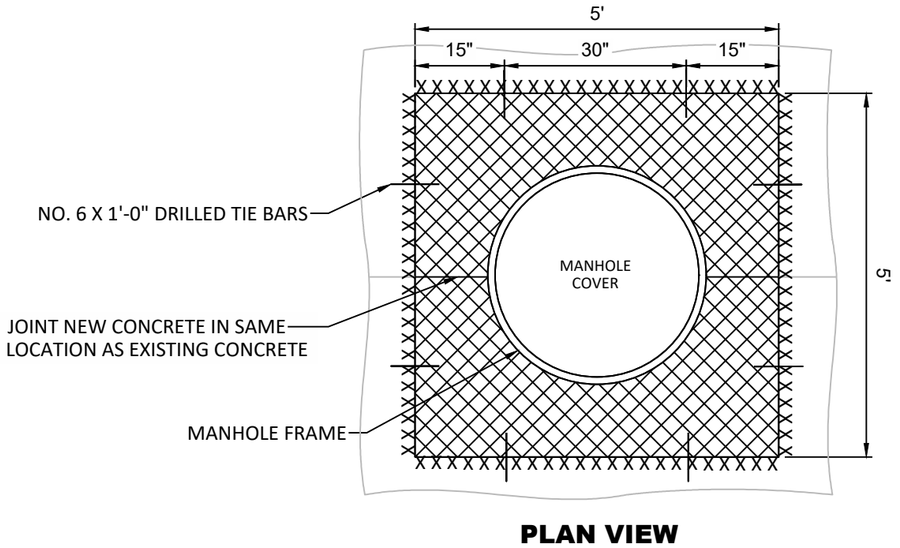
*SAWCUT WILL ONLY BE PAID ONCE. REMOVE ASPHALT SURFACE PATCHING MATERIAL TO THE ORIGINAL SAWCUT LIMITS.

X X X SAWING CONCRETE

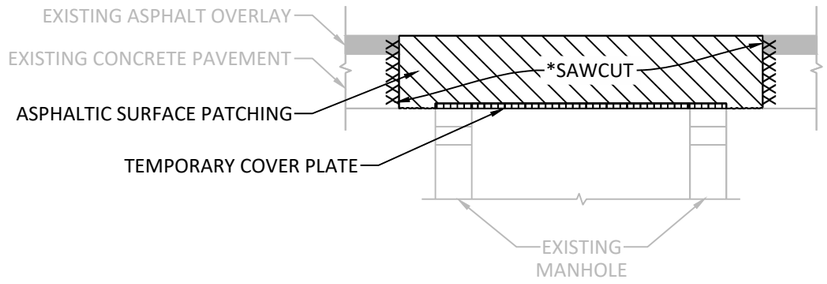
REMOVING PAVEMENT
(INCIDENTAL TO ADJUSTING / RECOSNTRUCTING BID ITEMS)

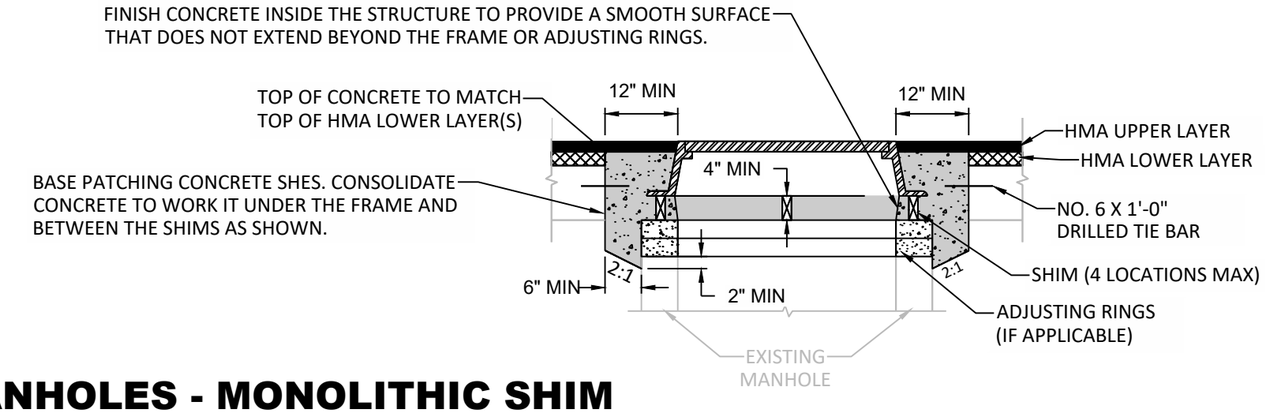
ASPHALTIC SURFACE PATCHING

MONOLITHIC CONCRETE



PLAN VIEW





ADJUSTING / RECONSTRUCTING MANHOLES - MONOLITHIC SHIM

2

2

CLINTON ST

ELM ST

28+00

29+00

30+00

31+00

27+00

331+00

332+00

333+00

334+00

335+00

336+00

SEE NOTICE TO CONTRACTOR - CONTAMINATED BEYOND PROJECT LIMIT DEPTHS

SEE NOTICE TO CONTRACTOR - CONTAMINATED BEYOND PROJECT LIMIT DEPTHS

LEGEND

PETROLEUM CONTAMINATED SOIL BEYOND THE CONSTRUCTION LIMITS

SOLID WASTE BEYOND CONSTRUCTION LIMITS

FOR INFORMATION ONLY

- CONTAMINATED SOILS ARE ANTICIPATED TO BE BEYOND THE PROJECT LIMIT DEPTHS.

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - HAZMAT SOILS	SHEET 15	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021001-CD6.DWG
LAYOUT NAME - 01

PLOT DATE : 7/24/2023 12:47 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

PROSPECT ST

POST

POST

32+00

336+00

337+00

338+00

339+00

340+00

341+00

342+0

33+00

34+00

SEE NOTICE TO CONTRACTOR - CONTAMINATED BEYOND PROJECT LIMIT DEPTHS

SEE NOTICE TO CONTRACTOR - CONTAMINATED BEYOND PROJECT LIMIT DEPTHS

LEGEND

PETROLEUM CONTAMINATED SOIL BEYOND THE CONSTRUCTION LIMITS

SOLID WASTE BEYOND CONSTRUCTION LIMITS

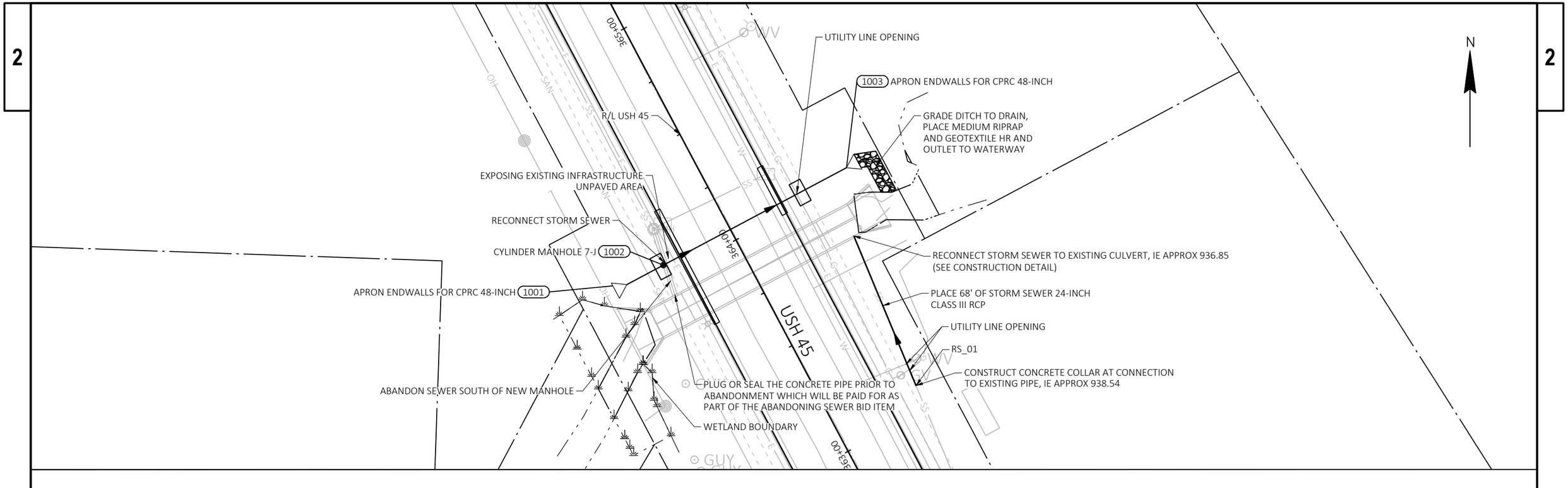
FOR INFORMATION ONLY

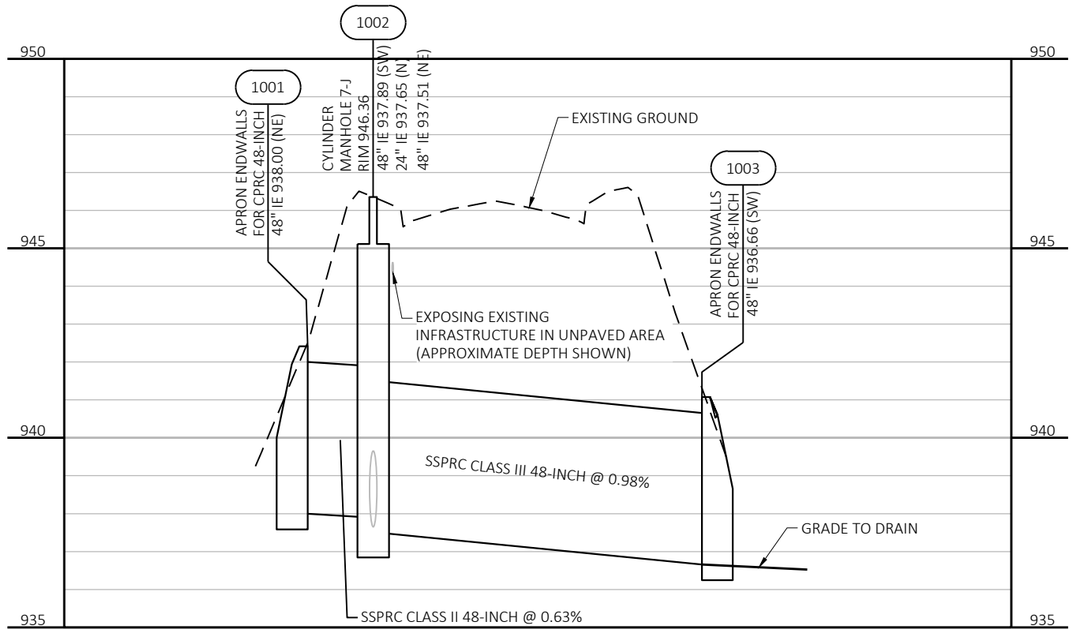
- CONTAMINATED SOILS ARE ANTICIPATED TO BE BEYOND THE PROJECT LIMIT DEPTHS.

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS- HAZMAT SOILS	SHEET 16	E

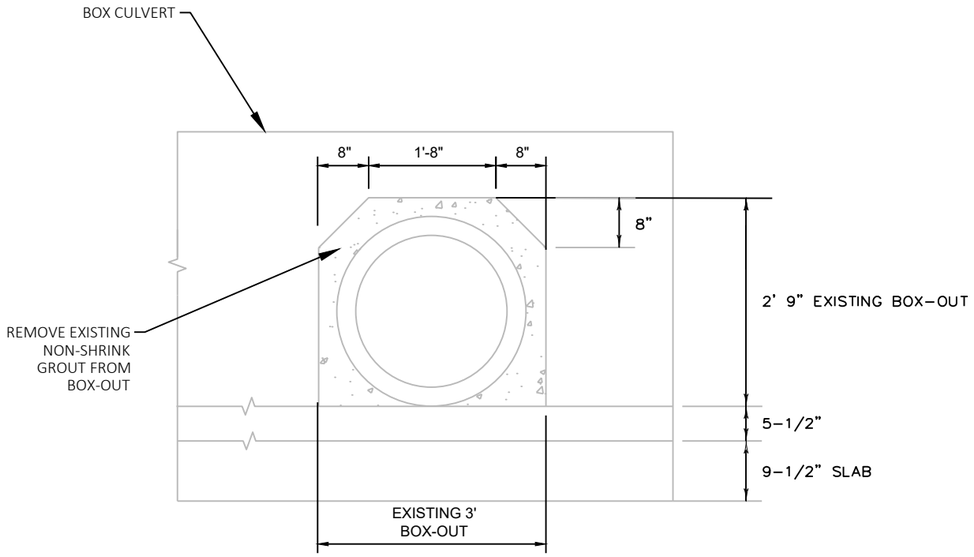
FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021001-CD6.DWG
LAYOUT NAME - 02

PLOT DATE : 7/24/2023 12:47 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

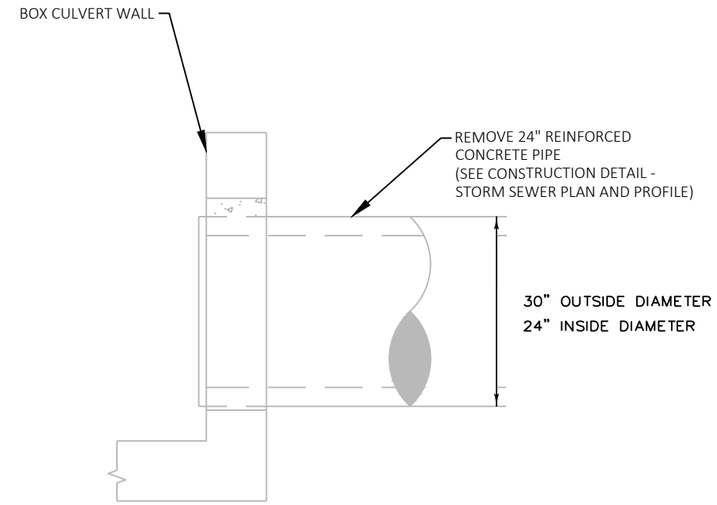




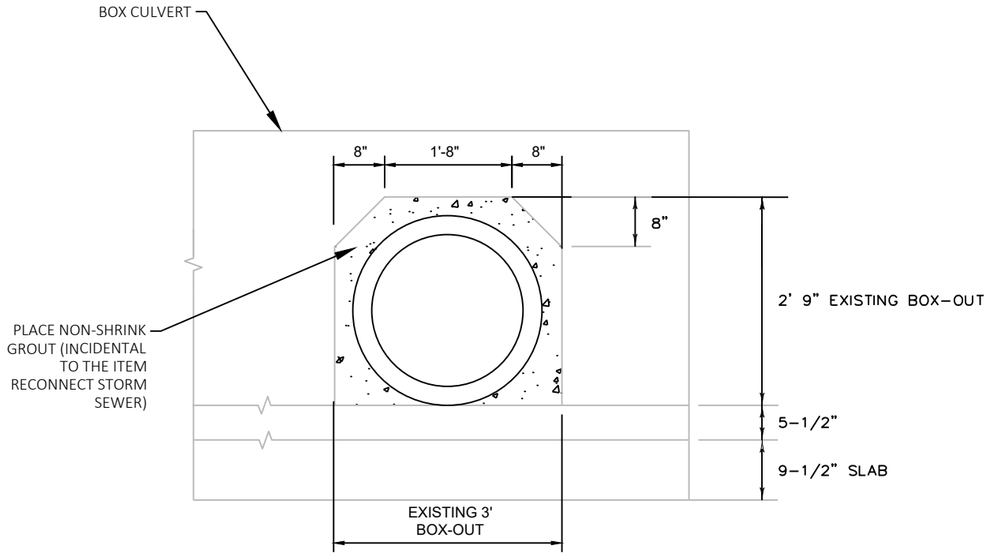
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAIL: STORM SEWER PLAN AND PROFILE	SHEET 17	E



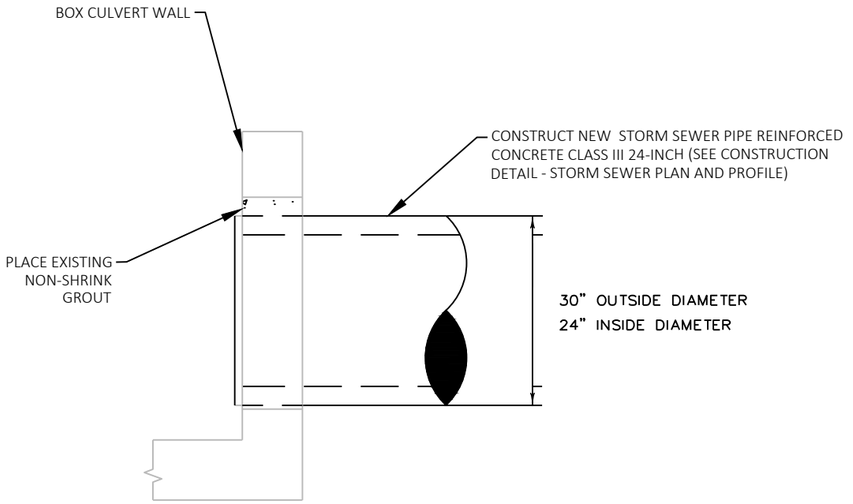
DETAIL – EXISTING BOX CULVERT BOX-OUT AND REMOVALS



SECTION – EXISTING BOX-OUT



DETAIL – RECONNECT STORM SEWER



SECTION – BOX-OUT

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

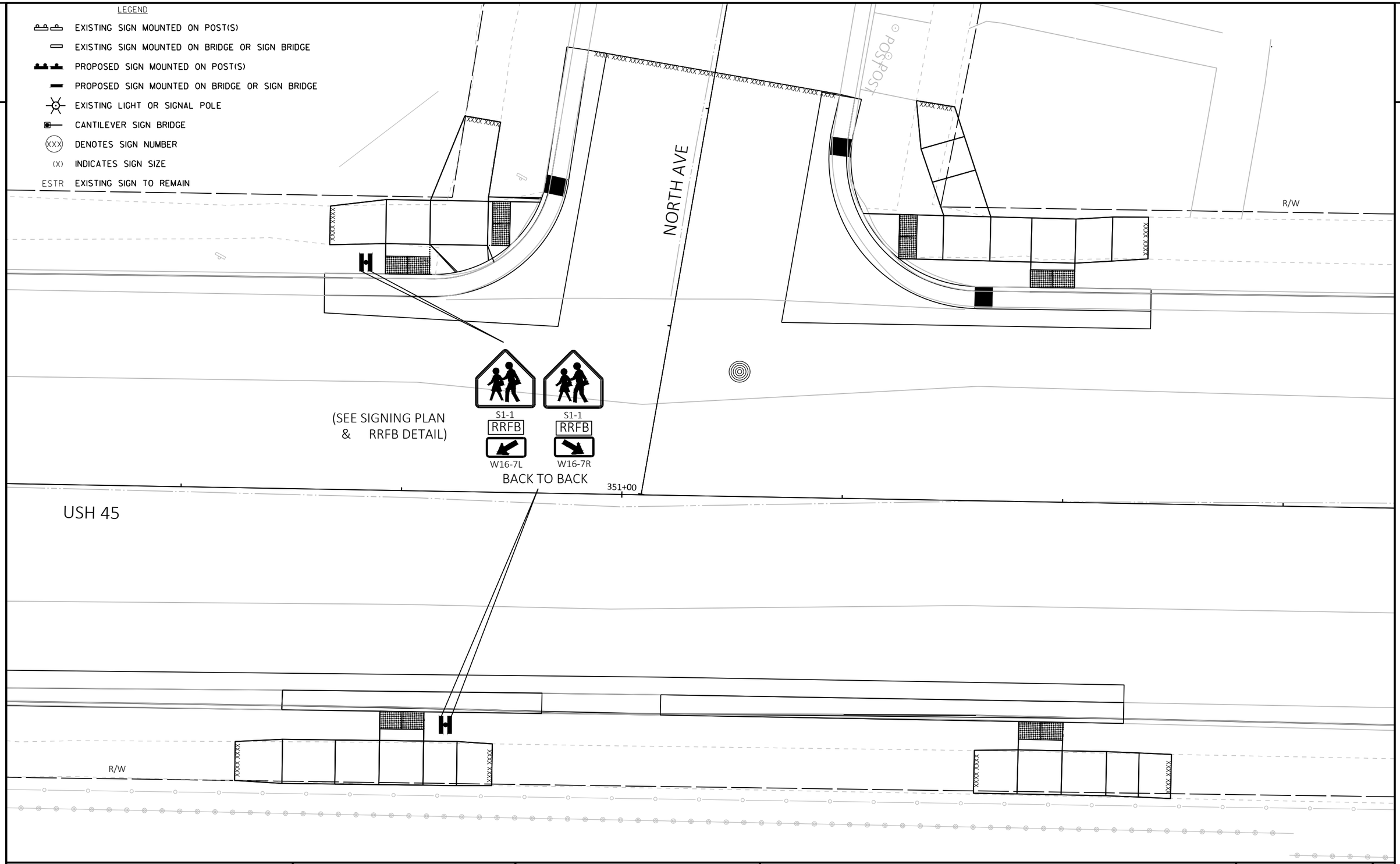
EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN



(SEE SIGNING PLAN & RRFB DETAIL)

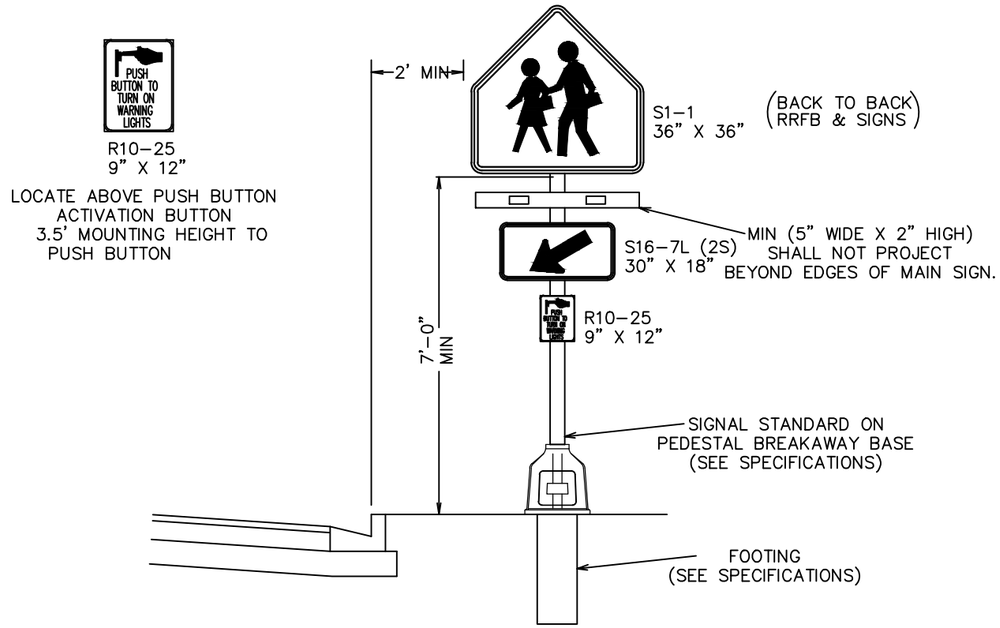
2

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAIL: RRFB LOCATION DETAIL	SHEET 19	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\021001-CD3.DWG
LAYOUT NAME - 10

PLOT DATE : 10/21/2022 2:12 PM PLOT BY : PINTER, ANDREW D PLOT NAME : PLOT SCALE : 1:10

2



RECTANGULAR RAPID
FLASHING BEACON
URBAN LOCATION

NOTE:
1. USE ARROW S16-7R FOR LEFT SIDE MOUNTING
2. SOLAR RECTANGULAR RAPID FLASHING BEACON SYSTEM REQUIRED.

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- XXXXXXXXX SAWING

CTH H WEST

EXISTING R/W

ASPHALTIC REPAIR, REMOVAL FOR LOOP DETECTOR REPLACEMENT

48+85

49+00

49+26, 22.5' RT

SEE SIGNAL PLANS FOR SIGNAL REMOVALS

313+35, 53.1' LT

314+39, 65.5' LT

±26

±15

±32

±78

±72

±73

±81

ASPHALTIC REPAIR, REMOVAL FOR LOOP DETECTOR REPLACEMENT

REMOVALS FOR LOOP DETECTOR REPLACEMENT

REMOVING ASPHALTIC SURFACE MILLING

313+00 314+00 315+00 316+00 317+00 318+00

MATCH LINE STA 318+75

BEGIN CONSTRUCTION, MATCH CONCRETE PAVEMENT

±30 ±14 ±27 ±38 ±40

±39 ±06 ±09 ±16 ±16 ±39 ±57 ±60

±45 ±89

+315+67, 38' RT

EXISTING R/W

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 21	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 01

PLOT DATE : 7/31/2023 3:15 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

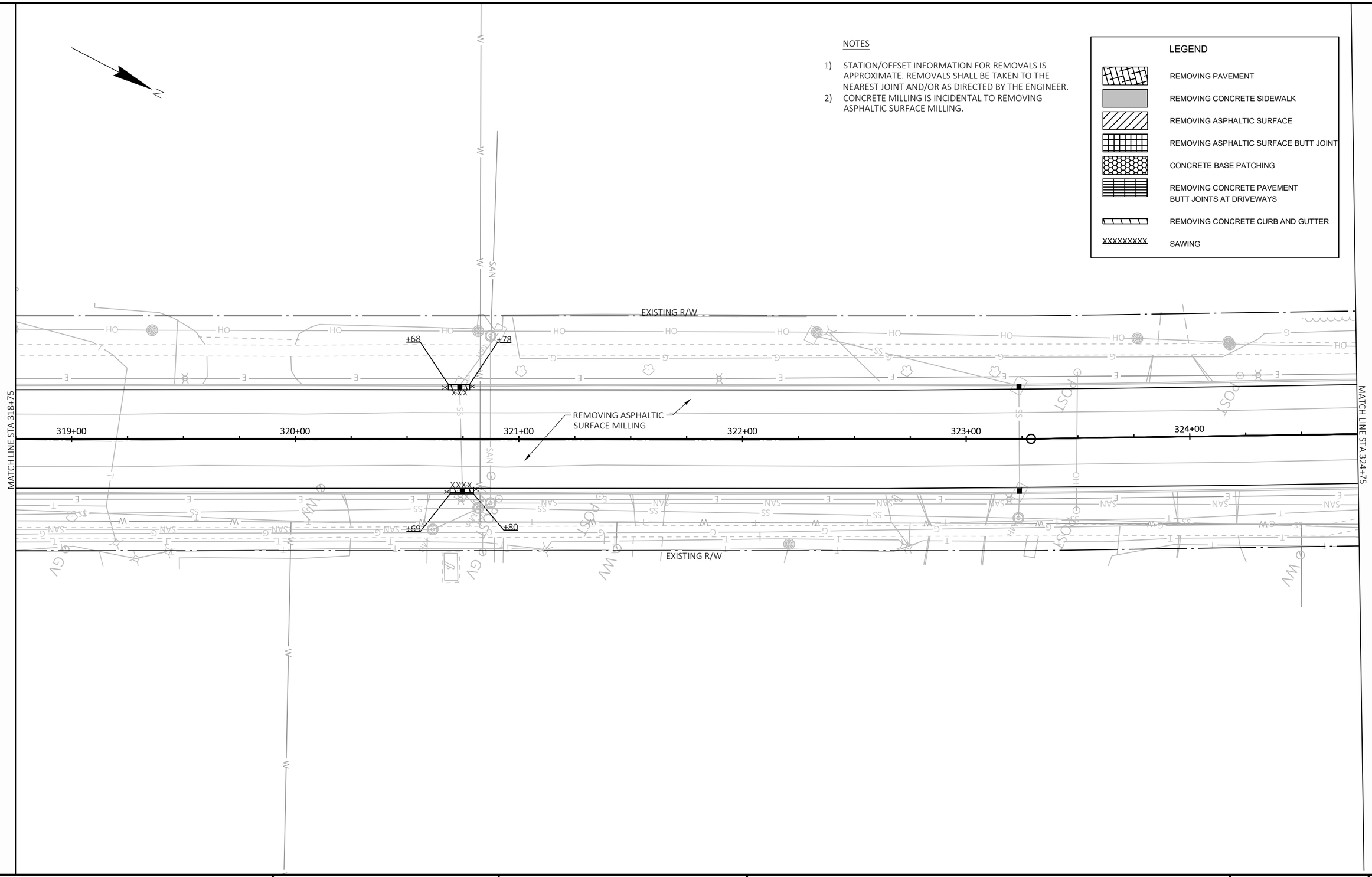
2

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- XXXXXXXXX SAWING



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 22	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 02

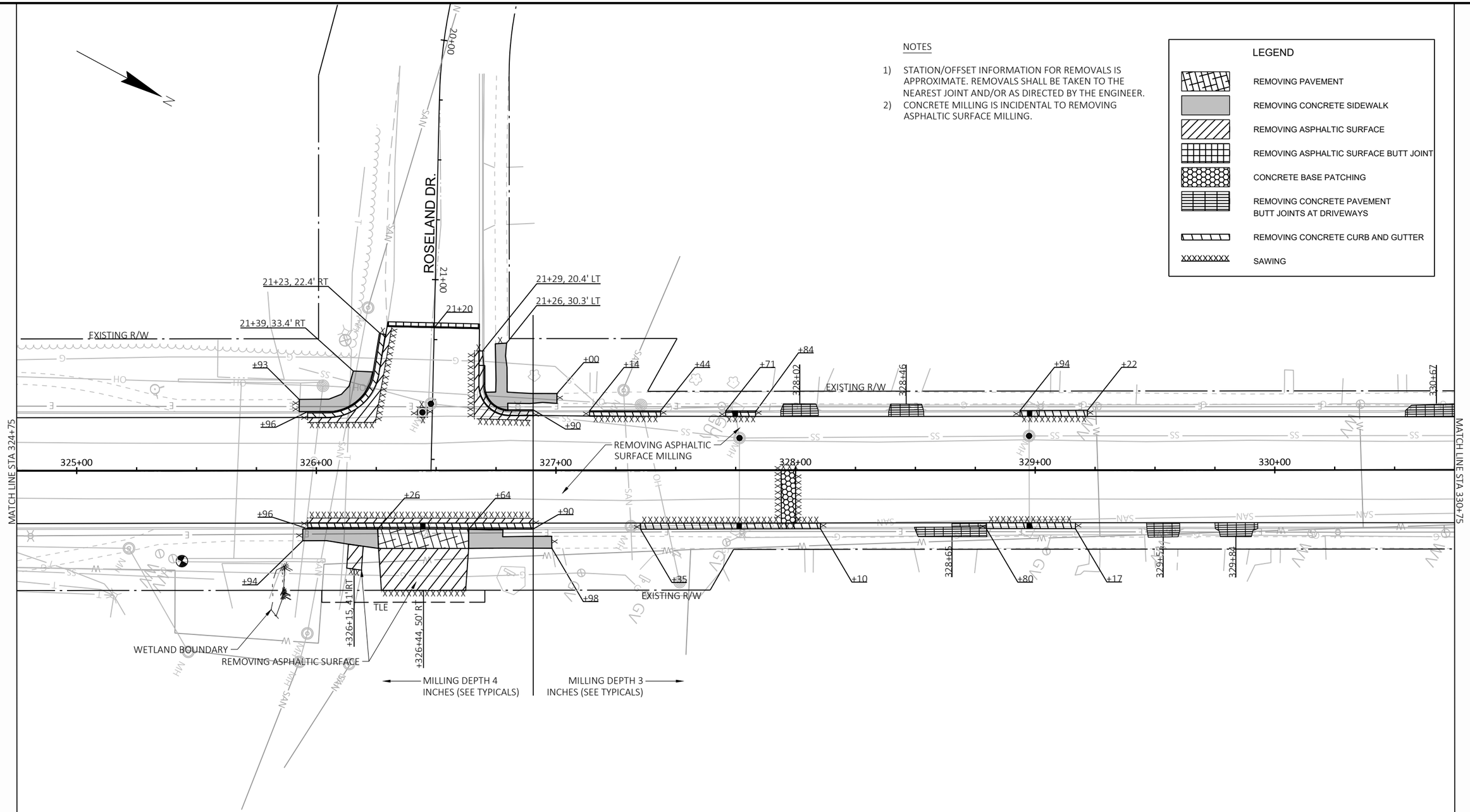
PLOT DATE : 7/31/2023 3:15 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- XXXXXXXXX SAWING



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 23	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 03

PLOT DATE : 7/31/2023 3:15 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- SAWING

CLINTON ST

ELM ST

MATCH EXISTING

REMOVING ASPHALTIC SURFACE MILLING

REMOVING INLET

BENCH TO BE REMOVED BY VILLAGE

REMOVING CONCRETE SIDEWALK

EXISTING R/W

MATCH LINE STA 330+75

MATCH LINE STA 336+75

331+00 332+00 333+00 334+00 335+00 336+00

28+00 27+00 29+00 30+00 31+00

331+02 331+26, 36 LT 331+50 332+28 333+01 333+47, 28 LT 334+23, 45.0' LT 334+23, 34.0' LT 334+08, 34.0' LT 29+32 29+27, 24.7' LT 27+39, 23.4' RT 27+46 27+36, 22.3' LT 30+29, 24.2' RT 30+29, 24.3' LT 30+30

TLE FFE

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 24 E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 04

PLOT DATE : 7/31/2023 3:15 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- SAWING

PROSPECT ST

MATCH EXISTING

SAWCUT 1-FOOT OFF BACK OF SIDEWALK

EXISTING R/W

REMOVING ASPHALTIC SURFACE MILLING

REMOVAL FOR LOOP DETECTOR REPLACEMENT

MATCH EXISTING

STH 28 EAST

MATCH LINE STA 336+75

MATCH LINE STA 342+75

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 25	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 05

PLOT DATE : 7/31/2023 3:15 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- SAWING

FOREST AVE.

39+00

MATCH EXISTING

39+70

39+72, 20.6' RT

39+69, 15.9' LT

39+69, 20.7' LT

TLE

EXISTING R/W

REMOVING INLET

40+00

MATCH LINE STA 342+75

343+00

344+00

345+00

346+00

347+00

348+00

MATCH LINE STA 348+50

REMOVAL FOR LOOP DETECTOR REPLACEMENT

REMOVING ASPHALTIC SURFACE MILLING

79+00

79+30

78+88, 23.9' LT

78+91, 26.9' LT

SEE SIGNAL PLANS FOR SIGNAL REMOVALS

MATCH EXISTING

PROTECT EXISTING SPRINKLER HEADS

42+74, 21.6' RT

42+66

42+35, 16.8' LT

42+40, 16.9' LT

1ST ST.

43+00

44+00

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 26	E

2

2

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- XXXXXXXXX SAWING

NORTH AVE.

MATCH EXISTING

REMOVING INLET

46+79

46+69, 27.1' LT

46+80, 27.4' RT

EXISTING R/W

TLE

FEE

REMOVING ASPHALTIC SURFACE MILLING

MATCH LINE STA 348+50

MATCH LINE STA 354+50

349+00 350+00 351+00 352+00 353+00 354+00

REMOVING INLET

EXISTING R/W

349+21, 35.6' RT

349+40, 36.0' RT

46+03, 29.3' RT

45+99, 24.8' RT

45+98

45+81, 17.7' LT

45+85, 22.6' LT

AS DIRECTED BY ENGINEER, USE ITEM SPV.0090.04 REMOVE, STORE, AND REINSTALL CHAIN LINK FENCE FABRIC WHERE NEEDED TO RECONSTRUCT SIDEWALK

MATCH EXISTING

2ND ST.

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 27	E

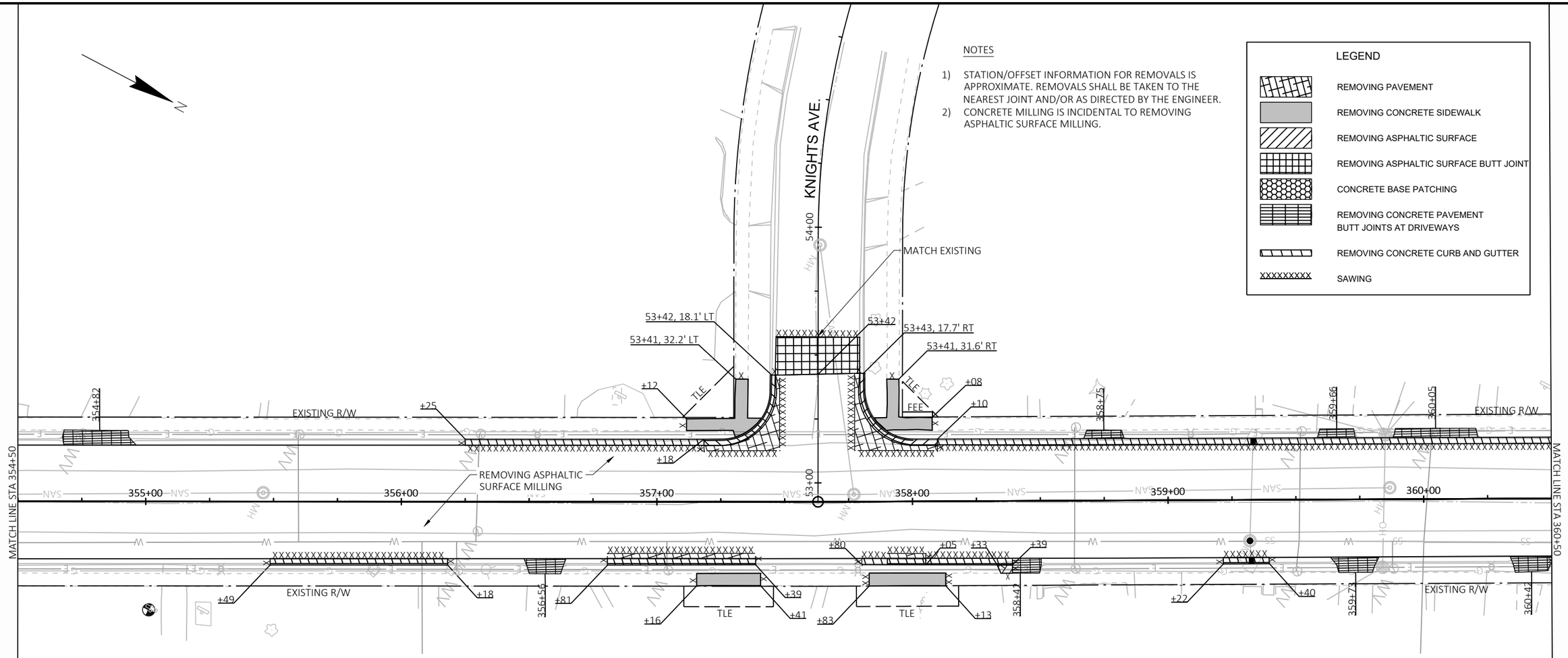
2

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- SAWING



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 28	E

2

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- XXXXXXXXX SAWING

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

N

TRIB. FOR MILWAUKEE RIVER

WETLAND BOUNDARY

EXISTING R/W

+93

+73

+00 +10

+26

SEE CONSTRUCTION DETAIL - STORM SEWER

REMOVING ASPHALTIC SURFACE MILLING

MATCH LINE STA 360+50

361+00

362+00

363+00

364+00

365+00

366

MATCH LINE STA 366+00

+07 +30

+51

+97

+00

+22

+00 +10

EXISTING R/W

REMOVE ONLY IF NECESSARY FOR PIPE REPLACEMENT

MILLING DEPTH 3 INCHES (SEE TYPICALS)

MILLING DEPTH 4 INCHES (SEE TYPICALS)

360+84

TRIB. FOR MILWAUKEE RIVER

2

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 29	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 09

PLOT DATE : 7/31/2023 3:16 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

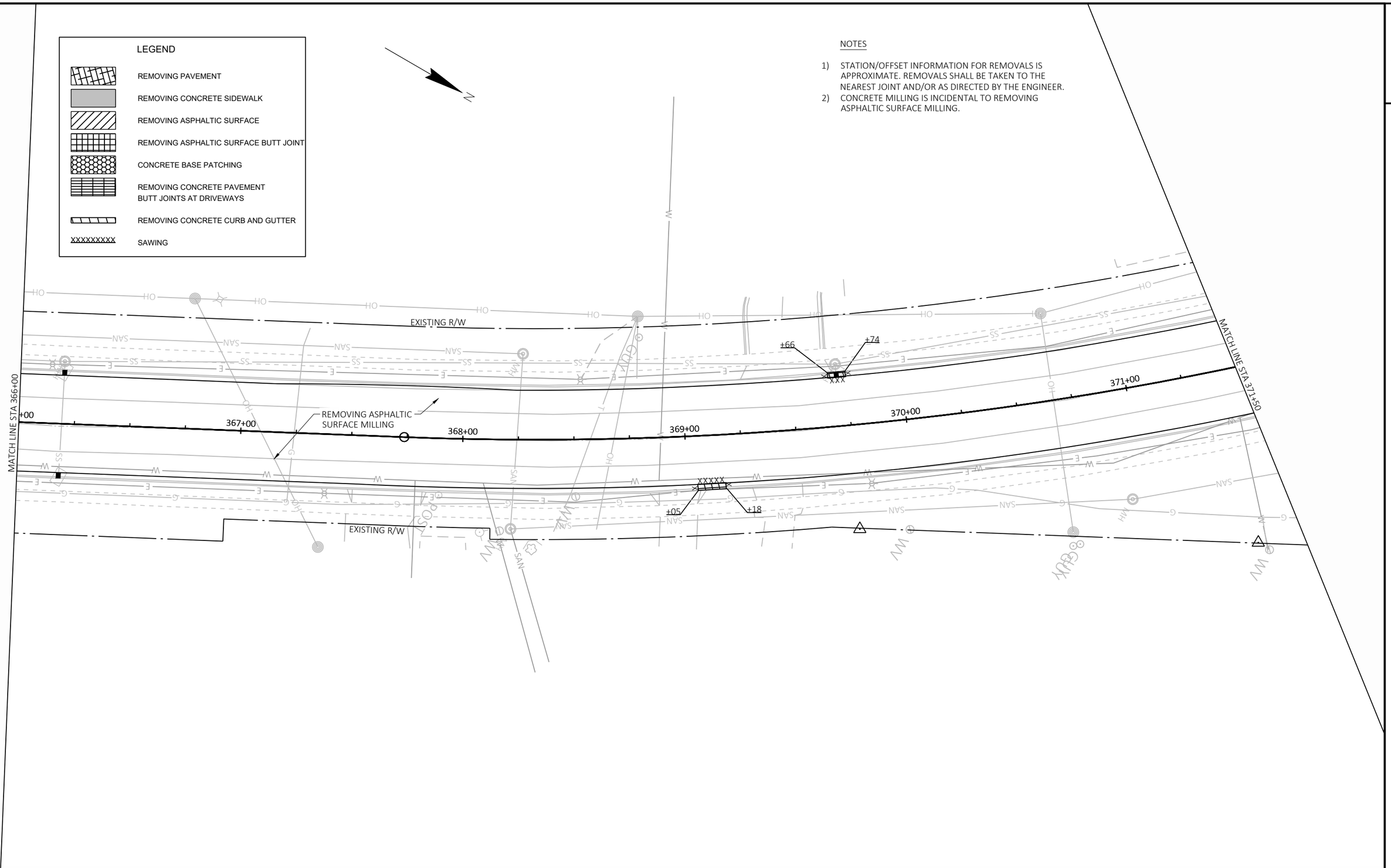
2

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- XXXXXXXXX SAWING

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 30	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 10

PLOT DATE : 7/31/2023 3:16 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- CONCRETE BASE PATCHING
- REMOVING CONCRETE PAVEMENT BUTT JOINTS AT DRIVEWAYS
- REMOVING CONCRETE CURB AND GUTTER
- XXXXXXXXX SAWING

NOTES

1) STATION/OFFSET INFORMATION FOR REMOVALS IS APPROXIMATE. REMOVALS SHALL BE TAKEN TO THE NEAREST JOINT AND/OR AS DIRECTED BY THE ENGINEER.
2) CONCRETE MILLING IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING.

N

MATCH LINE STA 371+50

372+00 373+00 374+00 375+00 376+00 377+00

STH 28 WEST

69+74 00+69 70+00 71+00

EXISTING R/W

+26 +26 +46 +41

+93 +93 +03 +22

REMOVING ASPHALTIC SURFACE MILLING

+38 +35 +66

+56 +45

68+62, 39.1' LT

68+56, 19.6' LT

68+62

68+62, 19.3' RT

+65 +09 +83 +95 +15

EXISTING R/W

69+00

OLD FOND DU LAC RD.

70+00

EXISTING R/W

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 31	E

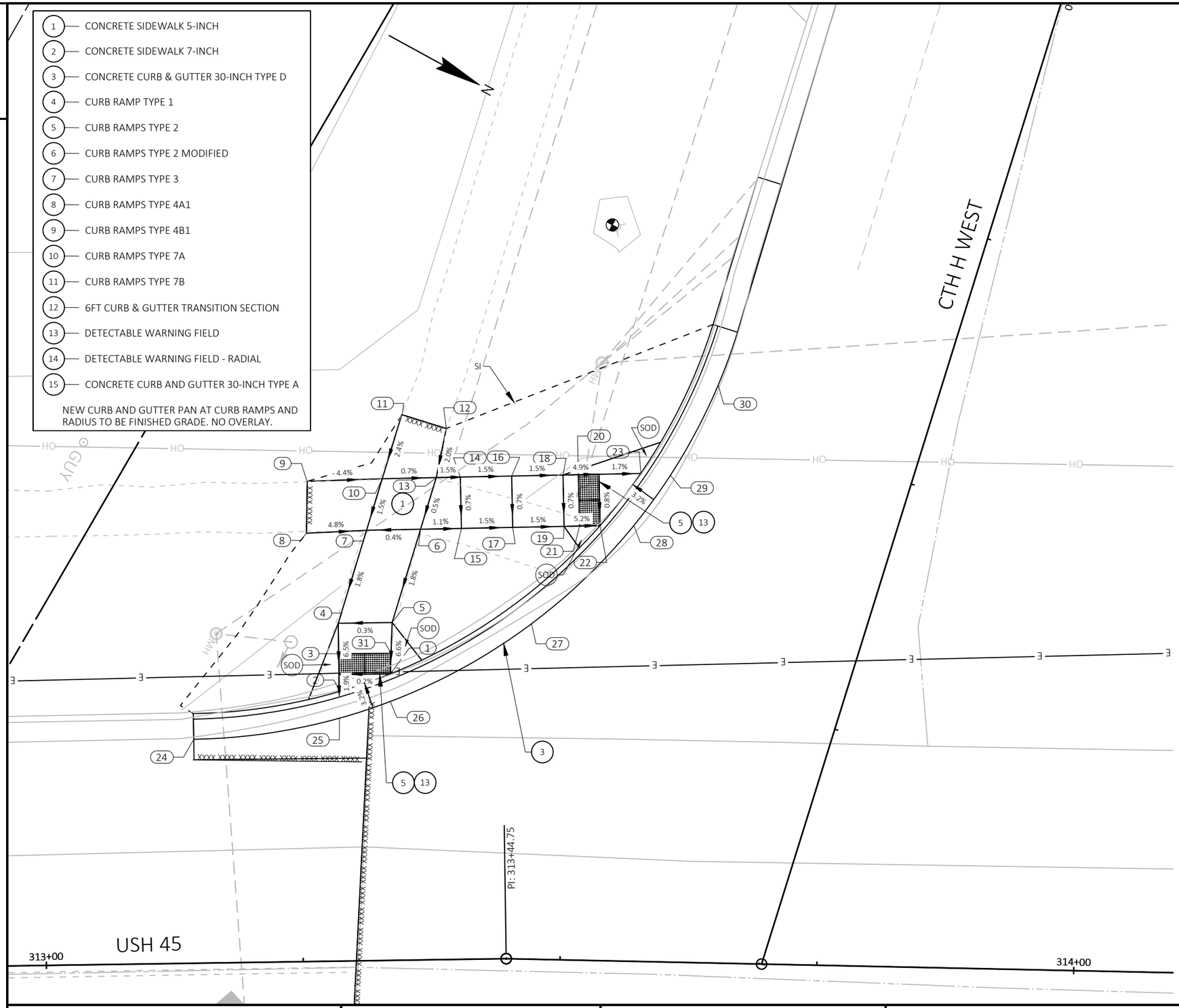
FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 11

PLOT DATE : 7/31/2023 3:16 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

1 — CONCRETE SIDEWALK 5-INCH
2 — CONCRETE SIDEWALK 7-INCH
3 — CONCRETE CURB & GUTTER 30-INCH TYPE D
4 — CURB RAMP TYPE 1
5 — CURB RAMPS TYPE 2
6 — CURB RAMPS TYPE 2 MODIFIED
7 — CURB RAMPS TYPE 3
8 — CURB RAMPS TYPE 4A1
9 — CURB RAMPS TYPE 4B1
10 — CURB RAMPS TYPE 7A
11 — CURB RAMPS TYPE 7B
12 — 6FT CURB & GUTTER TRANSITION SECTION
13 — DETECTABLE WARNING FIELD
14 — DETECTABLE WARNING FIELD - RADIAL
15 — CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

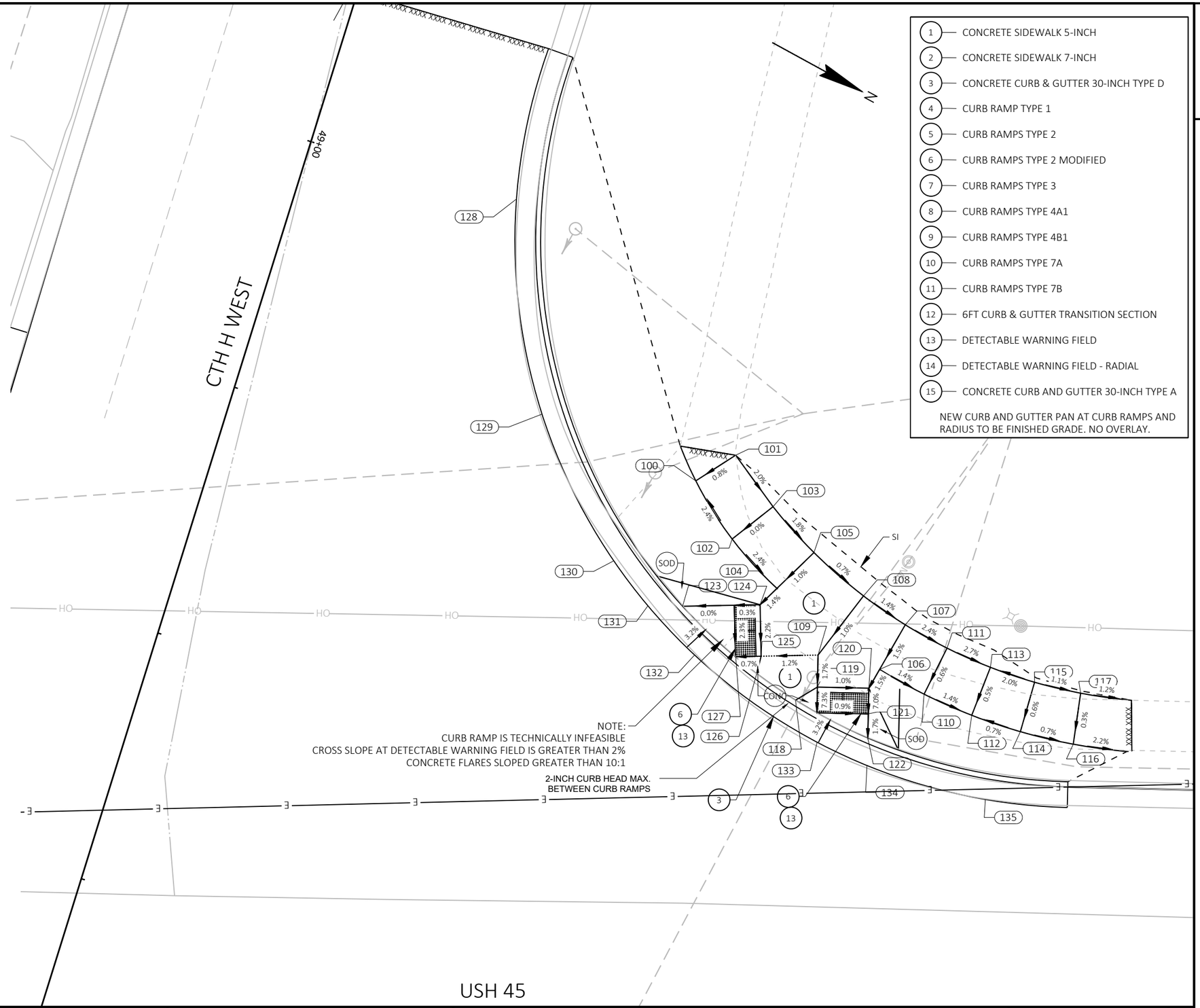


CTHHSW - (1)					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1	313+33.89	27.88' L	966.45	217173.49	351600.60
2	313+28.88	26.35' L	966.41	217169.88	351604.39
3	313+28.90	29.91' L	966.57	217168.15	351601.29
4	313+28.90	32.88' L	966.76	217166.69	351598.70
5	313+34.13	32.88' L	966.78	217171.24	351596.13
6	313+37.03	41.91' L	966.95	217169.31	351586.84
7	313+31.77	41.88' L	966.93	217164.75	351589.46
8	313+25.92	41.69' L	967.21	217159.75	351592.50
9	313+26.06	46.70' L	967.33	217157.41	351588.07
10	313+33.37	46.89' L	967.01	217163.68	351584.31
11	313+35.41	53.08' L	967.17	217162.41	351577.91
12	313+39.68	51.68' L	967.07	217166.81	351577.03
13	313+38.63	46.92' L	966.97	217168.25	351581.69
14	313+40.98	46.93' L	966.94	217170.28	351580.52
15	313+41.01	41.94' L	966.90	217172.77	351584.86
16	313+44.75	46.98' L	966.86	217174.62	351578.04
17	313+44.75	41.98' L	966.83	217177.10	351582.38
18	313+49.30	47.19' L	966.79	217178.95	351575.55
19	313+49.51	42.19' L	966.75	217181.44	351579.89
20	313+50.79	47.24' L	966.71	217180.25	351574.82
21	313+51.01	42.25' L	966.68	217182.74	351579.15
22	313+53.01	42.33' L	966.57	217184.48	351578.15
23	313+56.86	47.50' L	966.54	217185.52	351571.79
24	313+14.66	21.80' L	966.37	217159.75	351615.36
25	313+28.87	23.67' L	966.48	217171.19	351606.74
26	313+33.84	25.21' L	966.52	217174.76	351602.95
27	313+46.54	32.64' L	966.64	217183.21	351589.73
28	313+56.29	42.43' L	966.64	217187.35	351576.55
29	313+59.73	47.40' L	966.62	217188.11	351570.55
30	313+64.21	56.27' L	966.58	217188.00	351560.62
31	313+33.98	29.87' L	966.58	217172.59	351598.82

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

CTH H NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
100	314+35.14	62.89' L	965.72	217247.90	351522.05
101	314+38.96	65.47' L	965.68	217250.10	351518.01
102	314+38.79	57.32' L	965.56	217253.70	351525.32
103	314+42.69	60.54' L	965.56	217255.68	351520.66
104	314+43.32	52.54' L	965.40	217259.92	351527.47
105	314+46.77	56.16' L	965.45	217261.32	351522.66
106	314+53.38	44.95' L	965.26	217272.35	351529.57
107	314+55.78	49.34' L	965.34	217272.46	351524.57
108	314+51.66	52.06' L	965.41	217267.55	351524.05
109	314+47.38	46.22' L	965.33	217266.44	351531.21
110	314+57.75	42.64' L	965.19	217277.30	351529.61
111	314+59.89	47.16' L	965.23	217277.11	351524.61
112	314+62.43	40.69' L	965.13	217282.35	351529.18
113	314+64.14	45.38' L	965.10	217281.70	351524.23
114	314+67.18	39.19' L	965.16	217287.26	351528.32
115	314+68.46	44.03' L	965.19	217286.17	351523.44
116	314+72.35	38.09' L	965.12	217292.35	351526.92
117	314+72.96	43.05' L	965.14	217290.61	351522.23
118	314+45.27	41.80' L	965.50	217266.61	351536.10
119	314+47.38	43.11' L	965.28	217267.87	351533.97
120	314+52.38	43.11' L	965.23	217272.31	351531.66
121	314+52.37	40.61' L	965.05	217273.46	351533.88
122	314+52.37	38.27' L	965.02	217274.54	351535.96
123	314+34.11	50.68' L	965.37	217252.61	351533.36
124	314+41.64	50.99' L	965.37	217259.15	351529.62
125	314+41.84	46.00' L	965.27	217261.63	351533.96
126	314+41.46	44.29' L	965.60	217262.08	351535.65
127	314+39.38	45.89' L	965.25	217259.49	351535.19
128	314+17.16	89.91' L	965.42	217219.49	351506.36
129	314+20.06	69.06' L	965.55	217231.68	351523.53
130	314+27.33	54.96' L	965.56	217244.63	351532.69
131	314+30.74	50.66' L	965.48	217249.63	351534.93
132	314+35.38	45.98' L	965.38	217255.90	351536.96
133	314+47.46	37.76' L	965.16	217270.41	351538.68
134	314+52.35	35.60' L	965.08	217275.75	351538.35
135	314+63.93	32.54' L	964.82	217287.43	351535.72

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.



USH 45

2

CTHH_SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1500	313+22.38	40.08' R	966.77	217196.92	351665.43
1501	313+22.38	44.91' R	966.89	217199.29	351669.63
1502	313+28.88	44.91' R	966.54	217204.95	351666.43
1503	313+28.88	39.99' R	966.47	217202.53	351662.15
1504	313+28.88	35.71' R	966.22	217200.42	351658.42
1505	313+33.88	44.97' R	966.57	217209.33	351664.02
1506	313+33.88	39.97' R	966.49	217206.87	351659.67
1507	313+33.88	35.69' R	966.24	217204.76	351655.94
1508	313+39.72	44.83' R	966.93	217214.35	351661.03
1509	313+39.65	40.00' R	966.75	217211.91	351656.86
1510	313+33.86	33.19' R	966.27	217203.51	351653.77
1511	313+28.89	33.21' R	966.27	217199.20	351656.24

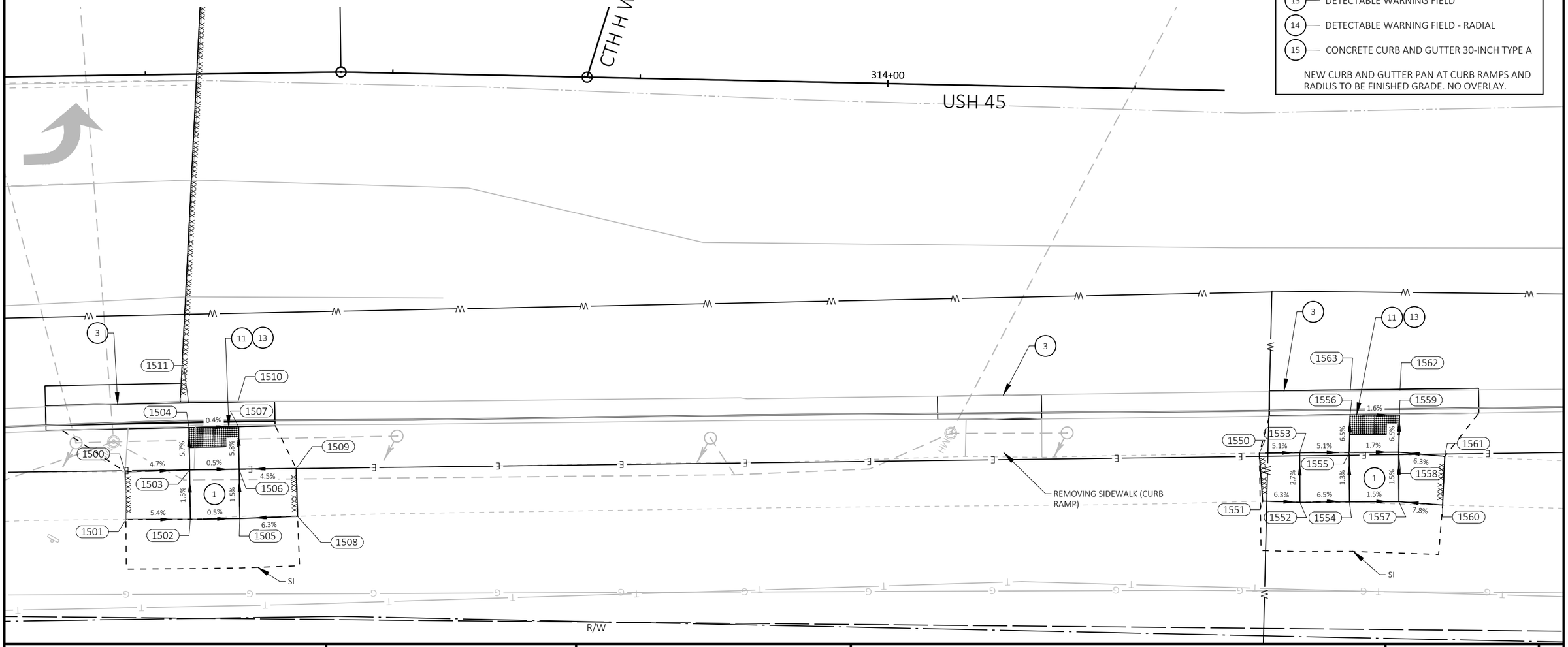
NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

CTHHNE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1550	314+38.30	36.55' R	965.81	217296.53	351608.85
1551	314+38.74	41.39' R	965.98	217299.15	351612.94
1552	314+42.51	41.43' R	965.74	217302.51	351611.24
1553	314+42.38	36.43' R	965.60	217300.10	351606.86
1554	314+47.51	41.29' R	965.42	217306.89	351608.82
1555	314+47.37	36.30' R	965.35	217304.47	351604.44
1556	314+47.38	32.47' R	965.10	217302.71	351601.04
1557	314+52.50	41.16' R	965.34	217311.26	351606.40
1558	314+52.38	36.16' R	965.27	217308.84	351602.02
1559	314+52.38	32.30' R	965.01	217307.06	351598.59
1560	314+56.92	41.42' R	965.68	217315.30	351604.59
1561	314+57.03	36.50' R	965.56	217313.13	351600.17
1562	314+52.37	29.95' R	965.08	217305.97	351596.51
1563	314+47.37	29.99' R	965.17	217301.55	351598.85

N

1. CONCRETE SIDEWALK 5-INCH
2. CONCRETE SIDEWALK 7-INCH
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CURB RAMP TYPE 1
5. CURB RAMPS TYPE 2
6. CURB RAMPS TYPE 2 MODIFIED
7. CURB RAMPS TYPE 3
8. CURB RAMPS TYPE 4A1
9. CURB RAMPS TYPE 4B1
10. CURB RAMPS TYPE 7A
11. CURB RAMPS TYPE 7B
12. 6FT CURB & GUTTER TRANSITION SECTION
13. DETECTABLE WARNING FIELD
14. DETECTABLE WARNING FIELD - RADIAL
15. CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

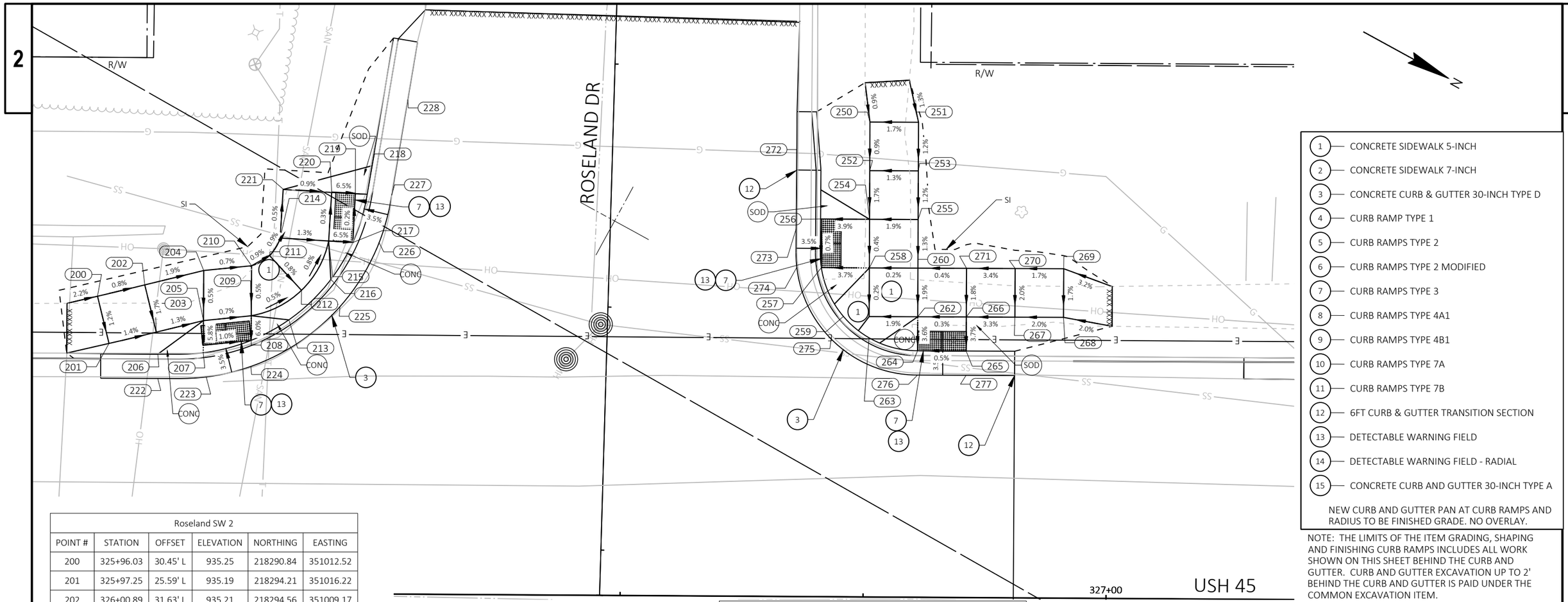


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 34	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - 01C

PLOT DATE : 7/24/2023 4:25 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42



NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

Roseland SW 2					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
200	325+96.03	30.45' L	935.25	218290.84	351012.52
201	325+97.25	25.59' L	935.19	218294.21	351016.22
202	326+00.89	31.63' L	935.21	218294.56	351009.17
203	326+02.11	26.78' L	935.12	218297.93	351012.87
204	326+06.96	33.15' L	935.09	218299.18	351004.96
205	326+06.96	27.99' L	935.06	218301.62	351009.50
206	326+02.28	24.52' L	935.42	218299.15	351014.78
207	326+06.96	24.68' L	934.90	218303.19	351012.42
208	326+11.88	25.99' L	934.87	218306.90	351008.93
209	326+11.88	28.52' L	935.03	218305.70	351006.70
210	326+11.88	33.67' L	935.05	218303.26	351002.17
211	326+13.71	34.72' L	935.03	218304.38	351000.37
212	326+17.03	31.17' L	935.00	218308.99	351001.93
213	326+15.75	28.13' L	935.34	218309.30	351005.22
214	326+14.80	36.53' L	935.01	218304.48	350998.26
215	326+19.79	36.25' L	934.95	218309.01	350996.14
216	326+20.04	32.31' L	935.31	218311.10	350999.50
217	326+22.28	36.12' L	934.79	218311.26	350995.08
218	326+23.73	41.09' L	934.76	218310.18	350990.02
219	326+22.50	41.14' L	934.78	218309.08	350990.56

Roseland SW 2					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
220	326+20.07	41.28' L	934.94	218306.87	350991.59
221	326+15.08	41.56' L	934.99	218302.34	350993.71
222	326+02.29	22.02' L	934.84	218300.34	351016.98
223	326+07.28	22.20' L	934.82	218304.65	351014.45
224	326+11.86	23.31' L	934.79	218308.16	351011.30
225	326+21.00	29.55' L	934.74	218313.25	351001.47
226	326+24.96	36.17' L	934.70	218313.60	350993.76
227	326+26.25	41.00' L	934.67	218312.44	350988.90
228	326+27.85	50.85' L	934.55	218309.18	350979.47

Roseland NW 1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
250	326+75.42	48.82' L	935.51	218352.02	350958.70
251	326+80.42	48.84' L	935.60	218356.42	350956.32
252	326+75.43	43.82' L	935.47	218354.40	350963.10
253	326+80.43	43.84' L	935.53	218358.80	350960.72
254	326+75.44	38.82' L	935.38	218356.78	350967.50
255	326+80.43	38.84' L	935.47	218361.18	350965.12
256	326+70.40	38.83' L	935.18	218352.34	350969.88
257	326+70.51	33.83' L	935.22	218354.81	350974.23
258	326+75.44	33.82' L	935.40	218359.16	350971.90
259	326+72.80	28.83' L	935.72	218359.20	350977.55
260	326+80.44	33.84' L	935.41	218363.56	350969.52
261	326+75.45	28.82' L	935.41	218361.54	350976.30
262	326+80.45	28.83' L	935.32	218365.94	350973.92
263	326+75.46	26.64' L	935.71	218362.58	350978.21
264	326+80.46	25.34' L	935.19	218367.60	350976.99
265	326+85.46	25.34' L	935.17	218372.00	350974.62

Roseland NW 1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
266	326+85.45	28.85' L	935.30	218370.33	350971.54
267	326+90.45	28.86' L	935.46	218374.73	350969.16
268	326+95.45	28.87' L	935.56	218379.13	350966.78
269	326+95.44	33.87' L	935.64	218376.75	350962.38
270	326+90.44	33.86' L	935.56	218372.35	350964.76
271	326+85.44	33.84' L	935.39	218367.96	350967.14
272	326+67.90	43.82' L	935.07	218347.78	350966.67
273	326+67.90	37.85' L	935.10	218350.61	350971.94
274	326+67.98	33.85' L	935.13	218352.58	350975.41
275	326+71.55	26.50' L	935.14	218359.20	350980.19
276	326+80.46	22.84' L	935.10	218368.79	350979.19
277	326+85.46	22.85' L	935.08	218373.19	350976.81

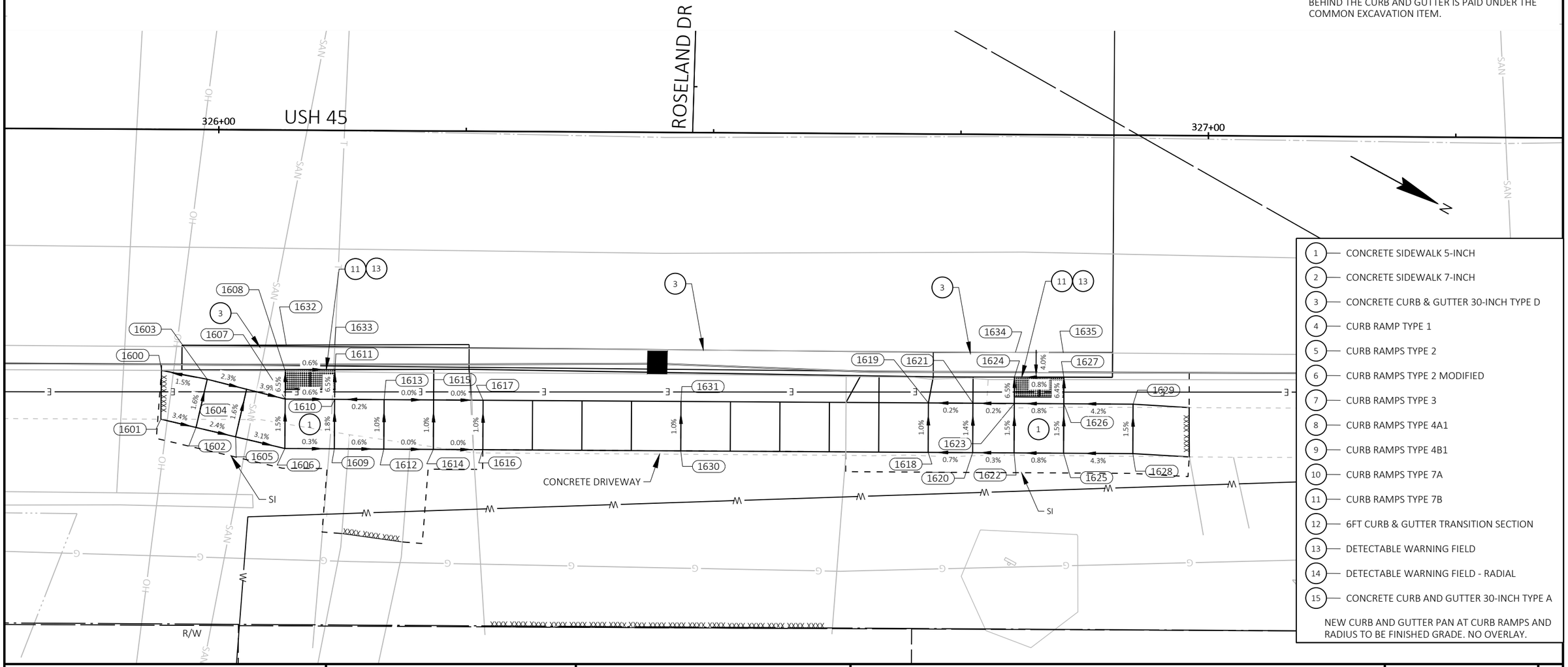
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 35	E

Roseland East1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1600	325+94.36	24.37' R	935.39	218315.36	351061.58
1601	325+94.33	29.30' R	935.52	218317.67	351065.94
1602	325+97.89	30.12' R	935.40	218321.19	351064.97
1603	325+98.99	25.24' R	935.32	218319.84	351060.15
1604	326+02.99	26.15' R	935.23	218323.80	351059.05
1605	326+01.89	31.03' R	935.30	218325.14	351063.87
1606	326+06.88	32.19' R	935.14	218330.08	351062.53
1607	326+06.88	27.19' R	935.07	218327.71	351058.13
1608	326+06.88	24.37' R	934.88	218326.38	351055.65
1609	326+11.88	32.19' R	935.13	218334.49	351060.16
1610	326+11.88	27.19' R	935.04	218332.11	351055.76
1611	326+11.88	24.41' R	934.86	218330.80	351053.31
1612	326+16.88	32.19' R	935.10	218338.89	351057.79

Roseland East1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1613	326+16.88	27.19' R	935.05	218336.52	351053.39
1614	326+21.88	32.19' R	935.10	218343.29	351055.42
1615	326+21.88	27.19' R	935.05	218340.92	351051.02
1616	326+26.88	32.19' R	935.10	218347.69	351053.05
1617	326+26.88	27.19' R	935.05	218345.32	351048.65
1618	326+71.88	32.19' R	935.10	218387.31	351031.71
1619	326+71.88	27.19' R	935.05	218384.94	351027.31
1620	326+76.38	32.19' R	935.13	218391.28	351029.58
1621	326+76.38	27.19' R	935.06	218388.90	351025.18
1622	326+80.56	32.19' R	935.14	218394.96	351027.60
1623	326+80.56	27.19' R	935.07	218392.59	351023.19
1624	326+80.55	24.52' R	934.89	218391.32	351020.85
1625	326+85.56	32.19' R	935.18	218399.37	351025.23

Roseland East1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1626	326+85.56	27.19' R	935.11	218396.99	351020.82
1627	326+85.55	24.52' R	934.93	218395.72	351018.48
1628	326+92.56	32.19' R	935.48	218405.53	351021.90
1629	326+92.56	27.19' R	935.40	218403.15	351017.51
1630	326+46.88	32.19' R	935.10	218365.30	351043.57
1631	326+46.88	27.19' R	935.05	218362.93	351039.16
1632	326+06.96	21.74' R	934.95	218325.20	351053.29
1633	326+11.85	21.70' R	934.92	218329.49	351050.93
1634	326+80.64	22.02' R	934.97	218390.21	351018.61
1635	326+85.48	22.03' R	935.01	218394.47	351016.32

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.



1 — CONCRETE SIDEWALK 5-INCH
2 — CONCRETE SIDEWALK 7-INCH
3 — CONCRETE CURB & GUTTER 30-INCH TYPE D
4 — CURB RAMP TYPE 1
5 — CURB RAMPS TYPE 2
6 — CURB RAMPS TYPE 2 MODIFIED
7 — CURB RAMPS TYPE 3
8 — CURB RAMPS TYPE 4A1
9 — CURB RAMPS TYPE 4B1
10 — CURB RAMPS TYPE 7A
11 — CURB RAMPS TYPE 7B
12 — 6FT CURB & GUTTER TRANSITION SECTION
13 — DETECTABLE WARNING FIELD
14 — DETECTABLE WARNING FIELD - RADIAL
15 — CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

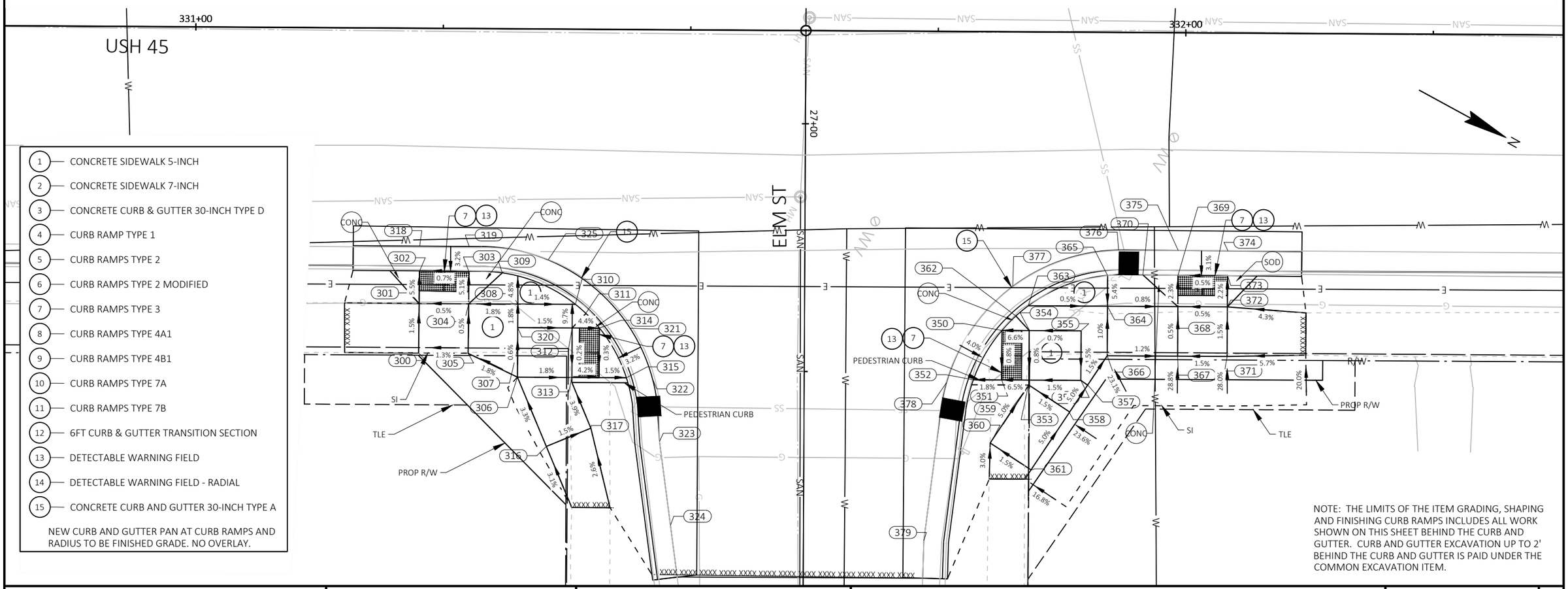
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 36	E

Elm_SE 1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
300	331+22.70	32.78' R	940.30	218784.53	350818.51
301	331+22.69	27.79' R	940.23	218782.16	350814.12
302	331+22.74	24.49' R	940.04	218780.65	350811.19
303	331+27.73	24.57' R	940.09	218785.08	350808.89
304	331+27.72	27.80' R	940.25	218786.59	350811.75
305	331+27.70	32.79' R	940.23	218788.94	350816.15
306	331+32.69	35.16' R	940.32	218794.46	350815.87
307	331+32.69	32.24' R	940.31	218793.08	350813.30
308	331+32.69	27.83' R	940.34	218790.98	350809.42
309	331+31.09	24.64' R	940.46	218788.07	350807.37
310	331+38.50	27.77' R	940.46	218796.07	350806.61
311	331+39.52	28.73' R	940.34	218797.43	350806.97
312	331+38.19	30.15' R	940.21	218796.93	350808.86
313	331+38.19	35.15' R	940.23	218799.30	350813.26
314	331+40.93	30.14' R	940.09	218799.34	350807.55
315	331+43.69	35.15' R	940.07	218804.14	350810.65

Elm_SE 1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
316	331+35.65	42.13' R	940.58	218800.37	350820.61
317	331+40.13	40.23' R	940.50	218803.42	350816.81
318	331+22.73	21.99' R	940.12	218779.45	350808.99
319	331+27.73	21.99' R	940.16	218783.86	350806.63
320	331+32.69	30.16' R	940.30	218792.09	350811.47
321	331+44.00	30.14' R	940.17	218802.04	350806.09
322	331+46.26	35.04' R	940.15	218806.35	350809.33
323	331+47.08	41.55' R	940.15	218810.16	350814.68
324	331+48.24	50.03' R	940.23	218815.20	350821.59
325	331+35.74	23.26' R	940.01	218791.51	350803.95

Elm_NE 1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
350	331+81.59	30.15' R	940.53	218835.14	350788.26
351	331+81.59	35.15' R	940.49	218837.52	350792.67
352	331+78.73	35.15' R	940.44	218835.00	350794.02
353	331+84.40	35.15' R	940.67	218840.00	350791.33
354	331+84.36	30.12' R	940.71	218837.57	350786.93
355	331+89.59	30.12' R	940.67	218842.18	350784.45
356	331+89.59	35.15' R	940.75	218844.56	350788.87
357	331+90.19	35.50' R	940.87	218845.26	350788.90
358	331+88.38	38.28' R	941.06	218844.98	350792.20
359	331+84.34	35.65' R	940.99	218840.17	350791.80
360	331+80.50	41.53' R	941.34	218839.59	350798.80
361	331+84.59	44.23' R	941.41	218844.47	350799.24
362	331+82.99	28.68' R	940.80	218835.68	350786.31
363	331+84.23	27.65' R	940.94	218836.29	350784.81
364	331+92.23	27.65' R	940.90	218843.33	350781.01
365	331+92.23	24.55' R	941.07	218841.86	350778.28

Elm_NE 1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
366	331+92.23	32.65' R	940.95	218845.70	350785.41
367	331+99.34	32.64' R	940.86	218851.96	350782.04
368	331+99.34	27.65' R	940.84	218849.59	350777.64
369	331+99.33	24.52' R	940.77	218848.09	350774.89
370	331+95.79	24.46' R	941.10	218844.95	350776.52
371	332+04.34	32.65' R	940.94	218856.36	350779.67
372	332+04.34	27.65' R	940.86	218853.99	350775.27
373	332+04.35	24.49' R	940.80	218852.51	350772.49
374	332+04.36	21.99' R	940.87	218851.33	350770.28
375	331+99.34	21.97' R	940.85	218846.90	350772.64
376	331+93.33	21.98' R	940.81	218841.60	350775.50
377	331+82.66	25.70' R	940.66	218833.98	350783.84
378	331+76.02	35.44' R	940.50	218832.75	350795.57
379	331+73.82	51.39' R	940.60	218838.38	350810.66

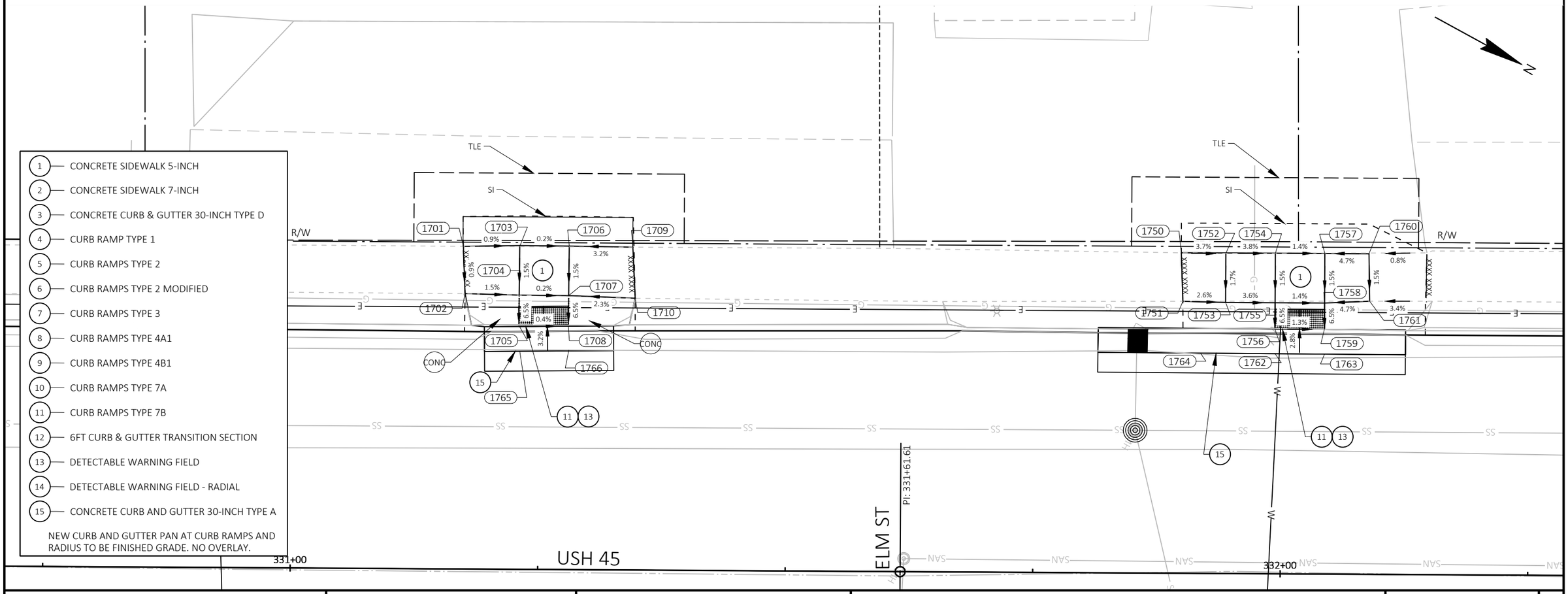


2

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

Elm_SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1701	331+17.31	32.58' L	940.58	218748.81	350763.52
1702	331+17.50	27.81' L	940.54	218751.24	350767.63
1703	331+22.99	32.58' L	940.53	218753.81	350760.82
1704	331+22.97	27.69' L	940.46	218756.11	350765.14
1705	331+23.02	24.52' L	940.25	218757.66	350767.91
1706	331+27.99	32.66' L	940.54	218758.18	350758.38
1707	331+27.97	27.66' L	940.47	218760.53	350762.79
1708	331+27.96	24.60' L	940.27	218761.97	350765.50
1709	331+34.42	32.60' L	940.75	218763.86	350755.39
1710	331+34.69	27.44' L	940.62	218766.55	350759.81
1765	331+23.07	22.02' L	940.33	218758.88	350770.09
1766	331+28.02	22.17' L	940.34	218763.17	350767.60

Elm_NW2					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1750	331+89.83	32.35' L	941.12	218812.75	350729.33
1751	331+90.02	27.46' L	940.99	218815.24	350733.55
1752	331+94.34	32.32' L	940.88	218816.73	350727.22
1753	331+94.34	27.37' L	940.88	218819.09	350731.59
1754	331+99.34	32.37' L	940.77	218821.12	350724.81
1755	331+99.34	27.37' L	940.69	218823.49	350729.22
1756	331+99.33	24.72' L	940.53	218824.74	350731.55
1757	332+04.34	32.37' L	940.84	218825.52	350722.44
1758	332+04.34	27.37' L	940.76	218827.89	350726.84
1759	332+04.33	24.70' L	940.59	218829.15	350729.19
1760	332+08.79	32.37' L	941.26	218829.44	350720.33
1761	332+08.89	27.58' L	940.98	218831.80	350724.50
1762	331+99.32	22.29' L	940.61	218825.88	350733.69
1763	332+04.38	22.25' L	940.67	218830.35	350731.33
1764	331+91.82	22.25' L	940.61	218819.29	350737.28

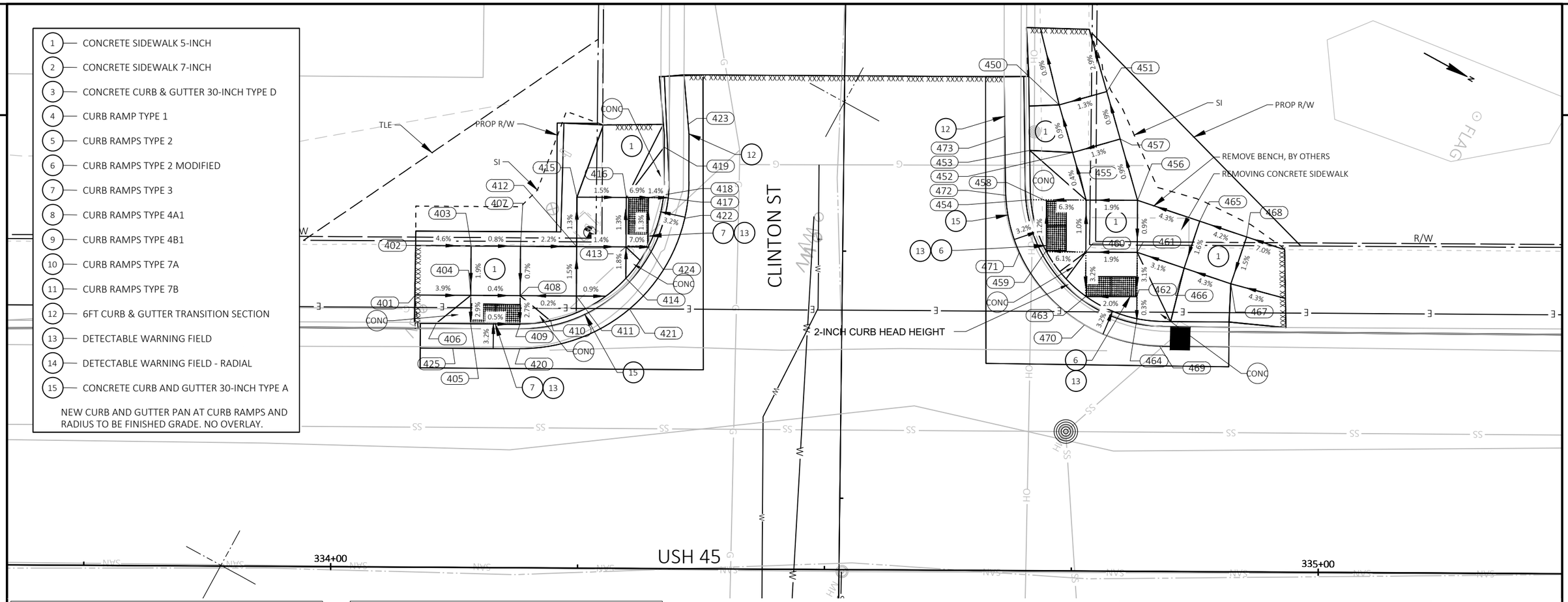


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 38	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - 03B
PLOT DATE : 7/24/2023 4:26 PM
PLOT BY : JOSHUA MOUNT
PLOT NAME :
PLOT SCALE : 1:10

1. CONCRETE SIDEWALK 5-INCH
2. CONCRETE SIDEWALK 7-INCH
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CURB RAMP TYPE 1
5. CURB RAMPS TYPE 2
6. CURB RAMPS TYPE 2 MODIFIED
7. CURB RAMPS TYPE 3
8. CURB RAMPS TYPE 4A1
9. CURB RAMPS TYPE 4B1
10. CURB RAMPS TYPE 7A
11. CURB RAMPS TYPE 7B
12. 6FT CURB & GUTTER TRANSITION SECTION
13. DETECTABLE WARNING FIELD
14. DETECTABLE WARNING FIELD - RADIAL
15. CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.



Clinton SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
401	334+08.41	27.52' L	942.71	219007.46	350629.90
402	334+08.42	32.52' L	942.84	219005.10	350625.49
403	334+14.03	32.52' L	942.59	219010.04	350622.83
404	334+14.03	27.52' L	942.49	219012.41	350627.23
405	334+14.03	24.66' L	942.41	219013.77	350629.75
406	334+10.54	24.67' L	942.74	219010.69	350631.40
407	334+19.03	32.52' L	942.55	219014.44	350620.46
408	334+19.03	27.52' L	942.51	219016.81	350624.86
409	334+19.03	24.62' L	942.43	219018.19	350627.41
410	334+22.13	24.99' L	942.57	219020.74	350625.62
411	334+24.72	27.52' L	942.50	219021.82	350622.16
412	334+24.72	32.52' L	942.42	219019.45	350617.76
413	334+29.72	32.52' L	942.35	219023.85	350615.39
414	334+29.72	29.34' L	942.43	219025.36	350618.18

Clinton SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
415	334+24.72	37.52' L	942.36	219017.07	350613.36
416	334+29.72	37.52' L	942.28	219021.48	350610.99
417	334+33.45	37.52' L	942.11	219024.76	350609.21
418	334+31.96	37.53' L	942.13	219023.44	350609.92
419	334+33.53	42.63' L	942.37	219022.41	350604.67
420	334+19.02	22.15' L	942.51	219019.35	350629.59
421	334+30.08	26.27' L	942.37	219027.13	350620.72
422	334+35.58	35.42' L	942.21	219027.64	350610.05
423	334+35.94	44.95' L	942.08	219023.43	350601.49
424	334+31.93	32.52' L	942.20	219025.80	350614.33
425	334+12.23	22.16' L	942.48	219013.37	350632.80

Clinton NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
450	334+73.51	47.13' L	942.48	219055.47	350581.76
451	334+78.31	48.52' L	942.55	219059.04	350578.25
452	334+74.90	42.32' L	942.53	219058.97	350585.32
453	334+70.54	42.52' L	942.53	219055.04	350587.22
454	334+70.67	37.52' L	942.26	219057.53	350591.56
455	334+76.29	37.52' L	942.55	219062.47	350588.89
456	334+81.49	37.52' L	942.65	219067.05	350586.42
457	334+79.70	43.71' L	942.59	219062.54	350581.82
458	334+72.29	37.38' L	942.30	219059.02	350590.91
459	334+72.29	32.38' L	942.36	219061.39	350595.31
460	334+76.29	32.26' L	942.60	219064.97	350593.53
461	334+81.49	32.26' L	942.70	219069.55	350591.06
462	334+81.48	27.77' L	942.56	219071.67	350595.01
463	334+76.29	27.77' L	942.46	219067.10	350597.47

Clinton NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
464	334+81.49	25.54' L	942.55	219072.74	350596.97
465	334+87.80	35.45' L	942.93	219073.59	350585.25
466	334+86.25	30.71' L	942.85	219074.47	350590.16
467	334+90.99	29.13' L	943.07	219079.40	350589.30
468	334+92.55	33.89' L	943.14	219078.52	350584.38
469	334+83.80	22.78' L	942.74	219076.08	350598.31
470	334+76.17	24.88' L	942.56	219068.36	350600.07
471	334+69.54	32.16' L	942.42	219059.08	350596.81
472	334+68.13	37.95' L	942.34	219055.09	350592.38
473	334+68.02	43.91' L	942.20	219052.16	350587.19

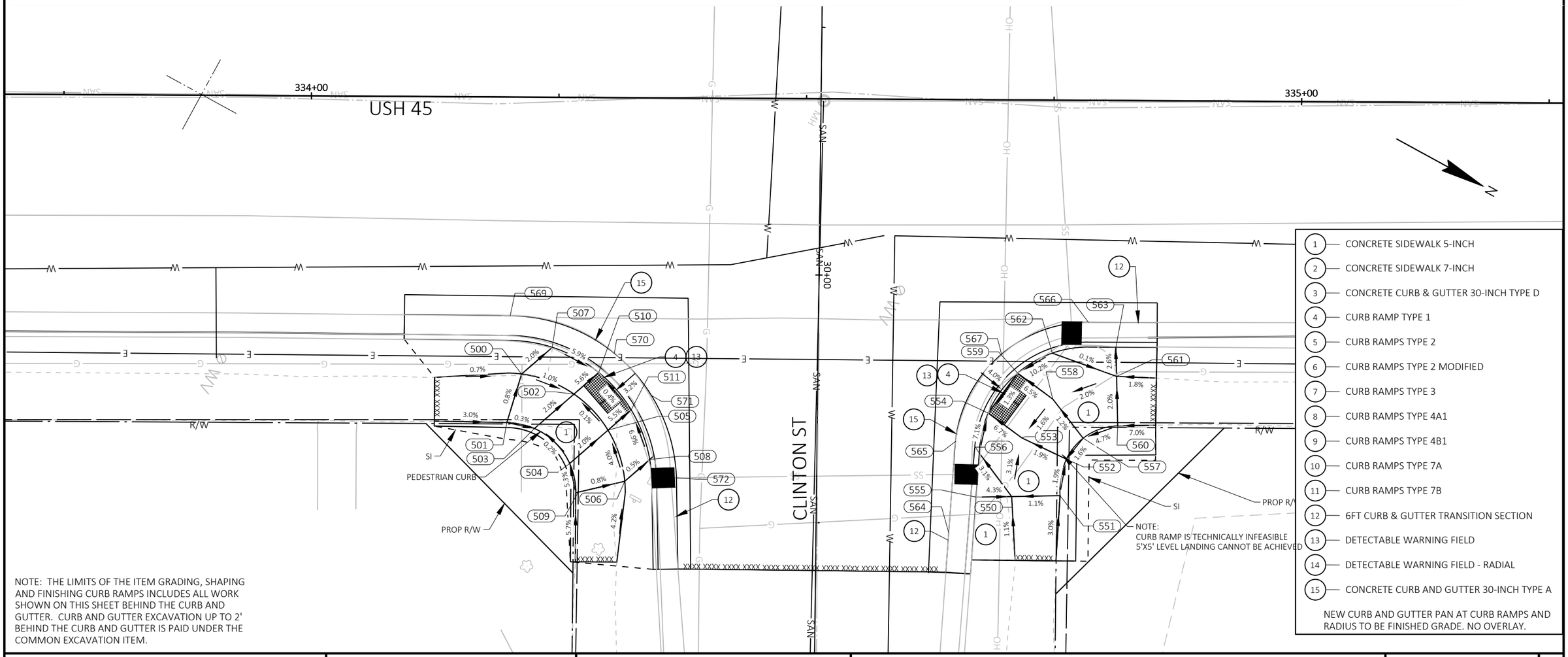
NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

Clinton SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
500	334+21.38	27.95' R	942.71	219045.19	350672.58
501	334+19.91	32.86' R	942.75	219046.24	350677.60
502	334+26.68	29.95' R	942.66	219050.81	350671.82
503	334+22.70	33.45' R	942.76	219048.97	350676.78
504	334+26.28	36.96' R	942.75	219053.78	350678.18
505	334+30.13	33.57' R	942.65	219055.57	350673.37
506	334+31.86	38.71' R	942.87	219059.52	350677.08
507	334+24.46	25.24' R	942.79	219046.62	350668.73
508	334+34.36	36.51' R	942.85	219060.68	350673.95
509	334+27.17	39.84' R	942.91	219055.94	350680.30
510	334+29.17	27.76' R	942.46	219051.96	350668.72
511	334+32.46	31.52' R	942.48	219056.65	350670.46
569	334+20.19	22.07' R	942.50	219041.36	350667.96

Clinton SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
570	334+30.73	25.81' R	942.54	219052.41	350666.26
571	334+34.49	30.03' R	942.56	219057.72	350668.19
572	334+37.08	38.34' R	942.59	219063.94	350674.27

Clinton NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
550	334+70.95	40.04' R	943.55	219094.57	350659.70
551	334+75.83	39.92' R	943.54	219098.80	350657.28
552	334+76.45	36.23' R	943.47	219097.60	350653.74
553	334+71.92	34.10' R	943.37	219092.61	350654.01
554	334+68.53	31.62' R	943.09	219088.44	350653.44
555	334+67.35	40.11' R	943.40	219091.43	350661.47
556	334+67.65	35.67' R	943.38	219089.59	350657.42
557	334+78.14	34.11' R	943.51	219098.08	350651.07
558	334+75.04	30.18' R	943.45	219093.49	350649.08
559	334+71.49	27.59' R	943.16	219089.14	350648.48
560	334+81.62	32.84' R	943.68	219100.55	350648.30
561	334+81.48	27.85' R	943.58	219098.05	350643.97
562	334+74.98	25.54' R	943.58	219091.24	350645.03

Clinton NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
563	334+81.39	24.90' R	943.66	219096.58	350641.43
564	334+64.61	43.71' R	943.17	219090.73	350665.94
565	334+65.30	34.46' R	943.12	219086.95	350657.47
566	334+78.60	22.41' R	943.36	219092.94	350640.55
567	334+69.84	25.68' R	943.24	219086.78	350647.59

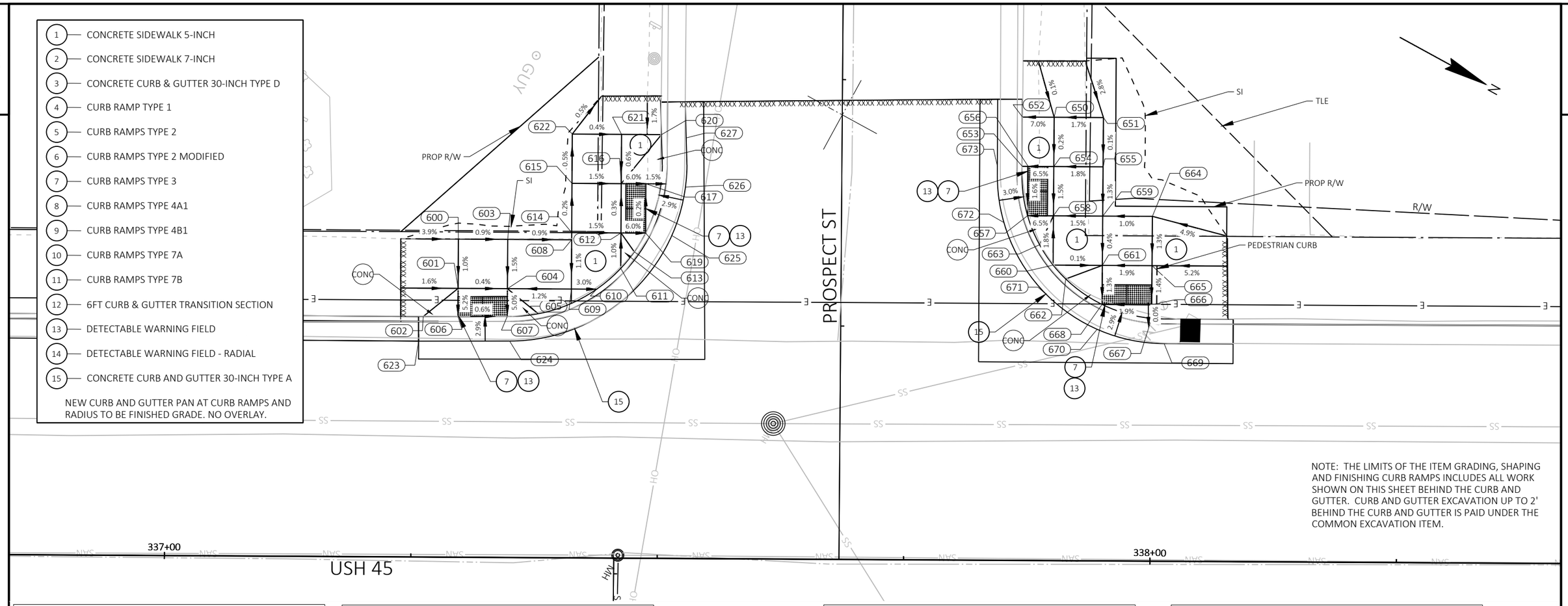


NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 40	E

1 — CONCRETE SIDEWALK 5-INCH
2 — CONCRETE SIDEWALK 7-INCH
3 — CONCRETE CURB & GUTTER 30-INCH TYPE D
4 — CURB RAMP TYPE 1
5 — CURB RAMPS TYPE 2
6 — CURB RAMPS TYPE 2 MODIFIED
7 — CURB RAMPS TYPE 3
8 — CURB RAMPS TYPE 4A1
9 — CURB RAMPS TYPE 4B1
10 — CURB RAMPS TYPE 7A
11 — CURB RAMPS TYPE 7B
12 — 6FT CURB & GUTTER TRANSITION SECTION
13 — DETECTABLE WARNING FIELD
14 — DETECTABLE WARNING FIELD - RADIAL
15 — CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.



NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

Prospect SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
600	337+29.65	32.28' L	945.95	219288.00	350473.31
601	337+29.65	27.28' L	945.90	219290.37	350477.71
602	337+26.13	24.40' L	946.06	219288.63	350481.92
603	337+34.65	32.28' L	946.00	219292.40	350470.94
604	337+34.65	27.28' L	945.92	219294.78	350475.34
605	337+37.79	24.75' L	945.96	219298.73	350476.08
606	337+29.65	24.45' L	945.75	219291.72	350480.20
607	337+34.65	24.46' L	945.78	219296.11	350477.82
608	337+41.14	32.28' L	945.94	219298.12	350467.86
609	337+41.14	27.28' L	946.00	219300.49	350472.26
610	337+43.70	27.28' L	945.92	219302.74	350471.05
611	337+46.14	29.40' L	945.90	219303.88	350468.02
612	337+46.14	33.00' L	945.86	219302.17	350464.85
613	337+47.51	31.09' L	945.89	219304.28	350465.89

Prospect SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
614	337+41.14	33.00' L	945.94	219297.77	350467.22
615	337+41.14	38.00' L	945.93	219295.40	350462.82
616	337+46.14	38.00' L	945.85	219299.80	350460.45
617	337+48.64	38.00' L	945.70	219302.00	350459.26
618	337+46.14	32.99' L	945.87	219302.18	350464.86
619	337+48.64	33.00' L	945.71	219304.37	350463.67
620	337+50.19	43.00' L	946.14	219301.00	350454.13
621	337+46.14	43.00' L	945.88	219297.43	350456.05
622	337+41.14	43.00' L	945.90	219293.03	350458.42
623	337+25.67	21.90' L	945.80	219289.42	350484.34
624	337+34.91	21.96' L	945.85	219297.53	350479.90
625	337+51.29	32.77' L	945.78	219306.82	350462.61
626	337+52.65	37.69' L	945.75	219305.68	350457.64
627	337+52.71	42.68' L	945.72	219303.36	350453.22

Prospect NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
650	337+90.03	44.99' L	946.76	219335.12	350433.48
651	337+95.03	44.99' L	946.84	219339.53	350431.11
652	337+86.83	44.99' L	946.98	219332.30	350435.00
653	337+86.83	39.99' L	946.57	219334.67	350439.40
654	337+90.02	39.98' L	946.75	219337.49	350437.89
655	337+95.02	39.97' L	946.84	219341.90	350435.53
656	337+87.41	40.01' L	946.58	219335.18	350439.11
657	337+87.39	34.99' L	946.65	219337.54	350443.54
658	337+90.02	34.99' L	946.82	219339.85	350442.29
659	337+95.02	34.98' L	946.90	219344.26	350439.93
660	337+90.00	29.99' L	946.91	219342.22	350446.70
661	337+95.01	29.99' L	946.92	219346.62	350444.32
662	337+91.29	28.59' L	946.95	219344.01	350447.32
663	337+88.62	32.04' L	946.87	219340.03	350445.55

Prospect NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
664	338+00.06	34.99' L	946.95	219348.69	350437.53
665	338+00.05	29.99' L	947.02	219351.06	350441.93
666	338+00.04	26.01' L	946.96	219352.94	350445.44
667	338+00.04	24.63' L	946.96	219353.59	350446.65
668	337+95.00	26.02' L	946.87	219348.49	350447.82
669	338+01.32	22.08' L	947.07	219355.93	350448.29
670	337+94.52	23.49' L	946.95	219349.27	350450.27
671	337+89.29	27.05' L	946.85	219342.98	350449.62
672	337+84.99	34.28' L	946.73	219335.76	350445.30
673	337+84.30	39.98' L	946.64	219332.45	350440.60

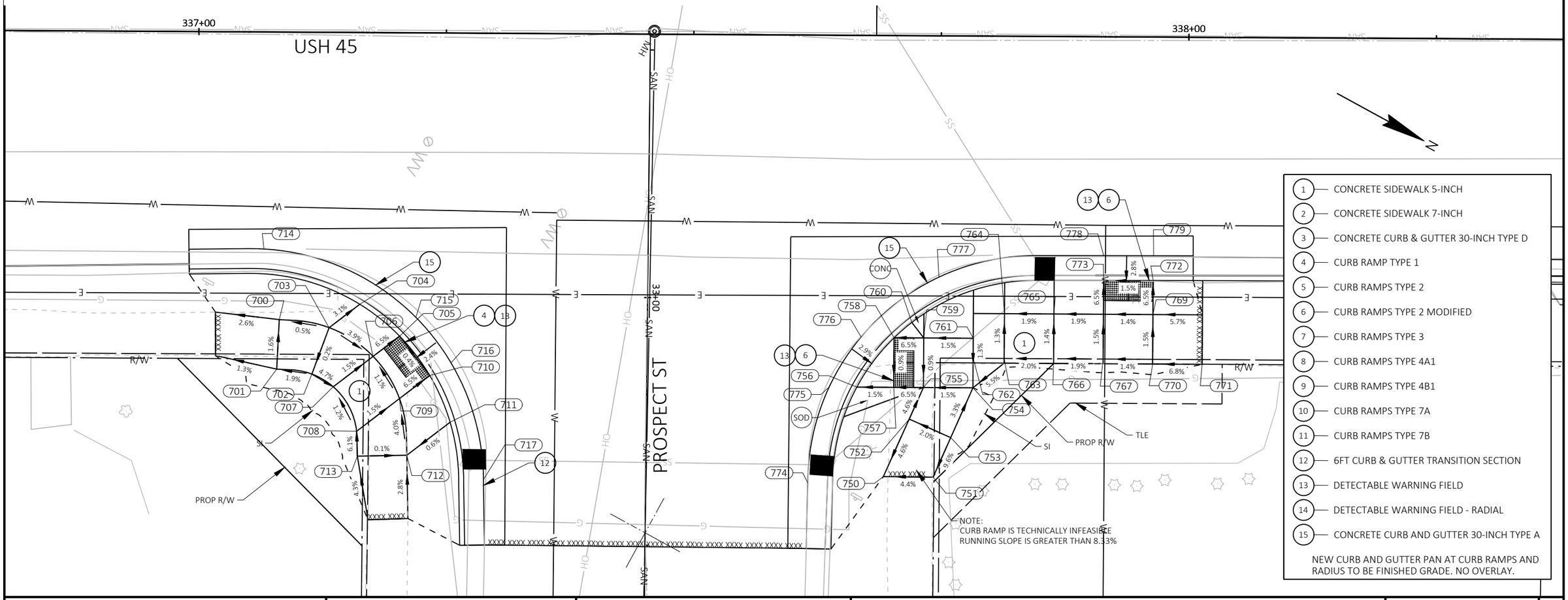
Prospect SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
700	337+08.28	29.04' R	946.38	219298.27	350537.43
701	337+08.04	34.03' R	946.46	219300.43	350541.93
702	337+11.60	34.52' R	946.39	219303.79	350540.68
703	337+13.31	29.82' R	946.40	219303.07	350535.73
704	337+16.40	27.44' R	946.28	219304.66	350532.16
705	337+20.44	30.63' R	945.98	219309.74	350533.06
706	337+17.77	32.70' R	946.20	219308.36	350536.14
707	337+13.76	35.79' R	946.27	219306.30	350540.77
708	337+16.15	40.26' R	946.33	219310.52	350543.58
709	337+20.46	36.94' R	946.25	219312.74	350538.61
710	337+23.51	34.58' R	946.00	219314.31	350535.09
711	337+25.59	39.29' R	946.51	219318.38	350538.24
712	337+21.24	42.65' R	946.48	219316.14	350543.26
713	337+16.24	42.77' R	946.48	219311.79	350545.74

Prospect SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
714	337+06.68	21.91' R	945.98	219293.48	350531.91
715	337+22.07	28.73' R	946.05	219310.27	350530.61
716	337+25.65	33.30' R	946.07	219315.59	350532.94
717	337+28.98	45.10' R	946.12	219324.11	350541.75

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

Prospect NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
750	337+69.38	44.53' R	947.06	219359.41	350522.08
751	337+74.40	44.56' R	947.28	219363.84	350519.72
752	337+71.96	38.71' R	946.77	219358.92	350515.73
753	337+76.16	40.56' R	946.86	219363.49	350515.37
754	337+78.38	35.51' R	946.68	219363.05	350509.87
755	337+73.38	35.51' R	946.60	219358.65	350512.24
756	337+66.65	35.51' R	946.35	219352.73	350515.44
757	337+70.38	35.51' R	946.41	219356.01	350513.67
758	337+70.38	30.51' R	946.45	219353.64	350509.26
759	337+73.38	30.51' R	946.65	219356.28	350507.84
760	337+72.17	28.95' R	946.74	219354.47	350507.04
761	337+78.38	30.51' R	946.72	219360.68	350505.47
762	337+78.38	32.53' R	946.71	219361.64	350507.25
763	337+81.51	32.54' R	946.89	219364.40	350505.77
764	337+81.52	28.01' R	946.83	219362.26	350501.78
765	337+86.52	28.02' R	946.93	219366.66	350499.42

Prospect NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
766	337+86.52	32.54' R	946.99	219368.81	350503.39
767	337+91.51	32.54' R	947.09	219373.21	350501.03
768	337+91.52	28.01' R	947.02	219371.06	350497.04
769	337+96.52	28.02' R	947.09	219375.47	350494.67
770	337+96.52	33.01' R	947.17	219377.84	350499.07
771	338+01.51	33.01' R	947.51	219382.23	350496.70
772	337+96.52	24.58' R	946.87	219373.84	350491.64
773	337+91.52	24.63' R	946.80	219369.46	350494.06
774	337+61.75	45.21' R	946.38	219353.01	350526.29
775	337+63.86	35.51' R	946.41	219350.27	350516.76
776	337+67.05	30.45' R	946.49	219350.68	350510.79
777	337+74.88	24.36' R	946.63	219354.68	350501.71
778	337+91.51	22.10' R	946.87	219368.25	350491.84
779	337+96.55	22.08' R	946.94	219372.68	350489.43



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 42	E

2

1. CONCRETE SIDEWALK 5-INCH
2. CONCRETE SIDEWALK 7-INCH
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CURB RAMP TYPE 1
5. CURB RAMPS TYPE 2
6. CURB RAMPS TYPE 2 MODIFIED
7. CURB RAMPS TYPE 3
8. CURB RAMPS TYPE 4A1
9. CURB RAMPS TYPE 4B1
10. CURB RAMPS TYPE 7A
11. CURB RAMPS TYPE 7B
12. 6FT CURB & GUTTER TRANSITION SECTION
13. DETECTABLE WARNING FIELD
14. DETECTABLE WARNING FIELD - RADIAL
15. CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

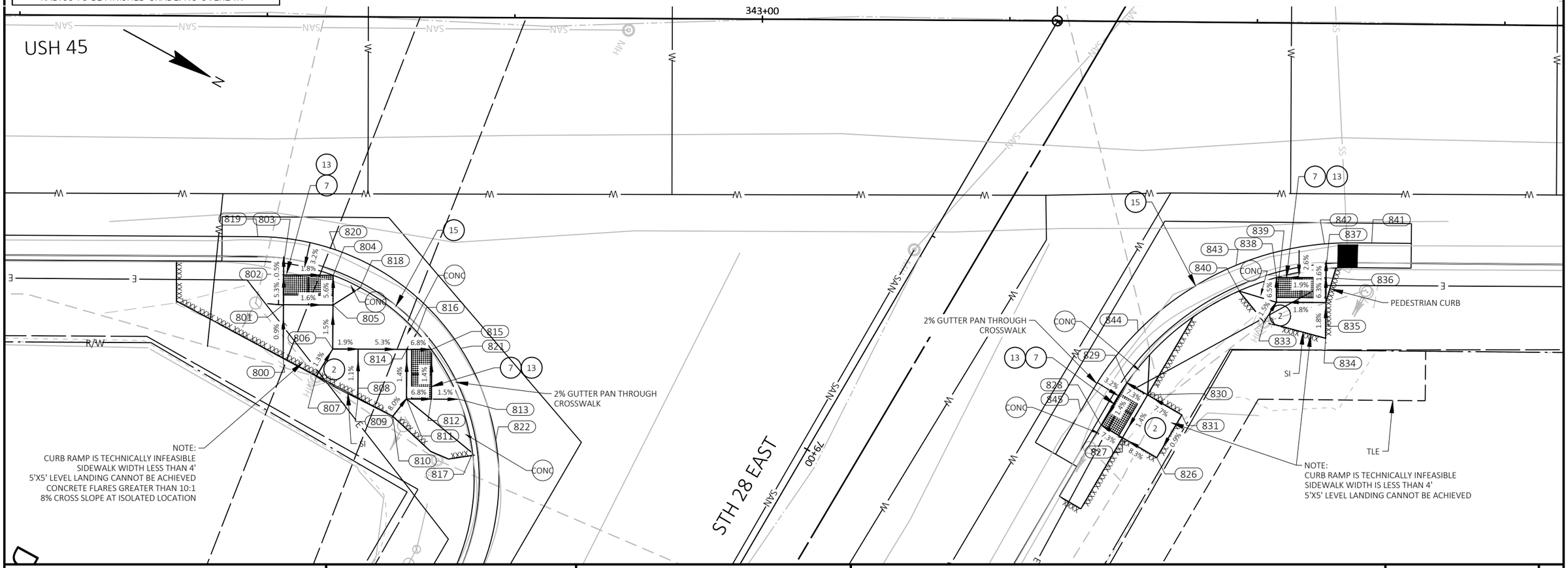
STH28_SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
800	342+51.79	34.51' R	951.20	219779.33	350284.41
801	342+51.79	29.10' R	951.17	219776.76	350279.64
802	342+51.79	26.10' R	951.02	219775.34	350277.00
803	342+51.79	24.90' R	950.99	219774.77	350275.95
804	342+56.79	26.13' R	950.90	219779.75	350274.65
805	342+56.79	29.10' R	951.11	219781.16	350277.27
806	342+56.79	33.54' R	951.13	219783.27	350281.18
807	342+55.16	36.30' R	951.06	219783.14	350284.38
808	342+59.36	33.54' R	951.08	219785.53	350279.96
809	342+59.36	38.54' R	951.14	219787.91	350284.36
810	342+62.90	40.30' R	950.93	219791.85	350284.23
811	342+64.27	38.54' R	950.76	219792.23	350282.04
812	342+66.78	38.54' R	950.59	219794.43	350280.84
813	342+69.58	38.54' R	950.54	219796.90	350279.52
814	342+64.27	33.54' R	950.83	219789.86	350277.63

STH28_SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
815	342+66.77	33.54' R	950.65	219792.05	350276.44
816	342+65.33	31.81' R	951.05	219789.96	350275.61
817	342+70.99	43.98' R	950.90	219800.72	350283.64
818	342+59.54	27.34' R	951.17	219782.75	350274.41
819	342+49.17	22.24' R	951.12	219771.20	350274.85
820	342+57.03	23.56' R	950.98	219778.75	350272.27
821	342+69.72	33.41' R	950.70	219794.59	350274.93
822	342+73.32	42.66' R	950.53	219802.15	350281.37

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

STH28 NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
825	343+36.11	51.23' R	950.64	219861.33	350259.24
826	343+40.25	44.00' R	950.57	219861.58	350250.91
827	343+36.77	42.01' R	950.24	219857.57	350250.79
828	343+34.59	40.77' R	950.37	219855.06	350250.72
829	343+37.16	36.47' R	950.14	219855.30	350245.72
830	343+39.26	37.67' R	950.30	219857.72	350245.79
831	343+42.73	39.67' R	950.61	219861.73	350245.91
832	343+46.26	33.51' R	950.73	219861.94	350238.82
833	343+50.95	30.23' R	950.62	219864.53	350233.72
834	343+57.19	31.79' R	950.74	219870.77	350232.15
835	343+57.18	28.18' R	950.67	219869.06	350228.98
836	343+57.17	25.68' R	950.52	219867.87	350226.78
837	343+57.17	24.75' R	950.51	219867.43	350225.96
838	343+52.17	25.70' R	950.43	219863.47	350229.15
839	343+52.18	28.20' R	950.60	219864.65	350231.35

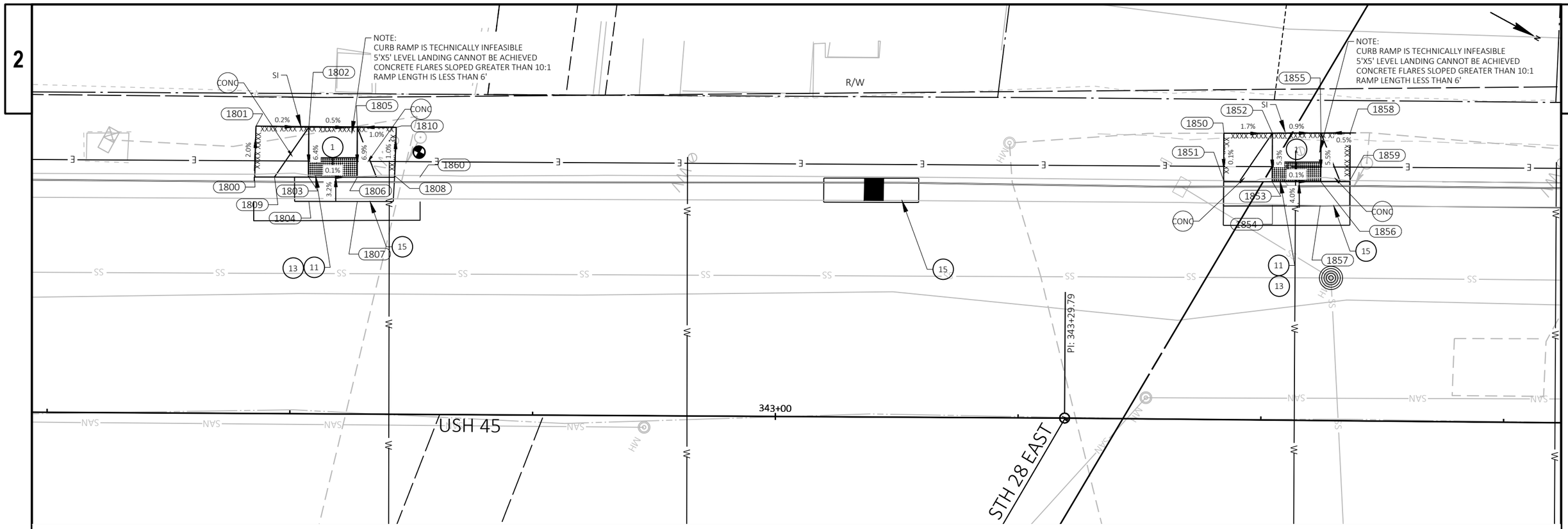
STH28 NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
840	343+48.45	27.12' R	950.71	219860.85	350232.15
841	343+61.75	22.13' R	950.65	219870.24	350221.48
842	343+56.99	22.26' R	950.58	219866.10	350223.84
843	343+48.07	24.50' R	950.45	219859.29	350230.02
844	343+38.23	31.24' R	950.28	219853.79	350240.60
845	343+32.50	39.39' R	950.14	219852.57	350250.49



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 43	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - 06A

PLOT DATE : 7/24/2023 4:26 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1:10



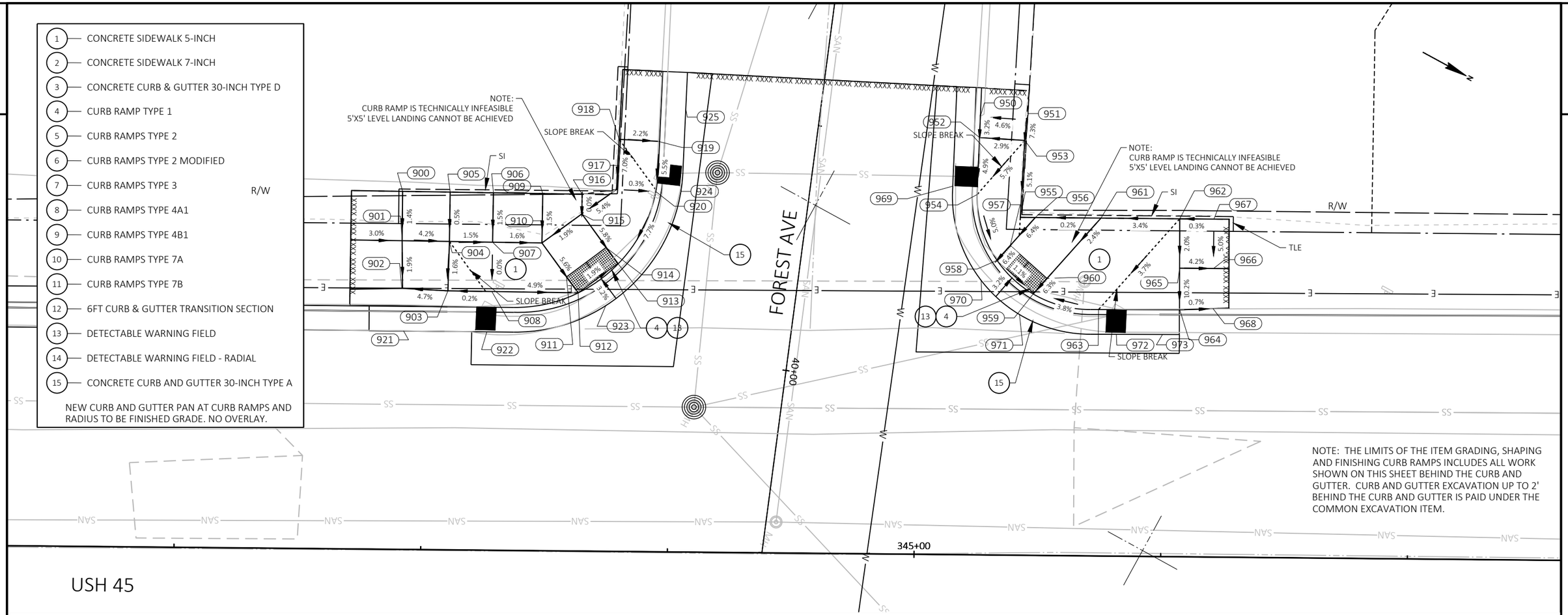
1. CONCRETE SIDEWALK 5-INCH
2. CONCRETE SIDEWALK 7-INCH
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CURB RAMP TYPE 1
5. CURB RAMPS TYPE 2
6. CURB RAMPS TYPE 2 MODIFIED
7. CURB RAMPS TYPE 3
8. CURB RAMPS TYPE 4A1
9. CURB RAMPS TYPE 4B1
10. CURB RAMPS TYPE 7A
11. CURB RAMPS TYPE 7B
12. 6FT CURB & GUTTER TRANSITION SECTION
13. DETECTABLE WARNING FIELD
14. DETECTABLE WARNING FIELD - RADIAL
15. CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

STH28_SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1800	342+46.21	24.65' L	951.63	219746.35	350234.97
1801	342+46.35	29.61' L	951.53	219744.12	350230.54
1802	342+51.79	29.53' L	951.53	219748.95	350228.03
1803	342+51.82	24.37' L	951.19	219751.42	350232.56
1804	342+51.83	21.88' L	951.27	219752.61	350234.74
1805	342+56.79	29.55' L	951.55	219753.34	350225.65
1806	342+56.82	24.40' L	951.20	219755.80	350230.16
1807	342+56.83	21.90' L	951.28	219757.00	350232.35
1808	342+60.62	24.62' L	951.61	219759.05	350228.17
1809	342+48.28	24.37' L	951.53	219748.31	350234.23
1810	342+60.80	29.56' L	951.56	219756.86	350223.73
1860	342+63.25	24.43' L	951.71	219761.45	350227.08

STH28_NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1850	343+45.92	29.50' L	951.62	219831.95	350183.40
1851	343+45.94	24.63' L	951.61	219834.26	350187.69
1852	343+50.92	29.56' L	951.53	219836.33	350180.99
1853	343+50.94	24.56' L	951.27	219838.70	350185.39
1854	343+50.98	22.16' L	951.35	219839.88	350187.49
1855	343+55.92	29.62' L	951.49	219840.71	350178.58
1856	343+55.94	24.62' L	951.08	219843.08	350182.98
1857	343+55.91	22.16' L	951.35	219844.22	350185.17
1858	343+58.92	29.63' L	951.51	219843.35	350177.16
1859	343+58.94	24.75' L	951.62	219845.67	350181.45

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.



USH 45

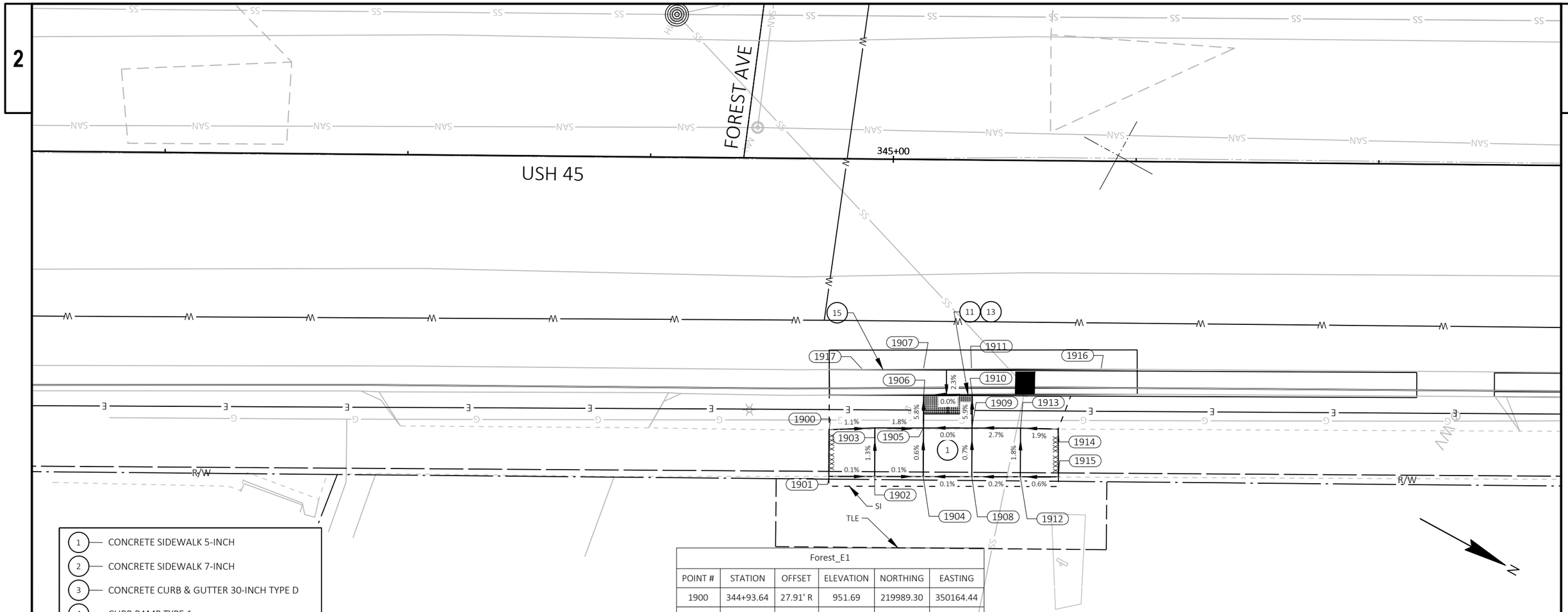
Forest SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
900	344+47.84	36.26' L	952.27	219918.66	350129.42
901	344+47.84	31.26' L	952.20	219921.02	350133.83
902	344+47.84	26.44' L	952.10	219923.29	350138.09
903	344+52.53	26.23' L	952.32	219927.52	350136.06
904	344+52.63	31.23' L	952.40	219925.25	350131.60
905	344+52.66	36.23' L	952.42	219922.93	350127.17
906	344+57.04	36.21' L	952.40	219926.80	350125.13
907	344+57.01	31.21' L	952.33	219929.13	350129.56
908	344+56.97	26.21' L	952.33	219931.46	350133.98
909	344+62.04	36.17' L	952.32	219931.23	350122.81
910	344+62.01	31.17' L	952.25	219933.55	350127.23
911	344+64.52	27.74' L	952.02	219937.39	350129.07
912	344+65.73	26.15' L	951.90	219939.20	350129.91
913	344+69.75	29.13' L	951.98	219941.34	350125.39

Forest SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
914	344+68.50	30.77' L	952.11	219939.48	350124.53
915	344+66.00	34.14' L	952.34	219935.68	350122.74
916	344+66.04	36.15' L	952.34	219934.76	350120.94
917	344+69.51	36.66' L	952.57	219937.59	350118.85
918	344+69.73	41.74' L	952.93	219935.39	350114.27
919	344+73.71	41.57' L	952.84	219938.98	350112.55
920	344+73.50	36.49' L	952.56	219941.19	350117.13
921	344+48.06	22.14' L	951.72	219925.51	350141.77
922	344+56.50	22.11' L	951.84	219932.97	350137.81
923	344+68.55	24.92' L	952.01	219942.27	350129.67
924	344+76.19	37.99' L	952.44	219942.85	350114.53
925	344+76.46	44.86' L	952.70	219939.85	350108.35

Forest NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
950	345+06.31	44.38' L	952.60	219966.40	350094.71
951	345+10.98	44.09' L	952.81	219970.67	350092.76
952	345+06.25	42.26' L	952.53	219967.35	350096.61
953	345+10.84	42.02' L	952.66	219971.52	350094.66
954	345+06.06	36.49' L	952.25	219969.91	350101.78
955	345+10.46	34.22' L	952.26	219974.86	350101.72
956	345+11.98	34.22' L	952.27	219976.20	350101.00
957	345+09.46	31.35' L	952.02	219975.33	350104.72
958	345+08.14	29.85' L	951.90	219974.87	350106.66
959	345+11.83	26.47' L	951.83	219979.71	350107.90
960	345+13.22	28.06' L	951.97	219980.19	350105.85
961	345+18.63	34.22' L	952.28	219982.06	350097.86
962	345+26.62	34.22' L	952.55	219989.11	350094.10
963	345+18.48	24.95' L	952.09	219986.29	350106.11

Forest NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
964	345+26.68	25.09' L	952.03	219993.46	350102.12
965	345+26.65	29.22' L	952.45	219991.49	350098.49
966	345+30.08	29.22' L	952.31	219994.51	350096.88
967	345+30.08	34.22' L	952.56	219992.16	350092.47
968	345+30.08	25.16' L	951.99	219996.43	350100.47
969	345+03.59	37.32' L	952.14	219967.34	350102.22
970	345+06.55	27.82' L	951.97	219974.42	350109.21
971	345+10.47	24.38' L	951.91	219979.50	350110.39
972	345+20.30	22.46' L	951.81	219989.08	350107.45
973	345+24.98	22.49' L	951.76	219993.19	350105.22

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 45	E

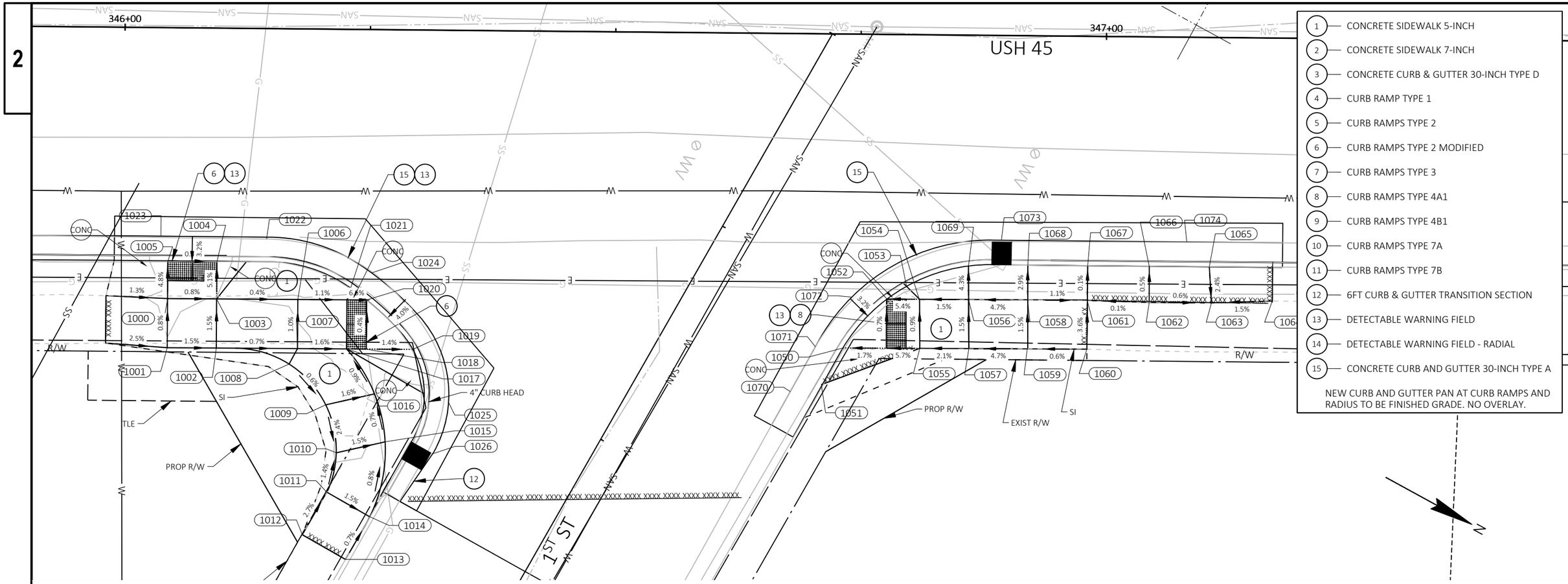


1 — CONCRETE SIDEWALK 5-INCH
2 — CONCRETE SIDEWALK 7-INCH
3 — CONCRETE CURB & GUTTER 30-INCH TYPE D
4 — CURB RAMP TYPE 1
5 — CURB RAMPS TYPE 2
6 — CURB RAMPS TYPE 2 MODIFIED
7 — CURB RAMPS TYPE 3
8 — CURB RAMPS TYPE 4A1
9 — CURB RAMPS TYPE 4B1
10 — CURB RAMPS TYPE 7A
11 — CURB RAMPS TYPE 7B
12 — 6FT CURB & GUTTER TRANSITION SECTION
13 — DETECTABLE WARNING FIELD
14 — DETECTABLE WARNING FIELD - RADIAL
15 — CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

Forest_E1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1900	344+93.64	27.91' R	951.69	219989.30	350164.44
1901	344+93.68	32.72' R	951.57	219991.60	350168.67
1902	344+98.37	32.69' R	951.57	219995.72	350166.42
1903	344+98.36	27.69' R	951.64	219993.35	350162.02
1904	345+03.37	32.65' R	951.58	220000.11	350164.03
1905	345+03.33	27.65' R	951.55	219997.72	350159.64
1906	345+03.34	24.22' R	951.34	219996.12	350156.62
1907	345+03.31	21.50' R	951.41	219994.80	350154.23
1908	345+08.37	32.61' R	951.58	220004.50	350161.64
1909	345+08.33	27.61' R	951.55	220002.11	350157.25
1910	345+08.34	24.16' R	951.35	220000.50	350154.21
1911	345+08.24	21.42' R	951.41	219999.11	350151.84
1912	345+13.37	32.57' R	951.59	220008.90	350159.26
1913	345+13.36	27.57' R	951.68	220006.52	350154.85
1914	345+17.23	27.63' R	951.76	220009.97	350153.08
1915	345+17.30	32.54' R	951.62	220012.34	350157.38
1916	345+21.59	21.33' R	951.46	220010.85	350145.47
1917	344+96.95	21.59' R	951.41	219989.24	350157.31

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.



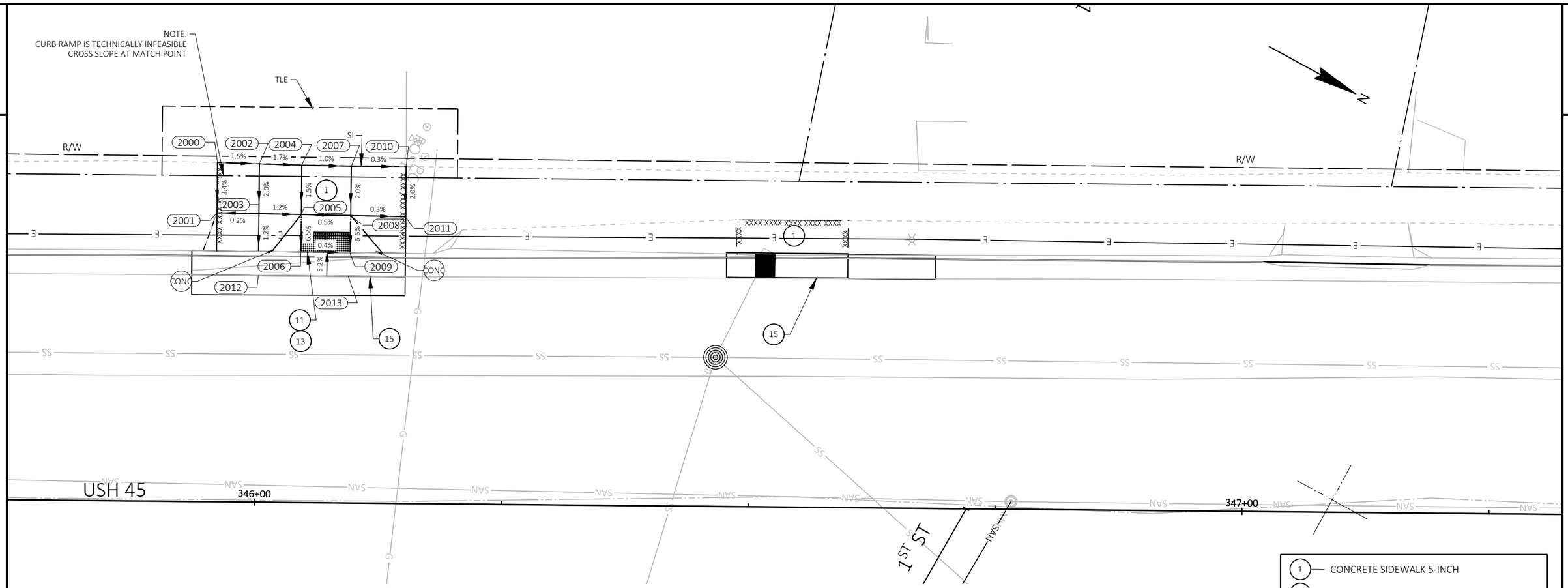
1st SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1000	346+04.59	27.58' R	951.97	220087.00	350111.88
1001	346+04.60	32.58' R	952.01	220089.37	350116.28
1002	346+09.60	32.57' R	952.08	220093.77	350113.92
1003	346+09.59	27.57' R	952.01	220091.40	350109.51
1004	346+09.58	23.78' R	951.81	220089.61	350106.18
1005	346+04.58	23.76' R	951.79	220085.19	350108.51
1006	346+17.86	27.55' R	951.98	220098.69	350105.59
1007	346+17.87	32.55' R	952.03	220101.06	350110.00
1008	346+17.03	34.13' R	952.10	220101.06	350111.79
1009	346+20.81	38.25' R	952.07	220106.33	350113.64
1010	346+21.95	43.11' R	951.95	220109.63	350117.40
1011	346+20.99	47.13' R	952.01	220110.68	350121.39
1012	346+18.55	51.49' R	952.15	220110.58	350126.39
1013	346+22.96	53.96' R	952.12	220115.63	350126.49

1st SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1014	346+25.40	49.60' R	952.09	220115.73	350121.49
1015	346+26.89	41.95' R	952.03	220113.44	350114.04
1016	346+25.77	37.08' R	951.99	220110.16	350110.28
1017	346+22.88	32.54' R	951.95	220105.47	350107.63
1018	346+24.88	32.53' R	951.81	220107.23	350106.68
1019	346+29.61	32.52' R	951.74	220111.40	350104.44
1020	346+24.86	27.53' R	951.79	220104.86	350102.28
1021	346+22.86	27.53' R	951.92	220103.10	350103.23
1022	346+14.62	21.43' R	951.90	220092.95	350101.72
1023	346+03.85	21.23' R	951.86	220083.36	350106.62
1024	346+25.33	24.78' R	951.88	220103.98	350099.63
1025	346+33.27	37.79' R	951.78	220117.11	350107.36
1026	346+31.74	43.12' R	951.75	220118.27	350112.79

1st NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1050	346+73.43	31.96' R	951.88	220149.79	350083.30
1051	346+71.28	35.72' R	952.16	220149.66	350087.63
1052	346+77.88	26.94' R	951.93	220151.35	350076.78
1053	346+79.87	25.63' R	952.21	220152.48	350074.69
1054	346+81.21	27.04' R	952.10	220154.33	350075.30
1055	346+81.27	31.93' R	952.15	220156.69	350079.58
1056	346+86.20	26.93' R	952.18	220158.68	350072.85
1057	346+86.27	31.90' R	952.25	220161.09	350077.20
1058	346+92.20	26.91' R	952.46	220163.96	350070.01
1059	346+92.22	31.88' R	952.53	220166.32	350074.38
1060	346+98.30	31.85' R	952.57	220171.67	350071.49
1061	346+98.28	26.85' R	952.39	220169.29	350067.09
1062	347+04.61	27.03' R	952.40	220174.96	350064.27
1063	347+10.95	27.02' R	952.36	220180.55	350061.27

1st NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1064	347+17.15	26.77' R	952.45	220185.90	350058.13
1065	347+10.70	23.34' R	952.45	220178.59	350058.14
1066	347+04.58	23.40' R	952.42	220173.22	350061.07
1067	346+98.31	23.34' R	952.39	220167.67	350063.98
1068	346+92.20	23.34' R	952.36	220162.28	350066.86
1069	346+86.15	23.50' R	952.33	220157.02	350069.85
1070	346+68.12	36.45' R	951.90	220147.22	350089.77
1071	346+70.64	31.86' R	951.96	220147.27	350084.53
1072	346+74.32	26.78' R	951.99	220148.13	350078.31
1073	346+89.49	20.84' R	952.07	220158.71	350065.93
1074	347+08.38	20.84' R	952.16	220175.37	350057.03

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.



1st_W1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2000	345+95.94	34.33' L	952.43	220050.20	350061.34
2001	345+95.94	29.25' L	952.26	220052.60	350065.82
2002	346+00.19	34.24' L	952.37	220053.99	350059.42
2003	346+00.19	29.20' L	952.27	220056.37	350063.87
2004	346+04.48	34.15' L	952.30	220057.82	350057.48
2005	346+04.48	29.15' L	952.22	220060.18	350061.89
2006	346+04.47	25.36' L	951.98	220061.95	350065.24
2007	346+09.50	34.09' L	952.34	220062.28	350055.16
2008	346+09.44	29.09' L	952.24	220064.58	350059.60
2009	346+09.43	25.35' L	952.00	220066.34	350062.91
2010	346+15.06	34.12' L	952.33	220067.16	350052.52
2011	346+15.00	29.03' L	952.23	220069.51	350057.04
2012	346+00.19	22.94' L	952.04	220059.32	350069.38
2013	346+09.29	22.95' L	952.07	220067.34	350065.09

1 — CONCRETE SIDEWALK 5-INCH
2 — CONCRETE SIDEWALK 7-INCH
3 — CONCRETE CURB & GUTTER 30-INCH TYPE D
4 — CURB RAMP TYPE 1
5 — CURB RAMPS TYPE 2
6 — CURB RAMPS TYPE 2 MODIFIED
7 — CURB RAMPS TYPE 3
8 — CURB RAMPS TYPE 4A1
9 — CURB RAMPS TYPE 4B1
10 — CURB RAMPS TYPE 7A
11 — CURB RAMPS TYPE 7B
12 — 6FT CURB & GUTTER TRANSITION SECTION
13 — DETECTABLE WARNING FIELD
14 — DETECTABLE WARNING FIELD - RADIAL
15 — CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 48	E

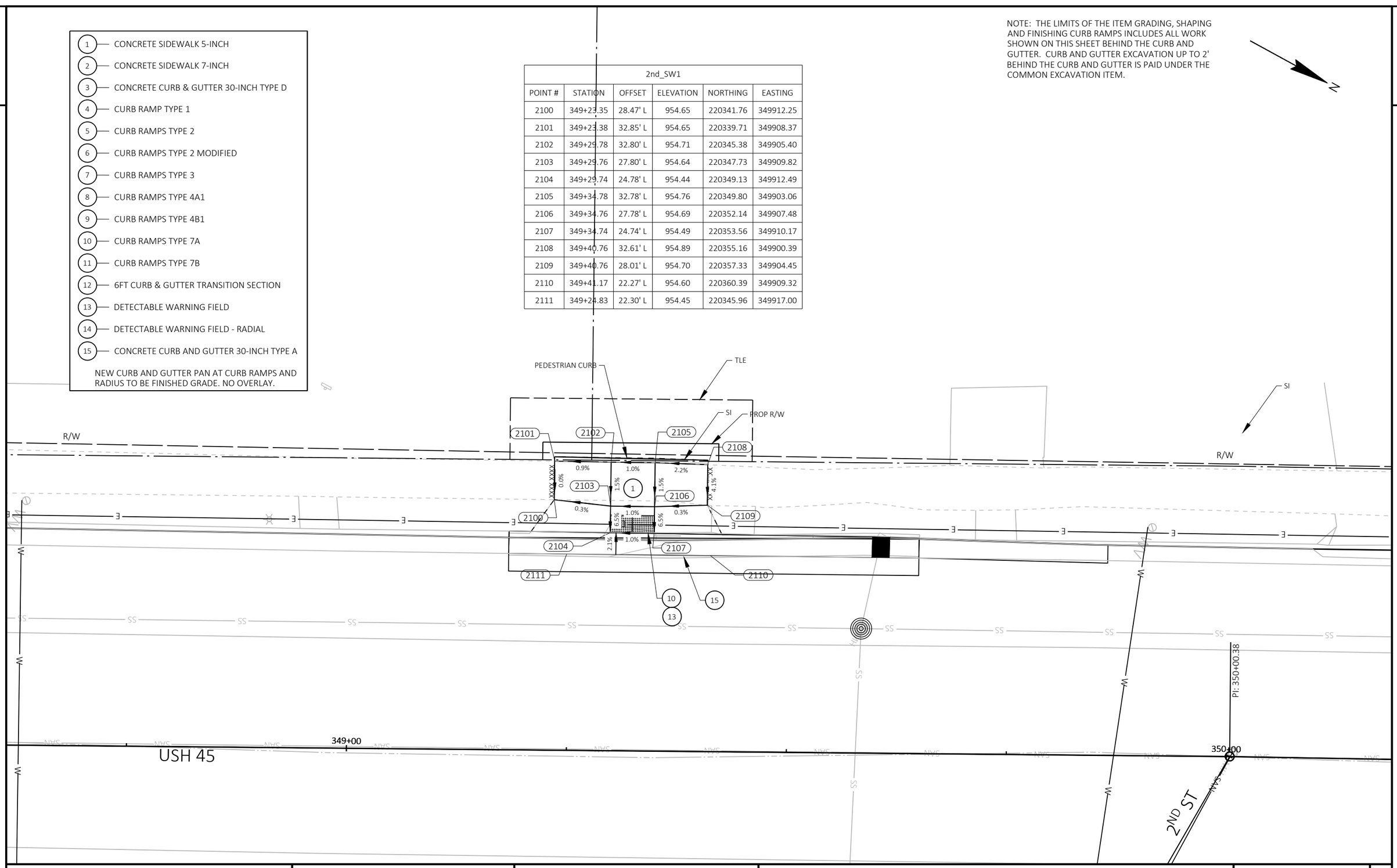
2

1 CONCRETE SIDEWALK 5-INCH
2 CONCRETE SIDEWALK 7-INCH
3 CONCRETE CURB & GUTTER 30-INCH TYPE D
4 CURB RAMP TYPE 1
5 CURB RAMPS TYPE 2
6 CURB RAMPS TYPE 2 MODIFIED
7 CURB RAMPS TYPE 3
8 CURB RAMPS TYPE 4A1
9 CURB RAMPS TYPE 4B1
10 CURB RAMPS TYPE 7A
11 CURB RAMPS TYPE 7B
12 6FT CURB & GUTTER TRANSITION SECTION
13 DETECTABLE WARNING FIELD
14 DETECTABLE WARNING FIELD - RADIAL
15 CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

2nd_SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2100	349+23.35	28.47' L	954.65	220341.76	349912.25
2101	349+23.38	32.85' L	954.65	220339.71	349908.37
2102	349+29.78	32.80' L	954.71	220345.38	349905.40
2103	349+29.76	27.80' L	954.64	220347.73	349909.82
2104	349+29.74	24.78' L	954.44	220349.13	349912.49
2105	349+34.78	32.78' L	954.76	220349.80	349903.06
2106	349+34.76	27.78' L	954.69	220352.14	349907.48
2107	349+34.74	24.74' L	954.49	220353.56	349910.17
2108	349+40.76	32.61' L	954.89	220355.16	349900.39
2109	349+40.76	28.01' L	954.70	220357.33	349904.45
2110	349+41.17	22.27' L	954.60	220360.39	349909.32
2111	349+24.83	22.30' L	954.45	220345.96	349917.00

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 49	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - 09A
PLOT DATE : 7/24/2023 4:27 PM
PLOT BY : JOSHUA MOUNT
PLOT NAME :
PLOT SCALE : 1:10

2nd_SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1100	349+25.06	33.32' R	954.97	220372.37	349965.95
1101	349+25.16	28.32' R	954.88	220370.11	349961.49
1102	349+29.54	34.00' R	954.91	220376.65	349964.43
1103	349+29.65	28.94' R	954.84	220374.36	349959.92
1104	349+29.75	24.50' R	954.54	220372.35	349955.96
1105	349+34.54	34.10' R	954.95	220381.11	349962.17
1106	349+34.65	29.04' R	954.87	220378.82	349957.66
1107	349+34.75	24.54' R	954.57	220376.78	349953.64
1108	349+38.03	29.64' R	954.91	220382.08	349956.60
1109	349+43.32	30.59' R	954.83	220387.20	349954.93
1110	349+45.79	31.03' R	954.66	220389.58	349954.16
1111	349+42.45	35.51' R	954.90	220388.74	349959.69
1112	349+44.90	35.95' R	954.73	220391.12	349958.92

2nd_SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1113	349+47.31	36.38' R	954.70	220393.44	349958.16
1114	349+37.79	39.86' R	955.05	220386.68	349965.71
1115	349+42.75	39.25' R	954.97	220390.78	349962.84
1116	349+38.39	44.82' R	955.13	220389.55	349969.81
1117	349+43.36	44.22' R	955.05	220393.65	349966.94
1118	349+37.15	34.57' R	954.99	220383.63	349961.35
1119	349+29.93	22.00' R	954.62	220371.34	349953.66
1120	349+34.96	22.04' R	954.65	220375.79	349951.33
1121	349+44.16	25.31' R	954.71	220385.45	349949.88
1122	349+48.81	31.61' R	954.75	220392.52	349953.25
1123	349+49.82	37.04' R	954.78	220395.96	349957.56
1124	349+48.33	44.19' R	954.82	220398.03	349964.57

2nd NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1150	349+92.99	57.72' R	955.80	220443.79	349955.46
1151	349+89.57	55.84' R	956.04	220439.89	349955.41
1152	349+95.81	45.53' R	955.56	220440.53	349943.38
1153	349+98.96	47.31' R	955.63	220444.14	349943.47
1154	350+02.54	41.63' R	955.83	220444.34	349936.95
1155	349+99.19	39.95' R	955.93	220440.88	349936.87
1156	350+03.19	35.73' R	955.82	220442.18	349931.42
1157	350+05.23	36.86' R	955.77	220444.50	349931.47
1158	350+07.70	33.48' R	955.92	220445.13	349927.34
1159	350+10.07	33.41' R	956.03	220447.19	349926.17

2nd NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1160	350+15.07	33.25' R	955.76	220451.55	349923.71
1161	350+10.07	28.40' R	955.93	220444.87	349921.74
1162	350+15.07	28.74' R	955.76	220449.46	349919.71
1163	350+08.63	28.31' R	955.98	220443.55	349922.33
1164	350+05.41	32.12' R	955.87	220442.46	349927.19
1165	349+91.91	49.08' R	955.59	220438.76	349948.35
1166	349+97.09	40.52' R	955.61	220439.30	349938.36
1167	350+00.81	34.84' R	955.63	220439.66	349931.73
1168	350+10.68	24.31' R	955.71	220443.51	349917.83
1169	350+20.19	23.21' R	955.86	220451.43	349912.45

2

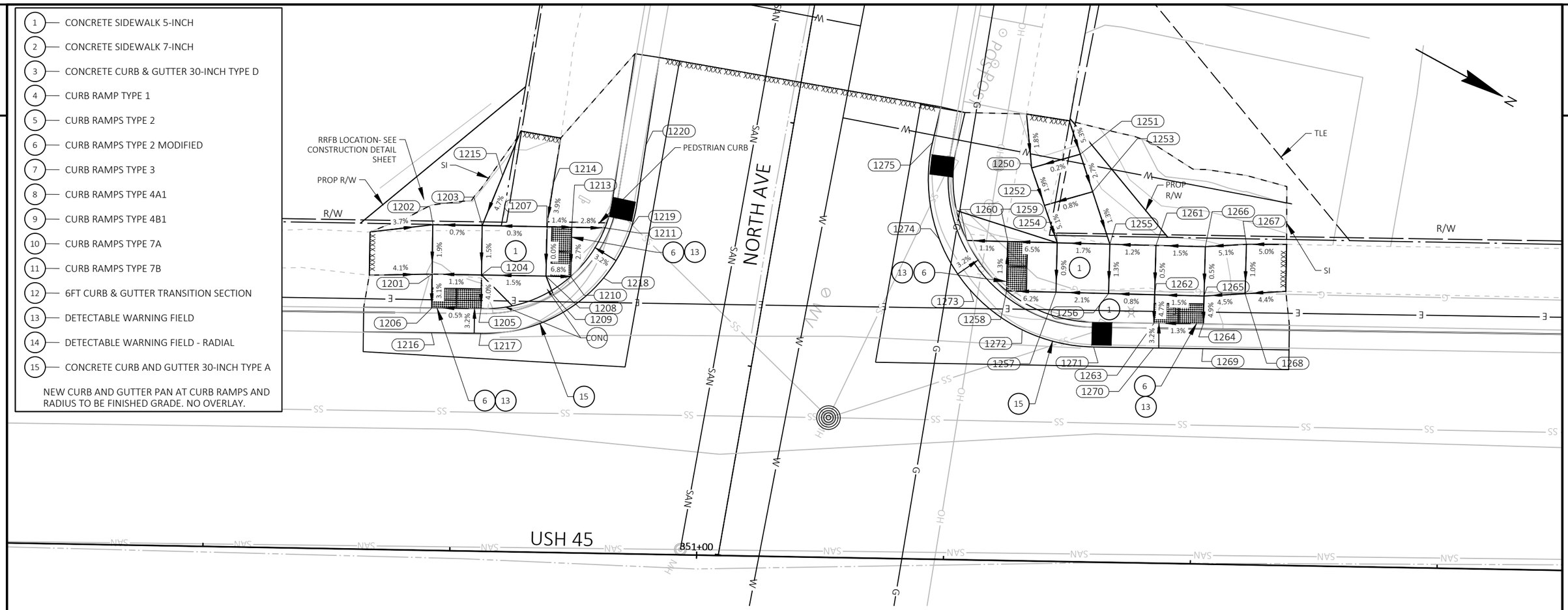


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 50	E

2

1 — CONCRETE SIDEWALK 5-INCH
2 — CONCRETE SIDEWALK 7-INCH
3 — CONCRETE CURB & GUTTER 30-INCH TYPE D
4 — CURB RAMP TYPE 1
5 — CURB RAMPS TYPE 2
6 — CURB RAMPS TYPE 2 MODIFIED
7 — CURB RAMPS TYPE 3
8 — CURB RAMPS TYPE 4A1
9 — CURB RAMPS TYPE 4B1
10 — CURB RAMPS TYPE 7A
11 — CURB RAMPS TYPE 7B
12 — 6FT CURB & GUTTER TRANSITION SECTION
13 — DETECTABLE WARNING FIELD
14 — DETECTABLE WARNING FIELD - RADIAL
15 — CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.



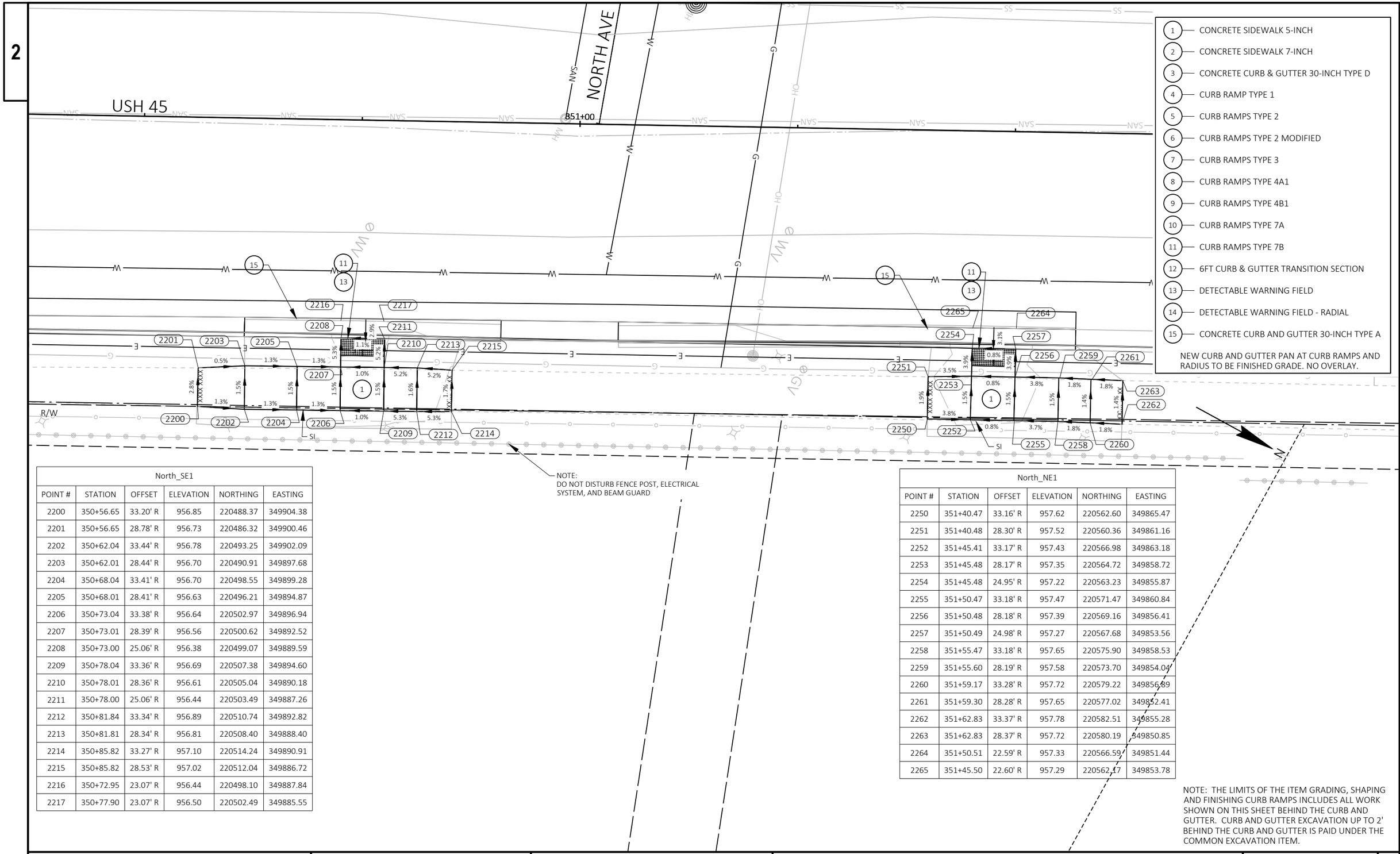
North_SW(1)					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1201	350+72.73	27.97' L	955.98	220474.23	349842.73
1202	350+72.73	32.97' L	956.07	220471.92	349838.30
1203	350+77.70	32.99' L	956.11	220476.31	349835.97
1204	350+77.73	27.97' L	956.03	220478.66	349840.41
1205	350+77.75	24.56' L	955.90	220480.26	349843.43
1206	350+72.75	24.53' L	955.87	220475.84	349845.77
1207	350+84.24	32.97' L	956.13	220482.11	349832.96
1208	350+84.24	27.97' L	956.13	220484.43	349837.39
1209	350+85.05	26.06' L	955.94	220486.03	349838.71
1210	350+86.76	27.97' L	955.96	220486.66	349836.22
1211	350+90.14	32.97' L	956.06	220487.34	349830.22
1212	350+84.78	32.99' L	956.15	220482.58	349832.69

North_SW(1)					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1213	350+86.78	32.97' L	956.10	220484.36	349831.78
1214	350+84.85	37.43' L	956.31	220480.59	349828.73
1215	350+79.68	38.06' L	956.37	220475.71	349830.56
1216	350+72.76	22.03' L	955.95	220477.02	349847.97
1217	350+77.76	22.06' L	955.98	220481.44	349845.63
1218	350+90.09	27.88' L	956.05	220489.65	349834.76
1219	350+92.85	33.17' L	956.09	220489.64	349828.80
1220	350+94.14	41.40' L	956.13	220486.97	349820.91

NORTH_NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1250	351+33.23	39.79' L	956.96	220522.35	349804.20
1251	351+38.13	41.27' L	956.95	220526.01	349800.61
1252	351+34.59	36.02' L	956.88	220525.31	349806.90
1253	351+39.45	37.49' L	956.84	220528.93	349803.35
1254	351+35.96	32.25' L	956.68	220528.26	349809.61
1255	351+41.29	32.21' L	956.77	220533.01	349807.17
1256	351+41.25	27.21' L	956.84	220535.29	349811.62
1257	351+35.91	27.25' L	956.73	220530.54	349814.06
1258	351+30.91	27.28' L	956.42	220526.10	349816.35
1259	351+30.96	32.30' L	956.36	220523.81	349811.89
1260	351+26.79	32.33' L	956.31	220520.11	349813.79
1261	351+45.96	32.15' L	956.82	220537.17	349805.06
1262	351+45.91	27.17' L	956.80	220539.44	349809.49
1263	351+45.89	24.29' L	956.66	220540.76	349812.06
1264	351+50.89	24.30' L	956.74	220545.18	349809.72

NORTH_NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1265	351+50.91	27.13' L	956.87	220543.89	349807.21
1266	351+50.96	32.13' L	956.90	220541.61	349802.76
1267	351+55.11	32.44' L	957.11	220545.14	349800.56
1268	351+55.07	27.44' L	957.06	220547.42	349805.00
1269	351+50.89	21.80' L	956.81	220546.34	349811.94
1270	351+45.89	21.79' L	956.74	220541.92	349814.27
1271	351+39.83	21.77' L	956.66	220536.56	349817.10
1272	351+32.56	23.38' L	0.00	220529.37	349819.05
1273	351+27.20	27.34' L	956.45	220522.78	349818.02
1274	351+24.02	32.39' L	956.37	220517.63	349815.02
1275	351+23.16	42.21' L	956.29	220512.31	349806.73

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.



1 — CONCRETE SIDEWALK 5-INCH
2 — CONCRETE SIDEWALK 7-INCH
3 — CONCRETE CURB & GUTTER 30-INCH TYPE D
4 — CURB RAMP TYPE 1
5 — CURB RAMPS TYPE 2
6 — CURB RAMPS TYPE 2 MODIFIED
7 — CURB RAMPS TYPE 3
8 — CURB RAMPS TYPE 4A1
9 — CURB RAMPS TYPE 4B1
10 — CURB RAMPS TYPE 7A
11 — CURB RAMPS TYPE 7B
12 — 6FT CURB & GUTTER TRANSITION SECTION
13 — DETECTABLE WARNING FIELD
14 — DETECTABLE WARNING FIELD - RADIAL
15 — CONCRETE CURB AND GUTTER 30-INCH TYPE A

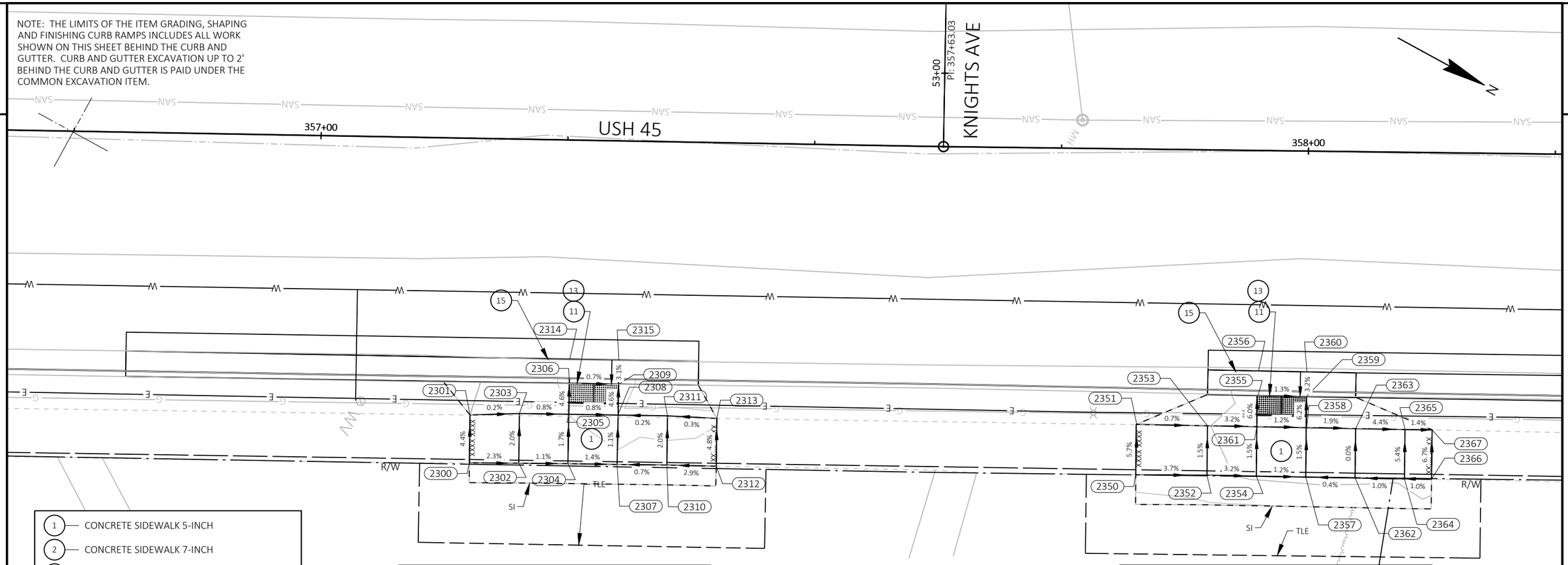
NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

North_SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2200	350+56.65	33.20' R	956.85	220488.37	349904.38
2201	350+56.65	28.78' R	956.73	220486.32	349900.46
2202	350+62.04	33.44' R	956.78	220493.25	349902.09
2203	350+62.01	28.44' R	956.70	220490.91	349897.68
2204	350+68.04	33.41' R	956.70	220498.55	349899.28
2205	350+68.01	28.41' R	956.63	220496.21	349894.87
2206	350+73.04	33.38' R	956.64	220502.97	349896.94
2207	350+73.01	28.39' R	956.56	220500.62	349892.52
2208	350+73.00	25.06' R	956.38	220499.07	349889.59
2209	350+78.04	33.36' R	956.69	220507.38	349894.60
2210	350+78.01	28.36' R	956.61	220505.04	349890.18
2211	350+78.00	25.06' R	956.44	220503.49	349887.26
2212	350+81.84	33.34' R	956.89	220510.74	349892.82
2213	350+81.81	28.34' R	956.81	220508.40	349888.40
2214	350+85.82	33.27' R	957.10	220514.24	349890.91
2215	350+85.82	28.53' R	957.02	220512.04	349886.72
2216	350+72.95	23.07' R	956.44	220498.10	349887.84
2217	350+77.90	23.07' R	956.50	220502.49	349885.55

North_NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2250	351+40.47	33.16' R	957.62	220562.60	349865.47
2251	351+40.48	28.30' R	957.52	220560.36	349861.16
2252	351+45.41	33.17' R	957.43	220566.98	349863.18
2253	351+45.48	28.17' R	957.35	220564.72	349858.72
2254	351+45.48	24.95' R	957.22	220563.23	349855.87
2255	351+50.47	33.18' R	957.47	220571.47	349860.84
2256	351+50.48	28.18' R	957.39	220569.16	349856.41
2257	351+50.49	24.98' R	957.27	220567.68	349853.56
2258	351+55.47	33.18' R	957.65	220575.90	349858.53
2259	351+55.60	28.19' R	957.58	220573.70	349854.04
2260	351+59.17	33.28' R	957.72	220579.22	349856.89
2261	351+59.30	28.28' R	957.65	220577.02	349852.41
2262	351+62.83	33.37' R	957.78	220582.51	349855.28
2263	351+62.83	28.37' R	957.72	220580.19	349850.85
2264	351+50.51	22.59' R	957.33	220566.59	349851.44
2265	351+45.50	22.60' R	957.29	220562.17	349853.78

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.



1 — CONCRETE SIDEWALK 5-INCH
2 — CONCRETE SIDEWALK 7-INCH
3 — CONCRETE CURB & GUTTER 30-INCH TYPE D
4 — CURB RAMP TYPE 1
5 — CURB RAMPS TYPE 2
6 — CURB RAMPS TYPE 2 MODIFIED
7 — CURB RAMPS TYPE 3
8 — CURB RAMPS TYPE 4A1
9 — CURB RAMPS TYPE 4B1
10 — CURB RAMPS TYPE 7A
11 — CURB RAMPS TYPE 7B
12 — 6FT CURB & GUTTER TRANSITION SECTION
13 — DETECTABLE WARNING FIELD
14 — DETECTABLE WARNING FIELD - RADIAL
15 — CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

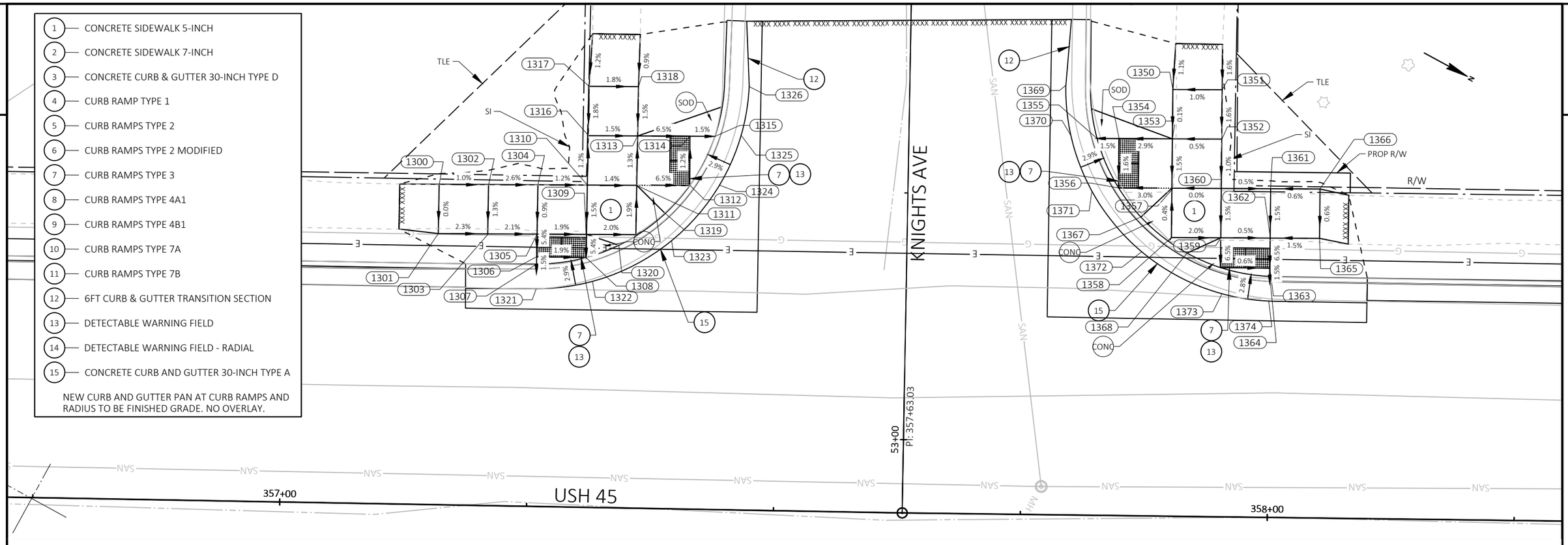
Knights_SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2300	357+15.60	32.85' R	962.76	221071.97	349598.42
2301	357+15.57	28.02' R	962.55	221069.71	349594.15
2302	357+20.60	32.81' R	962.64	221076.38	349596.06
2303	357+20.57	27.78' R	962.54	221074.03	349591.62
2304	357+25.57	32.77' R	962.58	221080.77	349593.72
2305	357+25.57	27.77' R	962.50	221078.45	349589.29
2306	357+25.58	24.63' R	962.35	221077.01	349586.50
2307	357+30.56	32.76' R	962.52	221085.18	349591.40
2308	357+30.55	27.76' R	962.46	221082.86	349586.98
2309	357+30.57	24.64' R	962.32	221081.43	349584.20
2310	357+35.60	32.74' R	962.55	221089.64	349589.04
2311	357+35.57	27.75' R	962.45	221087.30	349584.64
2312	357+40.60	32.76' R	962.69	221094.08	349586.75
2313	357+40.57	27.92' R	962.46	221091.81	349582.47
2314	357+25.57	22.20' R	962.43	221075.87	349584.36
2315	357+30.55	22.21' R	962.39	221080.28	349582.06

Knights_NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2350	357+82.91	32.98' R	962.35	221131.77	349567.14
2351	357+82.94	27.89' R	962.06	221129.41	349562.62
2352	357+90.12	32.94' R	962.09	221138.12	349563.72
2353	357+90.11	27.94' R	962.01	221135.77	349559.31
2354	357+95.12	32.97' R	961.93	221142.56	349561.40
2355	357+95.19	24.82' R	961.66	221138.79	349554.17
2356	357+95.21	22.32' R	961.74	221137.64	349551.95
2357	358+00.12	33.00' R	961.87	221146.99	349559.09
2358	358+00.17	27.95' R	961.79	221144.66	349554.61
2359	358+00.10	24.86' R	961.60	221143.15	349551.90
2360	358+00.12	22.36' R	961.68	221142.00	349549.69
2361	357+95.11	27.94' R	961.85	221140.19	349556.96
2362	358+05.12	33.04' R	961.88	221151.42	349556.78
2363	358+05.11	28.04' R	961.88	221149.07	349552.37
2364	358+10.12	33.07' R	961.93	221155.86	349554.47
2365	358+10.11	28.07' R	961.67	221153.50	349550.05
2366	358+12.86	33.07' R	961.96	221158.27	349553.18
2367	358+12.85	28.06' R	961.63	221155.92	349548.76

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 53	E

1 — CONCRETE SIDEWALK 5-INCH
2 — CONCRETE SIDEWALK 7-INCH
3 — CONCRETE CURB & GUTTER 30-INCH TYPE D
4 — CURB RAMP TYPE 1
5 — CURB RAMPS TYPE 2
6 — CURB RAMPS TYPE 2 MODIFIED
7 — CURB RAMPS TYPE 3
8 — CURB RAMPS TYPE 4A1
9 — CURB RAMPS TYPE 4B1
10 — CURB RAMPS TYPE 7A
11 — CURB RAMPS TYPE 7B
12 — 6FT CURB & GUTTER TRANSITION SECTION
13 — DETECTABLE WARNING FIELD
14 — DETECTABLE WARNING FIELD - RADIAL
15 — CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.



Knights SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1300	357+15.58	32.43' L	962.10	221041.67	349540.59
1301	357+15.58	27.48' L	962.10	221043.97	349544.98
1302	357+20.58	32.49' L	962.04	221046.08	349538.23
1303	357+20.64	27.54' L	961.98	221048.43	349542.58
1304	357+25.58	32.60' L	961.92	221050.45	349535.81
1305	357+25.58	27.60' L	961.87	221052.77	349540.24
1306	357+25.57	25.31' L	961.75	221053.83	349542.26
1307	357+25.59	24.56' L	961.74	221054.19	349542.92
1308	357+30.57	25.31' L	961.65	221058.26	349539.95
1309	357+30.54	27.66' L	961.78	221057.14	349537.88
1310	357+30.58	32.66' L	961.85	221054.86	349533.43
1311	357+35.46	32.76' L	961.78	221059.14	349531.08
1312	357+40.94	32.84' L	961.43	221063.95	349528.47
1313	357+35.58	37.72' L	961.72	221056.94	349526.63
1314	357+40.88	37.79' L	961.37	221061.60	349524.11
1315	357+43.40	37.82' L	961.34	221063.82	349522.92

Knights SW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1316	357+30.61	37.66' L	961.79	221052.57	349528.99
1317	357+30.58	42.66' L	961.88	221050.22	349524.57
1318	357+35.58	42.72' L	961.79	221054.62	349522.20
1319	357+38.45	29.97' L	961.82	221063.08	349532.16
1320	357+33.87	26.61' L	961.92	221060.58	349537.26
1321	357+25.59	22.06' L	961.81	221055.35	349545.14
1322	357+31.27	22.91' L	961.72	221059.99	349541.75
1323	357+39.21	27.17' L	961.59	221065.05	349534.29
1324	357+43.93	32.89' L	961.48	221066.58	349527.03
1325	357+46.05	37.98' L	961.39	221066.10	349521.54
1326	357+46.78	42.93' L	961.29	221064.45	349516.82

Knights NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1350	357+89.91	43.24' L	961.33	221102.24	349496.52
1351	357+94.91	43.27' L	961.38	221106.64	349494.15
1352	357+94.95	38.27' L	961.31	221109.02	349498.55
1353	357+89.93	38.24' L	961.33	221104.60	349500.93
1354	357+84.53	38.20' L	961.17	221099.85	349503.49
1355	357+82.30	38.19' L	961.14	221097.89	349504.55
1356	357+84.54	33.20' L	961.09	221102.20	349507.90
1357	357+90.07	33.24' L	961.25	221107.07	349505.28
1358	357+89.95	28.24' L	961.27	221109.31	349509.75
1359	357+94.95	28.27' L	961.18	221113.71	349507.38
1360	357+94.94	33.27' L	961.25	221111.35	349502.97
1361	357+99.94	33.29' L	961.22	221115.76	349500.61
1362	357+99.97	28.31' L	961.15	221118.13	349505.00
1363	357+99.96	25.27' L	960.95	221119.54	349507.68
1364	357+99.96	24.42' L	960.94	221119.94	349508.43
1365	358+04.95	28.34' L	961.23	221122.51	349502.63

Knights NW1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1366	358+04.92	33.34' L	961.26	221120.14	349498.23
1367	357+86.84	30.27' L	961.39	221105.60	349509.41
1368	357+91.55	26.69' L	961.34	221111.45	349510.38
1369	357+79.08	43.54' L	961.12	221092.53	349501.33
1370	357+79.65	38.42' L	961.22	221095.44	349505.58
1371	357+81.84	32.85' L	961.17	221099.98	349509.48
1372	357+86.96	26.77' L	961.11	221107.35	349512.46
1373	357+95.15	22.62' L	961.05	221116.53	349512.28
1374	357+99.89	21.92' L	961.01	221121.04	349510.68

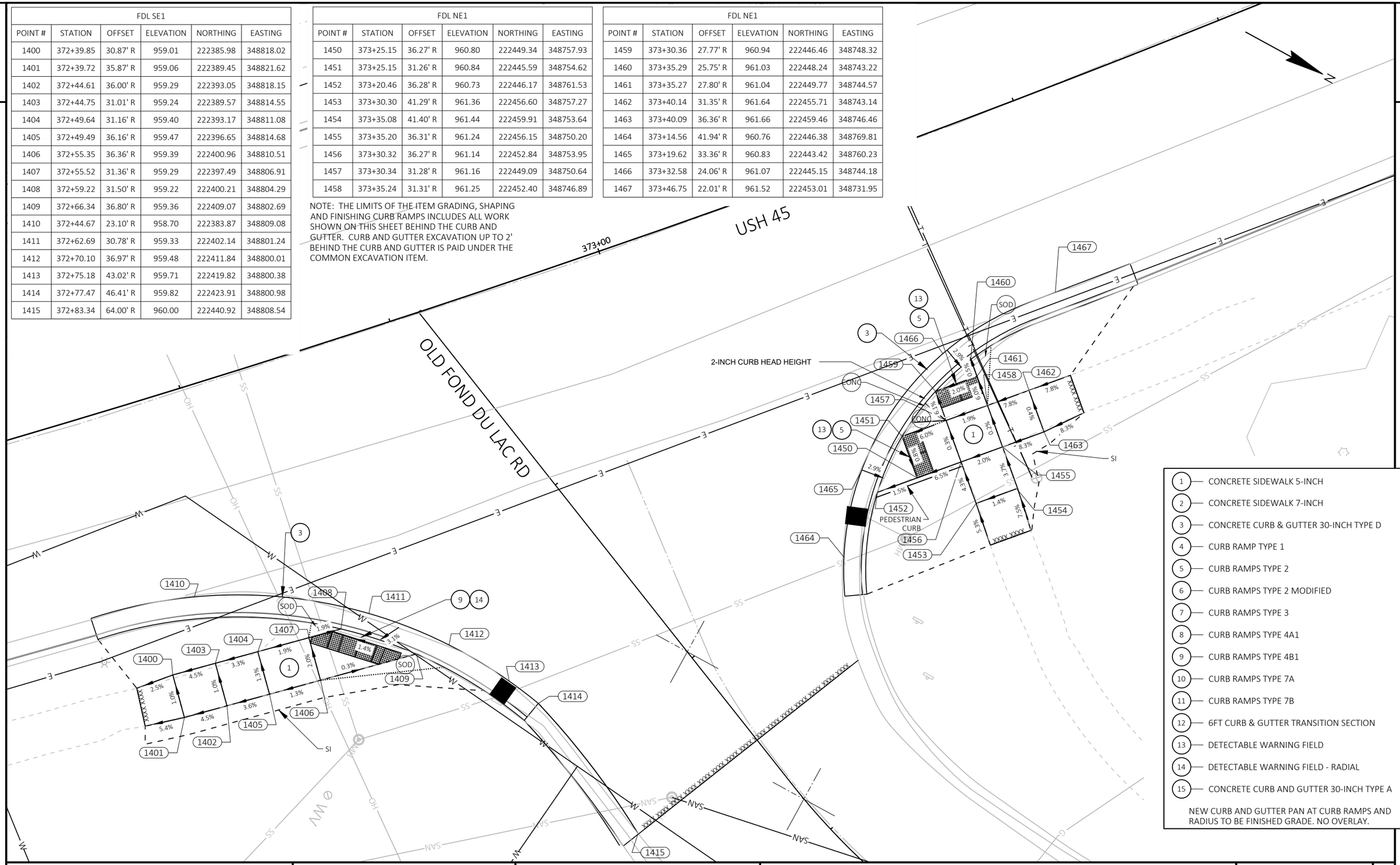
NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

FDL SE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1400	372+39.85	30.87' R	959.01	222385.98	348818.02
1401	372+39.72	35.87' R	959.06	222389.45	348821.62
1402	372+44.61	36.00' R	959.29	222393.05	348818.15
1403	372+44.75	31.01' R	959.24	222389.57	348814.55
1404	372+49.64	31.16' R	959.40	222393.17	348811.08
1405	372+49.49	36.16' R	959.47	222396.65	348814.68
1406	372+55.35	36.36' R	959.39	222400.96	348810.51
1407	372+55.52	31.36' R	959.29	222397.49	348806.91
1408	372+59.22	31.50' R	959.22	222400.21	348804.29
1409	372+66.34	36.80' R	959.36	222409.07	348802.69
1410	372+44.67	23.10' R	958.70	222383.87	348809.08
1411	372+62.69	30.78' R	959.33	222402.14	348801.24
1412	372+70.10	36.97' R	959.48	222411.84	348800.01
1413	372+75.18	43.02' R	959.71	222419.82	348800.38
1414	372+77.47	46.41' R	959.82	222423.91	348800.98
1415	372+83.34	64.00' R	960.00	222440.92	348808.54

FDL NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1450	373+25.15	36.27' R	960.80	222449.34	348757.93
1451	373+25.15	31.26' R	960.84	222445.59	348754.62
1452	373+20.46	36.28' R	960.73	222446.17	348761.53
1453	373+30.30	41.29' R	961.36	222456.60	348757.27
1454	373+35.08	41.40' R	961.44	222459.91	348753.64
1455	373+35.20	36.31' R	961.24	222456.15	348750.20
1456	373+30.32	36.27' R	961.14	222452.84	348753.95
1457	373+30.34	31.28' R	961.16	222449.09	348750.64
1458	373+35.24	31.31' R	961.25	222452.40	348746.89

FDL NE1					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1459	373+30.36	27.77' R	960.94	222446.46	348748.32
1460	373+35.29	25.75' R	961.03	222448.24	348743.22
1461	373+35.27	27.80' R	961.04	222449.77	348744.57
1462	373+40.14	31.35' R	961.64	222455.71	348743.14
1463	373+40.09	36.36' R	961.66	222459.46	348746.46
1464	373+14.56	41.94' R	960.76	222446.38	348769.81
1465	373+19.62	33.36' R	960.83	222443.42	348760.23
1466	373+32.58	24.06' R	961.07	222445.15	348744.18
1467	373+46.75	22.01' R	961.52	222453.01	348731.95

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

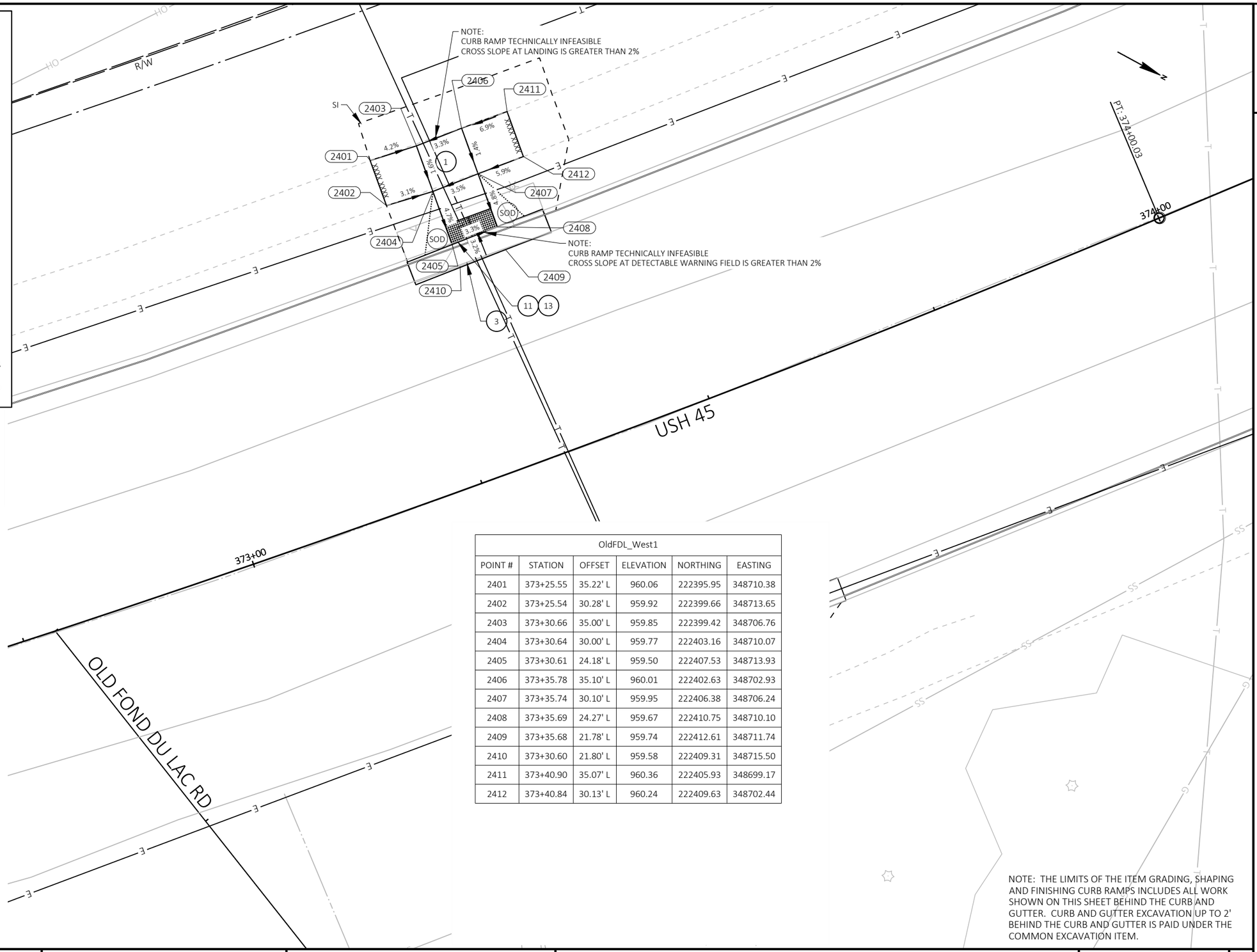


1	CONCRETE SIDEWALK 5-INCH
2	CONCRETE SIDEWALK 7-INCH
3	CONCRETE CURB & GUTTER 30-INCH TYPE D
4	CURB RAMP TYPE 1
5	CURB RAMPS TYPE 2
6	CURB RAMPS TYPE 2 MODIFIED
7	CURB RAMPS TYPE 3
8	CURB RAMPS TYPE 4A1
9	CURB RAMPS TYPE 4B1
10	CURB RAMPS TYPE 7A
11	CURB RAMPS TYPE 7B
12	6FT CURB & GUTTER TRANSITION SECTION
13	DETECTABLE WARNING FIELD
14	DETECTABLE WARNING FIELD - RADIAL
15	CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

1. CONCRETE SIDEWALK 5-INCH
2. CONCRETE SIDEWALK 7-INCH
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CURB RAMP TYPE 1
5. CURB RAMPS TYPE 2
6. CURB RAMPS TYPE 2 MODIFIED
7. CURB RAMPS TYPE 3
8. CURB RAMPS TYPE 4A1
9. CURB RAMPS TYPE 4B1
10. CURB RAMPS TYPE 7A
11. CURB RAMPS TYPE 7B
12. 6FT CURB & GUTTER TRANSITION SECTION
13. DETECTABLE WARNING FIELD
14. DETECTABLE WARNING FIELD - RADIAL
15. CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.



OldFDL_West1

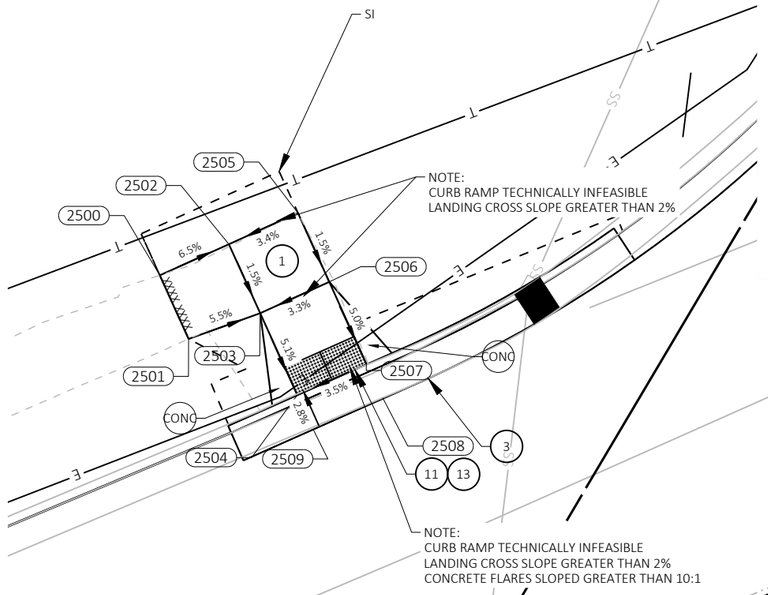
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2401	373+25.55	35.22' L	960.06	222395.95	348710.38
2402	373+25.54	30.28' L	959.92	222399.66	348713.65
2403	373+30.66	35.00' L	959.85	222399.42	348706.76
2404	373+30.64	30.00' L	959.77	222403.16	348710.07
2405	373+30.61	24.18' L	959.50	222407.53	348713.93
2406	373+35.78	35.10' L	960.01	222402.63	348702.93
2407	373+35.74	30.10' L	959.95	222406.38	348706.24
2408	373+35.69	24.27' L	959.67	222410.75	348710.10
2409	373+35.68	21.78' L	959.74	222412.61	348711.74
2410	373+30.60	21.80' L	959.58	222409.31	348715.50
2411	373+40.90	35.07' L	960.36	222405.93	348699.17
2412	373+40.84	30.13' L	960.24	222409.63	348702.44

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.

1. CONCRETE SIDEWALK 5-INCH
2. CONCRETE SIDEWALK 7-INCH
3. CONCRETE CURB & GUTTER 30-INCH TYPE D
4. CURB RAMP TYPE 1
5. CURB RAMPS TYPE 2
6. CURB RAMPS TYPE 2 MODIFIED
7. CURB RAMPS TYPE 3
8. CURB RAMPS TYPE 4A1
9. CURB RAMPS TYPE 4B1
10. CURB RAMPS TYPE 7A
11. CURB RAMPS TYPE 7B
12. 6FT CURB & GUTTER TRANSITION SECTION
13. DETECTABLE WARNING FIELD
14. DETECTABLE WARNING FIELD - RADIAL
15. CONCRETE CURB AND GUTTER 30-INCH TYPE A

NEW CURB AND GUTTER PAN AT CURB RAMPS AND RADIUS TO BE FINISHED GRADE. NO OVERLAY.

NOTE: THE LIMITS OF THE ITEM GRADING, SHAPING AND FINISHING CURB RAMPS INCLUDES ALL WORK SHOWN ON THIS SHEET BEHIND THE CURB AND GUTTER. CURB AND GUTTER EXCAVATION UP TO 2' BEHIND THE CURB AND GUTTER IS PAID UNDER THE COMMON EXCAVATION ITEM.



STH28W_West					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2500	374+92.61	34.97' L	965.96	222500.60	348582.38
2501	374+92.73	30.37' L	965.84	222504.28	348585.16
2502	374+97.60	35.10' L	965.64	222503.62	348578.40
2503	374+97.74	30.10' L	965.56	222507.61	348581.41
2504	374+97.91	24.17' L	965.25	222512.35	348584.97
2505	375+02.60	35.24' L	965.80	222506.62	348574.40
2506	375+02.74	30.24' L	965.73	222510.62	348577.41
2507	375+02.91	24.29' L	965.43	222515.37	348580.99
2508	375+03.04	21.82' L	965.49	222517.38	348582.43
2509	374+98.00	21.67' L	965.33	222514.36	348586.46

STH28W_East					
POINT #	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2550	374+94.57	35.47' R	966.05	222556.90	348624.76
2551	374+94.43	30.52' R	965.86	222552.94	348621.79
2552	374+99.57	35.35' R	965.68	222559.93	348620.78
2553	374+99.43	30.35' R	965.61	222555.93	348617.78
2554	374+99.26	24.29' R	965.22	222551.09	348614.13
2555	375+04.57	35.21' R	965.76	222562.93	348616.79
2556	375+04.43	30.22' R	965.69	222558.94	348613.78
2557	375+04.26	24.29' R	965.33	222554.20	348610.22
2558	375+04.26	21.79' R	965.41	222552.25	348608.67
2559	374+99.46	21.79' R	965.30	222549.26	348612.42
2560	375+09.57	35.07' R	966.07	222565.94	348612.80
2561	375+09.43	30.08' R	966.00	222561.95	348609.79
2562	375+14.58	35.39' R	966.46	222569.31	348609.07
2563	375+14.45	30.70' R	966.31	222565.56	348606.25

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 57	E

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD

CTH H WEST

CTH H WEST R/L

EXISTING R/W

313+14.56, 78.20' LT

313+68, 76.4' LT

314+22, 103.9' LT

SLOPE INTERCEPT

314+72.11, 86.97' LT

CP50

CP1

SLOPE INTERCEPT

313+15

R56.4'

R55.0'

314+72

BEGIN CONSTRUCTION

CB6

CG3

316+73

316+81

313+00

314+00

315+00

316+00

317+00

318+00

HMA

SRC

MATCH LINE STA 318+75

CG1

313+14

313+38

314+06

314+16

314+39

314+60

315+45

315+89

SLOPE INTERCEPT

SLOPE INTERCEPT

EXISTING R/W

BENCHMARKS

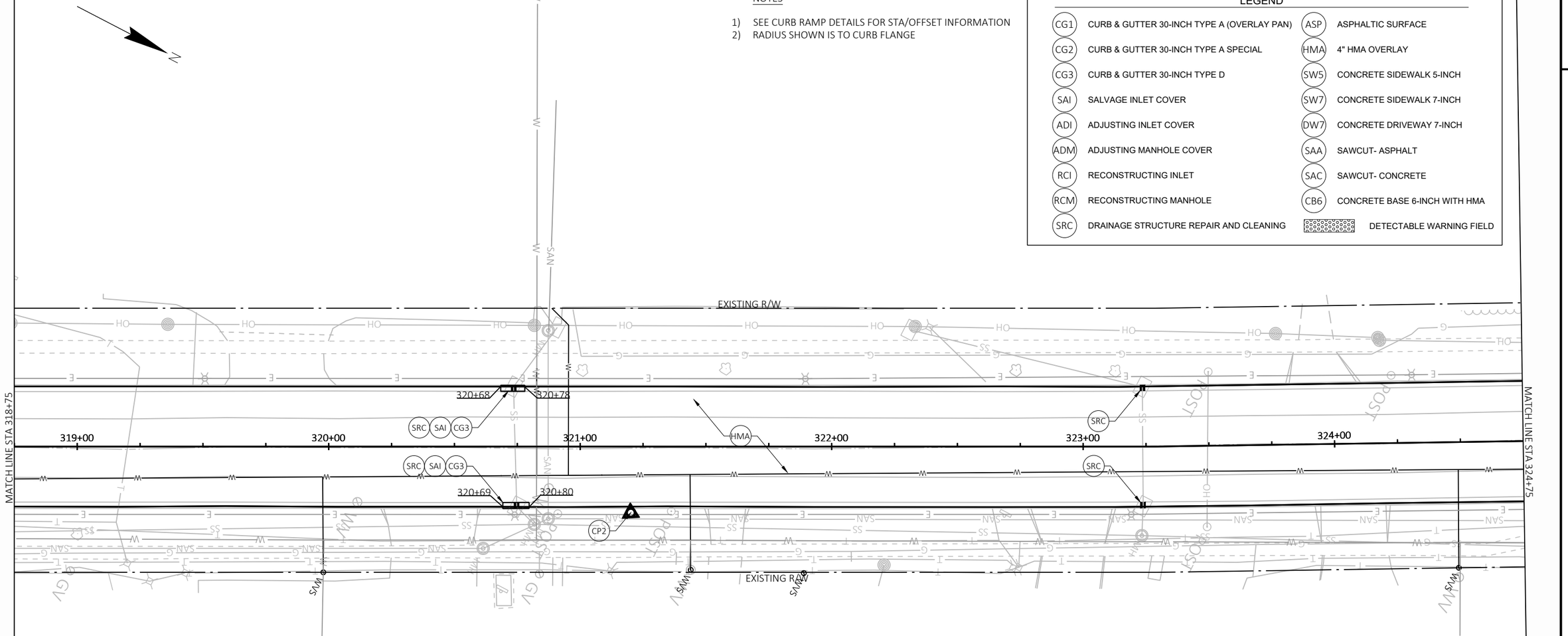
NO.	STATION	DESCRIPTION	ELEVATION
CP1	313+49, 51' LT	2" ALUMINUM CAP (BERNSTEN)	967.19
CP50	313+54, 72' LT	DRILL HOLE ON HYDRANT BOLT	968.94

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD



BENCHMARKS

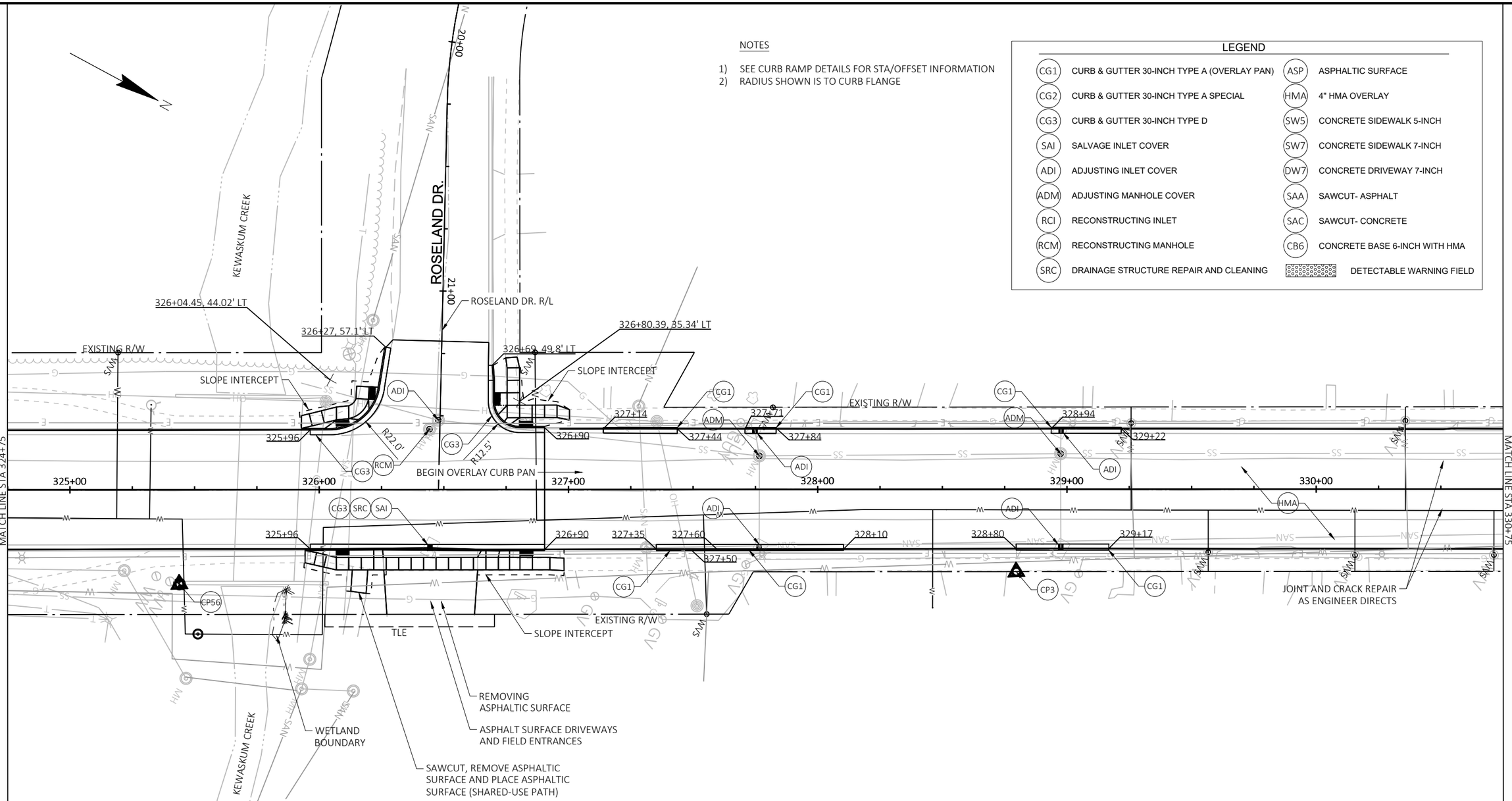
NO.	STATION	DESCRIPTION	ELEVATION
CP2	321+20, 26' RT	2" ALUMINUM CAP (BERNSTEN)	941.83

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD



BENCHMARKS

NO.	STATION	DESCRIPTION	ELEVATION
CP56	325+44, 38' RT	DRILL HOLE ON WISDOT MONOMENT	934.30
CP3	328+80, 33' RT	2" ALUMINUM CAP (BERNSTEN)	937.66

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD

CLINTON ST

CLINTON ST R/L

28+00

29+00

334+34, 50.0' LT

334+19.04, 39.15' LT

334+70, 50.0' LT

334+84.11, 38.77' LT

SLOPE INTERCEPT

EXISTING R/W

336+74

331+19

331+33

331+82

332+13

333+16

333+30

333+64

334+09

334+91

R17.0'

R16.0'

331+00

332+00

333+00

334+00

335+00

336+00

MATCH LINE STA 330+75

MATCH LINE STA 336+75

27+00

R18.0'

R18.5'

331+16

332+12

333+32

333+63

334+09

334+86

331+28.96, 39.99' RT

331+93.83, 40.45' RT

331+47, 55.5' RT

331+75, 55.2' RT

334+20.09, 39.07' RT

334+35, 47.6' RT

334+78.66, 35.91' R

334+66, 47.8' RT

STA 30+20, 16.0' LT
INLETS 4-FT DIAMETER, INLET COVER TYPE H-S

JOINT AND CRACK REPAIR
AS ENGINEER DIRECTS

ELM ST

ELM ST R/L

28+00

31+00

39+00

BENCHMARKS

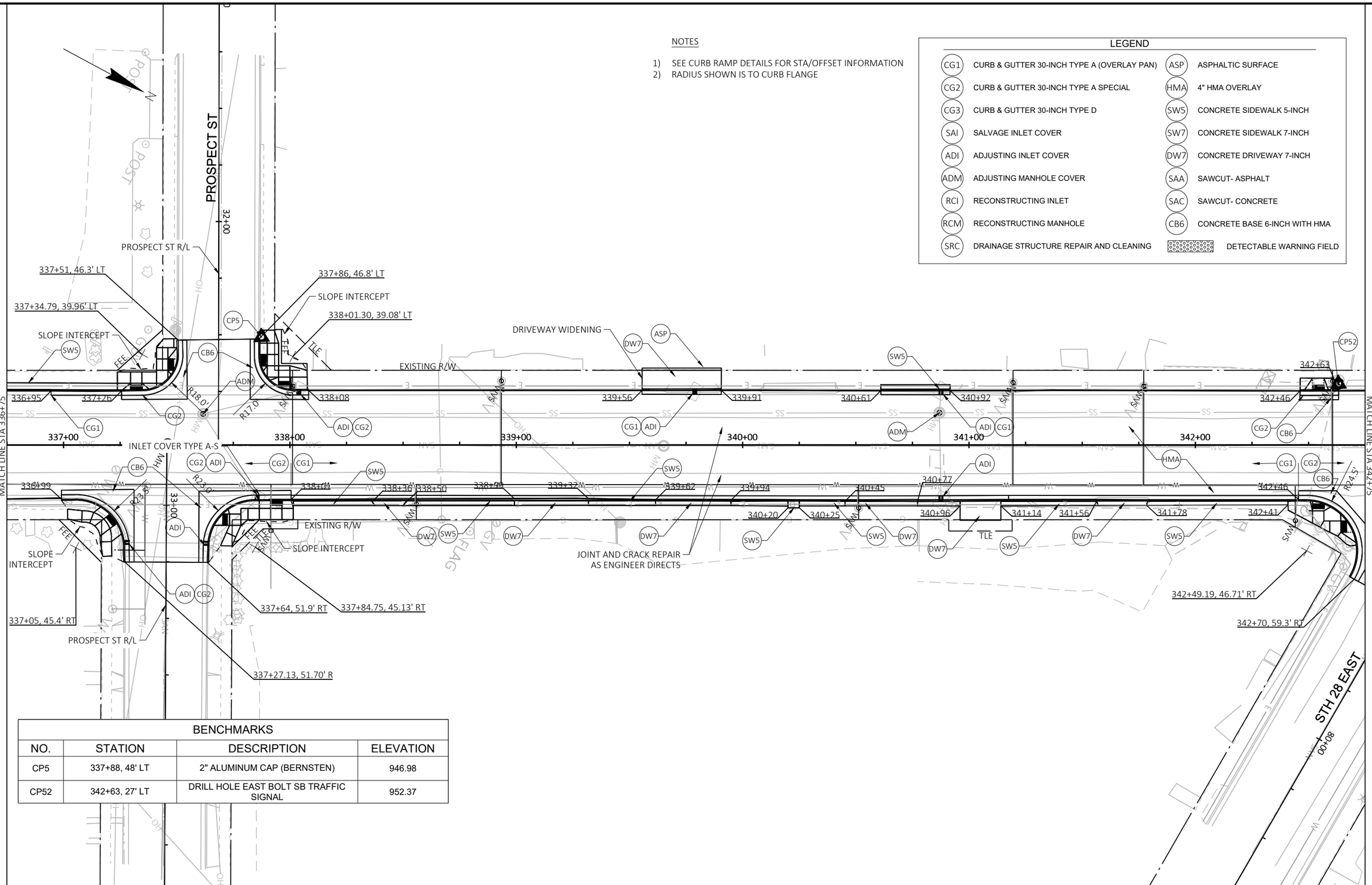
NO.	STATION	DESCRIPTION	ELEVATION
CP51	334+26, 34' LT	DRILL HOLE EAST SIGN BASE BOLT	943.29
CP4	334+77, 55' LT	2" ALUMINUM CAP (BERNSTEN)	942.40

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD



BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEVATION
CP5	337+88, 48' LT	2" ALUMINUM CAP (BERNSTEN)	946.98
CP52	342+63, 27' LT	DRILL HOLE EAST BOLT SB TRAFFIC SIGNAL	952.37

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD

FOREST AVE R/L

FOREST AVE

344+75, 48.6' LT

STA 39+82, 15.0' RT
INLETS 2X3-FT, INLET COVER TYPE H-S

345+06, 47.3' LT

STA 39+78, 16.0' LT
INLETS 2X3-FT, INLET COVER TYPE H-S

344+59.23, 39.11' LT

345+17.56, 36.45' LT

EXISTING R/W

TLE

343+59

343+05

343+15

343+46

344+45

345+27

345+93

346+15

346+48

346+69

348+37

348+46

MATCH LINE STA 342+75

MATCH LINE STA 348+50

343+00

344+00

345+00

346+00

347+00

348+00

INLET COVER TYPE A-S

343+66

344+94

345+26

345+54

345+99

347+18

JOINT AND CRACK REPAIR
AS ENGINEER DIRECTS

SLOPE INTERCEPT

INLET COVER
TYPE A-S

343+32, 44.7'RT

343+59.76, 52.13' RT

346+14.93, 38.24'RT

346+21.33, 37.17'RT

346+27, 47.3' RT

346+88.52, 40.84' RT

346+68, 40.7' RT

1ST ST R/L

STH 28 EAST R/L

1ST ST.

BENCHMARKS

NO.	STATION	DESCRIPTION	ELEVATION
CP6	344+78, 34' RT	2" ALUMINUM CAP (BERNSTEN)	951.68

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PLAN DETAILS	SHEET 63 E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 06

PLOT DATE : 9/6/2023 4:56 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD

MATCH LINE STA 348+50

MATCH LINE STA 354+50

NORTH AVE

NORTH AVE R/L

2ND ST.

2ND ST R/L

EXISTING R/W

TLE

FEE

SLOPE INTERCEPT

RRFB LOCATION- SEE CONSTRUCTION DETAIL SHEET

350+94, 50.5' LT

351+26, 45.5' LT

STA 46+63, 16.0' LT
INLETS 2X3-FT, INLET COVER TYPE H-S

STA 46+73, 16.0' RT
INLETS 2X3-FT, INLET COVER TYPE H-S

350+77.98, 37.56' LT

351+39.78, 38.76' LT

349+34.83, 37.04' RT

349+46, 46.6' RT

349+91, 51.8' RT

350+16.25, 38.22' RT

STA 45+91, 26.5' RT
INLETS 2X3-FT, INLET COVER TYPE H-S

STA 45+60, 18.5' LT
MANHOLE 6-FT DIAMETER, , INLET COVER TYPE H-S

INLET COVER TYPE A-S

CONSTRUCT BERM - SEE CONSTRUCTION DETAIL

FENCE AND BEAM GUARD EXEMPT FROM TLE

JOINT AND CRACK REPAIR AS ENGINEER DIRECTS

349+18 349+65 349+86 349+21 350+00 350+62 350+27 350+66 351+00 351+57 351+60 352+00 352+39 352+49 352+96 353+00 353+24 353+39 353+76 354+00 354+12 354+16

R155' R17.0' R15.0' R15.0'

BENCHMARKS

NO.	STATION	DESCRIPTION	ELEVATION
CP7	352+59, 25' LT	2" ALUMINUM CAP (BERNSTEN)	958.34

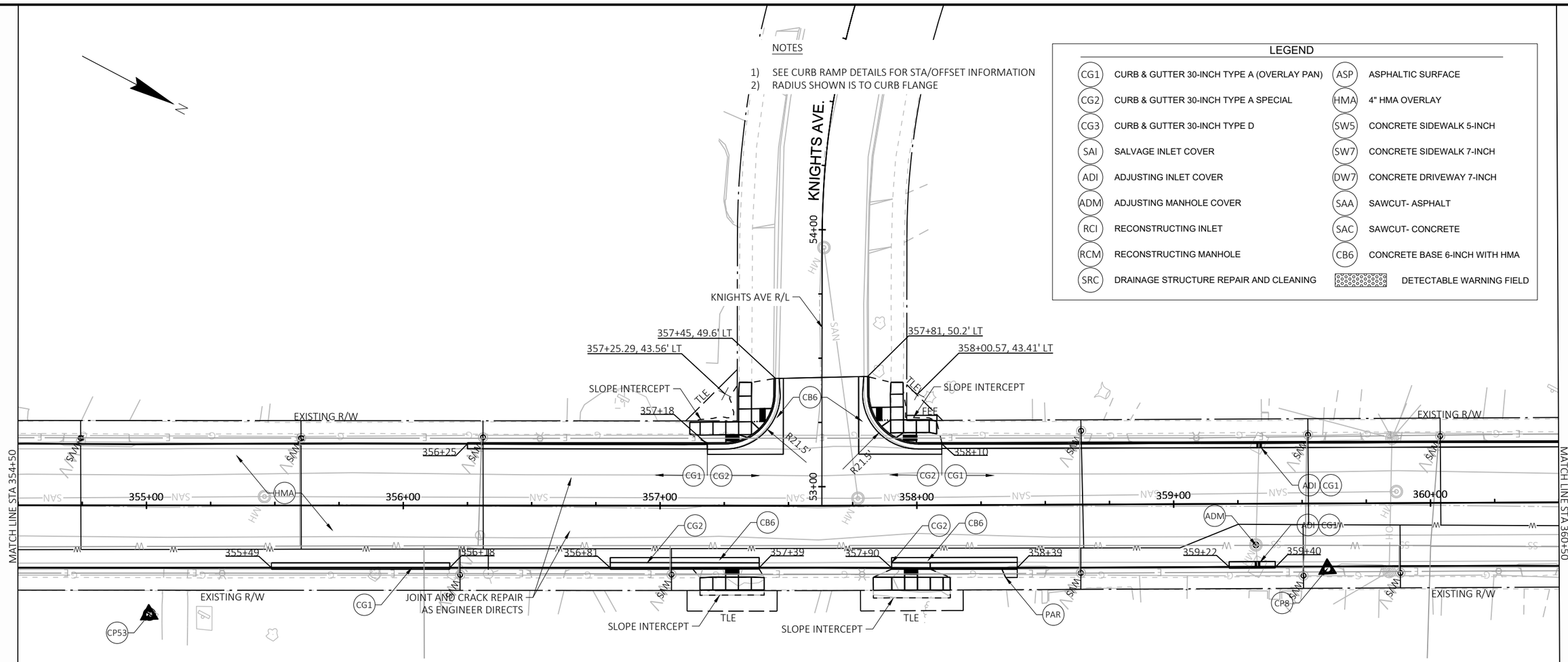
2

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD



BENCHMARKS

NO.	STATION	DESCRIPTION	ELEVATION
CP53	355+01, 42' RT	DRILL HOLE SW BASE BOLT FOR AMERICAN LEGION SIGN	962.84
CP8	359+60, 25' RT	2" ALUMINUM CAP (BERNSTEN)	957.73

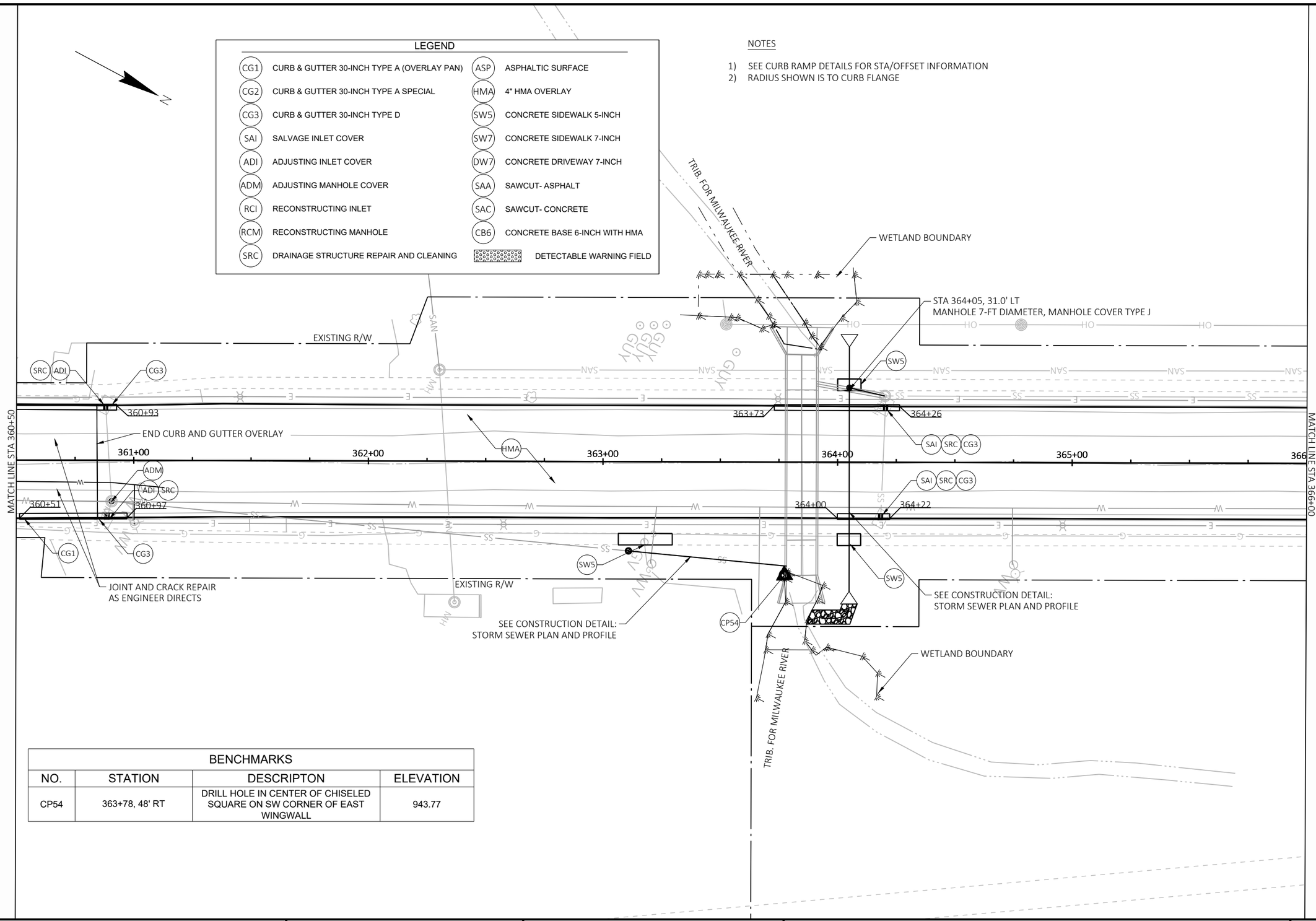
2

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE



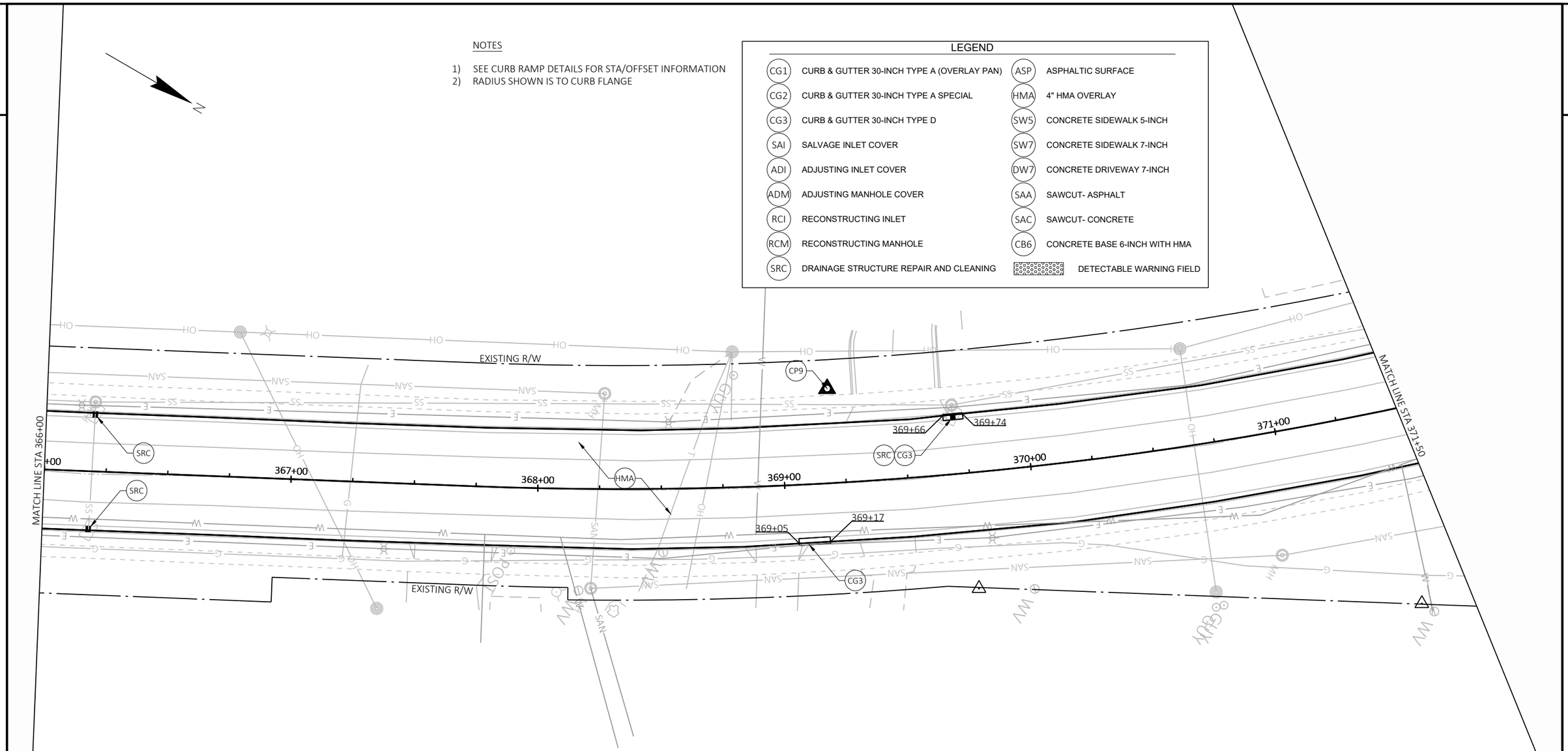
BENCHMARKS			
NO.	STATION	DESCRIPTON	ELEVATION
CP54	363+78, 48' RT	DRILL HOLE IN CENTER OF CHISELED SQUARE ON SW CORNER OF EAST WINGWALL	943.77

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD



BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEVATION
CP9	369+19, 38' LT	2" ALUMINUM CAP (BERNSTEN)	948.11

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PLAN DETAILS	SHEET 67	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 10
PLOT DATE : 9/6/2023 4:56 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

CG1	CURB & GUTTER 30-INCH TYPE A (OVERLAY PAN)	ASP	ASPHALTIC SURFACE
CG2	CURB & GUTTER 30-INCH TYPE A SPECIAL	HMA	4" HMA OVERLAY
CG3	CURB & GUTTER 30-INCH TYPE D	SW5	CONCRETE SIDEWALK 5-INCH
SAI	SALVAGE INLET COVER	SW7	CONCRETE SIDEWALK 7-INCH
ADI	ADJUSTING INLET COVER	DW7	CONCRETE DRIVEWAY 7-INCH
ADM	ADJUSTING MANHOLE COVER	SAA	SAWCUT- ASPHALT
RCI	RECONSTRUCTING INLET	SAC	SAWCUT- CONCRETE
RCM	RECONSTRUCTING MANHOLE	CB6	CONCRETE BASE 6-INCH WITH HMA
SRC	DRAINAGE STRUCTURE REPAIR AND CLEANING		DETECTABLE WARNING FIELD

NOTES

1) SEE CURB RAMP DETAILS FOR STA/OFFSET INFORMATION
2) RADIUS SHOWN IS TO CURB FLANGE

N

MATCH LINE STA 371+50

372+00 373+00 374+00 375+00 376+00 377+00

STH 28 WEST R/L — STH 28 WEST — 00+69 — 70+00 — 71+00

EXISTING R/W

SLOPE INTERCEPT

373+26 373+41 374+93 375+22

SRC CG3 ADI CG3 SRC

CP10

END CONSTRUCTION

HMA

372+33 R53.3' 373+56 R32.4' 374+83 375+09

CG3 SRC ADI SRC CG3 ADI

CP55

372+34.41, 75.36' RT

372+81, 64.8' RT

373+15, 46.6' RT

373+43.56, 54.47' RT

OLD FOND DU LAC RD R/L — 69+00 — OLD FOND DU LAC RD. — 70+00

EXISTING R/W

EXISTING R/W

SLOPE INTERCEPT

SLOPE INTERCEPT

SLOPE INTERCEPT

SLOPE INTERCEPT

BENCHMARKS

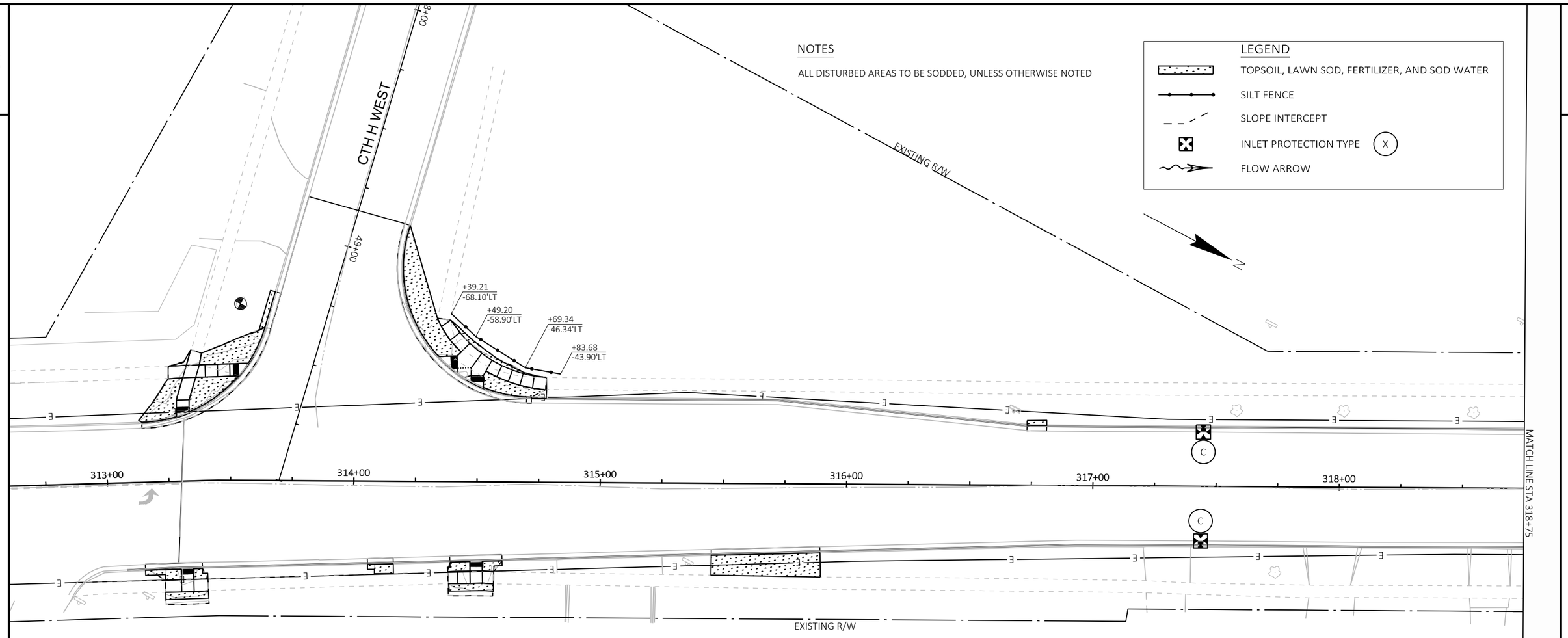
NO.	STATION	DESCRIPTION	ELEVATION
CP55	372+64, 70' RT	DRILL HOLE IN BOLT HYDRANT	958.39
CP10	376+71, 45' LT	2" ALUMINUM CAP (BERNSTEN)	970.28

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW



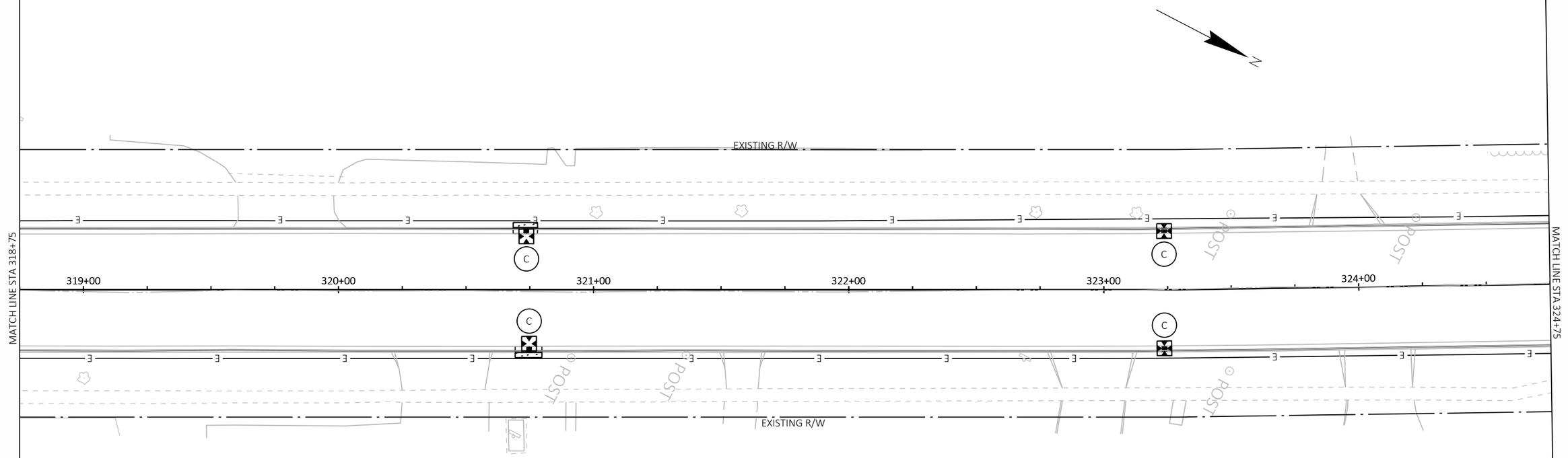
2

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW



2

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 70	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 10/27/2022 12:50 PM PLOT BY : PINTER, ANDREW D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW

N

KEWASKUM CREEK

ROSELAND DR.

20+00

21+00

+23.83
-59.66'LT

+18.34
-45.35'LT

+11.31
-45.74'LT

+10.48
-37.75'LT

+91.59
-32.96'LT

+86.49
-32.94'LT

EXISTING R/W

EXISTING R/W

B

C

C

MATCH LINE STA 324+75

325+00

326+00

327+00

328+00

329+00

330+00

MATCH LINE STA 330+75

+93.87
34.25'RT

+88.87
34.27'RT

D

C

C

+05.37
36.86'RT

+05.26
55.11'RT

TLE

EXISTING R/W

B-66-129

WETLAND BOUNDARY, TYP

KEWASKUM CREEK

2

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 71	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 03

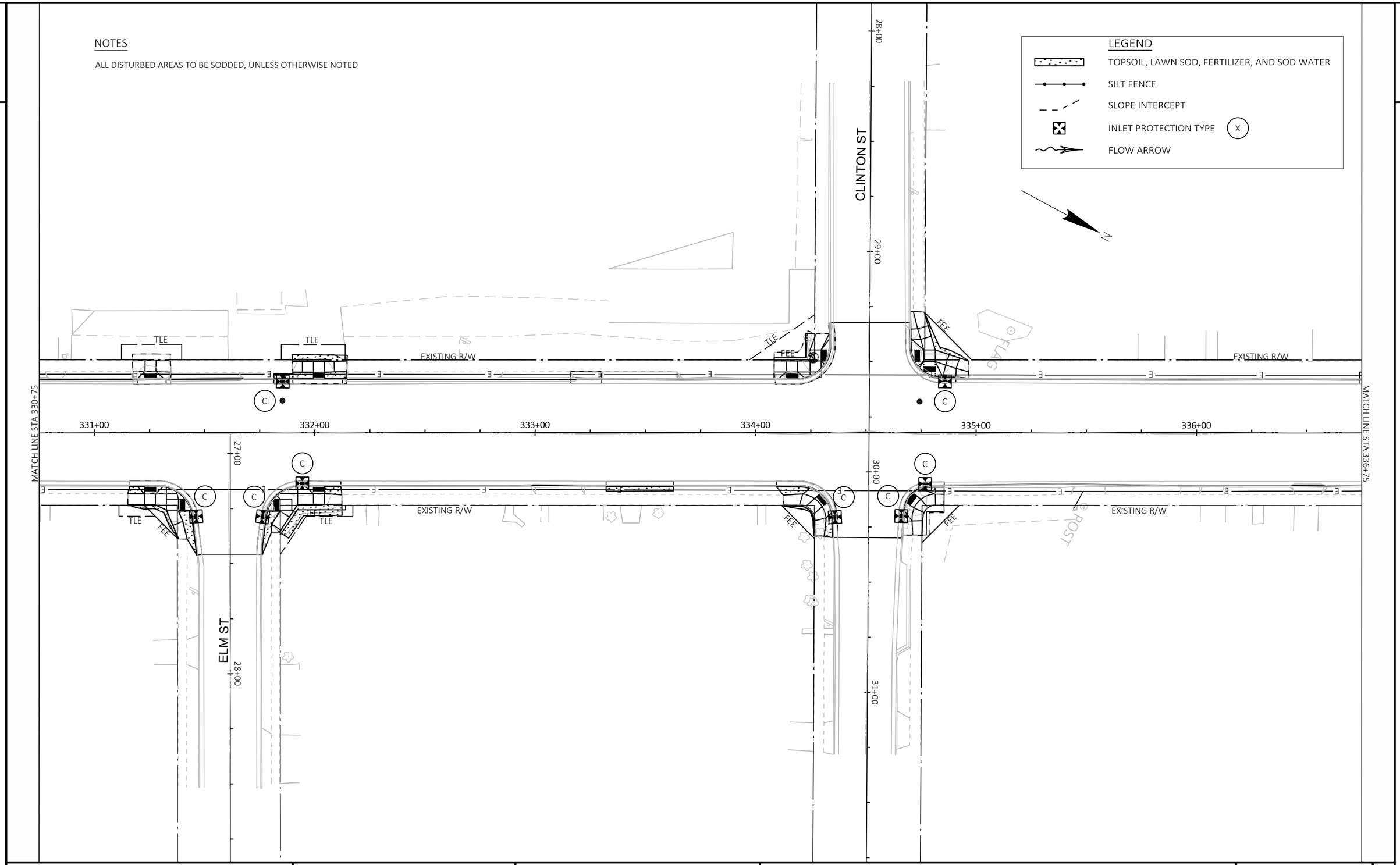
PLOT DATE : 10/27/2022 12:50 PM PLOT BY : PINTER, ANDREW D PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW



2

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 72	E

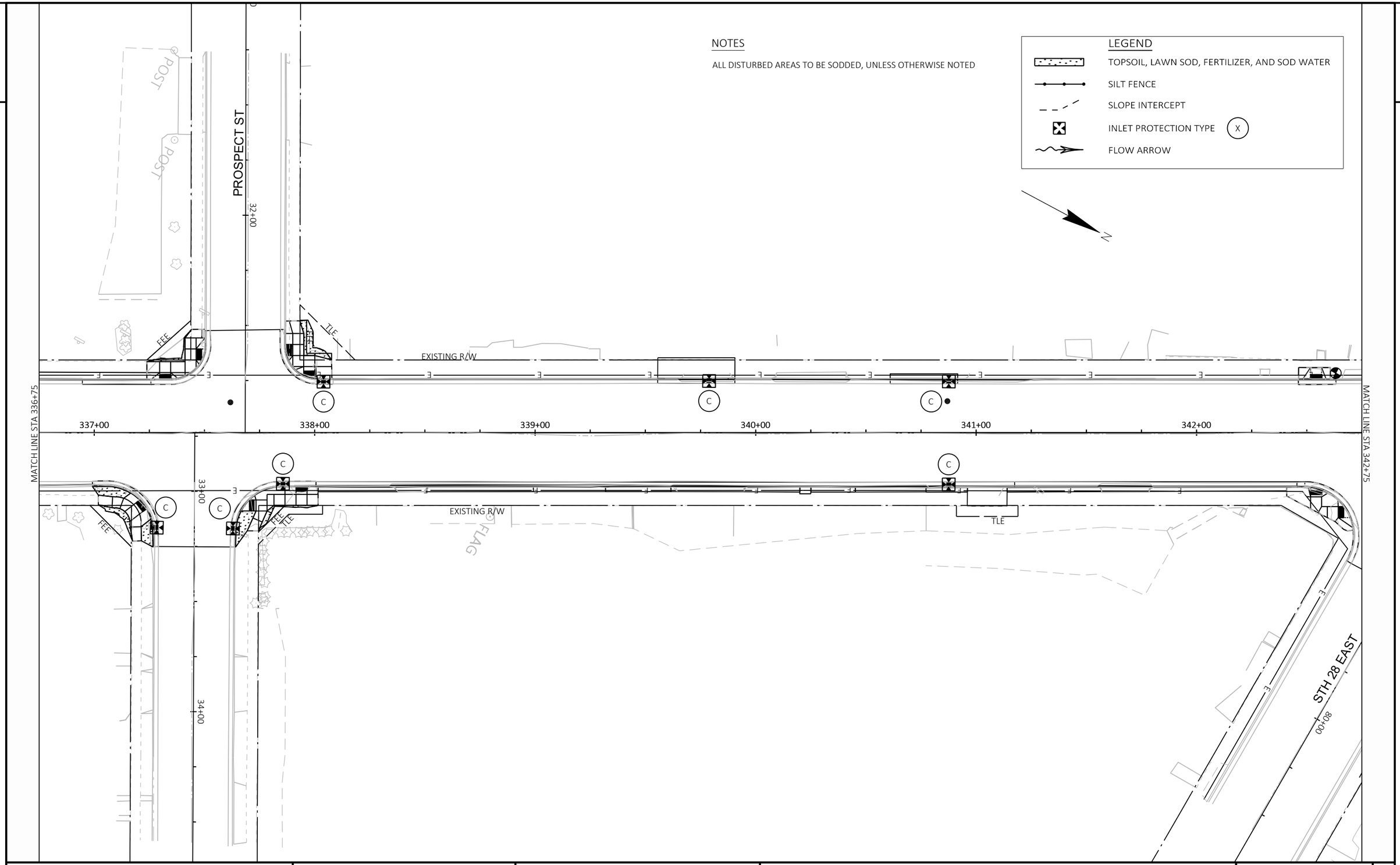
FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 04
PLOT DATE : 10/27/2022 12:51 PM
PLOT BY : PINTER, ANDREW D
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW

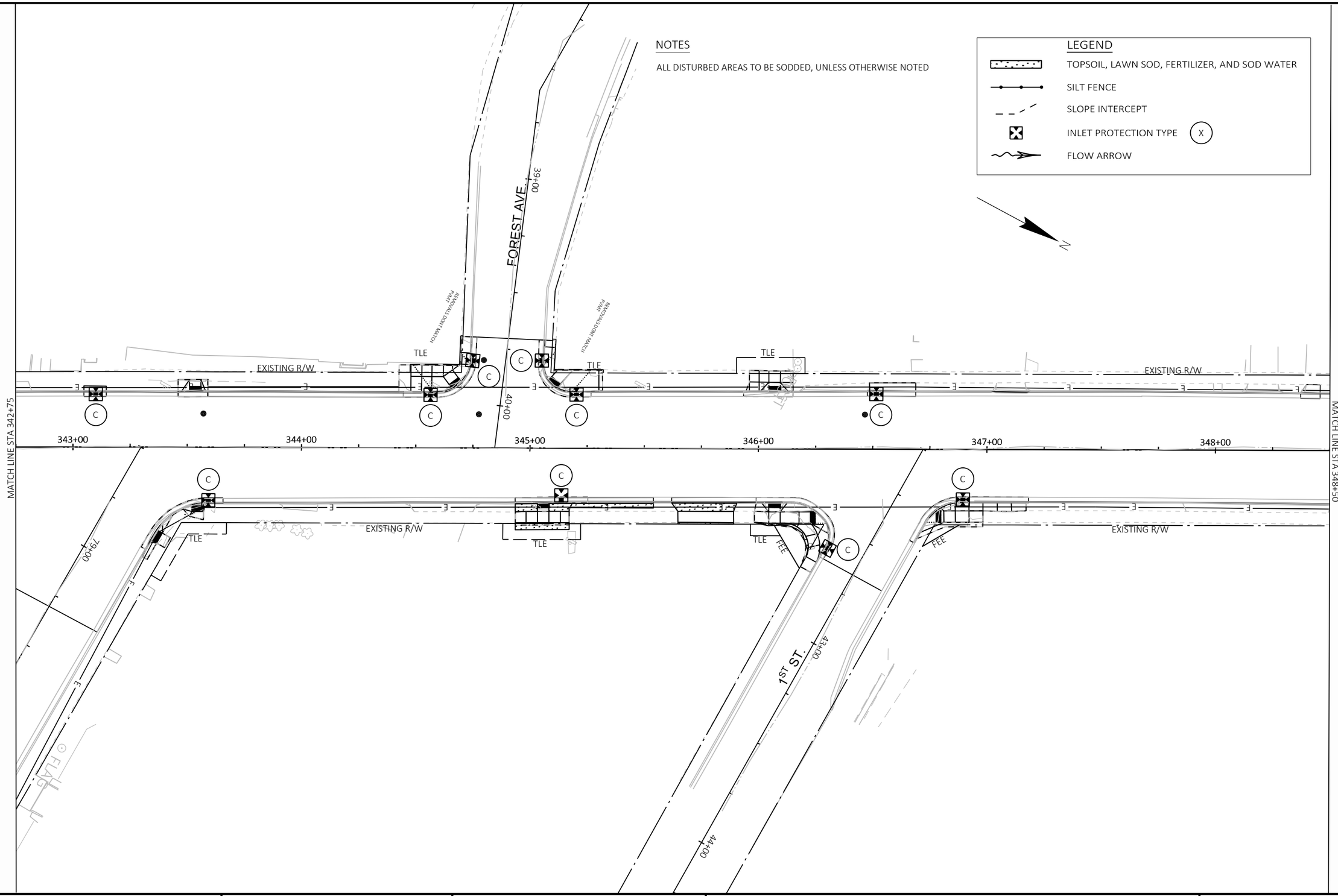


NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 74	E

2

2

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW

NORTH AVE.

48+00

47+00

TLE

FEE

EXISTING R/W

MATCH LINE STA 348+50

MATCH LINE STA 354+50

349+00

350+00

351+00

352+00

353+00

354+00

C

2ND ST.

44+00

47+00

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 75	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 07

PLOT DATE : 10/27/2022 12:51 PM PLOT BY : PINTER, ANDREW D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

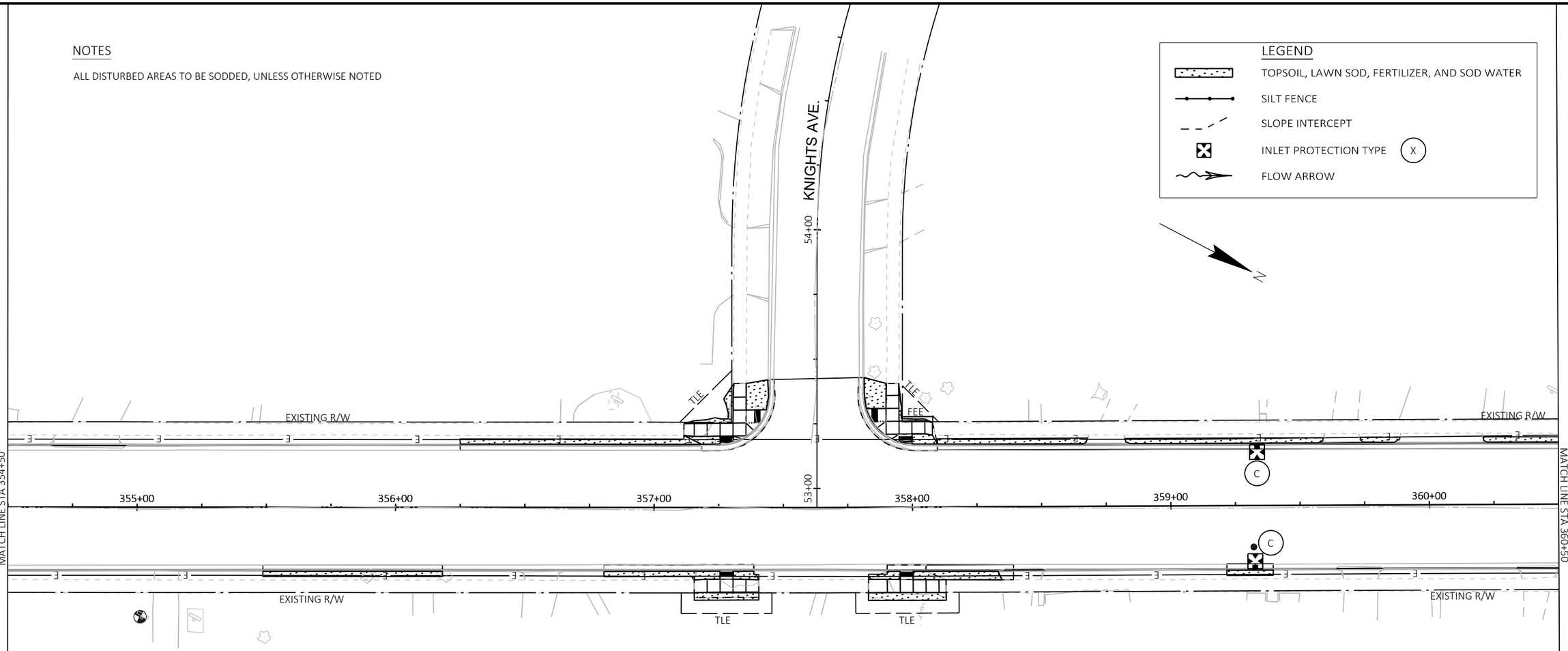
2

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW



2

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 76	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 08

PLOT DATE : 10/27/2022 12:51 PM PLOT BY : PINTER, ANDREW D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

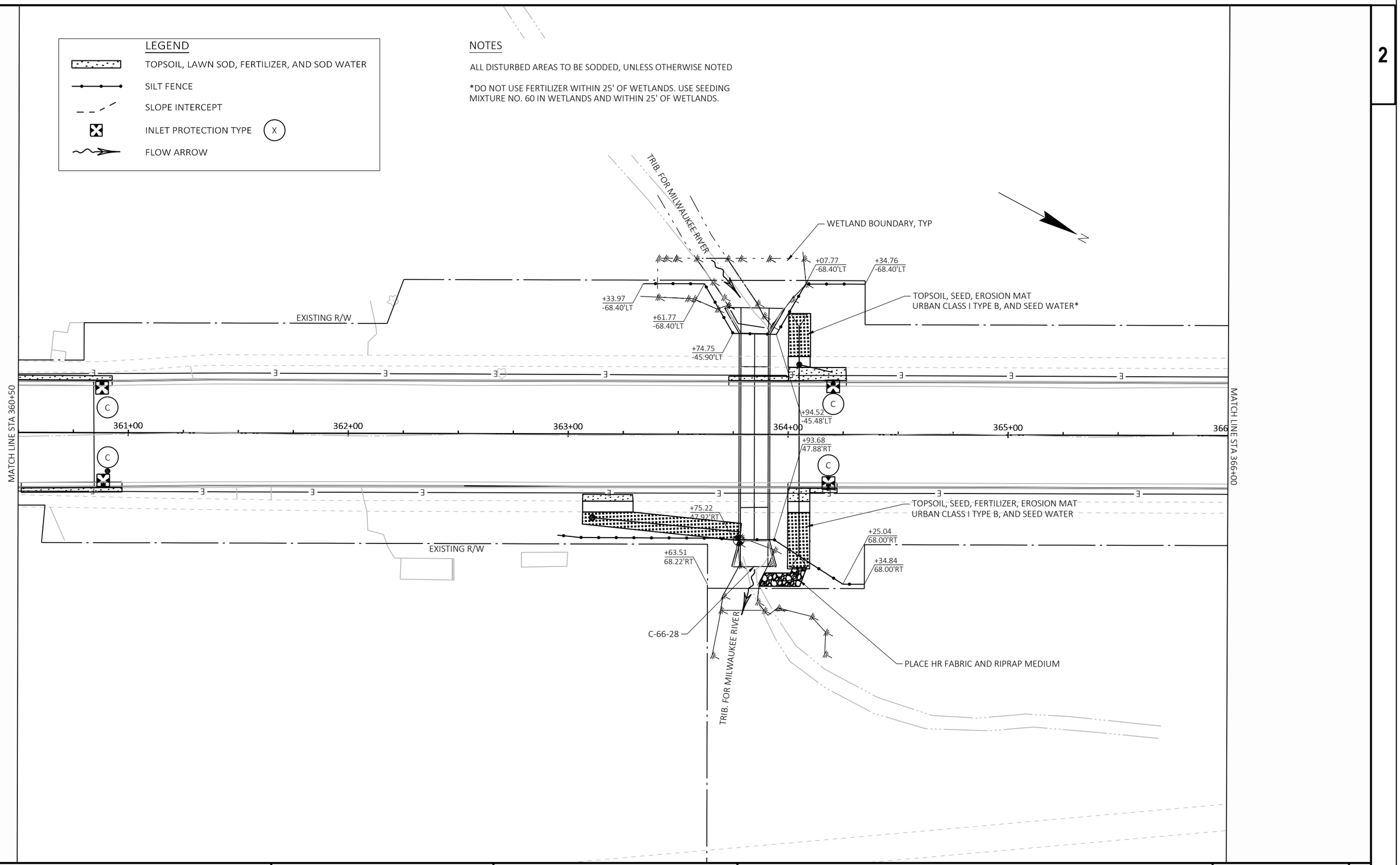
LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

*DO NOT USE FERTILIZER WITHIN 25' OF WETLANDS. USE SEEDING MIXTURE NO. 60 IN WETLANDS AND WITHIN 25' OF WETLANDS.



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 77	E

2

2

LEGEND

TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER

SILT FENCE

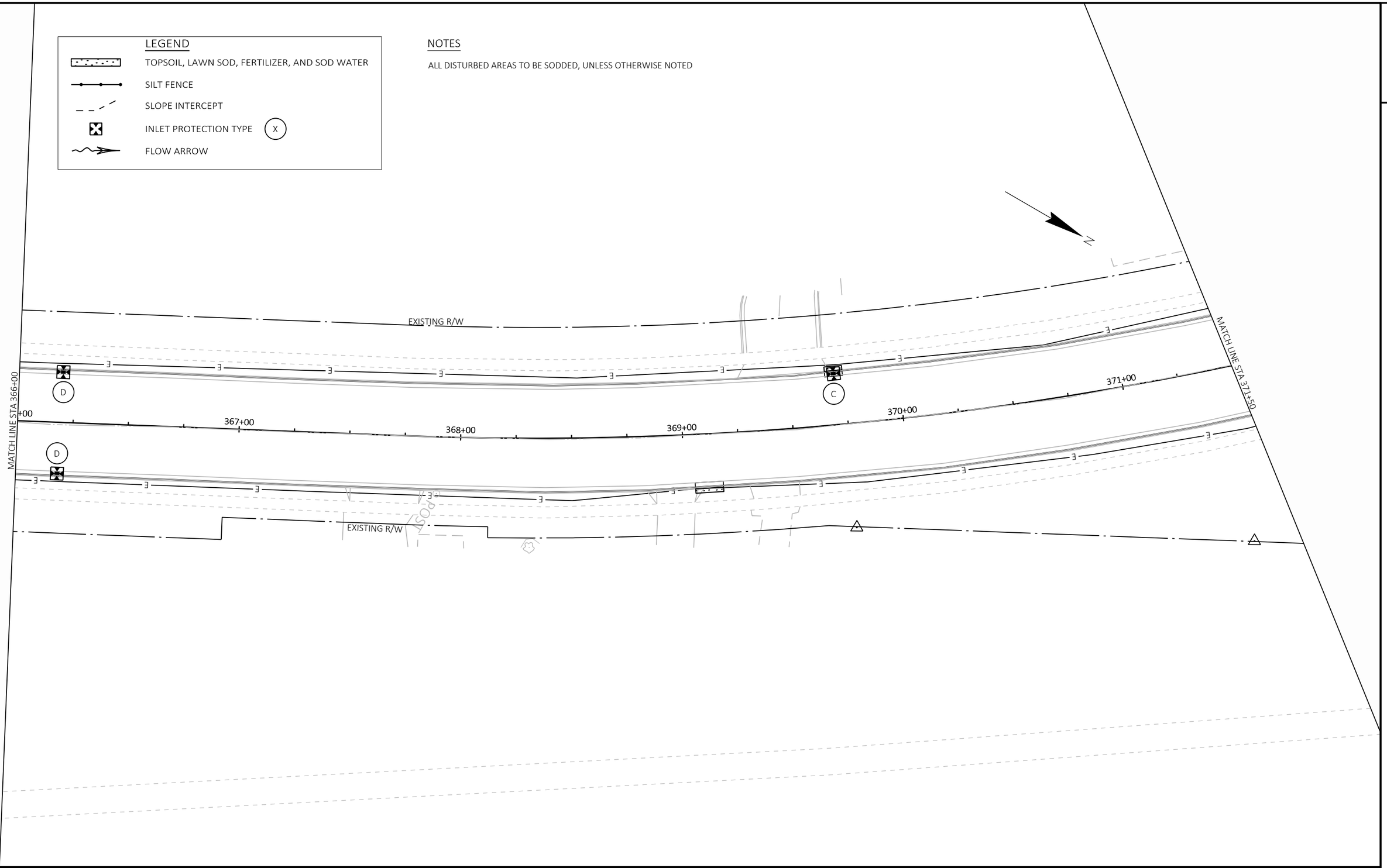
SLOPE INTERCEPT

INLET PROTECTION TYPE (X)

FLOW ARROW

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 78	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 10

PLOT DATE : 10/27/2022 12:51 PM PLOT BY : PINTER, ANDREW D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE (X)
- FLOW ARROW

NOTES

ALL DISTURBED AREAS TO BE SODDED, UNLESS OTHERWISE NOTED

N

MATCH LINE STA 371+50

EXISTING R/W

STH 28 WEST

69+00

70+00

71+00

372+00

373+00

374+00

375+00

376+00

377+00

C

A

+29.77
39.34'RT

+62.88
41.43'RT

+68.77
43.89'RT

+78.65
71.43'RT

OLD FOND DU LAC RD.

EXISTING R/W

EXISTING R/W

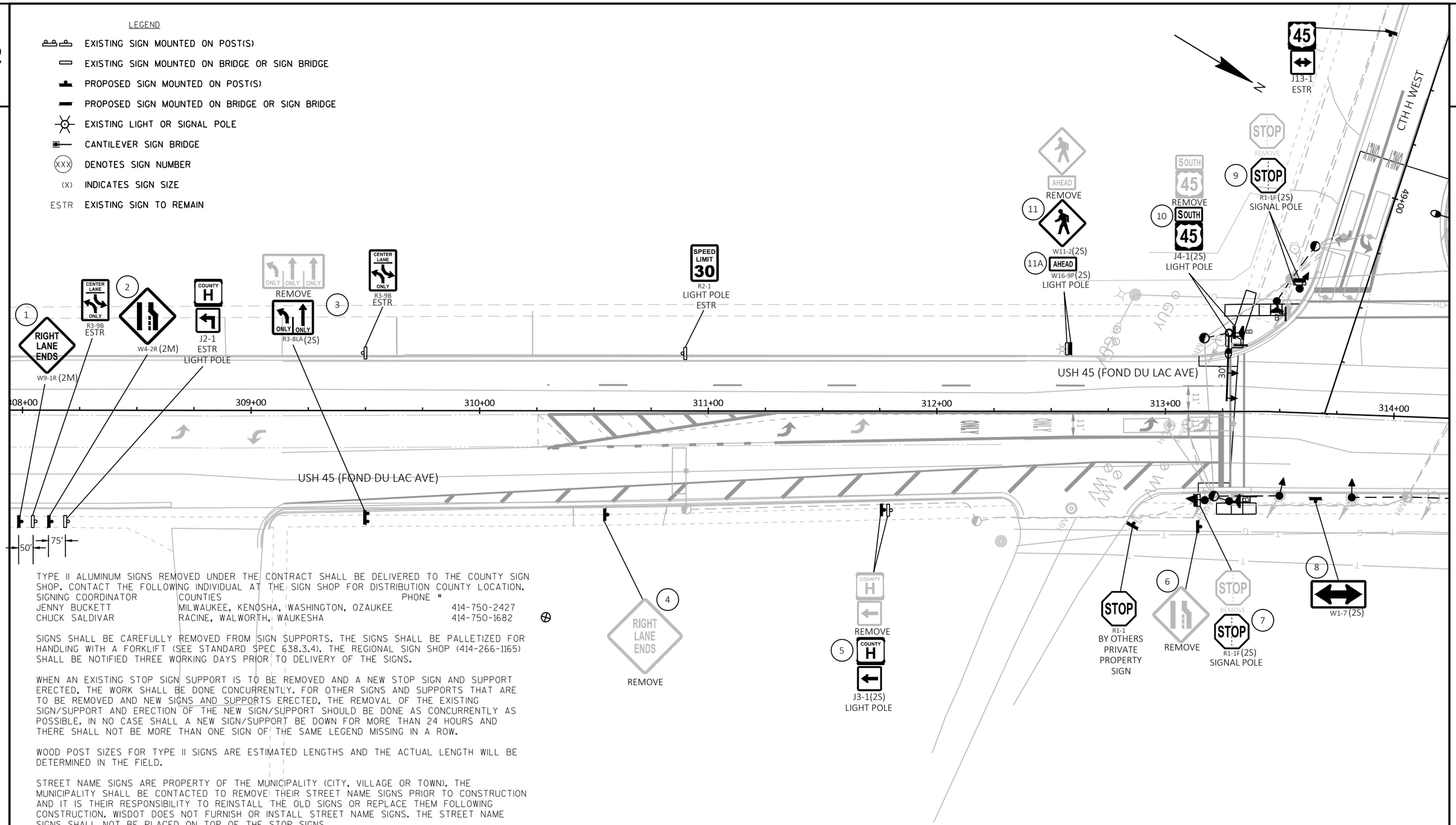
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 79	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 11

PLOT DATE : 10/27/2022 12:51 PM PLOT BY : PINTER, ANDREW D PLOT NAME : PLOT SCALE : 1 IN:40 FT

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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



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	COUNTIES	PHONE #
JENNY BUCKETT	MILWAUKEE, KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
CHUCK SALDIVAR	RACINE, 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 (414-266-1165) 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 SIGN POSTS IS INCIDENTAL TO THE POST

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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

CTH H WEST

SPEED LIMIT 30
R2-1
ESTR

STOP
REMOVE
18
STOP
R1-1F(2S)
SIGNAL POLE

ONLY ONLY ONLY
REMOVE
16
ONLY ONLY ONLY
R3-8AAR(2S)

COUNTY H
REMOVE
17
COUNTY H
J13-1(2S)
LIGHT POLE

JCT
COUNTY H
REMOVE
15
JCT
COUNTY H
J1-1(2S)
LIGHT POLE

USH 45 (FOND DU LAC AVE)

314+00 315+00 316+00 317+00 318+00 319+00 320+00

45'

12
LANE ENDS
MERGE
LEFT
REMOVE

NORTH
45
REMOVE
13
NORTH
45
J4-1(2S)

SPEED LIMIT 30
REMOVE
14
SPEED LIMIT 30
R2-1(2S)
LIGHT POLE

USH 45 (FOND DU LAC AVE)

SHEET 2 OF 12

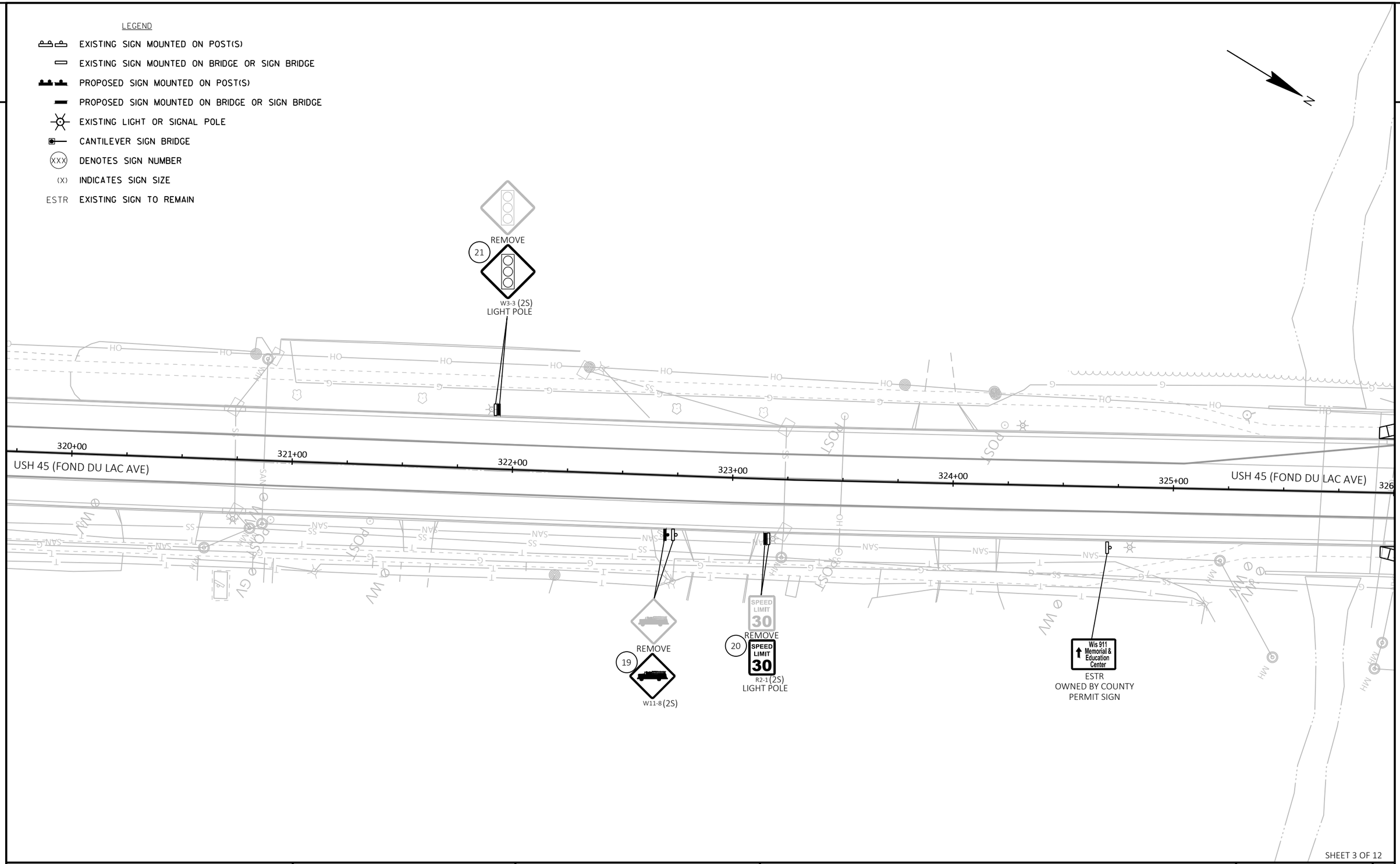
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 81	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 02
PLOT DATE : 10/27/2022 2:06 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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 3 OF 12

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 82	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 03

PLOT DATE : 11/15/2022 9:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

ROSELAND DR

20+00

21+00

STOP
REMOVE
STOP 24
R1-1 (2S)

SPEED LIMIT 30
REMOVE
25
SPEED LIMIT 30
R2-1 (2S)

STREET NAME SIGN TO BE MOVED BY OTHERS VILLAGE OWNED

REMOVE
23
W11-8 (2S)
LIGHT POLE

326+00 327+00 328+00 329+00 330+00 331+00

USH 45 (FOND DU LAC AVE)

USH 45 (FOND DU LAC AVE)

OFF ROAD SIGN (ESTR)

Lions Club Etc...
OFF ROAD SIGN (ESTR)

27+00

STREET NAME SIGN TO BE MOVED BY OTHERS VILLAGE OWNED

STOP
REMOVE
22
STOP
R1-1 (2S)

ELM ST

28+00

NOTE: STREET NAME SIGN (VILLAGE OWNED) SHALL NOT BE PLACED ON TOP OF WISDOT STOP SIGN

SHEET 4 OF 12

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 83	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 04

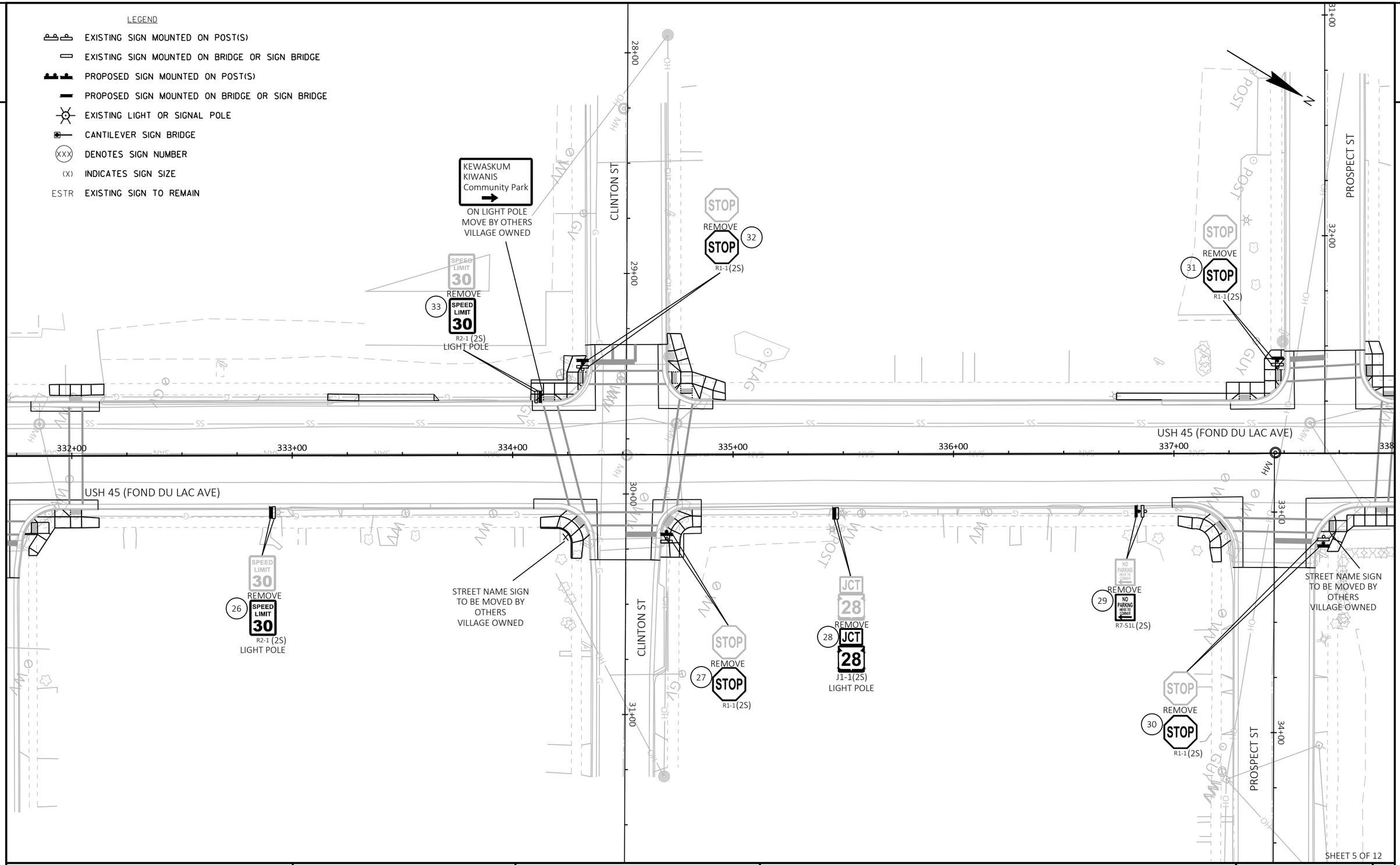
PLOT DATE : 11/15/2022 9:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 84	E

SHEET 5 OF 12

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 05

PLOT DATE : 11/15/2022 9:23 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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

PROSPECT ST

32+00

NORTH 45 REMOVE NORTH 45 (46)

SPEED LIMIT 30 REMOVE SPEED LIMIT 30 (47) R2-1

J4-1(2S) LIGHT POLE

45 LEFT TURN YIELD ON FLASHING YELLOW ARROW REMOVE

SOUTH 45 REMOVE (44) SOUTH 45

J3-1(2S) SIGNAL POLE UP HIGH

STREET NAME SIGN TO BE MOVED BY OTHERS VILLAGE OWNED

NO PARKING ANY TIME REMOVE (43) R7-1D(2S)

EAST 28 REMOVE STOP REMOVE (41) R1-1F(2S) SIGNAL POLE

(42) EAST 28

J3-1(2S) SIGNAL POLE UP HIGH

338+00 339+00 340+00 341+00 342+00 343+00

USH 45 (FOND DU LAC AVE)

USH 45 (FOND DU LAC AVE)

AHEAD REMOVE (34) S1-1(2S)

(34A) AHEAD S16-9P(2S)

(34B) FINES HIGHER R2-6P (2S)

LIGHT POLE

ONLY ONLY REMOVE (35) R3-8AR (2S)

EAST 28 REMOVE (36) EAST 28

J3-1(2S) SIGNAL POLE UP HIGH

STOP REMOVE (38) R1-1F (2S) SIGNAL POLE

EAST 28

NO PARKING ANY TIME R7-1R

LIGHT POLE ESTR

STH 28 EAST

80+00

WEST 28 REMOVE (37) WEST 28

J3-1(2S) SIGNAL POLE UP HIGH

STOP REMOVE (39) R1-1F (2S) SIGNAL POLE

WEST 28 REMOVE (40) WEST 28

J3-1(2S) SIGNAL POLE UP HIGH

SOUTH 45 NORTH 45

J3-2 LIGHT POLE ESTR

SHEET 6 OF 12

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 85	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 06

PLOT DATE : 11/15/2022 9:23 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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

FOREST AVE

39+00

40+00

REMOVE
54
ONLY ONLY
R3-8LA(2S)

REMOVE
53
DO NOT BLOCK INTERSECTION
R10-7(2S)

REMOVE
52
NO PARKING ANY TIME
R7-1L(2S)

CITY SIGN ESTR
EAST 28
REMOVE
51
EAST 28
J2-1(2S)
LIGHT POLE

Wis 911 Memorial
ESTR
OWNED BY COUNTY
PERMIT SIGN
REMOVE
50
W3-3(2S)
LIGHT POLE

344+00 345+00 346+00 347+00 348+00 349+00

USH 45 (FOND DU LAC AVE)

USH 45 (FOND DU LAC AVE)

Wis 911 Memorial & Education Center
ESTR
OWNED BY COUNTY
PERMIT SIGN

NO PARKING ANY TIME
TO BE MOVED BY
OTHERS
VILLAGE OWNED

NORTH 45 WEST 28
REMOVE
48
NORTH 45 WEST 28
JV4-1(2S)
LIGHT POLE

1ST ST

43+00

44+00

STREET NAME SIGN
TO BE MOVED BY
OTHERS
VILLAGE OWNED

STOP
REMOVE
49
STOP
R1-1(2S)

NOTE: STREET NAME SIGN
(VILLAGE OWNED)
SHALL NOT BE
PLACED ON TOP
OF WISDOT STOP SIGN

KEWASKUM
ELEMENTARY SCHOOL
CAREER ACADEMY
MUNICIPAL BUILDING
ST LUCAS
ON LIGHT POLE
VILLAGE OWNED
ESTR

2ND ST

44+00

47+00

SHEET 7 OF 12

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 86	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 07

PLOT DATE : 11/15/2022 9:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTE: STREET NAME SIGN (VILLAGE OWNED) SHALL NOT BE PLACED ON TOP OF WISDOT STOP SIGN

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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

STREET NAME SIGN TO BE MOVED BY OTHERS VILLAGE OWNED

REMOVE
63 STOP R1-1 (2S)

62 S1-1 (2S)
62A RRFB W16-7R (2S)
FACING SOUTH BACK TO BACK WITH #61

REMOVE
61 S1-1 (2S)
61A RRFB W16-7L (2S)

WOOD POST REMOVE

48+00
47+00
NORTH AVE

REMOVE
60 SPEED LIMIT 30 R2-1 (2S)
LIGHT POLE

350+00
351+00
352+00
353+00
354+00
355+00
USH 45 (FOND DU LAC AVE)

44+00
2ND ST

REMOVE
55 STOP R1-1 (2S)

STREET NAME SIGN TO BE MOVED BY OTHERS VILLAGE OWNED

57 S1-1 (2S)
57A RRFB W16-7R (2S)
FACING NORTH BACK TO BACK WITH #56

REMOVE
56 S1-1 (2S)
56A RRFB W16-7L (2S)

REMOVE
58 SPEED LIMIT 30 R2-1 (2S)
LIGHT POLE

59 PEDESTRIAN SIDEWALK
REMOVE

SHEET 8 OF 12

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 87	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 08
PLOT DATE : 11/15/2022 9:23 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

NOTE: STREET NAME SIGN (VILLAGE OWNED) SHALL NOT BE PLACED ON TOP OF WISDOT STOP SIGN

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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

AHEAD
REMOVE
64 S1-1 (2S)
64A AHEAD W16-9P (2S)
64B FINES HIGHER R2-6P (2S)
LIGHT POLE

STREET NAME SIGN TO BE MOVED BY OTHERS VILLAGE OWNED

STOP
REMOVE
65 STOP R1-1 (2S)

KNIGHTS AVE

54+00

53+00

SPEED LIMIT 30
REMOVE
67 SPEED LIMIT 30 R2-1 (2S)
LIGHT POLE

356+00 357+00 358+00 359+00 360+00 361+00

USH 45 (FOND DU LAC AVE)

USH 45 (FOND DU LAC AVE)

SPEED LIMIT 30
REMOVE
66 SPEED LIMIT 30 R2-1 (2S)

2

SHEET 9 OF 12

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 88	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 09

PLOT DATE : 11/15/2022 9:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

HEAVY TRUCK ROUTE
HWY 45
HWY 28
CTY RD H
CTY RD S

LIGHT POLE
ESTR
VILLAGE OWNED

362+00 363+00 364+00 365+00 366+00 367+00

USH 45 (FOND DU LAC AVE)

USH 45 (FOND DU LAC AVE)

SPEED LIMIT 30
REMOVE

68 SPEED LIMIT 30
R2-1(2S)

LIGHT POLE

SHEET 10 OF 12

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 89	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 10

PLOT DATE : 11/15/2022 9:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO PARKING ON VILLAGE STREETS 2AM-6AM DEC 1-APRIL 1
ESTR
OWNED BY VILLAGE

LUTHERAN CHURCH

75
REMOVE
SPEED LIMIT 30

74
SPEED LIMIT 30
R2-1 (2S)
LIGHT POLE

SOUTH 45 EAST 28
REMOVE

73
SOUTH 45 EAST 28
J4-2(2S)
LIGHT POLE

72
REMOVE
SPEED LIMIT 40
SPEED LIMIT 40
R2-1 (2S)
LIGHT POLE

USH 45 (FOND DU LAC AVE)
368+00
369+00
370+00
371+00
372+00
373+00

69
REMOVE
SPEED LIMIT 40
SPEED LIMIT 40
R2-1 (2S)
LIGHT POLE

OLD FOND DU LAC RD
69+00

71
REMOVE
STOP
STOP
R1-1 (2S)

STREET NAME SIGN TO BE MOVED BY OTHERS
VILLAGE OWNED

70
REMOVE
WEST 28
WEST 28
J2-1(2S)
LIGHT POLE

NOTE: STREET NAME SIGN (VILLAGE OWNED) SHALL NOT BE PLACED ON TOP OF WISDOT STOP SIGN

SHEET 11 OF 12

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 90	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 11
PLOT DATE : 11/15/2022 9:23 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
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

NORTH 45 | SOUTH 45 | EAST 28
J3-3
ESTR

STH 28 WEST

00+69

STOP
TRAFFIC ON 45 DOES NOT STOP
REMOVE
81 82 STOP R1-1(3)
81A 82A TRAFFIC ON 45 DOES NOT STOP W4-4C(3)

70+00

WEST 28
REMOVE
80 WEST 28
J3-1(2S)

STREET NAME SIGN
TO BE MOVED BY
OTHERS
VILLAGE OWNED

71+00

374+00 375+00 376+00 377+00 378+00 379+00

USH 45 (FOND DU LAC AVE)

USH 45 (FOND DU LAC AVE)

NORTH 45
REMOVE
76 NORTH 45
J3-1(2S)
LIGHT POLE

REMOVE
78
W1-7

WEST 28
REMOVE
77 WEST 28
J3-1(2S)
LIGHT POLE

SPEED LIMIT 40
REMOVE
79 SPEED LIMIT 40 R2-1(2S)
LIGHT POLE

OLD FOND DU LAC RD

70+00

SHEET 12 OF 12

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 91	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIGN\023201_PS_20.DWG
LAYOUT NAME - 12

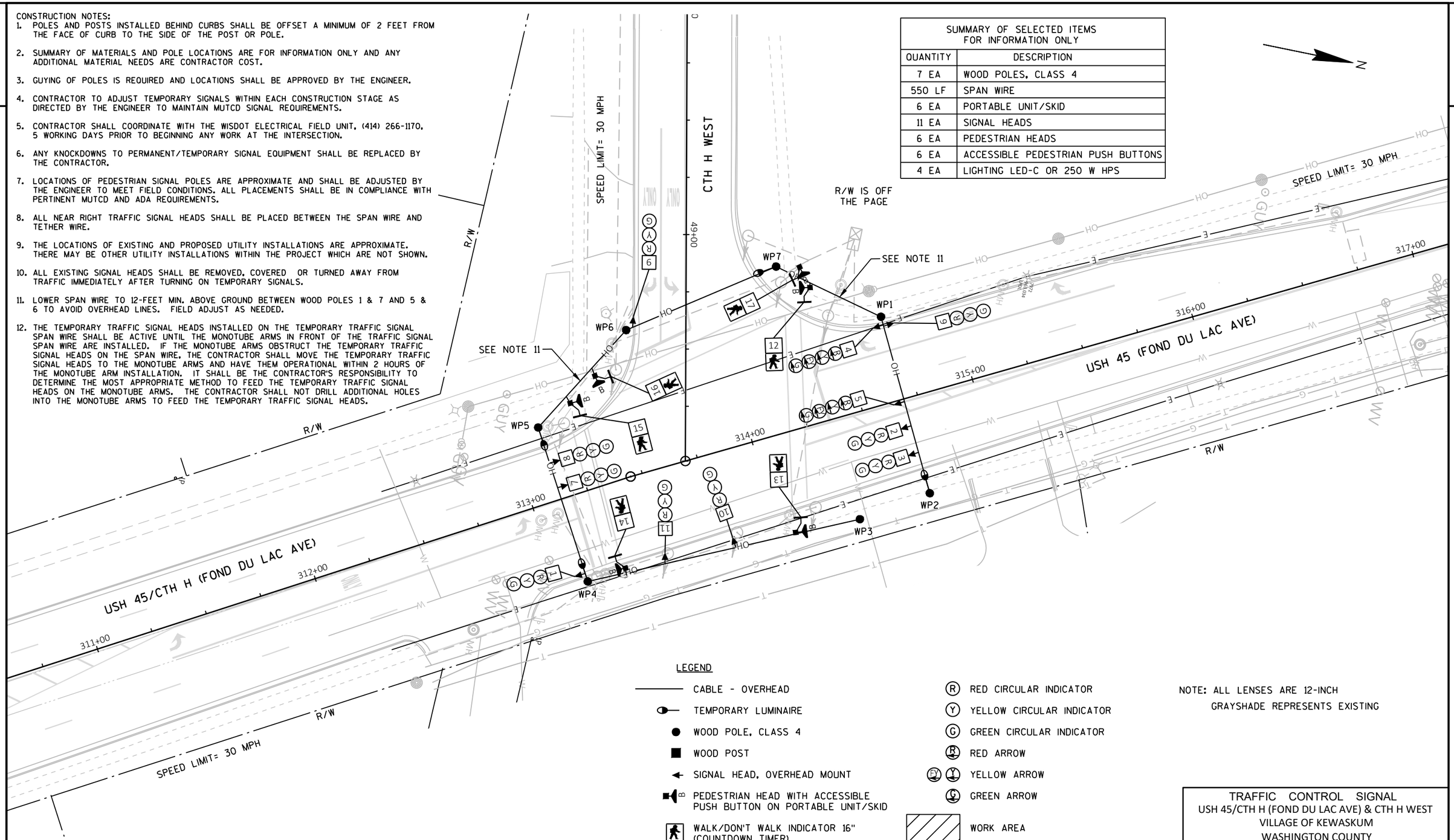
PLOT DATE : 11/15/2022 9:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

CONSTRUCTION NOTES:

1. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
2. SUMMARY OF MATERIALS AND POLE LOCATIONS ARE FOR INFORMATION ONLY AND ANY ADDITIONAL MATERIAL NEEDS ARE CONTRACTOR COST.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY 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 BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. LOCATIONS OF PEDESTRIAN SIGNAL POLES ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE ENGINEER TO MEET FIELD CONDITIONS. ALL PLACEMENTS SHALL BE IN COMPLIANCE WITH PERTINENT MUTCD AND ADA REQUIREMENTS.
8. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
9. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
10. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
11. LOWER SPAN WIRE TO 12-FEET MIN. ABOVE GROUND BETWEEN WOOD POLES 1 & 7 AND 5 & 6 TO AVOID OVERHEAD LINES. FIELD ADJUST AS NEEDED.
12. THE TEMPORARY TRAFFIC SIGNAL HEADS INSTALLED ON THE TEMPORARY TRAFFIC SIGNAL SPAN WIRE SHALL BE ACTIVE UNTIL THE MONOTUBE ARMS IN FRONT OF THE TRAFFIC SIGNAL SPAN WIRE ARE INSTALLED. IF THE MONOTUBE ARMS OBSTRUCT THE TEMPORARY TRAFFIC SIGNAL HEADS ON THE SPAN WIRE, THE CONTRACTOR SHALL MOVE THE TEMPORARY TRAFFIC SIGNAL HEADS TO THE MONOTUBE ARMS AND HAVE THEM OPERATIONAL WITHIN 2 HOURS OF THE MONOTUBE ARM INSTALLATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOST APPROPRIATE METHOD TO FEED THE TEMPORARY TRAFFIC SIGNAL HEADS ON THE MONOTUBE ARMS. THE CONTRACTOR SHALL NOT DRILL ADDITIONAL HOLES INTO THE MONOTUBE ARMS TO FEED THE TEMPORARY TRAFFIC SIGNAL HEADS.

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
7 EA	WOOD POLES, CLASS 4
550 LF	SPAN WIRE
6 EA	PORTABLE UNIT/SKID
11 EA	SIGNAL HEADS
6 EA	PEDESTRIAN HEADS
6 EA	ACCESSIBLE PEDESTRIAN PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250 W HPS



LEGEND

- CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- WOOD POLE, CLASS 4
- WOOD POST
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH ACCESSIBLE PUSH BUTTON ON PORTABLE UNIT/SKID
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY) (Y) YELLOW ARROW
- (G) GREEN ARROW
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

SIGNAL NO. T66-0557

REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 4

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION	SHEET 92	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0557\S66-0557_TS_PRECON_OPT4.DWG
LAYOUT NAME - S66-0557_ts_SPrecon_pg1

PLOT DATE : 7/17/2023 11:39 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

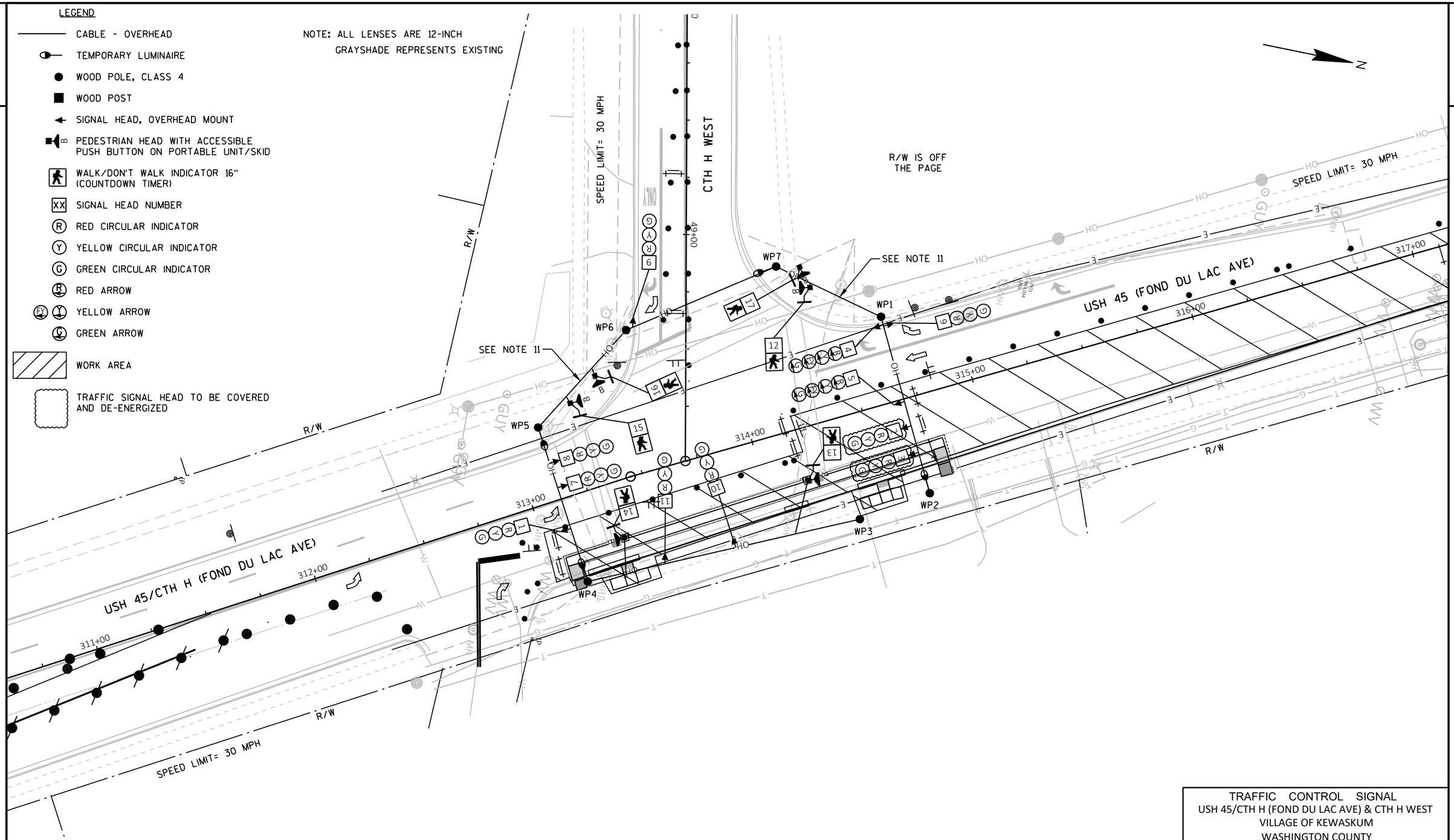
WISDOT/CADDS SHEET 42

2

LEGEND

- CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- WOOD POLE, CLASS 4
- WOOD POST
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH ACCESSIBLE PUSH BUTTON ON PORTABLE UNIT/SKID
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

SIGNAL NO. T66-0557

REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 4

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 93	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0557\S66-0557_TS_S1A.DWG
LAYOUT NAME - S66-0557_ts_S1A_pg1

PLOT DATE : 7/17/2023 11:39 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

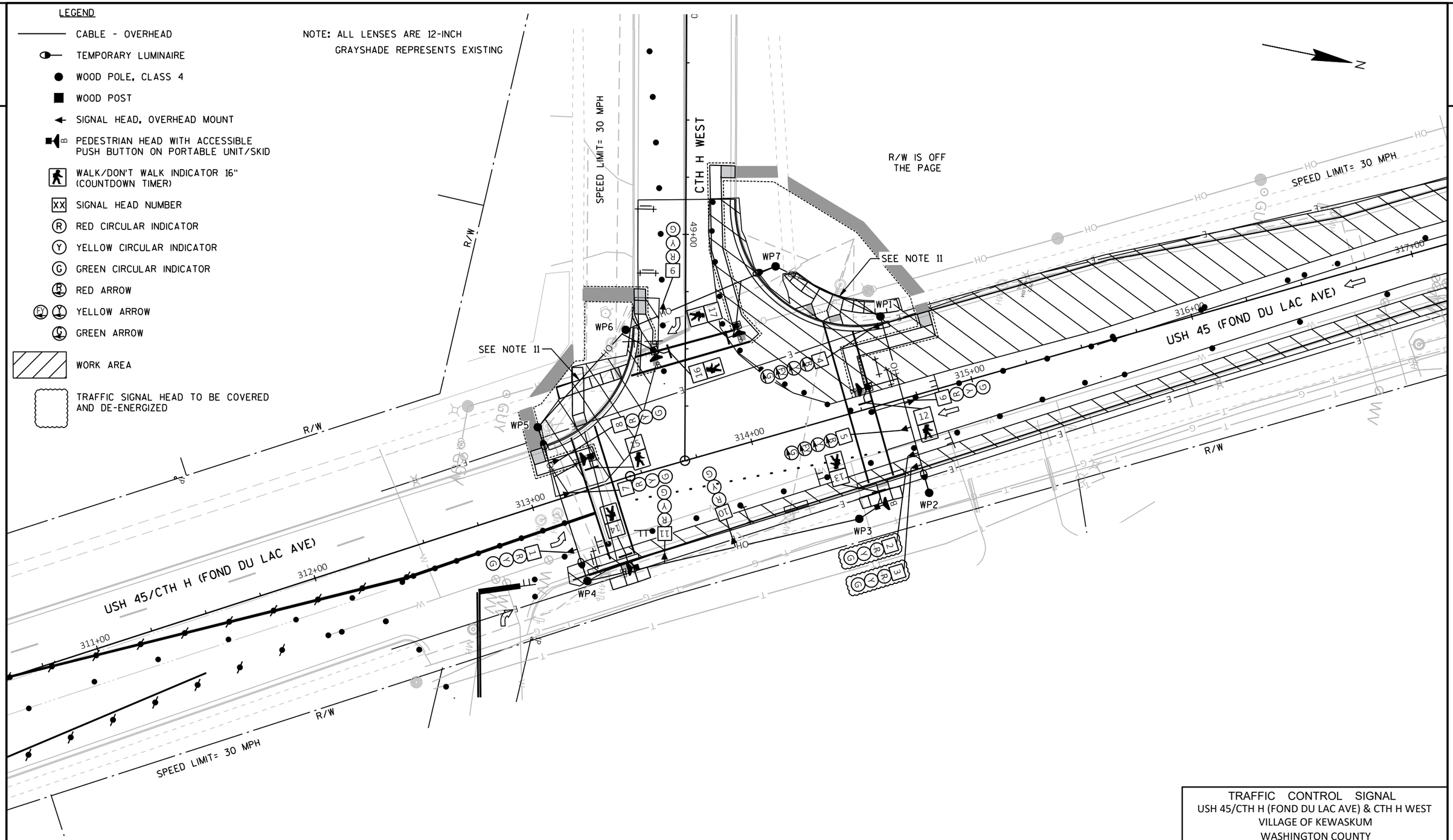
WISDOT/CADDS SHEET 42

2

LEGEND

- CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- WOOD POLE, CLASS 4
- WOOD POST
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH ACCESSIBLE PUSH BUTTON ON PORTABLE UNIT/SKID
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

SIGNAL NO. T66-0557

REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 4

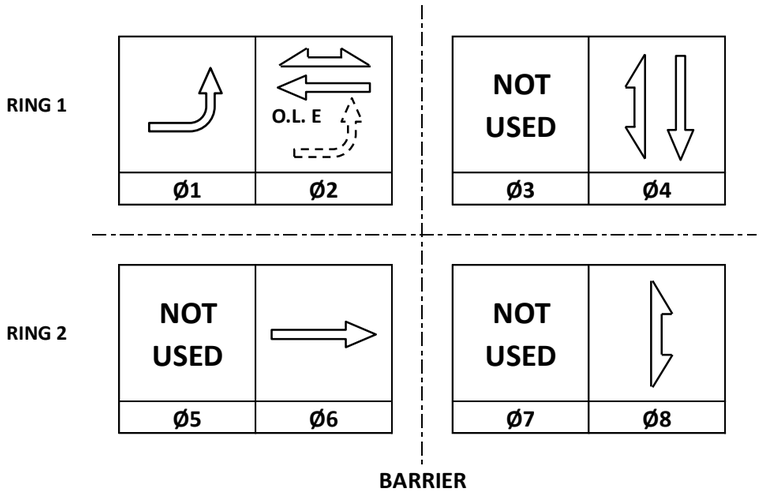
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 94	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0557\S66-0557_TS_S1B.DWG
LAYOUT NAME - S66-0557_ts_S1B_pg1

PLOT DATE : 7/17/2023 11:39 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3		
Ø4	9,10,11	R
Ø5		
Ø6	1,2,3	R
Ø7		
Ø8		
Ø2P	16,17	
Ø4P	14,15	
Ø6P		
Ø8P	12,13	
OLE	4,5	-
OLF		
OLG		
OLH		





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6	MAX	X
2		6	MAX	X
3				
4		8	MAX	X
5				
6		2	MAX	X
7				
8		4		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	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

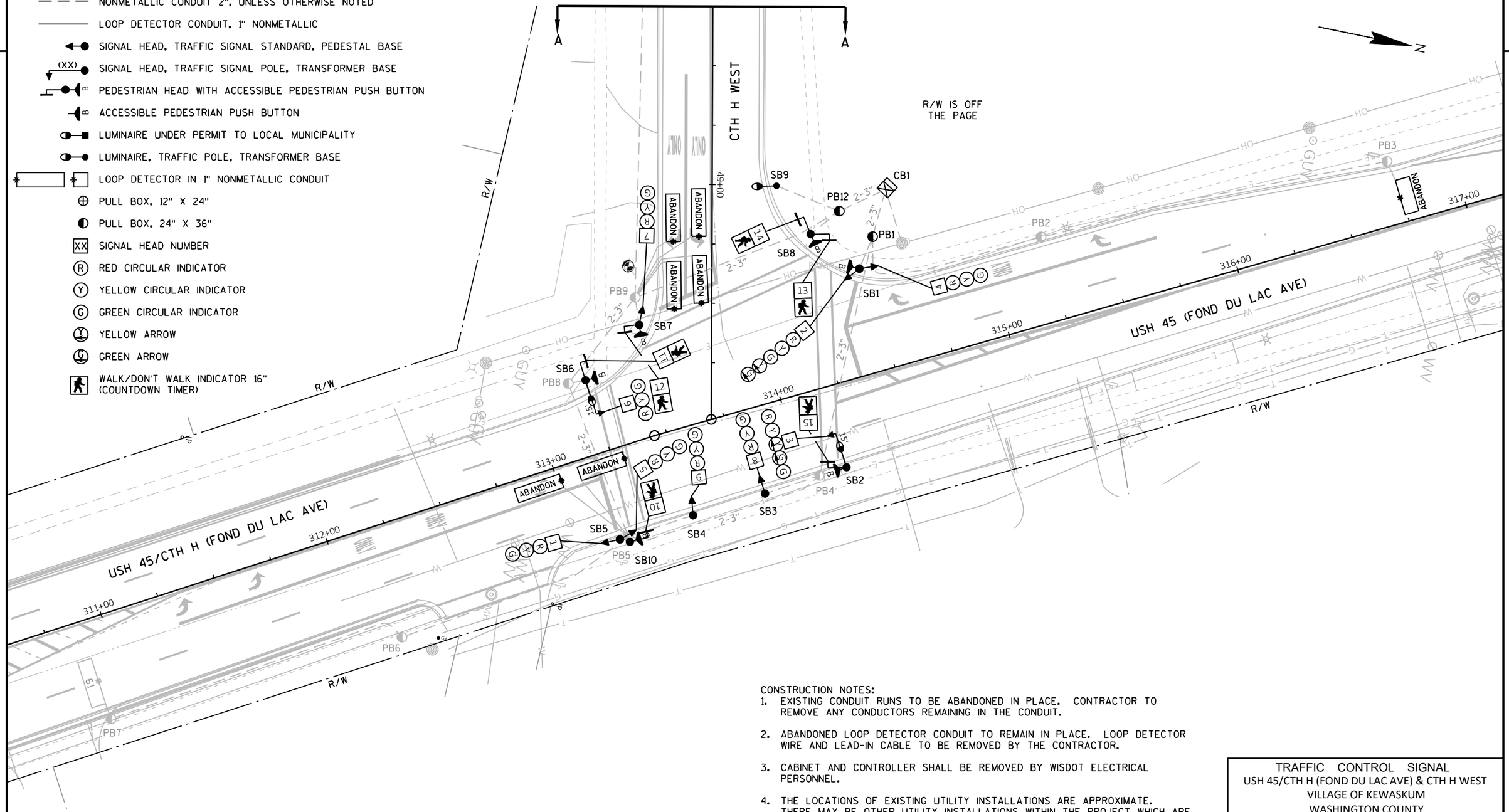
SIGNAL NO: T66-0557 CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP
DATE: 7/23 PAGE NUMBER: 4 OF 4

2

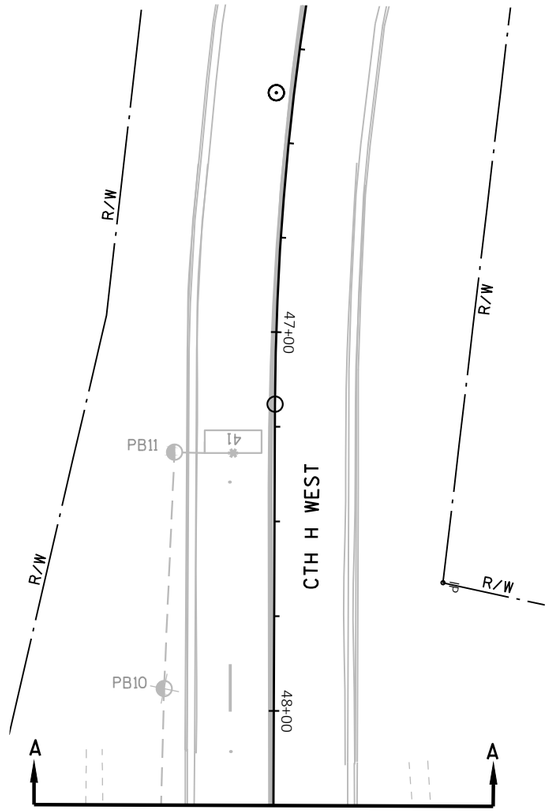
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH ACCESSIBLE PEDESTRIAN PUSH BUTTON
- ACCESSIBLE PEDESTRIAN PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)


A
A
CTH H WEST
ONLY
ONLY
R/W IS OFF THE PAGE
N
R/W
R/W
R/W
R/W
USH 45 (FOND DU LAC AVE)
USH 45/CTH H (FOND DU LAC AVE)
49+00
317+00
316+00
315+00
314+00
313+00
312+00
311+00
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
SB1
SB2
SB3
SB4
SB5
SB6
SB7
SB8
SB9
SB10
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB12
CB1
2-3"
2-3"
2-3"
2-3"
2-3"
15'
15'
15'
15'
HO
HO
HO

2



TRAFFIC CONTROL SIGNAL
USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

SIGNAL NO. S66-0557

REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 97	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0557\S66-0557_REM_2018.DWG
LAYOUT NAME - S66-0557_rem_pg2

PLOT DATE : 8/1/2022 7:41 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

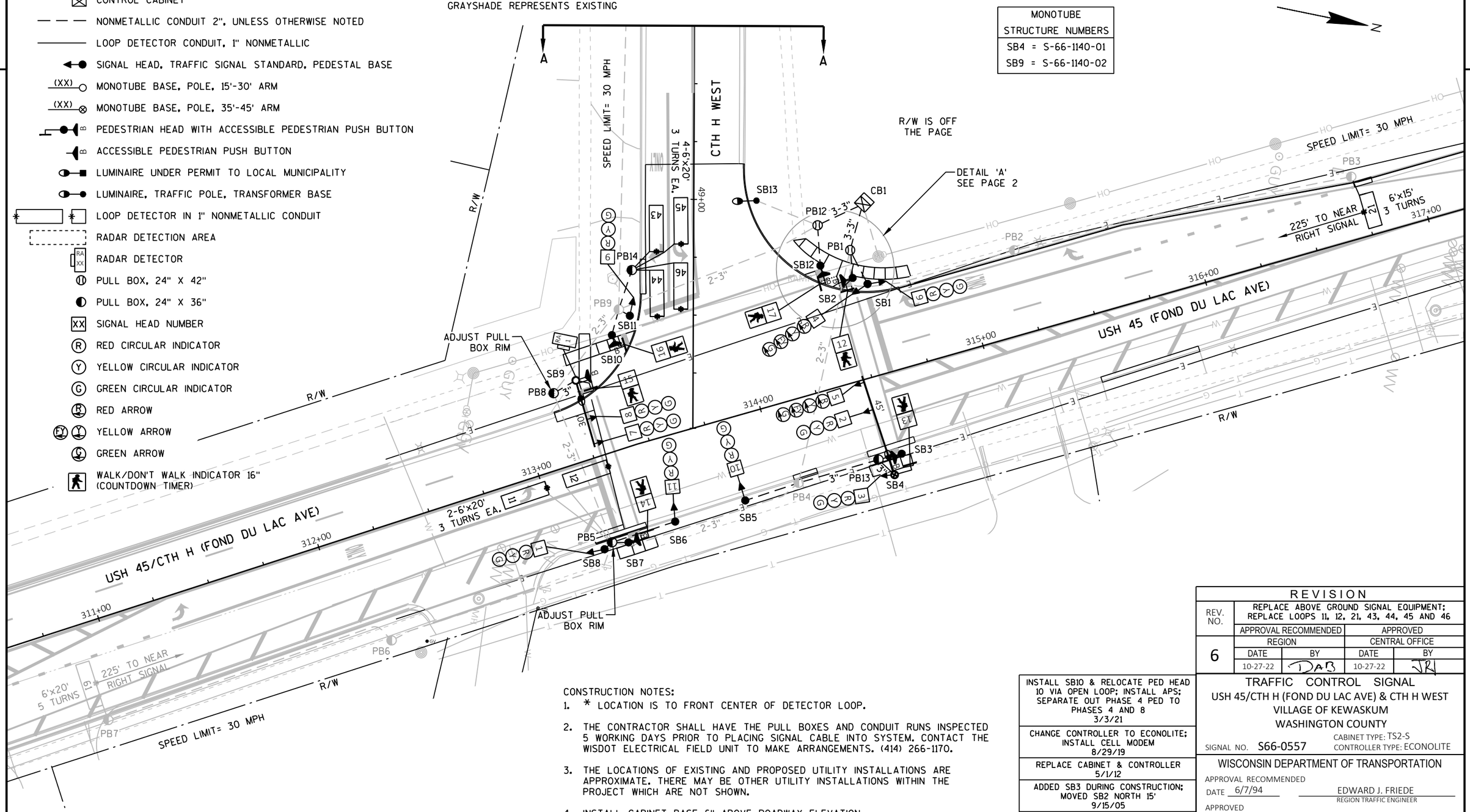
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH ACCESSIBLE PEDESTRIAN PUSH BUTTON
- ACCESSIBLE PEDESTRIAN PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- RADAR DETECTOR
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS
SB4 = S-66-1140-01
SB9 = S-66-1140-02



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. ANY CASINGS ARE INCIDENTAL TO THE CONCRETE SIGNAL BASE ITEMS.

INSTALL SB10 & RELOCATE PED HEAD 10 VIA OPEN LOOP; INSTALL APS; SEPARATE OUT PHASE 4 PED TO PHASES 4 AND 8 3/3/21
CHANGE CONTROLLER TO ECONOLITE; INSTALL CELL MODEM 8/29/19
REPLACE CABINET & CONTROLLER 5/1/12
ADDED SB3 DURING CONSTRUCTION; MOVED SB2 NORTH 15' 9/15/05
INSTALL NEW GEOMETRICS; INSTALL NEW PED. HEADS 8/12/02
INITIAL INSTALL 1994

REVISION				
REV. NO.	REPLACE ABOVE GROUND SIGNAL EQUIPMENT; REPLACE LOOPS 11, 12, 21, 43, 44, 45 AND 46			
	APPROVAL RECOMMENDED		APPROVED	
6	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	10-27-22	DAB	10-27-22	JR

TRAFFIC CONTROL SIGNAL
USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

SIGNAL NO. S66-0557
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/7/94 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

APPROVED
DATE 6/8/94 — R. I. MOE, STATE TRAFFIC ENGINEER

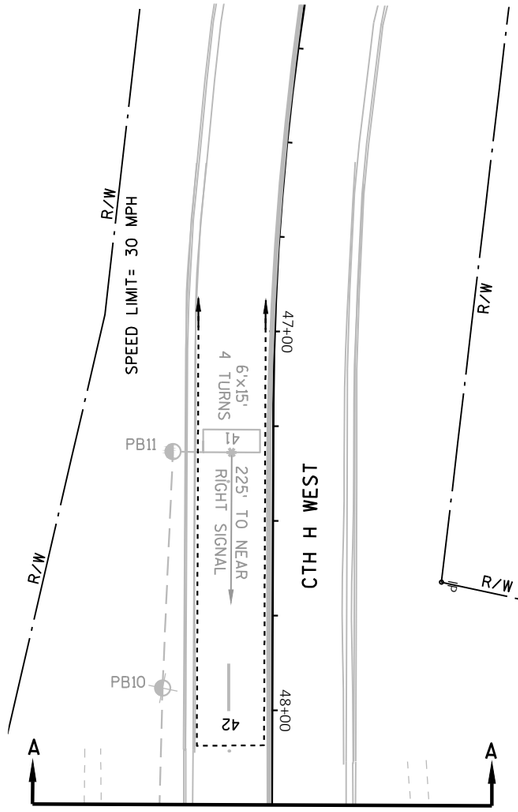
REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

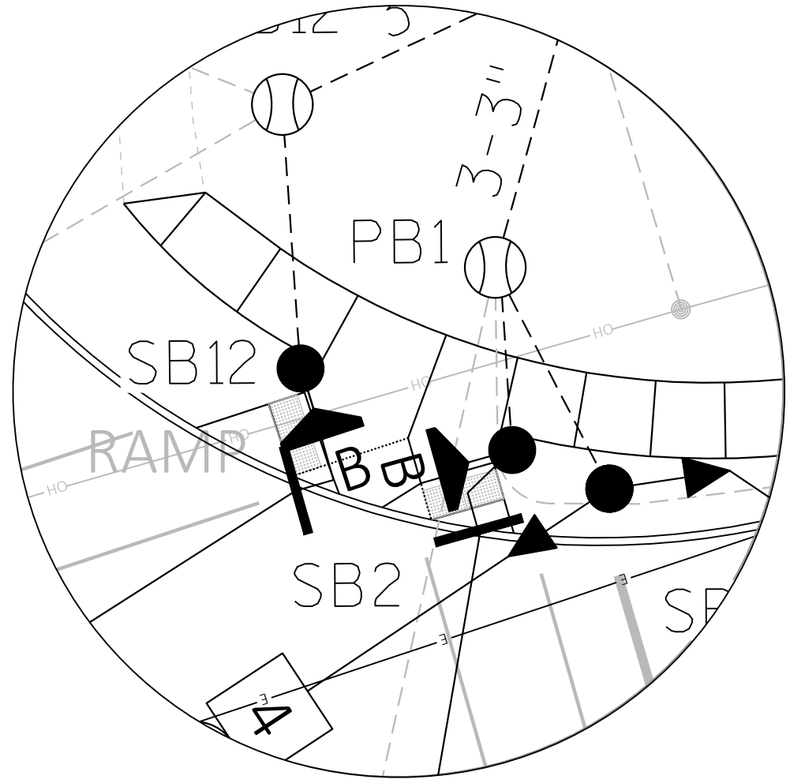
10-27-22 JPB

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 98	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0557\S66-0557_R6_2018.DWG
LAYOUT NAME - S66-0557_R6_pg1
PLOT DATE : 10/28/2022 6:27 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2





DETAIL A

TRAFFIC CONTROL SIGNAL
USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

SIGNAL NO. S66-0557

REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

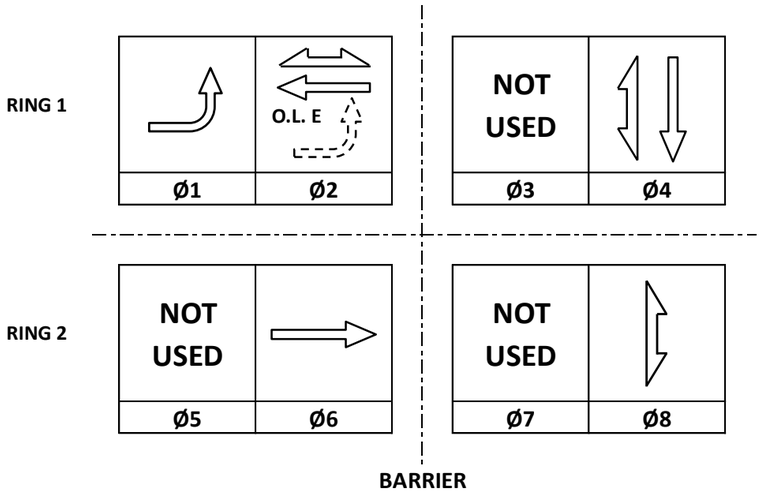
PAGE 2 OF 3

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 99	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0557\S66-0557_R6_2018.DWG
LAYOUT NAME - S66-0557_R6_pg2

PLOT DATE : 10/28/2022 6:27 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3		
Ø4	9,10,11	R
Ø5		
Ø6	1,2,3	R
Ø7		
Ø8		R
Ø2P	16,17	
Ø4P	14,15	
Ø6P		
Ø8P	12,13	
OLE	4,5	-
OLF		
OLG		
OLH		



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				
6	X	2	MIN	X
7				
8		4		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	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
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	41	43	45			
CALLED PHASE	1	2	4	4	4			
CALL OPTION	X	X		X	X			
DELAY TIME				X	X			
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME			X					
USE ADDED INITIAL		X						
CROSS SWITCH PHASE	2							

19	17	23	21	27			33	DETECTOR INPUT
APS							42	PLAN LOOP DETECTOR*(S)
2							4	CALLED PHASE
X								CALL OPTION
								DELAY TIME
X							X	EXTENTION OPTION
							X	EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	61		44	46			
CALLED PHASE	1	6		4	4			
CALL OPTION	X	X		X	X			
DELAY TIME				X	X			
EXTENTION OPTION	X	X		X	X			
EXTEND TIME								
USE ADDED INITIAL		X						
CROSS SWITCH PHASE	2							

20	18	24	22	28			34	DETECTOR INPUT
APS	APS							PLAN LOOP DETECTOR*(S)
4	8							CALLED PHASE
X	X							CALL OPTION
								DELAY TIME
X	X							EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

SIGNAL NO: S66-0557 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 8/22 PAGE NUMBER: 3 OF 3

FILE NAME: C:\BoxDrv\Box\DTSD\DTSD-SER\OPS\Traffic\Signals\Databases\Signal Intersection Files\S66-0557\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 4/5/2022 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: PLOT SCALE: 1:1

PROJECT ID:	4070-00-70
INTERSECTION:	USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST

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 WIRE COLOR									PED BUTTON	FUTURE APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	4				RED	ORG	GRN	BLK/WHT				
		6	RED/BLK	ORG/BLK	GRN/BLK								
SB2	7	12								BLK	BLU		
		B										WHT/BLK	
SB3	7	B										WHT/BLK	
SB4	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		13								BLK	BLU		
SB5	7	10	RED	ORG	GRN								
SB6	7	11	RED	ORG	GRN								
SB7	7	14								BLK	BLU		
		B										WHT/BLK	
SB8	7	1	RED	ORG	GRN								
SB9	12	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		15								BLK	BLU		
		B										WHT/BLK	
SB10	7	16								BLK	BLU		
		B										WHT/BLK	
SB11	7	9	RED	ORG	GRN								
SB12	7	17								BLK	BLU		
		B										WHT/BLK	

Equipment Grounding Conductor 10 AWG Green XLP	
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	SB12
SB12	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB4	SB5
PB5	SB8
PB8	SB9
PB9	SB11
PB12	CB1
PB13	SB4

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB4
CB1	SB13
SB13	SB9

Radar Detection Cable	
From	To
CB1	RA1

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	CABLE ROUTING	SHEET: 101	E

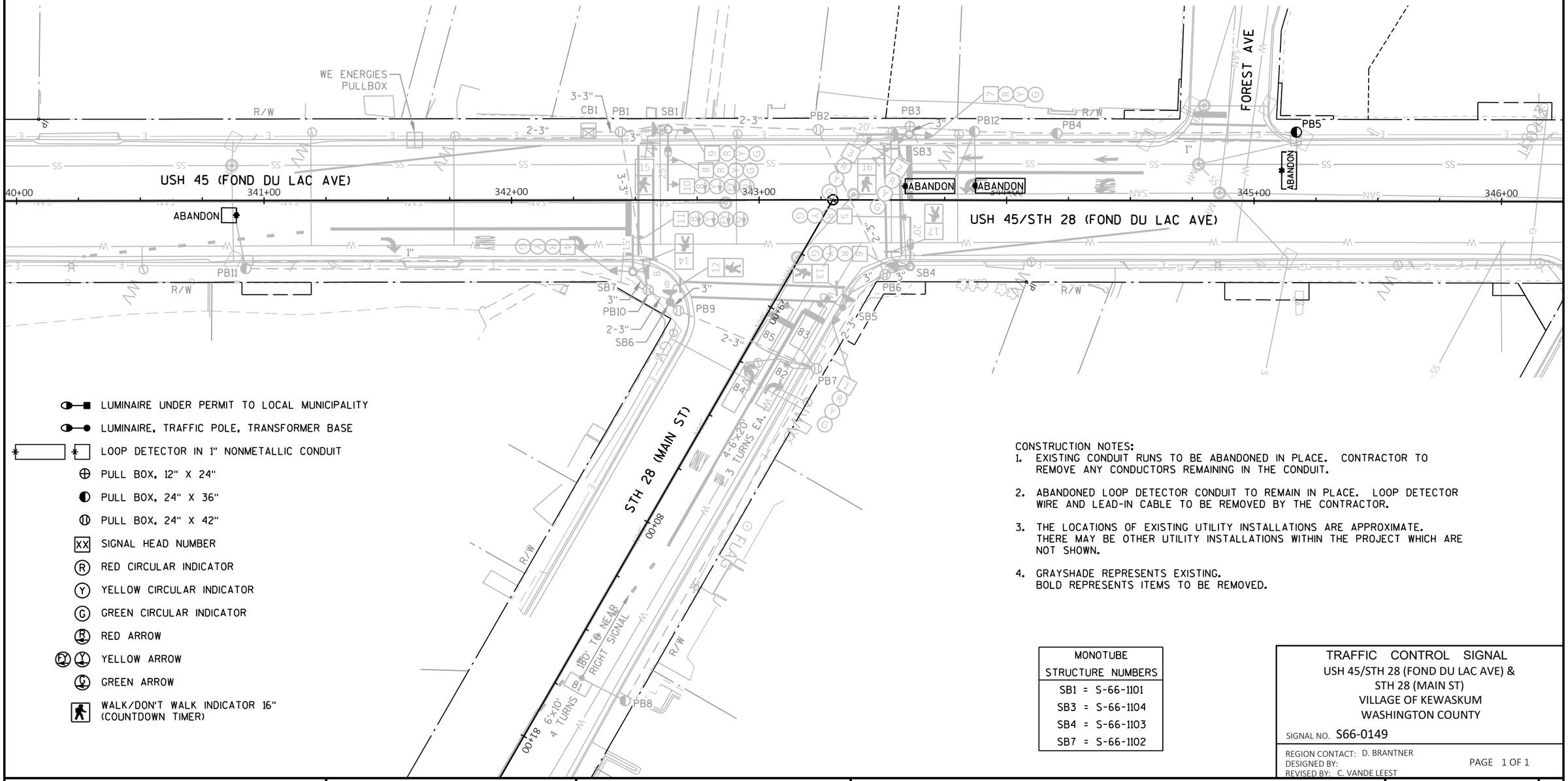
FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0557\S66-0557_cr_4070-00-70.pptx PLOT DATE : 3/16/2022 PLOT BY : DOTCMV PLOT NAME : S66-0557_cr.pdf PLOT SCALE : 1:1

2

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- PEDESTRIAN HEAD WITH ACCESSIBLE PEDESTRIAN PUSH BUTTON
- ACCESSIBLE PEDESTRIAN PUSH BUTTON



- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.

MONOTUBE STRUCTURE NUMBERS
SB1 = S-66-1101
SB3 = S-66-1104
SB4 = S-66-1103
SB7 = S-66-1102

TRAFFIC CONTROL SIGNAL
USH 45/STH 28 (FOND DU LAC AVE) &
STH 28 (MAIN ST)
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

SIGNAL NO. S66-0149

REGION CONTACT: D. BRANTNER
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 102	E

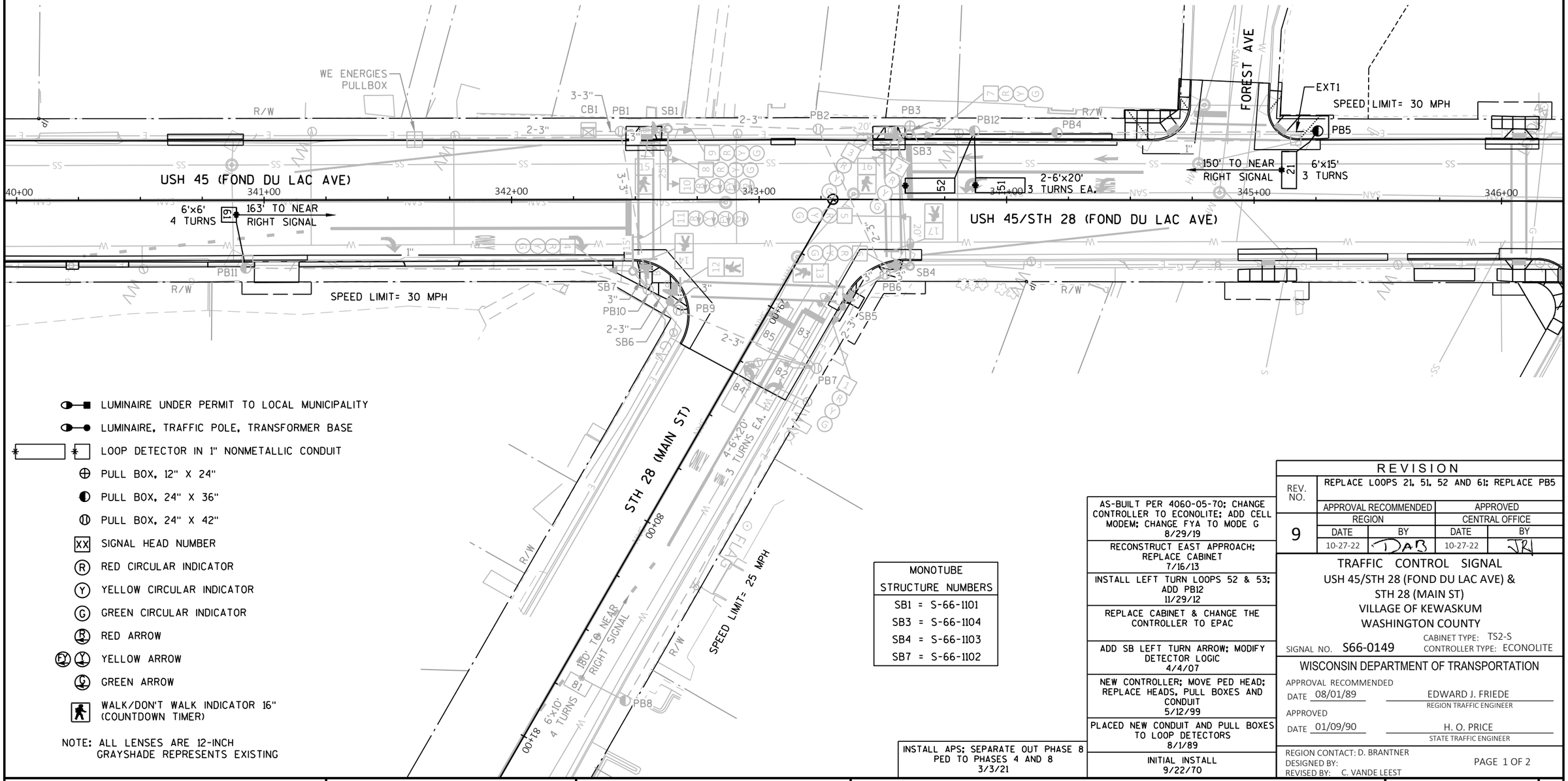
FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0149\S66-0149_REM_2018.DWG
LAYOUT NAME - S66-0149_rem_pg1
PLOT DATE : 8/1/2022 8:09 AM
PLOT BY : VANDE LEEST, CYNTHIA
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- PEDESTRIAN HEAD WITH ACCESSIBLE PEDESTRIAN PUSH BUTTON
- ACCESSIBLE PEDESTRIAN PUSH BUTTON

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. ALL LUMINAIRES ARE LED UNLESS OTHERWISE NOTED.



LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
PULL BOX, 12" X 24"
PULL BOX, 24" X 36"
PULL BOX, 24" X 42"
XX SIGNAL HEAD NUMBER
R RED CIRCULAR INDICATOR
Y YELLOW CIRCULAR INDICATOR
G GREEN CIRCULAR INDICATOR
R RED ARROW
FY Y YELLOW ARROW
G GREEN ARROW
WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS
SB1 = S-66-1101
SB3 = S-66-1104
SB4 = S-66-1103
SB7 = S-66-1102

REVISION	
REV. NO.	REPLACE LOOPS 21, 51, 52 AND 61; REPLACE PB5
	APPROVAL RECOMMENDED / APPROVED
	REGION / CENTRAL OFFICE
9	DATE 10-27-22 BY DAB / DATE 10-27-22 BY JPB

AS-BUILT PER 4060-05-70; CHANGE CONTROLLER TO ECONOLITE; ADD CELL MODEM; CHANGE FYA TO MODE G 8/29/19

RECONSTRUCT EAST APPROACH; REPLACE CABINET 7/16/13

INSTALL LEFT TURN LOOPS 52 & 53; ADD PB12 11/29/12

REPLACE CABINET & CHANGE THE CONTROLLER TO EPAC

ADD SB LEFT TURN ARROW; MODIFY DETECTOR LOGIC 4/4/07

NEW CONTROLLER; MOVE PED HEAD; REPLACE HEADS, PULL BOXES AND CONDUIT 5/12/99

PLACED NEW CONDUIT AND PULL BOXES TO LOOP DETECTORS 8/1/89

INITIAL INSTALL 9/22/70

INSTALL APS; SEPARATE OUT PHASE 8 PED TO PHASES 4 AND 8 3/3/21

TRAFFIC CONTROL SIGNAL

USH 45/STH 28 (FOND DU LAC AVE) &
STH 28 (MAIN ST)
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

CABINET TYPE: TS2-S
SIGNAL NO. S66-0149 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 08/01/89 EDWARD J. FRIEDE
REGION TRAFFIC ENGINEER

APPROVED
DATE 01/09/90 H. O. PRICE
STATE TRAFFIC ENGINEER

REGION CONTACT: D. BRANTNER
DESIGNED BY:
REVISED BY: C. VANDE LEEST

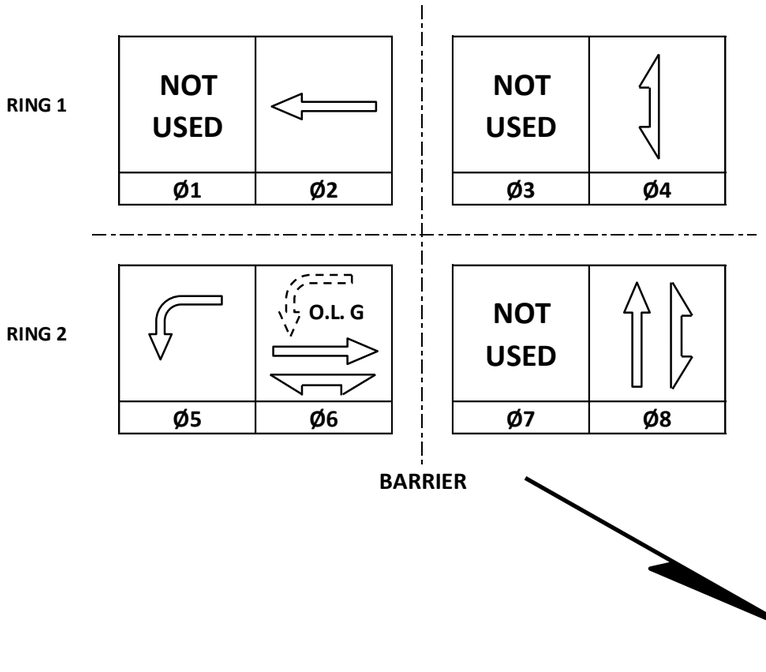
PAGE 1 OF 2

10-27-22 JPB

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 103	E

FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0149\S66-0149_R9_2018.DWG
LAYOUT NAME - S66-0149_R9_pg1
PLOT DATE : 10/28/2022 6:19 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1		
Ø2	7,8,9	R
Ø3		
Ø4		
Ø5	10,11	R ←
Ø6	4,5,6	R
Ø7		
Ø8	1,2,3	R
Ø2P		
Ø4P	14,15	
Ø6P	12,13	
Ø8P	16,17	
OLE		
OLF		
OLG	10,11	-
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		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	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	21	51	61	81	83	85		
CALLED PHASE	2	5	6	8	8	8		
CALL OPTION	X	X	X		X	X		
DELAY TIME					X	X		
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME				X				
USE ADDED INITIAL	X		X					
CROSS SWITCH PHASE		6						

DETECTOR INPUT	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	APS								PLAN LOOP DETECTOR*(S)
CALLED PHASE	6								CALLED PHASE
CALL OPTION	X								CALL OPTION
DELAY TIME									DELAY TIME
EXTENTION OPTION	X								EXTENTION OPTION
EXTEND TIME									EXTEND TIME
USE ADDED INITIAL									USE ADDED INITIAL
CROSS SWITCH PHASE									CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)		52		82	84			
CALLED PHASE		5		8	8			
CALL OPTION		X		X	X			
DELAY TIME				X				
EXTENTION OPTION		X		X	X			
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE		6						

DETECTOR INPUT	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	APS	APS							PLAN LOOP DETECTOR*(S)
CALLED PHASE	8	4							CALLED PHASE
CALL OPTION	X	X							CALL OPTION
DELAY TIME									DELAY TIME
EXTENTION OPTION	X	X							EXTENTION OPTION
EXTEND TIME									EXTEND TIME
USE ADDED INITIAL									USE ADDED INITIAL
CROSS SWITCH PHASE									CROSS SWITCH PHASE

USH 45/STH 28 (FOND DU LAC AVE) & STH 28 (MAIN ST)
VILLAGE OF KEWASKUM
WASHINGTON COUNTY

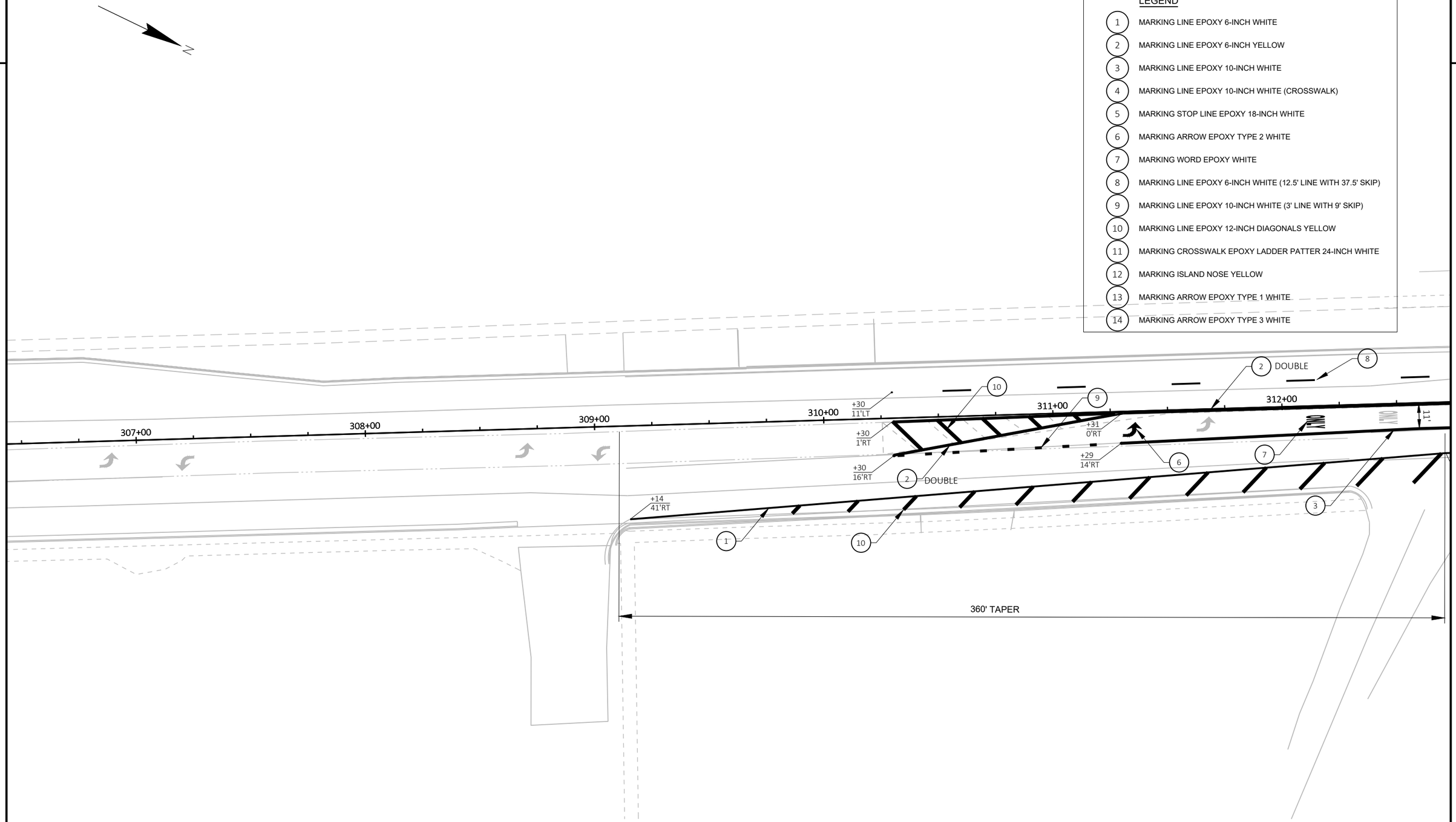
SIGNAL NO: S66-0149 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 8/22 PAGE NUMBER: 2 OF 2

2

2

LEGEND

1 MARKING LINE EPOXY 6-INCH WHITE
2 MARKING LINE EPOXY 6-INCH YELLOW
3 MARKING LINE EPOXY 10-INCH WHITE
4 MARKING LINE EPOXY 10-INCH WHITE (CROSSWALK)
5 MARKING STOP LINE EPOXY 18-INCH WHITE
6 MARKING ARROW EPOXY TYPE 2 WHITE
7 MARKING WORD EPOXY WHITE
8 MARKING LINE EPOXY 6-INCH WHITE (12.5' LINE WITH 37.5' SKIP)
9 MARKING LINE EPOXY 10-INCH WHITE (3' LINE WITH 9' SKIP)
10 MARKING LINE EPOXY 12-INCH DIAGONALS YELLOW
11 MARKING CROSSWALK EPOXY LADDER PATTER 24-INCH WHITE
12 MARKING ISLAND NOSE YELLOW
13 MARKING ARROW EPOXY TYPE 1 WHITE
14 MARKING ARROW EPOXY TYPE 3 WHITE

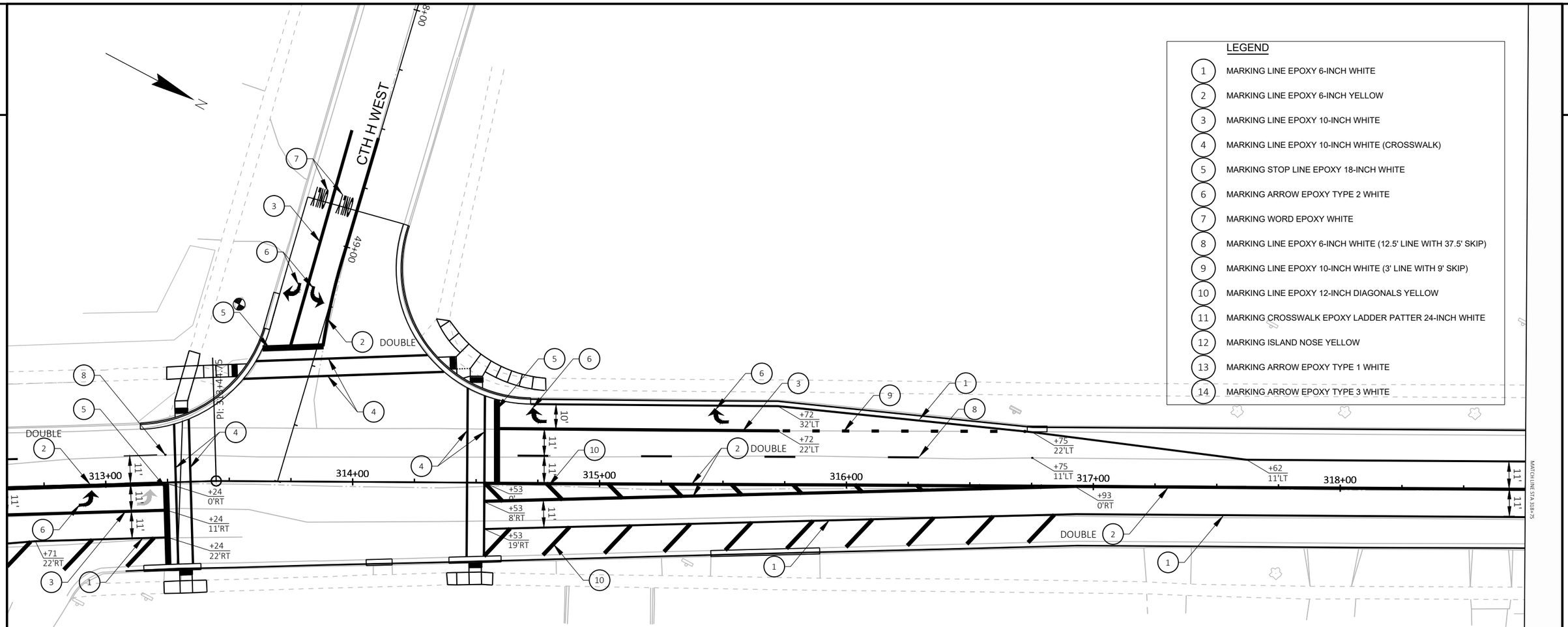


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 105	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 00

PLOT DATE : 7/24/2023 8:24 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 106	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 01

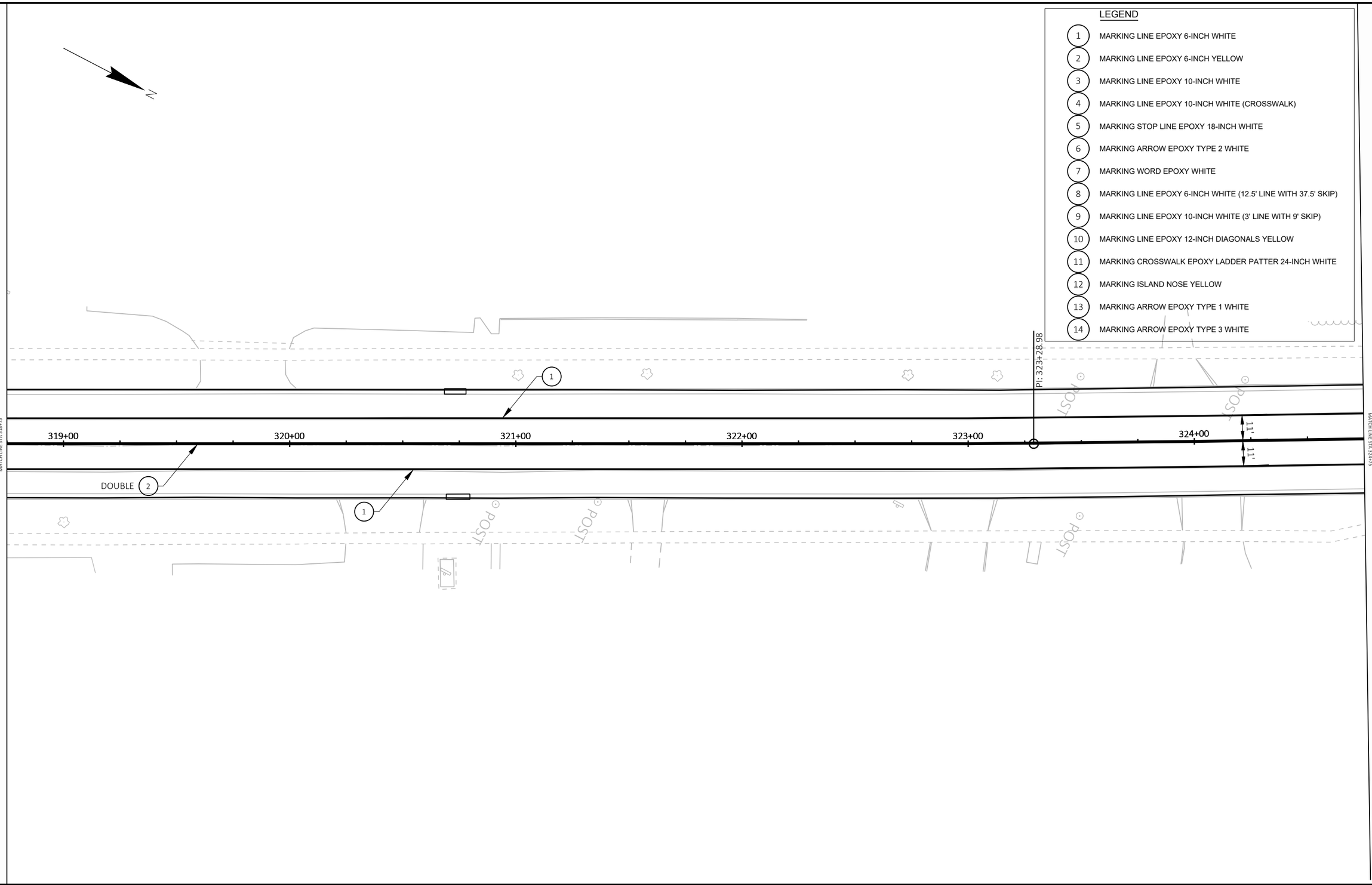
PLOT DATE : 7/24/2023 8:24 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

1. MARKING LINE EPOXY 6-INCH WHITE
2. MARKING LINE EPOXY 6-INCH YELLOW
3. MARKING LINE EPOXY 10-INCH WHITE
4. MARKING LINE EPOXY 10-INCH WHITE (CROSSWALK)
5. MARKING STOP LINE EPOXY 18-INCH WHITE
6. MARKING ARROW EPOXY TYPE 2 WHITE
7. MARKING WORD EPOXY WHITE
8. MARKING LINE EPOXY 6-INCH WHITE (12.5' LINE WITH 37.5' SKIP)
9. MARKING LINE EPOXY 10-INCH WHITE (3' LINE WITH 9' SKIP)
10. MARKING LINE EPOXY 12-INCH DIAGONALS YELLOW
11. MARKING CROSSWALK EPOXY LADDER PATTER 24-INCH WHITE
12. MARKING ISLAND NOSE YELLOW
13. MARKING ARROW EPOXY TYPE 1 WHITE
14. MARKING ARROW EPOXY TYPE 3 WHITE



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 107	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 02

PLOT DATE : 7/24/2023 8:24 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

ROSELAND DR.

20+00

21+00

LEGEND

1	MARKING LINE EPOXY 6-INCH WHITE
2	MARKING LINE EPOXY 6-INCH YELLOW
3	MARKING LINE EPOXY 10-INCH WHITE
4	MARKING LINE EPOXY 10-INCH WHITE (CROSSWALK)
5	MARKING STOP LINE EPOXY 18-INCH WHITE
6	MARKING ARROW EPOXY TYPE 2 WHITE
7	MARKING WORD EPOXY WHITE
8	MARKING LINE EPOXY 6-INCH WHITE (12.5' LINE WITH 37.5' SKIP)
9	MARKING LINE EPOXY 10-INCH WHITE (3' LINE WITH 9' SKIP)
10	MARKING LINE EPOXY 12-INCH DIAGONALS YELLOW
11	MARKING CROSSWALK EPOXY LADDER PATTER 24-INCH WHITE
12	MARKING ISLAND NOSE YELLOW
13	MARKING ARROW EPOXY TYPE 1 WHITE
14	MARKING ARROW EPOXY TYPE 3 WHITE

MATCH LINE STA 324+75

MATCH LINE STA 330+75

11'

11'

+05
11'LT

+05
22'LT

+06
11'RT

325+00

326+00

327+00

328+00

329+00

330+00

DOUBLE

DOUBLE

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 108	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 03

PLOT DATE : 7/24/2023 8:24 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

CLINTON ST

28+00

29+00

LEGEND

1	MARKING LINE EPOXY 6-INCH WHITE
2	MARKING LINE EPOXY 6-INCH YELLOW
3	MARKING LINE EPOXY 10-INCH WHITE
4	MARKING LINE EPOXY 10-INCH WHITE (CROSSWALK)
5	MARKING STOP LINE EPOXY 18-INCH WHITE
6	MARKING ARROW EPOXY TYPE 2 WHITE
7	MARKING WORD EPOXY WHITE
8	MARKING LINE EPOXY 6-INCH WHITE (12.5' LINE WITH 37.5' SKIP)
9	MARKING LINE EPOXY 10-INCH WHITE (3' LINE WITH 9' SKIP)
10	MARKING LINE EPOXY 12-INCH DIAGONALS YELLOW
11	MARKING CROSSWALK EPOXY LADDER PATTER 24-INCH WHITE
12	MARKING ISLAND NOSE YELLOW
13	MARKING ARROW EPOXY TYPE 1 WHITE
14	MARKING ARROW EPOXY TYPE 3 WHITE

14
13
5
2 DOUBLE
3
4

Pl: 331+61.61

331+00 332+00 333+00 334+00 335+00 336+00

MATCH LINE STA 330+75

MATCH LINE STA 336+75

DOUBLE 2
4
27+00
4
DOUBLE 2
DOUBLE 2
30+00
5
5

ELM ST

28+00

31+00

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 109	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 04

PLOT DATE : 7/24/2023 8:24 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

1 MARKING LINE EPOXY 6-INCH WHITE
2 MARKING LINE EPOXY 6-INCH YELLOW
3 MARKING LINE EPOXY 10-INCH WHITE
4 MARKING LINE EPOXY 10-INCH WHITE (CROSSWALK)
5 MARKING STOP LINE EPOXY 18-INCH WHITE
6 MARKING ARROW EPOXY TYPE 2 WHITE
7 MARKING WORD EPOXY WHITE
8 MARKING LINE EPOXY 6-INCH WHITE (12.5' LINE WITH 37.5' SKIP)
9 MARKING LINE EPOXY 10-INCH WHITE (3' LINE WITH 9' SKIP)
10 MARKING LINE EPOXY 12-INCH DIAGONALS YELLOW
11 MARKING CROSSWALK EPOXY LADDER PATTER 24-INCH WHITE
12 MARKING ISLAND NOSE YELLOW
13 MARKING ARROW EPOXY TYPE 1 WHITE
14 MARKING ARROW EPOXY TYPE 3 WHITE

PROSPECT ST

32+00

33+00

34+00

337+00 338+00 339+00 340+00 341+00 342+00

MATCH LINE STA 336+75

MATCH LINE STA 342+75

POST

POST

FLAG

+12 11'LT

+12 22'LT

+27 22'RT

+27 11'RT

DOUBLE

11'

11'

STH 28 EAST

80+00

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 110	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 05

PLOT DATE : 7/24/2023 8:25 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

1 MARKING LINE EPOXY 6-INCH WHITE
2 MARKING LINE EPOXY 6-INCH YELLOW
3 MARKING LINE EPOXY 10-INCH WHITE
4 MARKING LINE EPOXY 10-INCH WHITE (CROSSWALK)
5 MARKING STOP LINE EPOXY 18-INCH WHITE
6 MARKING ARROW EPOXY TYPE 2 WHITE
7 MARKING WORD EPOXY WHITE
8 MARKING LINE EPOXY 6-INCH WHITE (12.5' LINE WITH 37.5' SKIP)
9 MARKING LINE EPOXY 10-INCH WHITE (3' LINE WITH 9' SKIP)
10 MARKING LINE EPOXY 12-INCH DIAGONALS YELLOW
11 MARKING CROSSWALK EPOXY LADDER PATTER 24-INCH WHITE
12 MARKING ISLAND NOSE YELLOW
13 MARKING ARROW EPOXY TYPE 1 WHITE
14 MARKING ARROW EPOXY TYPE 3 WHITE

N

FOREST AVE

PI: 343+29.79

343+00 344+00 345+00 346+00 347+00 348+00

39+00 40+00 43+00 44+00

+55 11'LT

+66 11'RT

+66 22'RT

+66 9'LT

DOUBLE

11' 11' 12' 10'

1ST ST.

MATCH LINE STA 342+75

MATCH LINE STA 349+50

REMOVALS SUBJ TO PMT

REMOVALS SUBJ TO PMT

FLAG

ONLY

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 111	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 06

PLOT DATE : 7/24/2023 8:25 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

LEGEND

1 MARKING LINE EPOXY 6-INCH WHITE
2 MARKING LINE EPOXY 6-INCH YELLOW
3 MARKING LINE EPOXY 10-INCH WHITE
4 MARKING LINE EPOXY 10-INCH WHITE (CROSSWALK)
5 MARKING STOP LINE EPOXY 18-INCH WHITE
6 MARKING ARROW EPOXY TYPE 2 WHITE
7 MARKING WORD EPOXY WHITE
8 MARKING LINE EPOXY 6-INCH WHITE (12.5' LINE WITH 37.5' SKIP)
9 MARKING LINE EPOXY 10-INCH WHITE (3' LINE WITH 9' SKIP)
10 MARKING LINE EPOXY 12-INCH DIAGONALS YELLOW
11 MARKING CROSSWALK EPOXY LADDER PATTER 24-INCH WHITE
12 MARKING ISLAND NOSE YELLOW
13 MARKING ARROW EPOXY TYPE 1 WHITE
14 MARKING ARROW EPOXY TYPE 3 WHITE

NORTH AVE.

48+00

47+00

RFBB LOCATION- SEE CONSTRUCTION DETAIL SHEET

SEE CONSTRUCTION DETAIL

PI: 350+00.38

MATCH LINE STA 348+50

349+00

350+00

351+00

352+00

353+00

354+00

MATCH LINE STA 356+50

DOUBLE 2

DOUBLE 2

5

4

11

4

4

5

47+00

2ND ST.

47+00

POST

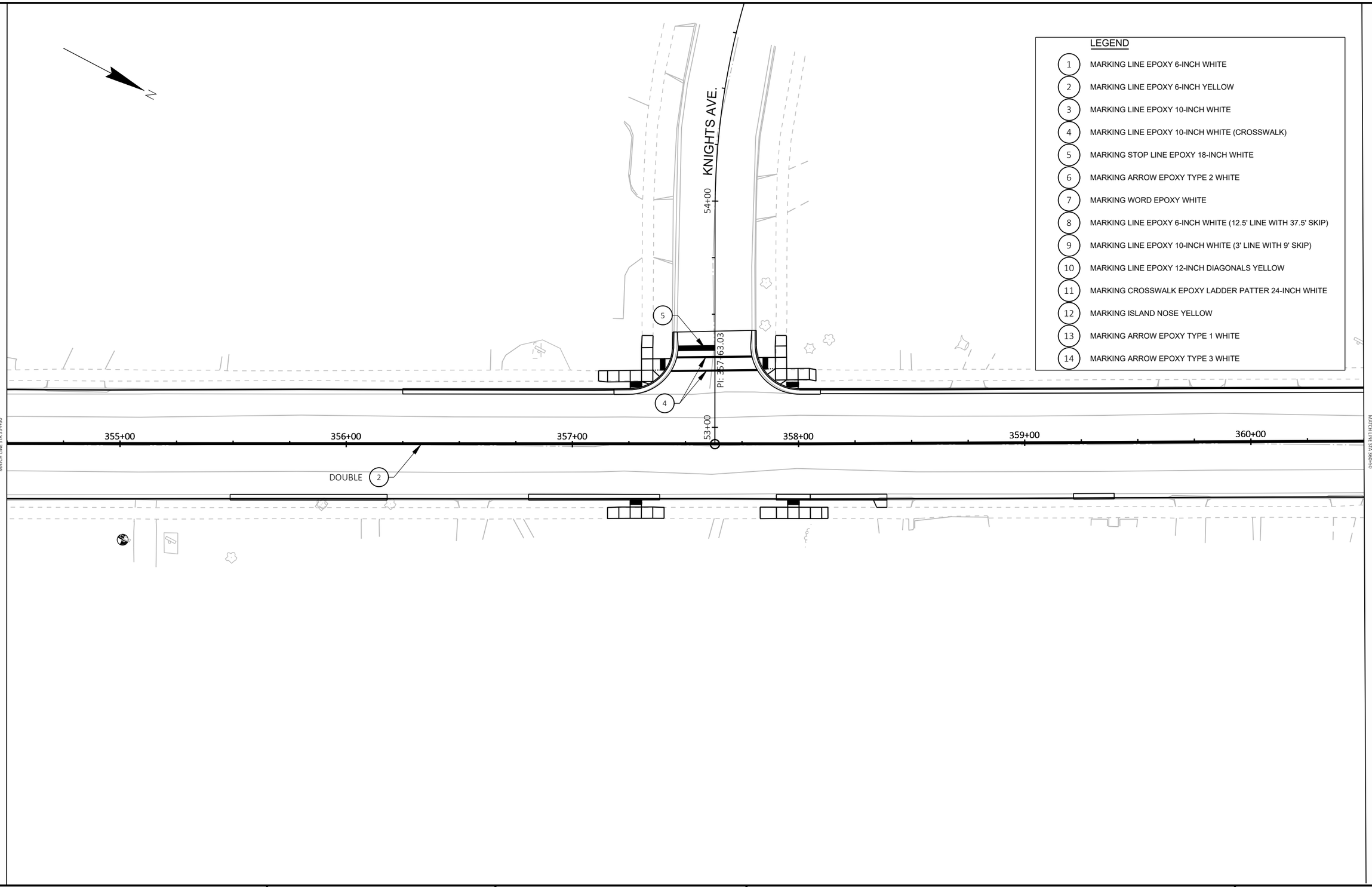
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 112	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 07

PLOT DATE : 7/24/2023 8:25 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

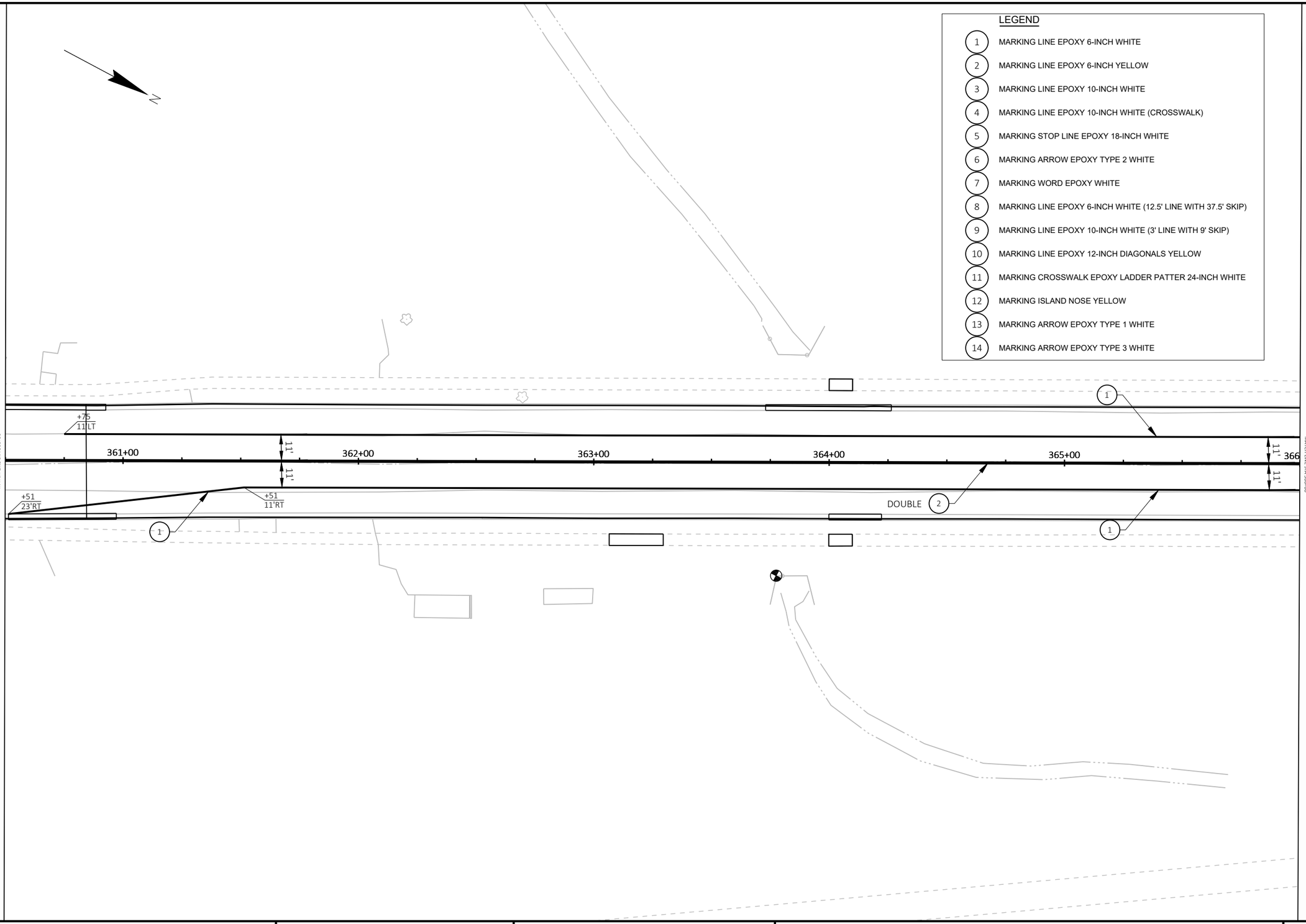


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 113	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 08

PLOT DATE : 7/24/2023 8:25 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



2

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 114	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 09

PLOT DATE : 7/24/2023 8:25 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

1. MARKING LINE EPOXY 6-INCH WHITE
2. MARKING LINE EPOXY 6-INCH YELLOW
3. MARKING LINE EPOXY 10-INCH WHITE
4. MARKING LINE EPOXY 10-INCH WHITE (CROSSWALK)
5. MARKING STOP LINE EPOXY 18-INCH WHITE
6. MARKING ARROW EPOXY TYPE 2 WHITE
7. MARKING WORD EPOXY WHITE
8. MARKING LINE EPOXY 6-INCH WHITE (12.5' LINE WITH 37.5' SKIP)
9. MARKING LINE EPOXY 10-INCH WHITE (3' LINE WITH 9' SKIP)
10. MARKING LINE EPOXY 12-INCH DIAGONALS YELLOW
11. MARKING CROSSWALK EPOXY LADDER PATTER 24-INCH WHITE
12. MARKING ISLAND NOSE YELLOW
13. MARKING ARROW EPOXY TYPE 1 WHITE
14. MARKING ARROW EPOXY TYPE 3 WHITE

N

MATCH LINE STA 366+00

+00

367+00

PC: 367+73.61

368+00

369+00

370+00

371+00

+33
11'RT

MATCH LINE STA 371+00

11'

11'

1

DOUBLE 2

1

POST

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 115	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 10

PLOT DATE : 7/24/2023 8:25 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

1. MARKING LINE EPOXY 6-INCH WHITE
2. MARKING LINE EPOXY 6-INCH YELLOW
3. MARKING LINE EPOXY 10-INCH WHITE
4. MARKING LINE EPOXY 10-INCH WHITE (CROSSWALK)
5. MARKING STOP LINE EPOXY 18-INCH WHITE
6. MARKING ARROW EPOXY TYPE 2 WHITE
7. MARKING WORD EPOXY WHITE
8. MARKING LINE EPOXY 6-INCH WHITE (12.5' LINE WITH 37.5' SKIP)
9. MARKING LINE EPOXY 10-INCH WHITE (3' LINE WITH 9' SKIP)
10. MARKING LINE EPOXY 12-INCH DIAGONALS YELLOW
11. MARKING CROSSWALK EPOXY LADDER PATTER 24-INCH WHITE
12. MARKING ISLAND NOSE YELLOW
13. MARKING ARROW EPOXY TYPE 1 WHITE
14. MARKING ARROW EPOXY TYPE 3 WHITE

N

MATCH LINE STA 371+50

372+00
373+00
374+00
375+00
376+00
377+00

PT: 374+00.03

+93 11'LT

11'

DOUBLE 2

11'

+33 22'RT

4

1

5

69+00

OLD FOND DU LAC RD.

70+00

MARKING REMOVAL CURB MARKING SPECIAL

DOUBLE 2

3

STH 28 WEST

00+69

+29 17'RT

70+00

6

5

12

+87 25'RT

+77 0'RT

PC: 376+33.81

71+00

12

5

+93 22'LT

+60 0'RT

8

1

2 DOUBLE

+43 0'RT

+65 0'RT

+65 11'RT

+65 22'RT

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 116 E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 11

PLOT DATE : 7/24/2023 8:25 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

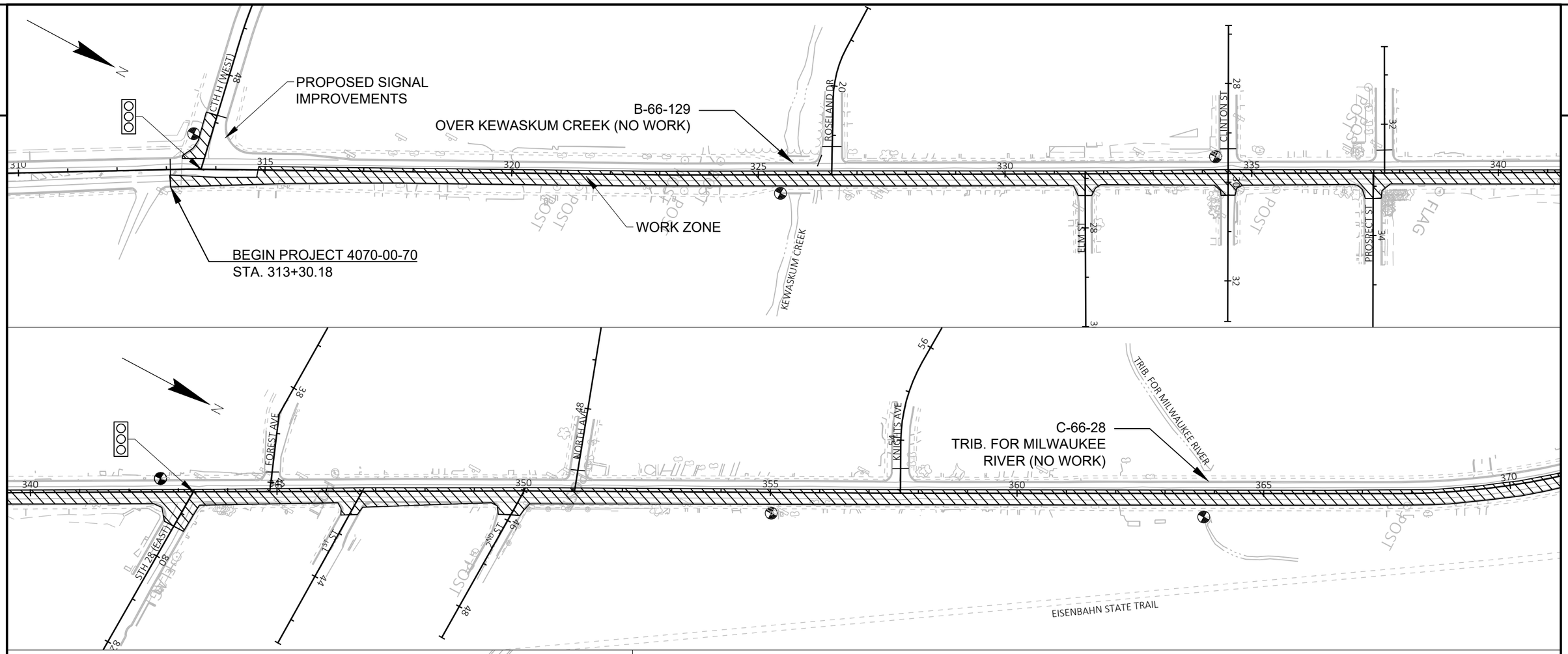
LEGEND

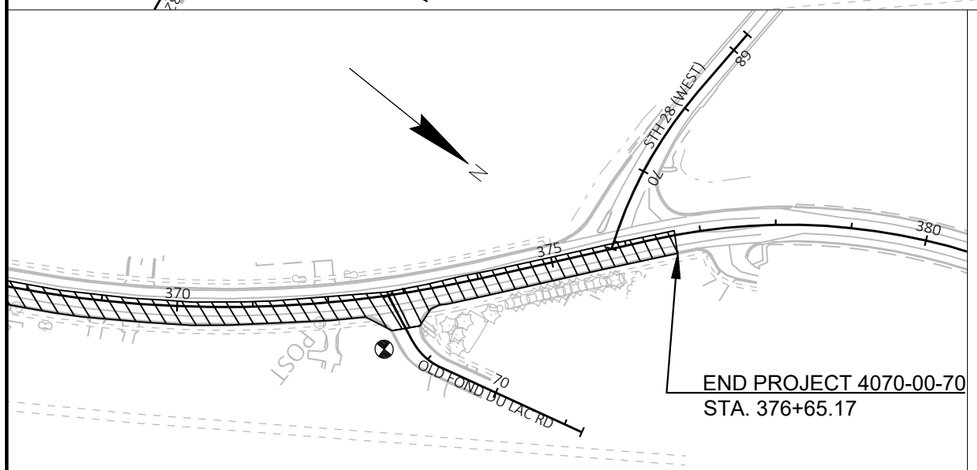
- TYPE III BARRICADE WITH TWO TYPE A LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE A LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- Ⓐ TYPE A WARNING LIGHT (FLASHING)
- Ⓒ TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PEDESTRIAN BARRIER PER SDD TRAFFIC CONTROL PEDESTRIAN ACCOMMODATION
- FLAGS, 16" X 16" MIN. (ORANGE)

- 1 TEMPORARY MARKING LINE PAINT 4-INCH - WHITE
- 2 TEMPORARY MARKING LINE PAINT 8-INCH - WHITE
- 3 TEMPORARY MARKING LINE PAINT 4-INCH - YELLOW
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH - WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH - YELLOW
- 6 TEMPORARY MARKING LINE STOP LINE PAINT 18-INCH
- 7 TEMPORARY MARKING STOP LINE REMOVAL TAPE 18-INCH

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER
2) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED
3) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE
4) TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS TYPE "C" (STEADY BURN ONE WAY) LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN, DRUMS SHALL BE SPACED 25-FT O.C. IN TAPERS AND 50-FT O.C. ON TANGENTS.
5) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.
6) WORK AREAS SHOWN MAY NOT ILLUSTRATE ALL REMOVALS. SEE REMOVAL SHEETS FOR ADDITIONAL INFORMATION.
7) ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL BE DONE BY GRINDING ON ANY EXISTING OR TEMPORARY PAVEMENT OR BY WATER BLASTING ON ANY PERMANENT PAVEMENT OR EXISTING PAVEMENT THAT WILL REMAIN IN PLACE.
8) BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.
9) 16" X 16" ORANGE FLAGS ARE REQUIRED ON ALL TEMPORARY STOP SIGNS OR AS SHOWN IN THE TRAFFIC CONTROL PLANS. 16" X 16" ORANGE FLAGS SHALL BE INCIDENTAL TO TRAFFIC CONTROL SIGN BID ITEMS.
10) ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. IN LIEU OF COVERING POST MOUNTED SIGNS, THE CONTRACT MAY CHOOSE TO REMOVE AND REINSTALL THEM.
11) CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
12) FOR A LANE CLOSURE THAT IS IN PLACE FEWER THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. SIGNS MUST BE PLACED AT THE HEIGHT SHOWN IN THE MUTCD.
13) CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR DETAILS OF THE TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN IN THESE PLANS.
14) PLACE PORTABLE CHANGEABLE MESSAGE BOARD 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER.
15) REMOVE ALL NORTHBOUND SIGNS STAGE 1 THAT CALL FOR REMOVAL ON THE SIGNING SHEET. COVER SIGNS AS SHOWN ON THE PLANS.
16) SEE PEDESTRIAN DETOURS FOR CROSSWALK CLOSURE STAGING REQUIREMENTS.



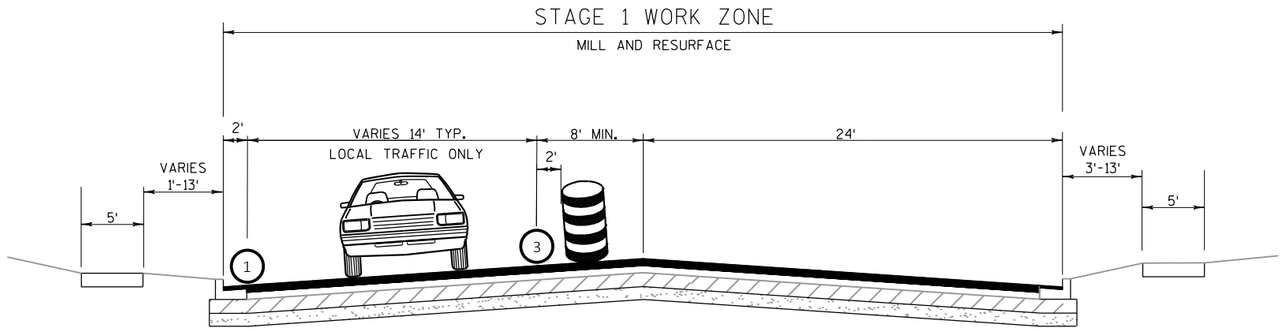


CONSTRUCTION: MILL AND OVERLAY NORTHBOUND LANES. CONSTRUCT OUTSIDE CURBS, SIDEWALKS AND CURB RAMPS ON THE NORTHBOUND SIDE OF USH 45.

TRAFFIC: DETOUR ALL TRAFFIC AND MAINTAIN 1 LANE OPEN SOUTHBOUND FOR LOCAL TRAFFIC ONLY. DO NOT CLOSE CONSECUTIVE INTERSECTIONS. ALTERNATE INTERSECTIONS SHALL REMAIN OPEN FOR LOCAL TRAFFIC AND PEDESTRIAN ACCOMMODATIONS.

PROJECT NO: 4070 - 00 - 70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL OVERVIEW - STAGE 1	SHEET 118	E

2



STAGE 1- NB AND SB LANES CLOSED AND DETOURED, MAINTAIN MIN. 12-FOOT LANE FOR LOCAL TRAFFIC ON SB SIDE

STAGING TYPICAL SECTION
FOND DU LAC AVE

STAGE 1 NOTES
-CONSTRUCTION WORK AT INTERSECTIONS SHALL NOT CLOSE ADJACENT INTERSECTIONS.
ALTERNATE INTERSECTIONS SHALL REMAIN OPEN FOR LOCAL TRAFFIC AND PEDESTRIAN ACCOMMODATIONS.

2

END ROAD WORK
G20-2A
48"X24"

SEE DETOUR SIGNING AND STANDARD DETAIL DRAWINGS FOR ADDITIONAL SIGNAGE.

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
WO20-5R

W04-2R

N

TIMBLIN DRIVE

200'

200'

PLACE 500' SOUTH OF TIMBLIN DRIVE

END ROAD WORK
G20-2A
48"X24"

MARKING REMOVAL
SPECIAL MARKING

MARKING REMOVAL
LINE 8-INCH

MARKING REMOVAL
SPECIAL MARKING

306+00 307+00 308+00 309+00 310+00 311+00 312+00

312+50.00

USH 45

USH 45

50' TYP.

25'

25'

15'

3

6

1

CENTER LANE ONLY
R3-9B

COVER SIGN

180' TAPER

WO1-4L

360' MIN. TANGENT

STOP
R1-1
30"X30"

ONLY ONLY ONLY

COVER SIGN

WO1-6
48" X 24"

TYPE III BARRICADE

180' SHIFTING TAPER

85' BUFFER

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 120	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet1

PLOT DATE : 7/31/2023 4:57 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

MARKING REMOVAL LINE 4-INCH

COVER SIGN

FOND DU LAC / WEST BEND

ESTR D1-2

CTH H WEST

48+00

160' TAPER

END ROAD WORK
G20-2A
48"X24"

WO1-6
48" X 24"

TYPE III BARRICADE

W04-2L

LEFT LANE CLOSED AHEAD
W20-5SA

ROAD WORK AHEAD
W20-1A

200' 200' 200'

PLACE SIGNS 200' FROM END OF TAPER

COVER SIGN

ONLY ONLY
ESTR

45
ESTR
M6-1
21"X21"

ONLY
R3-5R
42"X48"

MARKING REMOVAL SPECIAL SYMBOL

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

3

80' MINIMUM BUFFER

48+00

SEE TEMPORARY PEDESTRIAN ACCOMMODATIONS PLAN

ONLY
R3-5L
42"X48"

ONE WAY
R6-2R
24"X30"

R3-2
24"X24"

ONLY
R3-5L
42"X48"

WRONG WAY
R5-1A
36"X24"

ONE WAY
R6-2L
24"X30"

SEE TEMPORARY PEDESTRIAN ACCOMMODATIONS PLAN

REMOVE MARKING LINE 4-INCH (WHITE EDGE LINE)

ONE WAY
R6-2L
24"X30"

NO PARKING
R7-1D
18"X24"

1

3

25'

50'

313+00 314+00 315+00 316+00 317+00 318+00 319+00

USH 45

319+75.00

6

STOP
R1-1
30"X30"

3 DOUBLE YELLOW

COVER SIGN

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

DO NOT ENTER
R5-1
30"X30"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

INSTALL "NO TRUCKS" SIGNING ON EDGEWOOD ROAD. 1/2-MILE WEST OF THE INTERSECTION OF USH 45 AND CTH H.

N

EDGEWOOD ROAD

CTH H WEST

R5-2
24"X24"

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 121	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet2

PLOT DATE : 7/13/2023 3:52 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

ROSELAND DR.

R3-2
24"X24"

ONE WAY
R6-2L
24"X30"

WRONG WAY
R5-1A
36"X24"

NO PARKING ANY TIME
R7-1D
18"X24"

50'

25'

319+75.00

320+00

321+00

322+00

323+00

324+00

325+00

326+00

327+00.00

USH 45

USH 45

ONE WAY
R6-2R
24"X30"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

ONE WAY
R6-2R
24"X30"

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 122	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet3

PLOT DATE : 7/13/2023 3:52 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

WRONG WAY
R5-1A
36"X24"

ONE WAY
R6-2L
24"X30"

NO PARKING ANY TIME
R7-1D
18"X24"

ONE WAY
R6-2L
24"X30"

ONE WAY
R6-2R
24"X30"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

ONE WAY
R6-2L
24"X30"

STOP
R1-1
30"X30"

R3-1
24"X24"

WRONG WAY
R5-1A
36"X24"

NO PARKING ANY TIME
R7-1D
18"X24"

25'

25'

327+00.00

328+00

329+00

330+00

331+00

332+00

333+00

334

334+00.00

USH 45

USH 45

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

DOUBLE YELLOW

ONE WAY
R6-2R
24"X30"

ONE WAY
R6-2R
24"X30"

ONE WAY
R6-2R
24"X30"

ELM ST

27+00

28+00

29+00

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 123	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet4

PLOT DATE : 7/13/2023 3:52 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

CLINTON ST

PROSPECT ST

USH 45

USH 45

28+00

29+00

31+00

32+00

33+00

34+00

35+00

334+00.00

335+00

336+00

337+00

338+00

339+00

340+00

341+00.00

341

313+00

321+00

200'

200'

200'

PLACE SIGNS 200' FROM END OF TAPER

125' TAPER

55' BUFFER

25'

25'

15'

W04-2L

LEFT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

WO1-6
48" X 24"

TYPE III BARRICADE

MARKING REMOVAL LINE 4-INCH

MARKING REMOVAL SPECIAL SYMBOL

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

R3-2
24"X24"

WRONG WAY
R5-1A
36"X24"

ONE WAY
R6-2L
24"X30"

NO PARKING ANY TIME
R7-1D
18"X24"

ONE WAY
R6-2R
24"X30"

END ROAD WORK
G20-2A
48"X24"

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

WRONG WAY
R5-1A
36"X24"

ONE WAY
R6-2L
24"X30"

ONE WAY
R6-2L
24"X30"

NO PARKING ANY TIME
R7-1D
18"X24"

ONE WAY
R6-2L
24"X30"

DOUBLE YELLOW

STOP
R1-1
30"X30"

R3-1
24"X24"

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

DOUBLE YELLOW

STOP
R1-1
30"X30"

R3-1
24"X24"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

ONE WAY
R6-2R
24"X30"

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 124	E

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

FOREST AVE.

ONE WAY
R6-2L
24"X30"

WRONG WAY
R5-1A
36"X24"

NO PARKING ANY TIME
R7-1D
18"X24"

R3-2
24"X24"

R6-2R
24"X30"

R6-2t
24"X30"

STOP
R1-1
30"X30"

R3-1
24"X24"

DOUBLE YELLOW

25'

USH 45

1ST ST

STH 28 EAST

MARKING REMOVAL LINE
4-INCH (DOT LANE LINE)

SOUTH 45 NORTH 45

COVER SIGN

PLACE SIGN PRIOR TO START OF TRAFFIC CONTROL EQUIPMENT

341+00.00

342+00

343+00

344+00

345+00

346+00

347+00

348+00.00

39+00

40+00

79+00

80+00

81+00

43+00

44+00

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 125	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet6

PLOT DATE : 7/13/2023 3:52 PM

PLOT BY : JOSHUA MOUNT

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

MOVE EXISTING SIGN TO TEMPORARY SUPPORT

END ROAD WORK
G20-2A
48"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

NORTH AVE.

ONE WAY
R6-2L
24"X30"

NO PARKING ANY TIME
R7-1D
18"X24"

WRONG WAY
R5-1A
36"X24"

R3-2
24"X24"

ONE WAY
R6-2R
24"X30"

USH 45

348+00.00

349+00

350+00

351+00

352+00

353+00

354+00

355+00.00

25'

50'

STOP
R1-1
30"X30"

R3-1
24"X24"

DOUBLE YELLOW

2ND ST.

MOVE EXISTING SIGN TO TEMPORARY SUPPORT
REMOVE

ROAD WORK AHEAD
W20-1A

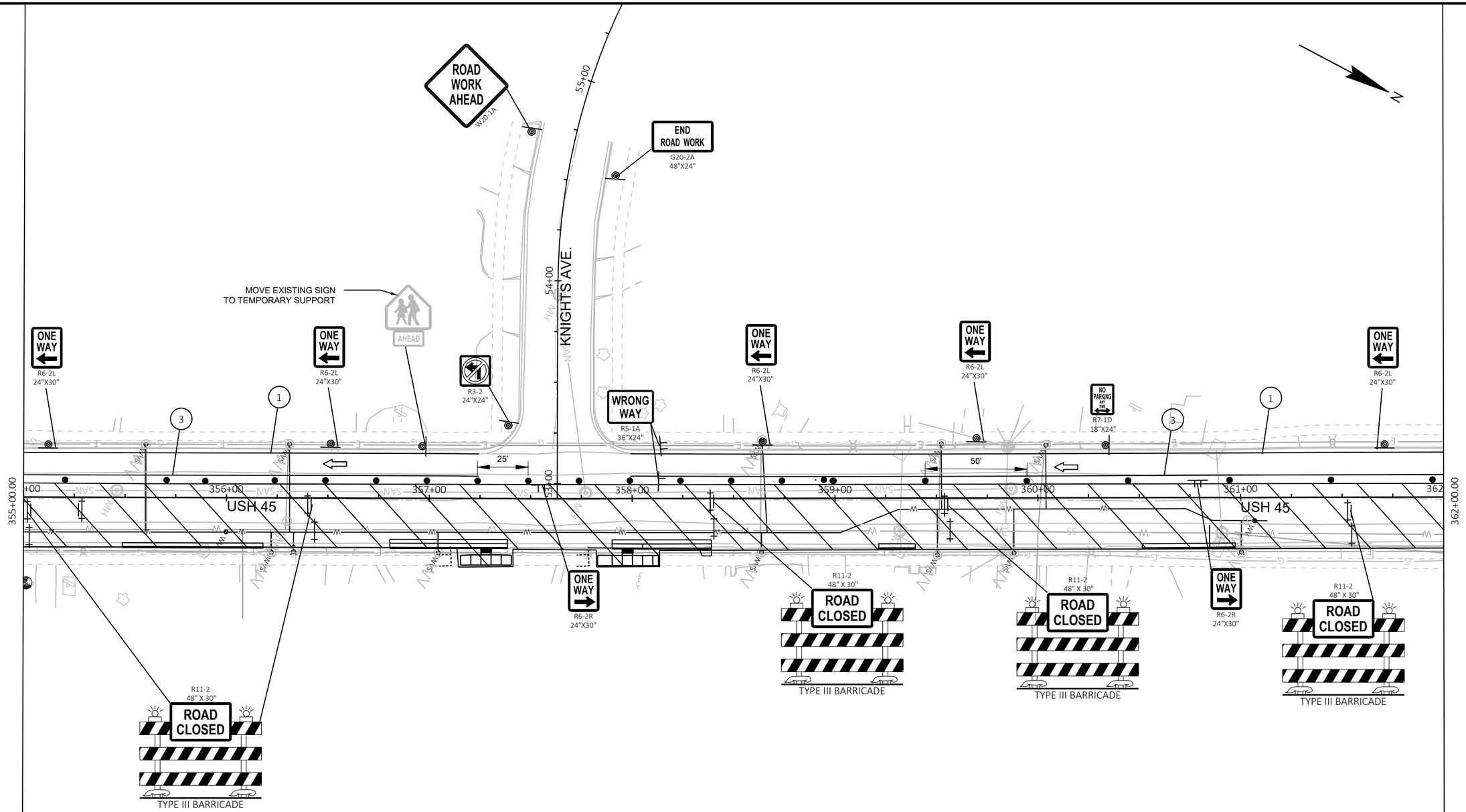
N

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 126	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet7

PLOT DATE : 7/13/2023 3:52 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 127	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet8

PLOT DATE : 7/13/2023 3:52 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

WRONG WAY
R5-1A
36"X24"

ONE WAY
R6-2L
24"X30"

NO PARKING ANY TIME
R7-1D
18"X24"

USH 45

50'

USH 45

362+00.00

363+00

364+00

365+00

366+00

367+00

368+00

369

369+00.00

R11-2
48"X 30"
ROAD CLOSED
TYPE III BARRICADE

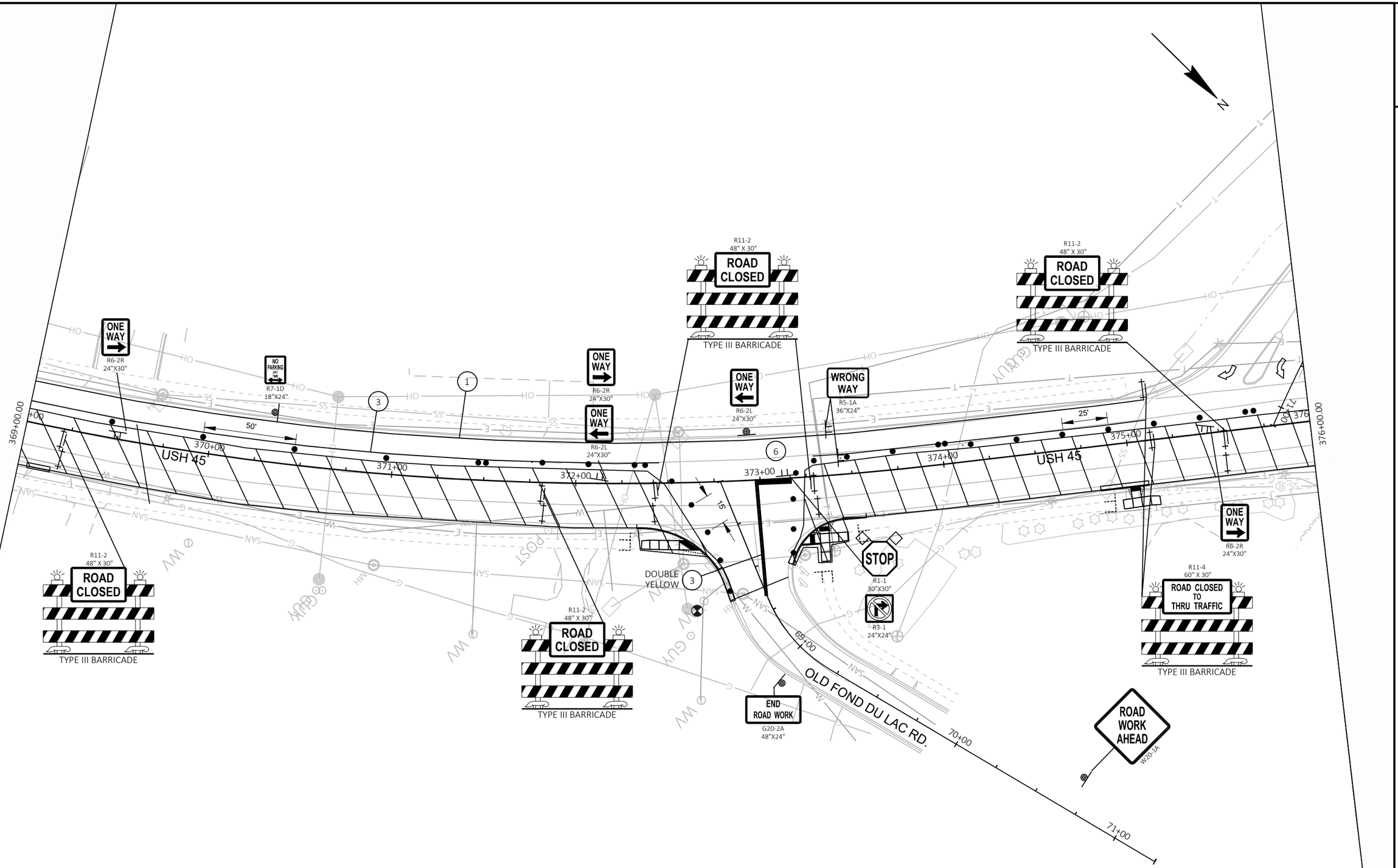
R11-2
48"X 30"
ROAD CLOSED
TYPE III BARRICADE

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 128	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet9

PLOT DATE : 7/13/2023 3:52 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 129	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet10

PLOT DATE : 7/13/2023 3:52 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

SEE DETOUR SIGNING AND STANDARD DETAIL DRAWINGS FOR ADDITIONAL SIGNAGE.

COORDINATE SIGNING WITH DETOUR PLAN

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED AHEAD
W20-3A

WO1-4R

R11-4
60"X 30"
ROAD CLOSED TO THRU TRAFFIC

TYPE III BARRICADE

WO1-6
48" X 24"

TYPE III BARRICADE

STH 28 WEST

USH 45

500'

500'

350'

133' TAPER

500'

25'

376+00.00

377+00

378+00

379+00

380+00

381+00

382+00

383+00

383+25.00

END ROAD WORK
G20-2A
48"X24"

MAINTAIN TRAFFIC, STH 28 LEFT TURN THROUGHOUT CONSTRUCTION. USE FLAGGING AS NECESSARY TO COMPLETE REQUIRED WORK.

INSTALL "NO TRUCKS" SIGNING ON EDGEWOOD ROAD. 1/4-MILE WEST OF THE INTERSECTION OF STH 28 AND USH 41.

R5-2
24"X24"

EDGEWOOD ROAD

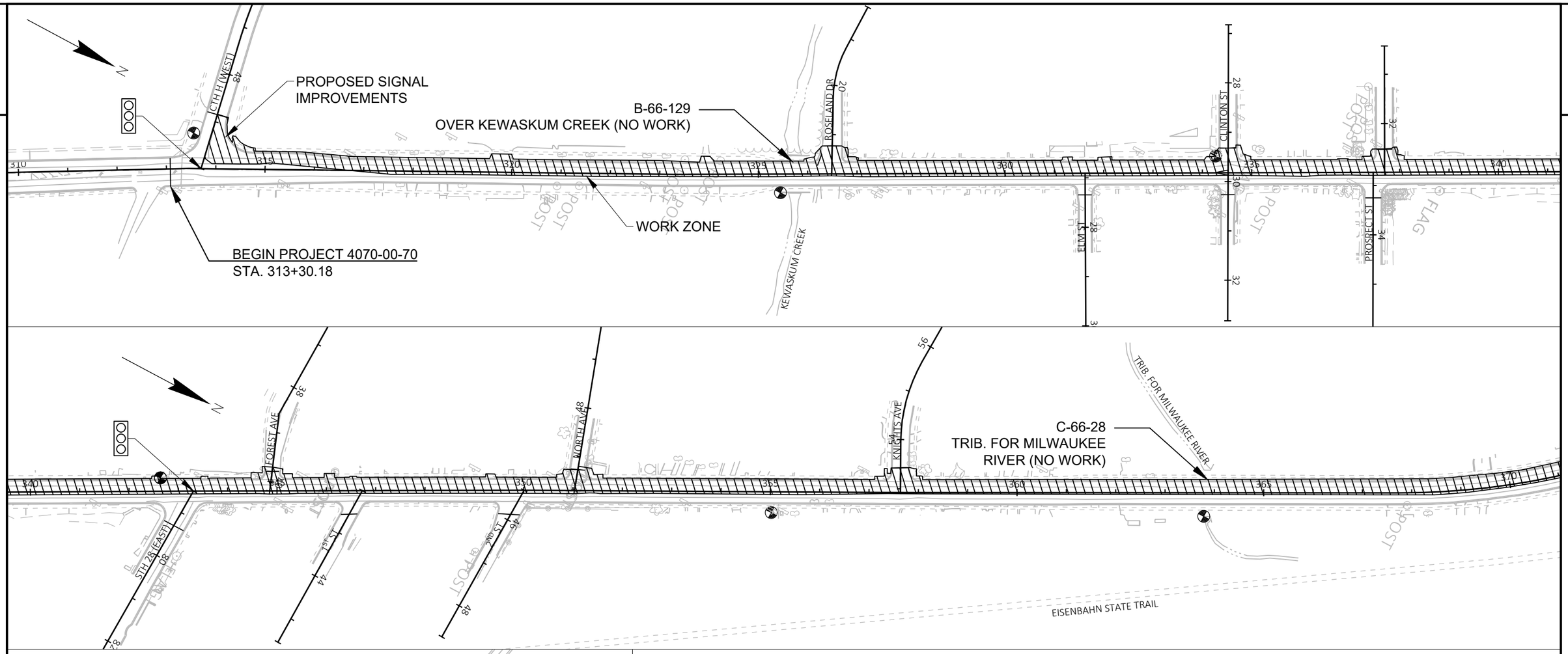
STH 28

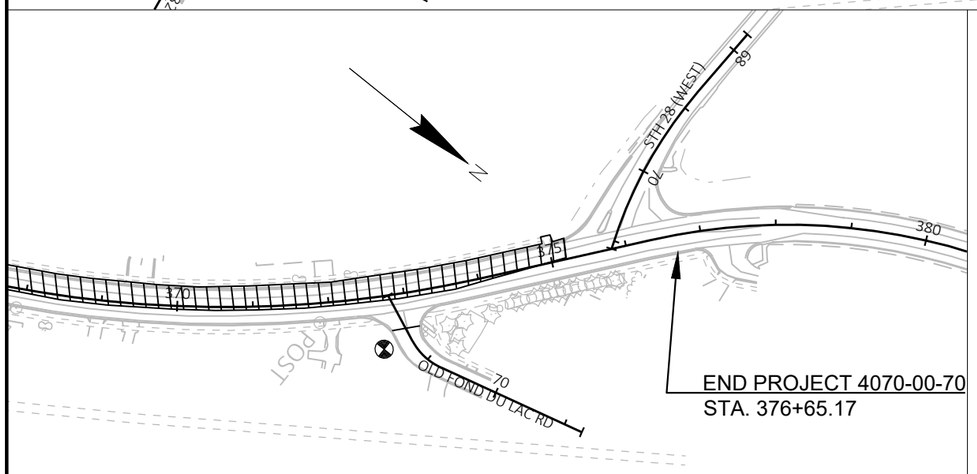
N

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 130	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - Sheet11

PLOT DATE : 7/31/2023 4:57 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT



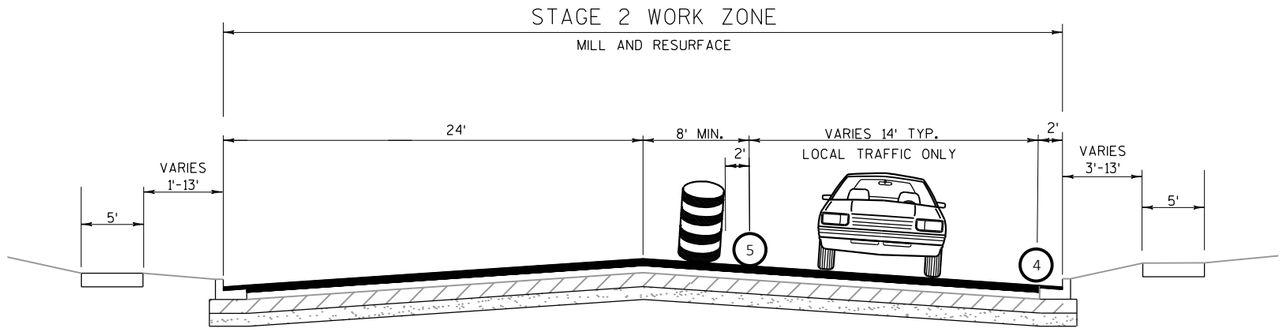


CONSTRUCTION: MILL AND OVERLAY SOUTHBOUND LANES. CONSTRUCT OUTSIDE CURBS, SIDEWALKS AND CURB RAMPS ON THE SOUTHBOUND SIDE OF USH 45

TRAFFIC: DETOUR ALL TRAFFIC AND MAINTAIN 1 LANE OPEN SOUTHBOUND FOR LOCAL TRAFFIC ONLY. DO NOT CLOSE CONSECUTIVE INTERSECTIONS. ALTERNATE INTERSECTIONS SHALL REMAIN OPEN FOR LOCAL TRAFFIC AND PEDESTRIAN ACCOMMODATIONS.

PROJECT NO: 4070 - 00 - 70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL OVERVIEW - STAGE 2	SHEET 131	E

2



STAGE 2- NB AND SB LANES CLOSED AND DETOURED, MAINTAIN MIN 12-FOOT LANE FOR LOCAL TRAFFIC ON NB SIDE

STAGING TYPICAL SECTION
FOND DU LAC AVE

STAGE 2 NOTES

-CONSTRUCTION WORK AT INTERSECTIONS SHALL NOT CLOSE ADJACENT INTERSECTIONS.
ALTERNATE INTERSECTIONS SHALL REMAIN OPEN FOR LOCAL TRAFFIC AND PEDESTRIAN ACCOMMODATIONS.

2

END ROAD WORK
G20-2A
48"X24"

SEE DETOUR SIGNING AND STANDARD DETAIL DRAWINGS FOR ADDITIONAL SIGNAGE.

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W020-5R

W04-2R

200'

200'

TIMBLIN DRIVE

PLACE 500' SOUTH OF TIMBLIN DRIVE

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

306+00 307+00 308+00 309+00 310+00 311+00 312+00

USH 45

USH 45

312+50.00

5

4

STOP
R1-1
30"X30"

15

25'

180' TAPER

85' MIN. BUFFER

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 133	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet1

PLOT DATE : 9/11/2023 12:35 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

END ROAD WORK
G20-2A
48"X24"

W04-2L

LEFT LANE CLOSED AHEAD
W20-5SA

ROAD WORK AHEAD
W20-1A

200' 200' 200'

PLACE SIGNS 200' FROM END OF TAPER

N

180' TAPER

CTH H WEST

48+00

49+00

MIRROR TRAFFIC CONTROL FOR CONSTRUCTION OF EASTBOUND LANES

DOUBLE YELLOW (5)

ONLY
R3-5R
42"X48"

ONLY
R3-5L
42"X48"

ONE WAY
R6-2R
24"X30"

R3-2
24"X24"

266' TAPER

200'

ONE WAY
R6-2L
24"X30"

W01-4R

USH 45

313+00 314+00 315+00 316+00 317+00 318+00 319+00

319+75.00

25' (4)

50'

5 DOTTED EXTENSION PAINT

7

STOP
R1-1
30"X30"

5 DOUBLE YELLOW

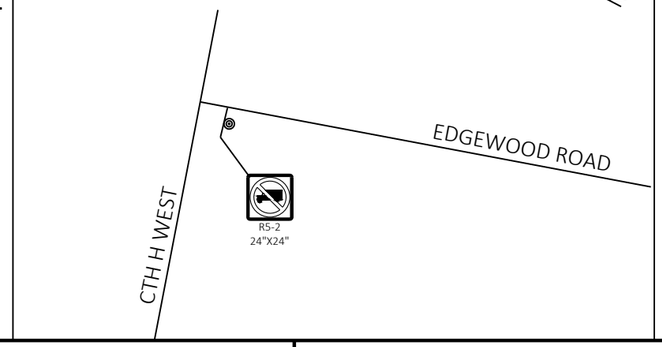
NORTH 45
ROAD CLOSED
TYPE III BARRICADE

WRONG WAY
R5-1A
36"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

INSTALL "NO TRUCKS" SIGNING ON EDGEWOOD ROAD. 1/2-MILE WEST OF THE INTERSECTION OF USH 45 AND CTH H.



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 134	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet2

PLOT DATE : 9/11/2023 12:35 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

STOP
R1-1
30"X30"

R3-2
24"X24"

END ROAD WORK
G20-2A
48"X24"

ROSELAND DR.

DOUBLE YELLOW

319+75.00

320+00

321+00

322+00

323+00

324+00

325+00

326+00

327

327+00.00

USH 45

USH 45

50'

ONE WAY
R6-2R
24"X30"

ONE WAY
R6-2L
24"X30"

WRONG WAY
R5-1A
36"X24"

ONE WAY
R6-2L
24"X30"

ONE WAY
R6-2L
24"X30"

ONE WAY
R6-2R
24"X30"

ONE WAY
R6-2L
24"X30"

ONE WAY
R6-2R
24"X30"

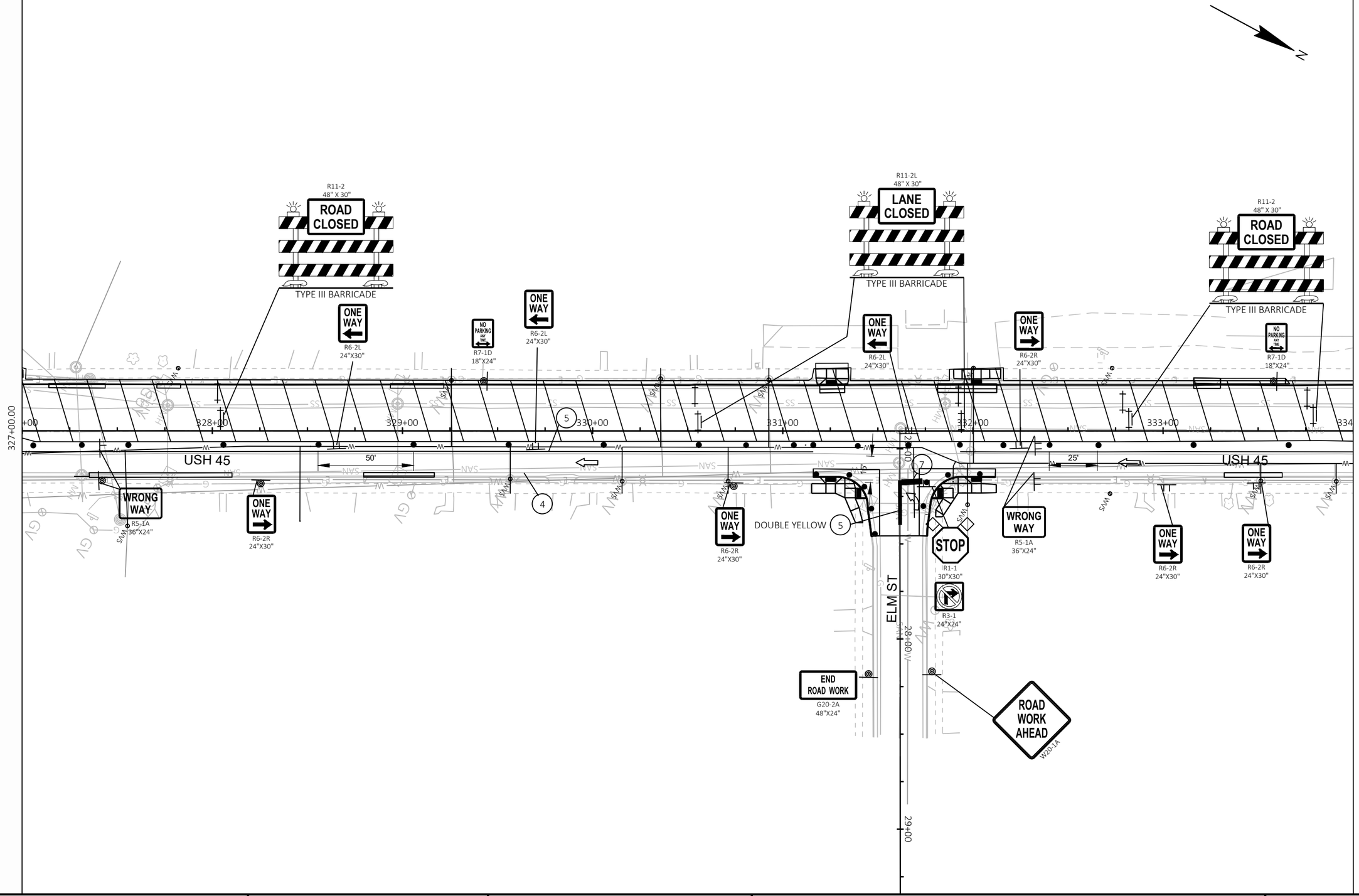
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 135	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet3

PLOT DATE : 9/11/2023 12:35 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

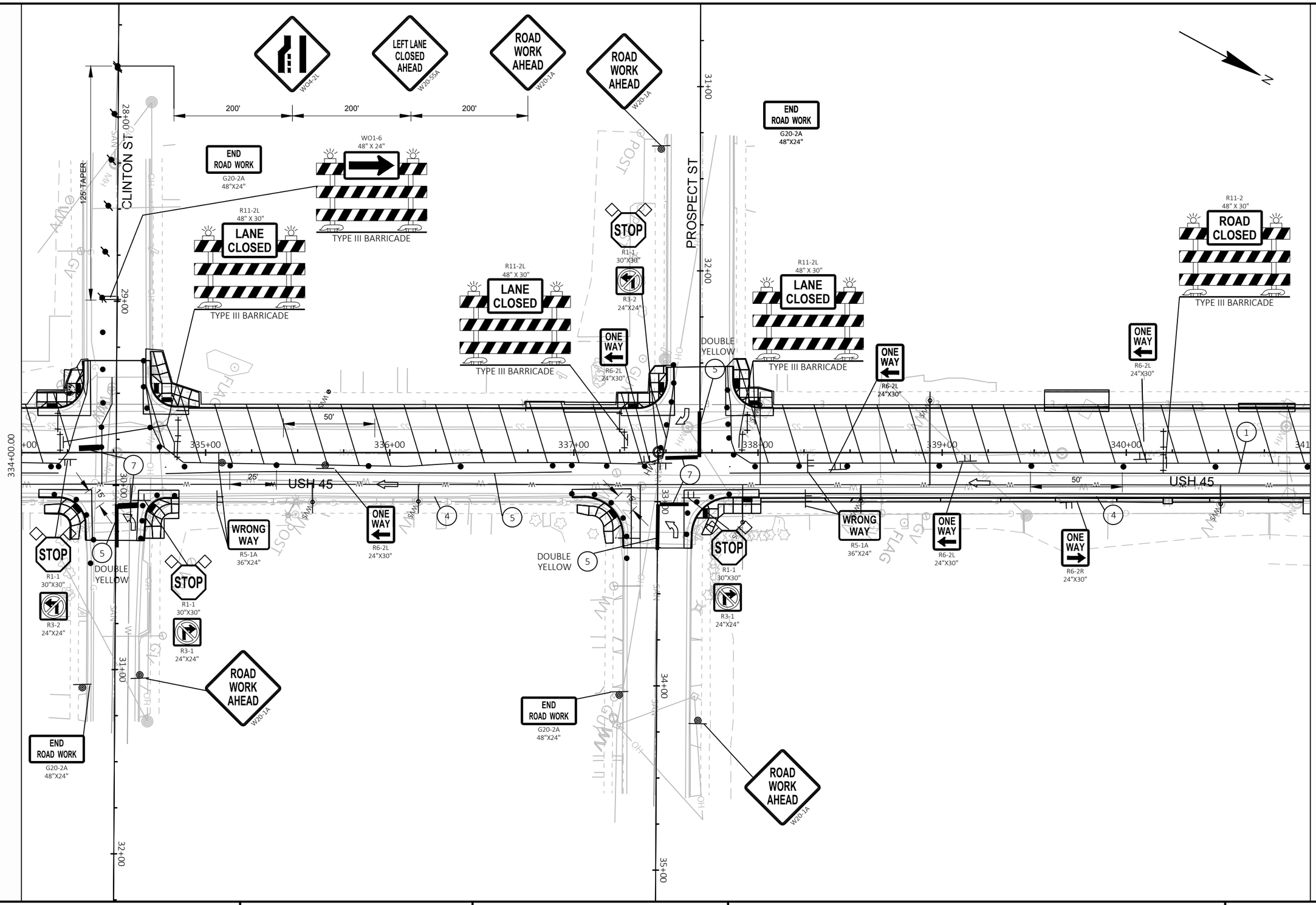


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 136	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet4

PLOT DATE : 9/11/2023 12:36 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

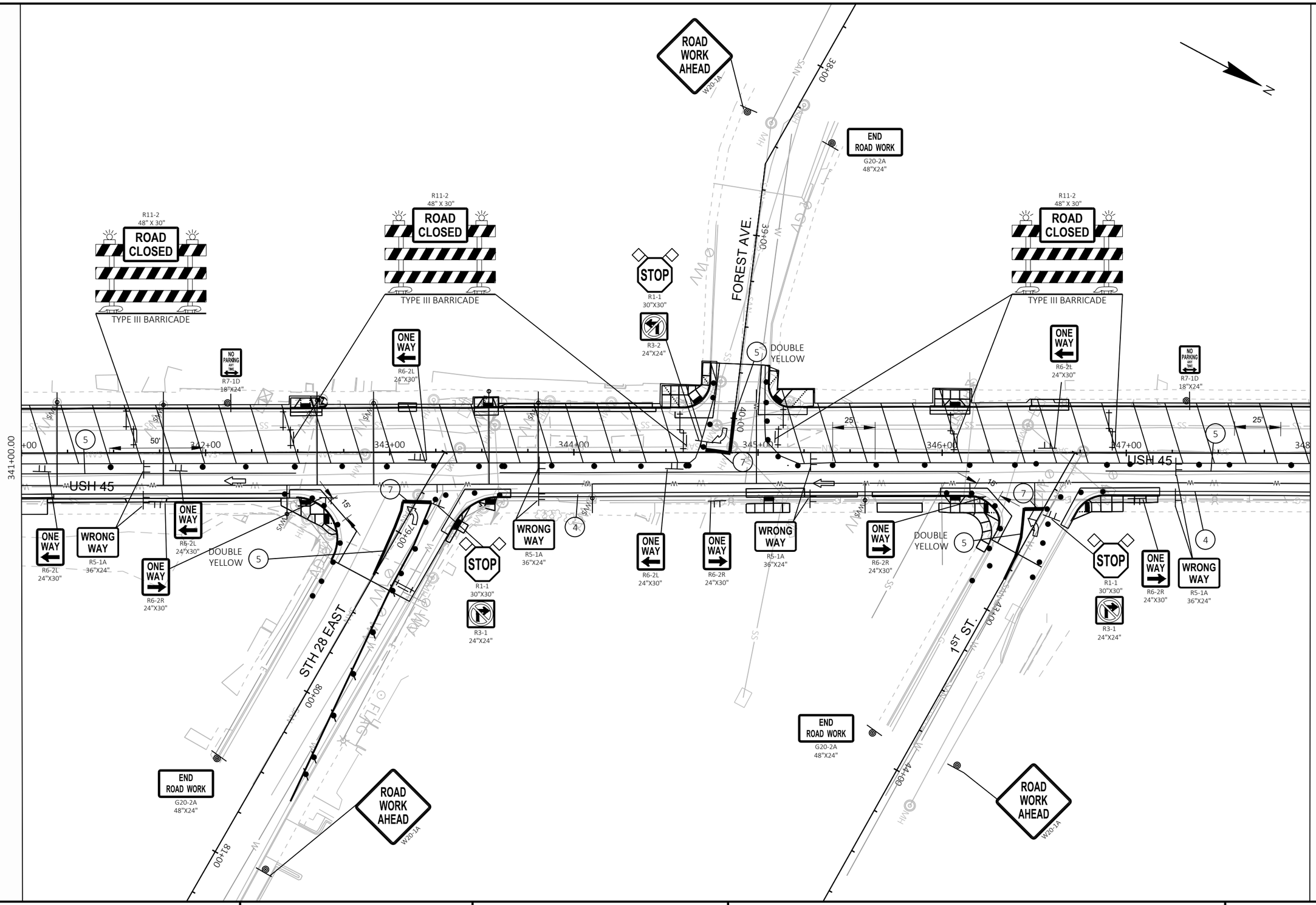


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 137	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet5

PLOT DATE : 9/11/2023 12:36 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

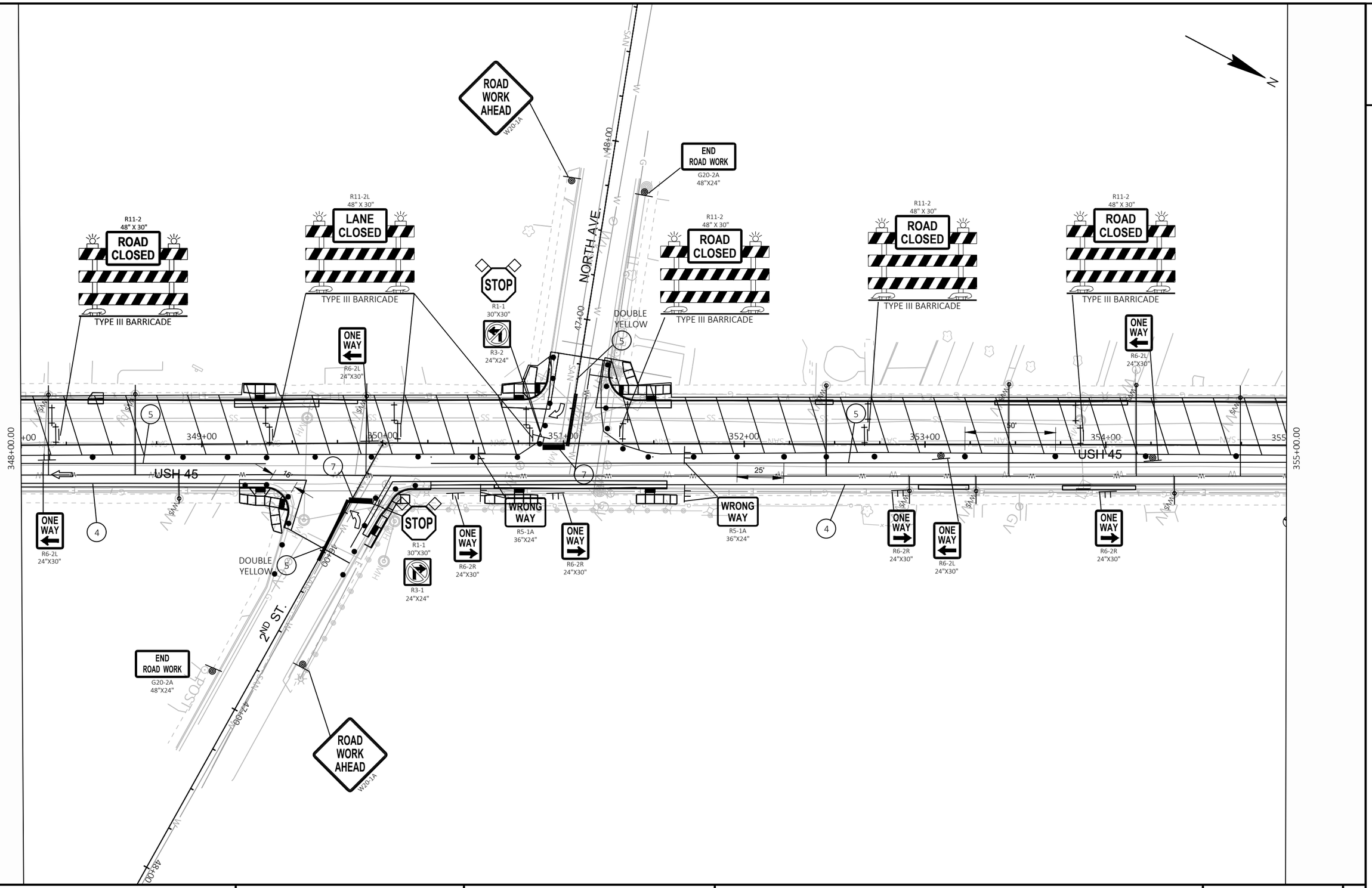


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 138	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet6

PLOT DATE : 9/11/2023 12:36 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

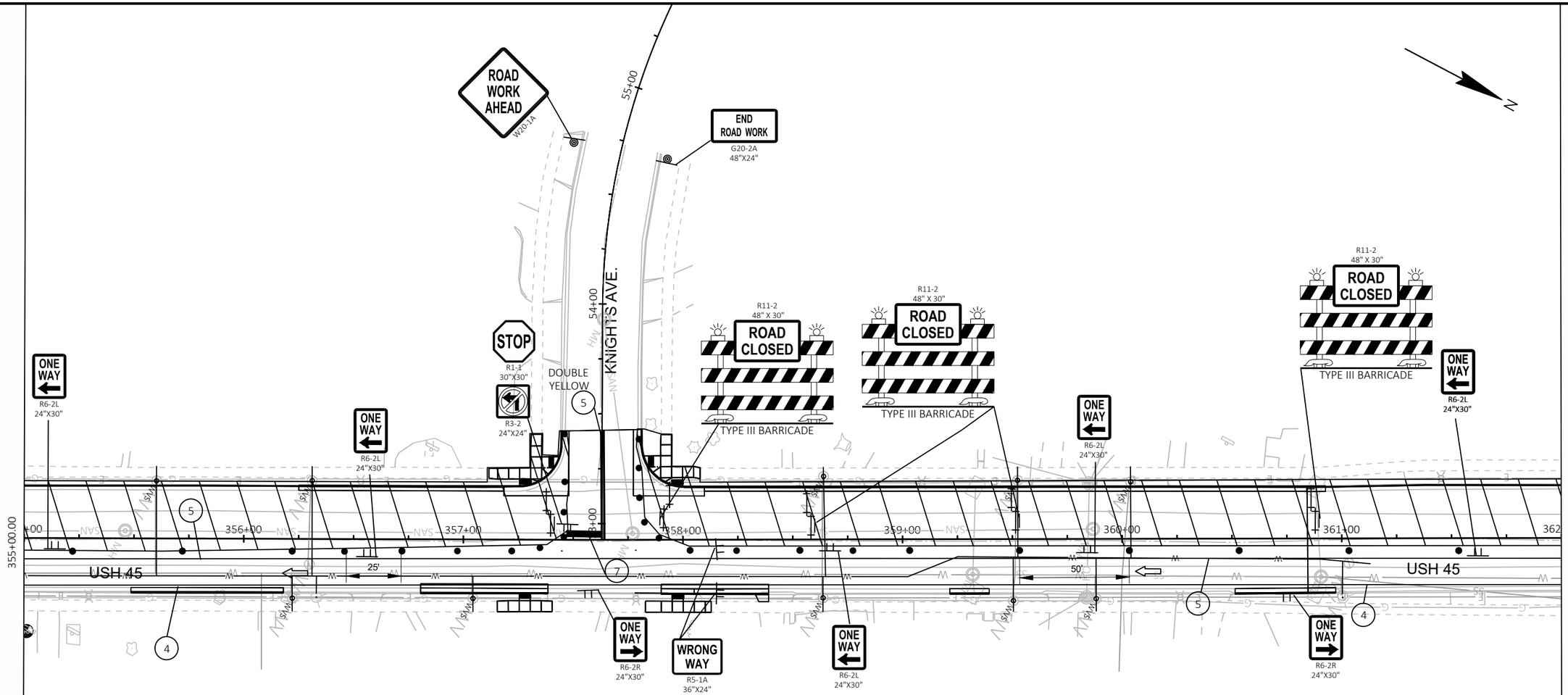


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 139	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet7

PLOT DATE : 9/11/2023 12:36 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



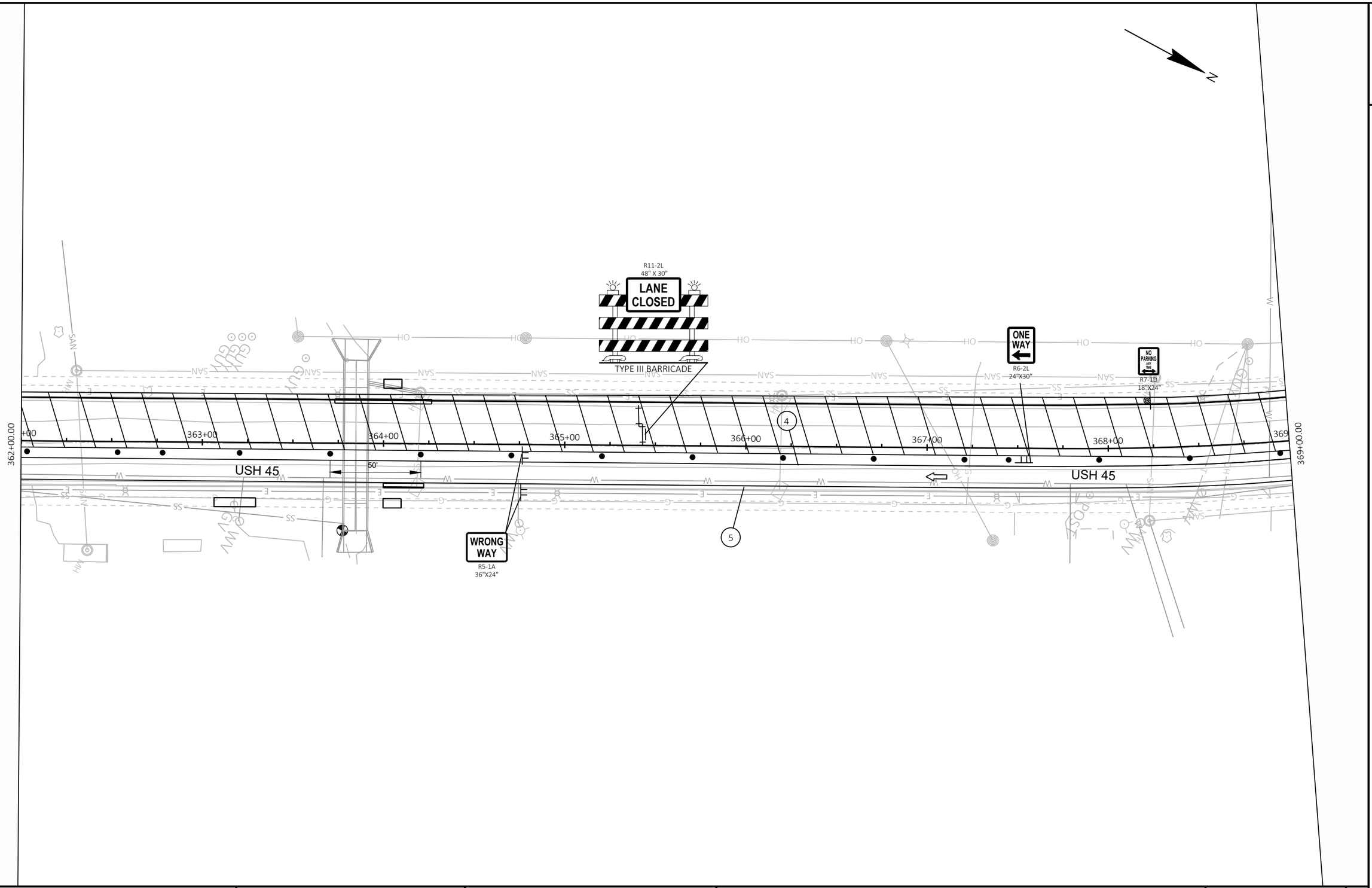
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 140	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet8

PLOT DATE : 9/11/2023 12:36 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 141	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet9

PLOT DATE : 9/11/2023 12:36 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

ONE WAY
R6-2R
24"X30"

ONE WAY
R6-2L
24"X30"

NO PARKING
R7-1D
18"X24"

ONE WAY
R6-2R
24"X30"

ONE WAY
R6-2L
24"X30"

ONE WAY
R6-2L
24"X30"

STOP
R1-1
30"X30"

ONE WAY
R6-2R
24"X30"

WRONG WAY
R5-1A
36"X24"

STOP
R1-1
30"X30"

R3-1
24"X24"

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

DOUBLE YELLOW

15'

369+00
370+00
371+00
372+00
373+00
374+00
375+00
376+00
69+00
70+00
71+00

USH 45

OLD FOND DU LAC RD.

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 142	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet10

PLOT DATE : 9/11/2023 12:36 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

SEE DETOUR SIGNING AND STANDARD DETAIL DRAWINGS FOR ADDITIONAL SIGNAGE.

COORDINATE SIGNING WITH DETOUR PLAN

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

ROAD CLOSED 500 FT
W20-30

ROAD CLOSED AHEAD
W20-3A

WO1-4R

R11-4
60"X 30"
ROAD CLOSED TO THRU TRAFFIC

TYPE III BARRICADE

WO1-6
48" X 24"

TYPE III BARRICADE

STH 28 WEST

USH 45

500'

500'

350'

133' TAPER

500'

376+00.00

377+00

378+00

379+00

380+00

381+00

382+00

383+00

383+25.00

END ROAD WORK
G20-2A
48"X24"

MAINTAIN TRAFFIC, STH 28 LEFT TURN THROUGHOUT CONSTRUCTION. USE FLAGGING AS NECESSARY TO COMPLETE REQUIRED WORK.

INSTALL "NO TRUCKS" SIGNING ON EDGEWOOD ROAD. 1/4-MILE WEST OF THE INTERSECTION OF STH 28 AND USH 41.

R5-2
24"X24"

EDGEWOOD ROAD

STH 28

N

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2	SHEET 143	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - Sheet11

PLOT DATE : 9/11/2023 12:36 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

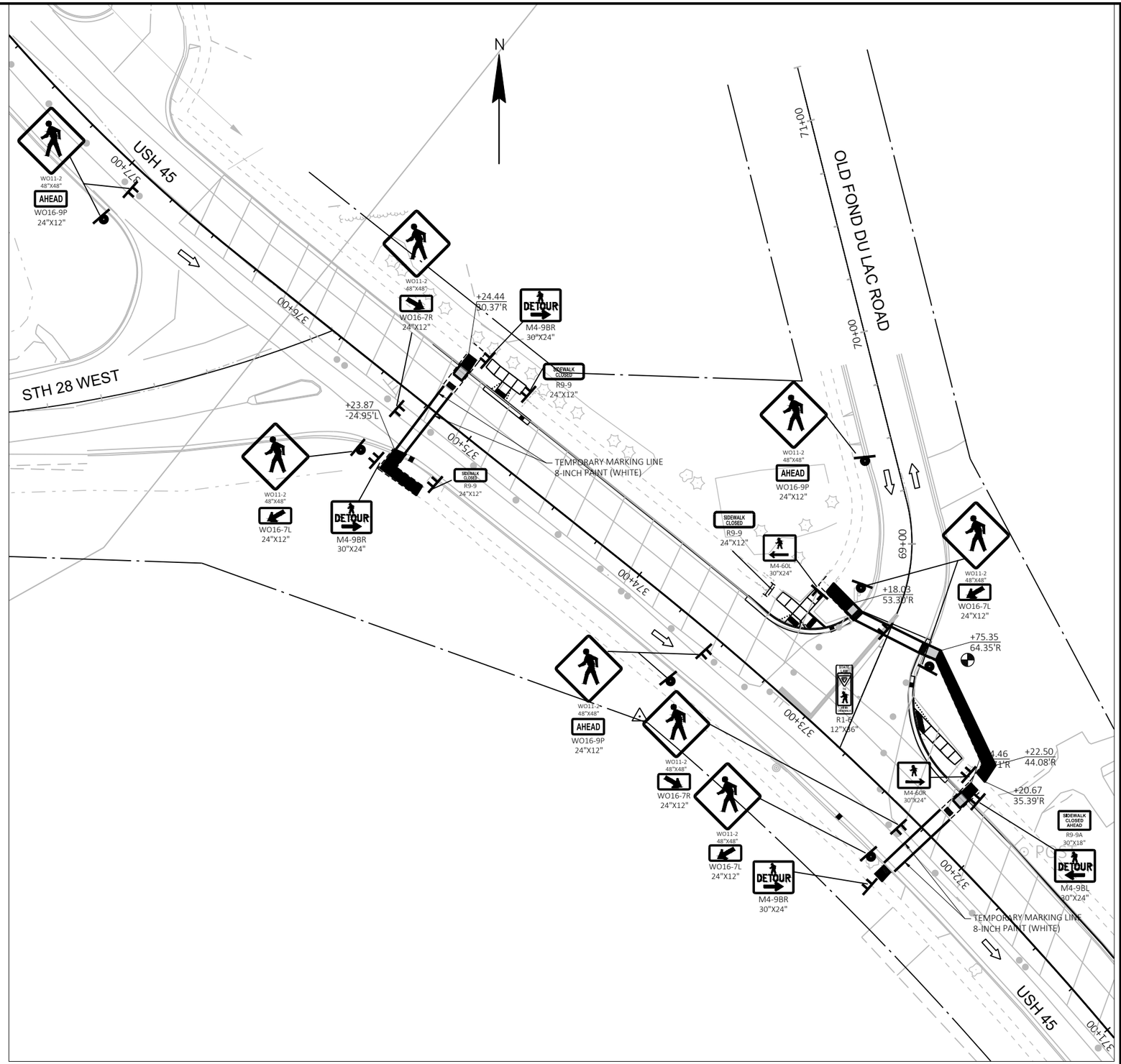
2

LEGEND

- PROPERTY LINE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY CURB RAMP (SEE SDD)
- TEMPORARY CURB RAMP WITH PLYWOOD LANDING (SEE SDD)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- PORTABLE DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE ASPHALT

NOTES:

1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. TEMPORARY PEDESTRIAN ACCOMMODATIONS SHALL BE IN PLACE PRIOR TO NEW CURB RAMP AND SIGNAL WORK BEGINNING.
3. CONSTRUCT CURB RAMPS DURING STAGE 1 OR STAGE 2 LANE CLOSURES
4. COORDINATE CURB RAMP WORK WITH SIGNAL CONSTRUCTION
5. ADDITIONAL LANE CLOSURES BEYOND WHAT IS SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER.
6. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PEDESTRIAN ACCOMMODATIONS - STAGE 1	SHEET 144	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026600-PED_S1A.DWG
LAYOUT NAME - PED1

PLOT DATE : 7/21/2023 2:49 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

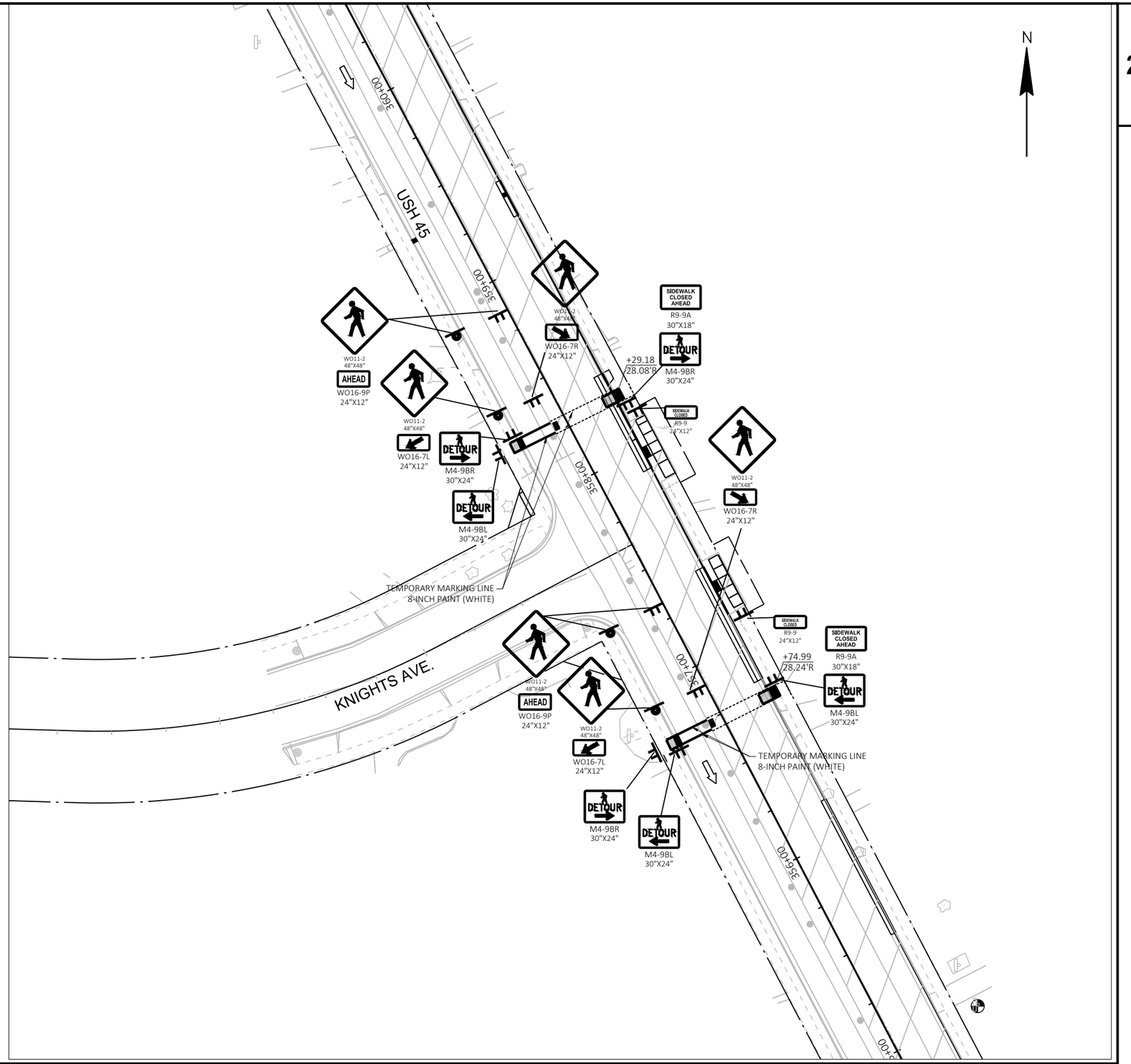
2

LEGEND

- PROPERTY LINE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY CURB RAMP (SEE SDD)
- TEMPORARY CURB RAMP WITH PLYWOOD LANDING (SEE SDD)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- PORTABLE DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE ASPHALT

NOTES:

1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. TEMPORARY PEDESTRIAN ACCOMMODATIONS SHALL BE IN PLACE PRIOR TO NEW CURB RAMP AND SIGNAL WORK BEGINNING.
3. CONSTRUCT CURB RAMPS DURING STAGE 1A OR STAGE 1B LANE CLOSURES
4. COORDINATE CURB RAMP WORK WITH SIGNAL CONSTRUCTION
5. ADDITIONAL LANE CLOSURES BEYOND WHAT IS SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER.
6. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.

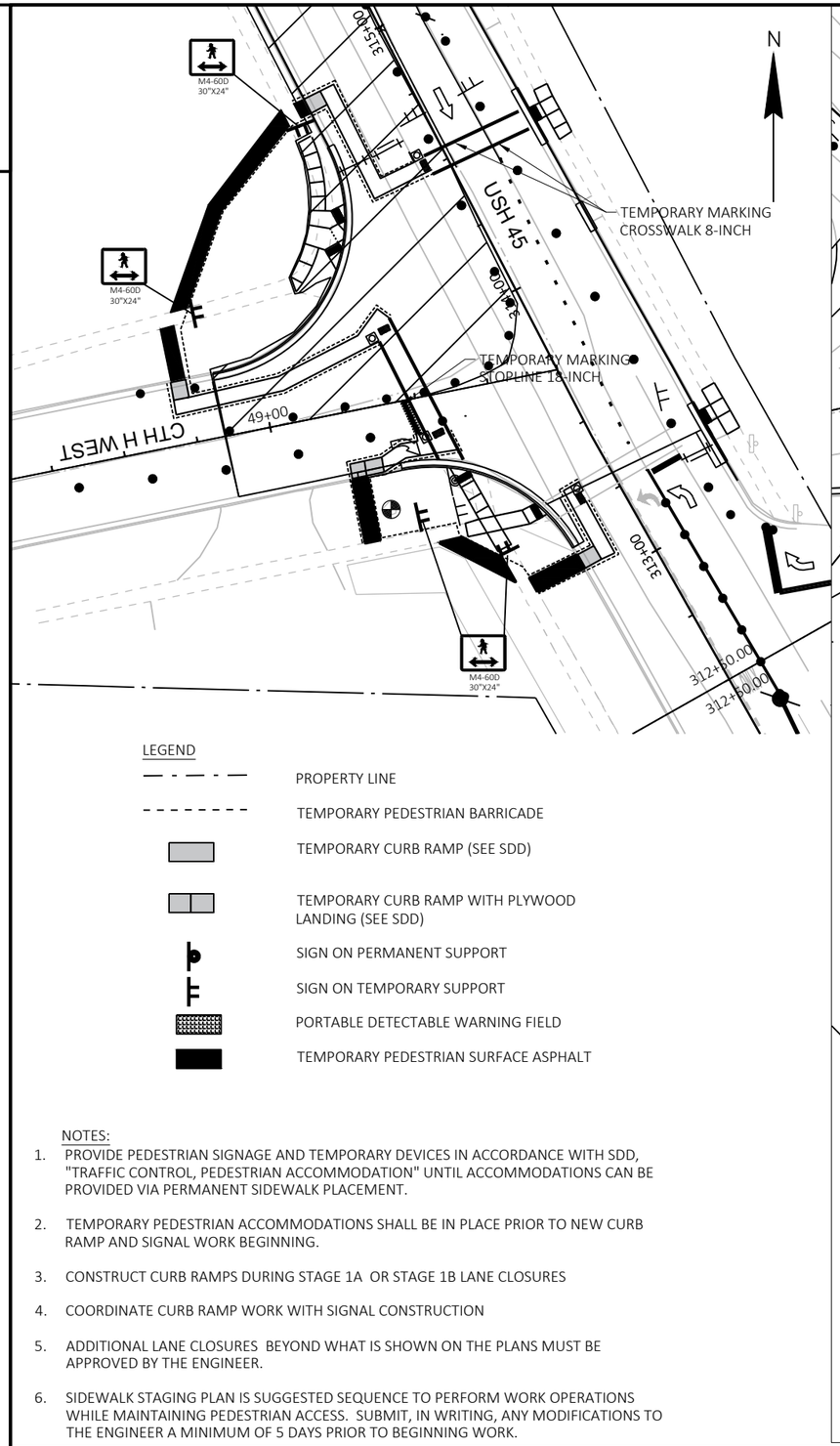


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PEDESTRIAN ACCOMMODATIONS - STAGE 1	SHEET 145	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026600-PED_S1A.DWG
LAYOUT NAME - PED2

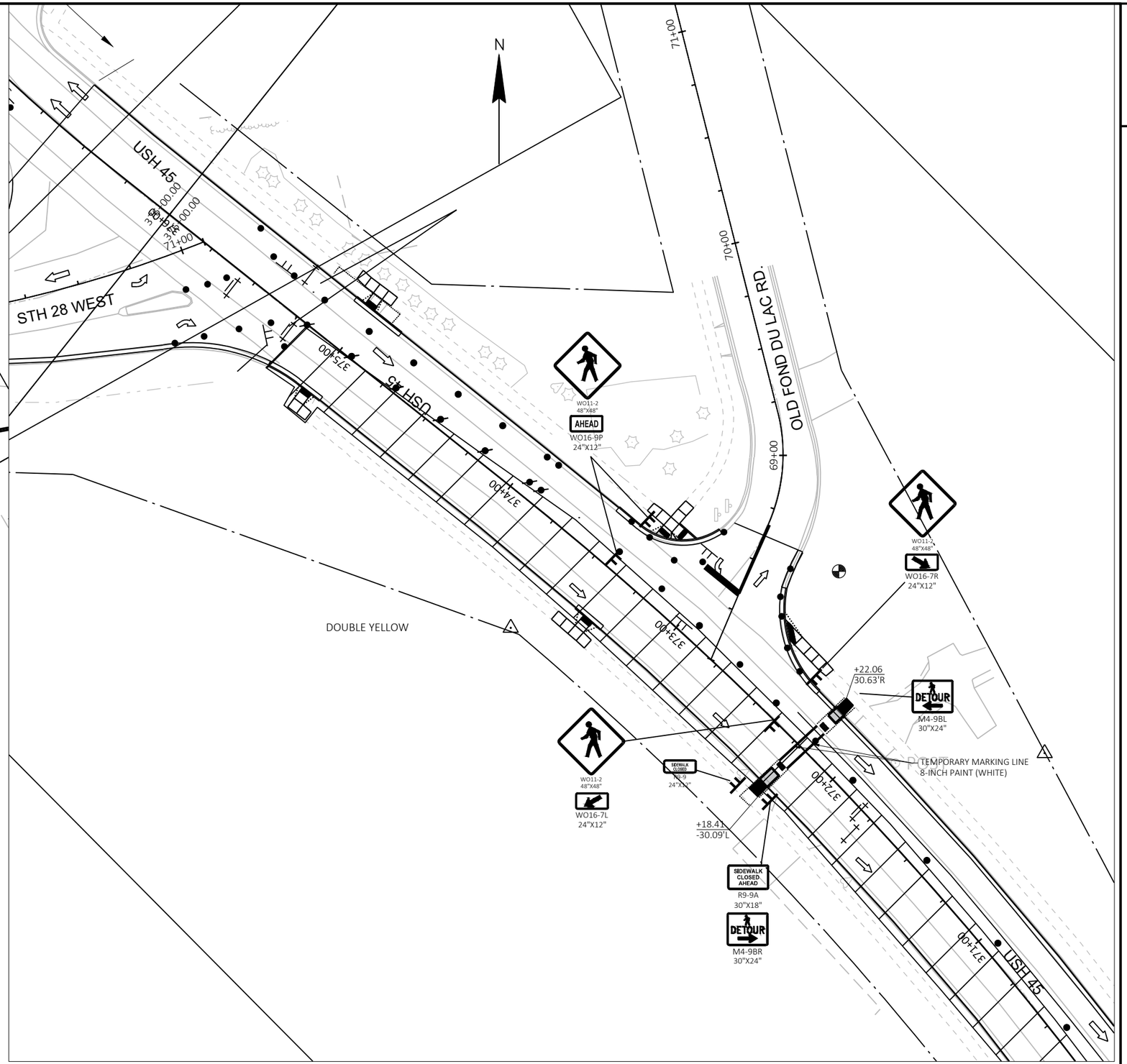
PLOT DATE : 7/21/2023 2:50 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42



NOTES:

1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. TEMPORARY PEDESTRIAN ACCOMMODATIONS SHALL BE IN PLACE PRIOR TO NEW CURB RAMP AND SIGNAL WORK BEGINNING.
3. CONSTRUCT CURB RAMPS DURING STAGE 1A OR STAGE 1B LANE CLOSURES
4. COORDINATE CURB RAMP WORK WITH SIGNAL CONSTRUCTION
5. ADDITIONAL LANE CLOSURES BEYOND WHAT IS SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER.
6. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	PEDESTRIAN ACCOMMODATIONS - STAGE 2	SHEET 146	E

2

2

N

TIMBLIN DR

CTH H

ROSELAND DR

CLINTON ST

MIDLAND AVE

ROSELAND DR

FOREST AVE

NORTH AVE

BRAATZ DR

KNIGHTS AVE

MEADOW LN

DETOUR USES
WEST SIDEWALK

SEE PED
ACCOMMODATIONS
SHEET

SEE PED ACCOMMODATIONS
SHEET

USH 45

USH 45

ELM ST

CLINTON ST

PROSPECT ST

RAILROAD ST.

PROSPECT ST

STH 28

1ST ST

2ND ST

SIGN ON TEMPORARY SUPPORT

DETOUR ROUTE

WORK AREA

M4-9BR
30"X24"

M4-9BL
30"X24"

M4-9BA
30"X24"

R9-9A
30"X18"

R9-9
24"X12"

R9-10
24"X12"

R9-10
24"X12"

NOTES: SEE STAGING PLANS OR PEDESTRIAN ACCOMMODATION PLANS FOR LOCATION OF PEDESTRIAN BARRIER AT CURB RAMP CONSTRUCTION AREAS.

PROJECT NO: 4070 - 00 - 70	HWY: USH 45	COUNTY: WASHINGTON	PEDESTRIAN DETOUR PLAN - STAGE 1	SHEET 147	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026601_PED.DWG
LAYOUT NAME - 01

PLOT DATE : 7/13/2023 4:00 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 42

2

2

N

TIMBLIN DR

CTH H

CLINTON ST

MEADOW LN

MIDLAND AVE

ROSELAND DR

FOREST AVE

NORTH AVE

BRAATZ DR

KNIGHTS AVE

ROSELAND DR

DETOUR USES
WEST SIDEWALK

SEE PED ACCOMMODATIONS
SHEET

USH 45

USH 45

SEE PED ACCOMMODATIONS
SHEET

ELM ST

CLINTON ST

PROSPECT ST

RAILROAD ST.

PROSPECT ST

STH 28

1ST ST

2ND ST

SIGN ON TEMPORARY SUPPORT

DETOUR ROUTE

WORK AREA

1 — M4-9BR 30"X24"

2 — M4-9BL 30"X24"

3 — M4-9BA 30"X24"

A — R9-9A 30"X18"

B — R9-9 24"X12"

C — R9-10 24"X12"

D — R9-10 24"X12"

NOTES: SEE STAGING PLANS OR PEDESTRIAN ACCOMMODATION PLANS FOR LOCATION OF PEDESTRIAN BARRIER AT CURB RAMP CONSTRUCTION AREAS.

PROJECT NO: 4070 - 00 - 70	HWY: USH 45	COUNTY: WASHINGTON	PEDESTRIAN DETOUR PLAN - STAGE 1	SHEET 148	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026602_PED.DWG
LAYOUT NAME - 01

PLOT DATE : 7/13/2023 4:02 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 42

2

2

N

CTH H

TIMBLIN DR

ROSELAND DR

MIDLAND AVE

CLINTON ST

MEADOW LN

ROSELAND DR

FOREST AVE

NORTH AVE

BRAATZ DR

KNIGHTS AVE

DETOUR USES EAST SIDEWALK

SEE PED ACCOMMODATIONS SHEET

USH 45

SEE PED ACCOMMODATIONS SHEET

USH 45

ELM ST

CLINTON ST

PROSPECT ST

RAILROAD ST.

PROSPECT ST

STH 28

1ST ST

2ND ST

SIGN ON TEMPORARY SUPPORT

DETOUR ROUTE

WORK AREA

1 — M4-9BR 30"X24"

2 — M4-9BL 30"X24"

3 — M4-9BA 30"X24"

A — R9-9A 30"X18"

B — R9-9 24"X12"

C — R9-10 24"X12"

D — R9-10 24"X12"

NOTES: SEE STAGING PLANS OR PEDESTRIAN ACCOMMODATION PLANS FOR LOCATION OF PEDESTRIAN BARRIER AT CURB RAMP CONSTRUCTION AREAS.

PROJECT NO: 4070 - 00 - 70	HWY: USH 45	COUNTY: WASHINGTON	PEDESTRIAN DETOUR PLAN - STAGE 2	SHEET 149	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026603_PED.DWG
LAYOUT NAME - 01

PLOT DATE : 7/13/2023 4:06 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 42

2

2

N

CTH H

TIMBLIN DR

ROSELAND DR

MIDLAND AVE

CLINTON ST

MEADOW LN

ROSELAND DR

FOREST AVE

NORTH AVE

BRAATZ DR

KNIGHTS AVE

DETOUR USES EAST SIDEWALK

USH 45

SEE PED ACCOMMODATIONS SHEET

USH 45

SEE PED ACCOMMODATIONS SHEET

ELM ST

CLINTON ST

PROSPECT ST

RAILROAD ST.

PROSPECT ST

STH 28

1ST ST

2ND ST

SIGN ON TEMPORARY SUPPORT

DETOUR ROUTE

WORK AREA

1 — M4-9BR 30"X24"

2 — M4-9BL 30"X24"

3 — M4-9BA 30"X24"

A — R9-9A 30"X18"

B — R9-9 24"X12"

C — R9-10 24"X12"

D — R9-10 24"X12"

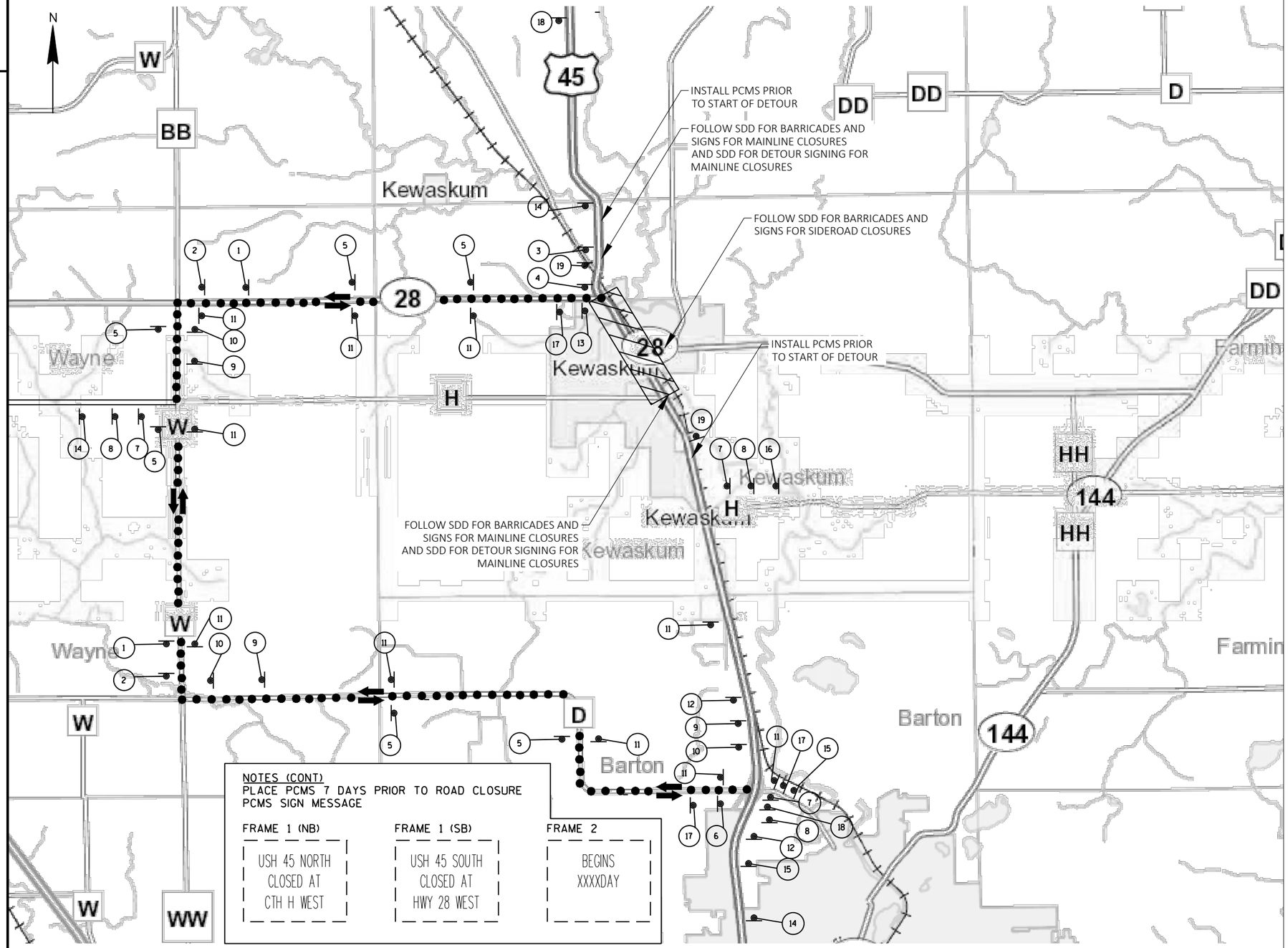
NOTES: SEE STAGING PLANS OR PEDESTRIAN ACCOMMODATION PLANS FOR LOCATION OF PEDESTRIAN BARRIER AT CURB RAMP CONSTRUCTION AREAS.

PROJECT NO: 4070 - 00 - 70	HWY: USH 45	COUNTY: WASHINGTON	PEDESTRIAN DETOUR PLAN - STAGE 2	SHEET 150	E

FILE NAME : I:\76957\C3D\40700000\SHEETSPLAN\026604_PED.DWG
LAYOUT NAME - 01

PLOT DATE : 7/13/2023 4:06 PM PLOT BY : JOSHUA MOUNT PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK ZONE
- DETOUR TRAFFIC FLOW
- USH 45 DETOUR

DETOUR M4-8 24"X12" | END DETOUR M4-8A 24"X18" | NORTH M3-1 24"X12" | SOUTH M3-3 24"X12" | DETOUR AHEAD W20-2A | MAX. 11' WIDTH W12-52 48"X48"

M06-1 21"X21" | M05-1R 21"X21" | M06-1 21"X21" | M06-1 21"X21" | M05-1L 21"X21" | M06-2 30"X30" | M1-4 24"X24"

1 DETOUR SOUTH 45 M06-1 21"X21"
2 DETOUR SOUTH 45 M05-1R 21"X21"
3 DETOUR SOUTH 45 M06-1 21"X21"
4 DETOUR SOUTH 45 M06-1 21"X21"
5 DETOUR SOUTH 45 M05-1L 21"X21"
6 END DETOUR SOUTH 45 M06-2 30"X30"
7 DETOUR NORTH 45 M06-1 21"X21"
8 DETOUR NORTH 45 M05-1R 21"X21"
9 DETOUR NORTH 45 M06-1 21"X21"
10 DETOUR NORTH 45 M06-1 21"X21"
11 DETOUR NORTH 45 M05-1L 21"X21"
12 DETOUR NORTH 45 M06-2 30"X30"
13 END DETOUR NORTH 45 M1-4 24"X24"

14 DETOUR AHEAD W20-2A 36"X36"

15 USH 45 CLOSED AT HWY H WEST FOLLOW DETOUR M4-9 24"X18"

16 USH 45 NORTH CLOSED AT HWY H WEST FOLLOW DETOUR M4-9 24"X18"

17 NORTH 45 MAX. 11' WIDTH W12-52 48"X48"

18 MAX. 11' WIDTH W12-52 48"X48" / 4 MILES AHEAD W57-52 36"X24"

19 MAX. 11' WIDTH W12-52 48"X48"

NOTES

USE SIZE 3 SIGNS ON FREEWAY.
USE SIZE 2 SIGNS ON RAMPS AND HIGHWAYS.

GENERAL NOTES FOR DETOUR SIGNING

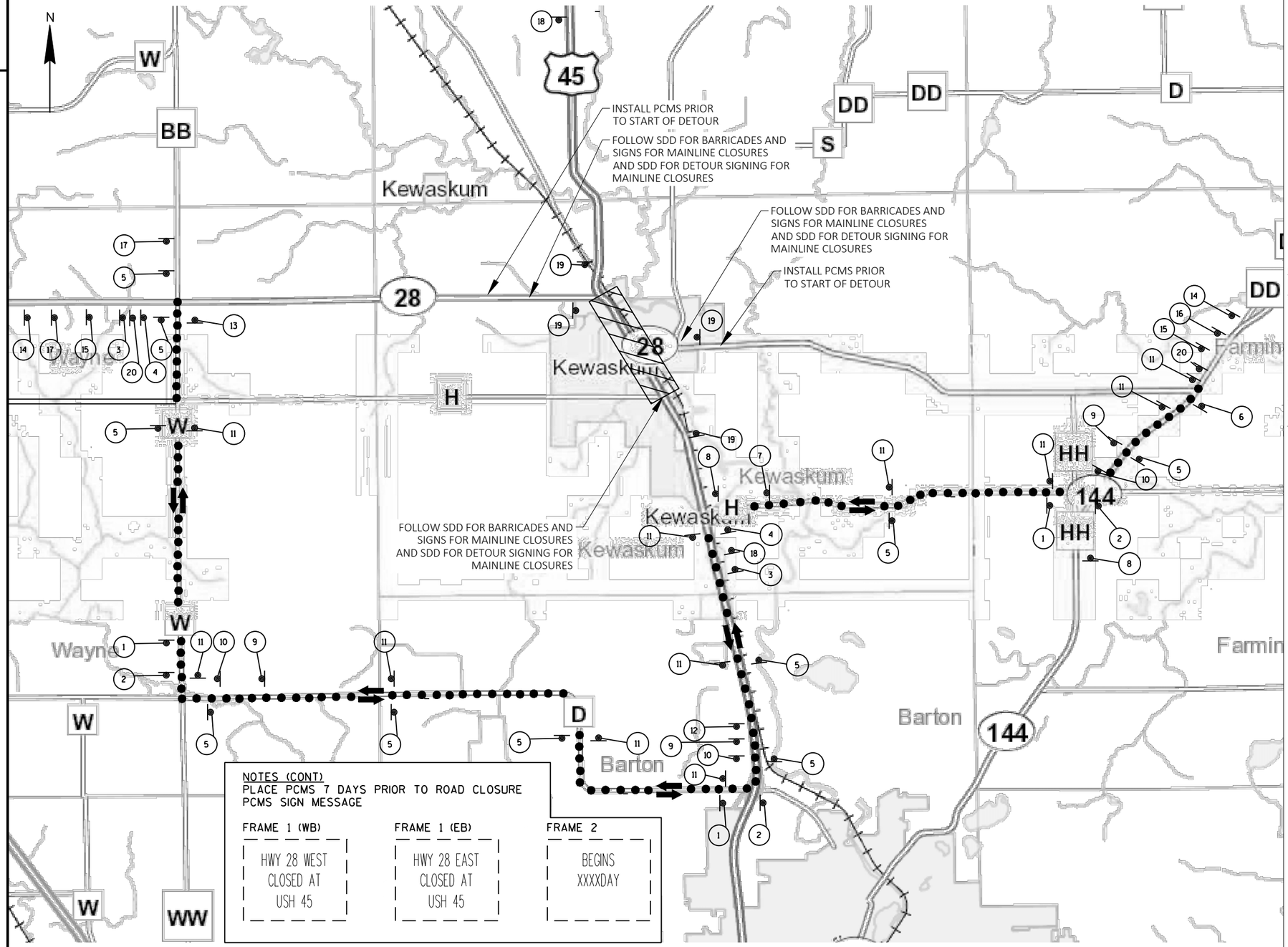
THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE TRAFFIC CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, 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.

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	DETOUR: USH 45	SHEET 151	E



NOTES (CONT)
PLACE PCMS 7 DAYS PRIOR TO ROAD CLOSURE
PCMS SIGN MESSAGE

FRAME 1 (WB)	FRAME 1 (EB)	FRAME 2
HWY 28 WEST CLOSED AT USH 45	HWY 28 EAST CLOSED AT USH 45	BEGINS XXXXDAY

LEGEND

- SIGN ON PERMANENT SUPPORT
- STH 28 DETOUR
- WORK ZONE
- DETOUR TRAFFIC FLOW

DETOUR M4-8 24"X12" | END DETOUR M4-8A 24"X18" | EAST M3-2 24"X12" | WEST M3-4 24"X12"

DETOUR AHEAD W20-2A | MAX. 11' WIDTH W12-52 48"X48"

MO6-1 21"X21" | MO5-1R 21"X21" | MO6-1 21"X21" | MO6-1 21"X21" | MO5-1L 21"X21" | MO6-2 30"X30" | M1-6 24"X24"

1 DETOUR EAST 28 ↰
2 DETOUR EAST 28 ←
3 DETOUR EAST 28 ↱
4 DETOUR EAST 28 →
5 DETOUR EAST 28 ↑
6 END DETOUR EAST 28

7 DETOUR WEST 28 ↰
8 DETOUR WEST 28 ←
9 DETOUR WEST 28 ↱
10 DETOUR WEST 28 →
11 DETOUR WEST 28 ↑
12 DETOUR WEST 28 ↗
13 END DETOUR WEST 28

14 DETOUR AHEAD

15 DETOUR AHEAD USH 45 / STH 28 USE DETOURS

16 STH 28 WEST CLOSED AT USH 45 FOLLOW DETOUR

17 STH 28 EAST CLOSED AT USH 45 FOLLOW DETOUR

18 MAX. 11' WIDTH W12-52 + 0.4 MILES AHEAD W57-52 36"X24"

19 MAX. 11' WIDTH W12-52 48"X48"

20 NORTH 45 + MAX. 11' WIDTH W12-52 48"X48"

NOTES

USE SIZE 3 SIGNS ON FREEWAY.
USE SIZE 2 SIGNS ON RAMPS AND HIGHWAYS.

GENERAL NOTES FOR DETOUR SIGNING

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

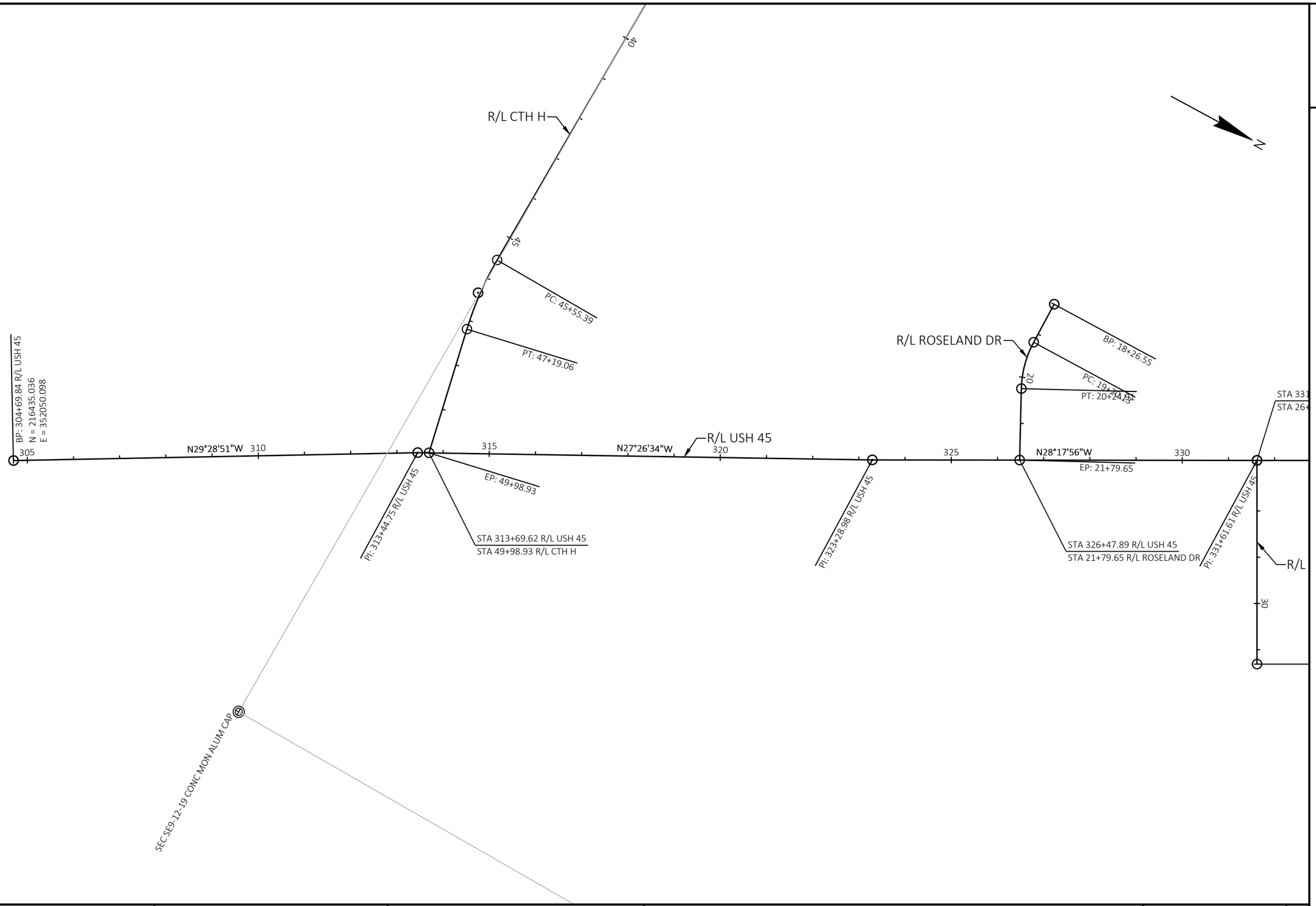
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE TRAFFIC CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

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.

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	DETOUR : STH 28	SHEET 152	E

2



PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	ALIGNMENT DETAILS	SHEET 153	E

2

N

R/L FOREST AVE
R/L NORTH AVE
R/L KNIGHTS AVE
R/L PROSPECT ST WEST
R/L CLINTON ST
R/L ELM ST
R/L PROSPECT ST EAST
R/L FIRST ST
R/L SECOND ST
R/L STH 28 EAST
R/L USH 45
/L ROSELAND DR

BP: 26+82.21
BP: 30+42.68
BP: 26+90.60
BP: 32+73.40
EP: 32+98.68
EP: 32+82.21
EP: 36+01.30
EP: 31+31.30
BP: 35+86.53
EP: 50+80.64
EP: 56+81.98
PT: 55+65.72
PC: 53+96.71
BP: 52+92.57
BP: 46+30.64
BP: 78+49.86
EP: 40+18.63
BP: 42+02.45
BP: 45+31.25
EP: 45+54.19
EP: 48+72.15
EP: 84+34.27

STA 331+61.61 R/L USH 45
STA 26+90.60 R/L ELM ST
STA 334+51.47 R/L USH 45
STA 29+82.21 R/L CLINTON ST
STA 337+68.45 R/L USH 45
STA 32+98.68 R/L PROSPECT ST WEST
STA 337+45.60 R/L USH 45
STA 32+73.40 R/L PROSPECT ST EAST
STA 343+29.85 R/L USH 45
STA 78+49.86 R/L STH 28 EAST
STA 344+84.59 R/L USH 45
STA 40+18.63 R/L FOREST AVE
STA 346+72.08 R/L USH 45
STA 42+02.45 R/L FIRST ST
STA 350+00.38 R/L USH 45
STA 45+31.25 R/L SECOND ST
STA 351+02.20 R/L USH 45
STA 46+30.64 R/L NORTH AVE
STA 357+63.03 R/
STA 52+92.57 R/L

PI: 331+61.61 R/L USH 45
PI: 38+60.72
PI: 350+00.38 R/L USH 45
PI: 357+63.03 R/L USH 45

N28°19'12"W
N28°06'34"W
N27°38'08"W

330
335
340
345
350
355
360

30
30
35
80
45
50
55

2-12-19 CONC MON BRASS CAP

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	ALIGNMENT DETAILS	SHEET 154	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 02
PLOT DATE : 10/10/2022 8:18 AM
PLOT BY : CASTRO, JOEL
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2

2

N

STA 357+63.03 R/L USH 45
STA 52+92.57 R/L KNIGHTS AVE

STA 372+78.42 R/L USH 45
STA 68+00.00 R/L OLD FOND DU LAC RD

STA 375+79.91 R/L USH 45
STA 71+10.79 R/L STH 28 WEST

R/L STH 28 WEST

R/L OLD FOND DU LAC RD

R/L USH 45

360

365

370

375

380

385

N27°56'27"W

N51°25'53"W

BP: 68+00.00

PC: 68+68.45

BP: 67+72.60

PC: 68+72.60

EP: 71+10.79

PT: 71+06.50

EP: 71+25.24

PT: 69+19.90

70

70

PI: 370+91.28 R/L USH 45

PI: 381+52.60 R/L USH 45

EP: 385+58.60 R/L USH 45
N = 223444.292
E = 348207.542

CURVE 1
PI STA = 370+91.28
Y = 222272.172
X = 348924.950
DELTA = 23°29'26" LT
D = 3°45'00"
T = 317.67'
L = 626.42'
R = 1527.90'
PC STA = 367+73.61
Y = 221991.532
X = 349073.798
PT STA = 374+00.03
Y = 222470.225
X = 348676.575
DB = N27°56'27"W
DA = N51°25'53"W

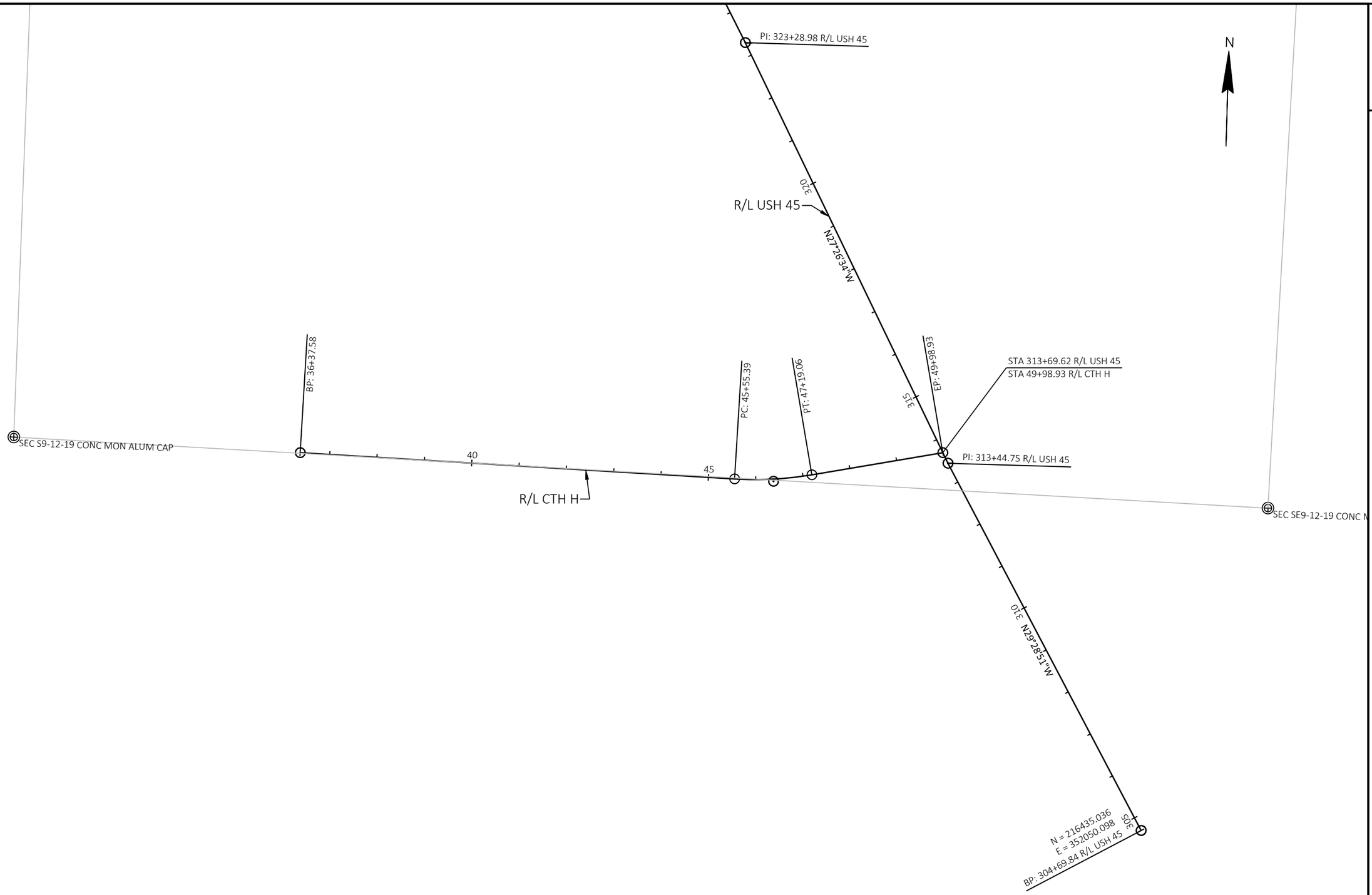
CURVE 2
PI STA = 381+52.60
Y = 222939.419
X = 348088.164
DELTA = 64°44'05" RT
D = 7°00'00"
T = 518.79'
L = 924.79'
R = 818.52'
PC STA = 376+33.81
Y = 222615.977
X = 348493.789
PT STA = 385+58.60
Y = 223444.292
X = 348207.542
DB = N51°25'53"W
DA = N13°18'12"E

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	ALIGNMENT DETAILS	SHEET 155	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 03

PLOT DATE : 10/10/2022 8:18 AM PLOT BY : CASTRO, JOEL PLOT NAME : PLOT SCALE : 1 IN:200 FT

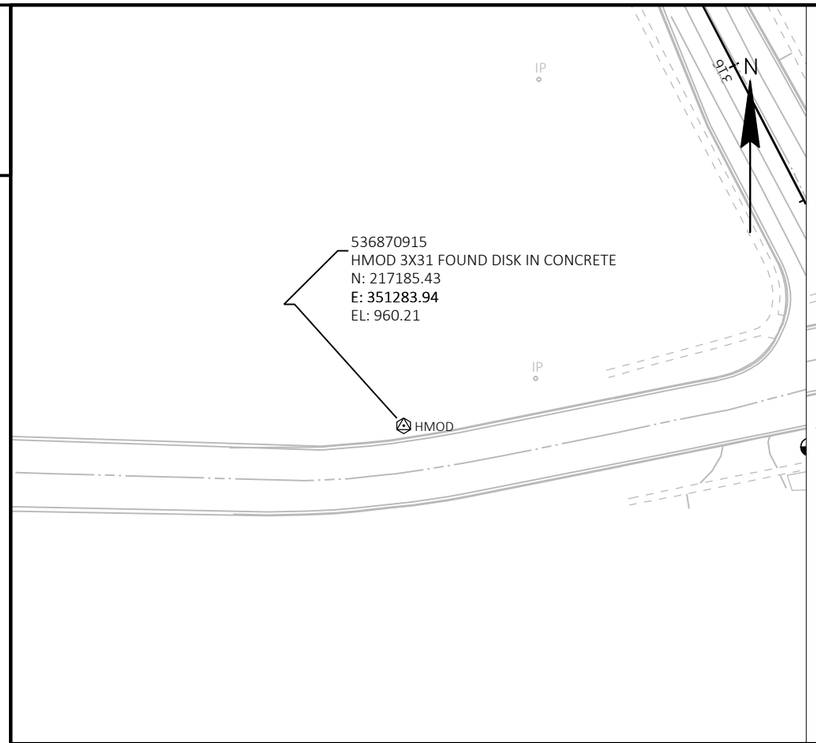
2

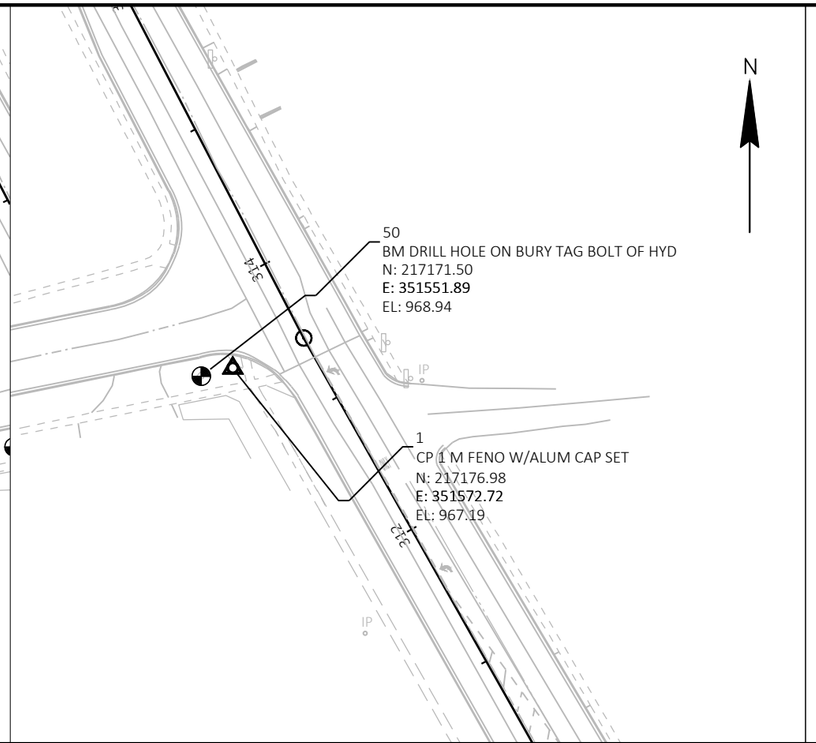


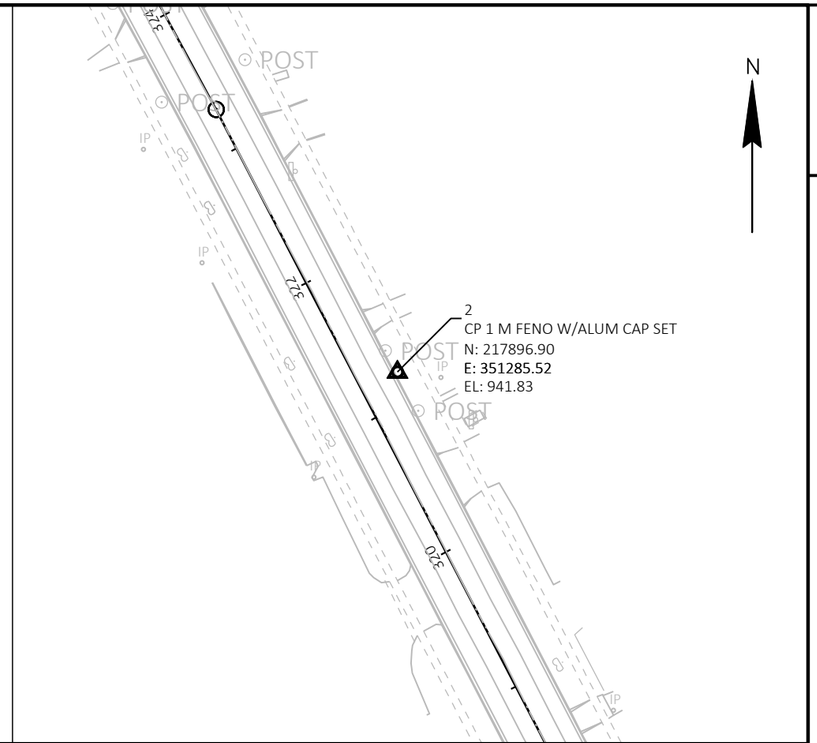
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	ALIGNMENT DETAILS	SHEET 156	E

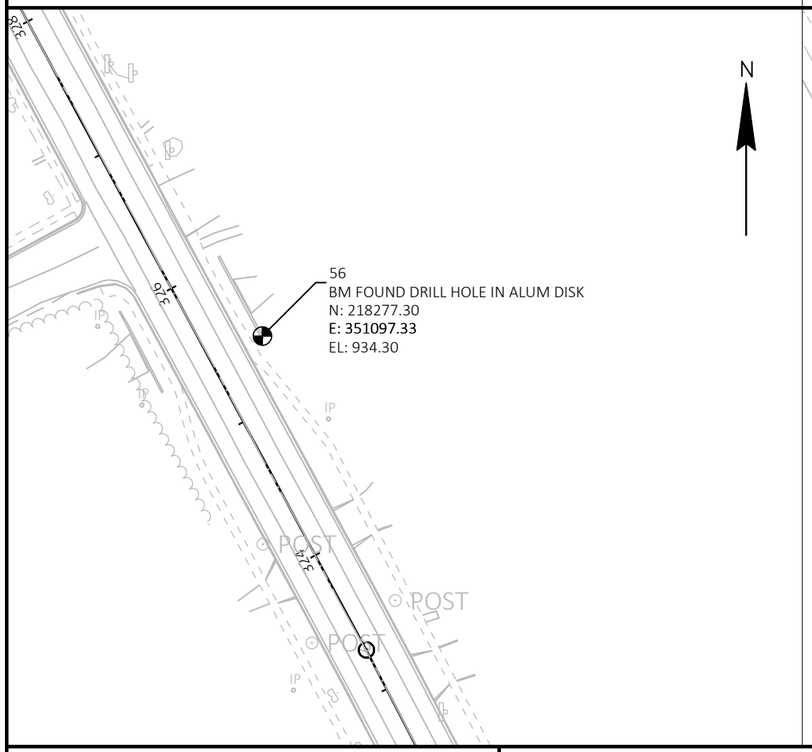
FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 04

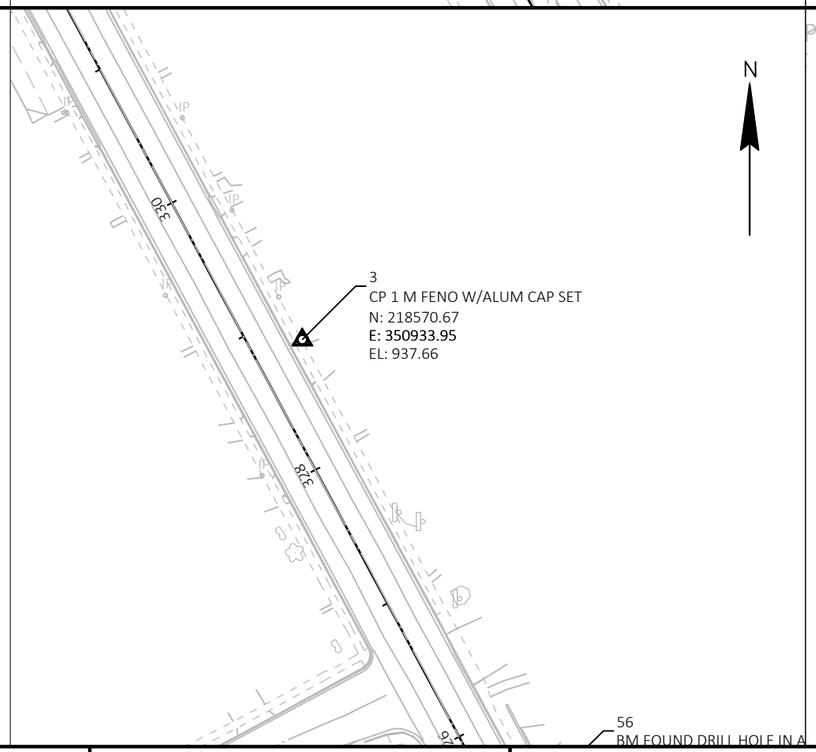
PLOT DATE : 10/10/2022 8:18 AM PLOT BY : CASTRO, JOEL PLOT NAME : PLOT SCALE : 1 IN:200 FT

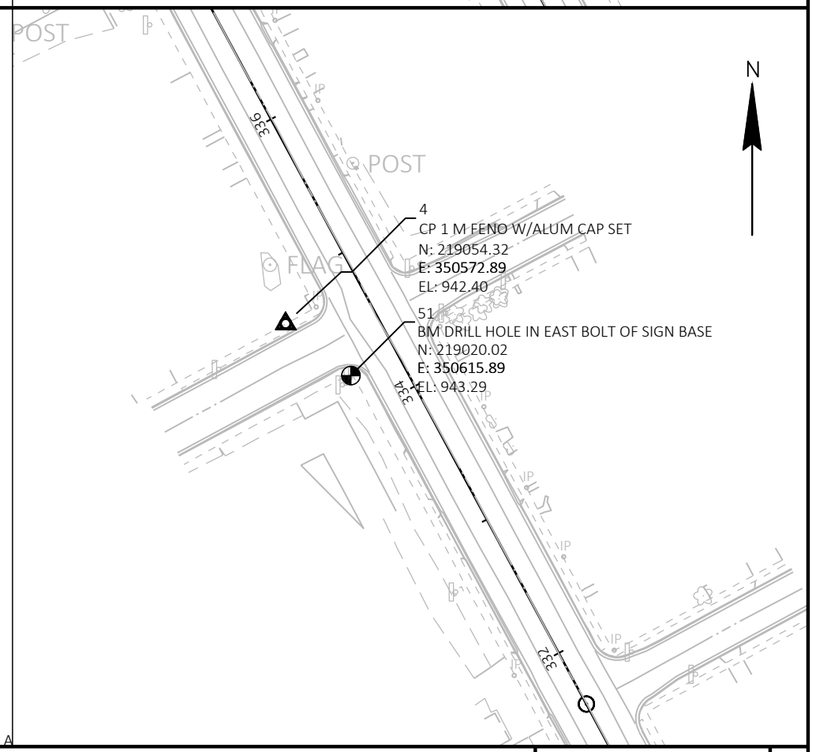








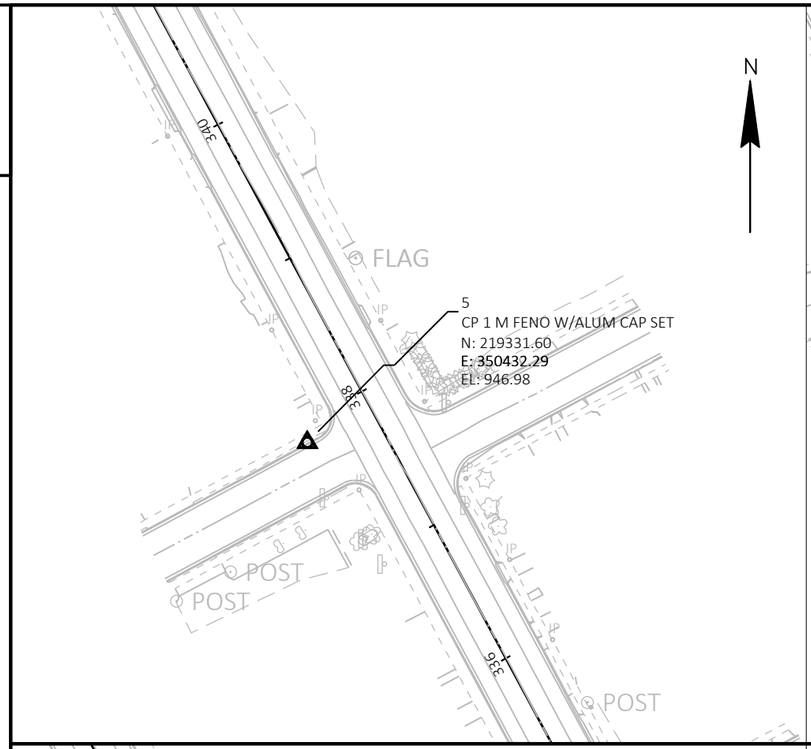


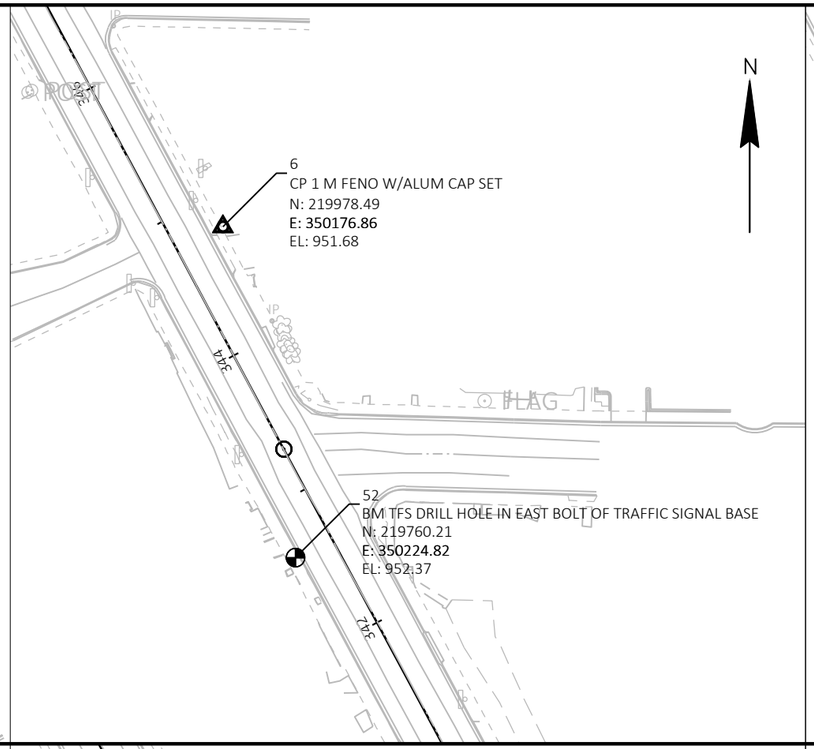


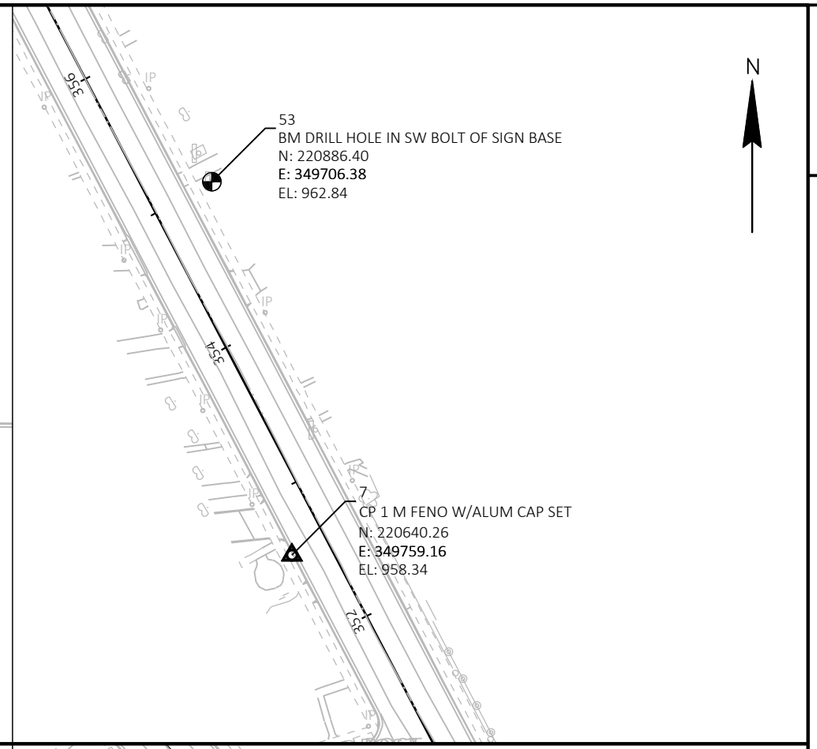
PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	ALIGNMENT LAYOUT SURVEY CONTROL	SHEET 157	E

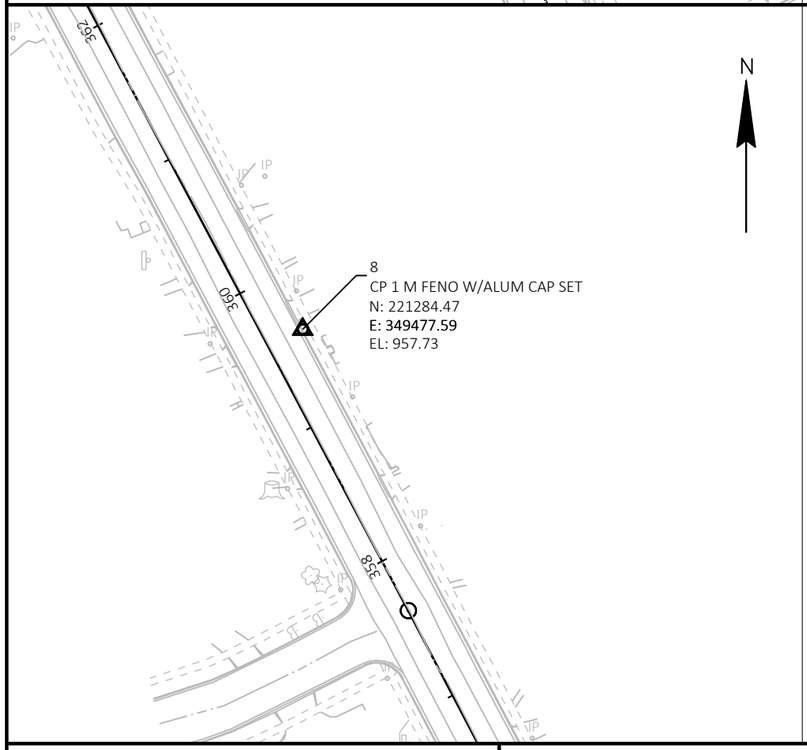
FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\027220-AD.DWG
LAYOUT NAME - 01

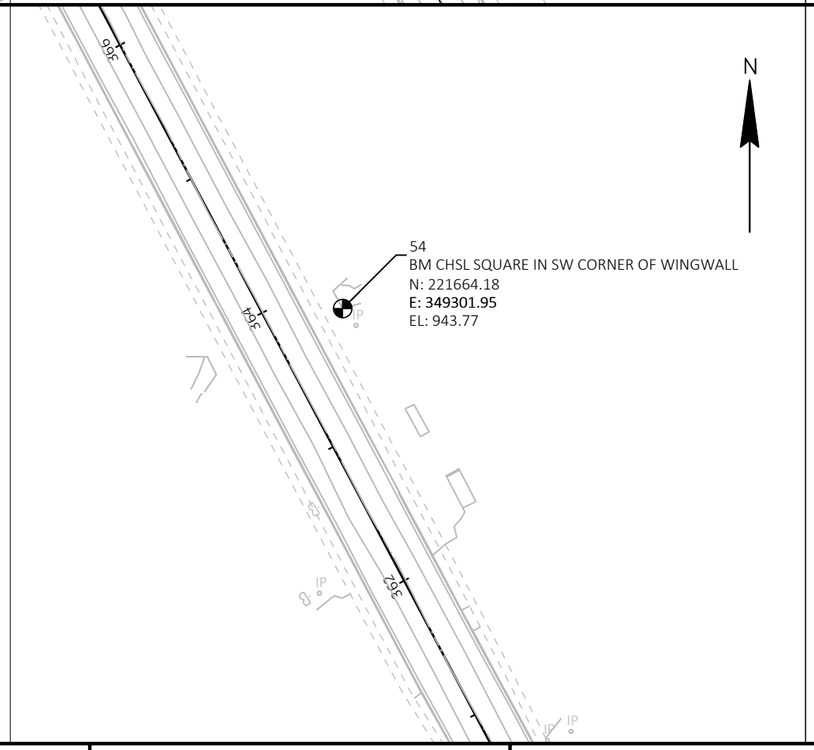
PLOT DATE : 10/24/2022 9:37 AM PLOT BY : CASTRO, JOEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

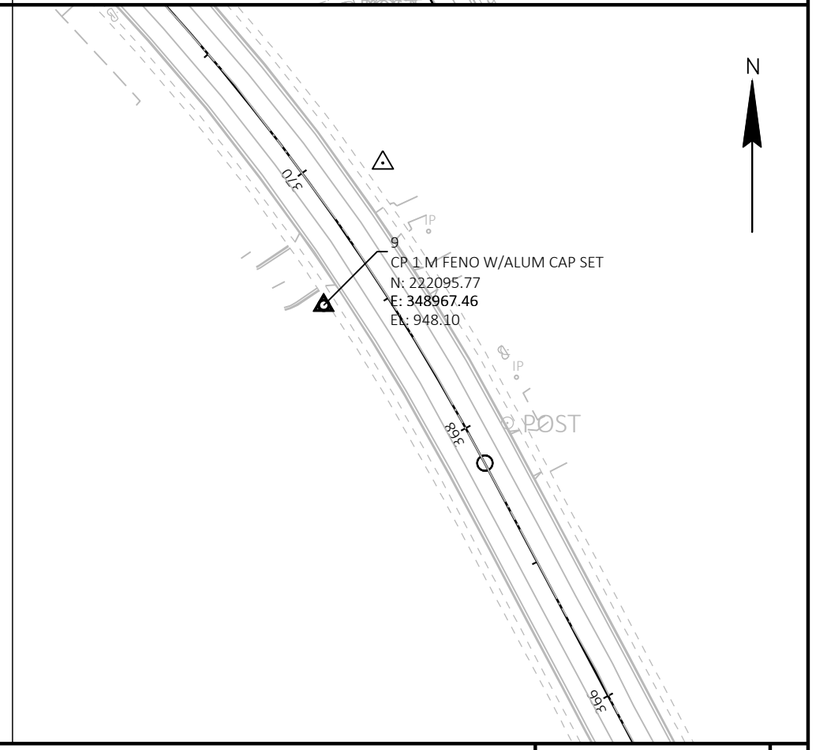








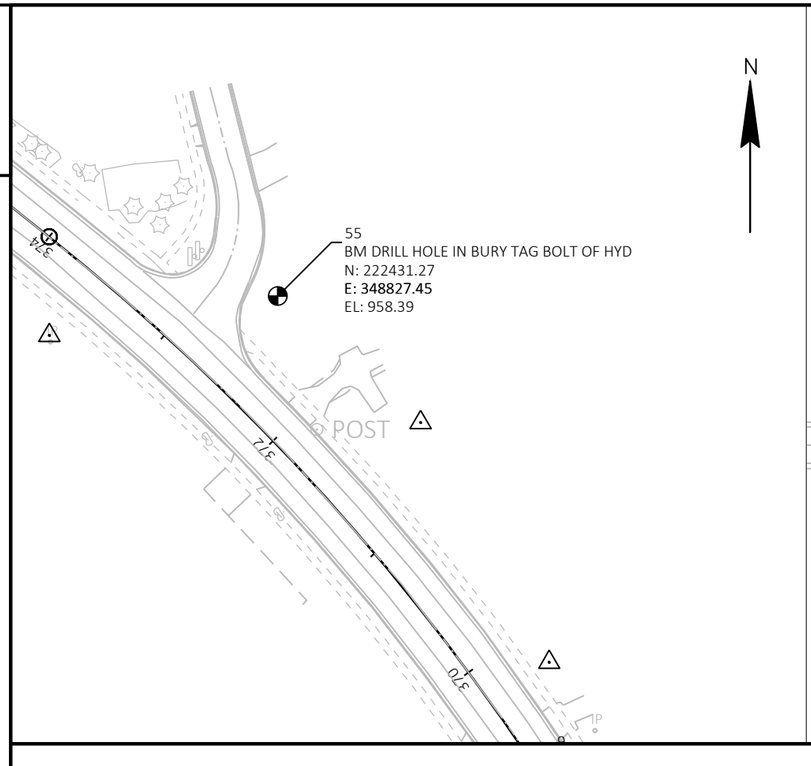


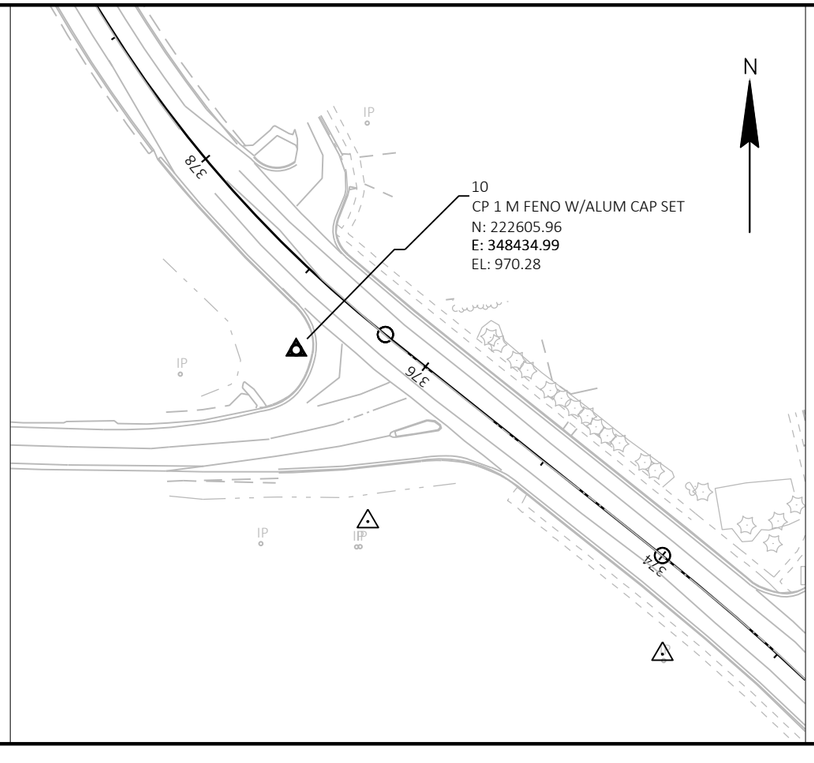


PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	ALIGNMENT LAYOUT SURVEY CONTROL	SHEET 158	E

FILE NAME : N:\PDS\C3D\40700000\SHEETSPLAN\027220-AD.DWG
LAYOUT NAME - 02

PLOT DATE : 10/24/2022 9:37 AM PLOT BY : CASTRO, JOEL PLOT NAME : PLOT SCALE : 1 IN:100 FT





2

PROJECT NO: 4070-00-70	HWY: USH 45	COUNTY: WASHINGTON	ALIGNMENT LAYOUT SURVEY CONTROL	SHEET 159	E

4070-00-70

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	204.0100	Removing Concrete Pavement	SY	720.000	720.000
0006	204.0105	Removing Concrete Pavement Butt Joints	SY	463.000	463.000
0008	204.0110	Removing Asphaltic Surface	SY	1,104.000	1,104.000
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	629.000	629.000
0012	204.0125	Removing Asphaltic Surface Milling	TON	7,014.000	7,014.000
0014	204.0150	Removing Curb & Gutter	LF	4,572.000	4,572.000
0016	204.0155	Removing Concrete Sidewalk	SY	1,090.000	1,090.000
0018	204.0195	Removing Concrete Bases	EACH	11.000	11.000
0020	204.0220	Removing Inlets	EACH	7.000	7.000
0022	204.0245	Removing Storm Sewer (size) 001. 18-Inch	LF	60.000	60.000
0024	204.0245	Removing Storm Sewer (size) 002. 24-Inch	LF	16.000	16.000
0026	204.0291.S	Abandoning Sewer	CY	1.600	1.600
0028	204.9060.S	Removing (item description) 001. Traffic Signals USH 45/CTH H & CTH H West	EACH	1.000	1.000
0030	204.9060.S	Removing (item description) 002. Loop Detector Wire & Lead-In Cable USH 45/CTH H & CTH H West	EACH	1.000	1.000
0032	204.9060.S	Removing (item description) 003. Loop Detector Wire & Lead-In Cable USH 45/STH 28 & STH 28 (Main St)	EACH	1.000	1.000
0034	205.0100	Excavation Common	CY	360.000	360.000
0036	209.2500	Backfill Granular Grade 2	TON	130.000	130.000
0038	211.0101	Prepare Foundation for Asphaltic Paving (project) 001. 4070-00-70	EACH	1.000	1.000
0040	213.0100	Finishing Roadway (project) 001. 4070-00-70	EACH	1.000	1.000
0042	305.0110	Base Aggregate Dense 3/4-Inch	TON	10.000	10.000
0044	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	321.000	321.000
0046	320.0125	Concrete Base 6-Inch	SY	589.000	589.000
0048	390.0100	Removing Pavement for Base Patching	CY	166.500	166.500
0050	390.0305	Base Patching Concrete HES	CY	153.900	153.900
0052	390.0405	Base Patching Concrete SHES	CY	12.600	12.600
0054	416.0610	Drilled Tie Bars	EACH	1,053.000	1,053.000
0056	416.0620	Drilled Dowel Bars	EACH	596.000	596.000
0058	450.4000	HMA Cold Weather Paving	TON	1,069.000	1,069.000
0060	455.0605	Tack Coat	GAL	5,202.000	5,202.000
0062	460.2000	Incentive Density HMA Pavement	DOL	6,062.000	6,062.000
0064	460.6223	HMA Pavement 3 MT 58-28 S	TON	5,362.000	5,362.000
0066	460.6224	HMA Pavement 4 MT 58-28 S	TON	3,963.000	3,963.000
0068	465.0105	Asphaltic Surface	TON	4.000	4.000
0070	465.0110	Asphaltic Surface Patching	TON	80.000	80.000
0072	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	58.000	58.000
0074	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0076	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	2.000	2.000
0078	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	2,069.000	2,069.000
0080	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	808.000	808.000
0082	601.0600	Concrete Curb Pedestrian	LF	88.000	88.000
0084	602.0410	Concrete Sidewalk 5-Inch	SF	10,247.000	10,247.000
0086	602.0420	Concrete Sidewalk 7-Inch	SF	709.000	709.000
0088	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	650.000	650.000
0090	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	18.000	18.000
0092	602.0815	Concrete Driveway 7-Inch	SY	134.000	134.000
0094	606.0200	Riprap Medium	CY	4.000	4.000

4070-00-70

Line	Item	Item Description	Unit	Total	Qty
0096	608.0248	Storm Sewer Pipe Reinforced Concrete Class II 48-Inch	LF	17.000	17.000
0098	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	68.000	68.000
0100	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	87.000	87.000
0102	611.0420	Reconstructing Manholes	EACH	1.000	1.000
0104	611.0430	Reconstructing Inlets	EACH	3.000	3.000
0106	611.0530	Manhole Covers Type J	EACH	1.000	1.000
0108	611.0603	Inlet Covers Type A-S	EACH	4.000	4.000
0110	611.0639	Inlet Covers Type H-S	EACH	7.000	7.000
0112	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
0114	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000
0116	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000
0118	611.3230	Inlets 2x3-FT	EACH	5.000	5.000
0120	611.8110	Adjusting Manhole Covers	EACH	17.000	17.000
0122	611.8115	Adjusting Inlet Covers	EACH	33.000	33.000
0124	611.8120.S	Cover Plates Temporary	EACH	18.000	18.000
0126	611.9710	Salvaged Inlet Covers	EACH	7.000	7.000
0128	618.0100	Maintenance And Repair of Haul Roads (project) 001. 4070-00-70	EACH	1.000	1.000
0130	619.1000	Mobilization	EACH	1.000	1.000
0132	624.0100	Water	MGAL	5.000	5.000
0134	625.0100	Topsoil	SY	1,171.000	1,171.000
0136	628.1504	Silt Fence	LF	535.000	535.000
0138	628.1520	Silt Fence Maintenance	LF	2,675.000	2,675.000
0140	628.1905	Mobilizations Erosion Control	EACH	12.000	12.000
0142	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0144	628.2008	Erosion Mat Urban Class I Type B	SY	64.000	64.000
0146	628.7005	Inlet Protection Type A	EACH	2.000	2.000
0148	628.7010	Inlet Protection Type B	EACH	2.000	2.000
0150	628.7015	Inlet Protection Type C	EACH	58.000	58.000
0152	628.7020	Inlet Protection Type D	EACH	3.000	3.000
0154	629.0210	Fertilizer Type B	CWT	7.000	7.000
0156	630.0160	Seeding Mixture No. 60	LB	1.000	1.000
0158	630.0200	Seeding Temporary	LB	30.000	30.000
0160	631.0300	Sod Water	MGAL	2.600	2.600
0162	631.1000	Sod Lawn	SY	1,171.000	1,171.000
0164	633.5200	Markers Culvert End	EACH	2.000	2.000
0166	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	19.000	19.000
0168	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	16.000	16.000
0170	637.2210	Signs Type II Reflective H	SF	365.650	365.650
0172	637.2215	Signs Type II Reflective H Folding	SF	31.080	31.080
0174	637.2230	Signs Type II Reflective F	SF	147.750	147.750
0176	638.2102	Moving Signs Type II	EACH	5.000	5.000
0178	638.2602	Removing Signs Type II	EACH	81.000	81.000
0180	638.3000	Removing Small Sign Supports	EACH	36.000	36.000
0182	642.5401	Field Office Type D	EACH	1.000	1.000
0184	643.0300	Traffic Control Drums	DAY	40,490.000	40,490.000
0186	643.0420	Traffic Control Barricades Type III	DAY	7,995.000	7,995.000
0188	643.0705	Traffic Control Warning Lights Type A	DAY	19,252.000	19,252.000
0190	643.0715	Traffic Control Warning Lights Type C	DAY	2,800.000	2,800.000
0192	643.0800	Traffic Control Arrow Boards	DAY	106.000	106.000

4070-00-70

Line	Item	Item Description	Unit	Total	Qty
0194	643.0900	Traffic Control Signs	DAY	69,672.000	69,672.000
0196	643.0920	Traffic Control Covering Signs Type II	EACH	76.000	76.000
0198	643.1000	Traffic Control Signs Fixed Message	SF	144.000	144.000
0200	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0202	643.3105	Temporary Marking Line Paint 4-Inch	LF	13,190.000	13,190.000
0204	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	13,780.000	13,780.000
0206	643.3205	Temporary Marking Line Paint 8-Inch	LF	397.000	397.000
0208	643.3820	Temporary Marking Stop Line Epoxy 18-Inch	LF	105.000	105.000
0210	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	129.000	129.000
0212	643.5000	Traffic Control	EACH	1.000	1.000
0214	644.1410	Temporary Pedestrian Surface Asphalt	SF	1,678.000	1,678.000
0216	644.1601	Temporary Pedestrian Curb Ramp	DAY	14.000	14.000
0218	644.1605	Temporary Pedestrian Detectable Warning Field	SF	140.000	140.000
0220	644.1810	Temporary Pedestrian Barricade	LF	2,473.000	2,473.000
0222	645.0120	Geotextile Type HR	SY	27.000	27.000
0224	646.2020	Marking Line Epoxy 6-Inch	LF	19,717.000	19,717.000
0226	646.4020	Marking Line Epoxy 10-Inch	LF	938.000	938.000
0228	646.5020	Marking Arrow Epoxy	EACH	16.000	16.000
0230	646.5120	Marking Word Epoxy	EACH	5.000	5.000
0232	646.6120	Marking Stop Line Epoxy 18-Inch	LF	393.000	393.000
0234	646.6466	Cold Weather Marking Epoxy 6-Inch	LF	19,717.000	19,717.000
0236	646.6470	Cold Weather Marking Epoxy 10-Inch	LF	938.000	938.000
0238	646.7120	Marking Diagonal Epoxy 12-Inch	LF	453.000	453.000
0240	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,276.000	2,276.000
0242	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	60.000	60.000
0244	646.8120	Marking Curb Epoxy	LF	38.000	38.000
0246	646.8220	Marking Island Nose Epoxy	EACH	1.000	1.000
0248	646.9000	Marking Removal Line 4-Inch	LF	2,200.000	2,200.000
0250	646.9100	Marking Removal Line 8-Inch	LF	450.000	450.000
0252	646.9300	Marking Removal Special Marking	EACH	5.000	5.000
0254	650.4000	Construction Staking Storm Sewer	EACH	3.000	3.000
0256	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	3,800.000	3,800.000
0258	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0260	650.8000	Construction Staking Resurfacing Reference	LF	6,335.000	6,335.000
0262	650.8501	Construction Staking Electrical Installations (project) 001. 4070-00-70	EACH	1.000	1.000
0264	650.9000	Construction Staking Curb Ramps	EACH	46.000	46.000
0266	650.9911	Construction Staking Supplemental Control (project) 001. 4070-00-70	EACH	1.000	1.000
0268	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	172.000	172.000
0270	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	187.000	187.000
0272	652.0700.S	Install Conduit into Existing Item	EACH	4.000	4.000
0274	652.0800	Conduit Loop Detector	LF	878.000	878.000
0276	653.0135	Pull Boxes Steel 24x36-Inch	EACH	3.000	3.000
0278	653.0140	Pull Boxes Steel 24x42-Inch	EACH	2.000	2.000
0280	653.0900	Adjusting Pull Boxes	EACH	2.000	2.000
0282	653.0905	Removing Pull Boxes	EACH	3.000	3.000
0284	654.0101	Concrete Bases Type 1	EACH	10.000	10.000
0286	654.0105	Concrete Bases Type 5	EACH	1.000	1.000
0288	654.0110	Concrete Bases Type 10	EACH	1.000	1.000
0290	654.0120	Concrete Bases Type 10-Special	EACH	1.000	1.000

4070-00-70

Line	Item	Item Description	Unit	Total	Qty
0292	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000
0294	655.0230	Cable Traffic Signal 5-14 AWG	LF	387.000	387.000
0296	655.0240	Cable Traffic Signal 7-14 AWG	LF	1,844.000	1,844.000
0298	655.0260	Cable Traffic Signal 12-14 AWG	LF	529.000	529.000
0300	655.0320	Cable Type UF 2-10 AWG Grounded	LF	546.000	546.000
0302	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	1,529.000	1,529.000
0304	655.0610	Electrical Wire Lighting 12 AWG	LF	405.000	405.000
0306	655.0700	Loop Detector Lead In Cable	LF	3,071.000	3,071.000
0308	655.0800	Loop Detector Wire	LF	2,696.000	2,696.000
0310	656.0201	Electrical Service Meter Breaker Pedestal (location) 001. USH 45/CTH H & CTH H West	EACH	1.000	1.000
0312	657.0100	Pedestal Bases	EACH	10.000	10.000
0314	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	1.000	1.000
0316	657.0322	Poles Type 5-Aluminum	EACH	1.000	1.000
0318	657.0405	Traffic Signal Standards Aluminum 3.5-FT	EACH	1.000	1.000
0320	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	4.000	4.000
0322	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	1.000	1.000
0324	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	4.000	4.000
0326	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	1.000	1.000
0328	658.0173	Traffic Signal Face 3S 12-Inch	EACH	9.000	9.000
0330	658.0174	Traffic Signal Face 4S 12-Inch	EACH	2.000	2.000
0332	658.0416	Pedestrian Signal Face 16-Inch	EACH	6.000	6.000
0334	658.5070	Signal Mounting Hardware (location) 001. USH 45/CTH H & CTH H West	EACH	1.000	1.000
0336	659.1125	Luminaires Utility LED C	EACH	3.000	3.000
0338	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	22.000	22.000
0340	661.0201	Temporary Traffic Signals for Intersections (location) 001. USH 45/CTH H & CTH H West	EACH	1.000	1.000
0342	677.0200	Install Camera Assembly	EACH	1.000	1.000
0344	690.0150	Sawing Asphalt	LF	1,625.000	1,625.000
0346	690.0250	Sawing Concrete	LF	7,984.000	7,984.000
0348	740.0440	Incentive IRI Ride	DOL	9,600.000	9,600.000
0350	SPV.0060	Special 001. Rectangular Rapid Flash Beacon System USH 45 NB North Ave Assembly	EACH	1.000	1.000
0352	SPV.0060	Special 002. Rectangular Rapid Flash Beacon System USH 45 SB North Ave Assembly	EACH	1.000	1.000
0354	SPV.0060	Special 003. Curb Ramp Grading, Shaping And Finishing	EACH	66.000	66.000
0356	SPV.0060	Special 004. Drainage Structure Repair and Cleaning	EACH	19.000	19.000
0358	SPV.0060	Special 005. Reconnect Storm Sewer	EACH	2.000	2.000
0360	SPV.0060	Special 006. Utility Line Opening	EACH	19.000	19.000
0362	SPV.0060	Special 008. Install Poles Type 10	EACH	1.000	1.000
0364	SPV.0060	Special 009. Install Poles Type 10 Special	EACH	1.000	1.000
0366	SPV.0060	Special 010. Install Monotube Arms 30-Ft	EACH	1.000	1.000
0368	SPV.0060	Special 011. Install Monotube Arms 45-Ft Type 9/10 Spec Pole	EACH	1.000	1.000
0370	SPV.0060	Special 012. Install Luminaire Arms Steel 15-Ft	EACH	2.000	2.000
0372	SPV.0060	Special 013. Temporary Accessible Ped Signal System USH 45/CTH H & CTH H West	EACH	1.000	1.000
0374	SPV.0060	Special 014. Trnspt & Install State Furn Traffic Signal Cabinet USH 45/CTH H & CTH West	EACH	1.000	1.000
0376	SPV.0060	Special 015. Trnspt & Install State Furn Radar Detect Sys USH 45/CTH H & CTH H West	EACH	1.000	1.000
0378	SPV.0060	Special 016. Trnspt Traffic Signal & Inter Lighting Materials USH 45/CTH H & CTH H West	EACH	1.000	1.000
0380	SPV.0060	Special 017. Trnspt & Install State Furn Audible Ped Signal System USH 45/CTH H & CTH HW	EACH	1.000	1.000

4070-00-70

Line	Item	Item Description	Unit	Total	Qty
0382	SPV.0090	Special 001. Concrete Curb and Gutter 30-Inch Type A Special	LF	1,480.000	1,480.000
0384	SPV.0090	Special 002. Marking Removal Curb Marking	LF	18.000	18.000
0386	SPV.0090	Special 003. Concrete Joint and Crack Cleaning and Repair	LF	8,888.000	8,888.000
0388	SPV.0090	Special 004. Remove, Store, and Reinstall Chain Link Fence Fabric	LF	276.000	276.000
0390	SPV.0195	Special 001. Asphaltic Repair	TON	123.000	123.000

CPM PROGRESS SCHEDULE

CATEGORY	LOCATION	108.4400 CPM PROGRESS SCHEDULE EACH
0010	USH 45	1
	TOTALS	1

REMOVING CONCRETE PAVEMENT

CATEGORY	LOCATION	STATION	-	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY
0010	USH 45 NORTHBOUND				
		313+00	-	327+00	81
		327+00	-	334+00	56
		334+00	-	342+00	129
		342+00	-	348+00	91
		348+00	-	357+00	66
		357+00	-	361+00	18
		361+00	-	372+00	--
		372+00	-	377+00	--
	NORTHBOUND SUBTOTAL				441
	USH 45 NORTHBOUND				
		313+00	-	327+00	5
		327+00	-	334+00	26
		334+00	-	342+00	104
		342+00	-	348+00	45
		348+00	-	357+00	54
		357+00	-	361+00	44
		361+00	-	372+00	--
		372+00	-	377+00	--
	NORTHBOUND SUBTOTAL				279
	TOTALS				720

REMOVING CONCRETE PAVEMENT BUTT JOINTS

CATEGORY	LOCATION	STATION	SIDE	204.0105 REMOVING CONCRETE PAVEMENT BUTT JOINTS SY
0010		328+02	LT	9
		328+46	LT	8
		328+65	RT	16
		329+53	RT	9
		329+84	RT	10
		330+67	LT	13
		331+02	LT	20
		331+11	RT	16
		331+50	LT	18
		332+28	LT	16
		333+01	LT	19
		335+15	RT	30
		336+07	RT	5
		336+51	RT	9
		340+25	LT	19
		341+12	LT	16
		341+72	LT	4
		342+74	LT	5
		343+99	RT	9
		344+62	RT	13
		346+34	LT	17
		347+10	LT	9
		348+18	RT	25
		348+21	LT	10
		348+49	LT	3
		350+18	LT	10
		352+14	RT	20
		352+31	LT	6
		352+85	LT	13

REMOVING CONCRETE PAVEMENT BUTT JOINTS CONTINUED

CATEGORY	LOCATION	STATION	SIDE	204.0105 REMOVING CONCRETE PAVEMENT BUTT JOINTS SY
0010		353+10	LT	10
		353+29	RT	3
		354+20	LT	9
		354+30	RT	11
		354+82	LT	17
		356+56	RT	9
		358+42	RT	7
		359+73	RT	10
		360+42	RT	10
	TOTALS			463

REMOVALS

CATEGORY	STAGE	STATION	-	STATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0125* REMOVING ASPHALTIC SURFACE MILLING TON
0010	STAGE 1	313+00	-	327+00	106	--	790
		327+00	-	361+00	18	--	1,383
		361+00	-	377+00	93	--	852
		SIDEROADS			--	332	209
	TOTAL		-		217	332	3,234
	STAGE 2	313+00	-	327+00	143	--	790
		327+00	-	361+00	12	--	1,383
		361+00	-	377+00	33	12	852
		SIDEROADS			--	285	429
	TOTAL		-		187	297	3,454
	UNDISTRIBUTED				700	--	--
	TOTALS				1,104	629	6,688

*QUANTITY SHOWN ELSEWHERE

REMOVING CURB AND GUTTER

CATEGORY	LOCATION	STATION	-	STATION	204.0150 REMOVING CURB AND GUTTER LF
0010	USH 45 NORTHBOUND				
	CTH H WEST SE	313+14	-	313+38	26
		314+06	-	314+16	11
	CTH H WEST NE	314+39	-	314+60	23
		315+45	-	315+89	48
		320+69	-	320+80	12
	ROSELAND SE/NE	325+96	-	326+90	103
		327+35	-	328+10	83
		328+80	-	329+17	41
	ELM SE	331+16	-	27+46 RT	63
	ELM NE	27+46 LT	-	332+12	68
		333+32	-	333+63	34
	CLINTON SE	334+09	-	30+30 RT	51
	CLINTON NE	30+30 LT	-	334+86	44
	PROSPECT SE	336+99	-	33+25 RT	55
	PROSPECT NE	33+25 LT	-	338+01	65
		338+01	-	342+46	490
	STH 28 EAST SE	342+46	-	79+31 RT	62
	STH 28 EAST NE	78+88 LT	-	342+66	50
	FOREST NE	344+94	-	345+54	66
		345+62	-	345+99	41
	1ST SE	345+99	-	42+66 RT	61
	1ST NE	42+40 LT	-	347+18	67
	2ND SE	349+21	-	45+98 RT	53
	2ND NE	45+81 LT	-	350+27	56
	NORTH SE/NE	350+27	-	351+57	143
		352+96	-	353+24	31
		353+76	-	354+16	44
		355+49	-	356+18	76

REMOVING CURB AND GUTTER CONTINUED

CATEGORY	LOCATION	STATION	-	STATION	204.0150 REMOVING CURB AND GUTTER LF
0010	USH 45 NORTHBOUND CONTINUED				
	KNIGHTS SE	356+81	-	357+39	64
	KNIGHTS NE	357+80	-	358+39	65
		359+22	-	359+40	20
		360+51	-	360+97	51
		364+00	-	364+22	24
		369+05	-	369+18	14
	OLD FDL SE	372+38	-	68+62 RT	77
	OLD FDL NE	68+55 LT	-	373+56	61
	STH 28 WEST SE	374+83	-	375+09	29
	NORTHBOUND SUBTOTAL				2372
	USH 45 SOUTHBOUND				
	CTH H WEST SW	313+15	-	49+26 RT	95
	CTH H WEST NW	48+85 LT	-	314+72	114
		316+76	-	316+81	9
		320+68	-	320+78	11
	ROSELAND SW	325+96	-	21+23 RT	62
	ROSELAND NW	21+29 LT	-	326+90	50
		327+14	-	327+44	33
		327+71	-	327+84	14
		328+94	-	329+22	31
	ELM SW	331+19	-	331+33	16
	ELM NW	331+82	-	332+13	34
		333+16	-	333+30	15
	CLINTON SW	334+09	-	29+32 RT	53
	CLINTON NW	29+32 LT	-	334+91	47
		336+95	-	337+26	34
	PROSPECT SW	336+95	-	32+52 RT	49
	PROSPECT NW	32+52 LT	-	338+08	46

3

REMOVING CURB AND GUTTER CONTINUED

CATEGORY	LOCATION	STATION	-	STATION	204.0150 REMOVING CURB AND GUTTER LF
0010	USH 45 SOUTHBOUND CONTINUED				
		339+56	-	339+91	39
		340+61	-	340+92	34
	STH 28 EAST SW	342+46	-	342+63	19
		343+05	-	343+15	11
	STH 28 EAST NW	343+46	-	343+59	14
		343+59	-	344+45	95
	FOREST SW	344+45	-	39+71 RT	56
	FOREST NW	39+70 LT	-	345+27	46
	1ST SW	345+93	-	346+15	24
		346+48	-	346+69	23
		348+37	-	348+46	10
	2ND SW	349+18	-	349+86	75
	NORTH SW	350+66	-	46+79 LT	55
	NORTH NW	46+79 RT	-	351+60	59
		352+39	-	352+49	11
		353+39	-	354+12	80
		356+25	-	357+18	102
	KNIGHTS SW	357+18	-	53+42 LT	52
	KNIGHTS NW	53+43 RT	-	358+10	55
		358+10	-	360+93	311
		363+73	-	364+26	58
		369+66	-	369+74	9
	OLD FDL NW	373+26	-	373+41	17
	STH 28 WEST SW	374+93	-	373+22	32
SOUTHBOUND SUBTOTAL					2000
UNDISTRIBUTED					200
TOTALS					4572

REMOVING CONCRETE SIDEWALK

CATEGORY	LOCATION	STATION	-	STATION	204.0155 REMOVING CONCRETE SIDEWALK SY
0010	USH 45 NORTHBOUND				
	CTH H WEST SE	313+22	-	313+40	13
		314+09	-	314+16	3
	CTH H WEST NE	314+38	-	314+57	10
	ROSELAND SE	325+94	-	326+26	21
	ROSELAND NE	325+64	-	326+98	23
	ELM SE	331+15	-	331+43	22
	ELM NE	331+79	-	332+12	20
	CLINTON SE	334+13	-	334+33	17
	CLINTON NE	334+66	-	334+86	26
	PROSPECT SE	337+02	-	337+23	18
	PROSPECT NE	337+68	-	338+02	32
		338+02	-	338+36	8
		338+50	-	338+99	11
		339+32	-	339+62	7
		339+94	-	340+45	12
		340+77	-	340+96	4
		341+14	-	341+56	9
		341+78	-	342+41	12
	STH 28 EAST SE	342+41	-	342+71	29
	STH 28 EAST NE	343+30	-	343+57	12
	FOREST NE	344+94	-	345+17	13
		345+65	-	346+89	13
	1ST SE	345+98	-	346+31	31
	1ST NE	346+74	-	347+17	26
	2ND SE	349+21	-	349+47	32
	2ND NE	349+58	-	350+15	17
	NORTH SE	350+57	-	350+86	15
	NORTH NE	351+40	-	351+63	12
	KNIGHTS SE	357+15	-	357+41	13
	KNIGHTS NE	357+83	-	358+13	17
		364+00	-	364+10	6
	OLD FDL SE	372+35	-	372+66	16
	OLD FDL NE	373+20	-	373+45	18

3

REMOVING CONCRETE SIDEWALK CONTINUED

CATEGORY	LOCATION	STATION	-	STATION	204.0155 REMOVING CONCRETE SIDEWALK SY
	USH 45 NORTHBOUND CONTINUED				
	STH 28 WEST SE	374+95	-	375+14	15
	NORTHBOUND SUBTOTAL				554
	USH 45 SOUTHBOUND				
	CTH H WEST SW	313+26	-	313+53	28
	CTH H WEST NW	314+28	-	314+78	40
	ROSELAND SW	325+93	-	326+24	24
	ROSELAND NW	326+70	-	327+00	26
	ELM SW	331+17	-	331+34	9
	ELM NW	331+90	-	332+15	13
		333+16	-	333+30	4
	CLINTON SW	334+09	-	334+33	26
	CLINTON NW	334+72	-	334+96	34
		336+74	-	336+24	16
	PROSPECT SW	337+24	-	337+50	26
	PROSPECT NW	337+88	-	338+08	24
		340+61	-	340+92	7
	STH 28 EAST SW	342+46	-	342+61	8
		343+05	-	343+15	2
	STH 28 EAST NW	343+46	-	343+59	7
		343+59	-	344+43	20
	FOREST SW	344+43	-	344+73	42
	FOREST NW	345+06	-	345+32	30
	1ST SW	345+96	-	346+15	19
		346+48		346+69	8
	2ND SW	349+23	-	349+41	9
	2ND SW	349+41	-	349+46	2
	NORTH SW	350+66	-	350+90	18
	NORTH NW	351+26	-	351+59	22
	KNIGHTS SW	357+12	-	357+41	24
	KNIGHTS NW	357+85	-	358+08	19
		364+00	-	364+10	6
	OLD FDL NW	373+26	-	373+46	11
	STH 28 WEST SW	373+93	-	374+03	11
	SOUTHBOUND SUBTOTAL				536
	TOTALS				1090

REMOVING INLETS

CATEGORY	LOCATION	STATION	OFFSET	SIDE	204.0220 REMOVING INLETS EACH
0010	CLINTON ST.	30+20	16.0'	LT	1
	FOREST AVE.	39+78	16.0'	LT	1
	FOREST AVE.	39+82	15.0'	RT	1
	2ND ST.	45+91	26.5'	RT	1
	2ND ST.	45+60	18.5'	LT	1
	NORTH AVE.	46+63	16.0'	LT	1
	NORTH AVE.	46+73	16.0'	RT	1
	TOTALS				7

REMOVING AND ABANDONING SEWER

CATEGORY	ROADWAY	STATION - STATION	OFFSET	204.0245.001 REMOVING STORM SEWER 18-INCH LF	204.0245.002 REMOVING STORM SEWER 24-INCH LF	204.0291.S ABANDONING SEWER CY	NOTES
0010	USH 45	363+92 - 364+05	32' LT	--	--	1.6	FROM NEW MH TO C-66-28
		363+11 - 363+78	38'-45' RT	60	8	--	
		364+05	32' LT	--	8	--	
	TOTALS			60	16	1.6	

EXCAVATION COMMON

CATEGORY	ROADWAY	STATION		STATION	205.0100 EXCAVATION COMMON CY
0010	USH 45 NORTHBOUND				
		313+00	-	327+00	21
		327+00	-	334+00	19
		334+00	-	342+00	49
		342+00	-	348+00	23
		348+00	-	357+00	32
		357+00	-	361+00	9
		361+00	-	372+00	3
		372+00	-	377+00	17
	NORTHBOUND SUBTOTAL				175
	USH 45 SOUTHBOUND				
		313+00	-	327+00	23
		327+00	-	334+00	13
		334+00	-	342+00	27
		342+00	-	348+00	20
		348+00	-	357+00	26
		357+00	-	361+00	28
		361+00	-	372+00	5
		372+00	-	377+00	9
	SOUTHBOUND SUBTOTAL				151
	UNDISTRIBUTED				34
	TOTALS				360

NOTE: EXCAVATION COMMON IS FOR CURB AND GUTTER, SIDEWALK NOT ADJACENT TO CURB RAMPS AND DRIVEWAYS. ALL EXCAVATION COMMON IS CONSIDERED TO BE WASTE.

PREPARE FOUNDATION FOR ASPHALT PAVING

CATEGORY	LOCATION	STATION		STATION	211.0101 PREPARE FOUNDATION FOR ASPHALT PAVING (4070-00-70) EACH
0010	USH 45				1
				TOTALS	1

FINISHING ROADWAY

CATEGORY	LOCATION	213.0100 FINISHING ROADWAY (4070-00-70) EACH
0010	USH 45	1
	TOTALS	1

3

BASE AGGREGATE ITEMS

CATEGORY	ROADWAY	STATION		STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	USH 45 NORTHBOUND					
		313+00	-	327+00	10	23
		327+00	-	334+00	--	15
		334+00	-	342+00	--	65
		342+00	-	348+00	--	20
		348+00	-	357+00	--	24
		357+00	-	361+00	--	8
		361+00	-	372+00	--	11
		372+00	-	377+00	--	8
	NORTHBOUND SUBTOTAL				10	174
	USH 45 SOUTHBOUND					
		313+00	-	327+00	--	17
		327+00	-	334+00	--	21
		334+00	-	342+00	--	31
		342+00	-	348+00	--	21
		348+00	-	357+00	--	20
		357+00	-	361+00	--	21
		361+00	-	372+00	--	13
		372+00	-	377+00	--	2
	SOUTHBOUND SUBTOTAL				0	147
	TOTALS				10	321

*ADDITIONAL QUANTITY SHOWN ELSEWHERE

3

CONCRETE BASE

CATEGORY	ROADWAY	STATION	-	STATION	320.0125 CONCRETE BASE 6-INCH SY	416.0610* DRILLED TIE BARS EACH	REMARKS
0010	USH 45 NORTHBOUND						
		313+14	-	313+30	4	6	CTH H WEST SE
		331+16	-	27+46 RT	27	28	ELM SE
		27+46 LT	-	332+12	29	30	ELM NE
		334+10	-	30+30 RT	17	22	CLINTON SE
		30+30 LT	-	334+85	15	20	CLINTON NE
		336+99	-	33+25 RT	25	26	PROSPECT SE
		33+25 LT	-	338+01	27	28	PROSPECT NE
		342+45	-	79+31 RT	25	27	STH 28 EAST SE
		78+88 LT	-	342+66	17	20	STH 28 EAST NE
		344+93	-	345+25	7	13	FOREST NE
		345+99	-	42+66 RT	16	24	1ST SE
		42+40 LT	-	347+18	17	26	1ST NE
		349+21	-	45+98 RT	24	26	2ND SE
		45+81 LT	-	350+26	14	22	2ND NE
		350+62	-	350+92	17	31	NORTH SE
		351+05	-	351+58	12	21	NORTH NE
		356+81	-	357+39	13	23	KNIGHTS SE
		357+90	-	358+05	3	6	KNIGHTS NE
NORTHBOUND SUBTOTAL					309	399	

CONCRETE BASE CONTINUED

CATEGORY	ROADWAY	STATION		STATION	320.0125 CONCRETE BASE 6-INCH SY	416.0610* DRILLED TIE BARS EACH	REMARKS
0010	USH 45 SOUTHBOUND						
		313+14	-	313+31	5.4	7	CTH H WEST SW
		331+20	-	331+33	2.9	5	ELM SW
		331+82	-	332+13	6.6	12	ELM NW
		334+09	-	29+32 RT	18.0	24	CLINTON SW
		29+32 LT	-	334+91	17.0	22	CLINTON NW
		336+95	-	32+52 RT	18.4	22	PROSPECT SW
		32+52 LT	-	338+08	17.4	21	PROSPECT NW
		342+50	-	342+60	3.8	7	STH 28 EAST SW
		343+46	-	343+59	3.0	5	STH 28 EAST NW
		344+45	-	39+71 RT	17.6	20	FOREST SW
		39+70 LT	-	345+27	15.8	22	FOREST NW
		345+93	-	346+15	4.7	9	1ST SW
		349+18	-	349+65	9.6	19	2ND SW
		350+66	-	46+79 LT	17.9	23	NORTH SW
		46+79 RT	-	351+60	23.8	28	NORTH NW
		357+18	-	53+42 LT	21.4	24	KNIGHTS SW
		53+43 RT	-	358+10	23.0	25	KNIGHTS NW
SOUTHBOUND SUBTOTAL					226	295	
				UNDISTRIBUTED	55	30	
TOTALS					589	724	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE

CONCRETE BASE PATCHING

CATEGORY	LOCATION	STATION	-	STATION	390.0100* REMOVING PAVEMENT FOR BASE PATCHING	390.0305 BASE PATCHING CONCRETE HES CY	416.0610* DRILLED TIE BARS EACH	416.062 DRILLED DOWEL BARS EACH
0010	USH 45 NORTHBOUND							
		312+81	-	313+03	6.4	6.4	20	18
		313+09	-	313+30	6.1	6.1	20	18
		327+94	-	328+00	3.7	3.7	--	40
		340+82	-	340+97	9.2	9.2	11	40
	NORTHBOUND TOTAL				25.4	25.4	51	116
	USH 45 SOUTHBOUND							
		343+58	-	344+08	16.7	16.7	38	40
		345+10	-	345+18	4.9	4.9	--	40
	SOUTHBOUND TOTAL				21.6	21.6	38	80
	UNDISTRIBUTED**				107.0	107.0	148	560
	TOTALS				153.9	153.9	237	756

*ADDITIONAL QUANTITY SHOWN ELSEWHERE

**ITEMS USED FOR BASE PATCHING LOCATIONS WHERE ADDITIONAL PATCHES IDENTIFIED AFTER MILLING AS DIRECTED BY THE ENGINEER.

CONCRETE DRIVEWAY

CATEGORY	LOCATION	STATION	-	STATION	SIDE	602.0815 CONCRETE DRIVEWAY 7-INCH SY
0010	DWY	326+26	-	326+64	RT	34
	DWY	331+17	-	331+34	LT	6
	DWY	333+30	-	333+64	LT	11
	DWY	338+36	-	338+51	RT	3
	DWY	338+99	-	339+32	RT	7
	DWY	339+56	-	339+91	LT	32
	DWY	339+62	-	339+95	RT	7
	DWY	340+45	-	340+77	RT	7
	DWY	340+96	-	341+14	RT	17
	DWY	341+57	-	341+78	RT	5
	PART DWY	348+38	-	348+46	LT	3
	PART DWY	358+33	-	358+39	RT	2
	TOTALS					134

ASPHALTIC PAVEMENT ITEMS

CATEGORY	STAGE	STATION	-	STATION	455.0605* TACK COAT GAL	460.6223* HMA PAVEMENT TYPE 3 MT 58-28 S TON	460.6224* HMA PAVEMENT TYPE 4 MT 58-28 S TON	450.4000 HMA COLD WEATHER PAVING TON	COMMENTS
0010		313+00	-	327+00	504	517	362		SB LANES
					64	108	76		SIDE ROADS
	STAGE 1	327+00	-	361+00	1,208	1,208	900		SB LANES
					77	76	82		SIDE ROADS
		361+00	-	377+00	547	562	395		SB LANES
					51	104	73		SIDE ROADS
	TOTAL				2,451	2,575	1,888		
		313+00	-	327+00	504	517	362	220	NB LANES
					--	--	--	--	SIDE ROADS
	STAGE 2	327+00	-	361+00	1,208	1,208	900	527	NB LANES
					160	143	136	70	SIDE ROADS
		361+00	-	377+00	547	562	395	239	NB LANES
					15	31	21	13	SIDE ROADS
	TOTAL				2,434	2,461	1,814	1,069	
	TOTALS				4,885	5,036	3,702	1,069	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE

ASPHALTIC PAVEMENT ITEMS

CATEGORY	ROADWAY	STATION	-	STATION	204.0125* REMOVING ASPHALTIC SURFACE MILLING TON	455.0605* TACK COAT GAL	460.6223* HMA PAVEMENT TYPE 3 MT 58-28 TON	460.6224* HMA PAVEMENT TYPE 4 MT 58-28 S TON	COMMENTS
0030	USH 45	327+00	-	361+00	326	317	326	261	VILLAGE OF KEWASKUM PARKING
	TOTAL				326	317	326	261	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE

ASPHALTIC PAVEMENT ITEMS

CATEGORY	LOCATION	STATION	SIDE	465.0105 ASPHALTIC SURFACE TON	465.0110* ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	NOTES
0010	USH 45	326+15	RT	0.9	--	--	SHARED USE PATH
		326+44	RT	--	--	12	DWY
		334+23	LT	1.0	--	--	MATCH BEHIND CURB RAMP
		334+76	RT	0.8	--	--	MATCH BEHIND CURB RAMP
		349+32	LT	0.5	--	--	MATCH BEHIND CURB RAMP
		349+35	RT	0.8	--	--	MATCH BEHIND CURB RAMP
		Driveways	LT/RT	0.0	--	46	
	TOTAL			4.0	--	58	
	UNDISTRIBUTED			--	45	--	
		TOTALS		4.0	45	58	

ASPHALTIC REPAIR

CATEGORY	LOCATION	STATION	SIDE	SPV.0195.001 ASPHALTIC REPAIR TON	NOTES
0010	CTH H WEST	49+25	RT	17	LOOP REPLACEMENT
	USH 45	316+77	LT	3	LOOP REPLACEMENT
	TOTAL			20	
	UNDISTRIBUTED			103	
	TOTALS			123	

CONCRETE CURB AND GUTTER - SPOT LOCATIONS

CATEGORY	LOCATION	STATION	-	STATION	601.0409* CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	601.0411* CONCRETE CURB AND GUTTER 30-INCH TYPE D LF
0010	USH 45 NORTHBOUND					
		314+06	-	314+16	--	11
		315+45	-	315+89	--	48
		320+69	-	320+80	--	12
		327+35	-	328+10	83	--
		328+80	-	329+17	41	--
		333+32	-	333+63	34	--
		338+01	-	342+46	490	--
		345+26	-	345+54	31	--
		345+62	-	345+99	41	--
		352+96	-	353+24	31	--
		353+76	-	354+16	44	--
		355+49	-	356+18	76	--
		357+80	-	357+90	11	--
		358+05	-	358+39	37	--
		359+22	-	359+40	20	--
		360+51	-	360+97	51	--
		364+00	-	364+22	--	24
		369+05	-	369+18	--	14
NORTHBOUND SUBTOTAL					988	110

CONCRETE CURB AND GUTTER - SPOT LOCATIONS CONTINUED

CATEGORY	LOCATION	STATION	-	STATION	601.0409* CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	601.0411* CONCRETE CURB AND GUTTER 30-INCH TYPE D LF
0010	USH 45 SOUTHBOUND					
		316+73	-	316+81	--	9
		320+68	-	320+78	--	11
		327+14	-	327+44	33	--
		327+71	-	327+84	14	--
		328+94	-	329+22	31	--
		333+16	-	333+30	15	--
		336+95	-	337+26	34	--
		339+56	-	339+91	39	--
		340+61	-	340+92	34	--
		343+05	-	343+15	11	--
		343+59	-	344+45	95	--
		346+48	-	346+69	23	--
		348+37	-	348+46	10	--
		349+65	-	349+86	23	--
		352+39	-	352+49	11	--
		353+39	-	354+12	80	--
		356+25	-	357+18	102	--
		358+10	-	360+93	311	--
		363+73	-	364+26	--	58
		369+66	-	369+74	--	9
SOUTHBOUND SUBTOTAL					867	87
UNDISTRIBUTED					200	--
TOTALS					2,055	197

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE SIDEWALK - SPOT LOCATIONS

CATEGORY	LOCATION	STATION		STATION	602.0410* CONCRETE SIDEWALK 5-INCH SF
0010	USH 45 NORTHBOUND				
		338+02	-	338+36	72
		338+52	-	338+99	98
		339+32	-	339+62	59
		339+95	-	340+45	99
		340+77	-	340+96	37
		341+14	-	341+57	83
		341+79	-	342+41	110
		345+65	-	345+89	120
		364+00	-	364+10	50
	NORTHBOUND SUBTOTAL				728
	USH 45 SOUTHBOUND				
		333+16	-	333+30	40
		336+74	-	336+24	146
		340+61	-	340+92	61
		343+05	-	343+15	20
		343+59	-	344+43	162
		346+49	-	346+69	69
		364+00	-	364+10	50
	SOUTHBOUND SUBTOTAL				548
	TOTALS				1,276

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PEDESTRIAN CURB RAMP

CATEGORY	LOCATION		601.0409* CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	SPV.0090.001 CONCRETE CURB AND GUTTER 30-INCH TYPE A SPECIAL LF	601.0411* CONCRETE CURB AND GUTTER 30-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0410* CONCRETE SIDEWALK 5-INCH SF	602.0420 CONCRETE SIDEWALK 7-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF
0010	USH 45 NORTHBOUND									
	WB CTH H									
		SE QUADRANT	14	--	10	--	106	--	10	--
		NE QUADRANT	--	--	21	--	111	--	10	--
	ROSELAND DR.									
		SE QUADRANT	--	--	47	--	232	--	10	--
		NE QUADRANT	--	--	47	--	232	--	10	--
	ELM ST.									
		SE QUADRANT	--	57	--	--	270	--	20	--
		NE QUADRANT	--	62	--	--	294	--	20	--
	CLINTON ST.									
		SE QUADRANT	--	46	--	25	189	--	10	--
		NE QUADRANT	--	40	--	--	238	--	10	--
	PROSPECT AVE.									
		SE QUADRANT	--	50	--	--	220	--	10	--
		NE QUADRANT	--	59	--	--	312	--	20	--
	EB STH 28									
		SE QUADRANT	--	56	--	--	--	258	20	--
		NE QUADRANT	--	45	--	--	--	109	20	--
	FOREST AVE.									
		NE QUADRANT	--	32	--	--	135	--	10	--
	1ST ST.									
		SE QUADRANT	--	55	--	--	335	--	20	--
		NE QUADRANT	--	61	--	--	258	--	10	--
	2ND ST.									
		SE QUADRANT	--	48	--	5	--	342	20	--
		NE QUADRANT	--	51	--	19	139	--	10	--
	NORTH AVE.									
		SE QUADRANT	--	77	--	--	160	--	10	--
		NE QUADRANT	--	53	--	--	130	--	10	--
	KNIGHTS ST.									
		SE QUADRANT	--	58	--	--	139	--	10	--
		NE QUADRANT	--	15	--	--	167	--	10	--
	OLD FOND DU LAC									
		SE QUADRANT	--	--	70	--	157	--	--	18
		NE QUADRANT	--	--	55	11	196	--	20	--
	WB STH 28									
		SE QUADRANT	--	--	26	--	130	--	10	--
	NORTHBOUND SUBTOTAL		14	865	276	59	4,150	709	310	18

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PEDESTRIAN CURB RAMP CONTINUED

CATEGORY	LOCATION		601.0409* CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	SPV.0090.001 CONCRETE CURB AND GUTTER 30-INCH TYPE A SPECIAL LF	601.0411* CONCRETE CURB AND GUTTER 30-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0410* CONCRETE SIDEWALK 5-INCH SF	602.0420 CONCRETE SIDEWALK 7-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF
0010	USH 45 SOUTHBOUND									
	WB CTH H									
		SW QUADRANT	--	--	86	--	257	--	20	--
		NW QUADRANT	--	--	104	--	371	--	20	--
	ROSELAND DR.									
		SW QUADRANT	--	--	56	--	260	--	20	--
		NW QUADRANT	--	--	45	--	312	--	20	--
	ELM ST.									
		SW QUADRANT	--	14	--	--	136	--	10	--
		NW QUADRANT	--	31	--	--	136	--	10	--
	CLINTON ST.									
		SW QUADRANT	--	48	--	--	254	--	20	--
		NW QUADRANT	--	43	--	--	408	--	20	--
	PROSPECT AVE.									
		SW QUADRANT	--	44	--	--	283	--	20	--
		NW QUADRANT	--	42	--	6	290	--	20	--
	EB STH 28									
		SW QUADRANT	--	17	--	--	75	--	10	--
		NW QUADRANT	--	13	--	--	65	--	10	--
	FOREST AVE.									
		SW QUADRANT	--	51	--	--	303	--	10	--
		NW QUADRANT	--	42	--	--	239	--	10	--
	1ST ST.									
		SW QUADRANT	--	22	--	--	170	--	10	--
	2ND ST.									
		SW QUADRANT	--	47	--	18	98	--	10	--
	NORTH AVE.									
		SW QUADRANT	--	50	--	6	184	--	20	--
		NW QUADRANT	--	54	--	--	264	--	20	--
	KNIGHTS ST.									
		SW QUADRANT	--	47	--	--	265	--	20	--
		NW QUADRANT	--	50	--	--	242	--	20	--
	OLD FOND DU LAC									
		NW QUADRANT	--	--	15	--	129	--	10	--
	WB STH 28									
		SW QUADRANT	--	--	29	--	80	--	10	--
	SOUTHBOUND SUBTOTAL		--	615	335	29	4,821	--	340	--
	TOTALS		14	1,480	611	88	8,971	709	650	18

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CURB RAMP GRADING, SHAPING, AND FINISHING

SPV.0060.003

CAT.	LOCATION	STATION	- STATION	CURB RAMP GRADING, SHAPING AND FINISHING EACH	
0010	USH 45 NORTHBOUND				
		313+00	- 327+00	4	CTH H SE/NE, ROSELAND SE/NE
		327+00	- 334+00	4	ELM ST SE/NE
		334+00	- 342+00	5	CLINTON SE/NE, PROSPECT SE/NE
		342+00	- 348+00	8	STH 28 SE/NE, FOREST NE, 1ST ST SE/NE
		348+00	- 357+00	5	2ND ST SE/NE, NORTH AVE SE/NE
		357+00	- 361+00	2	KNIGHTS AVE NE/SE
		361+00	- 372+00	0	
		372+00	- 377+00	4	OLD FDL NE/SE, STH 28 SE
	NORTHBOUND SUBTOTAL			32	
	USH 45 SOUTHBOUND				
		313+00	- 327+00	8	CTH H SW/NW, ROSELAND SW/NW
		327+00	- 334+00	2	ELM ST SW/NW
		334+00	- 342+00	8	CLINTON SW/NW, PROSPECT SW/NW
		342+00	- 348+00	5	STH 28 SW/NW, FOREST SW/NW, 1ST ST SW
		348+00	- 357+00	5	2ND ST SW, NORTH AVE SW/NW
		357+00	- 361+00	4	KNIGHTS AVE NW/SW
		361+00	- 372+00	0	
		372+00	- 377+00	2	OLD FDL NW, STH 28 SW
	SOUTHBOUND SUBTOTAL			34	
	TOTALS			66	

CURB RAMP GRADING, SHAPING, AND FINISHING
FOR INFOMRATION ONLY

CAT.	LOCATION	STATION	- STATION	EXCAVATION COMMON CY	BASE AGGREGATE DENSE 1 1/4-INCH TON	TOPSOIL SY	FERTILIZER TYPE B CWT	SOD LAWN SY
0010	USH 45 NORTHBOUND							
		313+00	- 327+00	14	18	60	0.034	60
		327+00	- 334+00	11	15	30	0.017	30
		334+00	- 342+00	20	26	38	0.021	38
		342+00	- 348+00	22	29	27	0.015	27
		348+00	- 357+00	16	21	26	0.015	26
		357+00	- 361+00	6	8	40	0.023	40
		361+00	- 372+00	7	9	49	0.028	49
		372+00	- 377+00	3	4	17	0.010	17
	NORTHBOUND SUBTOTAL			99	131	286	0.163	286
	USH 45 SOUTHBOUND							
		313+00	- 327+00	24	32	153	0.086	153
		327+00	- 334+00	6	7	16	0.009	16
		334+00	- 342+00	25	33	18	0.010	18
		342+00	- 348+00	17	23	--	--	--
		348+00	- 357+00	11	15	65	0.036	65
		357+00	- 361+00	10	14	38	0.021	38
		361+00	- 372+00	3	3	14	0.008	14
		372+00	- 377+00	2	2	16	0.009	16
	SOUTHBOUND SUBTOTAL			98	130	319	0.179	319
	TOTALS			197	260	605	0.342	605

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE	STATION	OFFSET*	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH**** EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	633.5200 MARKERS CULVERT END EACH	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT	NOTES
0010	1001	364+05	49.1' LT	--	1	--	--	1	--	938.00	--	
	1003	364+05	55.0' RT	--	1	--	--	1	--	936.66	--	
	1002	364+05	31.7' LT	--	--	1	1	--	946.36	937.51	8.85	
	RS_01	363+11	38.035 RT	1	--	--	--	--	--	938.54*****	--	
	EX MH	364+20	28.3' LT	--	--	--	--	--	--	937.81	--	EXISTING STRUCTURE
	TOTALS			1	2	1	1	2				

REMARKS
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURES UNLESS OTHERWISE NOTED
** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT
**** STATIONS, OFFSETS, AND ELEVATIONS FOR ALL ENDWALL LOCATIONS ARE TO THE END OF PIPE UNLESS OTHERWISE NOTED
*****CONTRACTOR TO VERIFY INVERT ELEVATION IN FIELD

STORM SEWER PIPES

CATEGORY	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE (%)	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0248 STORM SEWER PIPE REINFORCED CONCRETE CLASS II 48-INCH LF	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	SPV.0060.005 RECONNECT STORM SEWER PIPE EACH	NOTES
0010	1002	1003	937.50	936.60	1.04%	--	--	87	--	*
	1001	1002	938.00	937.80	1.16%	--	17	--	--	*
	EX MH	1002	937.81	937.65	1.33%	--	--	--	1	
	RS_01	EX_Culvert	938.54	936.85	2.50%	68	--	--	1	**
	TOTALS					68	17	87	2	

* JOINT TIES REQUIRED, LAST THREE JOINTS
**CONTRACTOR TO VERIFY EXISTING ELEVATIONS

3

ADJUSTING / RECONSTRUCTING MANHOLES - MONOLITHIC SHIM

CATEGORY	LOCATION	STA	OFFSET	390.0100* REMOVING PAVEMENT FOR BASE PATCHING CY	390.0405 BASE PATCHING CONCRETE SHES CY	416.0610* DRILLED TIE BARS EACH	465.0110* ASPHALTIC SURFACE PATCHING TON	690.0150* SAWING ASPHALT LF	690.0250* SAWING CONCRETE LF
0010		326+44	24.5' LT	0.7	0.7	--	1.1	20	--
		326+48	28' LT	0.7	0.7	--	1.1	20	--
		327+77	13.5' LT	0.7	0.7	8	2.1	--	20
		328+97	14.5' LT	0.7	0.7	8	2.1	--	20
		331+85	14.5' LT	0.7	0.7	8	2.1	--	20
		334+74	14' LT	0.7	0.7	8	2.1	--	20
		337+62	14' LT	0.7	0.7	8	2.1	--	20
		340+87	14' LT	0.7	0.7	8	2.1	--	20
		343+57	14.5 LT	0.7	0.7	8	2.1	--	20
		344+78	14.5 LT	0.7	0.7	8	2.1	--	20
	FOREST AVE R/L	39+81	9.5' RT	0.7	0.7	8	2.1	--	20
		346+47	15' LT	0.7	0.7	8	2.1	--	20
		349+58	14' LT	0.7	0.7	8	2.1	--	20
	2ND ST R/L	45+90	17.5' RT	0.7	0.7	8	2.1	--	20
		351+13	14' LT	0.7	0.7	8	2.1	--	20
		353+86	13.5' LT	0.7	0.7	8	2.1	--	20
		359+32	16' RT	0.7	0.7	8	2.1	--	20
		360+90	17.5' RT	0.7	0.7	--	1.1	20	--
			TOTAL	12.6	12.6	120	35	60	300

*ADDITIONAL QUANTITIY SHOWN ELSEWHERE

STORM SEWER SUMMARY

CATEGORY	LOCATION	STA	OFFSET	611.0420 RECONSTUCTING MANHOLES EACH	611.0430 RECONSTUCTING INLETS EACH	611.0603 INLET COVERS TYPE A-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.2006 MANHOLES 6-FT EACH	611.3230 INLETS 2X3-FT EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9710 SALVAGE INLET COVERS EACH	SPV.0060.004 DRAINAGE STRUCTURE REPAIR AND CLEANING EACH
0010		317+44	25' RT	--	--	--	--	--	--	--	--	--	--	--	1
		317+45	24' LT	--	--	--	--	--	--	--	--	--	--	--	1
		320+74	24' LT	--	--	--	--	--	--	--	--	--	--	1	1
		320+75	24' RT	--	--	--	--	--	--	--	--	--	--	1	1
		323+24	24' LT	--	--	--	--	--	--	--	--	--	--	--	1
		323+24	24' RT	--	--	--	--	--	--	--	--	--	--	--	1
		326+44	24.5' LT	1	--	--	--	--	--	--	--	--	1	--	--
		326+44	24.5' RT	--	--	--	--	--	--	--	--	--	--	1	1
		326+48	28' LT	--	--	--	--	--	--	--	1	--	1	--	--
		327+75	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
		327+77	24' RT	--	--	--	--	--	--	--	--	1	--	--	--
		327+77	13.5' LT	--	--	--	--	--	--	--	1	--	1	--	--
		328+97	14.5' LT	--	--	--	--	--	--	--	1	--	1	--	--
		328+98	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
		328+98	24' RT	--	--	--	--	--	--	--	--	1	--	--	--
	ELM ST R/L	27+29	16.5' RT	--	--	--	--	--	--	--	--	1	--	--	--
	ELM ST R/L	27+29	16' LT	--	--	--	--	--	--	--	--	1	--	--	--
		331+85	14.5' LT	--	--	--	--	--	--	--	1	--	1	--	--
		331+85	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
		331+94	24' RT	--	--	--	--	--	--	--	--	1	--	--	--
	CLINTON ST R	30+20	16' LT	--	--	--	1	1	--	--	--	--	--	--	--
	CLINTON ST R	30+20	16' RT	--	--	--	--	--	--	--	--	1	--	--	--
		334+74	14' LT	--	--	--	--	--	--	--	1	--	1	--	--
		334+77	24' RT	--	--	--	--	--	--	--	--	1	--	--	--
		334+86	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
	PROSPECT S	33+17	18' RT	--	--	--	--	--	--	--	--	1	--	--	--
	PROSPECT S	33+17	18' LT	--	--	--	--	--	--	--	--	1	--	--	--
		337+62	14' LT	--	--	--	--	--	--	--	1	--	1	--	--
		337+86	24' RT	--	--	1	--	--	--	--	--	--	--	--	--
		338+04	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
		339+79	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
		340+87	14' LT	--	--	--	--	--	--	--	1	--	1	--	--
		340+88	24' LT	--	--	--	--	--	--	--	--	1	--	--	--

STORM SEWER SUMMARY

CATEGORY	LOCATION	STA	OFFSET	611.0420 RECONSTUCTING MANHOLES EACH	611.0430 RECONSTUCTING INLETS EACH	611.0603 INLET COVERS TYPE A-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.2006 MANHOLES 6-FT EACH	611.3230 INLETS 2X3-FT EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9710 SALVAGE INLET COVERS EACH	SPV.0060.004 DRAINAGE STRUCTURE REPAIR AND CLEANING EACH
0010		340+88	24' RT	--	--	--	--	--	--	--	--	1	--	--	--
		343+10	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
		343+57	14.5 LT	--	--	--	--	--	--	--	1	--	1	--	--
		343+59	24.5' RT	--	1	--	--	--	--	--	--	--	--	1	--
		344+56	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
		344+78	14.5 LT	--	--	--	--	--	--	--	1	--	1	--	--
	FOREST AVE	39+78	16' LT	--	--	--	1	--	--	1	--	--	--	--	--
	FOREST AVE	39+81	9.5' RT	--	--	--	--	--	--	--	1	--	1	--	--
	FOREST AVE	39+82	15' RT	--	--	--	1	--	--	1	--	--	--	--	--
		345+14	24' RT	--	1	1	--	--	--	--	--	--	--	--	--
		345+20	24' LT	--	--	1	--	--	--	--	--	--	--	--	--
		346+47	15' LT	--	--	--	--	--	--	--	1	--	1	--	--
		346+51	25' LT	--	--	--	--	--	--	--	--	1	--	--	--
	1ST ST R/L	42+61	16.5' RT	--	1	--	--	--	--	--	--	--	--	1	--
		346+90	23' RT	--	--	--	--	--	--	--	--	1	--	--	--
		349+58	14' LT	--	--	--	--	--	--	--	1	--	1	--	--
		349+61	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
	2ND ST R/L	45+60	18.5' LT	--	--	--	1	--	1	--	--	--	--	--	--
	2ND ST R/L	45+90	17.5' RT	--	--	--	--	--	--	--	1	--	1	--	--
	2ND ST R/L	45+91	26.5' RT	--	--	--	1	--	--	1	--	--	--	--	--
		350+19	24.5- RT	--	--	1	--	--	--	--	--	--	--	--	--
	NORTH AVE F	46+63	16' LT	--	--	--	1	--	--	1	--	--	--	--	--
	NORTH AVE F	46+73	16' RT	--	--	--	1	--	--	1	--	--	--	--	--
		351+13	14' LT	--	--	--	--	--	--	--	1	--	1	--	--
		351+41	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
		353+86	13.5' LT	--	--	--	--	--	--	--	1	--	1	--	--
		353+88	24' LT	--	--	--	--	--	--	--	--	1	--	--	--
		353+88	24' RT	--	--	--	--	--	--	--	--	1	--	--	--
		359+32	16' RT	--	--	--	--	--	--	--	1	--	1	--	--
		359+32	25' RT	--	--	--	--	--	--	--	--	1	--	--	--
		359+33	24' LT	--	--	--	--	--	--	--	--	1	--	--	--

STORM SEWER SUMMARY

CATEGORY	LOCATION	STA	OFFSET	611.0420 RECONSTUCTING MANHOLES EACH	611.0430 RECONSTUCTING INLETS EACH	611.0603 INLET COVERS TYPE A-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.2006 MANHOLES 6-FT EACH	611.3230 INLETS 2X3-FT EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9710 SALVAGE INLET COVERS EACH	SPV.0060.004 DRAINAGE STRUCTURE REPAIR AND CLEANING EACH
0010		360+88	24' LT	--	--	--	--	--	--	--	--	1	--	--	1
		360+89	25' RT	--	--	--	--	--	--	--	--	1	--	--	1
		360+90	17.5' RT	--	--	--	--	--	--	--	1	--	1	--	--
		364+18	25' RT	--	--	--	--	--	--	--	--	--	--	1	1
		364+20	24' LT	--	--	--	--	--	--	--	--	--	--	1	1
		366+19	25' RT	--	--	--	--	--	--	--	--	--	--	--	1
		366+20	24' LT	--	--	--	--	--	--	--	--	--	--	--	1
		369+70	24' LT	--	--	--	--	--	--	--	--	--	--	--	1
		372+57	24' LT	--	--	--	--	--	--	--	--	--	--	--	1
		68+40	20' RT	--	--	--	--	--	--	--	--	1	--	--	1
		68+50	25' LT	--	--	--	--	--	--	--	--	1	--	--	1
		374+87	24' RT	--	--	--	--	--	--	--	--	1	--	--	1
		375+15	25' LT	--	--	--	--	--	--	--	--	1	--	--	1
			TOTAL	1	3	4	7	1	1	5	17	33	18	7	19

RIPRAP AND GEOTEXTILE FABRIC

CATEGORY	STATION	OFFSET	SIDE	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
0010	364+05	66'	RT	4	27
	TOTALS			4	27

MOBILIZATION

CATEGORY	LOCATION	619.1000 MOBILIZATION EACH
0010	USH 45	1
	TOTAL	1

WATER ITEMS

CATEGORY	LOCATION	624.0100 WATER MGAL
0010	PROJECT	
	BASE AGGREGATE	5
	TOTALS	5

RESTORATION ITEMS

CATEGORY	LOCATION	STATION	STATION	625.0100 TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIX NO. 60 LB	630.0200 SEEDING TEMPORARY LB	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
0010		313+00	327+00	277	--	0.75	--	7	0.6	277
		327+00	334+00	105	--	0.75	--	3	0.2	105
		334+00	342+00	56	--	0.75	--	1	0.1	56
		342+00	348+00	38	--	0.50	--	1	0.1	38
		348+00	357+00	157	--	0.75	--	4	0.4	157
		357+00	361+00	169	--	0.50	--	5	0.4	169
		361+00	372+00	38	51	0.50	1	--	0.1	38
		372+00	377+00	97	--	0.50	--	3	0.2	97
	UNDISTRIBUTED			234	13	2.00	--	6	0.5	234
TOTALS				1,171	64	7.00	1	30	2.6	1,171

EROSION CONTROL ITEMS

CATEGORY	LOCATION	STATION	STATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
0010		313+00	327+00	142	710	--	--	--	1	6	1
		327+00	334+00	--	--	--	--	--	--	8	--
		334+00	342+00	--	--	--	--	--	--	11	--
		342+00	348+00	--	--	--	--	--	--	10	--
		348+00	357+00	--	--	--	--	--	--	9	--
		357+00	361+00	--	--	--	--	--	--	4	--
		361+00	372+00	286	1,430	--	--	--	--	3	2
		372+00	377+00	--	--	--	--	1	--	5	--
	UNDISTRIBUTED			107	535	12	6	1	1	2	--
TOTALS				535	2,675	12	6	2	2	58	3

TYPE II PERMANENT SIGNING 4070-00-70

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0814 POSTS TUBULAR STEEL 2 X 2 INCH X 14-FT (EA)	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	W9-1R(2M)		36	X	36		9.000					1			
2	W4-2R(2M)		36	X	36		9.000					1			
3	R3-8LA (2S)		36	X	30	7.500				1	1	1			
4	W9-1R									1	1				
5	J3-1(2S)		24	X	45	7.500				1					MOUNT ON LIGHT POLE
	M1-5A	CTH H	24	X	24										
	M6-1		21	X	21										
6	W4-1R									1	1				
7	R1-1F(2S)		30	X	30			5.180		1					MOUNT ON SIGNAL POLE
8	W1-7(2S)		48	X	24		8.000					1			
9	R1-1F(2S)		30	X	30			5.180		1					MOUNT ON SIGNAL POLE
10	J41-(2S)		24	X	36	6.000				1					MOUNT ON LIGHT POLE
	M3-3		24	X	12										
	M1-4	USH 45	24	X	24										
11	W11-2(2M)		36	X	36		9.000			1					MOUNT ON LIGHT POLE. INCLUDES REMOVAL OF AHEAD PLAQUE
11A	W16-9P(2M)		30	X	18		3.750							11	
12	W9-2									1	1				
13	J4-1(2S)		24	X	36	6.000				1	1	1			
	M3-1		24	X	12										
	M1-4	USH 45	24	X	24										
14	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
15	J1-1(2S)		24	X	39	6.500				1					MOUNT ON LIGHT POLE
	M2-1		24	X	15										
	M1-5A	CTH H	24	X	24										
16	R3-8AAR(2S)		54	X	30	11.250					2	1			
17	J13-1(2S)		24	X	45	7.500				1					MOUNT ON LIGHT POLE
	M1-5A	CTH H	24	X	24										
	M6-6		21	X	21										
18	R1-1F(2S)		30	X	30			5.180		1					MOUNT ON SIGNAL POLE
19	W11-8(2S)		30	X	30		6.250			1	1	1			
20	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
21	W3-3(2S)		36	X	36		9.000			1					MOUNT ON LIGHT POLE
22	R1-1(2S)		30	X	30	5.180				1	1		1		
23	W11-8(2S)		30	X	30		6.250			1	1	1			
24	R1-1(2S)		36	X	36	5.180				1	1		1		
25	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1	1		1		
26	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
27	R1-1(2S)		36	X	36	5.180				1	1		1		
28	J1-1(2S)		24	X	39	6.500				1					MOUNT ON LIGHT POLE
	M2-1		24	X	15										
	M1-6	STH 28	24	X	24										

SHEET: 1 OF 4

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0814 POSTS TUBULAR STEEL 2 X 2 INCH X 14-FT (EA)	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
29	R7-51(2S)		18	X	24	3.000				1	1		1		
30	R1-1(2S)		30	X	30	5.180				1	1		1		
31	R1-1(2S)		30	X	30	5.180				1	1		1		
32	R1-1(2S)		30	X	30	5.180				1	1		1		
33	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
34	S1-1(2S)		36	X	36		6.750			1					MOUNT ON LIGHT POLE. INCLUDES REMOVAL OF PLAQUE
34A	S16-9P(2S)		30	X	18		3.750							34	
34B	R2-6P(2S)		24	X	18	3.000								34	
35	R3-8AR		36	X	30	7.500				1	1		1		
36	J3-1(2S)		24	X	57	9.500				1					MOUNT UP HIGH ON SIGNAL POLE
	M3-2		24	X	12										
	M1-6	STH 28	24	X	24										
	M6-1		21	X	21										
37	J3-1(2S)		24	X	57	9.500				1					MOUNT UP HIGH ON SIGNAL POLE
	M3-4		24	X	12										
	M1-6	STH 28	24	X	24										
	M6-1		21	X	21										
38	R1-1F(2S)		30	X	30			5.180		1					MOUNT ON SIGNAL POLE
39	R1-1F(2S)		30	X	30			5.180		1					MOUNT ON SIGNAL POLE
40	J3-1(2S)		24	X	57	9.500				1					MOUNT UP HIGH ON SIGNAL POLE
	M3-4		24	X	12										
	M1-6	STH 28	24	X	24										
	M6-1		21	X	21										
41	R1-1F(2S)		30	X	30			5.180		1					MOUNT ON SIGNAL POLE
42	J3-1(2S)		24	X	57	9.500				1					MOUNT UP HIGH ON SIGNAL POLE
43	R7-1D(2S)		18	X	24	3.000				1	1		1		
44	J3-1(2S)		24	X	57	9.500				1					MOUNT UP HIGH ON SIGNAL POLE
	M3-3		24	X	12										
	M1-4	USH 45	24	X	24										
	M6-1		21	X	21										
45	R10-50									1					ON SIGNAL ARM
46	J4-1(2S)		24	X	36	6.000				1					MOUNT ON LIGHT POLE
	M3-1		24	X	12										
	M1-4	USH 45	24	X	24										
47	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
48	JV4-1(2S)		24	X	72	12.000				1					MOUNT ON LIGHT POLE
	M3-1		24	X	12										
	M1-4	USH 45	24	X	24										
	M3-4		24	X	12										
	M1-6	STH 28	24	X	24										

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	SIGN SIZE H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0814 POSTS TUBULAR STEEL 2 X 2 INCH X 14-FT (EA)	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
49	R1-1(2S)		30	X	30	5.180				1	1		1		
50	W3-3(2S)		36	X	36		9.000			1					MOUNT ON LIGHT POLE
51	J2-1(2S)		24	X	57	9.500				1					MOUNT ON LIGHT POLE
	M3-2		24	X	12										
	M1-6	STH 28	24	X	24										
	M5-1L		21	X	21										
52	R7-1L(2S)		18	X	24	3.000				1	1		1		INCLUDES REMOVAL OF 53
53	R10-7(2S)		24	X	30	5.000									
54	R3-8LA (2S)		36	X	30	7.500				1	1		1		
55	R1-1(2S)		30	X	30	5.180				1	1		1		
56	S1-1(2S)		36	X	36		6.750			1					EXISTING ON LIGHT POLE. NEW SIGN TO BE ON RRFB ASSEMBLY. SEE QTYS FOR RRFB ASSEMBLY FOR TYPE I POLE
56A	S16-7L(2S)		30	X	18		3.750							56	
57	S1-1(2S)		36	X	36		6.750								PART OF RRFB ASSEMBLY. SEE QTYS FOR RRFB ASSEMBLY. MOUNT ON BACK OF SIGN # 56
57A	S16-7R(2S)		30	X	18		3.750							57	
58	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
59	NONE	PEDESTRIAN CROSSWALK								1	1				
60	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
61	S1-1(2S)		36	X	36		6.750			1					EXISTING SIGN ON LIGHT POLE. NEW SIGN TO BE ON RRFB ASSEMBLY. SEE QTYS FOR RRFB ASSEMBLY TYPE I POLE
61A	S16-7L(2S)		30	X	18		3.750			1				61	
62	S1-1(2S)		36	X	36		6.750								MOUNT ON BACK OF SIGN # 61 ON TYPE I POLE. PART OF RRFB ASSEMBLY. SEE QTYS FOR RRFB ASSEMBLY
62A	S16-7R(2S)		30	X	18		3.750							62	
63	R1-1(2S)		30	X	30	5.180				1	1		1		
64	S1-1(2S)		36	X	36		6.750			1					MOUNT ON LIGHT POLE
64A	S16-9P(2S)		30	X	18		3.750			1				64	
64B	R2-6P(2S)		24	X	18	3.000								64	
65	R1-1(2S)		30	X	30	5.180				1	1		1		
66	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
67	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
68	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
69	R2-1(2S)	SPEED LIMIT 40	24	X	30	5.000				1					MOUNT ON LIGHT POLE
70	J2-1(2S)		24	X	57	9.500				1					MOUNT ON LIGHT POLE
	M3-4		24	X	12										
	M1-6	STH 28	24	X	24										
	M5-1L		21	X	21										
71	R1-1(2S)		30	X	30	5.180				1	1	1			
72	R2-1(2S)	SPEED LIMIT 40	24	X	30	5.000				1	1	1			

TYPE II PERMANENT SIGNING 4070-00-70

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0814 POSTS TUBULAR STEEL 2 X 2 INCH X 14-FT (EA)	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
73	J4-2(2S)		48	X	36	12.000				1					MOUNT ON LIGHT POLE
	M3-3		24	X	12										
	M1-4	USH 45	24	X	24										
	M3-2		24	X	12										
	M1-6	STH 28	24	X	24										
74	R2-1(2S)	SPEED LIMIT 30	24	X	30	5.000				1					MOUNT ON LIGHT POLE
75	NONE	LUTHERAN CHURCH								1					ON LIGHT POLE
76	J3-1(2S)		24	X	57	9.500				1					MOUNT ON LIGHT POLE
	M3-1		24	X	12										
	M1-4	USH 45	24	X	24										
	M6-1		21	X	21										
77	J3-1(2S)		24	X	57	9.500				1					MOUNT ON LIGHT POLE
	M3-4		24	X	12										
	M1-6	STH 28	24	X	24										
	M6-1		21	X	21										
78	W1-7(2S)		48	X	24		8.000					1			
79	R2-1(2S)	SPEED LIMIT 40	24	X	30	5.000				1					MOUNT ON LIGHT POLE
80	J3-1(2S)		24	X	57	9.500				1	1	1			
	M3-4		24	X	12										
	M1-6	STH 28	24	X	24										
	M6-1		21	X	21										
81	R1-1(3)		36	X	36	7.460				1	1	1			INCLUDES REMOVAL OF W4-4C
81A	W4-4C(3)	TRAFFIC ON 45 DOES NOT STOP	36	X	15		3.750							81	
82	R1-1(3)		36	X	36	7.460				1	1	1			INCLUDES REMOVAL OF W4-4C
82A	W4-4C(3)	TRAFFIC ON 45 DOES NOT STOP	36	X	15		3.750							82	
		UNDISTRIBUTED							5	5	5	5			
TOTALS						365.650	147.750	31.080	5	81	36	19	16		

SHEET: 4 OF 4

TRAFFIC CONTROL ITEMS

CATEGORY	STAGE	LOCATION	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH**	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH**	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH**	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH**	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH**	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	643.0900* TRAFFIC CONTROL SIGNS EACH**	643.0900* TRAFFIC CONTROL SIGNS DAYS	643.0920* TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	FOR INFORMATION ONLY NUMBER OF CYCLES	FOR INFORMATION ONLY NUMBER OF SIGNS
0010	STAGE 1	USH 45	56	315	17640	120	6720	192	10752	25	1400	1	56	232	12992	5	1	45
	STAGE 2	USH 45	50	457	22850	85	1275	170	8500	28	1400	1	50	200	10000	5	1	15
	SUBTOTALS				40490		7995		19252		2800		106		22992	10		
	UNDISTRIBUTED				--		--		--		--		--		--	--		
	TOTALS				40490		7995		19252		2800		106		22992	10		

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

TRAFFIC CONTROL SIGNS FIXED MESSAGE

643.1000

CATEGORY	STAGE	SIGN NO.	SIGN SIZE W FT X	SIGN SIZE H FT	NUMBER OF SIGNS	TRAFFIC CONTROL SIGNS FIXED MESSAGE EACH SF	TRAFFIC CONTROL SIGNS FIXED MESSAGE TOTAL SF	SIGN MESSAGE
0010	1	1-1	6.00	3.00	4	18.00	72.00	DETOUR AHEAD USH 45 / STH 28 USE DETOURS
		1-2	6.00	3.00	2	18.00	36.00	USH 45 CLOSED AT HWY H WEST FOLLOW DETOUR
		1-3	6.00	3.00	1	18.00	18.00	STH 28 WEST CLOSED AT USH 45 FOLLOW DETOUR
		1-4	6.00	3.00	1	18.00	18.00	STH 28 EAST CLOSED AT USH 45 FOLLOW DETOUR
TOTALS							144.00	

3

TRAFFIC CONTROL DETOUR ITEMS

CATEGORY	LOCATION	STAGE DURATION (643.0900*) DAYS	TRAFFIC CONTROL SIGNS (643.0900*) EACH**	TRAFFIC CONTROL SIGNS (643.0900*) DAYS	COVERING SIGNS TYPE II (643.0920*) EACH	FOR INFORMATION ONLY NUMBER OF CYCLES	FOR INFORMATION ONLY NUMBER OF SIGNS
0010	DETOUR ROUTE - USH 45	116	165	19140	30	1	30
	DETOUR ROUTE - STH 28	116	177	20532	36	1	36
	PEDESTRIAN DETOUR STAGE 1	56	70	3920	--	--	--
	PEDESTRIAN DETOUR STAGE 2	50	50	2500	--	--	--
	TOTALS			46092	66		

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

TEMPORARY PAVEMENT MARKINGS

CATEGORY	STAGE	LOCATION	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH SOLID WHITE LF	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH SOLID YELLOW LF	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH SOLID WHITE LF	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH SOLID YELLOW LF	643.3820 TEMPORARY MARKING STOP LINE EPOXY 18-INCH WHITE LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH WHITE LF
0010	STAGE 1	USH 45	6100	7090	--	--	105	--
	STAGE 2	USH 45	--	--	6250	7530	--	129
	SUBTOTALS		6100	7090	6250	7530	105	129
	TOTALS		13,190		13,780		105	129

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	LOCATION	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS (4070-00-70) EACH
0010	USH 45	1
	TOTALS	1

TRAFFIC CONTROL PROJECT

CATEGORY	LOCATION	643.5000 TRAFFIC CONTROL PROJECT (4070-00-70) EACH
0010	USH 45	1
	TOTALS	1

FIELD OFFICE

CATEGORY	LOCATION	642.5401 FIELD OFFICE TYPE D EACH
0010	USH 45	1
	TOTAL	1

PEDESTRIAN ACCOMMODATIONS

CATEGORY	STAGE	LOCATION	# OF DAYS	# OF SIGNS	643.0900* TRAFFIC CONTROL SIGNS DAY	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	649.0205 TEMPORARY MARKING LINE PAINT 8-INCH LF
0010	STAGE 1	KNIGHTS AVE	7	34	238	75	4	40	170	60
		OLD FDL	7	32	224	680	4	40	260	200
		OTHER INTERSECTIONS	--	--	--	--	--	--	685	--
	SUBTOTALS				462	755	8	80	1115	260
	STAGE 2	CTH H	7	4	28	860	4	40	680	90
		OLD FDL	7	14	98	63	2	20	83	47
		OTHER INTERSECTIONS	--	--	--	--	--	--	595	--
	SUBTOTALS				126	923	6	60	1358	137
	TOTALS				588	1,678	14	140	2,473	397

TRAFFIC CONTROL PCMS

CATEGORY	STAGE	LOCATION	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY
0010	STAGE 1	USH 45 AND CTH H WEST	14
		USH 45 AND STH 28 EAST	14
		TOTALS	28

PAVEMENT MARKING ITEMS

CATEGORY	LOCATION	STATION		646.2020 MARKING LINE EPOXY 6-INCH SOLID WHITE LF	646.2020 MARKING LINE EPOXY 6-INCH SOLID YELLOW LF	646.2020 MARKING LINE EPOXY 6-INCH 12.5 FT LINE, 37.5 FT SKIP WHITE LF	646.4020 MARKING LINE EPOXY 10-INCH SOLID WHITE LF	646.4020 MARKING LINE EPOXY 10-INCH 3 FT LINE, 9 FT SKIP WHITE LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORDS EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH WHITE LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH WHITE 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	646.6466 COLD WEATHER MARKING LINE EPOXY 6-INCH SOLID WHITE LF	646.6466 COLD WEATHER MARKING LINE EPOXY 6-INCH SOLID YELLOW LF	646.6466 COLD WEATHER MARKING LINE EPOXY 6-INCH 12.5 FT LINE, 37.5 FT SKIP WHITE LF	646.6470 COLD WEATHER MARKING LINE EPOXY 10-INCH SOLID WHITE LF	646.6470 COLD WEATHER MARKING LINE EPOXY 10-INCH 3 FT LINE, 9 FT SKIP WHITE LF
0010	USH 45	309+00	327+00	2,696	3,693	138	309	48	4	1	67	453	338	--	--	--	2,696	3,693	138	309	48
		327+00	360+00	202	6,144	--	215	24	6	--	46	--	733	60	--	--	202	6,144	--	215	24
		360+00	377+00	2,928	3,062	88	--	--	--	--	--	--	--	--	--	--	2,928	3,062	88	--	--
	CTH H WB			--	176	--	92	--	2	2	25	--	151	--	--	--	--	176	--	92	--
	ROSELAND DR			--	--	--	--	--	--	--	22	--	85	--	--	--	--	--	--	--	--
	ELM ST			--	--	--	--	--	--	--	14	--	65	--	--	--	--	--	--	--	--
	CLINTON ST			--	16	--	8	--	--	--	34	--	135	--	--	--	--	16	--	8	--
	PROSPECT ST			--	--	--	--	--	--	--	33	--	148	--	--	--	--	--	--	--	--
	STH 28 EB			--	370	--	110	21	2	2	22	--	124	--	--	--	--	370	--	110	21
	FOREST AVE			--	--	--	--	--	--	--	13	--	73	--	--	--	--	--	--	--	--
	1ST ST			--	--	--	--	--	--	--	15	--	85	--	--	--	--	--	--	--	--
	2ND ST			--	--	--	--	--	--	--	17	--	91	--	--	--	--	--	--	--	--
	NORTH AVE			--	--	--	--	--	--	--	15	--	69	--	--	--	--	--	--	--	--
	KNIGHTS AVE			--	--	--	--	--	--	--	17	--	71	--	--	--	--	--	--	--	--
	OLD FOND DU LAC AVE			--	--	--	--	--	--	--	23	--	108	--	--	--	--	--	--	--	--
	STH 28 WB			--	204	--	111	--	2	--	30	--	--	--	38	1	--	204	--	111	--
	SUBTOTALS			5,826	13,665	226	845	93	16	5	393	453	2,276	60	38	1	5,826	13,665	226	845	93
	TOTALS				19,717			938	16	5	393	453	2,276	60	38	1		19,717			938

PAVEMENT MARKING REMOVAL ITEMS

CATEGORY	LOCATION	STATION	STATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH	SPV.0090.002 MARKING REMOVAL CURB MARKING LF
0010	USH 45	306+00	380+00	2,200	450	5	18
			TOTALS	2,200	450	5	18

CONSTRUCTION STAKING

CATEGORY	STAGE	STATION	-	STATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.5500 CONSTRUCTION STAKING CURB AND GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.8501 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (4070-00-70) EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9911 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (4070-00-70) EACH
0010		313+00	-	327+00	--	183	--	1370	--	4	--
	STAGE 1A	327+00	-	361+00	--	1745	--	3400	--	17	--
		361+00	-	377+00	--	151	--	1565	--	3	--
	TOTAL				0	2079	0	6335	0	24	0
		313+00	-	327+00	--	329	--	--	--	4	--
	STAGE 1B	327+00	-	361+00	2	1353	--	--	--	16	--
		361+00	-	377+00	1	39	--	--	--	2	--
	TOTAL				3	1721	0	0	0	22	0
		313+00	-	327+00	--	--	--	--	--	--	--
	STAGE 2A	327+00	-	361+00	--	--	--	--	--	--	--
		361+00	-	377+00	--	--	1	--	--	--	--
	TOTAL				0	0	1	0	0	0	0
		313+00	-	327+00	--	--	--	--	--	--	--
	STAGE 2B	327+00	-	361+00	--	--	--	--	--	--	--
		361+00	-	377+00	--	--	--	--	--	--	--
	TOTAL				0	0	0	0	0	0	0
	UNDISTRIBUTED				--	--	--	--	1	--	1
TOTALS					3	3,800	1	6,335	1	46	1

CONSTRUCTION STAKING CURB AND GUTTER USED FOR RADIUS AND ANY LOCATION GREATER THAN 25-FT

3

SAWING

CATEGORY	LOCATION	STATION	-	STATION	690.0150* SAWING ASPHALT LF	690.0250* SAWING CONCRETE LF
0010	USH 45 NORTHBOUND					
		313+00	-	327+00	204	156
		327+00	-	334+00	24	338
		334+00	-	342+00	82	1217
		342+00	-	348+00	84	539
		348+00	-	357+00	74	542
		357+00	-	361+00	--	160
		361+00	-	372+00	69	21
		372+00	-	377+00	182	39
	NORTHBOUND SUBTOTAL				719	3012
	USH 45 SOUTHBOUND					
		313+00	-	327+00	335	76
		327+00	-	334+00	--	304
		334+00	-	342+00	95	568
		342+00	-	348+00	27	626
		348+00	-	357+00	29	440
		357+00	-	361+00	33	445
		361+00	-	372+00	95	20
		372+00	-	377+00	52	25
	SOUTHBOUND SUBTOTAL				666	2504
	UNDISTRIBUTED				180	480
	TOTALS				1565	5996

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE JOINT AND CRACK CLEANING AND REPAIR

CATEGORY	LOCATION	STATION	-	STATION	SPV.0090.003 CONCRETE JOINT AND CRACK CLEANING AND REPAIR LF
0010	USH 45	326+90	-	360+85	8,888
	TOTALS				8,888

UTILITY LINE OPENING

CATEGORY	LOCATION	209.2500 BACKFILL GRANULAR GRADE 2 TON	SPV.0060.006 UTILITY LINE OPENING EACH
0010	USH 45 AND CTH H INTERSECTION	50	10
	365+05 LT/RT	20	2
	24" PIPE REPLACEMENT 363+00 RT	10	2
	UNDISTRIBUTED	50	5
	TOTAL	130	19

CHAIN LINK FENCE

CATEGORY	LOCATION	STATION	STATION	SPV.0090.004 REMOVE, STORE AND REINSTALL CHAIN LINK FENCE FABRIC LF
0010	USH 45 AND 2ND ST	46+68 LT	351+77	276
	TOTAL			276

3

3

Rectangular Rapid Flash Beacon - MISC QUANTITIES			4070-00-70	
LOCATION		RECTANGULAR RAPID	RECTANGULAR RAPID	
		FLASH BEACON	FLASH BEACON	
		SYSTEM	SYSTEM	
		USH 45 NB NORTH AVE ASSEMBLY	USH 45 SB NORTH AVE ASSEMBLY	
		SPV.0060.001	SPV.0060.002	
USH 45 NB AT NORTH AVE BACK TO BACK ASSEMBLY		1		
USH 45 SB AT NORTH AVE BACK TO BACK ASSEMBLY			1	
TOTAL		1	1	

SHEET: 1 OF 1

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
1	ETHERNET SWITCH
1	CELLULAR MODEM
1	POLES TYPE 10
1	POLES TYPE 10 SPECIAL
1	MONOTUBE ARMS 30-FT
1	MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE
2	LUMINAIRE ARMS 15-FT
1	RADAR DETECTOR
6	ACCESSIBLE PEDESTRIAN PUSH BUTTON
1	CCTV OBSERVATION CAMERA (TEMPORARY SIGNAL)

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	POLES TYPE 10 EACH	POLES TYPE 10 SPECIAL EACH	MONOTUBE ARMS 30-FT EACH	MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE EACH	LUMINAIRE ARMS STEEL 15-FT EACH	RADAR DETECTOR EACH	ACCESSIBLE PEDESTRIAN PUSH BUTTON EACH
SB2	--	--	--	--	--	--	1
SB3	--	--	--	--	--	--	1
SB4	--	1	--	1	1	--	--
SB7	--	--	--	--	--	--	1
SB9	1	--	1	--	1	1	1
SB10	--	--	--	--	--	--	1
SB12	--	--	--	--	--	--	1
TOTAL	1	1	1	1	2	1	6

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
TOTAL	11

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.001 REMOVING TRAFFIC SIGNALS EACH	204.9060.S.002 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE EACH
USH 45/CTH H & CTH H WEST	1	1
TOTAL	1	1

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB12	1
TOTAL	2 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

3

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE		659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
PEDESTRIAN SIGNAL - 16 INCH		6
TRAFFIC SIGNAL, THREE SECTION		7
TRAFFIC SIGNAL, FIVE SECTION		2
HIGH PRESSURE SODIUM LAMP		3
MERCURY SWITCHES		1
BALLASTS		3
	TOTAL	22

LAMP, BALLAST, LED, SWITCH DISPOSAL (FOR INFORMATION ONLY)

SIGNAL BASE NO.	PEDESTRIAN SIGNAL, 16 INCH EACH	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FIVE SECTION EACH	HIGH PRESSURE SODIUM LAMP EACH	MERCURY SWITCHES EACH	BALLASTS EACH
CB1	--	--	--	--	1	--
SB1	--	1	1	--	--	--
SB2	1	--	1	1	--	1
SB3	--	1	--	--	--	--
SB4	--	1	--	--	--	--
SB5	--	2	--	--	--	--
SB6	1	1	--	1	--	1
SB7	1	1	--	--	--	--
SB8	2	--	--	--	--	--
SB9	--	--	--	1	--	1
SB10	1	--	--	--	--	--
TOTAL	6	7	2	3	1	3

3

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1	--	63
PB1	SB1	17	--
PB1	SB2	13	--
PB4	PB13	--	36
PB13	SB3	11	--
PB13	SB4	--	10
PB4	SB5	25	--
PB5	SB6	29	--
PB5	SB7	8	--
PB5	SB8	5	--
PB8	SB9	--	12
PB9	SB10	12	--
PB9	SB11	6	--
PB9	PB14	18	--
PB12	SB12	18	--
PB12	CB1	--	66
	TOTAL	162 *	187

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

INSTALL CONDUIT INTO EXISTING ITEM

STRUCTURE NO.	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH
PB4	1
PB5	1
PB8	1
PB9	1
TOTAL	4

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB5	313+01.7, 6.0'RT	6'x20'	3		9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	87	228	261
12	PB5	313+29.8, 5.3'RT	6'x20'	3		9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	83	228	249
21	PB3	316+74.1, 10.6'LT	6'x15'	3		9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	60	276	180
41	PB11	--	6'x15'	4		EXISTING LOOP TO REMAIN IN PLACE	--	349	--
43	PB14	49+22.6, 16.0'RT	6'x20'	3		9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	150	228
44	PB14	49+50.7, 16.0'LT	6'x20'	3		9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	150	204
45	PB14	49+19.3, 5.4'RT	6'x20'	3		9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	150	288
46	PB14	49+47.4, 5.4'RT	6'x20'	3		9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	150	270
61	PB7	--	6'x20'	5		EXISTING LOOP TO REMAIN IN PLACE	--	473	--
						TOTAL	560 *	2154 *	1680 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
WASHINGTON COUNTY
CATEGORY 0020
S66-0557

PULL BOXES

PULL BOX NO.	LOCATION^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH	653.0900 ADJUSTING PULL BOXES EACH
PB1	49+21.7, 67.6'LT	--	1	--
PB5	--	--	--	1
PB8	--	--	--	1
PB12	49+11.0, 53.5'LT	--	1	--
PB13	314+43.0, 34.9'RT	1	--	--
PB14	49+30.7, 26.7'RT	1	--	--
	TOTAL	2 *	2	2

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION^	654.0101 CONCRETE BASES TYPE 1 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	314+66.7, 73.1'LT	--	--	--	--	1
SB1	314+59.2, 39.4'LT	1	--	--	--	--
SB2	314+53.8, 43.6'LT	1	--	--	--	--
SB3	314+53.4, 35.2'RT	1	--	--	--	--
SB4	314+47.9, 43.2'RT	--	--	--	1	--
SB5	313+82.8, 36.2'RT	1	--	--	--	--
SB6	313+51.2, 36.7'RT	1	--	--	--	--
SB7	313+27.9, 39.2'RT	1	--	--	--	--
SB8	313+17.2, 38.8'RT	1	--	--	--	--
SB9	313+27.8, 34.4'LT	--	--	1	--	--
SB10	49+58.8, 35.2'RT	1	--	--	--	--
SB11	49+50.4, 27.4'RT	1	--	--	--	--
SB12	314+41.8, 52.6'LT	1	--	--	--	--
SB13	49+00.5, 27.1'LT	--	1	--	--	--
	TOTAL	10	1	1	1	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
WASHINGTON COUNTY
CATEGORY 0020
S66-0557

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO		655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1		--	65	--
CB1	SB2		61	--	--
CB1	SB3		230	--	--
CB1	SB4		--	229	--
CB1	SB5		192	--	--
CB1	SB6		302	--	--
CB1	SB7		281	--	--
CB1	SB8		278	--	--
CB1	SB9		--	235	--
CB1	SB10		173	--	--
CB1	SB11		167	--	--
CB1	SB12		67	--	--
CB1	SB4		--	--	229
CB1	SB13		--	--	78
SB13	SB9		--	--	239
		TOTAL	1751 *	529	546

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	65
SB1	SB2	54
SB2	SB3	219
SB3	SB4	45
SB4	SB5	111
SB5	SB6	184
SB6	SB7	61
SB7	SB8	37
SB8	SB9	127
SB9	SB10	110
SB10	SB11	42
SB11	SB12	160
SB12	CB1	67
PB1	CB1	44
PB4	SB5	45
PB5	SB8	25
PB8	SB9	32
PB9	SB11	26
PB12	CB1	45
PB13	SB4	30
	TOTAL	1529

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO		655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 4		--	22
SB1	HEAD 6		19	--
SB2	HEAD 12		15	--
SB4	HEAD 2		70	--
SB4	HEAD 3		23	--
SB4	HEAD 5		--	71
SB4	HEAD 13		15	--
SB5	HEAD 10		19	--
SB6	HEAD 11		19	--
SB7	HEAD 14		14	--
SB8	HEAD 1		19	--
SB9	HEAD 7		55	--
SB9	HEAD 8		55	--
SB9	HEAD 15		15	--
SB10	HEAD 16		15	--
SB11	HEAD 9		19	--
SB12	HEAD 17		15	--
		TOTAL	387	93 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO		655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB4	LUMIN		144
SB9	LUMIN		144
SB13	LUMIN		117
		TOTAL	405

FILE NAME : N:\PDS\C3D\CAD\40700000\SIG\S66-0557\S66-0557_mq_4070-00-70.pptx PLOT DATE : 1/3/2023 PLOT BY : DOTCMV PLOT NAME : S66-0557_mq.pdf PLOT SCALE : 1:1

USH 45/CTH H (FOND DU LAC AVE) & CTH H WEST
WASHINGTON COUNTY
CATEGORY 0020
S66-0557

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION*		656.0201.001 ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH
USH 45/CTH H & CTH H WEST		1
	TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT 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
SB1	1	--	--	--	--	1	--	--	--
SB2	1	--	--	--	--	--	1	--	--
SB3	1	--	--	1	--	--	--	--	--
SB5	1	--	--	--	1	--	--	--	--
SB6	1	--	--	--	1	--	--	--	--
SB7	1	--	--	--	--	--	1	--	--
SB8	1	--	--	--	1	--	--	--	--
SB10	1	--	--	--	--	--	1	--	--
SB11	1	--	--	--	1	--	--	--	--
SB12	1	--	--	--	--	--	1	--	--
SB13	--	1	1	--	--	--	--	1	1
TOTAL	10	1	1	1	4	1	4	1	1 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.008 INSTALL POLES TYPE 10 EACH	SPV.0060.009 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.010 INSTALL MONOTUBE ARMS 30-FT EACH	SPV.0060.011 INSTALL MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.012 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB4	--	1	--	1	1	1
SB9	1	--	1	--	1	1
TOTAL	1	1	1	1	2	2 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB8	1	--	--
2	SB4	1	--	--
3	SB4	1	--	--
4	SB1	--	1	--
5	SB4	--	1	--
6	SB1	1	--	--
7	SB9	1	--	--
8	SB9	1	--	--
9	SB11	1	--	--
10	SB5	1	--	--
11	SB6	1	--	--
12	SB2	--	--	1
13	SB4	--	--	1
14	SB7	--	--	1
15	SB9	--	--	1
16	SB10	--	--	1
17	SB12	--	--	1
	TOTAL	9	2	6

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.001 SIGNAL MOUNTING HARDWARE EACH
USH 45/CTH H & CTH H WEST	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0201.001 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS EACH	677.0200 INSTALL CAMERA ASSEMBLY EACH	SPV.0060.013 TEMPORARY ACCESSIBLE PED SIGNAL SYSTEM EACH
USH 45/CTH H & CTH H WEST	1	1	1
TOTAL	1	1	1

TRANSPORT AND INSTALL
STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0060.014 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET EACH
USH 45/CTH H & CTH H WEST	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED
RADAR DETECTION SYSTEM

LOCATION	SPV.0060.015 TRNSPT & INSTALL STATE FURN RADAR DETECT SYS EACH
USH 45/CTH H & CTH H WEST	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL
AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0060.016 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS EACH
USH 45/CTH H & CTH H WEST	1
TOTAL	1

TRANSPORT AND INSTALL ACCESSIBLE
PEDESTRIAN SIGNAL PUSH BUTTON EQUIPMENT

LOCATION	SPV.0060.017 TRNSPT & INSTALL STATE FURN AUDIBLE PED SIGNAL SYSTEM EACH
USH 45/CTH H & CTH H WEST	1
TOTAL	1

USH 45/STH 28 & STH 28 (MAIN ST)
WASHINGTON COUNTY
CATEGORY 0020
S66-0149

3

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.003 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE EACH
USH 45/STH 28 & STH 28 (MAIN ST)	1
TOTAL	1

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB5	1
TOTAL	1 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
EXT1	PB5	10
	TOTAL	10 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

PULL BOXES

PULL BOX NO.	LOCATION^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB5	345+25.7, 28.0'LT	1
	TOTAL	1 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
21	PB5	345+11.2, 12.3'LT	6'x15'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	314	216
51	PB12	343+87.5, 5.6'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	173	270
52	PB12	343+59.1, 5.6'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	173	282
61	PB11	340+88.8, 5.9'RT	6'x6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	62	257	248
					TOTAL	318 *	917 *	1016 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BUILDING (TO BE REMOVED)
BRIDGE

PARCEL NUMBER (25)
UTILITY NUMBER (40)
SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN
VALVE (GAS, WATER, ETC.)
SIGN
OFF-PREMISE SIGN

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

	NON-COMPENSABLE	COMPENSABLE
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		
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	RECORDED AS	(100')
ACRES	AC	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	RIGHT	RT
DOCUMENT NUMBER	DOC	RIGHT OF WAY	R/W
GRID NORTH	GN	SECTION	SEC
HIGHWAY EASEMENT	HE	SQUARE FEET	SF
LEFT	LT	STATE TRUNK HIGHWAY	STH
MONUMENT	MON	STATION	STA
NUMBER	NO	TEMPORARY LIMITED EASEMENT	TLE
PAGE	P	UNITED STATES HIGHWAY	USH
POINT OF TANGENCY	PT	VOLUME	V
PROPERTY LINE	PL		

NOTES:

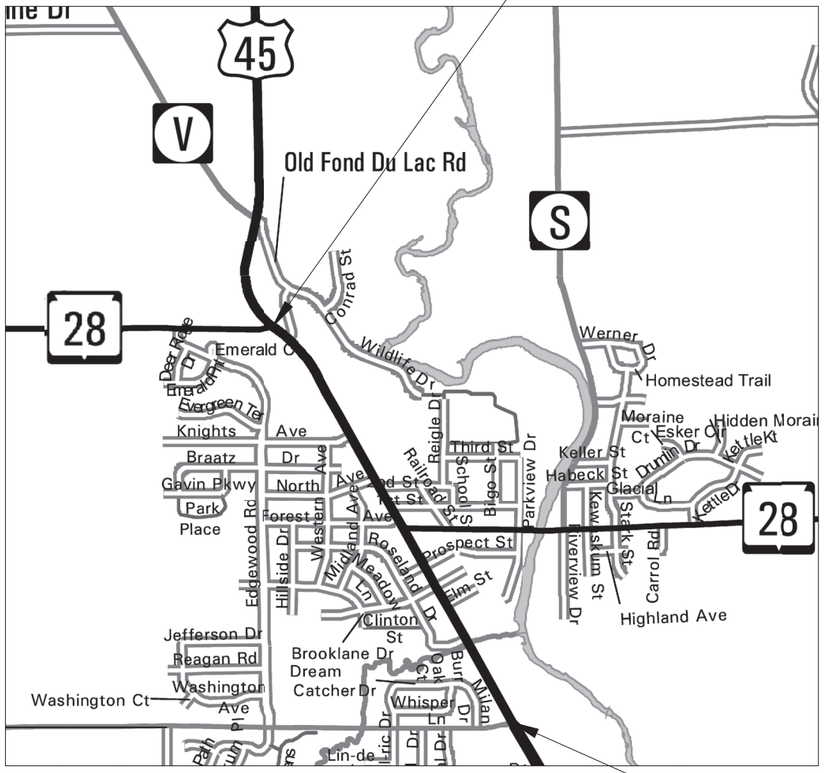
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WASHINGTON COUNTY, NAD83 2011 IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE 2 (¾" REBAR TYP) AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.

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.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, 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 DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

END RELOCATION ORDER
STA 359+69.84
Y = 221281.456
X = 349450.413



BEGIN RELOCATION ORDER
STA 313+44.75
Y = 217196.67
X = 351619.52

LAYOUT
SCALE 0 2000

TOTAL NET LENGTH OF CENTERLINE = 1.212 MI

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
4070-00-20		
FEDERAL PROJECT NUMBER / PROJECT ID	4.01	

PLAT OF RIGHT OF WAY REQUIRED FOR

FOND DU LAC AVENUE
WB CTH H TO WB STH 28

USH 45 — WASHINGTON

CONSTRUCTION PROJECT NUMBER
4070-00-70

APPROVED
FOR
THE DEPARTMENT OF TRANSPORTATION

07/30/20
DATE

PLAT PREPARED BY
AYRES ASSOCIATES

THE SURVEY IS PREPARED AT THE REQUEST OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

THE FIELD SURVEY WAS PERFORMED IN DECEMBER 2018.

THIS SURVEY IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WISCONSIN
NATHAN A. VAUGHN
S-2986
DOUSMAN
WI
LAND SURVEYOR

July 1, 2020
DATE

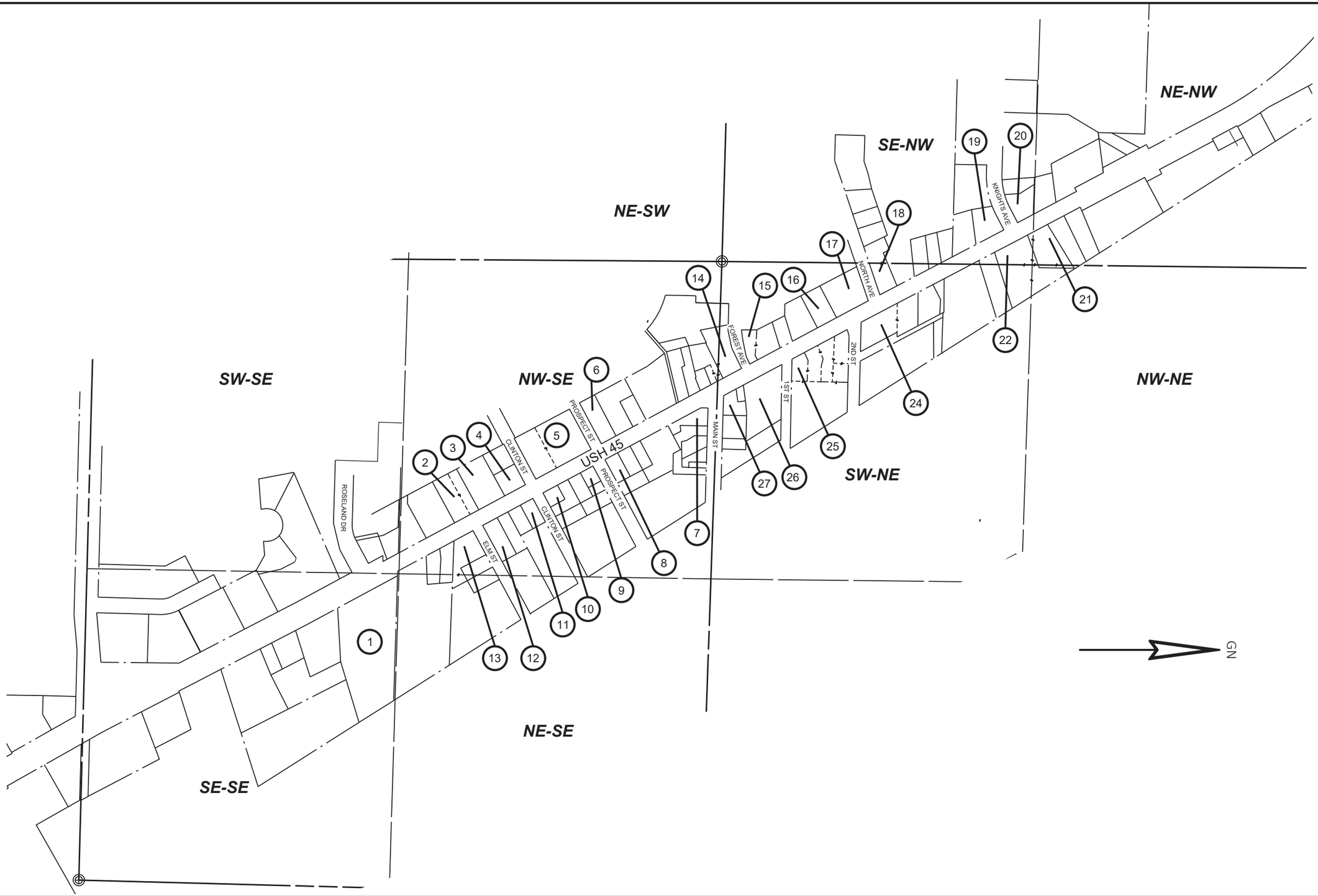
NATHAN VAUGHN, P.L.S.
S-2986

REVISION DATE:
06/16/2021

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	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	TOTAL SQ FT	R/W SQ FT REQUIRED		TOTAL SQ FT REMAINING	PLE SQ FT	TLE SQ FT
					NEW	EXISTING			
1	4.01, 4.04	VILLAGE OF KEWASKUM	TLE	222373	---	---	222373	---	340
2	4.05	JEREMY D LEICHT	TLE	23083	---	---	23083	---	309
3	4.05	RAINDANCE LLC	TLE	24659	---	---	24659	---	85
4 (2)	4.05	WISCONSIN RETAIL PROPERTY MANAGEMENT LLC	FEE/TLE	10061	63	---	9998	---	241
5	4.05	BANK WISCONSIN	FEE	52050	407	---	51643	---	---
6 (2)	4.05	GREGG KRUEGER	FEE/TLE	14113	88	---	13981	---	226
7	4.05	DOUBLE G LLC	TLE	9030	---	---	9030	---	140
8	4.05	RL OPPORTUNITY LLC	FEE/TLE	6985	72	---	6913	---	137
9	4.05	JEFFREY P JAEGER	FEE	4359	177	---	4182	---	---
10	4.05	DENNIS J CONNOR	FEE	13700	142	---	13558	---	---
11	4.05	TCG HOLDINGS 201	FEE	6870	113	---	6757	---	---
12	4.05	JOANNE C & STEVEN SPOERL	FEE/TLE	12186	104	---	12082	---	163
13	4.05	DAVID W KLETTI	FEE/TLE	17897	113	---	17784		70
14	4.06	DUCKHOLLOW LLC	TLE	20359	---	---	20359	---	92
15	4.06	MILLER'S INC	TLE	17814	---	---	17814	---	263
16	4.06	RCKB LLC	FEE/TLE	14062	11	---	14051	---	54
17	4.06	EXODUS TRANSITIONAL CARE FACILITY INC LC	FEE/TLE	25086	170	---	24916	---	99
18	4.06	ROBERT G &, KALLIE J OGI	FEE/TLE	17618	71	---	17547	---	385
19	4.06	DONNA F BUTLER REVOCABLE TRUST	TLE	14066	---	---	14066	---	200
20	4.06	HERO PROPERTY RENTALS LLC	FEE/TLE	12022	24	---	11998	---	74
21	4.06	CHARLES F & SUSAN R MEYER	TLE	21042	---	---	21042	---	76
22	4.06	MITCHELL T OGI & SHIRLEY A OGI LIVING TRUST	TLE	45136	---	---	45136	---	524
24	4.06	ENGELHARDT ENTERPRISES LLC	TLE	31676	---	---	31676	---	1469
25	4.06	ENGELHARDT ENTERPRISES LLC	FEE	88146	356	---	87790	---	---
26	4.06	VILLAGE OF KEWASKUM	FEE/TLE	36227	212	---	36015	---	296
27	4.06	JESSICA LEA & TONY ULRICH TRUNKEL	TLE	8088	---	---	8088	---	217
UTILITY NUMBER	**SHEET NUMBER**	**OWNER (S)**	**INTEREST REQUIRED**						
100	4.05, 4.06	WE ENERGIES	RELEASE OF RIGHTS	---	---	---	---	---	---

4



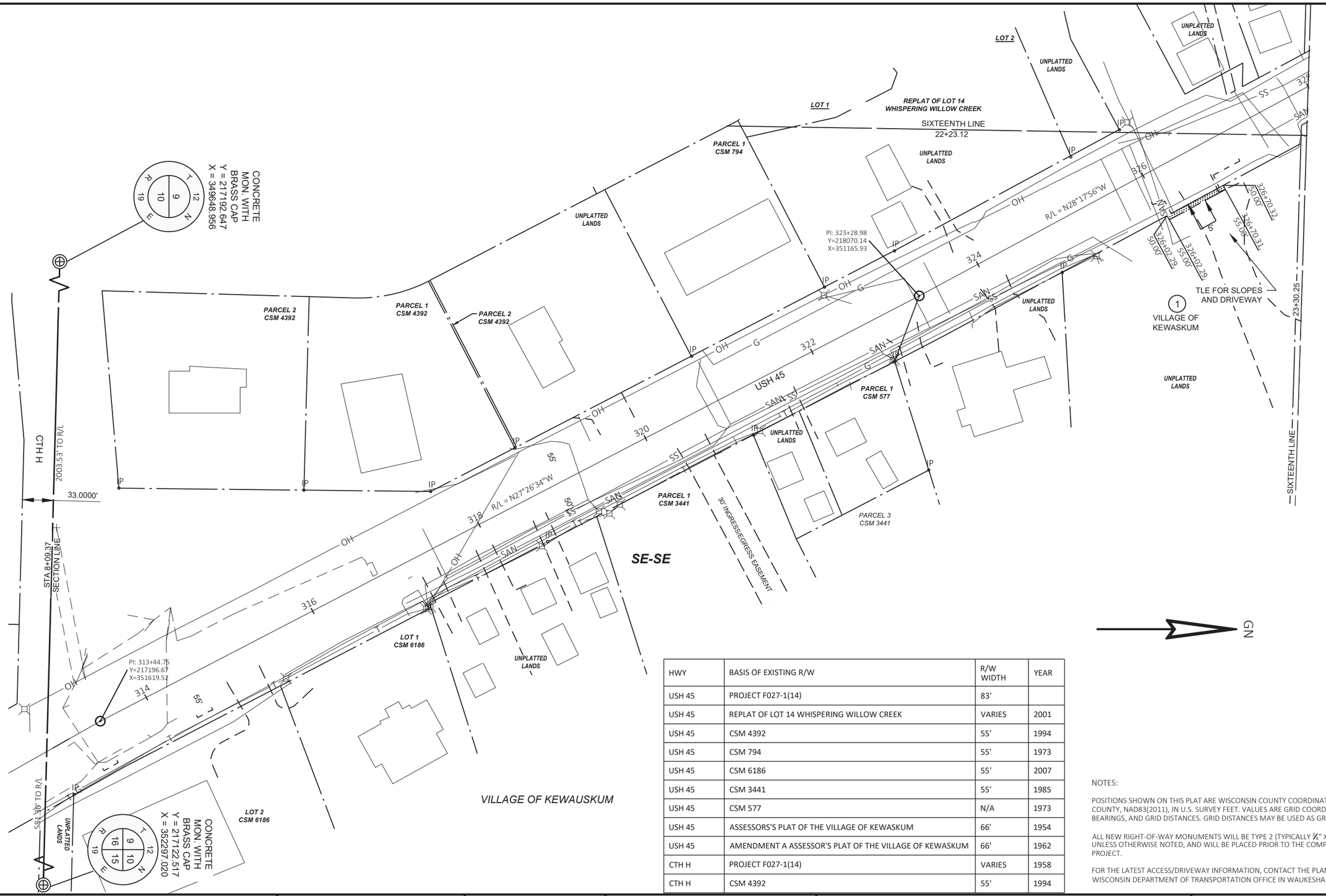
4

REVISION DATE 06/16/2021	DATE July 1, 2020	SCALE, FEET 0 200 400	HWY: USH 45	STATE R/W PROJECT NUMBER 4070-00-20	PLAT SHEET 4.03
			COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 4070-00-70	PS&E SHEET ____ E

FILE NAME : 4.03.DWG
LAYOUT NAME - RW 1 IN 100 FT

PLOT DATE : 10/25/2022 12:43 PM PLOT BY : LARSON, BENJAMIN PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 75



HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT F027-1(14)	83'	
USH 45	REPLAT OF LOT 14 WHISPERING WILLOW CREEK	VARIES	2001
USH 45	CSM 4392	55'	1994
USH 45	CSM 794	55'	1973
USH 45	CSM 6186	55'	2007
USH 45	CSM 3441	55'	1985
USH 45	CSM 577	N/A	1973
USH 45	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	66'	1954
USH 45	AMENDMENT A ASSESSOR'S PLAT OF THE VILLAGE OF KEWASKUM	66'	1962
CTH H	PROJECT F027-1(14)	VARIES	1958
CTH H	CSM 4392	55'	1994

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WASHINGTON COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA

REVISION DATE 06/16/2021	DATE July 1, 2020	SCALE, FEET 0 50 100	HWY: USH 45	STATE R/W PROJECT NUMBER 4070-00-20	PLAT SHEET 4.04
			COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 4070-00-70	PS&E SHEET ____ E

FILE NAME : 4.04.DWG
LAYOUT NAME - RW 1 IN 100 FT

PLOT DATE : 10/25/2022 12:43 PM PLOT BY : LARSON, BENJAMIN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	66'	1954
USH 45	AMENDMENT A ASSESSOR'S PLAT OF THE VILLAGE OF KEWASKUM	66'	1962
USH 45	CSM 833	66'	1997
ELM ST	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	VARIES	1954
ELM ST	CSM 833	VARIES	1973
CLINTON ST	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	50'	1954
PROSPECT ST:	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	49.5'	1954
Main St.	TPP 4060-05-20	64.5'	2013

COURSE TABLE		
553-552	N61° 40' 48"E	2.00'
552-510	S28° 19' 12"E	21.88'
510-511	S83° 59' 04"E	13.79'

COURSE TABLE		
516-517	S61° 56' 37"W	1.00'
517-557	N28° 19' 10"W	14.25'
557-558	S61° 40' 48"W	11.00'
558-559	N28° 19' 01"W	4.07'

COURSE TABLE		
522-554	N28° 19' 12"W	3.00'
554-555	N61° 40' 48"E	15.00'
555-556	N28° 19' 12"W	11.32'
556-523	N61° 40' 48"E	3.00'

CONCRETE MON. WITH BRASS CAP
Y = 219855.844
X = 349667.521

S88° 00' 58"E 547.00' TO RL

PI: 343+29.79
Y=219831.62
X=350217.02

2153.23' TO RL

343+35.79

QUARTER LINE

MAIN STREET

S88° 00' 58"E

TLE FOR SLOPES

DOUBLE G LLC

KRUEGER

BANK WISCONSIN

RAINDANCE LLC

WISCONSIN RETAIL PROPERTY MANAGEMENT LLC

LEICHT

TLE FOR SLOPES AND DRIVEWAY

RL OPPORTUNITY LLC

TLE FOR SLOPES

JAEGER

CONNOR

TCG HOLDINGS 201

SPOERL

KLETTI

TLE FOR SLOPES

TLE FOR SLOPES

ASSESSOR'S PLAT OF THE VILLAGE OF KEWASKUM

AMENDMENT A ASSESSOR'S PLAT OF THE VILLAGE OF KEWASKUM

PARCEL 1 CSM 833

PARCEL 2 CSM 833

BLOCK 12

BLOCK 15

BLOCK 19

BLOCK 18

BLOCK 17

BLOCK 16

NW-SE

PROSPECT ST

CLINTON ST (RW VARIES)

ELM ST

USH 45

SIXTEENTH LINE

STA 22+23.12

328+00.09

R/L = N28° 19' 12"W

R/L = N28° 17' 56"W

N28° 19' 12"W

N61° 40' 48"E

S61° 46' 56"W

N61° 01' 30"E

S61° 56' 57"W

N61° 58' 35"E

N61° 54' 53"E

N16° 40' 18"E 21.22'

N16° 48' 41"E 21.16'

N16° 47' 50"E 26.56'

S70° 03' 42"E 26.78'

S16° 51' 09"W 30.15'

N73° 12' 07"W 17.01'

PI: 331+61.61
Y=218803.26
X=350771.20

VILLAGE OF KEWAUSKUM

GN

100 WE ENERGIES GAS
NO EASEMENT OF RECORD - PARCEL 8

CONCRETE MON. WITH BRASS CAP
Y = 219762.372
X = 352366.140

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WASHINGTON COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR USH 45: ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM, AMENDMENT A ASSESSOR'S PLAT OF THE VILLAGE OF KEWASKUM, AND CSM 833,
EXISTING HIGHWAY RIGHT OF WAY FOR ELM ST: ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM AND CSM 833.
EXISTING HIGHWAY RIGHT OF WAY FOR CLINTON ST AND PROSPECT ST: ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM

REVISION DATE: 06/16/2021	DATE July 1, 2020	SCALE, FEET 0 50 100	HWY: USH 45	STATE R/W PROJECT NUMBER 3070-00-20	PLAT SHEET 4.05	
			COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 3070-00-70	PS&E SHEET ____	E

FILE NAME : 4.05.DWG
LAYOUT NAME - RW 1 IN 100 FT

PLOT DATE : 10/25/2022 12:44 PM PLOT BY : LARSON, BENJAMIN PLOT NAME : PLOT SCALE : 1 IN:100 FT

212

WISDOT/CADDS SHEET 75

CONCRETE MON. WITH BRASS CAP
Y = 219855.844
X = 349667.521

CONCRETE MON. WITH BRASS CAP
Y = 219762.372
X = 352366.140

COURSE TABLE

620-621	S61° 53' 25"W	2.00'
621-622	N28° 06' 34"W	20.00'
622-623	N61° 53' 26"E	2.00'

COURSE TABLE

624-625	N27° 56' 27"W	11.77'
625-626	N62° 03' 32"E	2.00'

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT 4070-04-20	83'	1997
USH 45	PROJECT T027-1(13)	83'	1999
USH 45	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	83'	1954
USH 45	AMENDMENT A ASSESSOR'S PLAT OF THE VILLAGE OF KEWASKUM	VARIES	1973
USH 45	CSM 5235	N/A	2000
USH 45	CSM 3461	66'	1989
FOREST AVE	CSM 5235	VARIES	2000
FOREST AVE	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	VARIES	1954
NORHT AVE	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	55'	1954
1ST ST	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	VARIES	1954
2ND ST	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	50'	1954
KNIGHTS AVE	ASSESSORS'S PLAT OF THE VILLAGE OF KEWASKUM	66'	1954
KNIGHTS AVE	CSM 3461	66'	1989

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WASHINGTON COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ⅝" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA

REVISION DATE 06/16/2021	DATE July 1, 2020	HWY: USH 45	STATE R/W PROJECT NUMBER 4070-00-20
		COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 4070-00-70

PLAT SHEET 4.06
PS&E SHEET ____ E

FILE NAME : 4.06.DWG
LAYOUT NAME - RW 1 IN 100 FT
PLOT DATE : 10/25/2022 12:49 PM PLOT BY : LARSON, BENJAMIN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

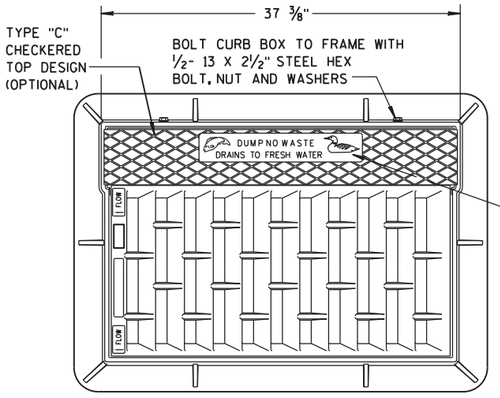
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
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
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
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
08D17-06	MANHOLES, MANHOLE & INLET COVERS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09B02-10	CONDUIT
09B04-12	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-09E	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-09H	TYPE 10 SPECIAL POLE 45' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
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
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
13C15-08A	CONCRETE BASE
13C15-08B	CONCRETE BASE
13C19-03	HMA LONGITUDINAL JOINTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-08A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-08B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)

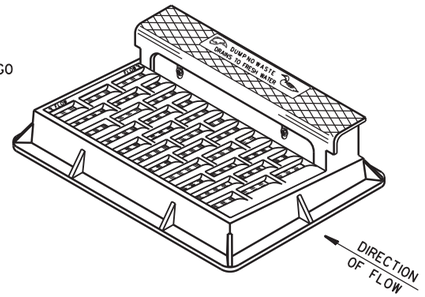
6

Standard Detail Drawing List

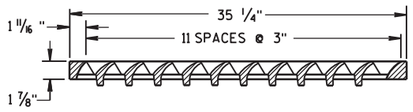
15D30-09A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL

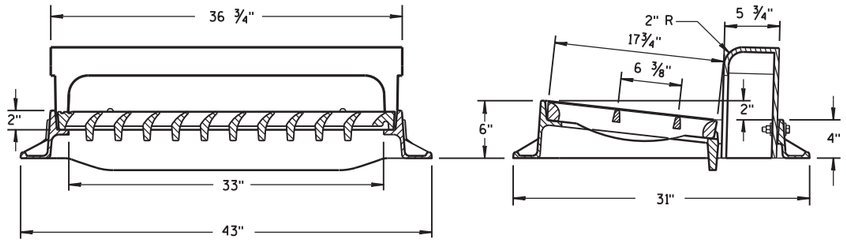


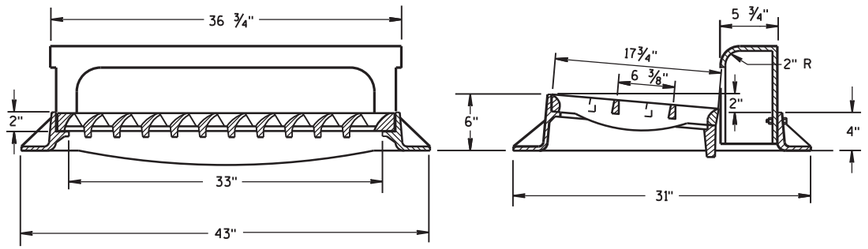
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

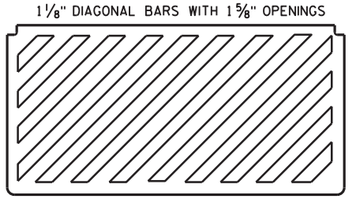






TYPE "H"

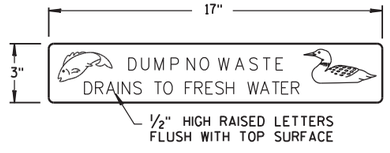
NOTE: EITHER CASTING IS ACCEPTABLE



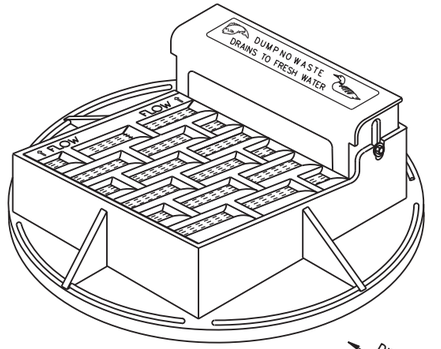
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

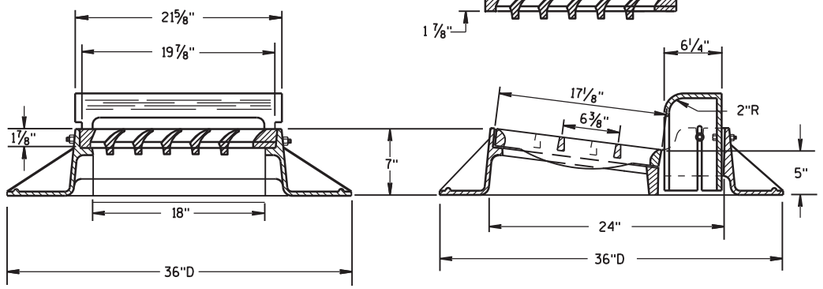


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



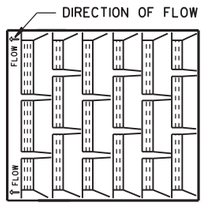
TYPE "A"

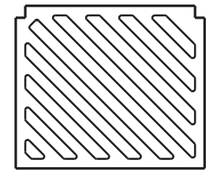
GENERAL NOTES

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.

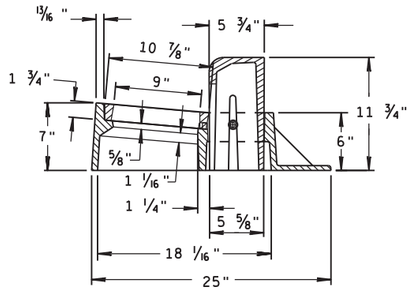


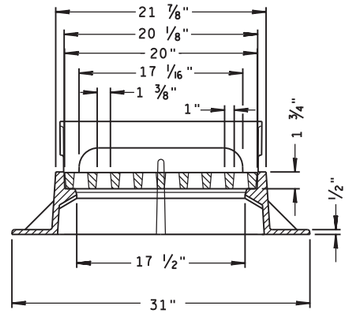


SPECIAL GRATE FOR TYPE "A" COVER

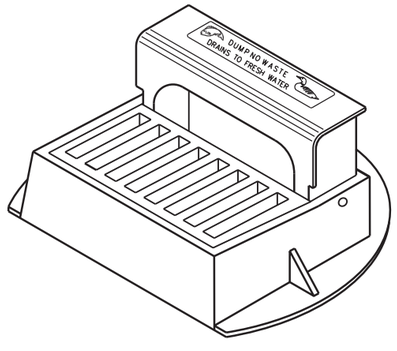
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"

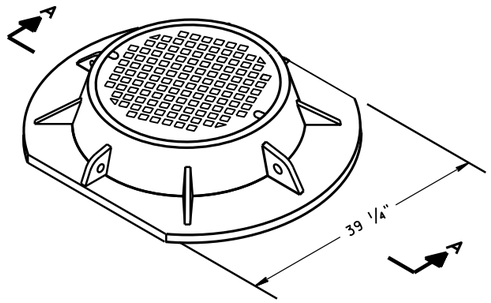


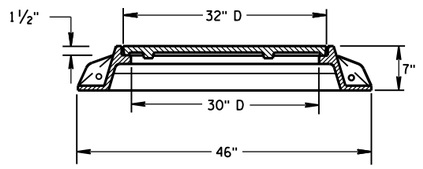
INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

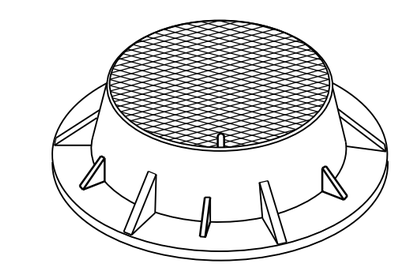
APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

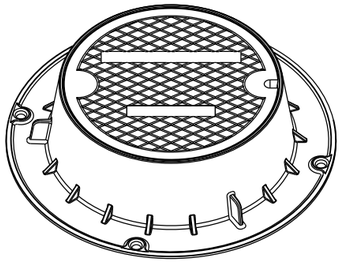
S.D.D. 8 A 5-19a

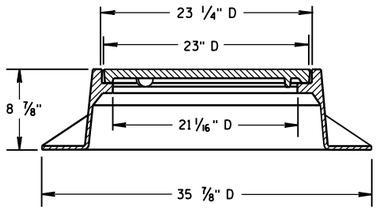


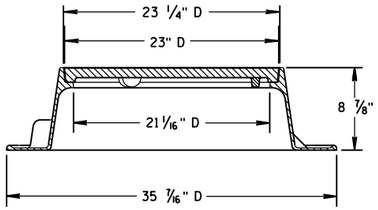


SECTION A-A
TYPE "K"









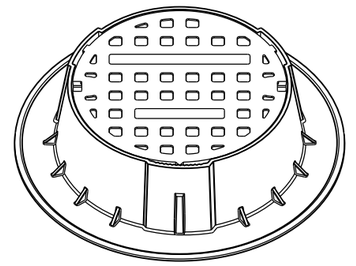
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

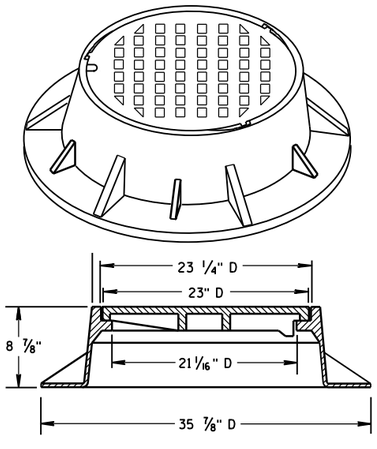
GENERAL NOTES

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.

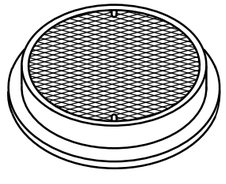
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

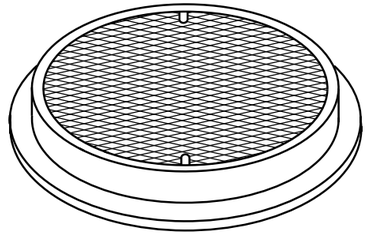
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

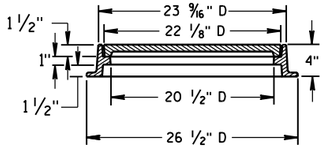




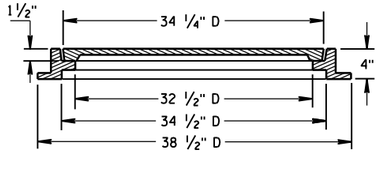
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



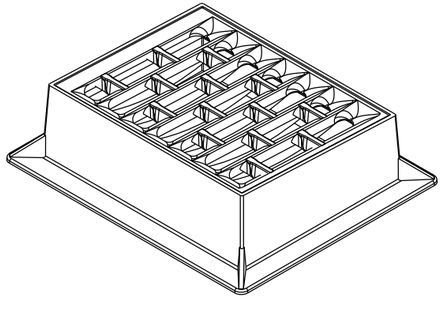


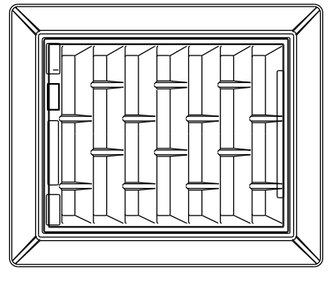


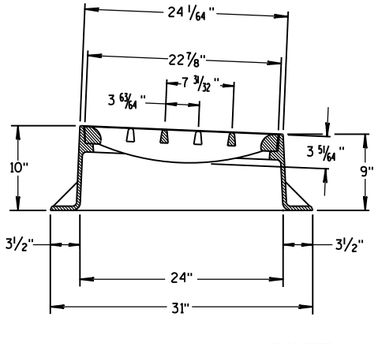
TYPE "L"

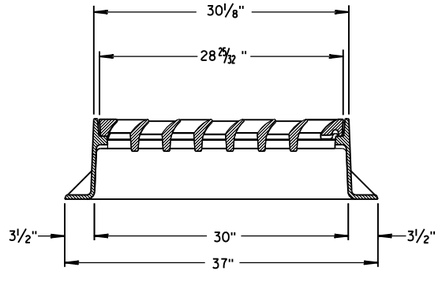


TYPE "M"









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

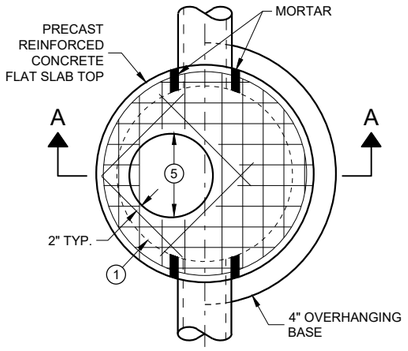
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

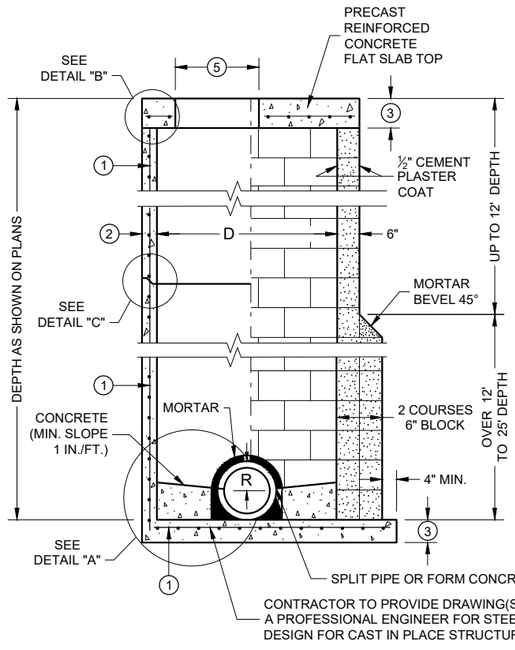
S.D.D. 8 A 5-19d

6

S.D.D. 8 A 5-19d



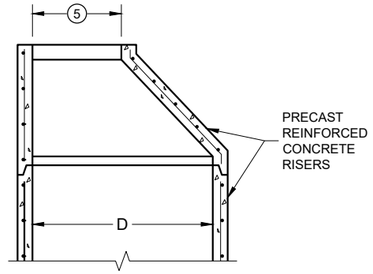
PLAN VIEW
CIRCULAR OPENING



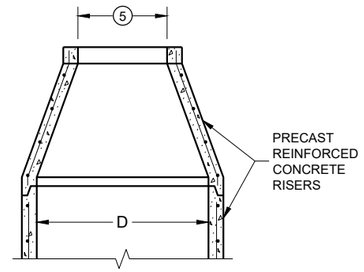
SECTION A - A

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

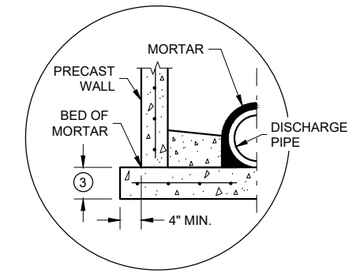
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

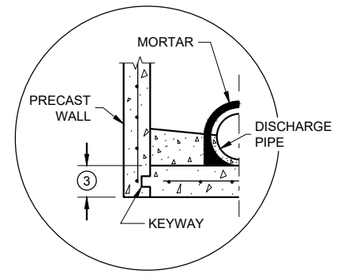
PIPE MATRIX

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.

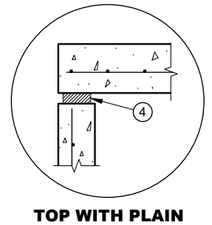


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

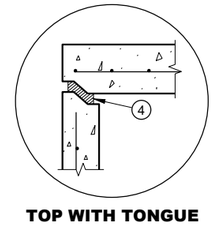


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

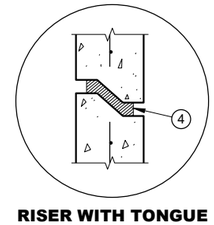
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **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".

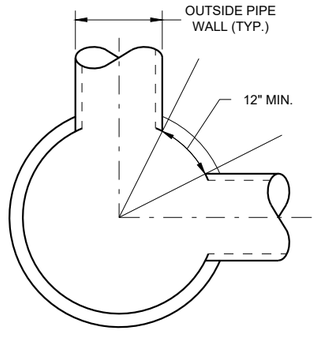
(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(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.

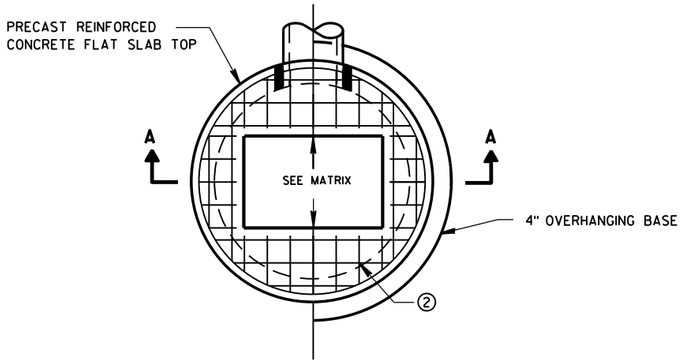


MINIMUM HORIZONTAL PIPE SEPARATION

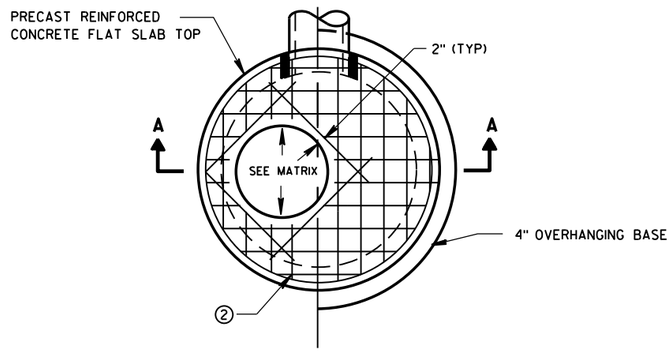
MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

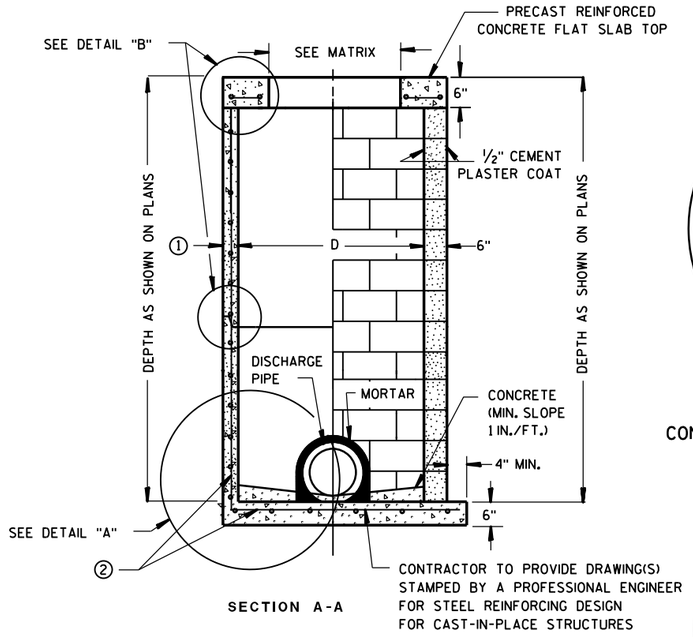
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
218
FHWA



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

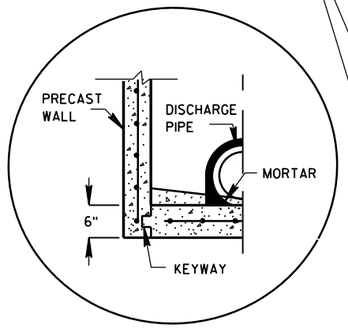


SECTION A-A

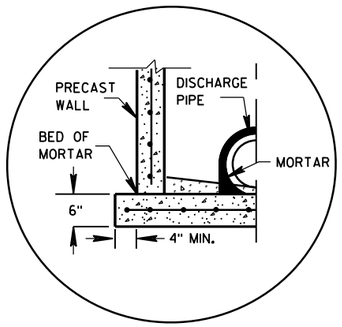
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

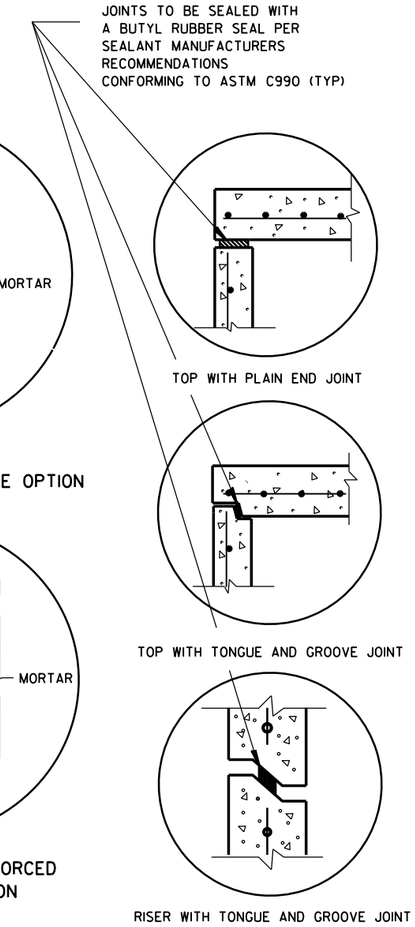


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

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.

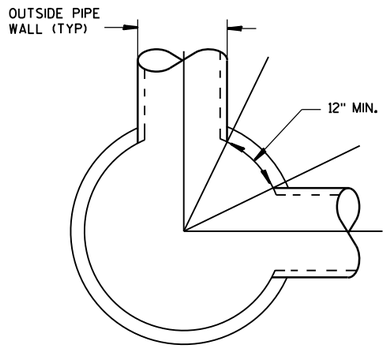
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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

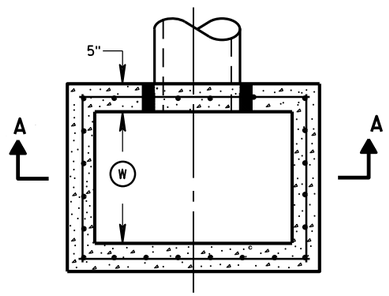
APPROVED
Sept., 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | ENT UNIT SUPERVI
FHWA

6

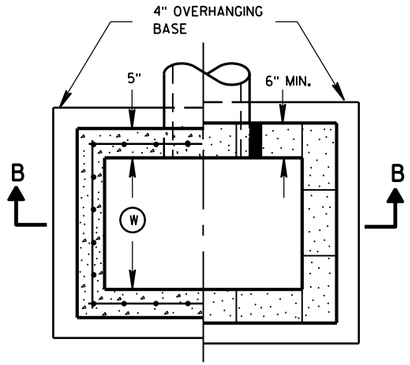
S.D.D. 8 C 6-2

6

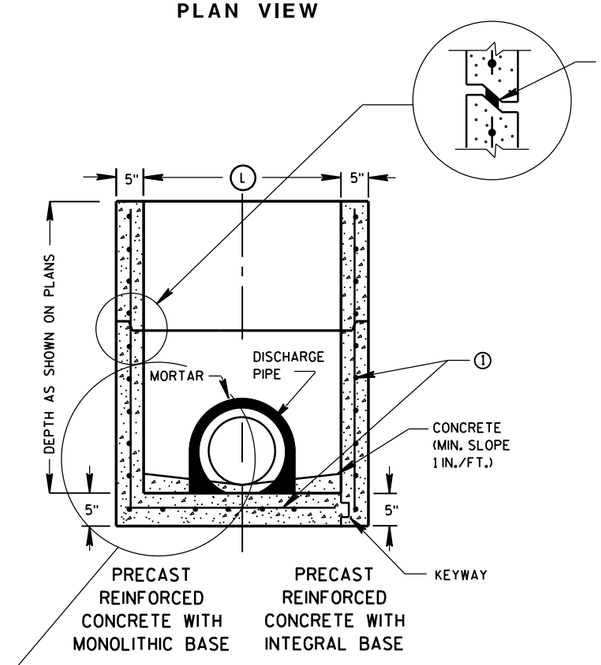
S.D.D. 8 C 6-2



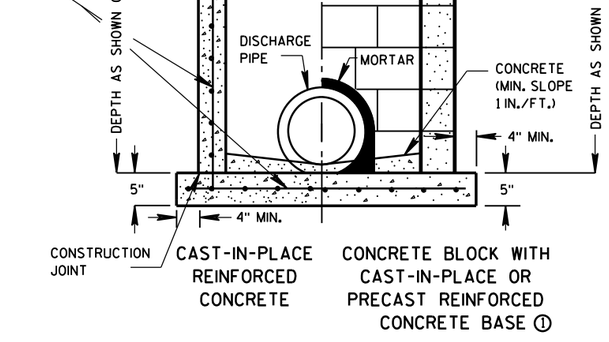
PLAN VIEW



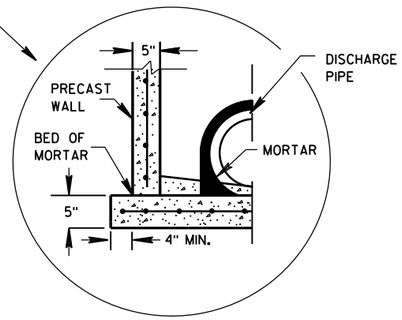
PLAN VIEW



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.

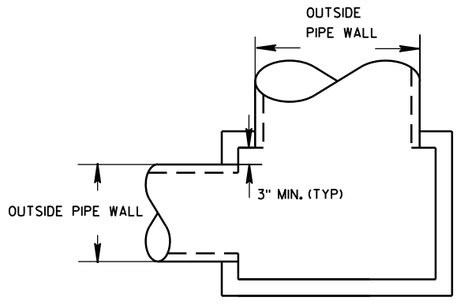
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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



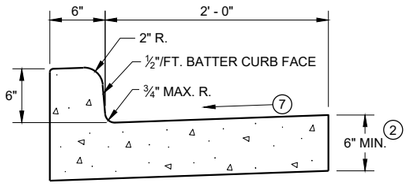
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

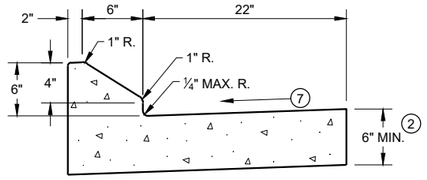
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

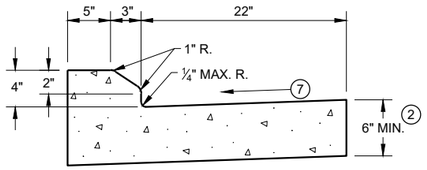
6
S.D.D. 8 C 7-2



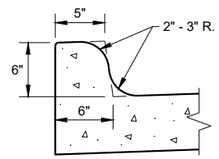
TYPES A (1) & D



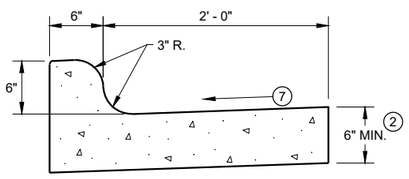
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

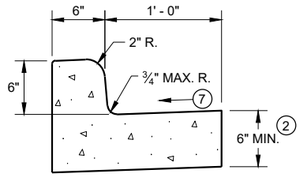


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



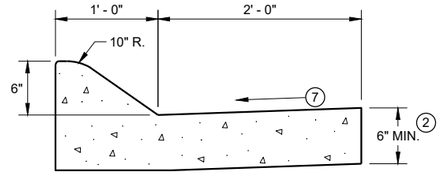
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

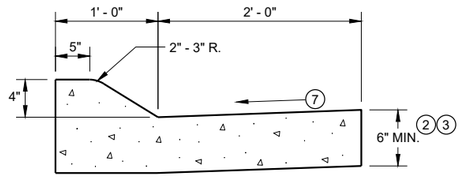


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

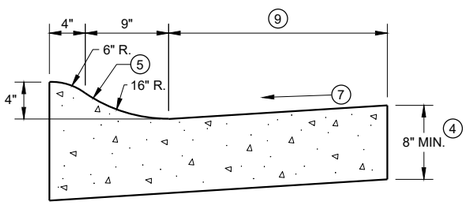


6" SLOPED CURB TYPES A (1) & D



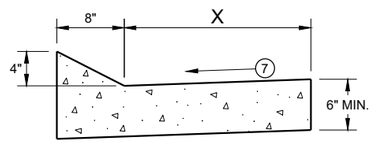
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

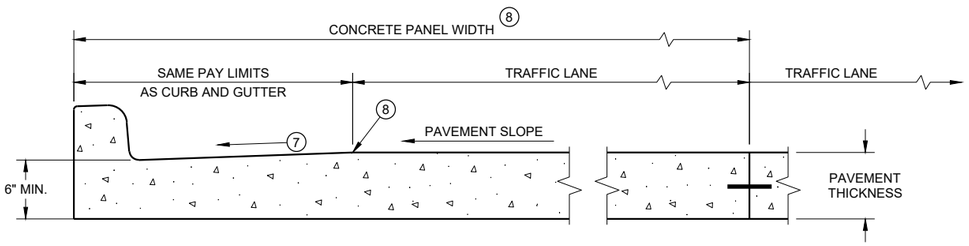


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

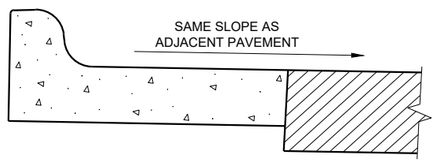
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

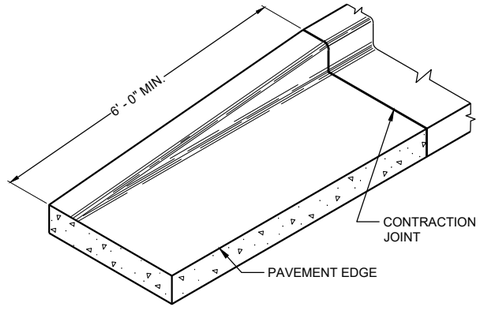
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(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

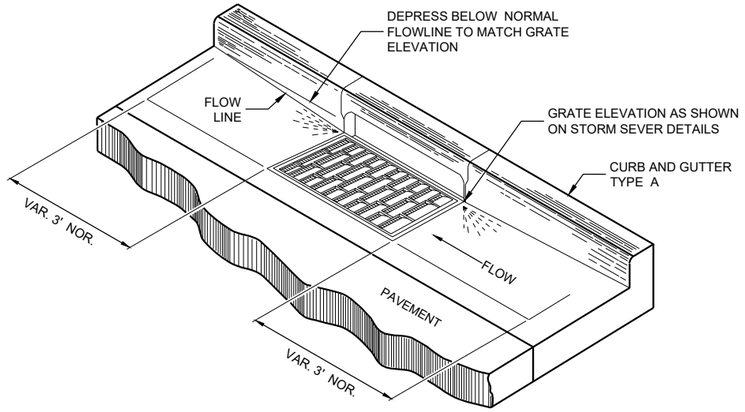
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 08D01 - 23a



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.

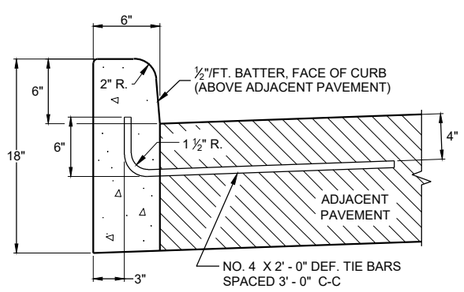
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

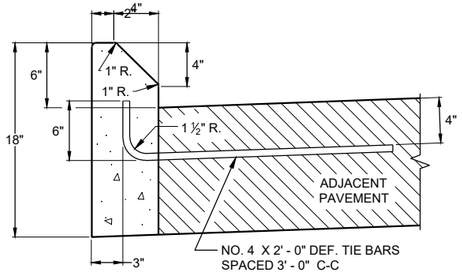
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

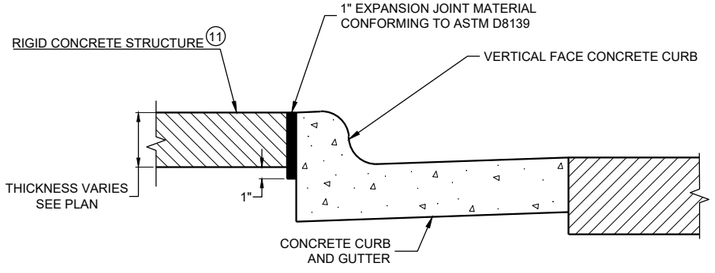


TYPES A (1) & D

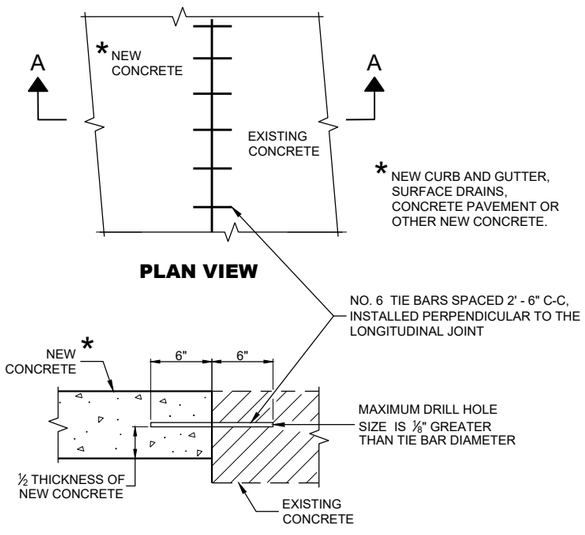


TYPES G (1) & J

CONCRETE CURB



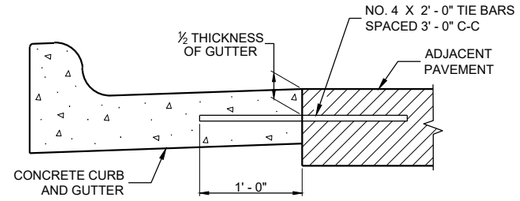
EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



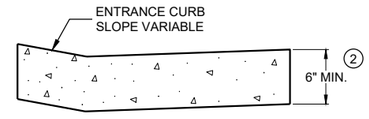
PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

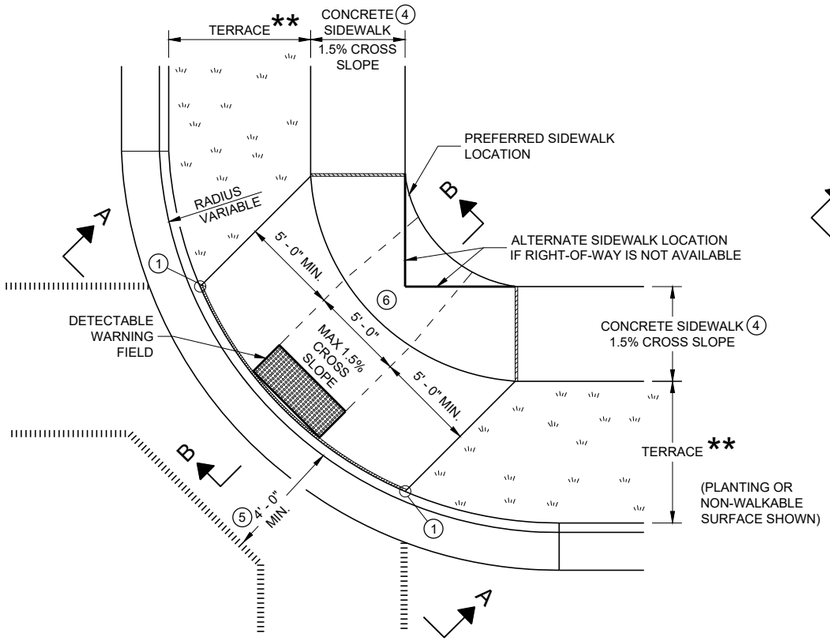
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

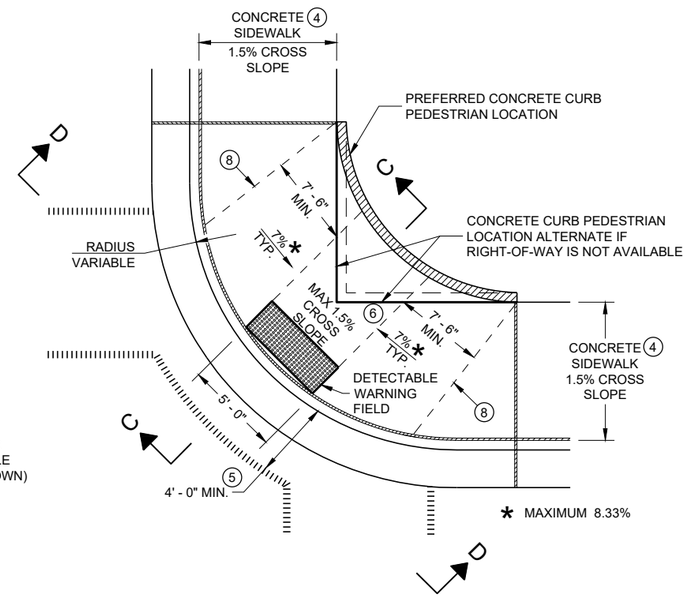
SDD08D01 - 23b



PLAN VIEW

CURB RAMP TYPE 1

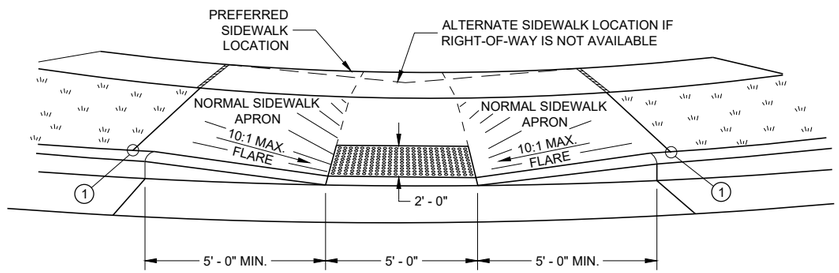
(CENTER OF CORNER RADIUS)



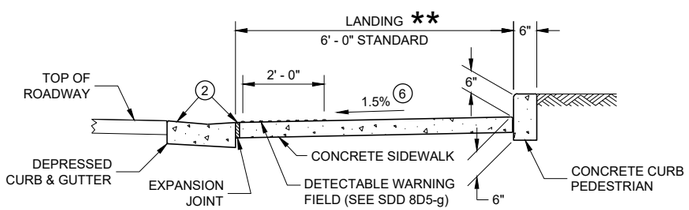
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

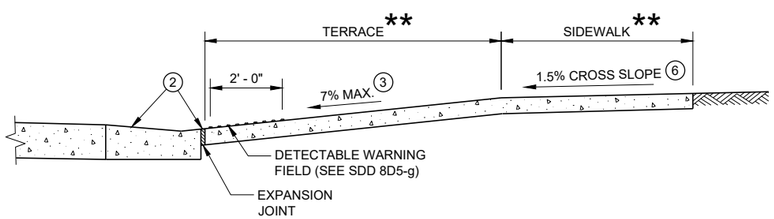


VIEW A - A FOR TYPE 1

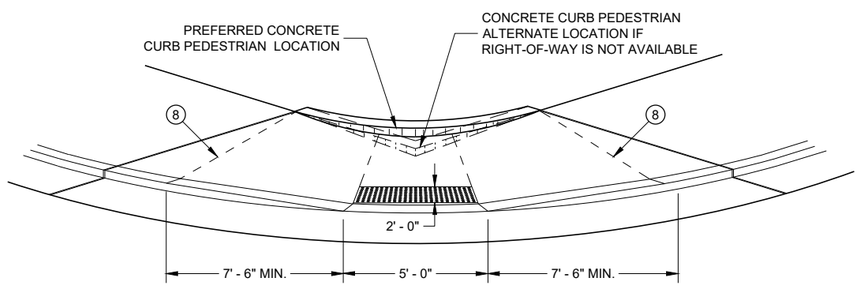


SECTION C - C FOR TYPE 1 - A

** 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

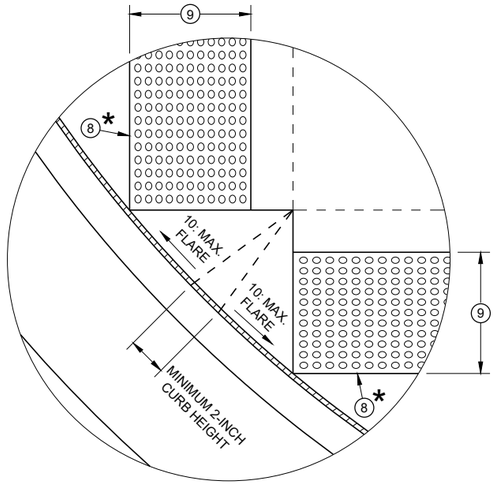
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

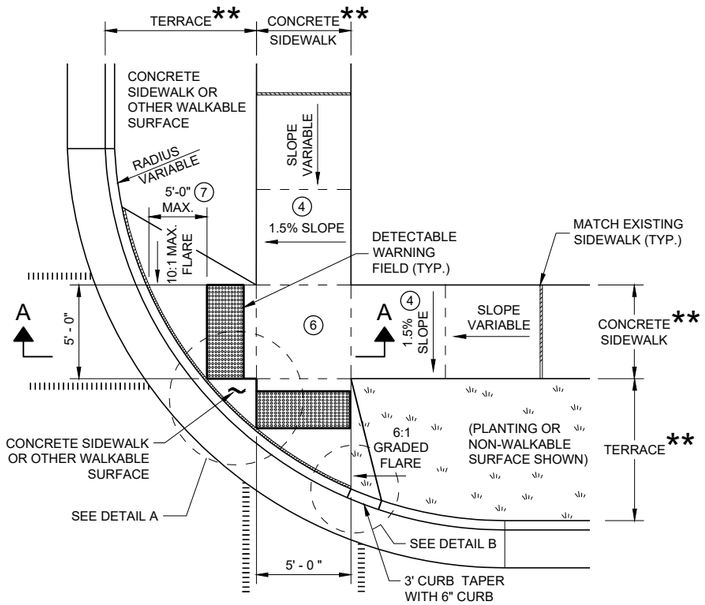
SDD 08D05 - 20a

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.

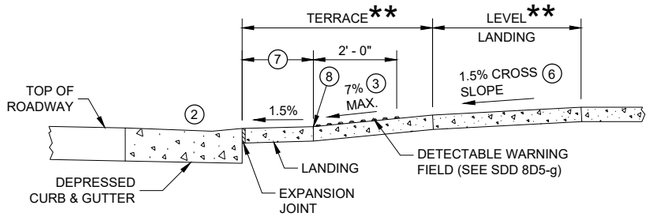
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

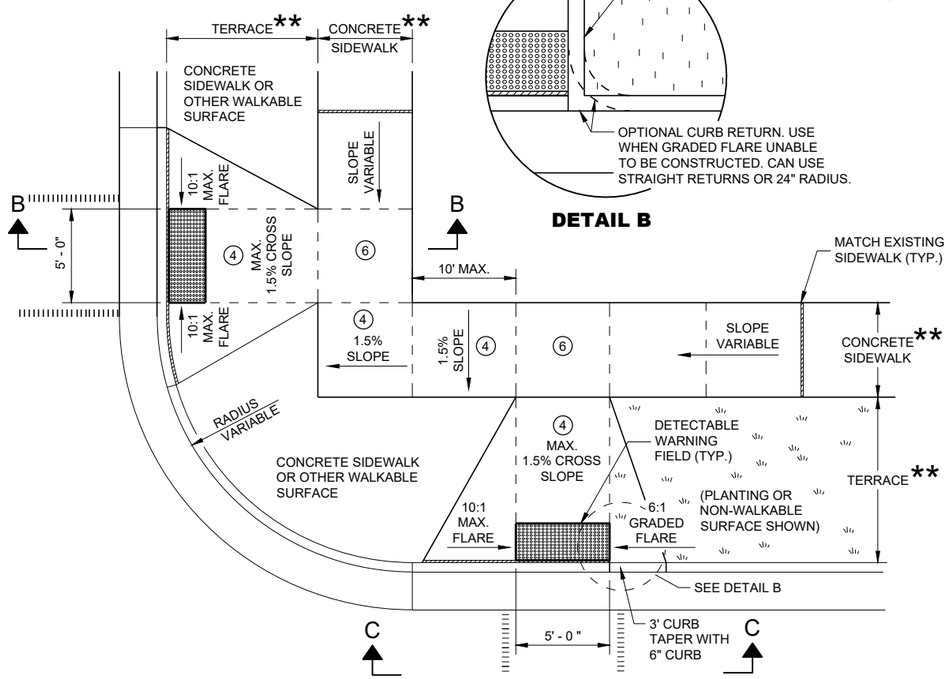
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



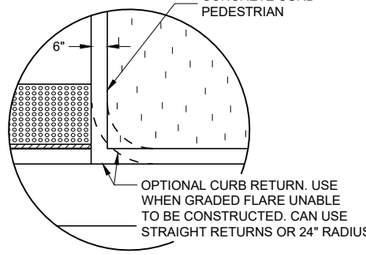
SECTION A - A FOR TYPE 2

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

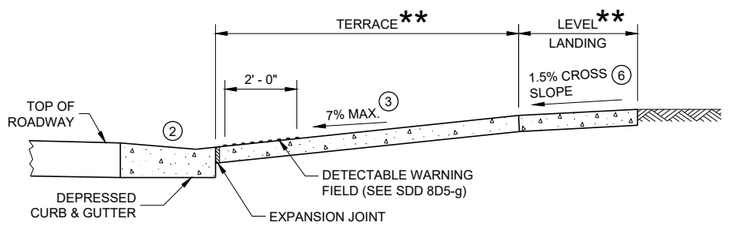
** WIDTH SHOWN ELSEWHERE IN THE PLANS



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



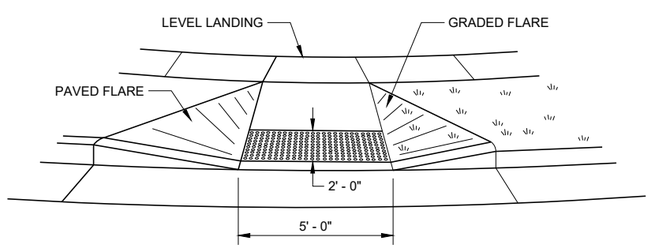
DETAIL B



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



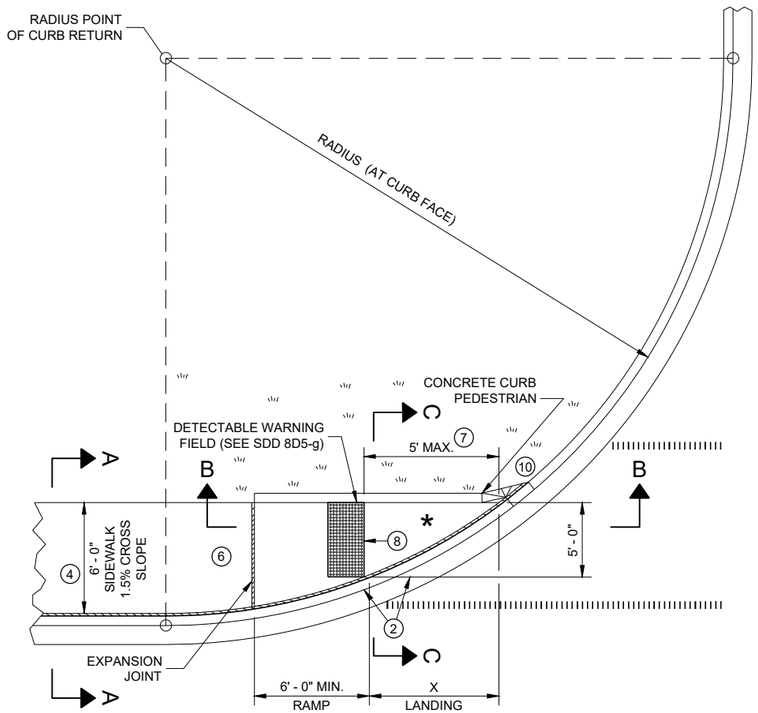
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

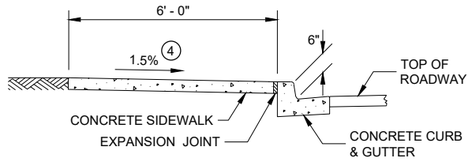


PLAN VIEW

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.

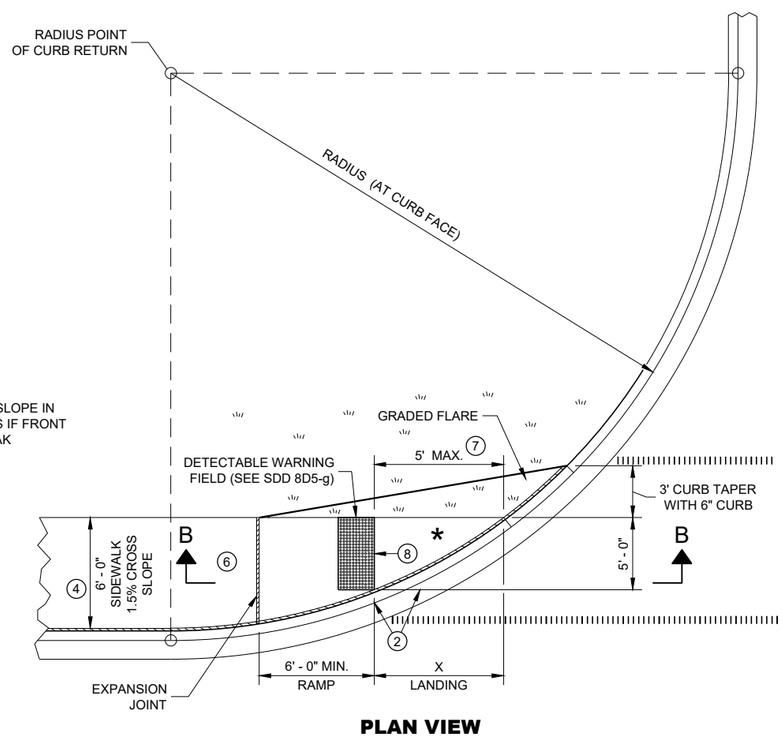
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

½" EXPANSION JOINT SIDEWALK

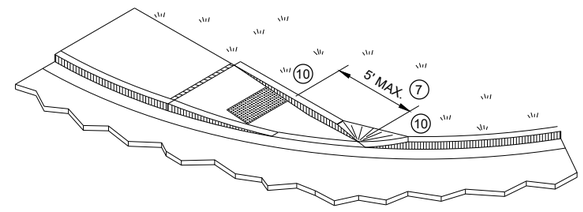
CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)

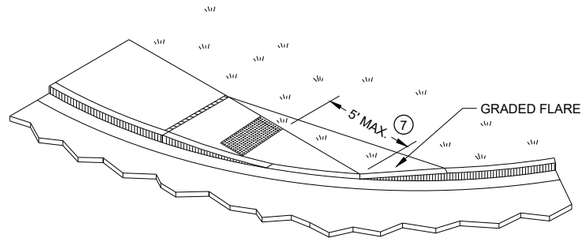


PLAN VIEW

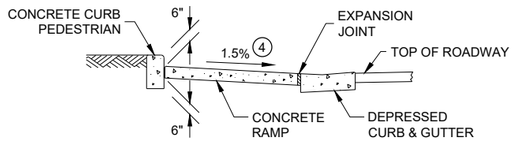
CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A

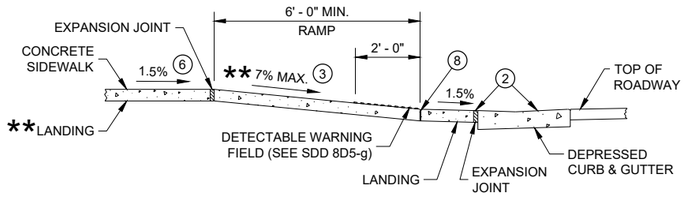


ISOMETRIC VIEW FOR TYPE 4A1



SECTION C - C FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK



SECTION B - B FOR TYPE 4A AND TYPE 4A1

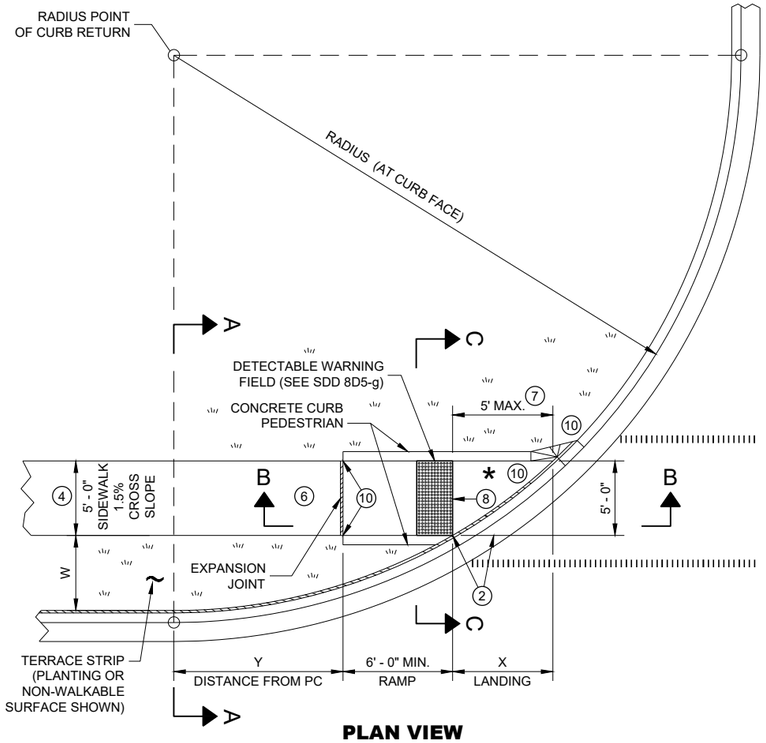
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

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

SECTION C - C FOR TYPE 4B

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.

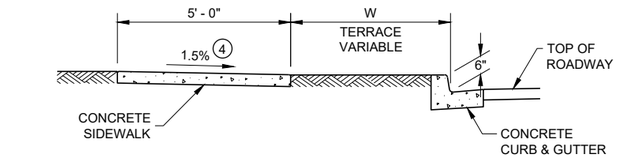
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

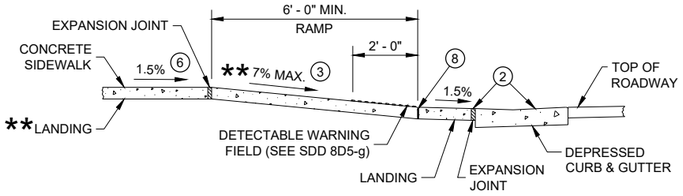
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



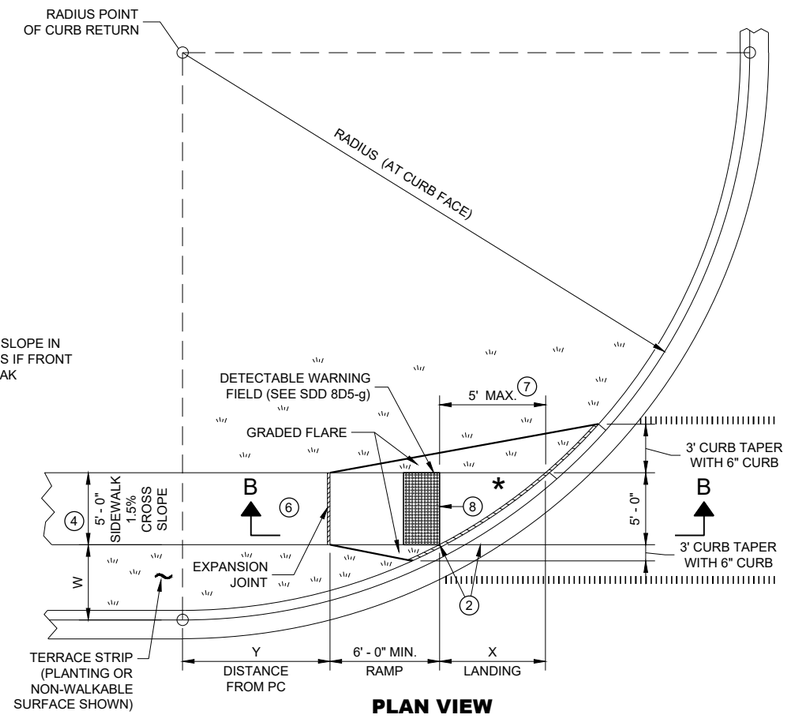
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

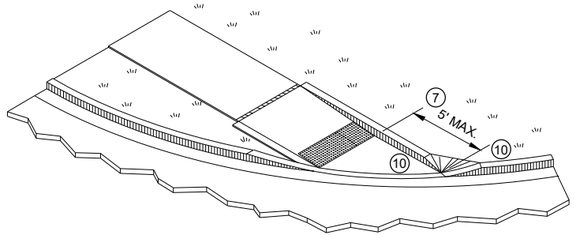
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

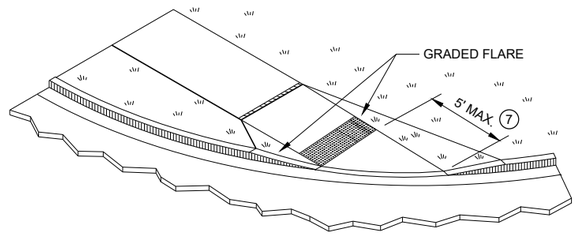


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



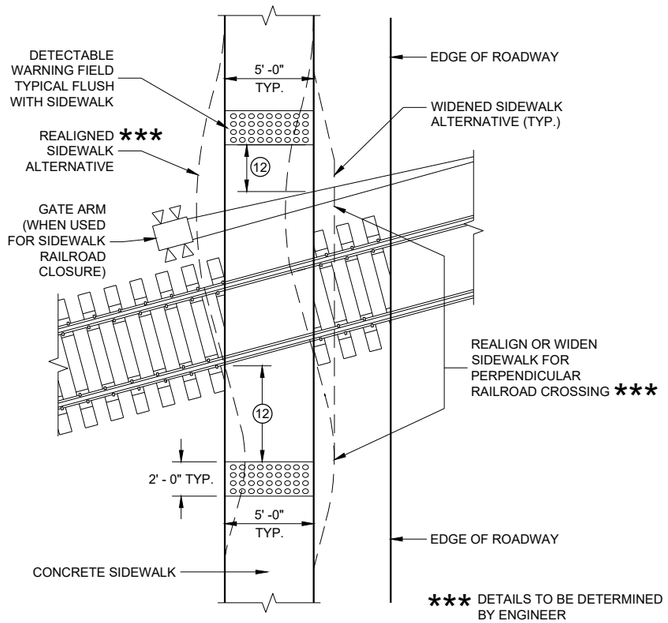
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

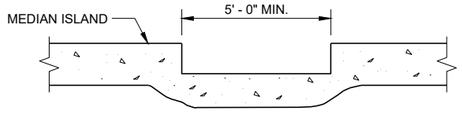
6

SDD 08D05 - 20d

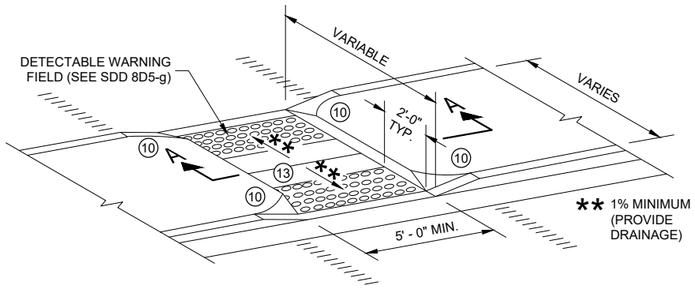


CURB RAMP TYPE 8

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.

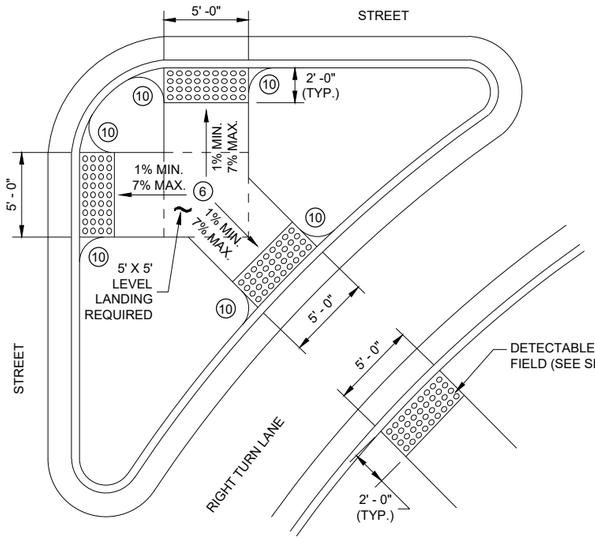
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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

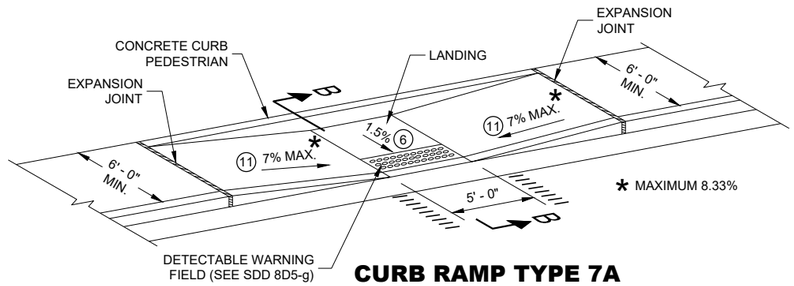
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

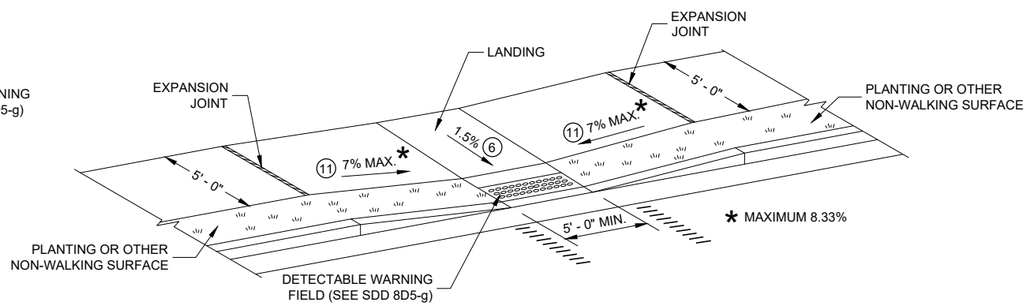
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

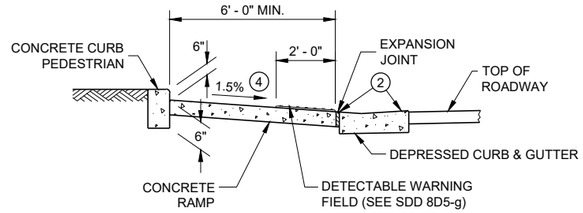
MID BLOCK CROSSING



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

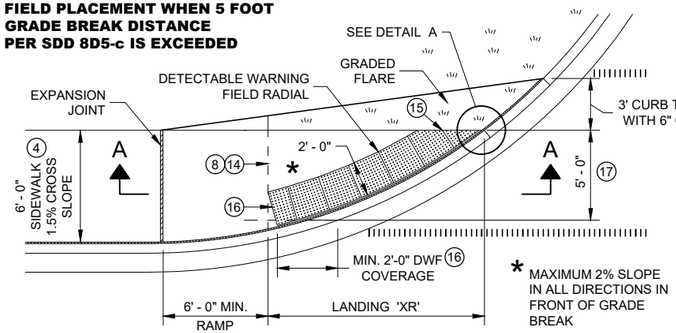
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20e

SDD 08D05 - 20e

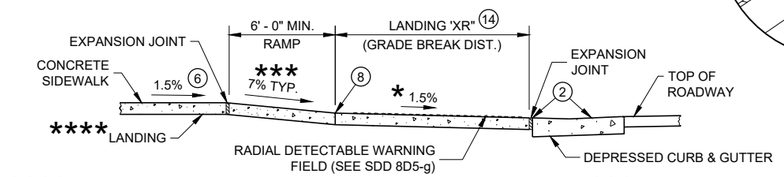
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

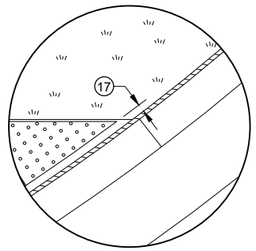
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

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.

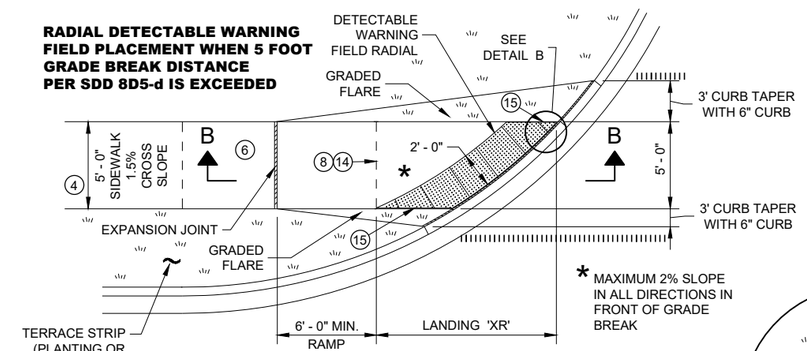
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(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.

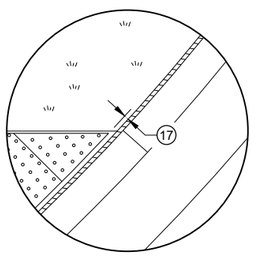
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



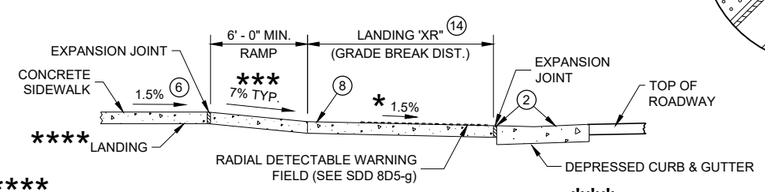
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

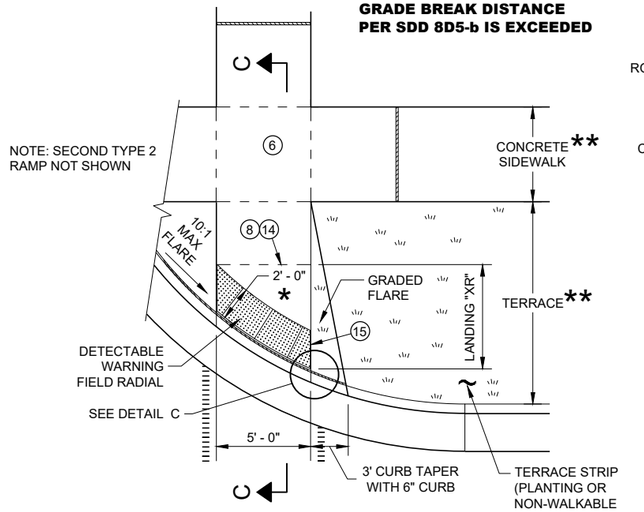


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

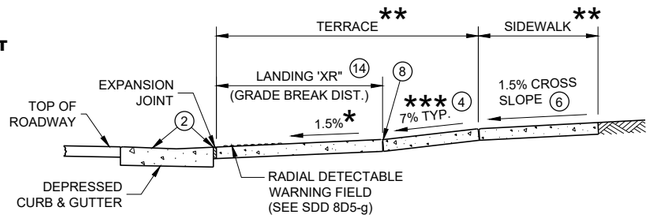


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

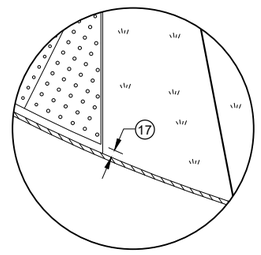


SECTION C - C FOR TYPE 2

* 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

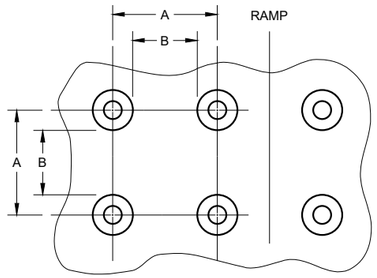
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20f

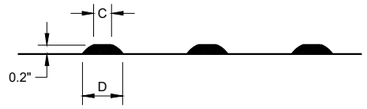
SDD 08D05 - 20f

	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.

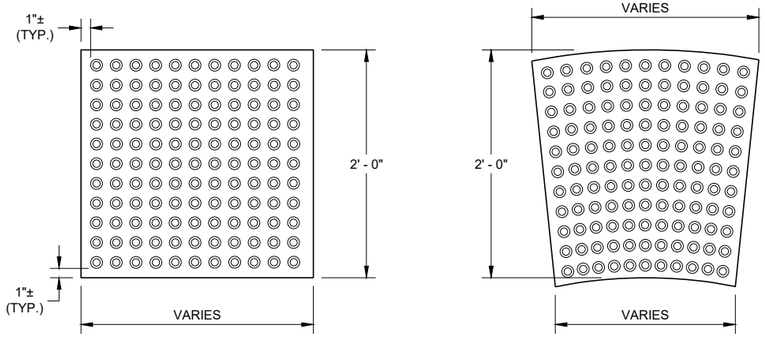


PLAN VIEW



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.

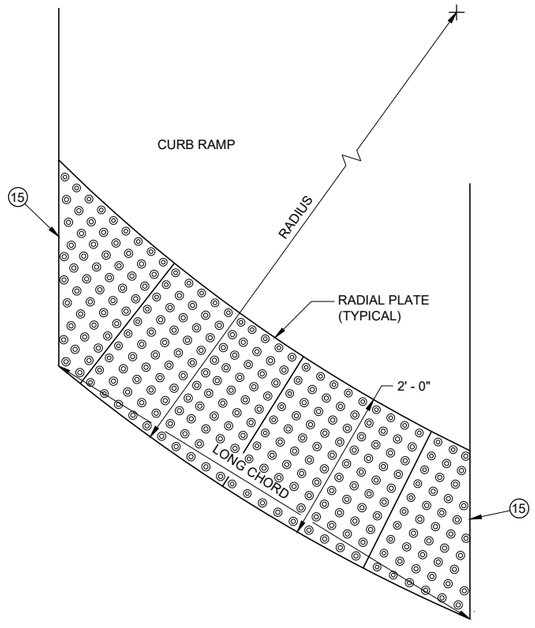
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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.

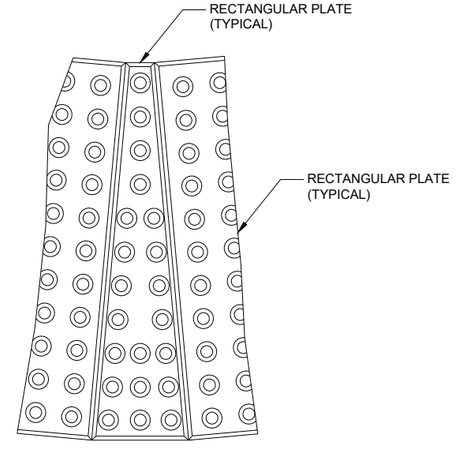
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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



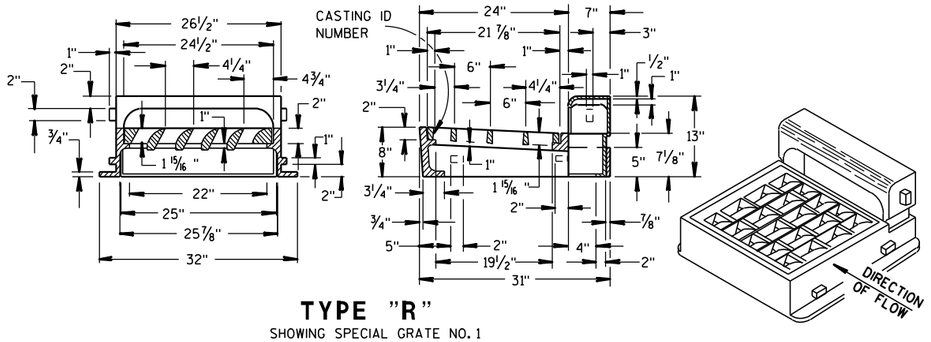
PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

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

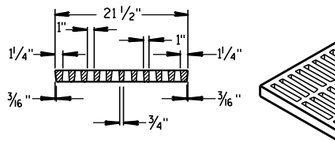
6
SDD 08D05 - 20g

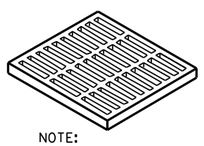
INLET COVERS



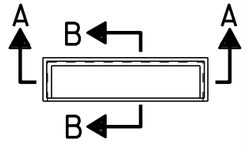
TYPE "R"

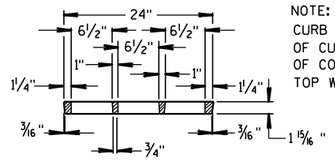
SHOWING SPECIAL GRATE NO. 1
(TO BE NOTED AS R-1 IN DRAINAGE TABLE)



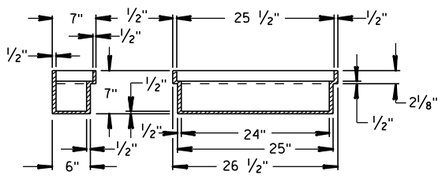


(APPROX. WEIGHT - 510 LBS.)
FRAME..... 245 LBS.
CURB..... 120 LBS.
GRATE..... 145 LBS.





NOTE:
CURB PLUG USED IN PLACE OF CURB BOX IN ABSENCE OF CONC. CURB. FILL TO TOP WITH CONCRETE.



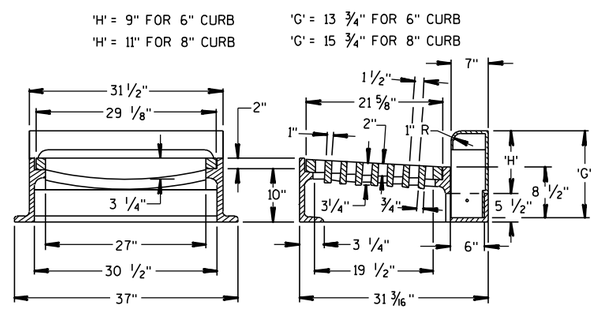
GRATE FOR TYPE "R" INLET COVER

(GRATE..... 150 LBS.)
(TO BE USED UNLESS OTHERWISE NOTED IN DRAINAGE TABLE)

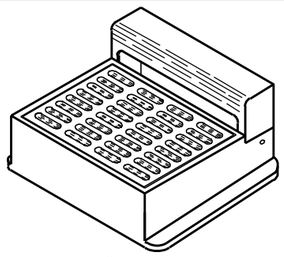
SECTION B-B SECTION A-A

SPECIAL CURB PLUG "P"

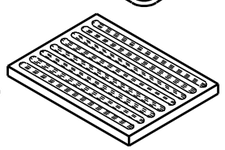
(CURB PLUG..... 85 LBS.)
(TO BE NOTED AS R-P IN DRAINAGE TABLE)



TYPE "W"



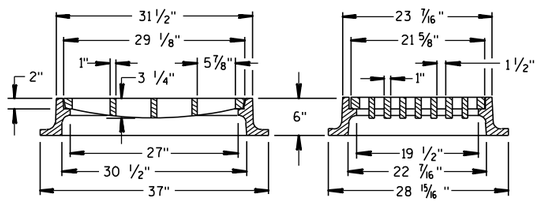
(APPROX. WEIGHT - 670 LBS.)
FRAME..... 350 LBS.
CURB BOX..... 135 LBS.
GRATE..... 185 LBS.



ALTERNATE GRATE

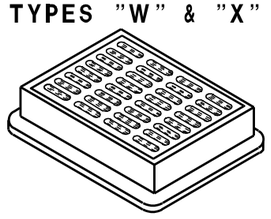
(FOR EXPRESSWAY RAMPS)

TYPES "W" & "X"

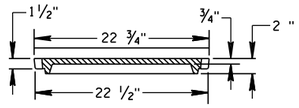


TYPE "X"

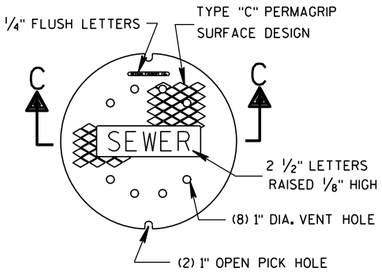
(APPROX. WEIGHT - 470 LBS.)

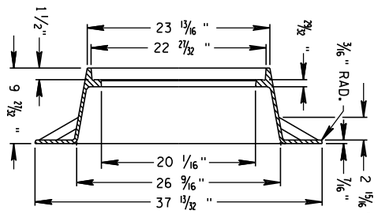


MANHOLE COVER



SECTION C-C





TYPE "Q"

(APPROX. WEIGHT - 290 LBS.)

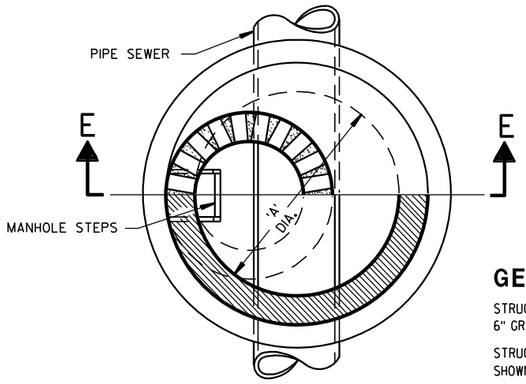
TABLE OF DIMENSIONS

TYPE	'A'	'B'	'C'
11	3'-6"	2'-8"	12" - 36"*
12	4'-0"	3'-8"	12" - 42"**
13	5'-0"	5'-8"	42" - 48"
14	6'-0"	7'-8"	54" - 60"

* 12" - 21" FOR PRECAST MANHOLES
** 12" - 24" FOR PRECAST MANHOLES

THE FIRST STEP SHALL BE PLACED 16" ABOVE THE BENCH.

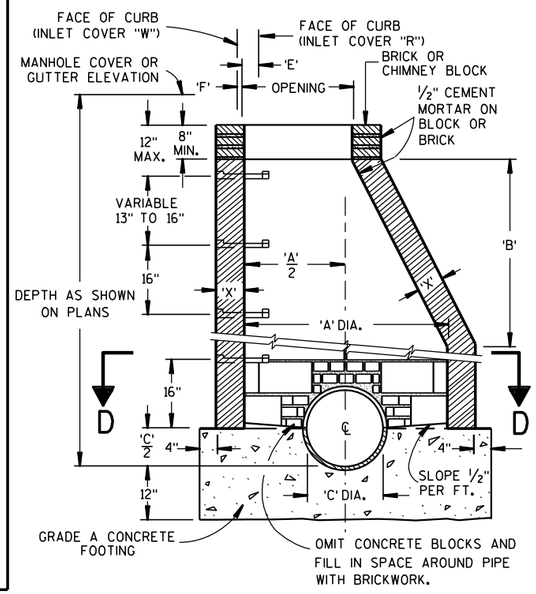
MANHOLE



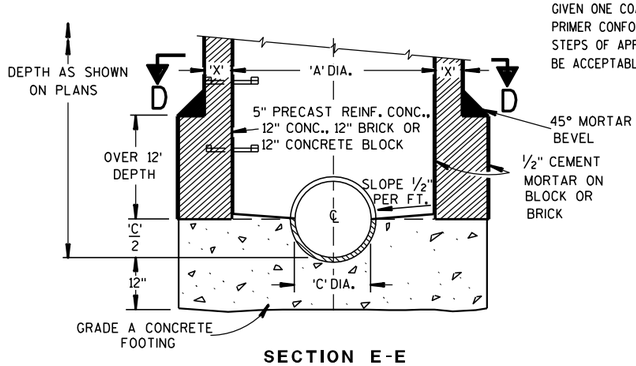
HALF SECTION D-D

TABLE OF OPENING DIMENSIONS

TYPE	COVER DESCRIPTION	OPENING	'E'	'F'
"O"	ROUND	2'-2" DIA.	—	—
"W"	CURB BOX	1'-8" X 2'-6"	—	1"
"X"	INLET	1'-10" X 2'-6"	—	—
"R"	CURB BOX	2'-0" X 2'-1"	4"	—



SECTION E-E



SECTION E-E

TYPES 11, 12, 13 & 14

GENERAL NOTES

STRUCTURE WALL THICKNESS 'X' TO BE 8" BRICK, 6" CONCRETE BLOCK, 6" GRADE A CONCRETE OR 5" PRECAST REINFORCED CONCRETE.

STRUCTURE FOOTINGS ARE TO BE GRADE A CONCRETE OF THE THICKNESS SHOWN IN THE DETAIL OR 5" PRECAST REINFORCED CONCRETE.

REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED SREEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.

PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

PRECAST CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6" IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACK-FILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON THE PLANS.

THE CONTRACTOR MAY FORM AND POUR MONOLITHIC CONCRETE INVERT PROVIDED THE PIPE ENDS ARE EXTENDED INTO THE M.H. AND NOT TERMINATED WITHIN THE M.H. WALLS.

MANHOLE STEPS

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH; 16 INCH C-C MAX. SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM WALL EMBEDMENT OF 3 INCHES IN PRECAST MANHOLE AND 6 INCHES IN 8 INCH BRICK OR 6 INCH BLOCK MANHOLE; TREAD OF STEP SHALL HAVE A NON-SKID SURFACE AND BE FLANKED BY CLEATS, WITH A MINIMUM OF 10 INCHES CLEAR BETWEEN CLEATS, TO PREVENT FOOT SLIPPING OFF THE EDGE CLEATS SHALL BE A MINIMUM OF 3/4 INCH HIGH BY 3/4 INCH WIDE HAVING A MINIMUM THICKNESS OF 5/8 INCH. STEPS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

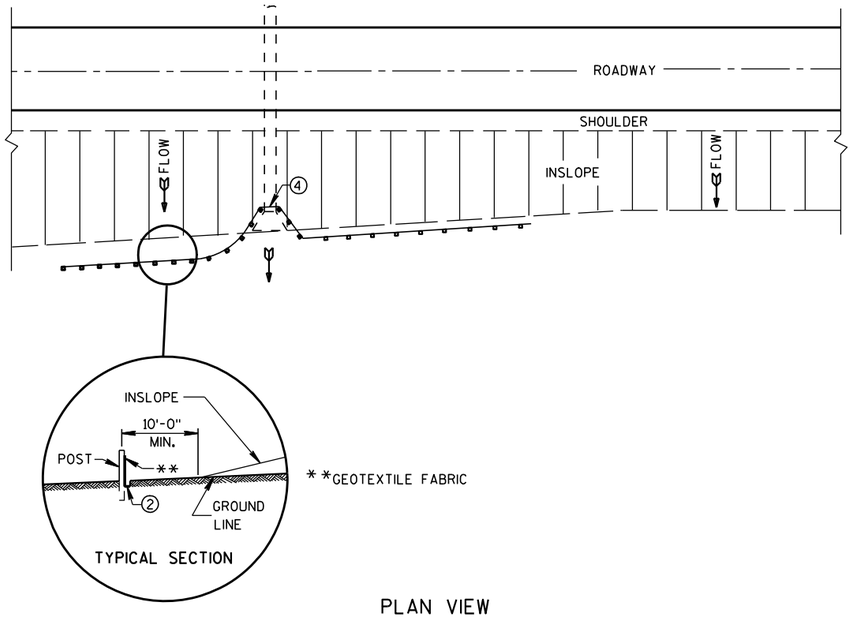
SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCING BAR WILL BE ACCEPTABLE.

MANHOLES, MANHOLE & INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

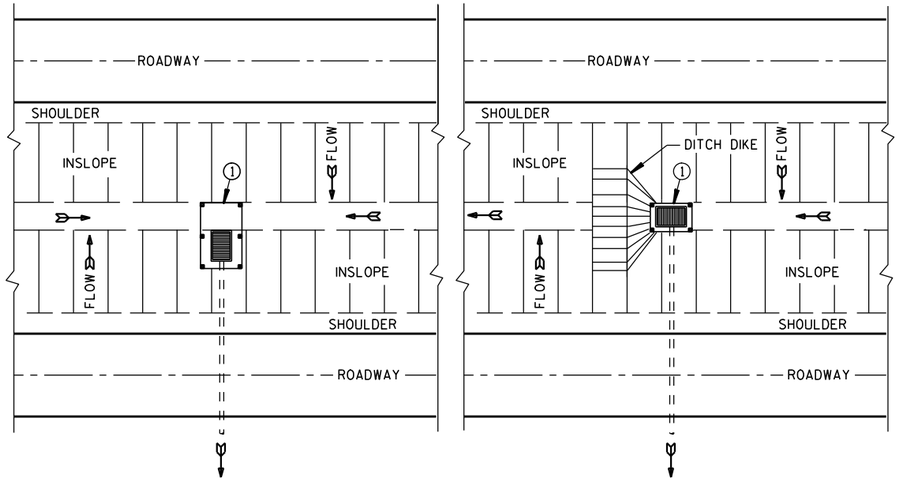
APPROVED
4/12/2011 — DATE
/S/ Jerry H. Zogg — ROADSIDE STANDARDS ENGINEER
FHWA

6
S.D.D. 8 D 17-6



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



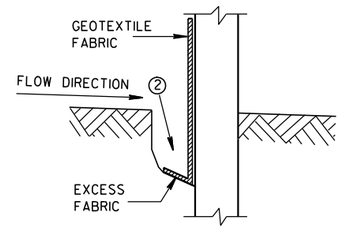
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

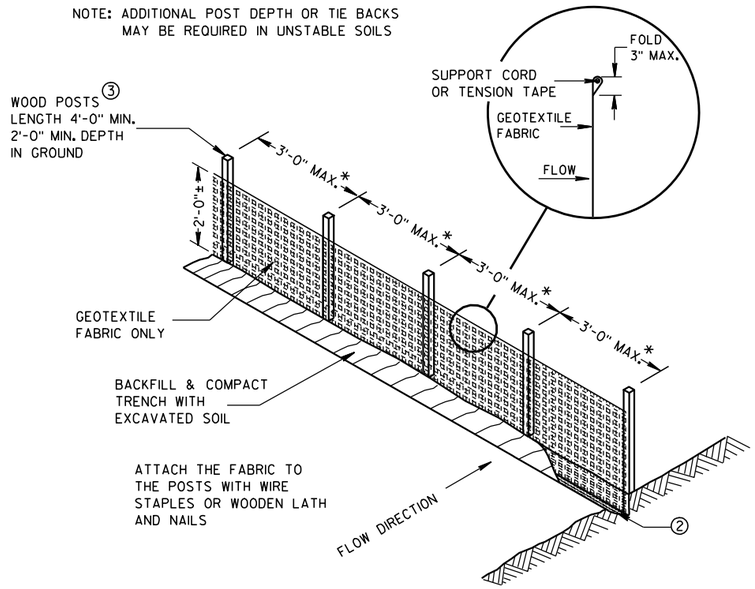
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

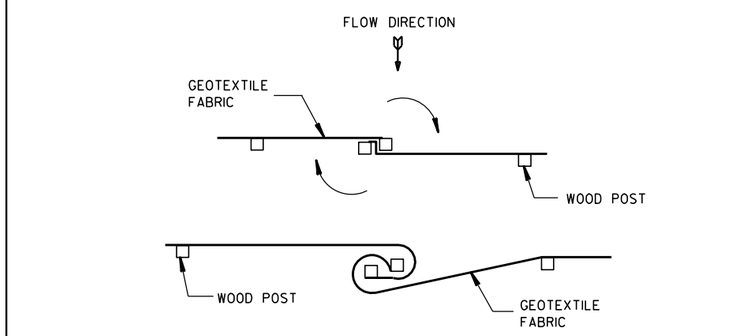
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



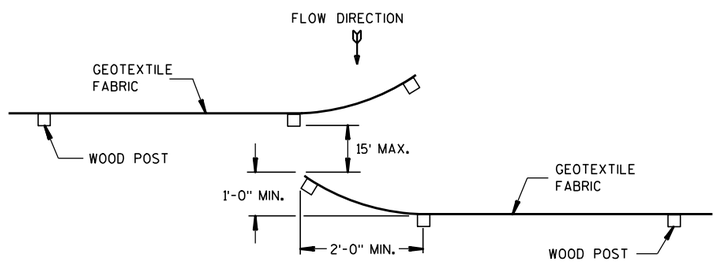
TRENCH DETAIL



SILT FENCE

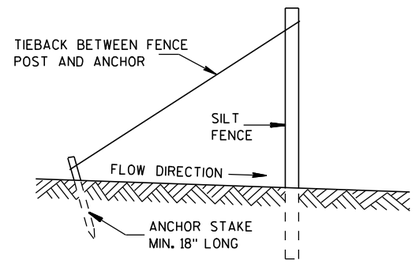


TWIST METHOD



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

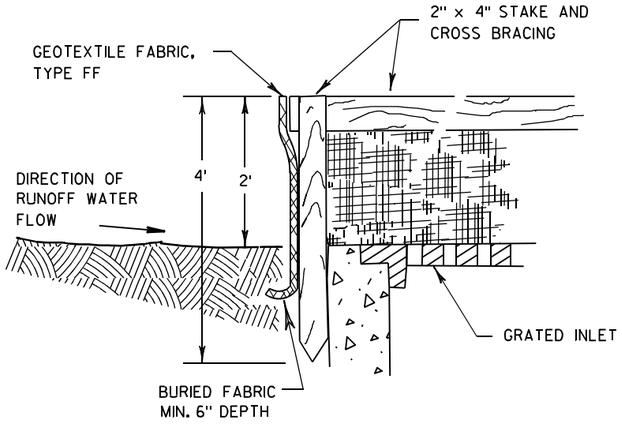
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

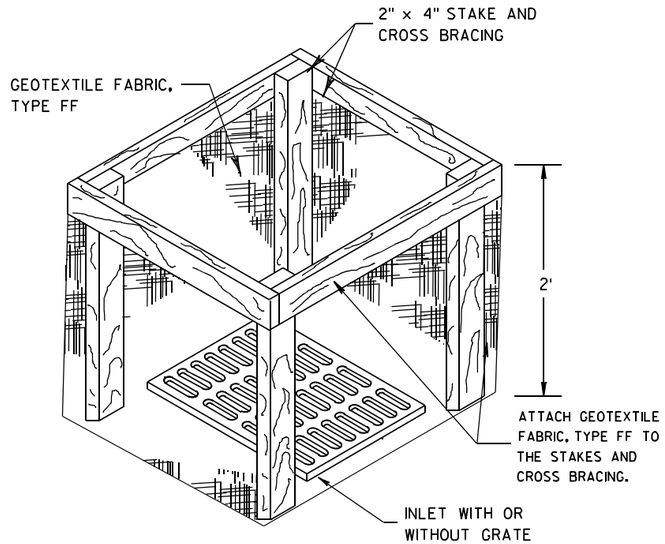
6

S.D.D. 8 E 9-6

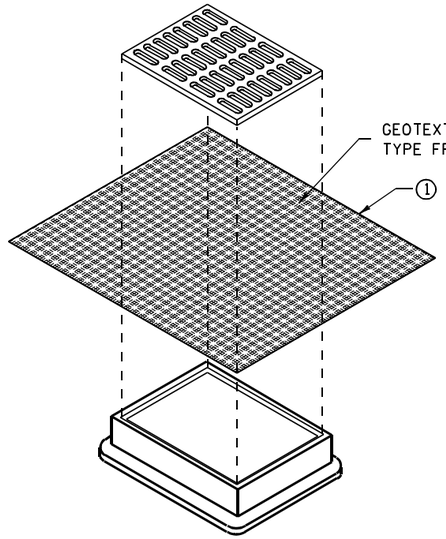
6

S.D.D. 8 E 9-6



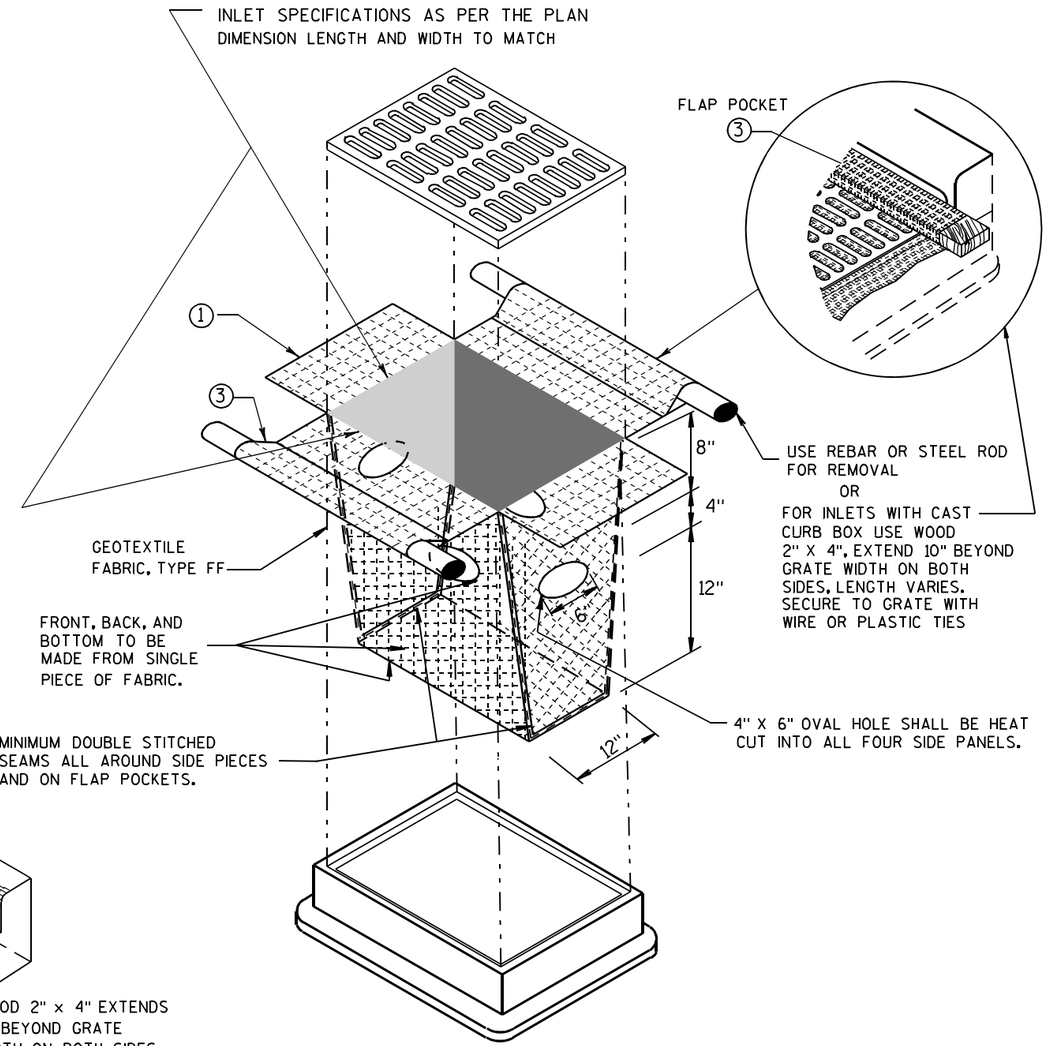


INLET PROTECTION, TYPE A



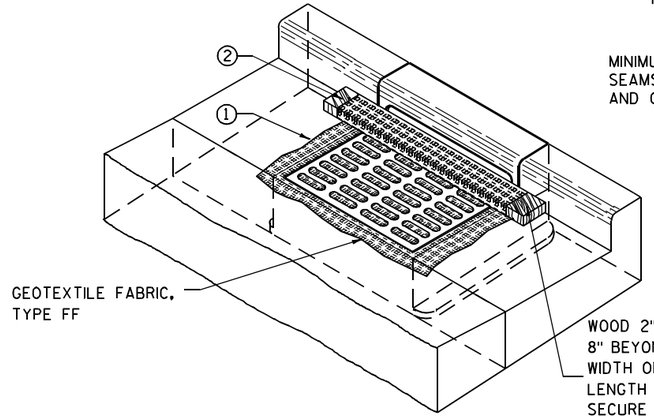
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

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

METAL APRON ENDWALLS

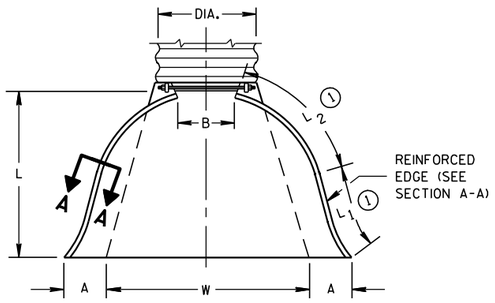
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

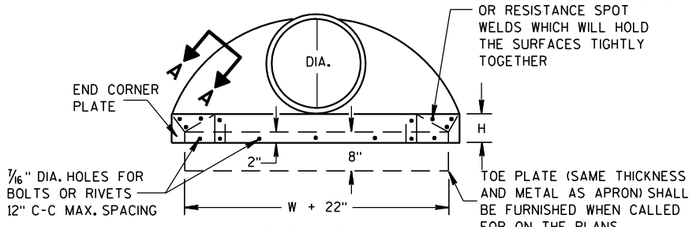
REINFORCED CONCRETE APRON ENDWALLS

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

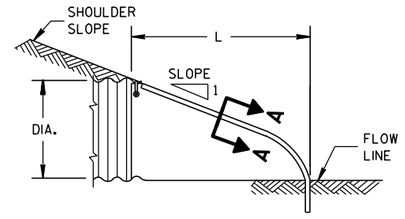
*MINIMUM
**MAXIMUM



PLAN VIEW

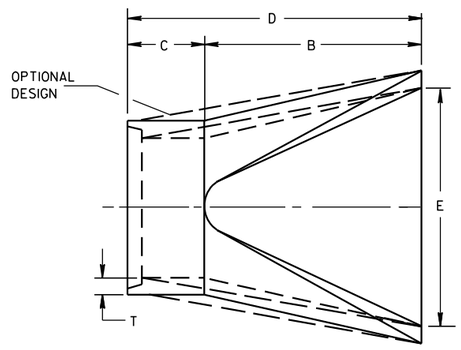


END VIEW

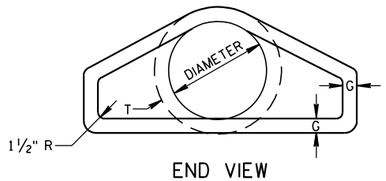


SIDE ELEVATION

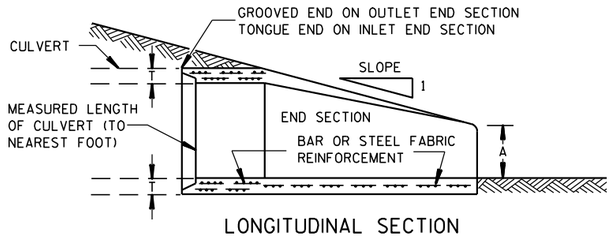
METAL ENDWALLS



PLAN

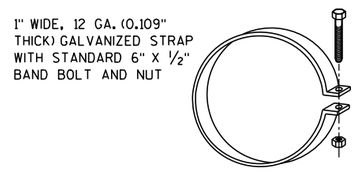


END VIEW



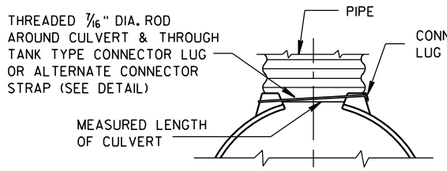
LONGITUDINAL SECTION

CONCRETE ENDWALLS

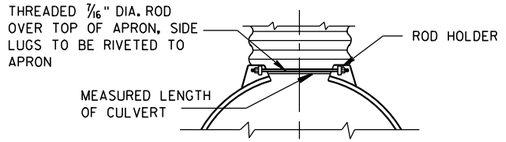


ALTERNATE FOR TYPE 1 CONNECTION

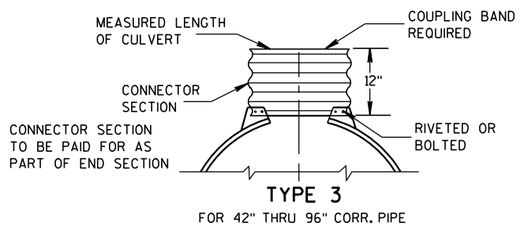
END SECTION CONNECTOR STRAP



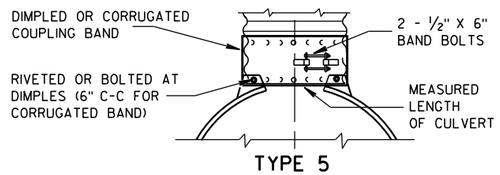
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

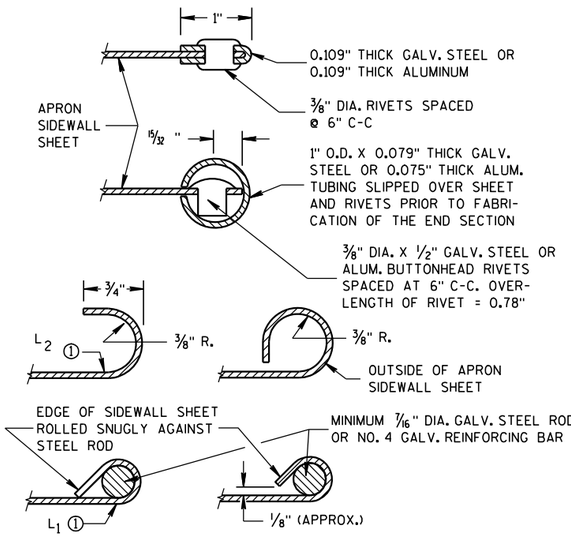
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

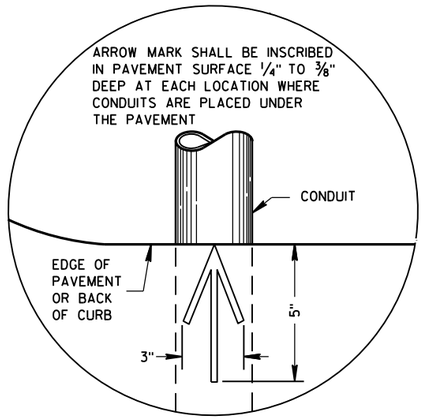
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

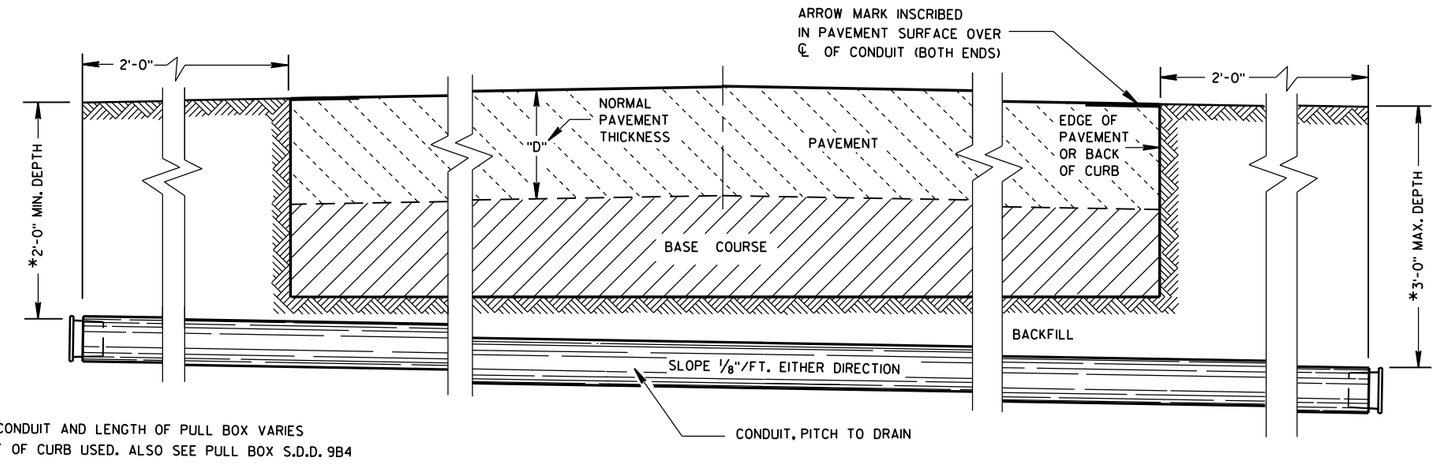
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



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.

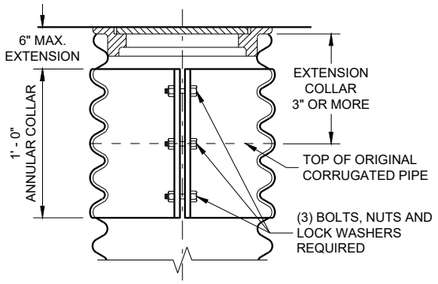
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

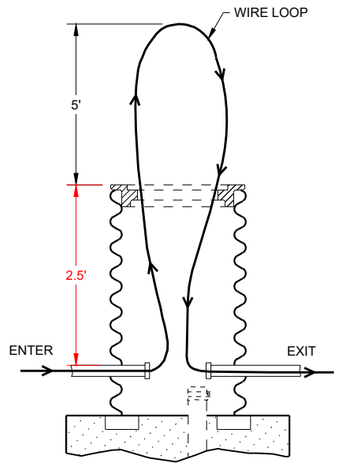
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

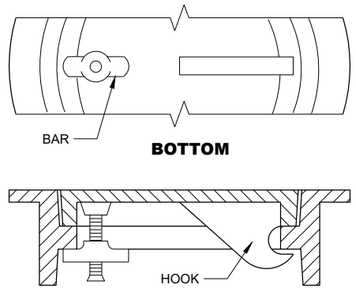
S.D.D. 9 B 2-10



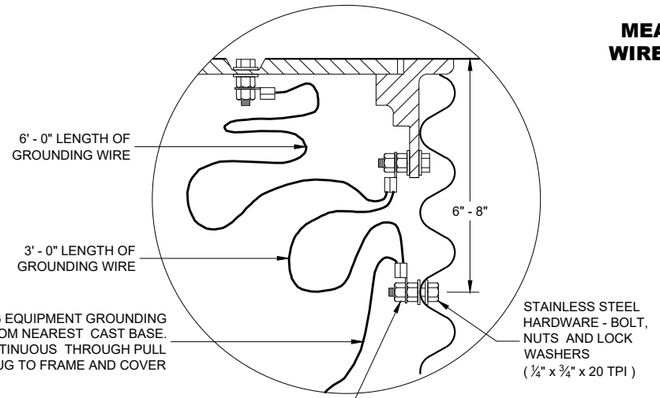
CORRUGATED PIPE EXTENDER



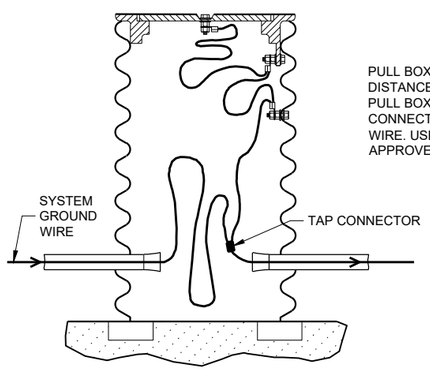
MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)
TIGHTENING BAR TYPE

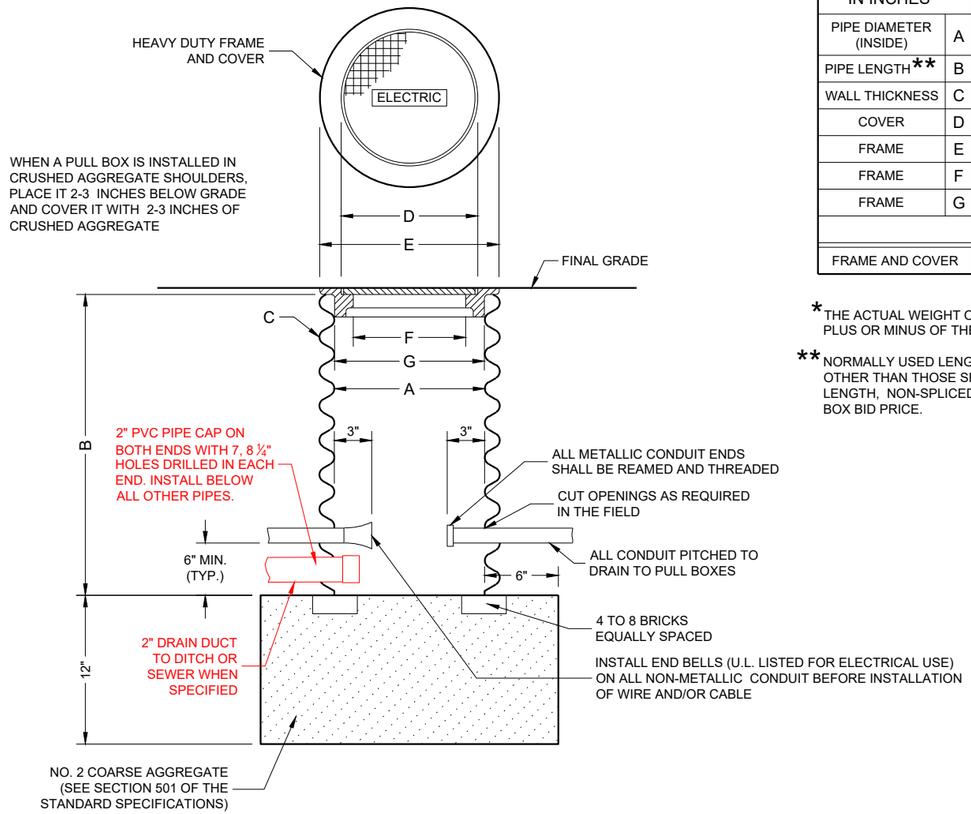


EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



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

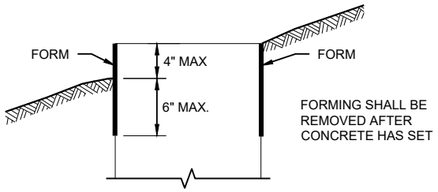
APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 235

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.

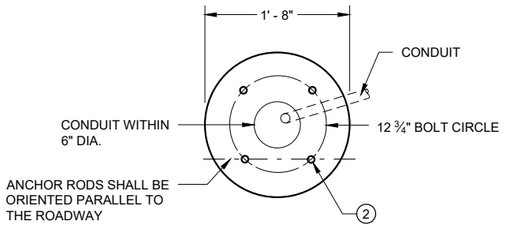
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

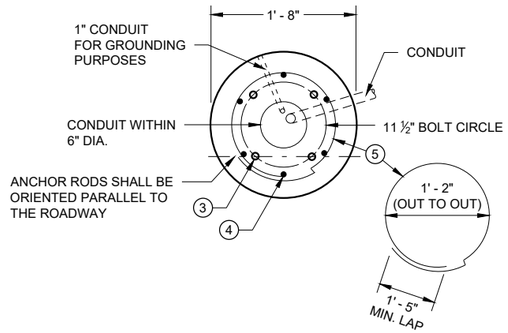
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

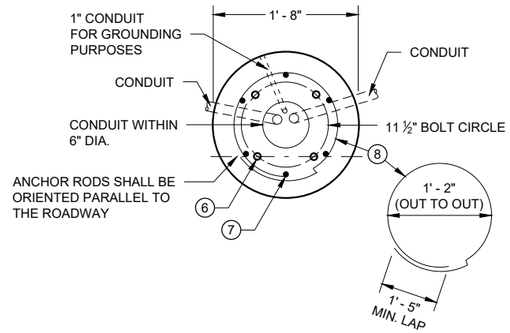
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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

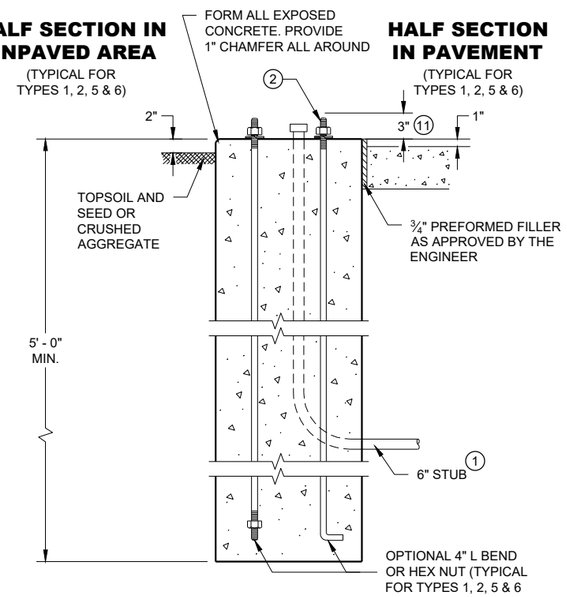
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

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.

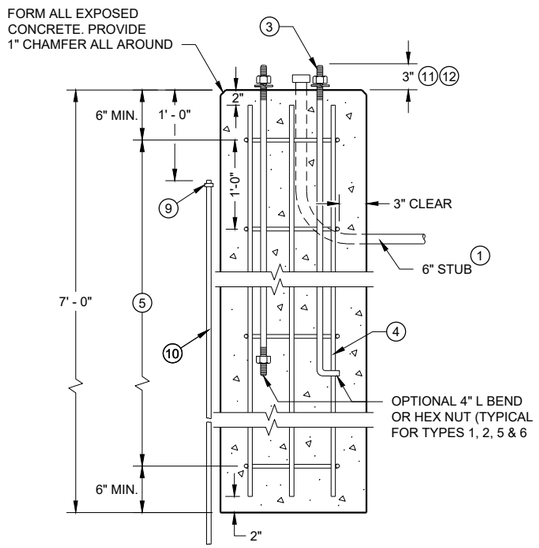
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

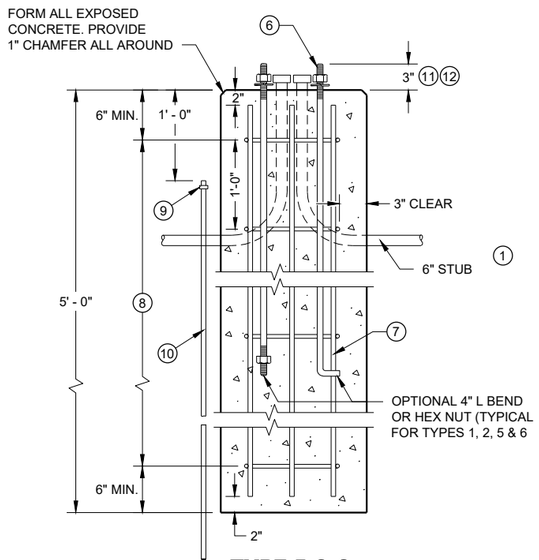
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



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

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.

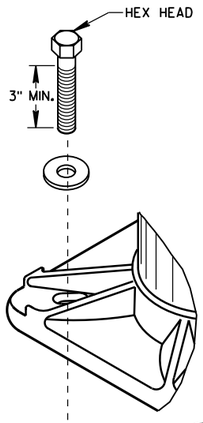
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

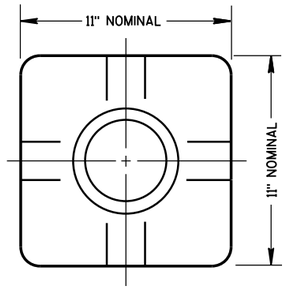
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

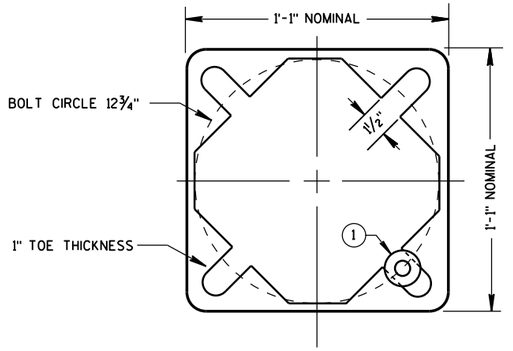
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

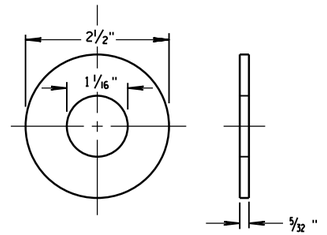




TOP VIEW
(PEDESTAL BASE)

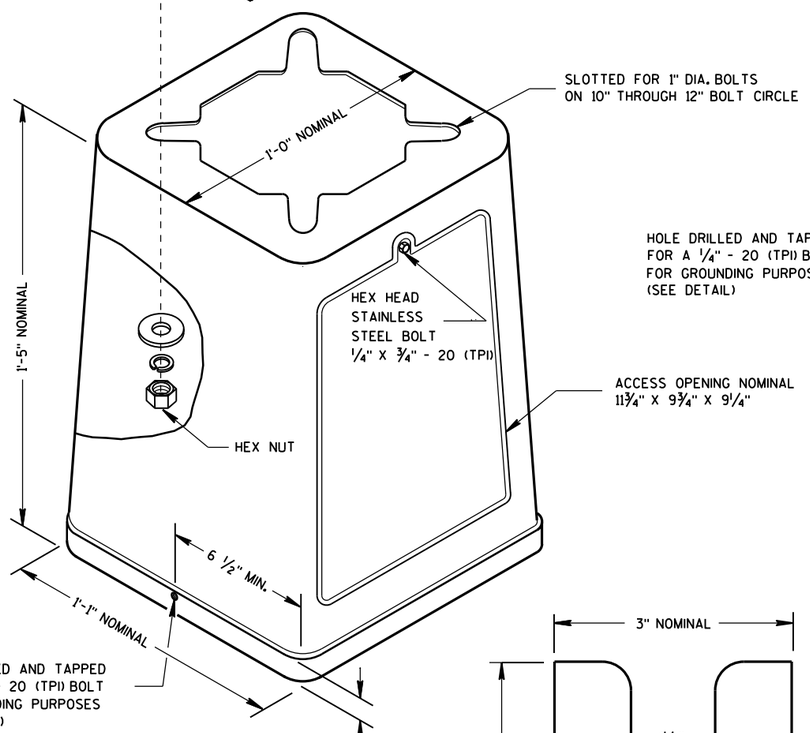


BOTTOM VIEW
(PEDESTAL BASE)

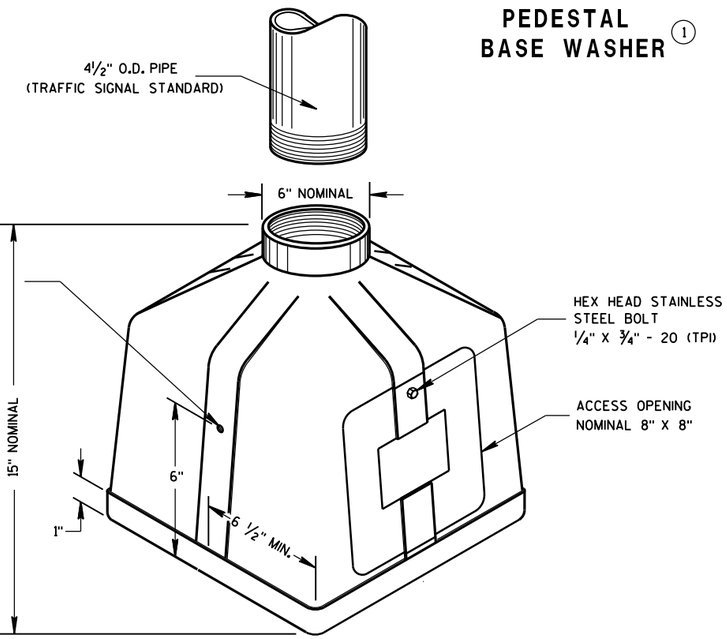


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

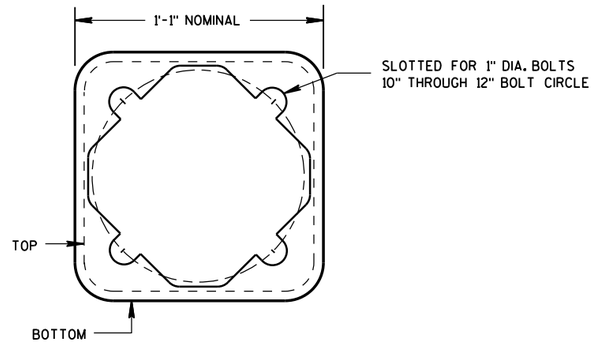
PEDESTAL BASE WASHER (1)



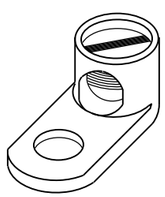
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

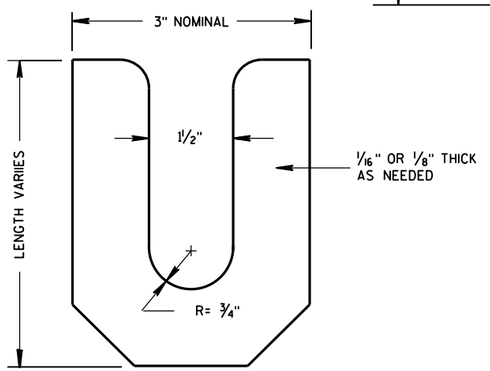


TYPICAL MECHANICAL CONNECTOR LUG

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

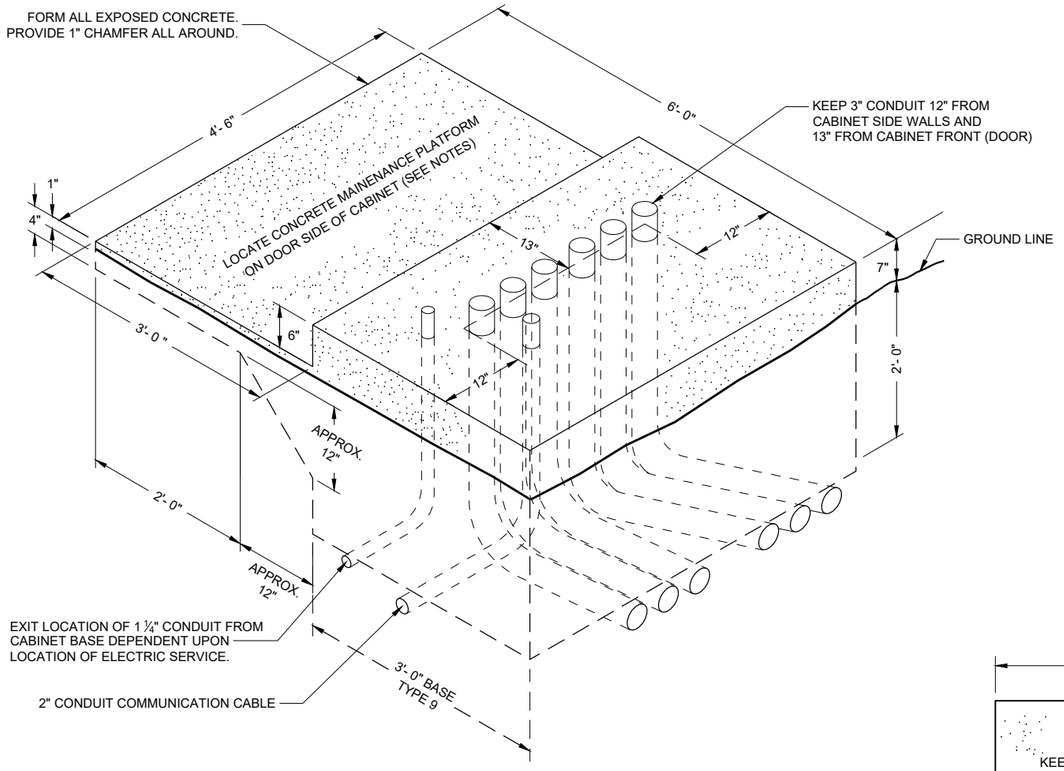
6

S.D.D. 9 C 3-4

6

S.D.D. 9 C 3-4

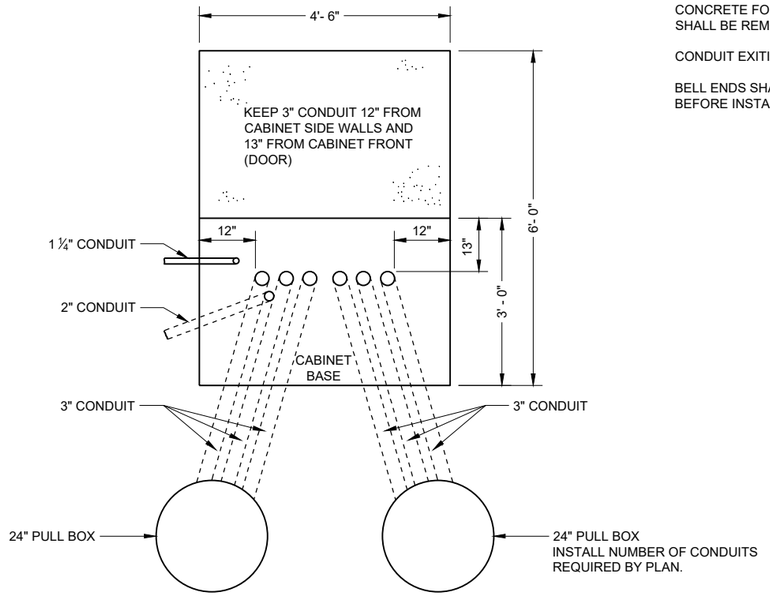
SDD 09C06 Concrete Control Cabinet Base, Type 9, Special



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 238

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.

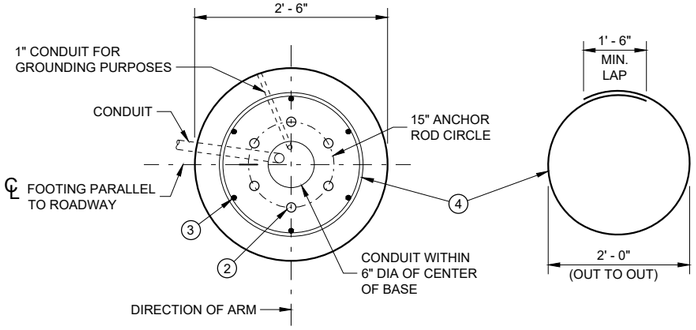
(2) (6) 1 ½ DIA. X 4' - 4" ANCHOR RODS

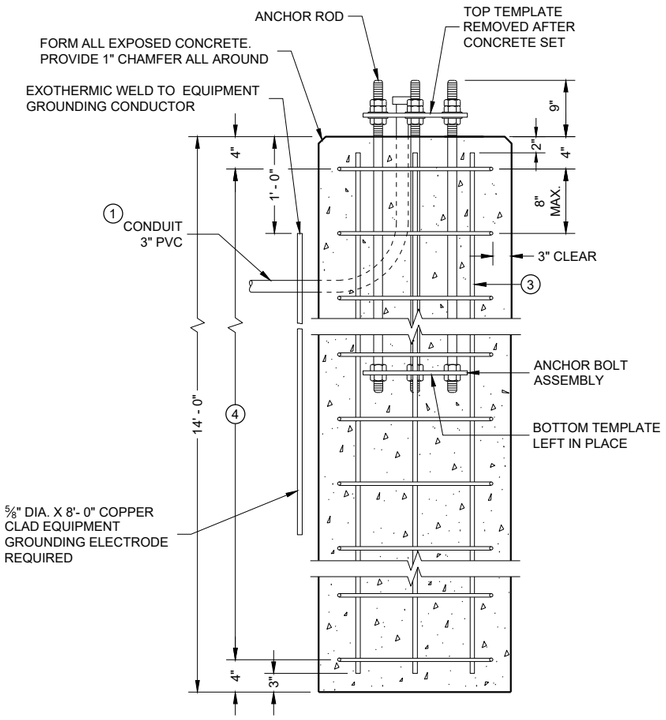
(3) (6) NO. 6 X 13' - 7" BAR STEEL REINFORCEMENT.

(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.

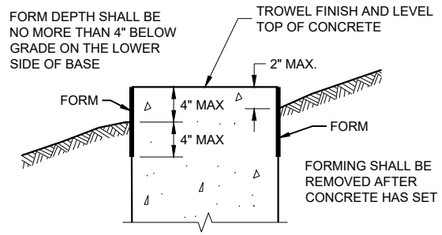
QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122



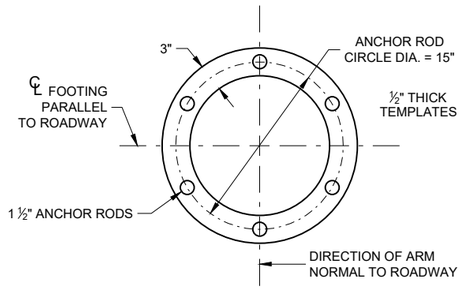


CONCRETE BASE, TYPE 10
(FOR TYPE 9, TYPE 10 AND OVER HEIGHT (OH) POLES)

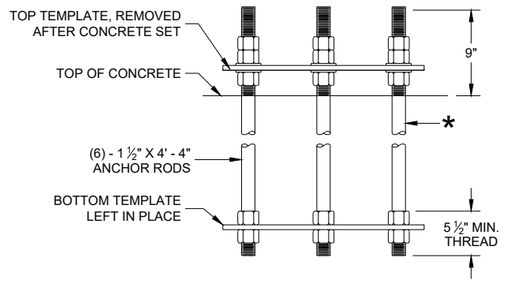
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE SDD 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



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.

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 FOOTING 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.

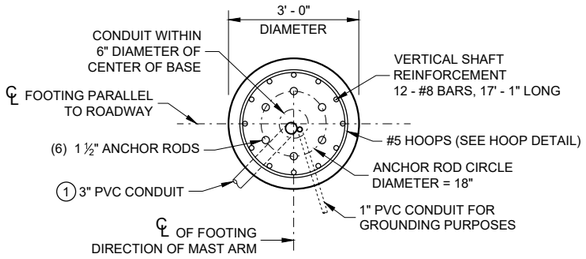
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

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.

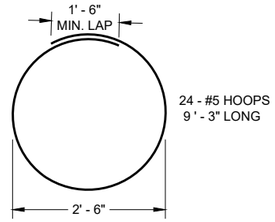
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(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.

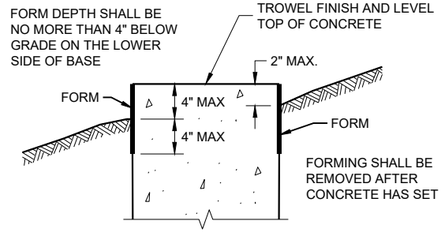
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



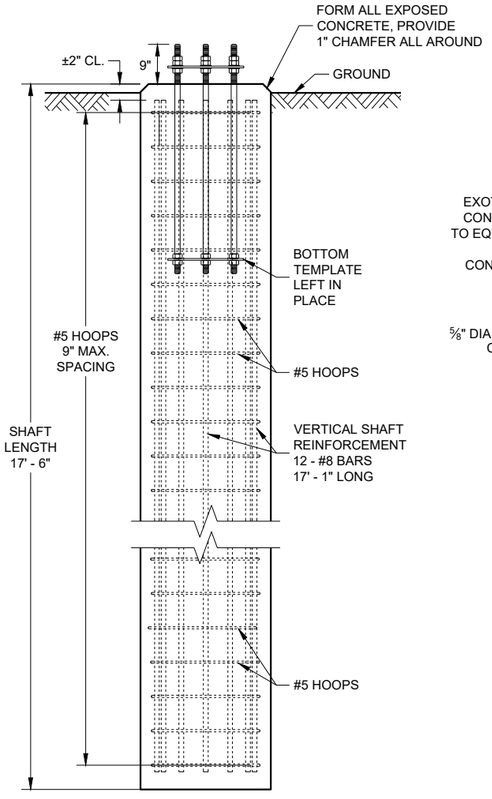
PLAN VIEW



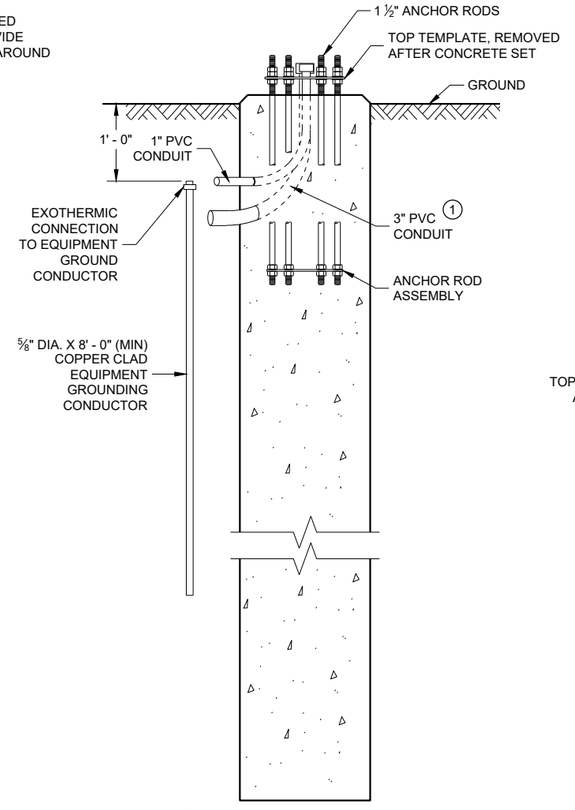
HOOP DETAIL



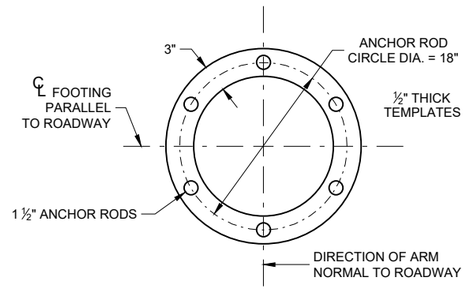
FORMING DETAIL



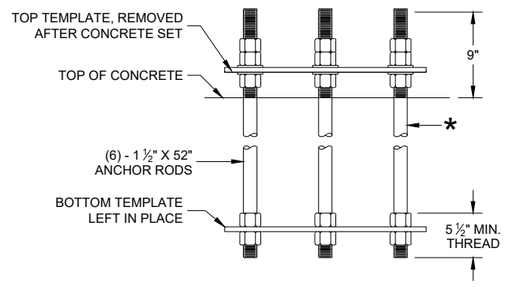
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



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

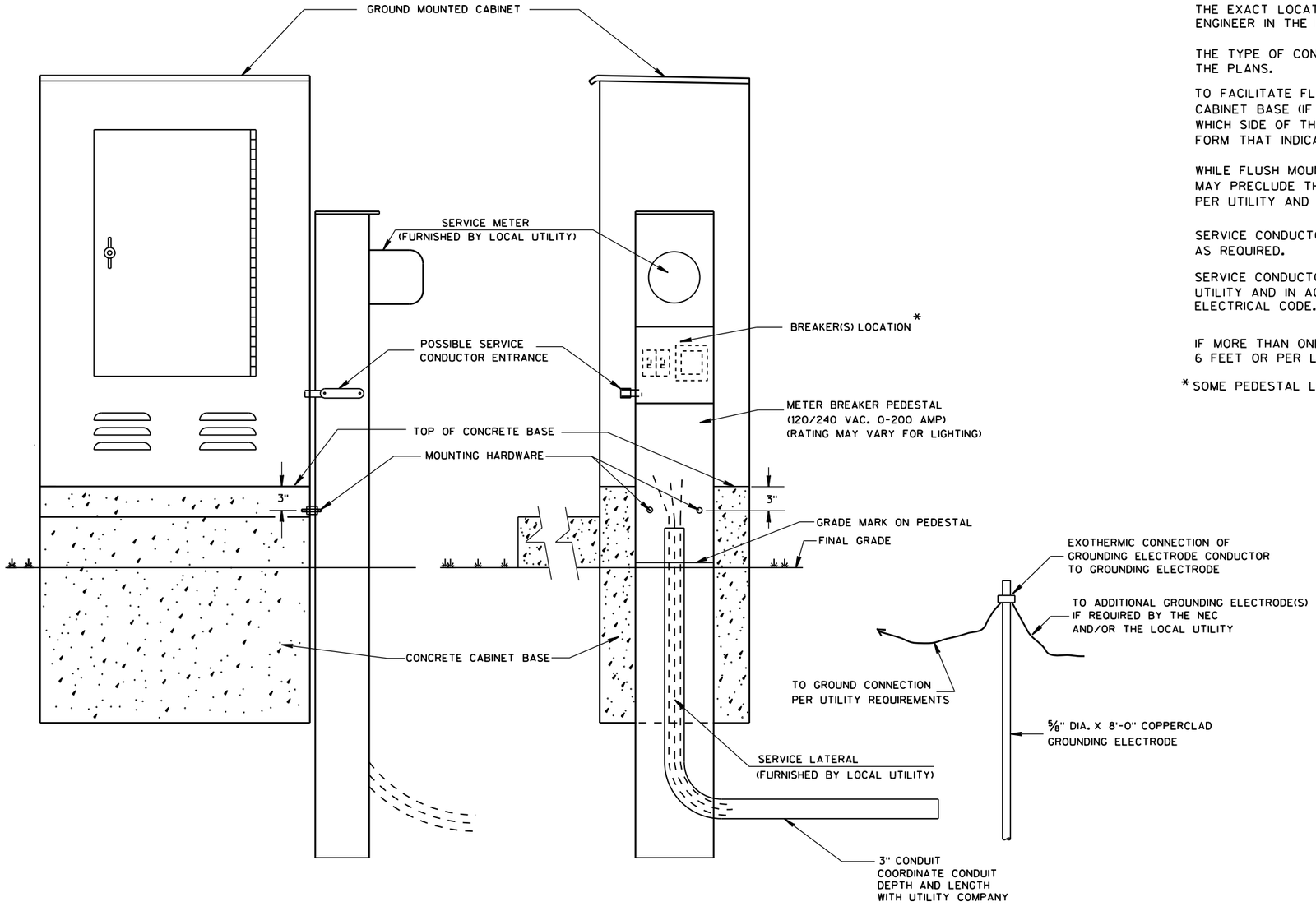
APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

6

SDD 09C15 - 01

6

SDD 09C15 - 01



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

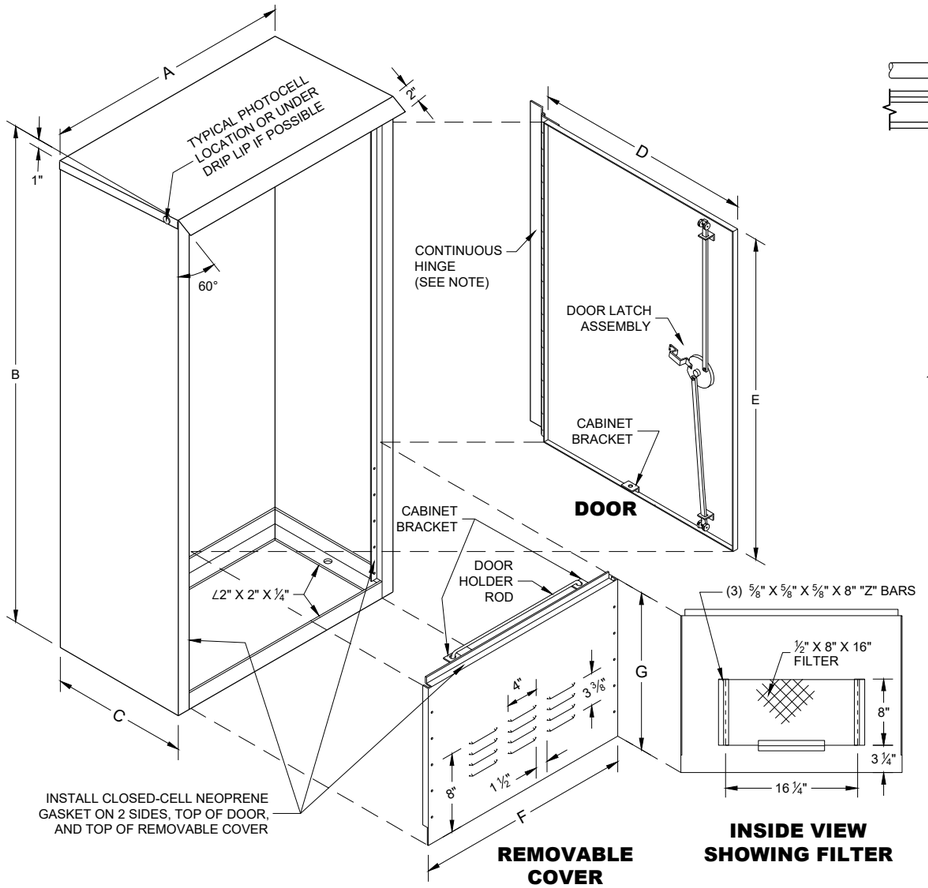
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

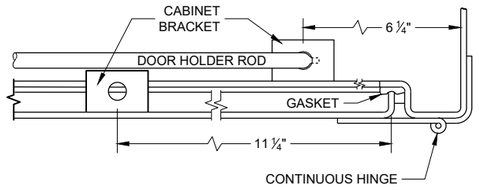
FHWA



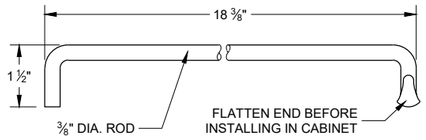
DOOR

REMOVABLE COVER

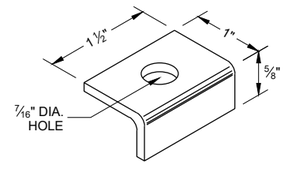
INSIDE VIEW SHOWING FILTER



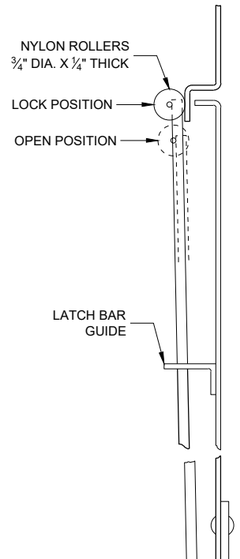
HINGE AND DOOR HOLDER

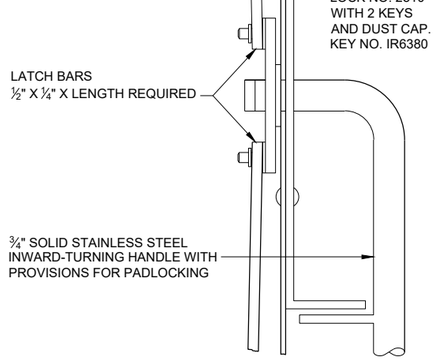


HOLDER ROD

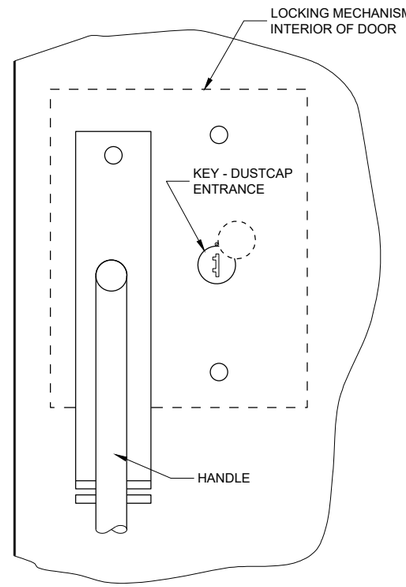


CABINET BRACKET





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.

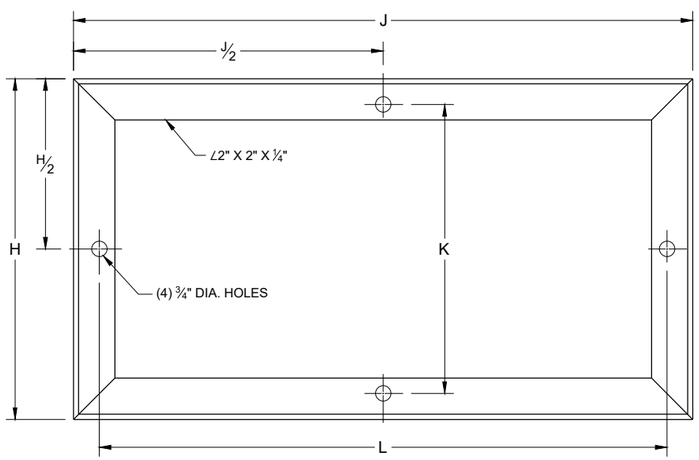
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

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.

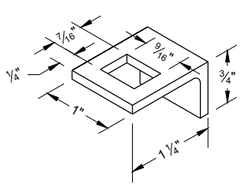
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



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

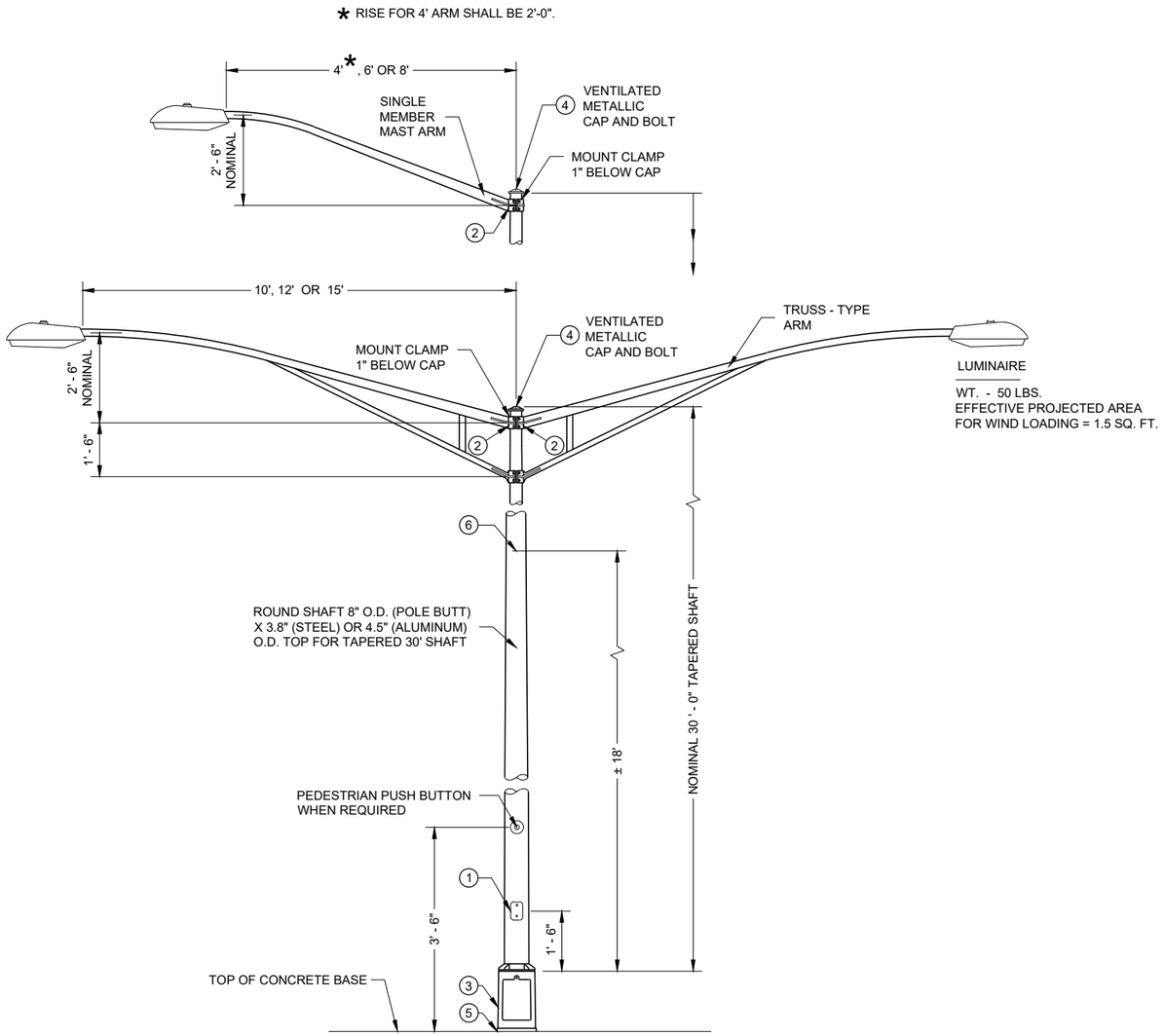
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 242

FHWA

SDD 09D02 - 03

SDD 09D02 - 03

6



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.

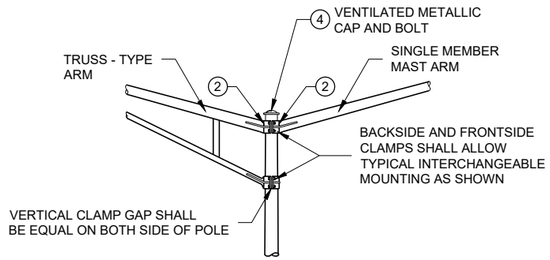
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(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.

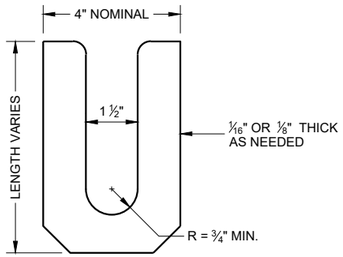
(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.

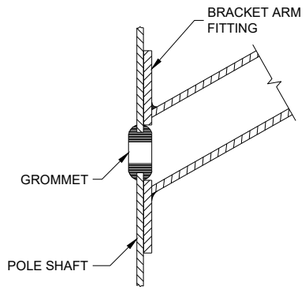


INTERCHANGEABLE MOUNTING DETAIL

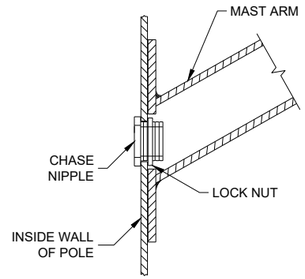
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

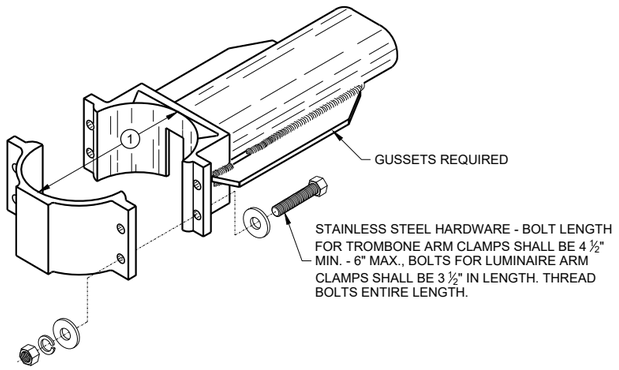
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

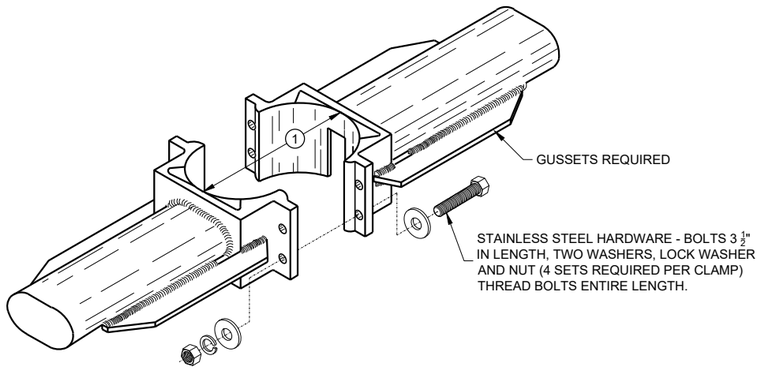
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

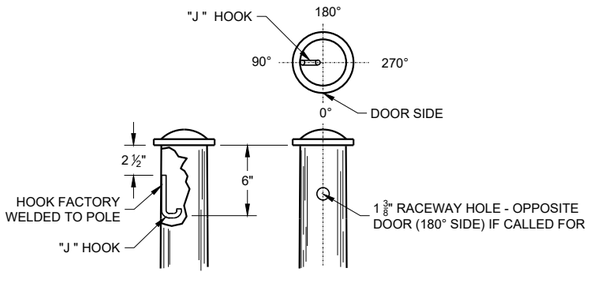
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



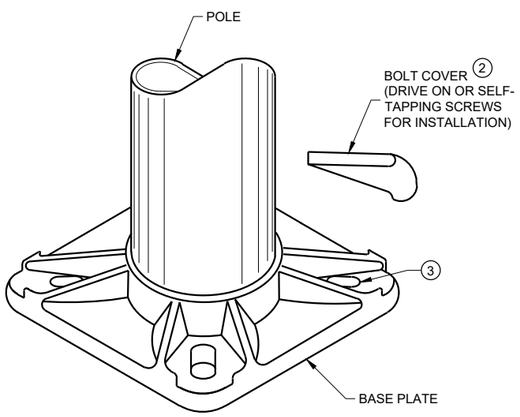
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



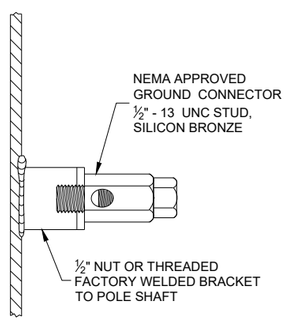
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

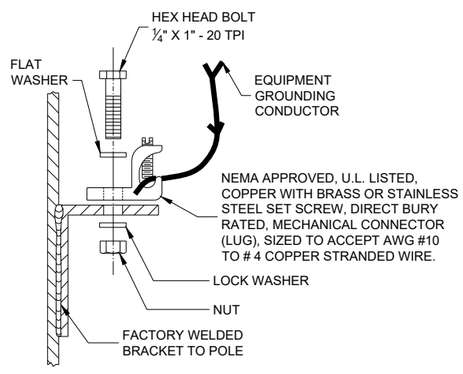


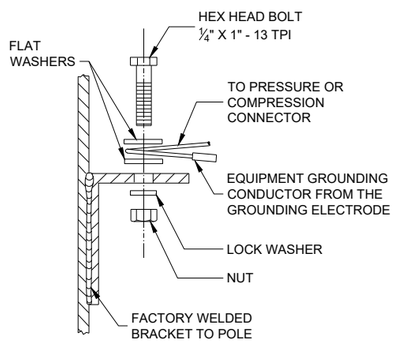
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 244

FHWA

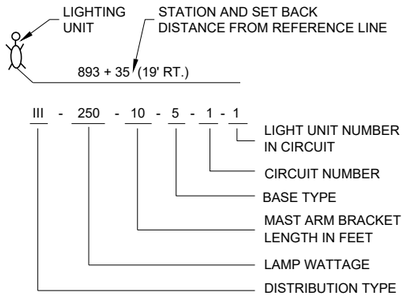
6
SDD 09E01 - 15g

GENERAL NOTES

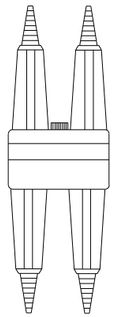
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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.

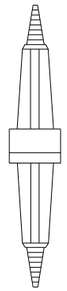
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



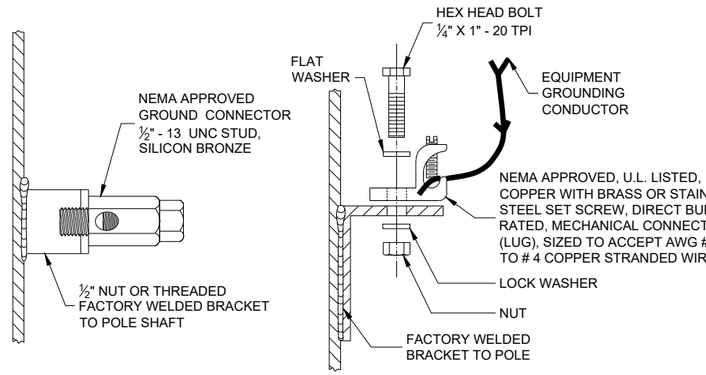
LIGHTING UNIT CODE
(TYPICAL)



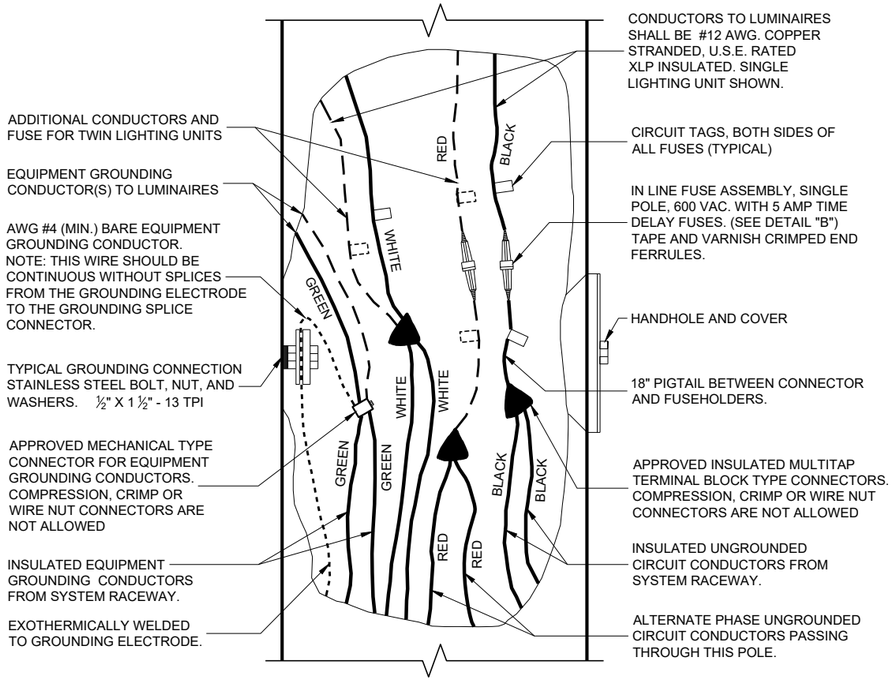
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



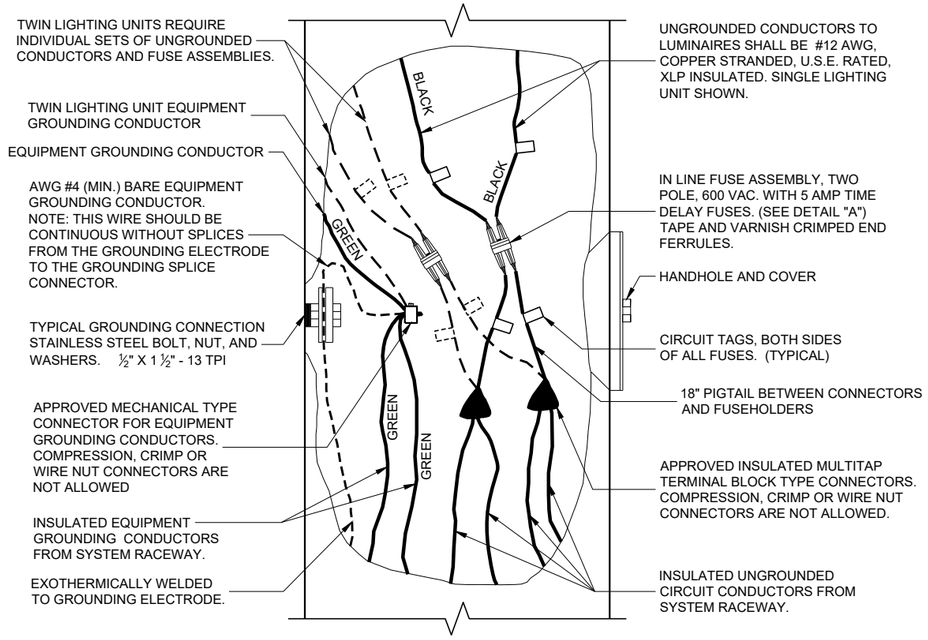
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



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

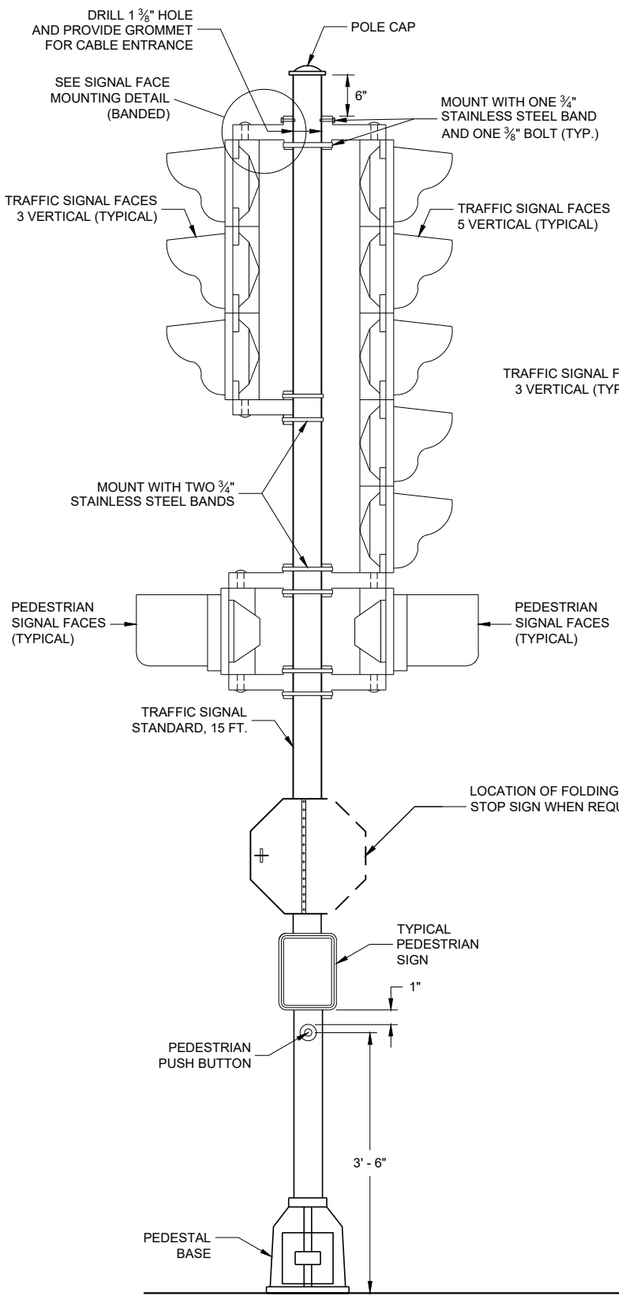
NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

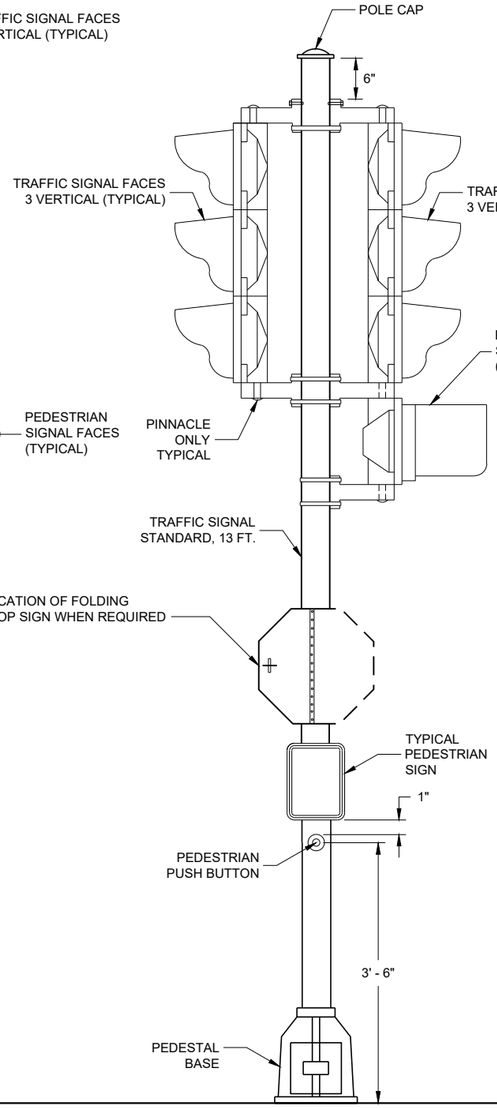
APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

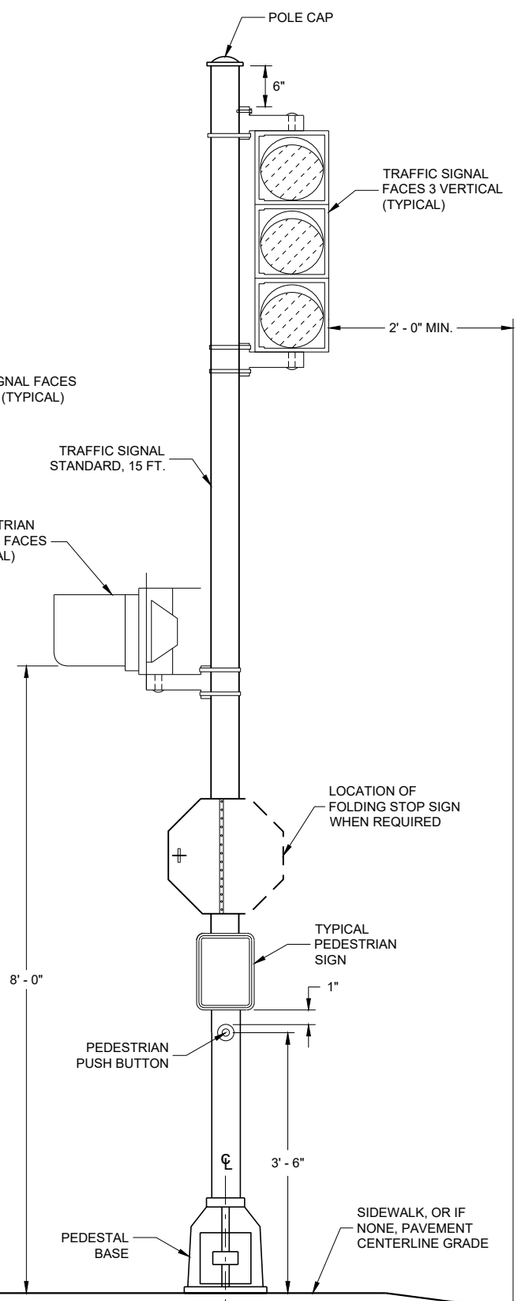
6
SDD 09E03 - 06



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.

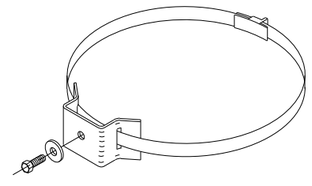
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

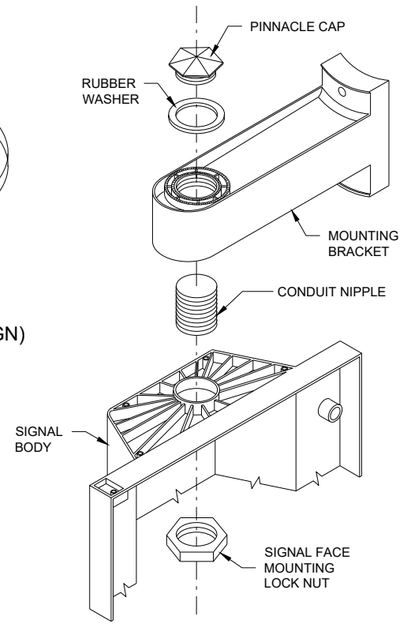
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

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.

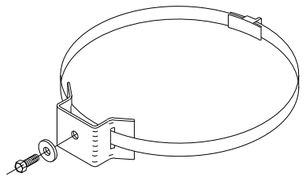
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE

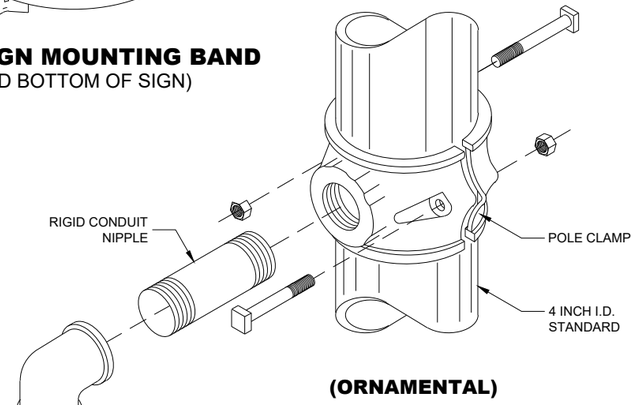
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 246

FHWA

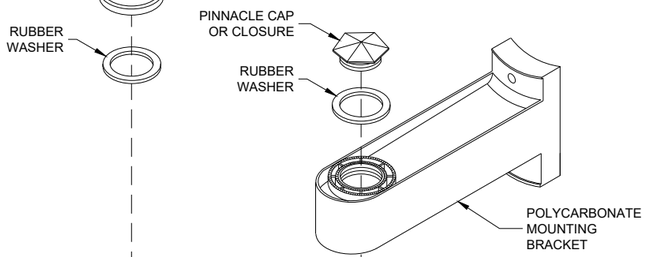
6
SDD 09E06 - 05



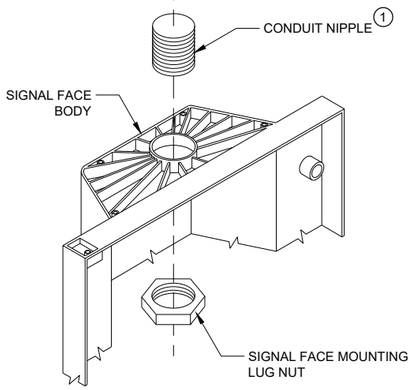
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



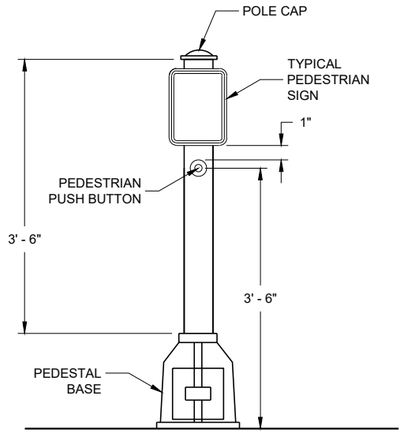
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

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.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

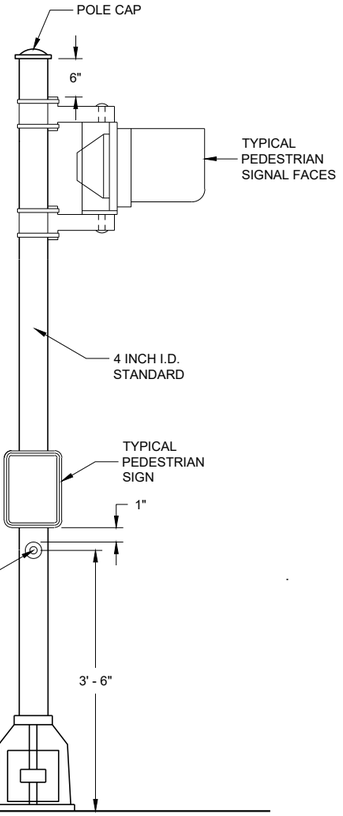
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

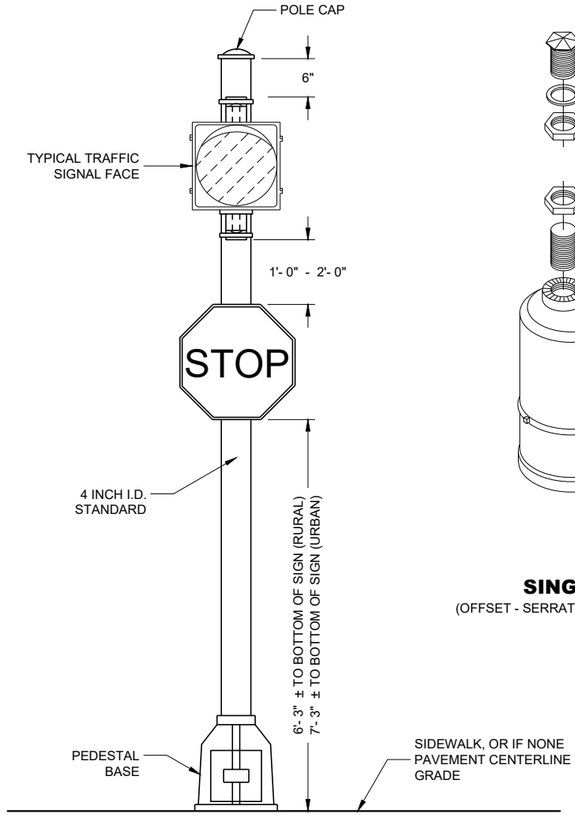
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

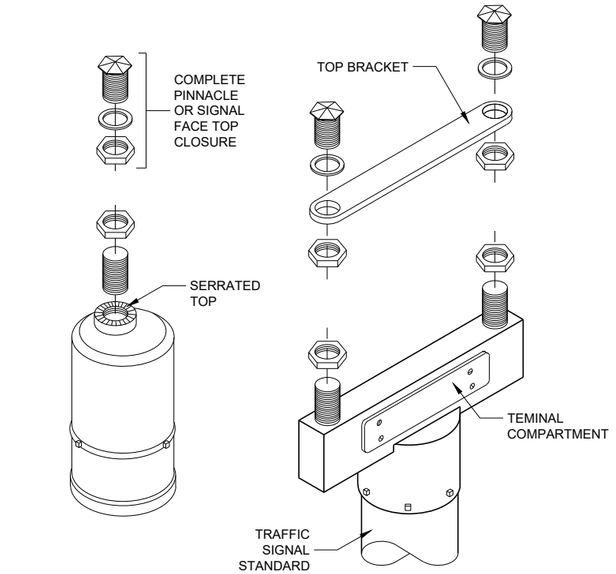
(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

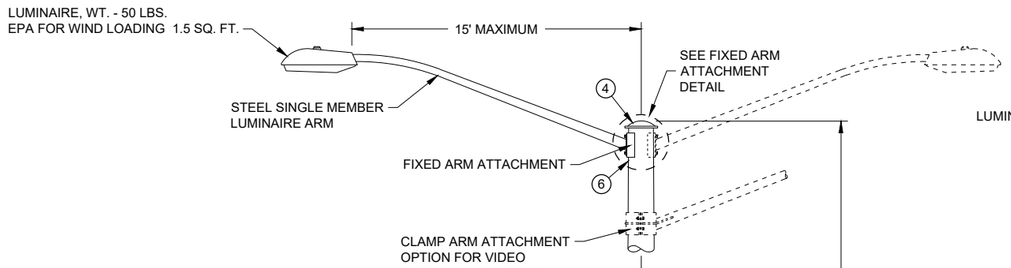
APPROVED
November 2018
DATE

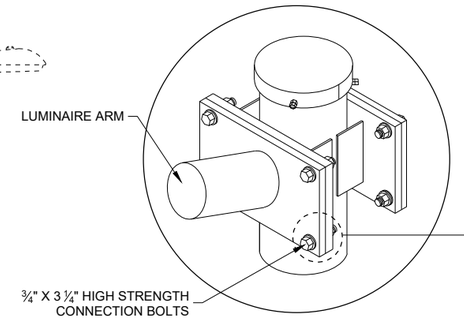
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 247

FHWA

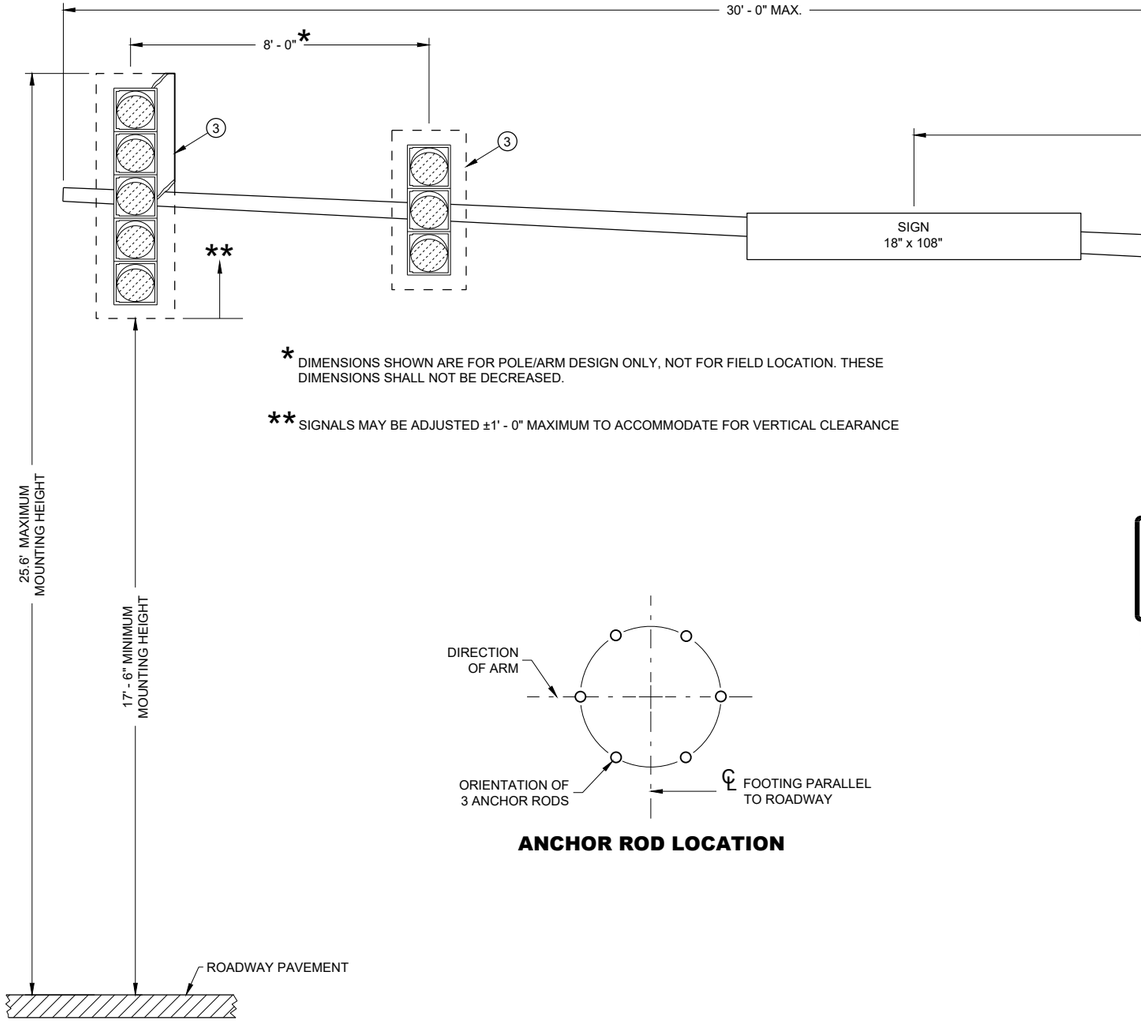
6

SDD 09E07 - 06





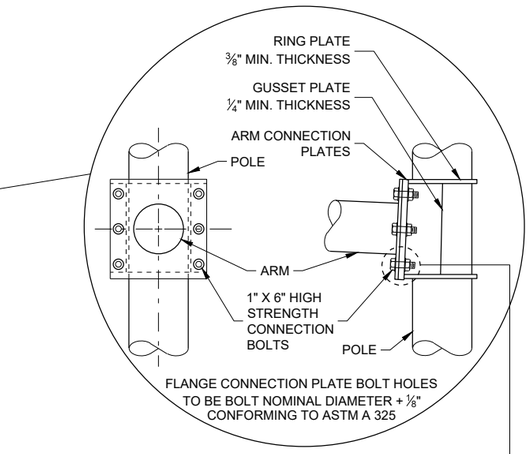
FIXED ARM ATTACHMENT DETAIL



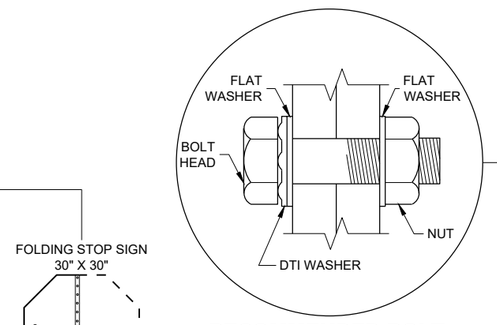
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

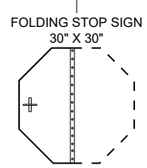
ANCHOR ROD LOCATION



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL



TYPE 10 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 POLE
15' - 30 MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

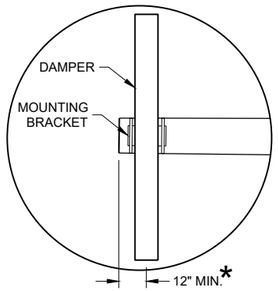
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

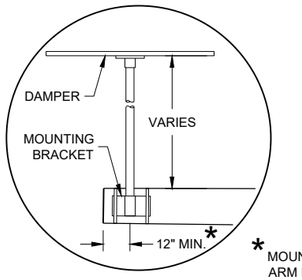
6

SDD 09E08 - 09e

SDD 09E08 - 09e

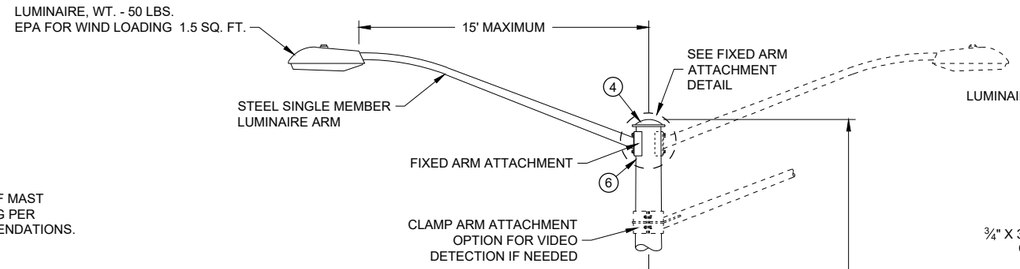


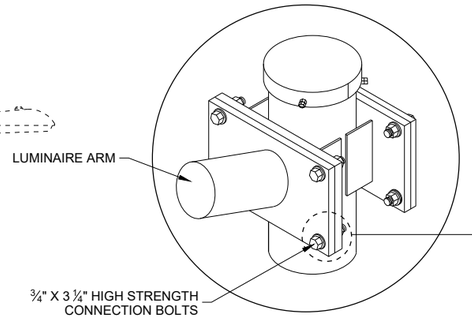
DUMBBELL VIBRATION DAMPER



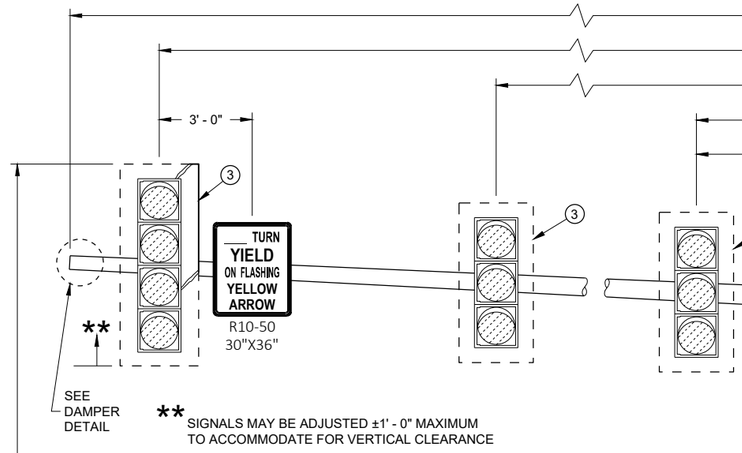
FLAT VIBRATION DAMPER

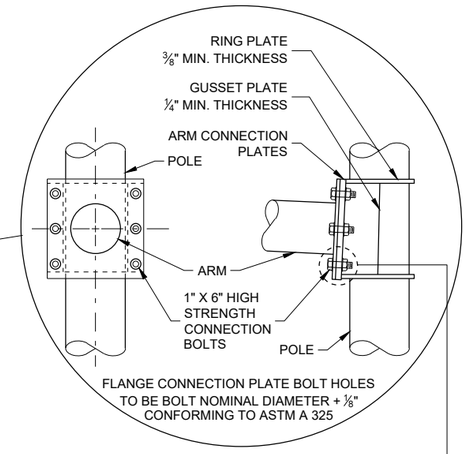
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



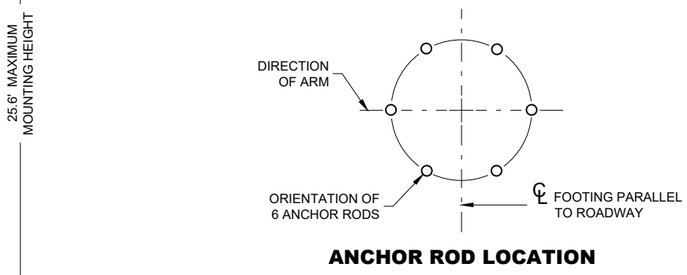


FIXED ARM ATTACHMENT DETAIL

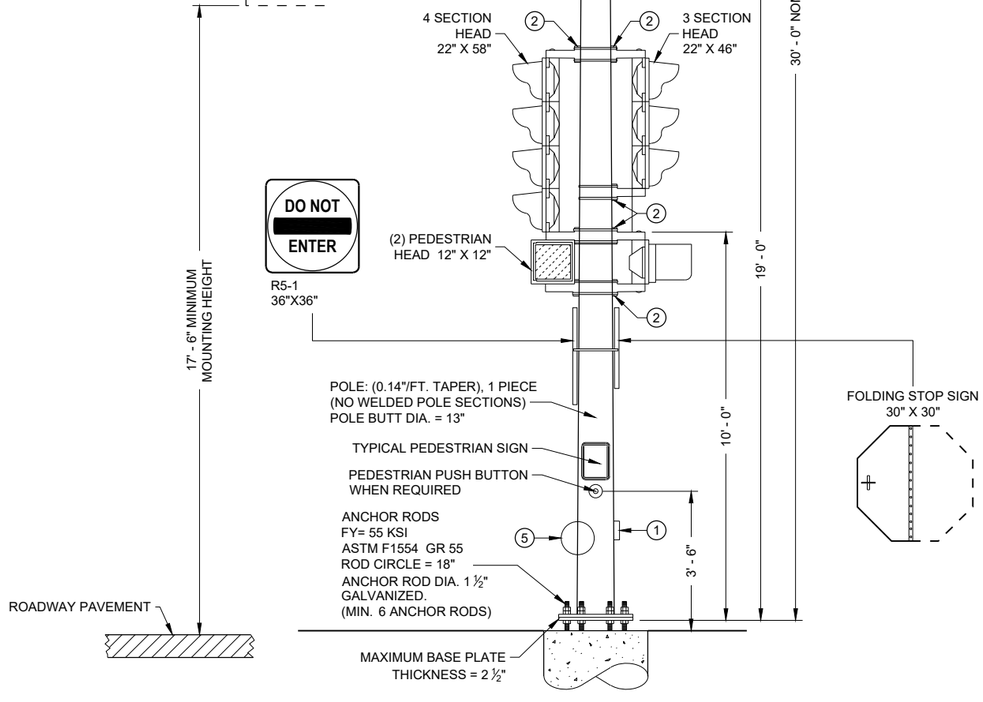


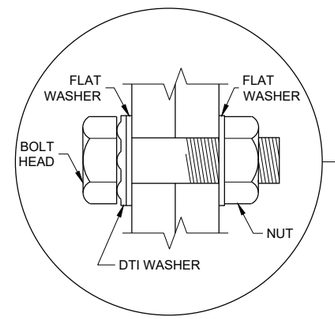


6 BOLT ARM CONNECTION DETAIL



ANCHOR ROD LOCATION





RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
45' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 SPECIAL POLE
45' MONTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

SDD 09E08 - 08h

SDD 09E08 - 08h

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

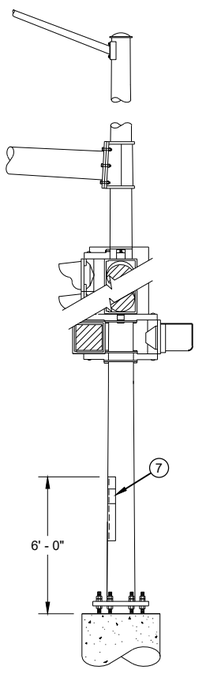
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

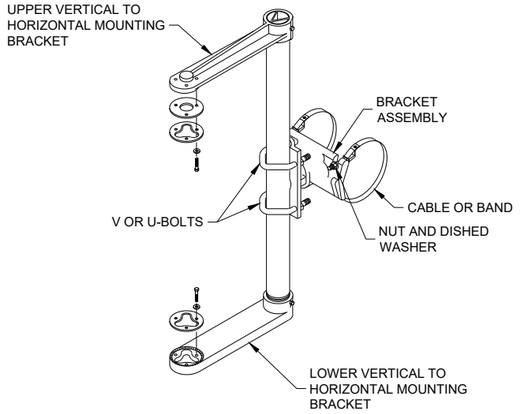
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

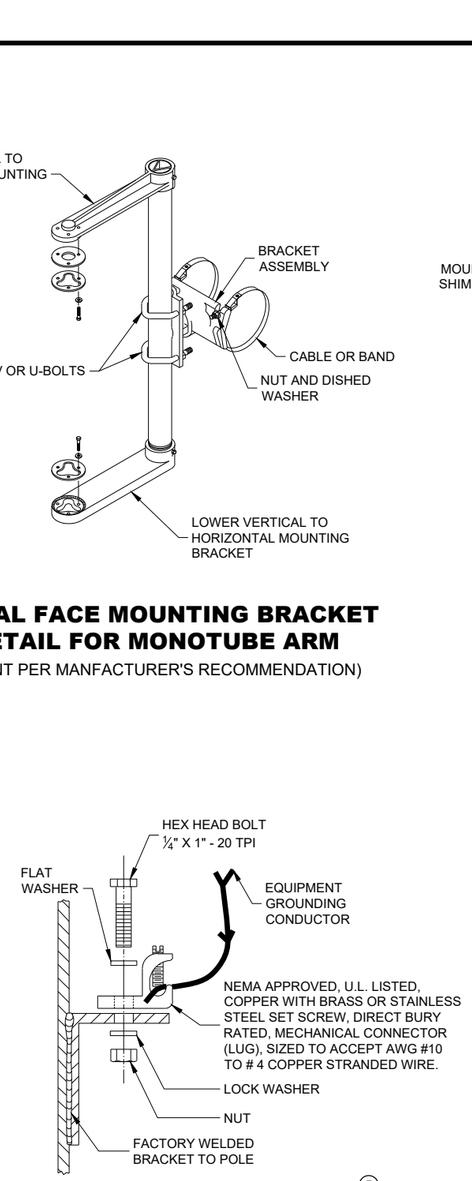


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



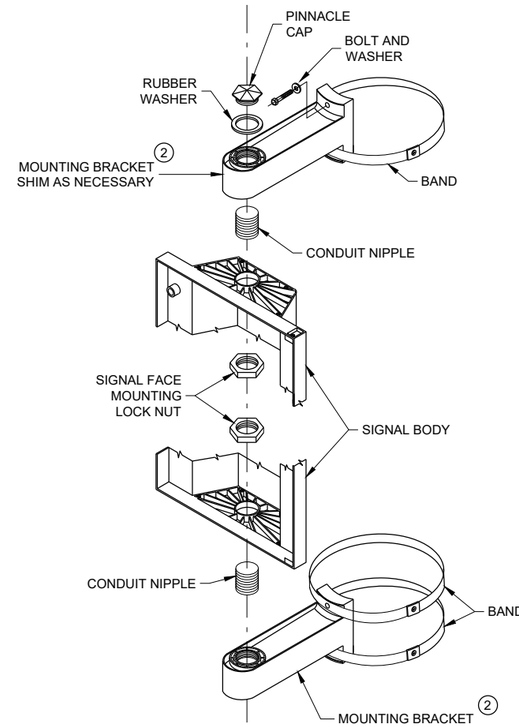
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

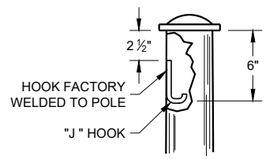


TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

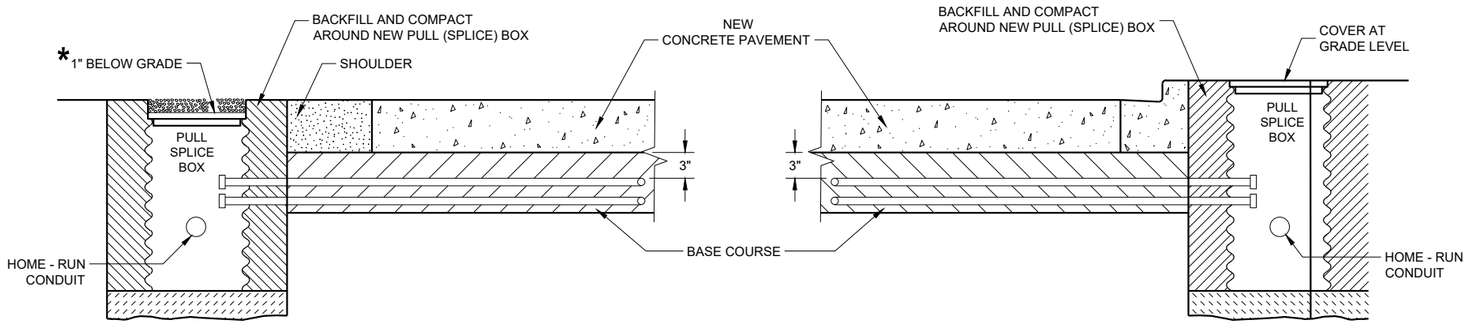
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

6

SDD 09E08 - 09k



SECTION A - A
NO CURB AND GUTTER

SECTION B - B
CURB AND GUTTER

* RECESS PULL (SPLICE) 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.

LOOP DETECTOR INSTALLATION DETAIL

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 (SPLICE) 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.

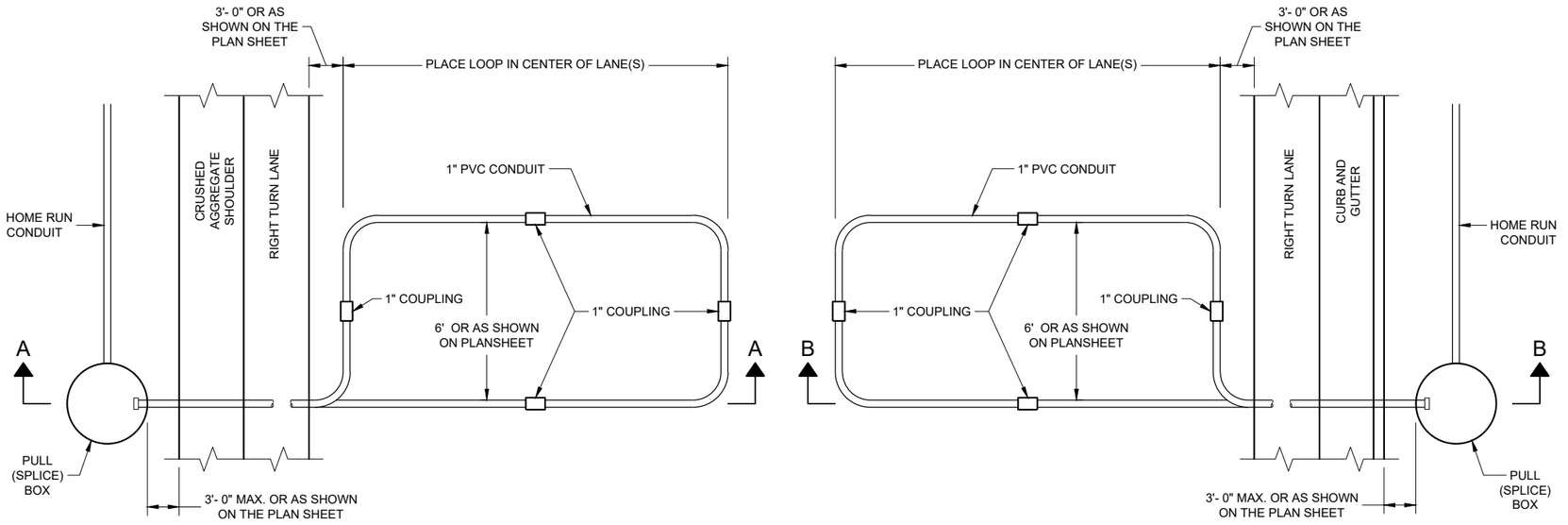
THE #12 AWG LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

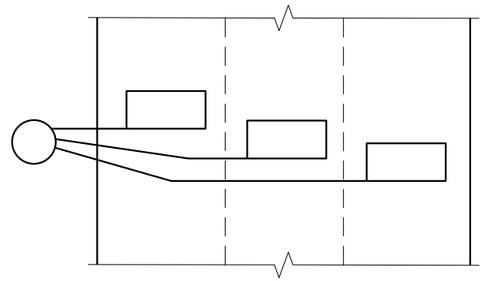
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN LOOP DETECTOR
WITH 24" PULL (SPLICE) BOX



MULTI-LANE
INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

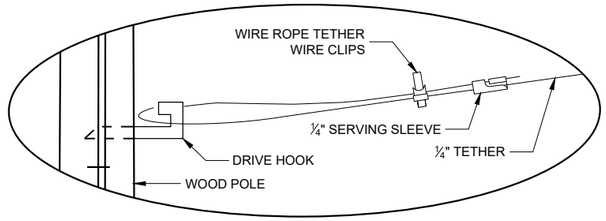
6

SDD 09F15 - 04b

6

SDD 09F15 - 04b

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

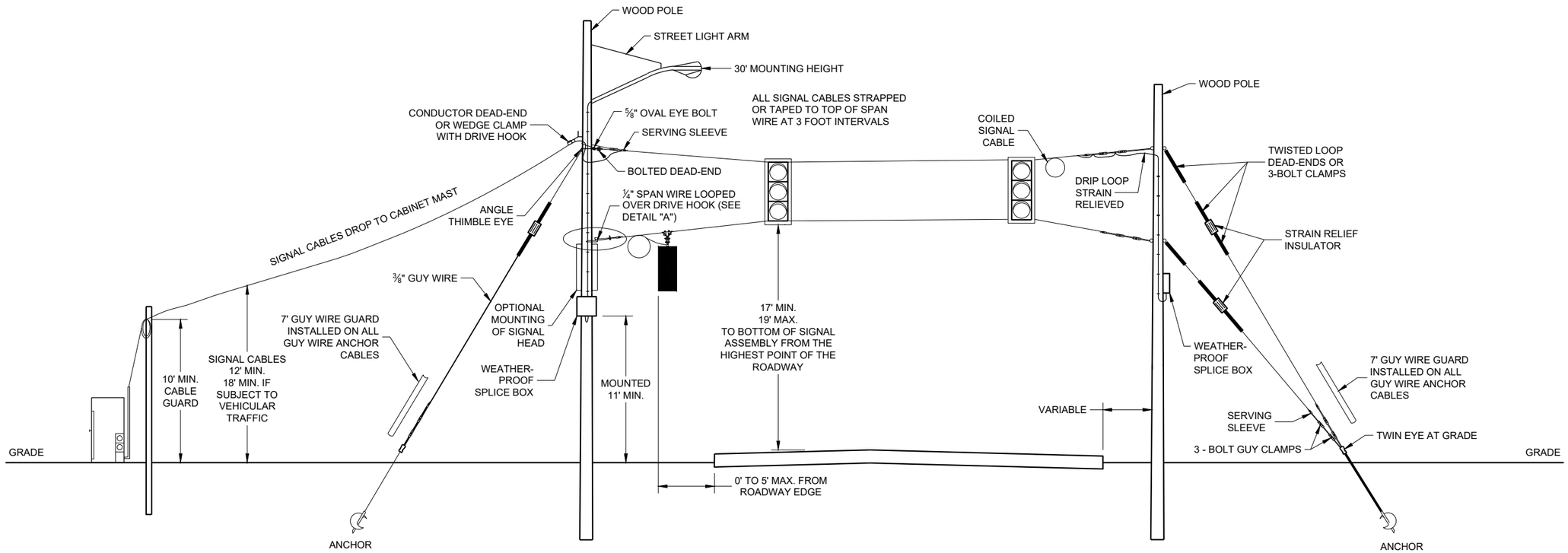


DETAIL "A"

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

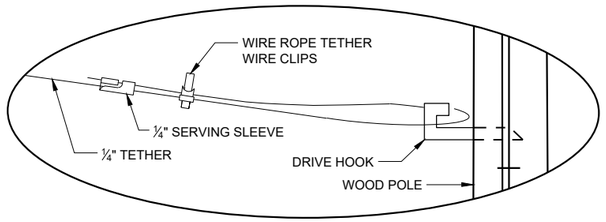
APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

FHWA

6

SDD09G01 - 04a

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

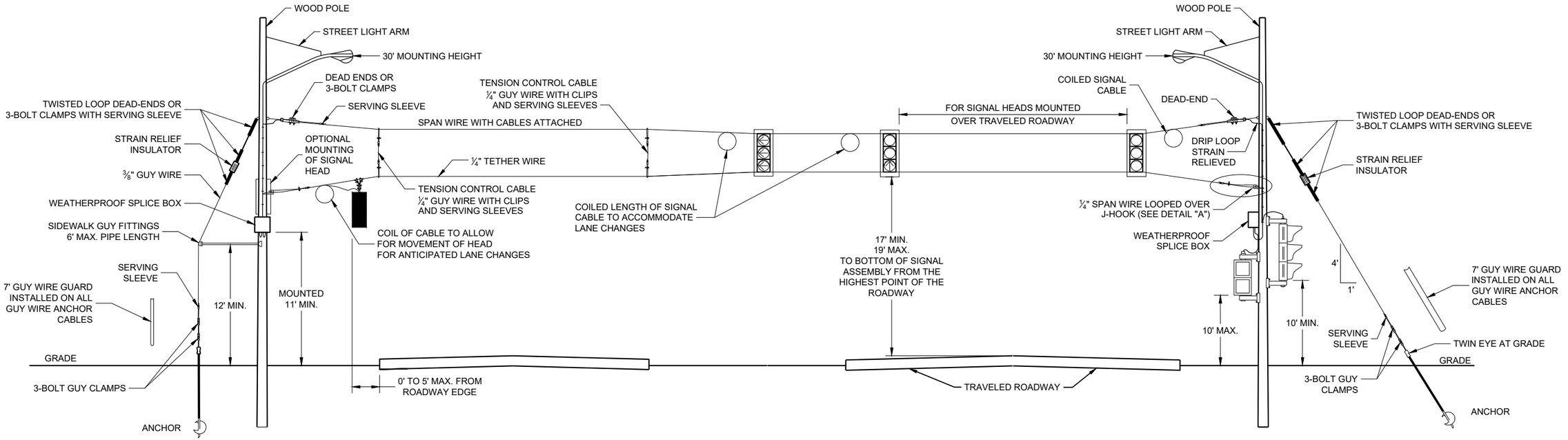


DETAIL "A"

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

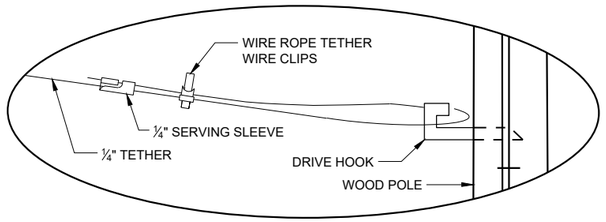
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI
FHWA

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'

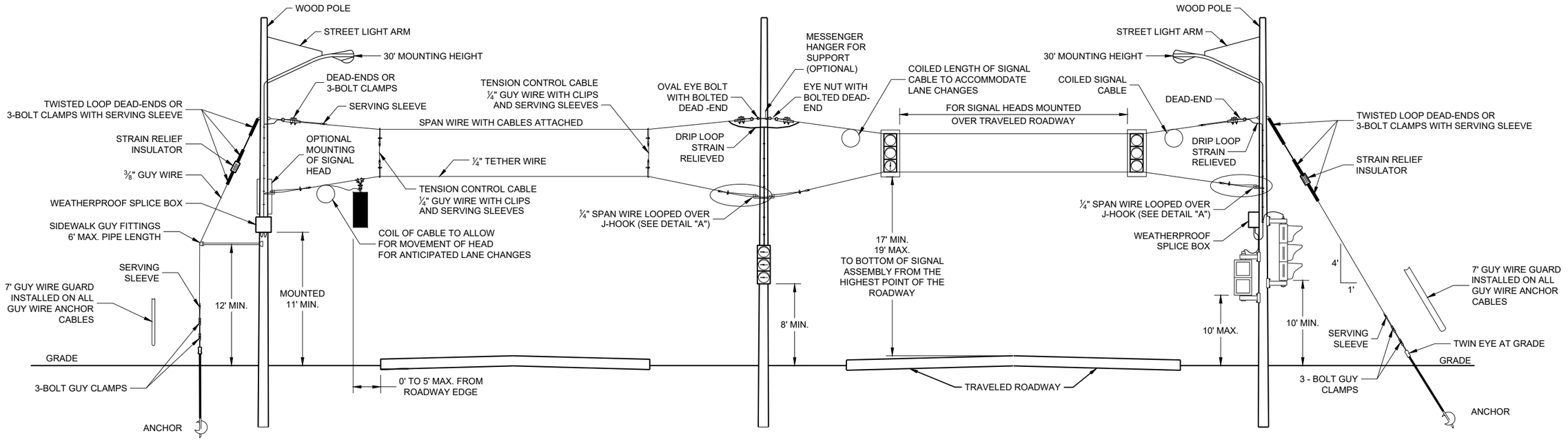


DETAIL "A"

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

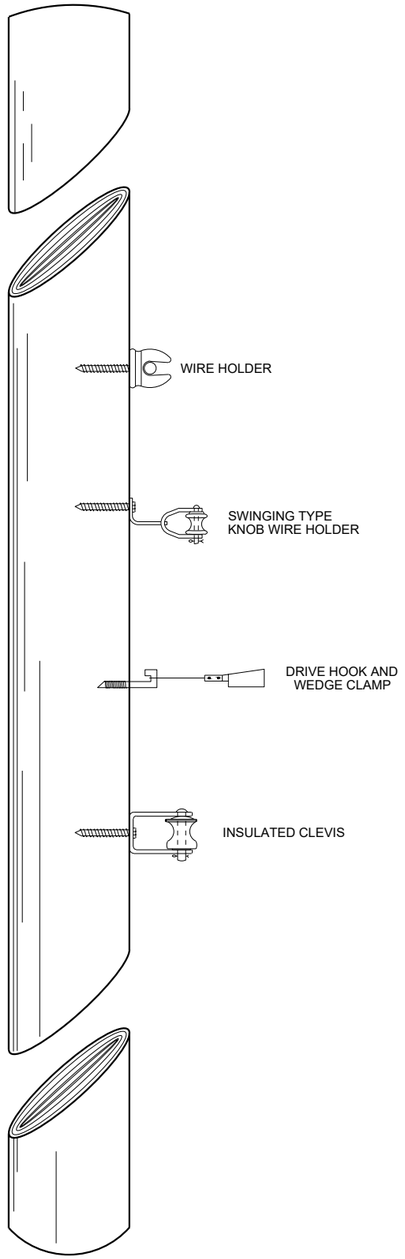
FHWA

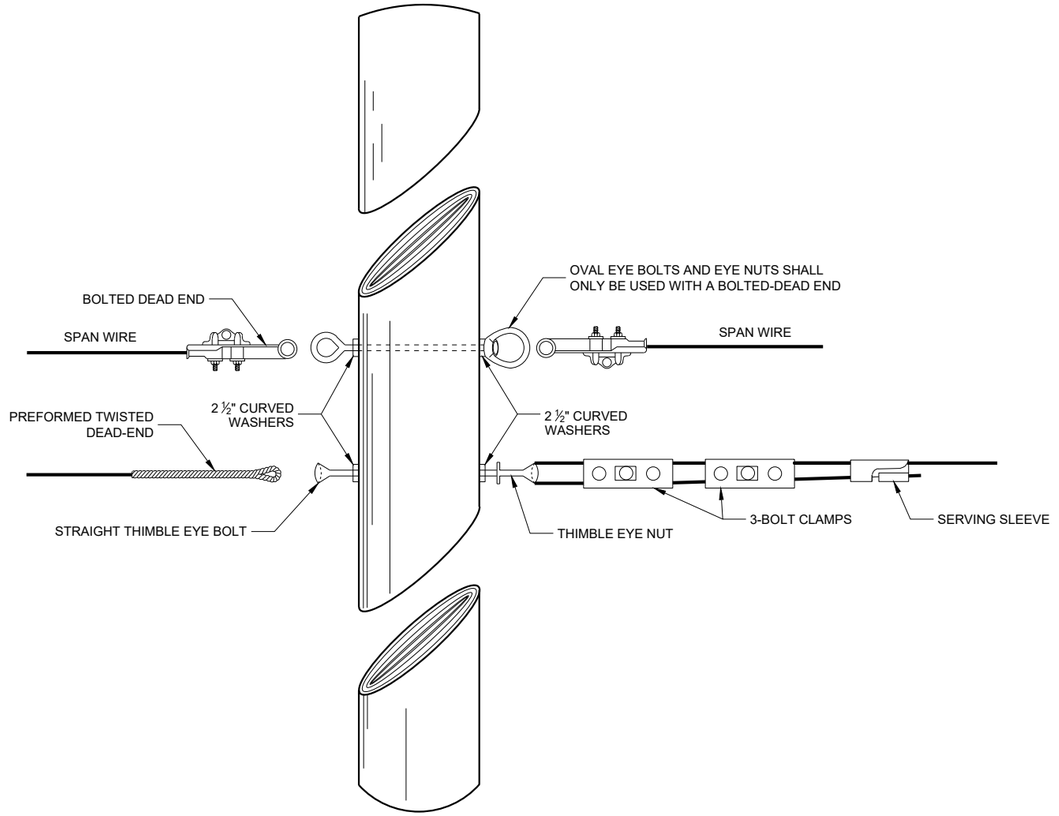
6

6

SDD09G01 - 04c

SDD09G01 - 04c





SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

FHWA

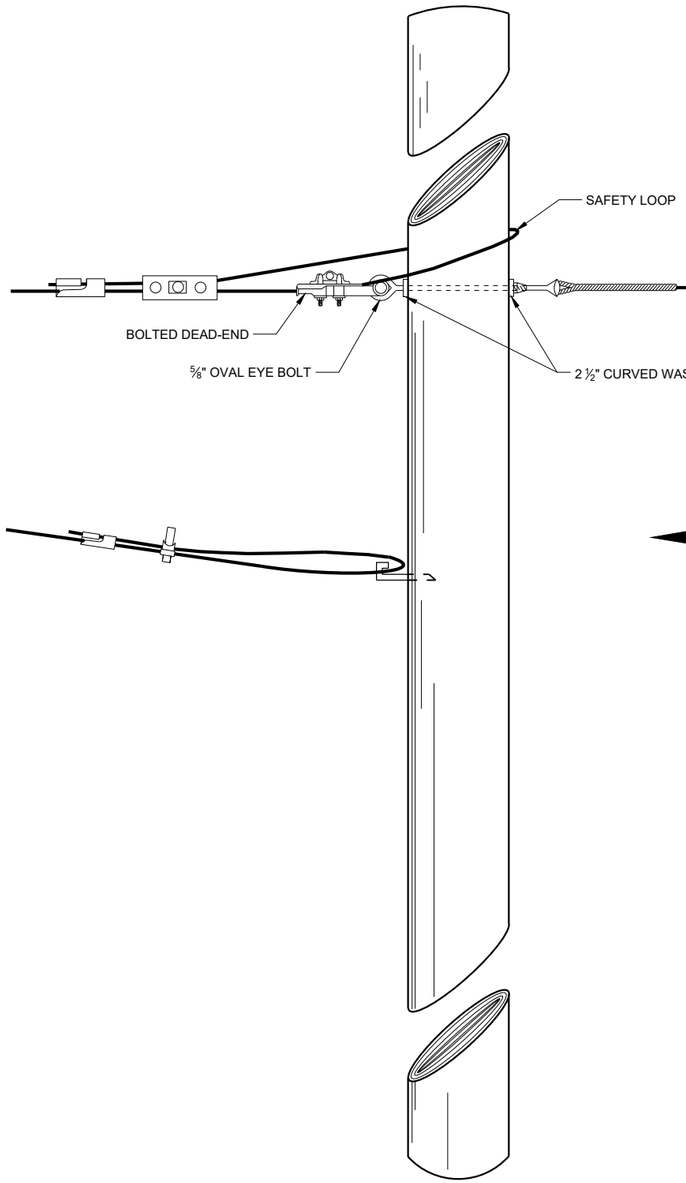
6

SDD 09G01 - 4d

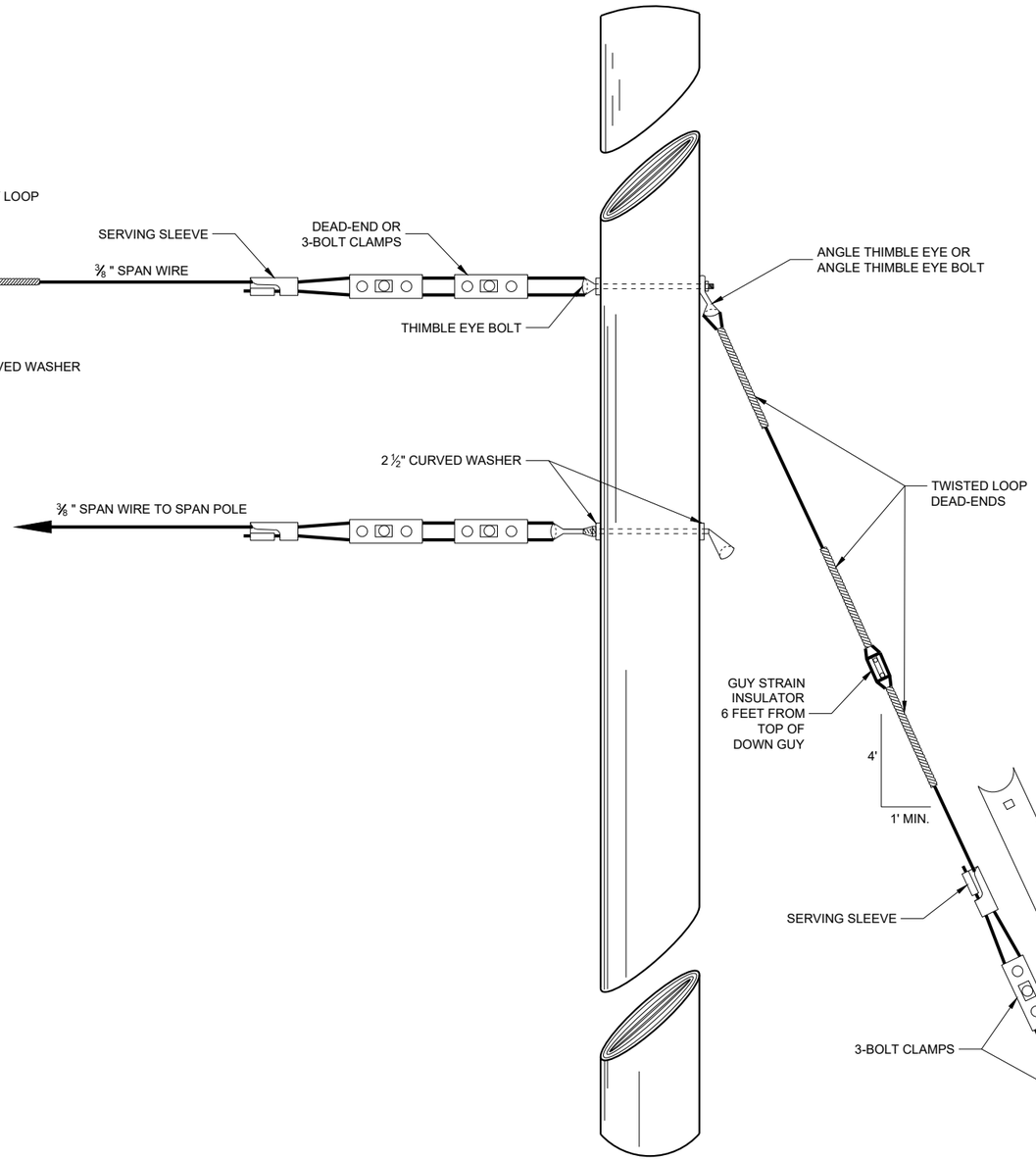
SDD 09G01 - 4d

GENERAL NOTES

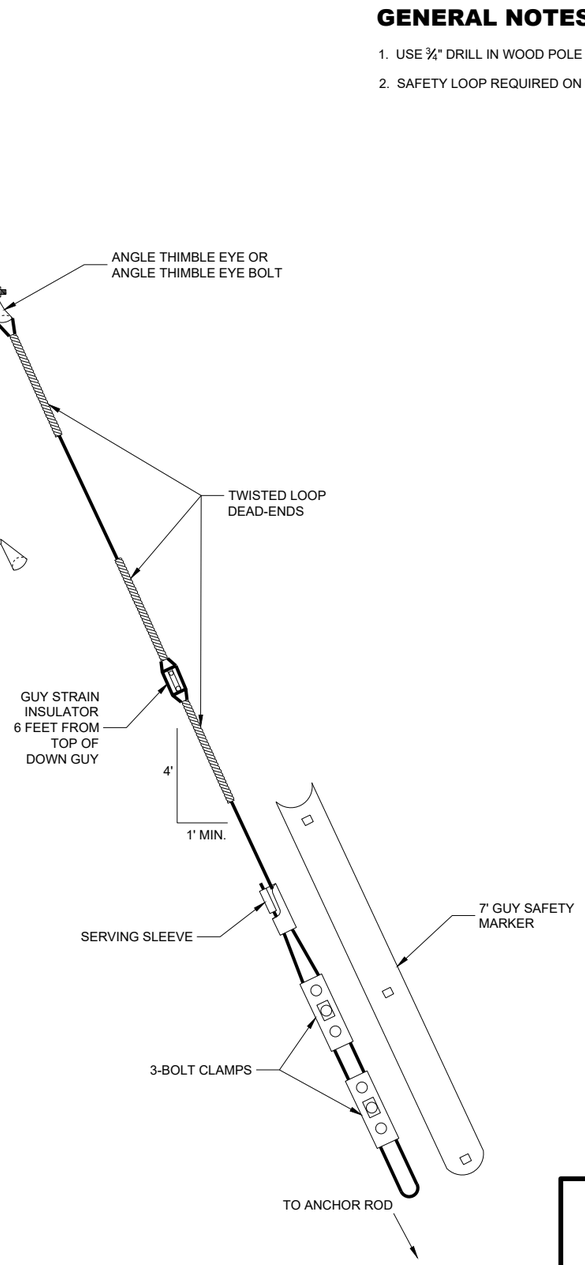
1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE



TYPICAL DEAD-ENDINGS OR GUYING

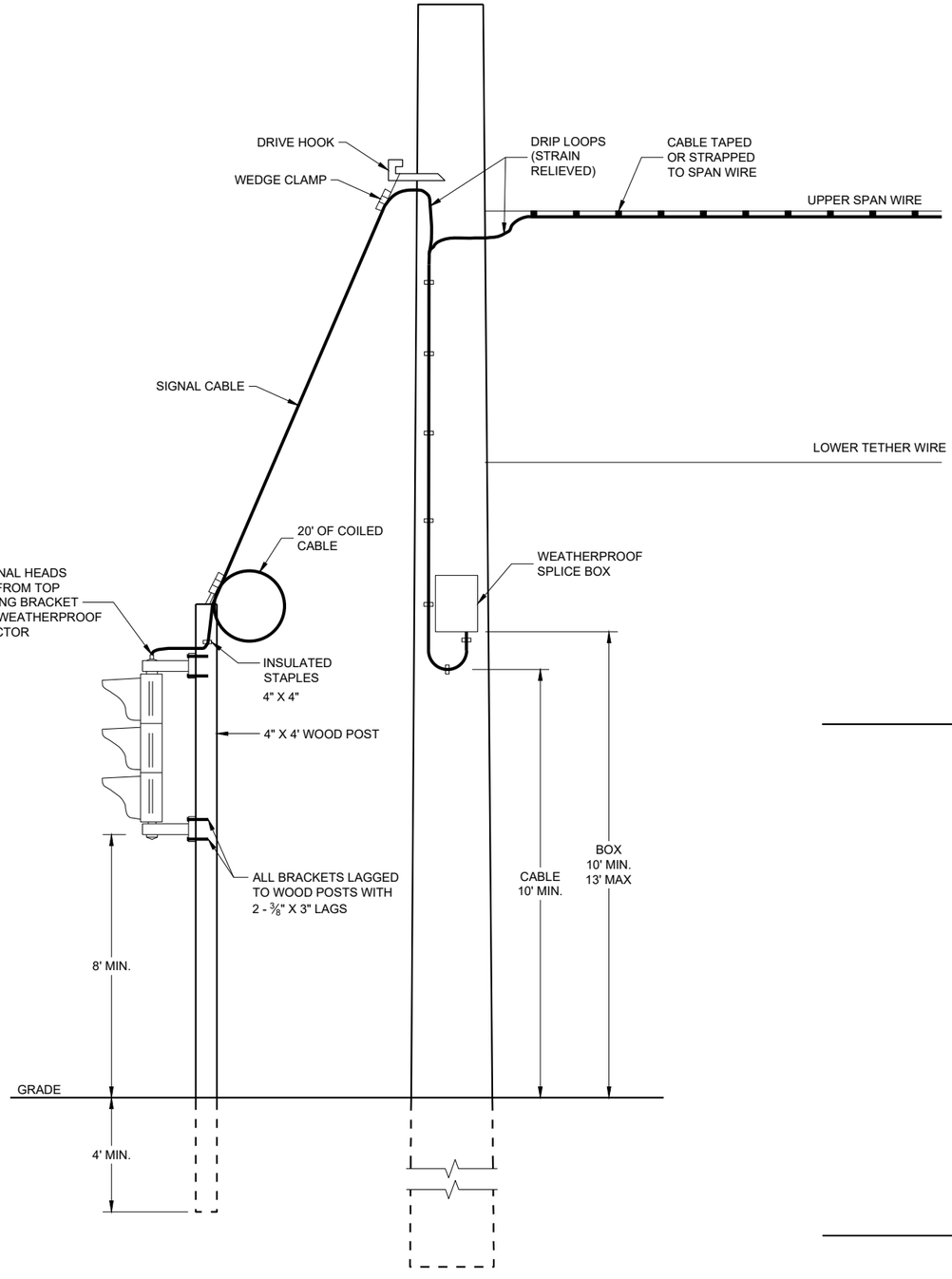
SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

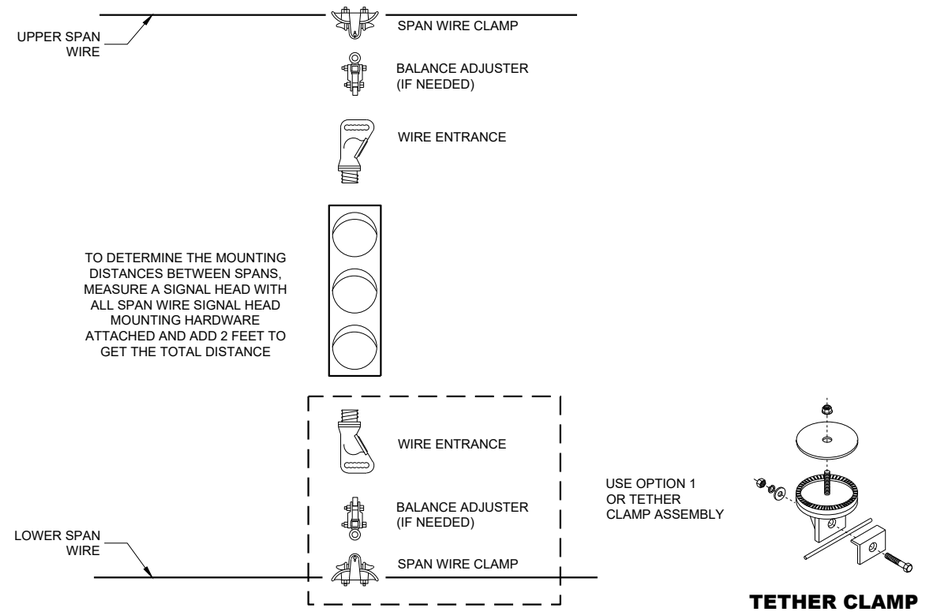
APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL

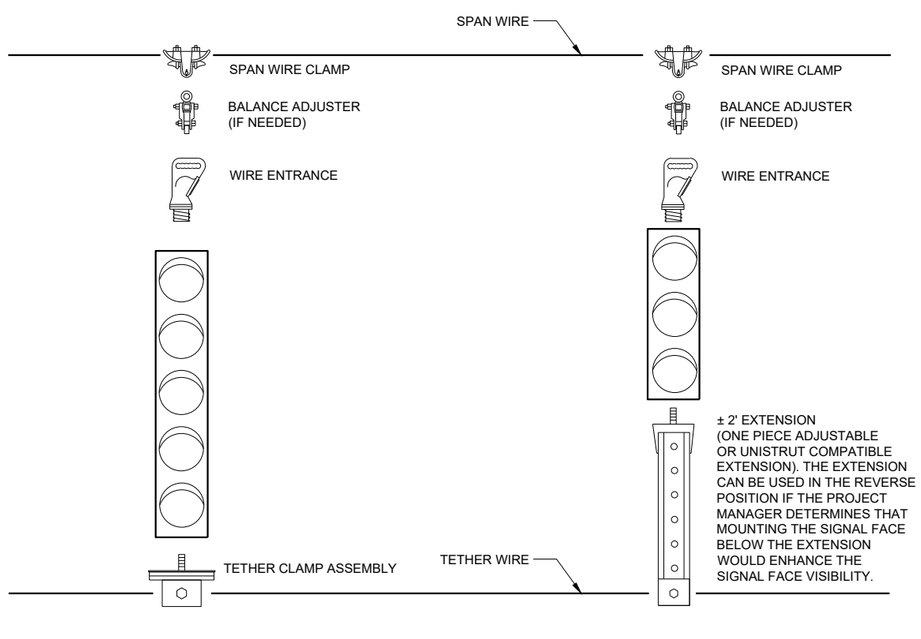


OPTION 1

USE OPTION 1 OR TETHER CLAMP ASSEMBLY

TETHER CLAMP ASSEMBLY OPTION

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

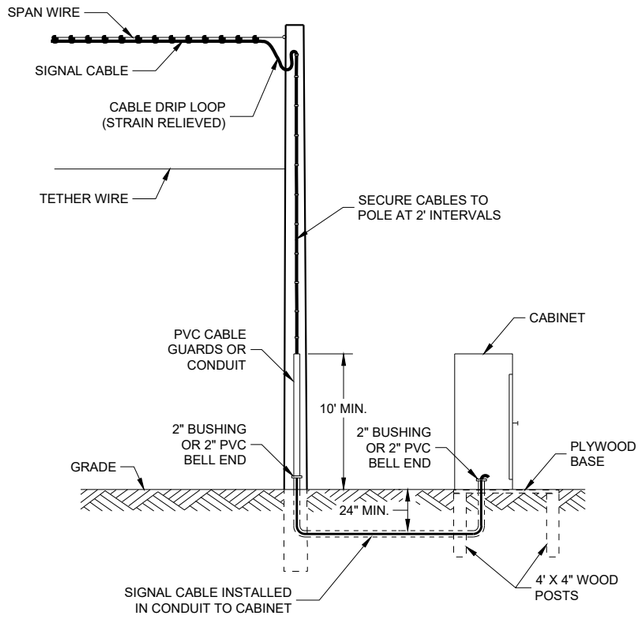
APPROVED
June 2015
DATE

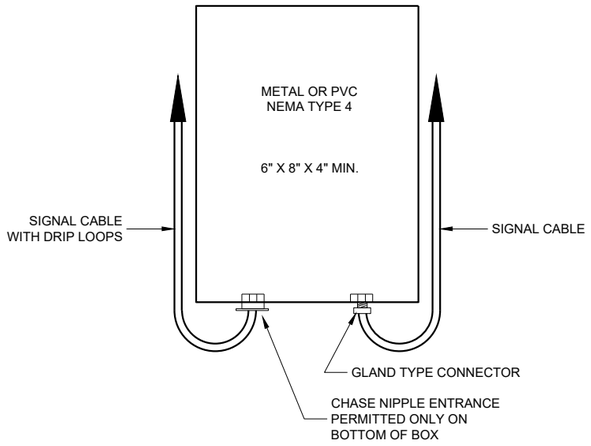
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

FHWA

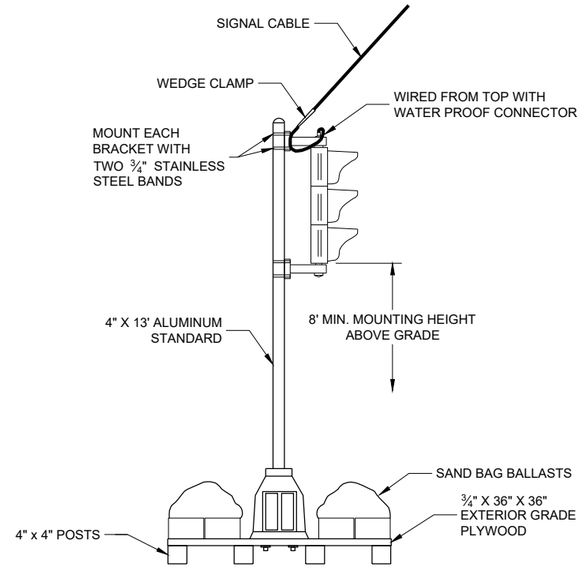
6

SDD 09G01 - 4f

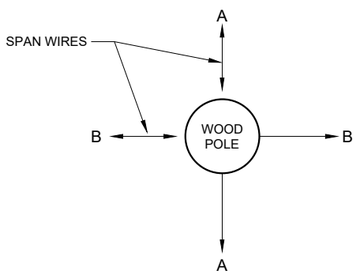




SPLICE BOX

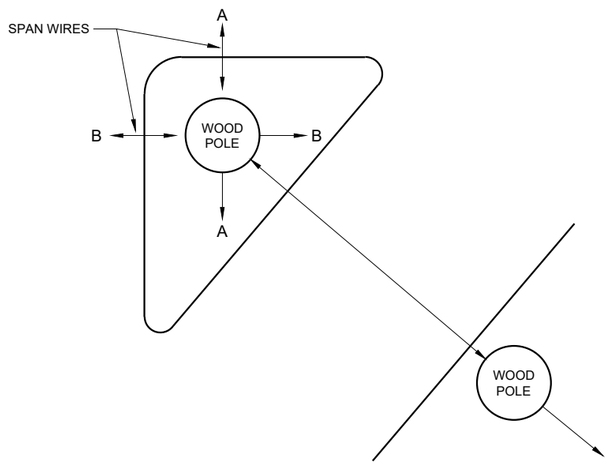


TYPICAL SKID TYPE TEMPORARY

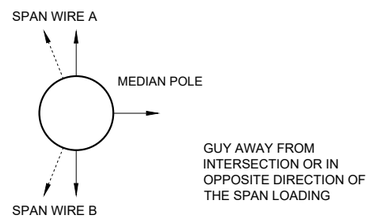


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

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

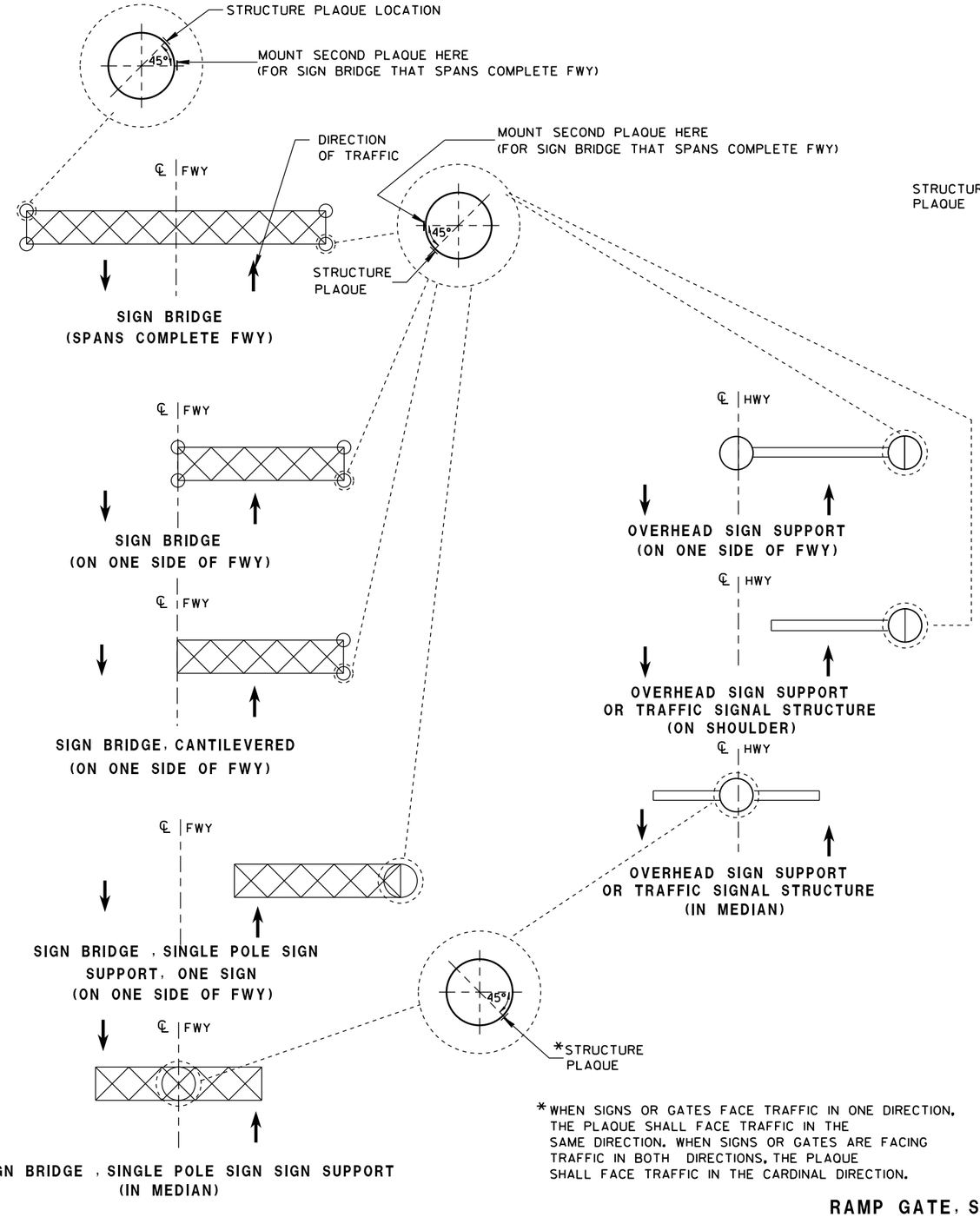
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

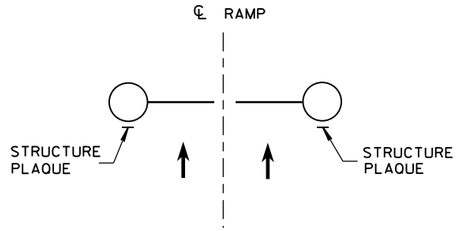
SDD 09G01 - 4g

SDD 09G01 - 4g

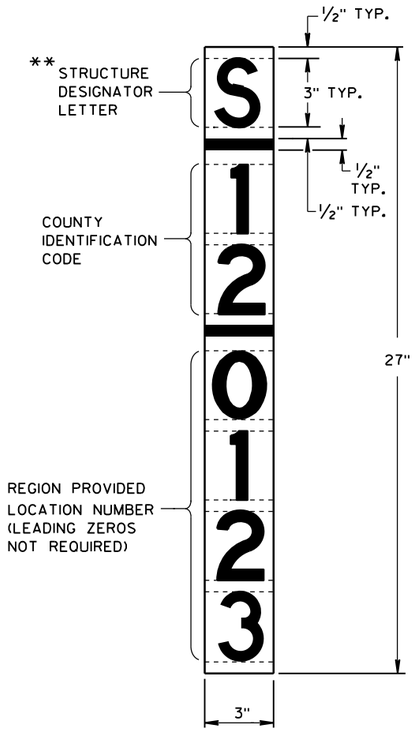


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



**RAMP GATE
(ACROSS FWY ON-RAMP)**



RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

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.

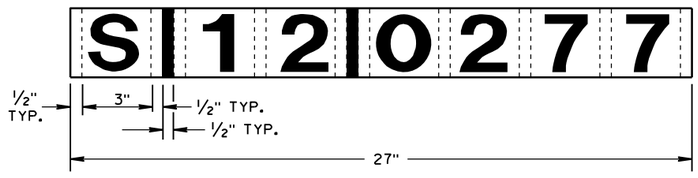
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

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

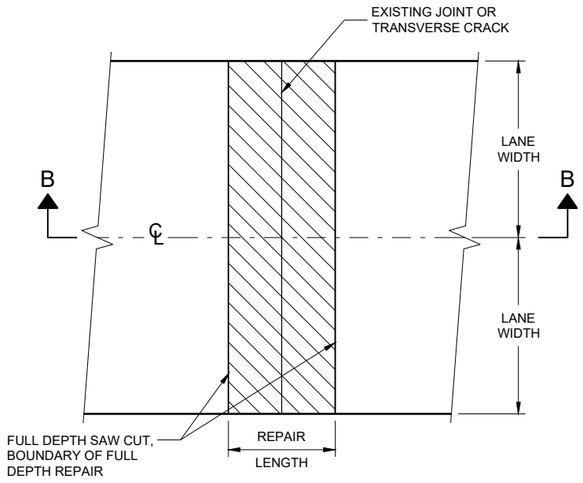
APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

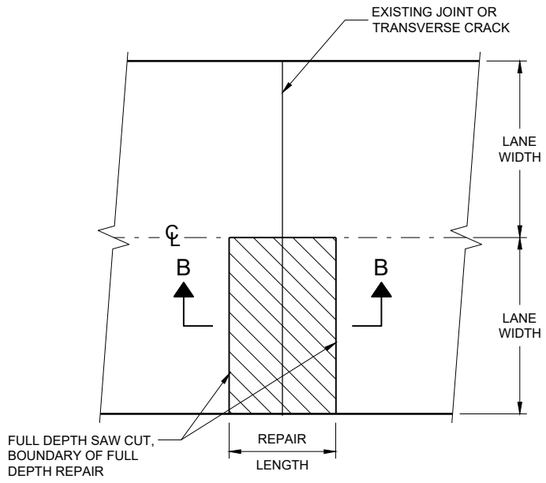
S.D.D. 12 A 4-3

6

S.D.D. 12 A 4-3

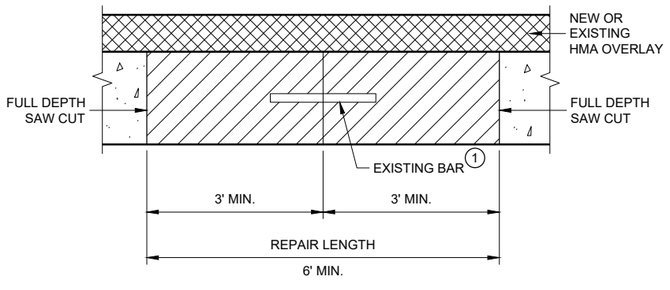


PLAN VIEW
DOUBLE LANE REPAIR



PLAN VIEW
SINGLE LANE REPAIR

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B - B
CONCRETE REMOVAL

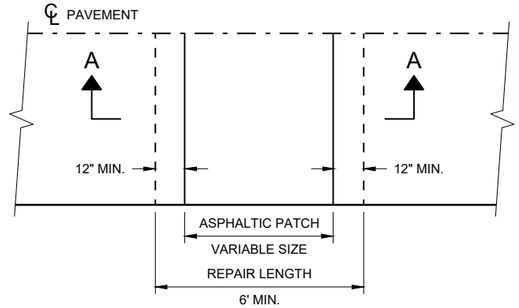
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

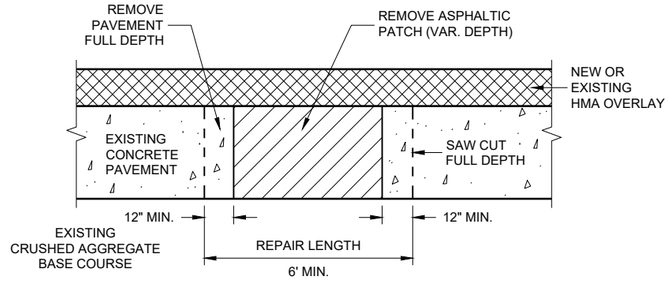
PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

(1) DOWEL BARS MAY NOT BE PRESENT.



PLAN VIEW



SECTION A - A

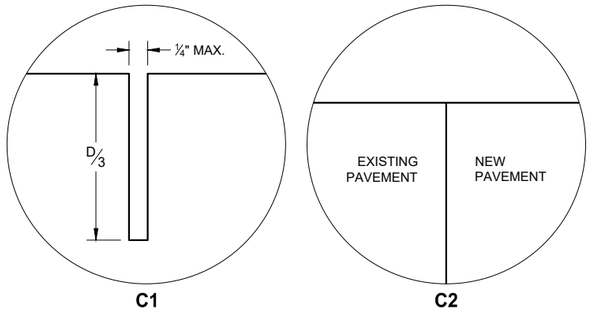
HMA PATCH REMOVAL

BASE PATCHING CONCRETE

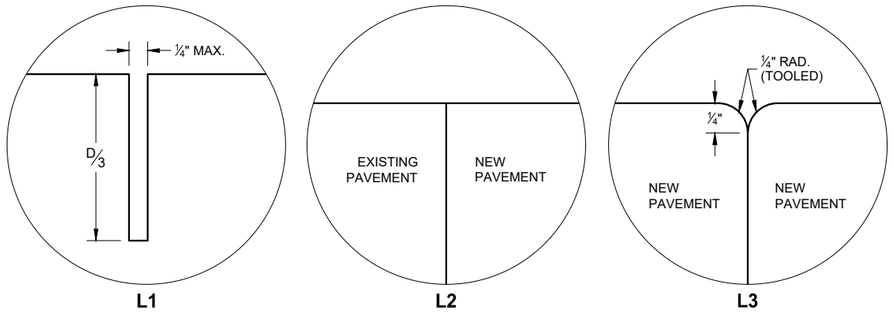
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

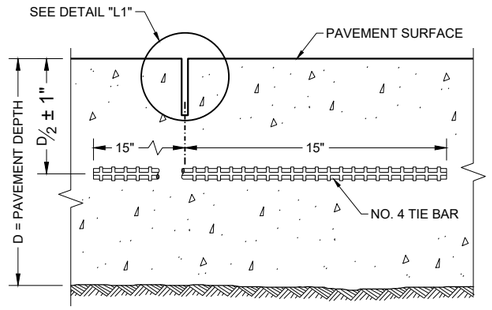
SDD 13C14 - 07a



TRANSVERSE JOINTS

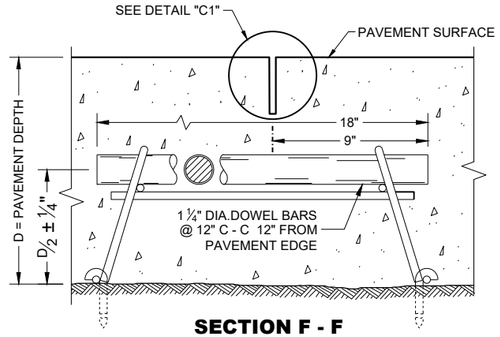


LONGITUDINAL JOINTS



SECTION C - C

SAWED LONGITUDINAL JOINT



SECTION F - F

CONTRACTION JOINT

GENERAL NOTES

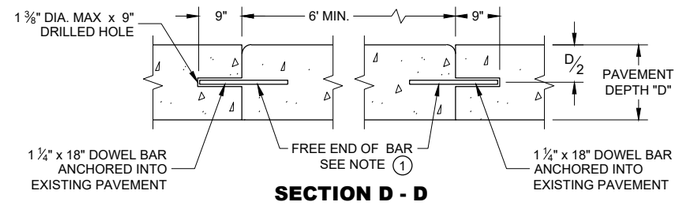
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NON-DOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

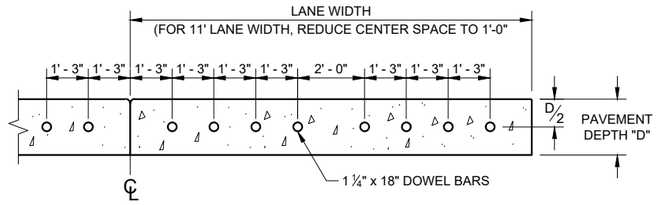
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT O EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

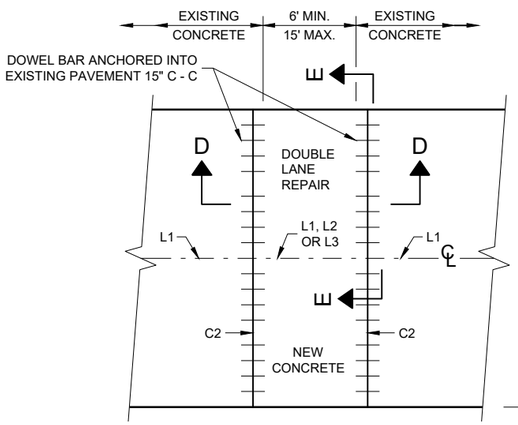


SECTION D - D



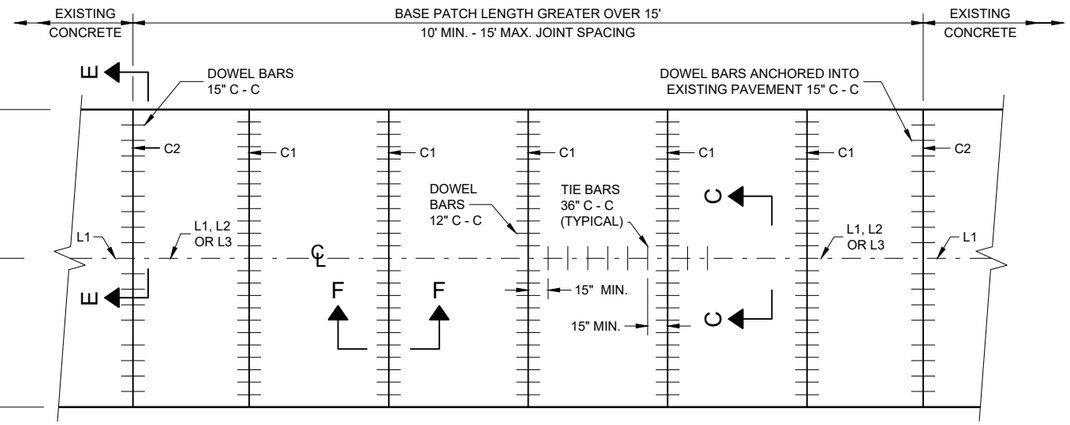
SECTION E - E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

MULTILANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTILANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE

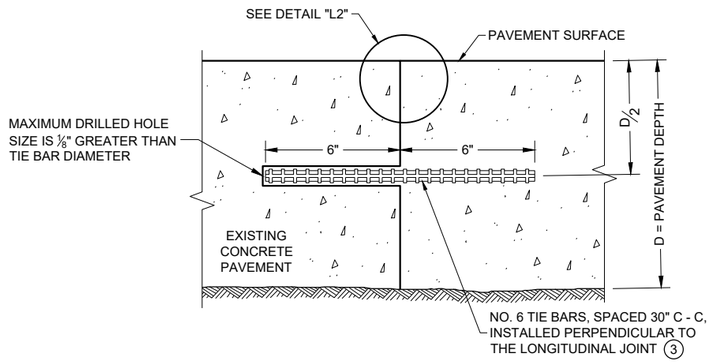
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 261

SDD 13C14 - 07b

SDD 13C14 - 07b

6

6

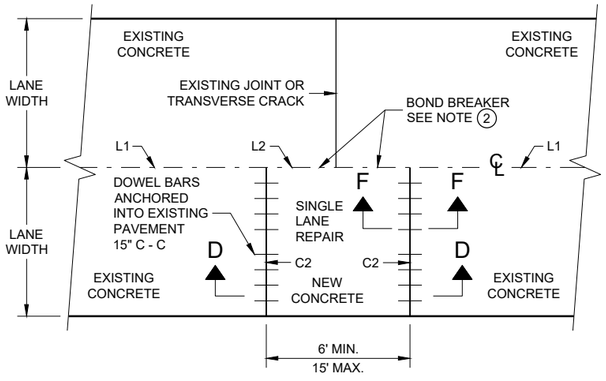


SECTION G - G

TIE BARS ANCHORED INTO EXISTING PAVEMENT

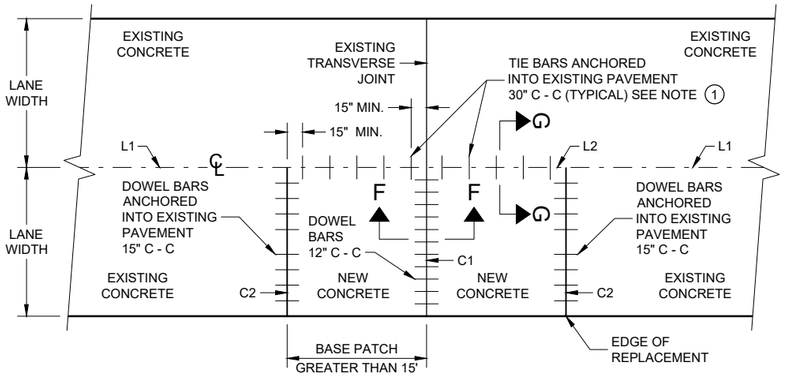
GENERAL NOTES

1. WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
2. USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
3. ANCHOR TIE BARS INTO DRILLED HOES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' LENGTH

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

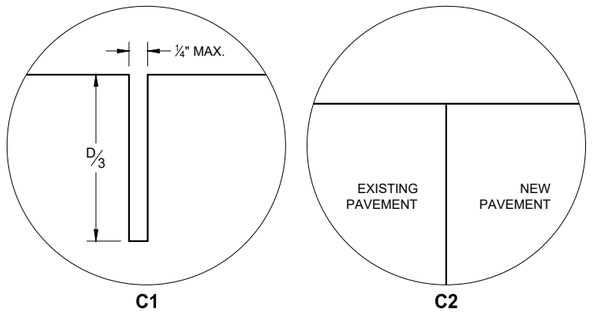
/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISO

FHWA

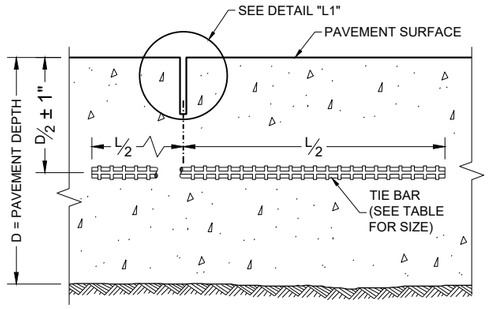
6

SDD 13C14 - 07c

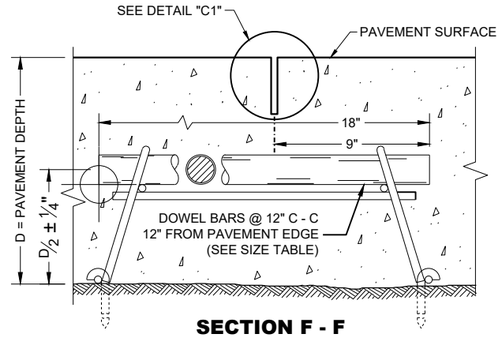
SDD 13C14 - 07c



TRANSVERSE JOINTS



SECTION C - C
SAWED JOINT



SECTION F - F
CONTRACTION JOINT

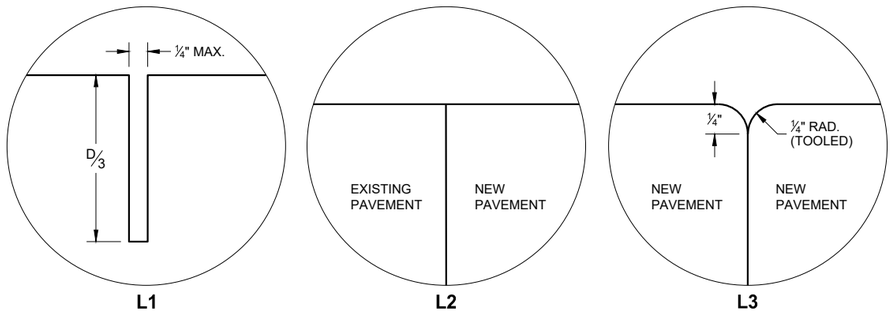
GENERAL NOTES

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

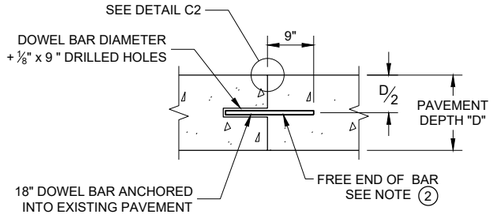
PROVIDE A MIMIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

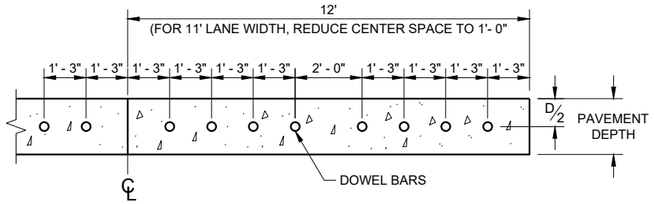
(2) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



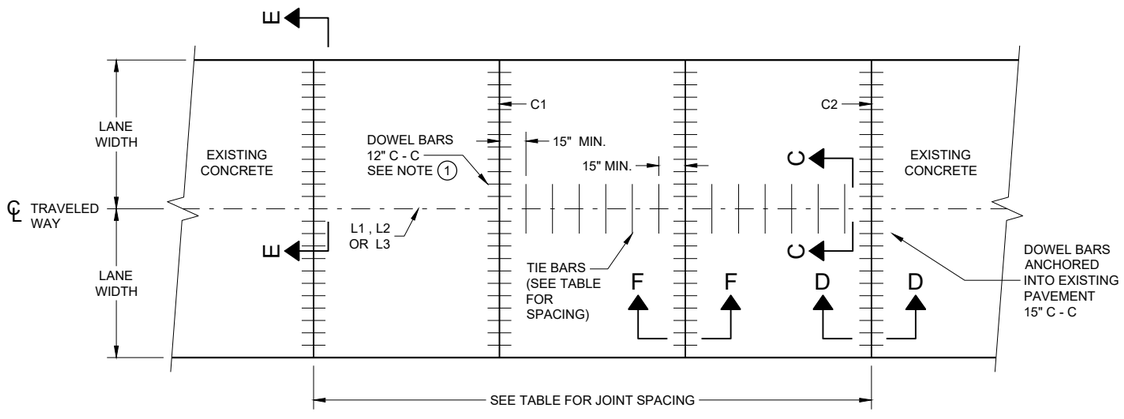
LONGITUDINAL JOINTS



SECTION D - D



SECTION E - E
SPACING OF DOWEL BARS
ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW
CONCRETE BASE
CONTRACTION JOINT LOCATIONS

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'

CONCRETE BASE

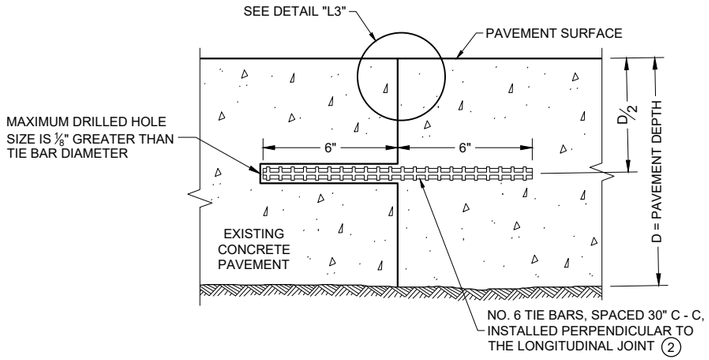
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C15 - 08a
SDD 13C15 - 08a

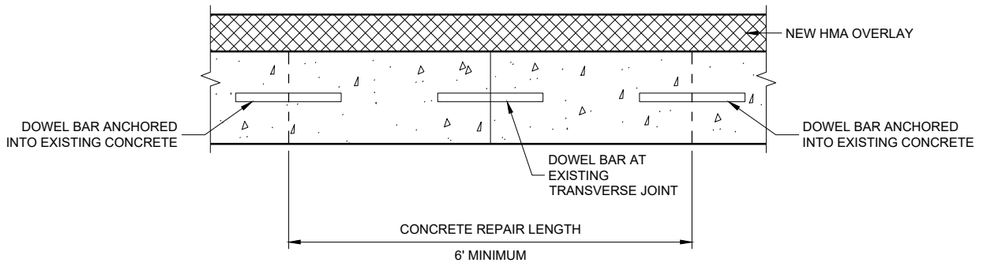
GENERAL NOTES

1. USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) AT THE LONGITUDINAL JOINT IN LIEU OF TIE BARS FOR SINGLE LANE CONCRETE BASE REPAIRS UP TO 15 FEET IN LENGTH.
2. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.
3. PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

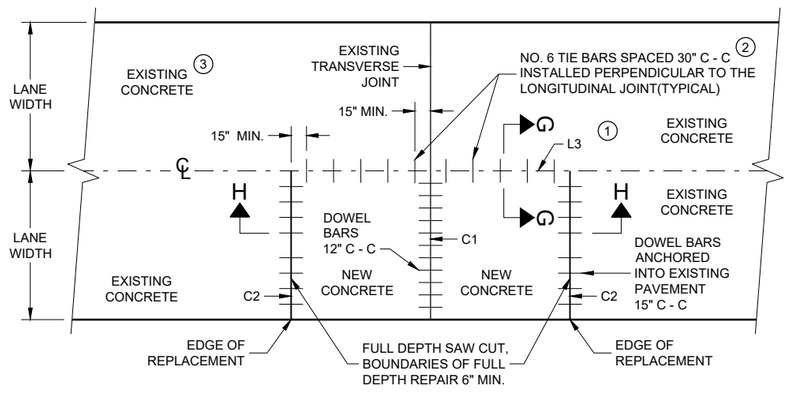


SECTION G - G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



SECTION H - H



PLAN VIEW

SINGLE LANE CONCRETE BASE REPAIR

6

SDD 13C15 - 08b

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

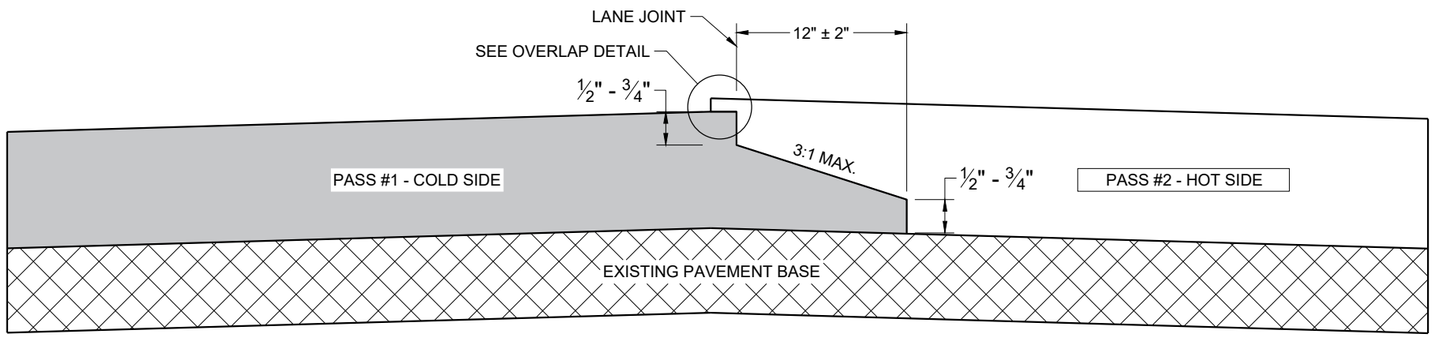
APPROVED
November 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

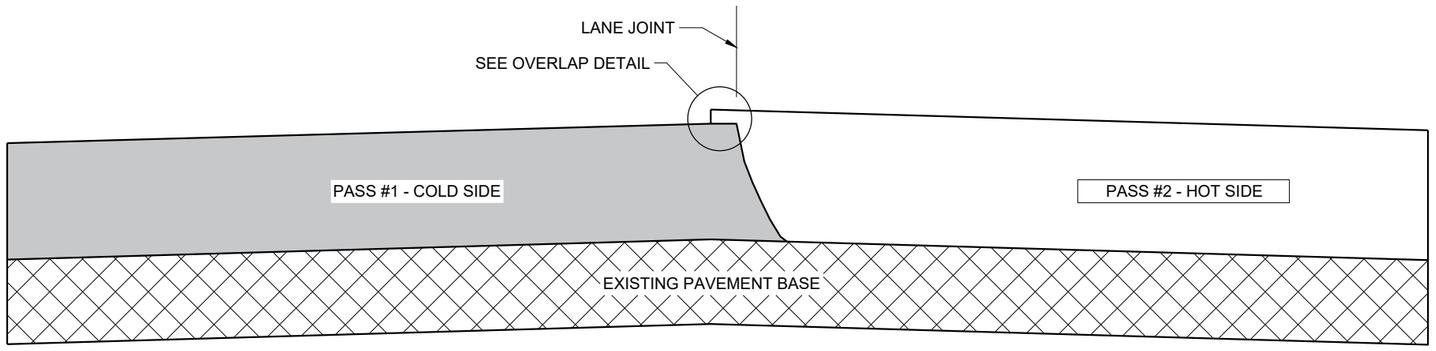
FHWA

6

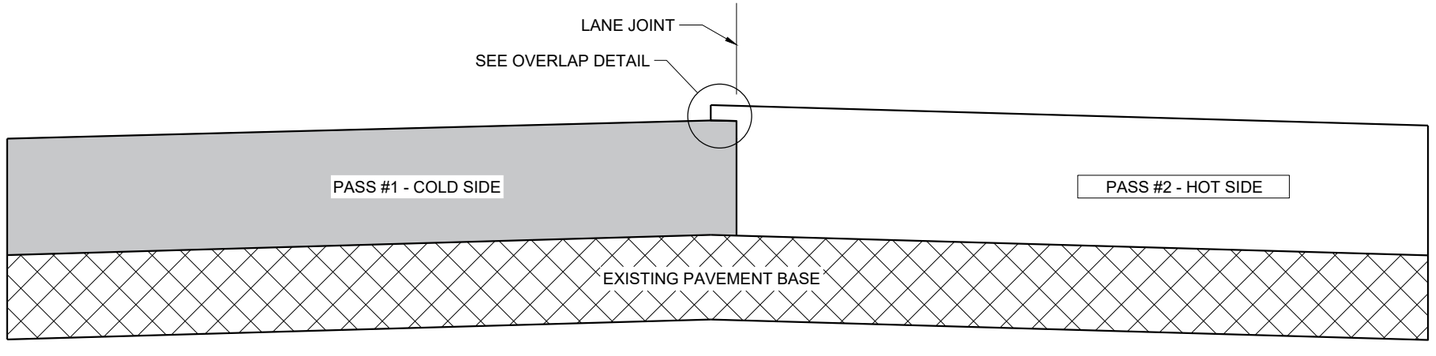
SDD 13C15 - 08b



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

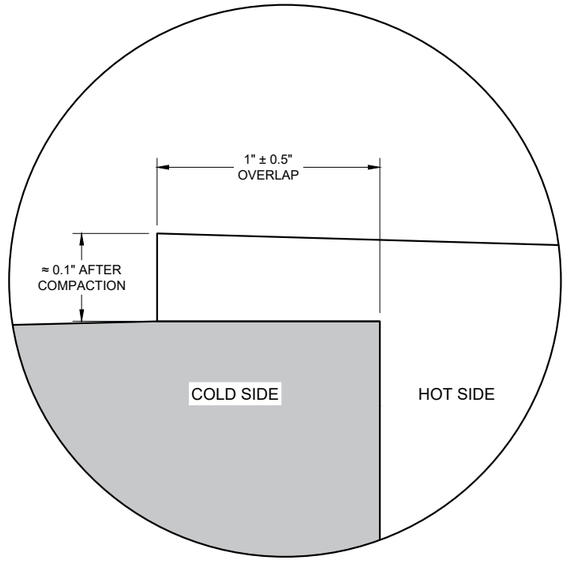
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

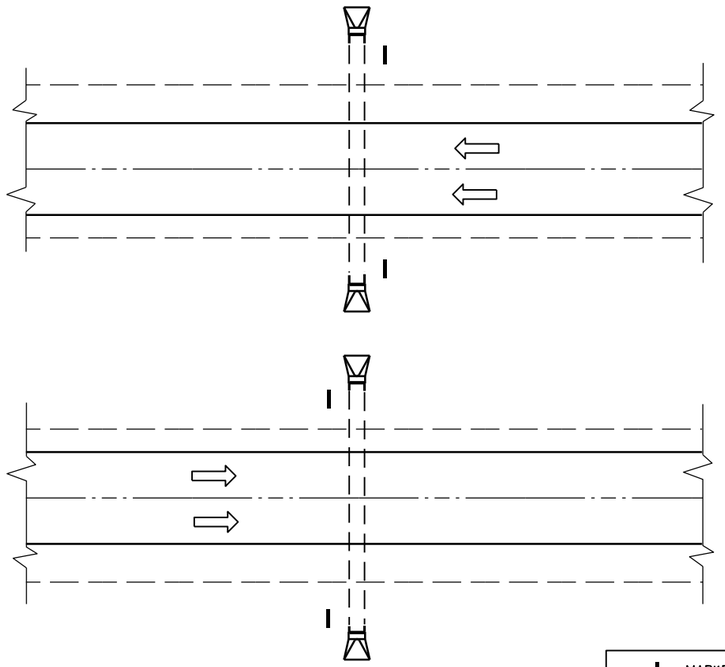
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

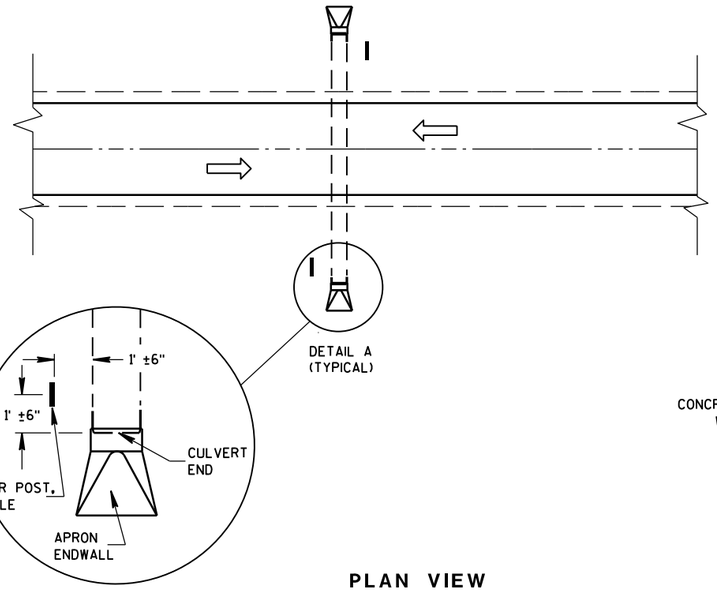
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

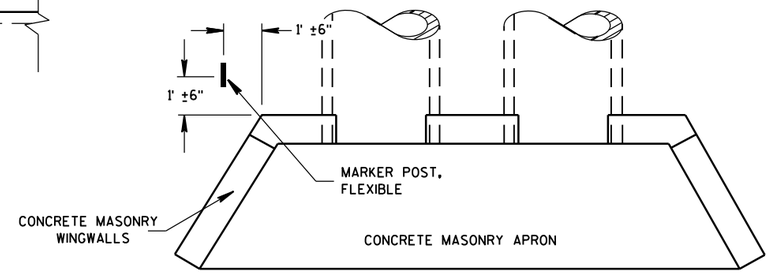
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

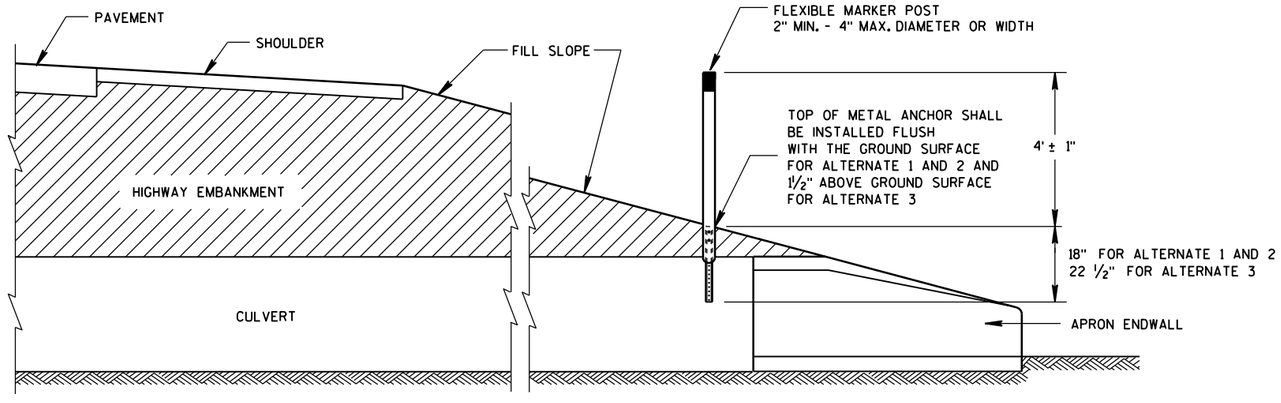
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

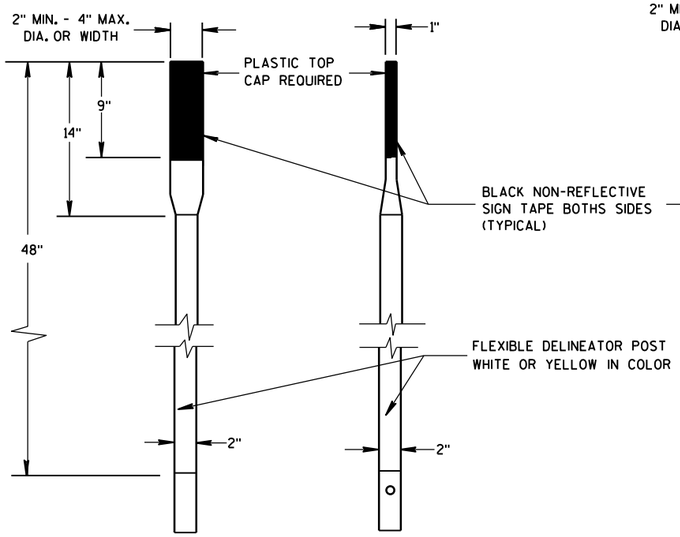
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

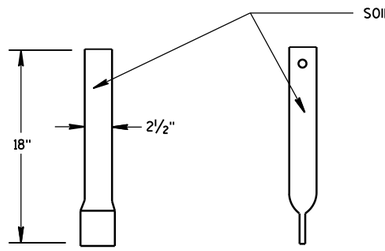
6

S.D.D. 15 A 3-2a

6

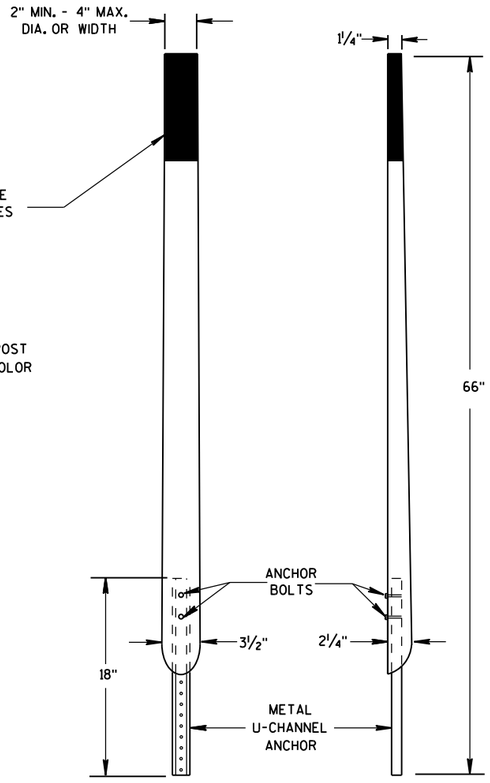
S.D.D. 15 A 3-2a





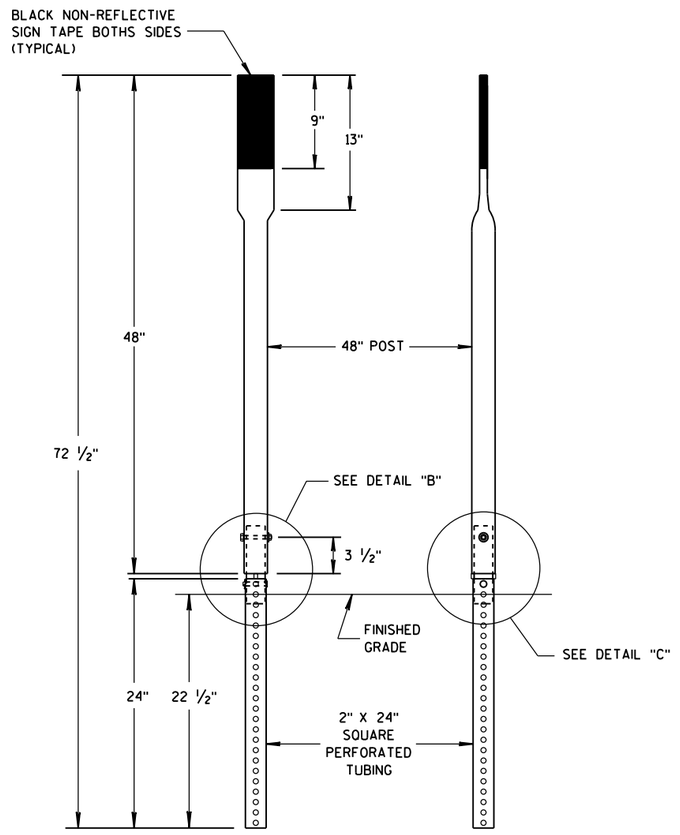
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

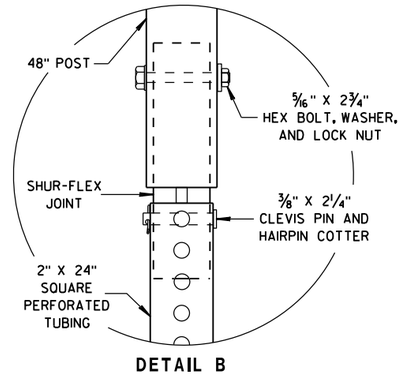
ALTERNATE 2



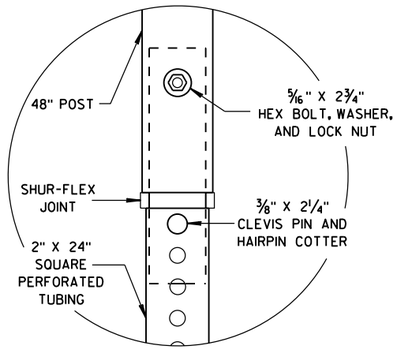
FRONT VIEW SIDE VIEW

ALTERNATE 3

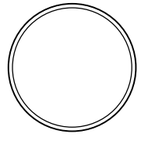
FLEXIBLE MARKER POSTS



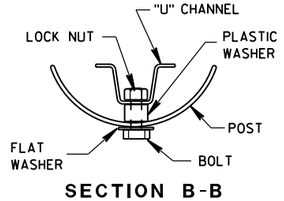
DETAIL B



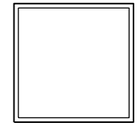
DETAIL C



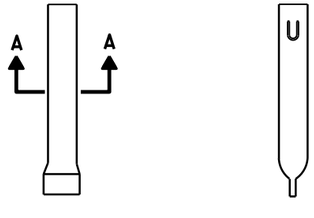
SECTION A-A



SECTION B-B

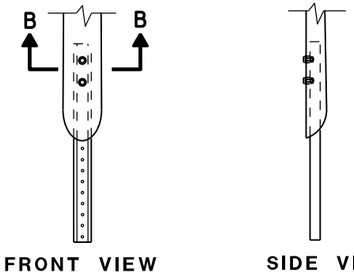


SECTION C-C



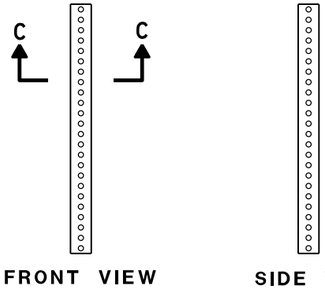
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

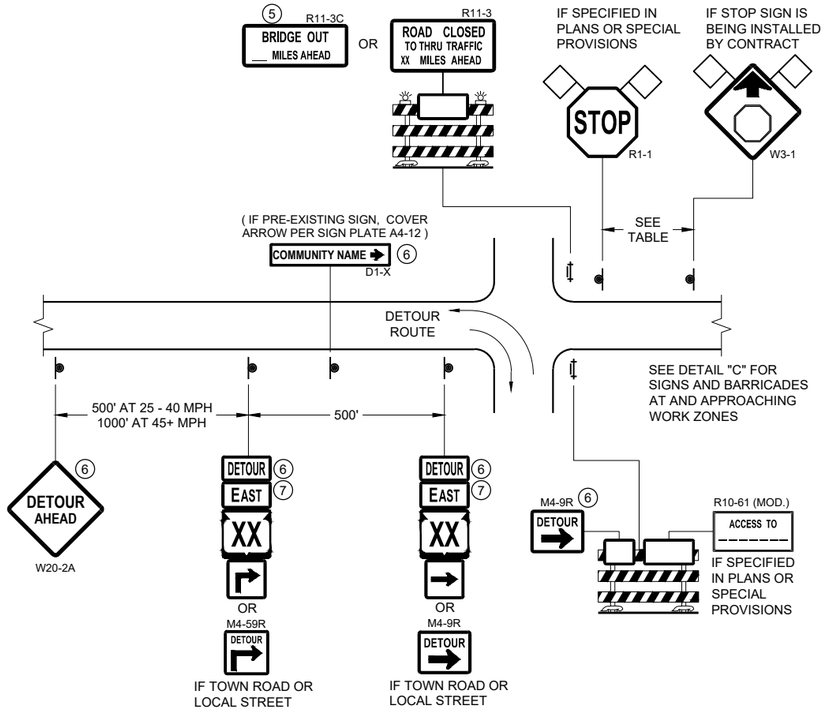
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 A 3-2b

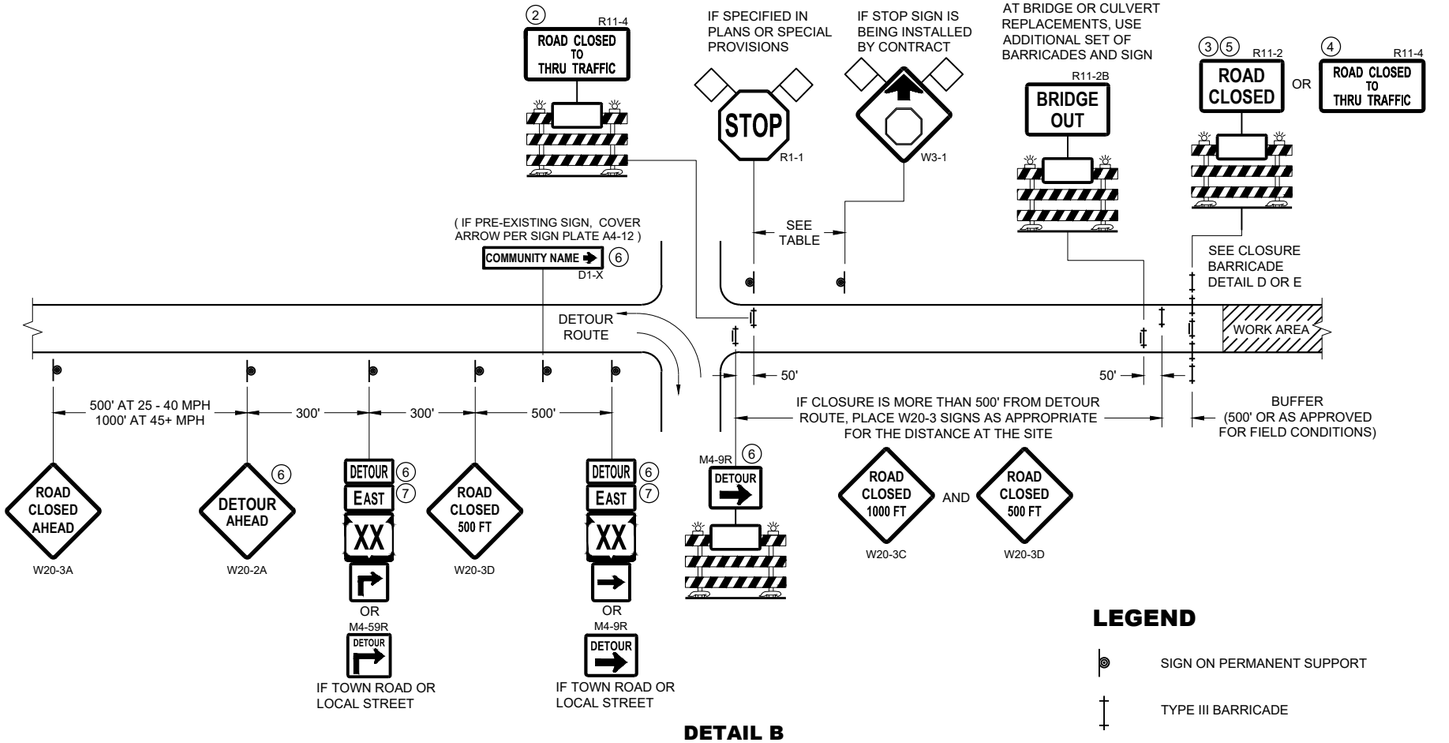
6

S.D.D. 15 A 3-2b



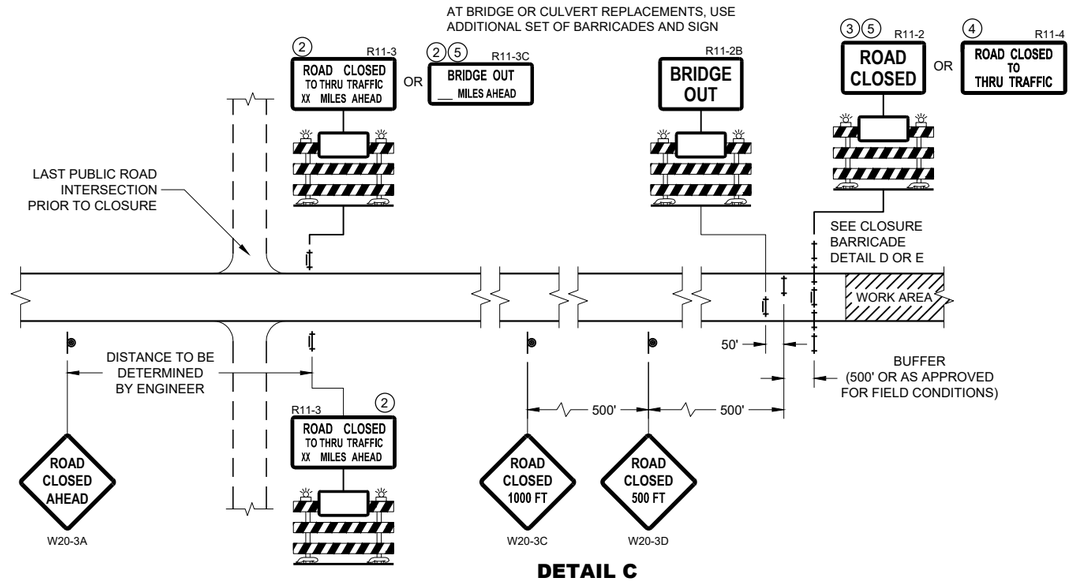
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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)



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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

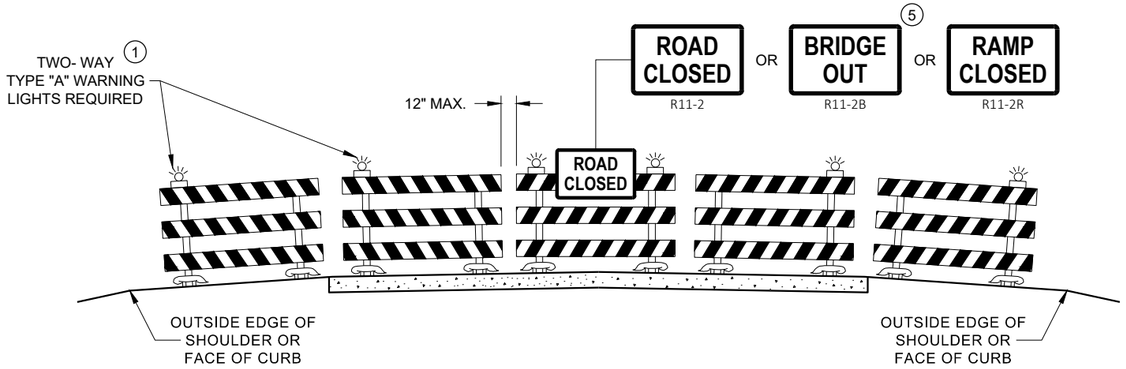
FHWA

6

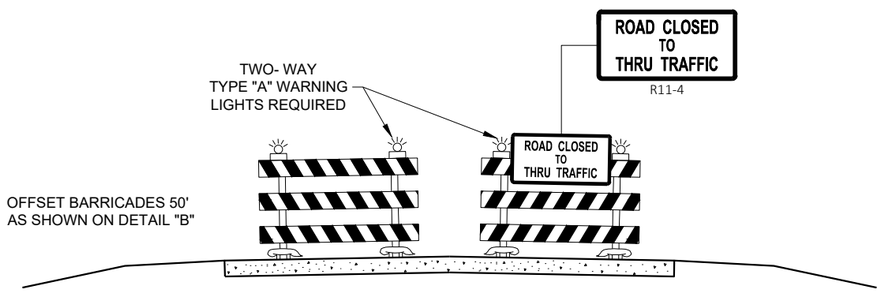
SDD 15C02 - 09a

6

SDD 15C02 - 09a



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
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 09b

6

SDD 15C02 - 09b

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 — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR 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.

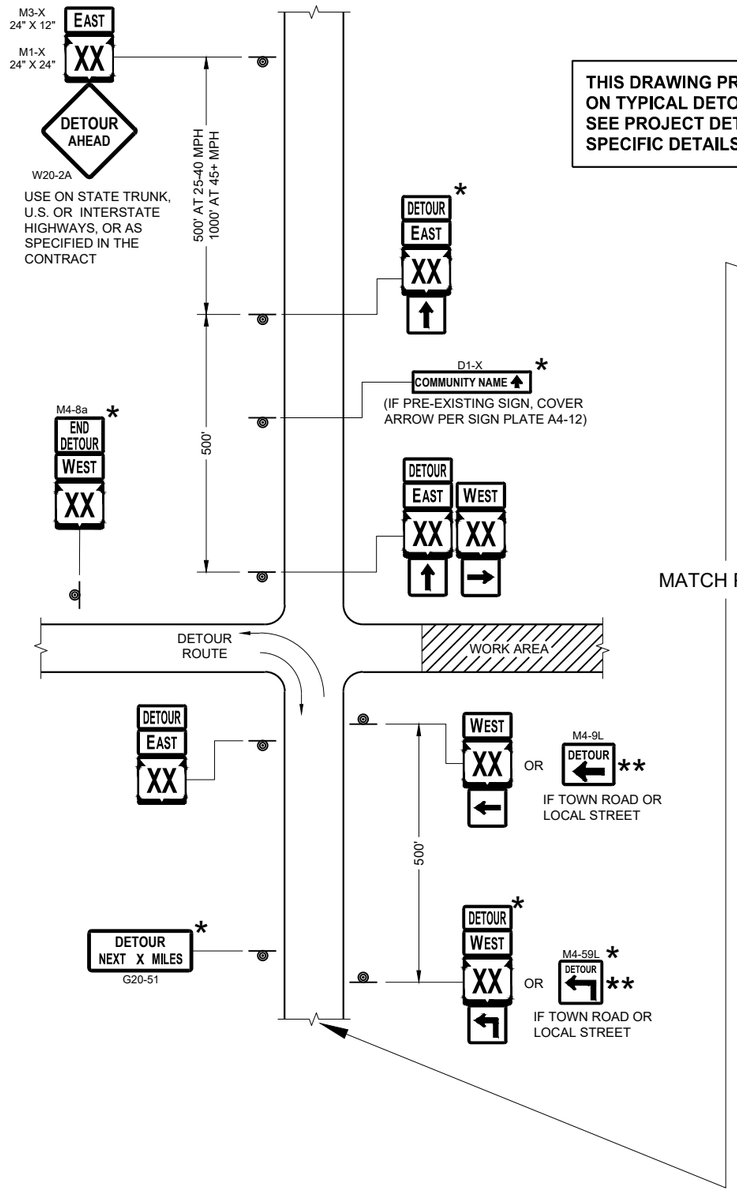
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

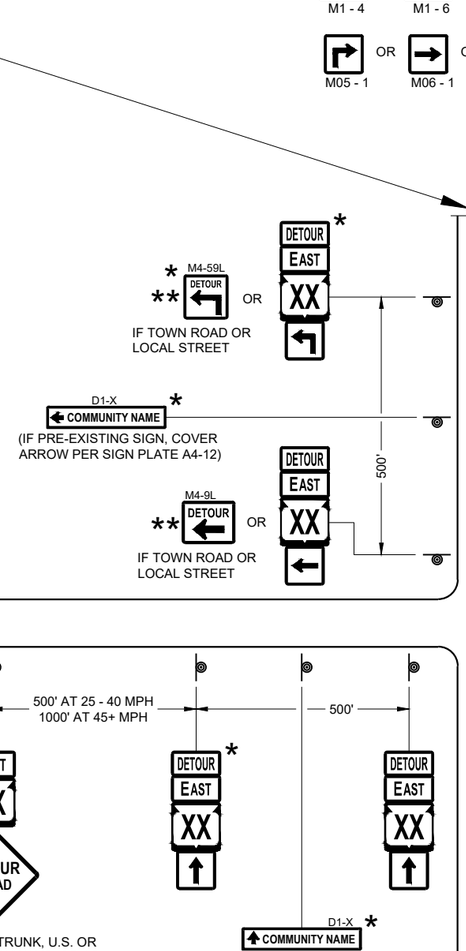
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING 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.

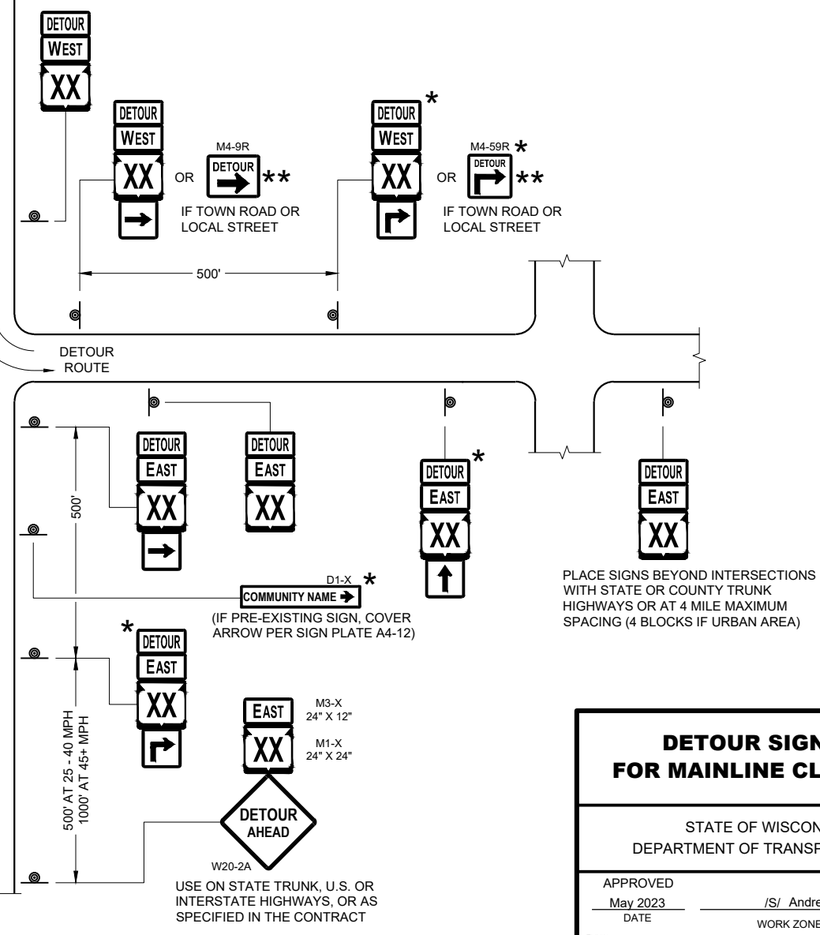
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** 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.



MATCH POINT





SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

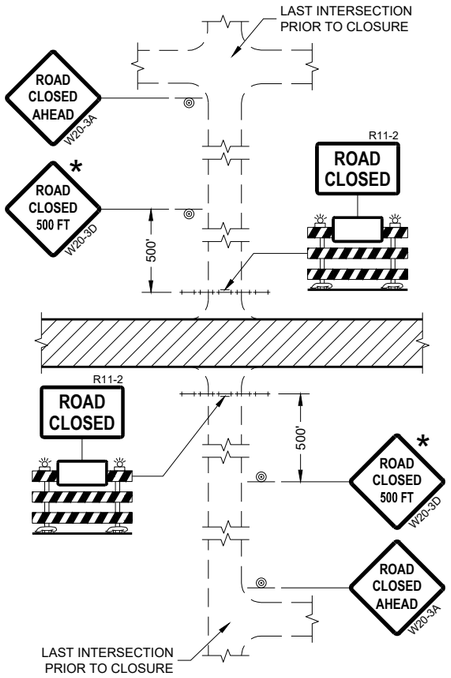
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

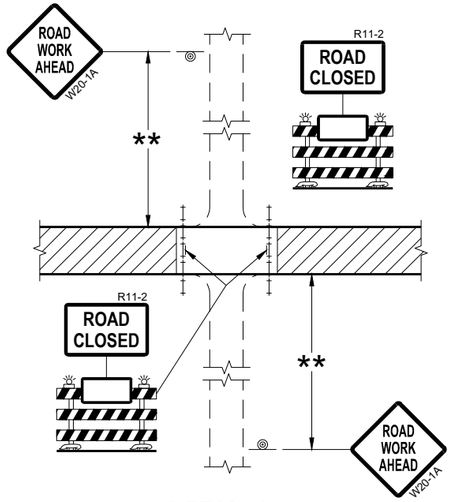
FHWA

6

SDD 15C02 - 09c



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.

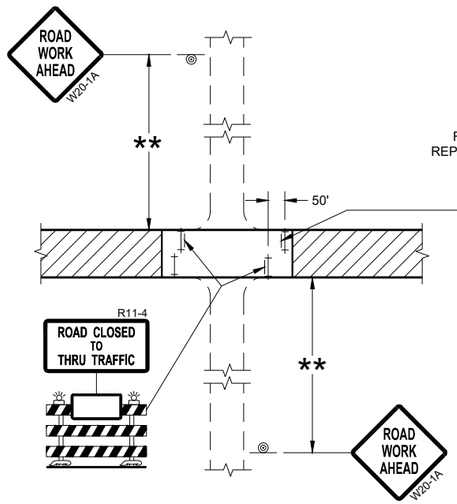
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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.

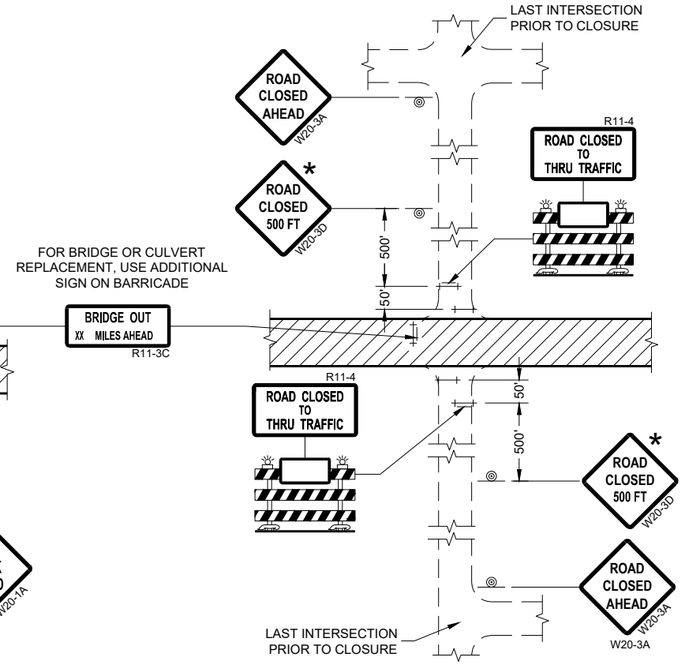
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* 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

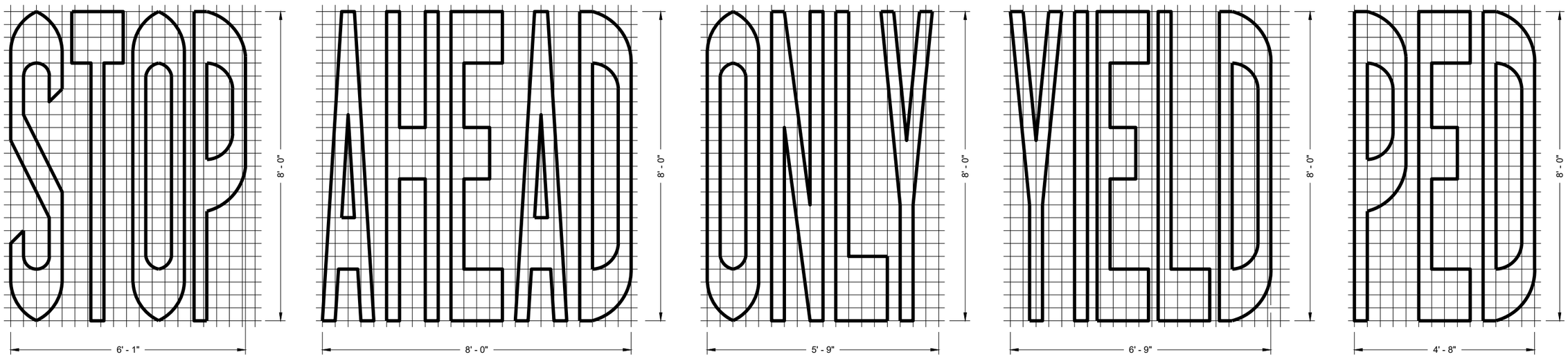
APPROVED
July 2018
DATE

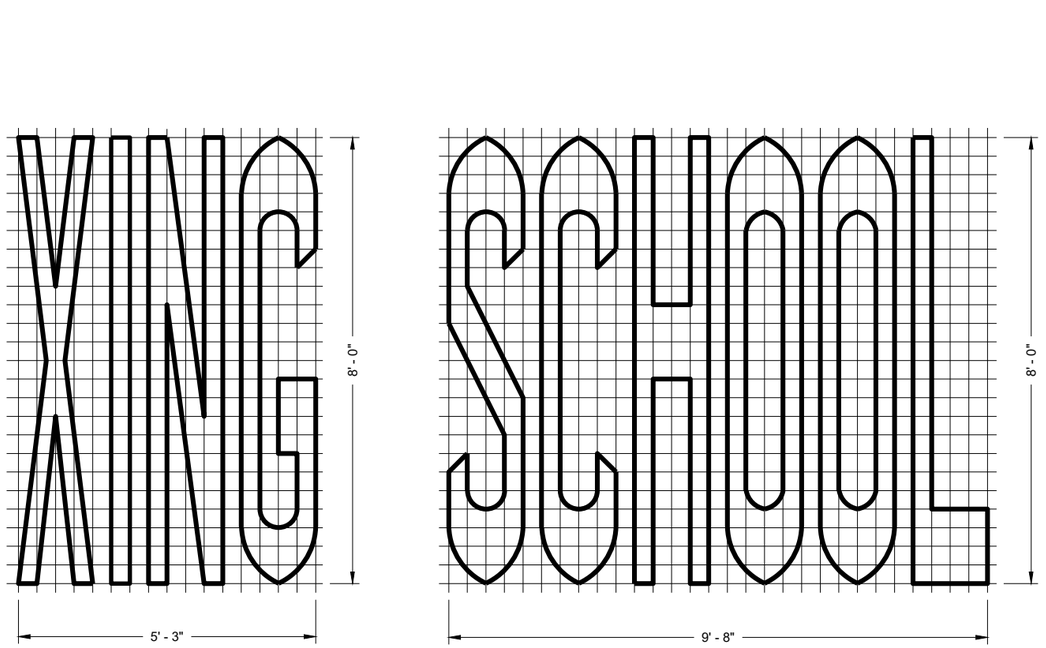
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

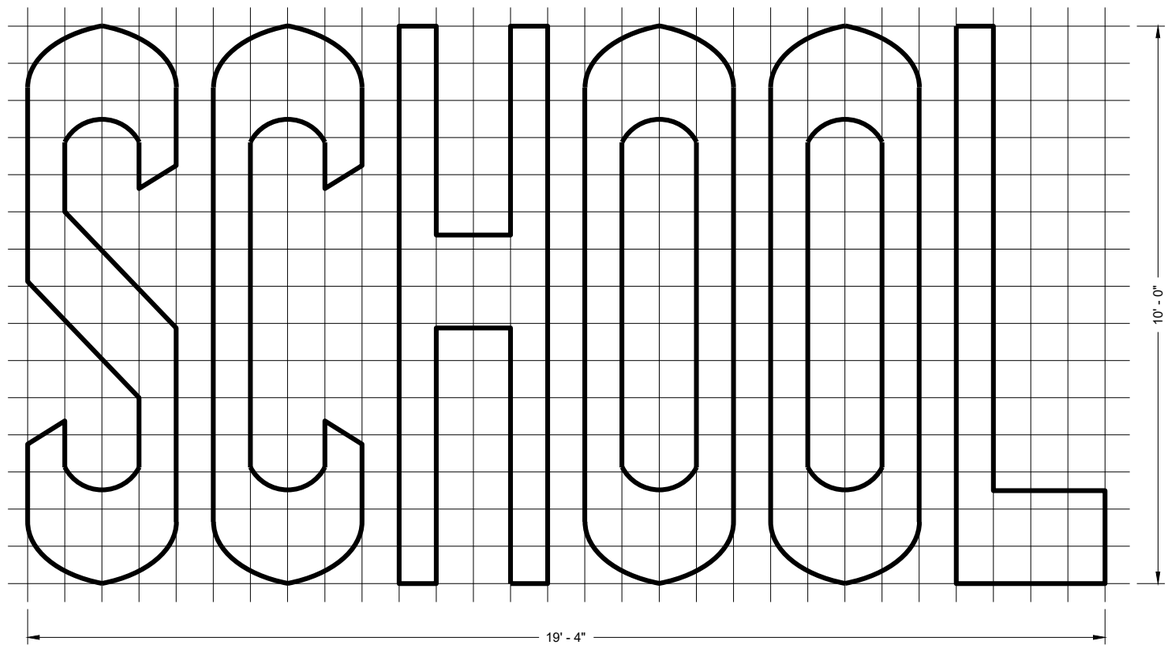
6

SDD 15C03 - 05





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

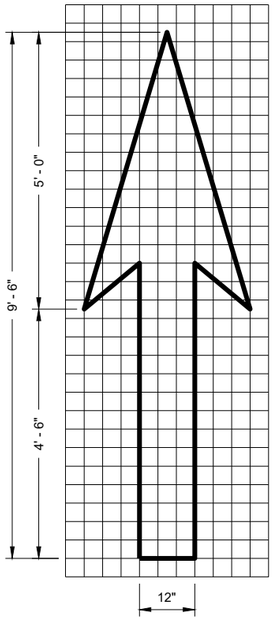
6

SDD 15C07 - 15b

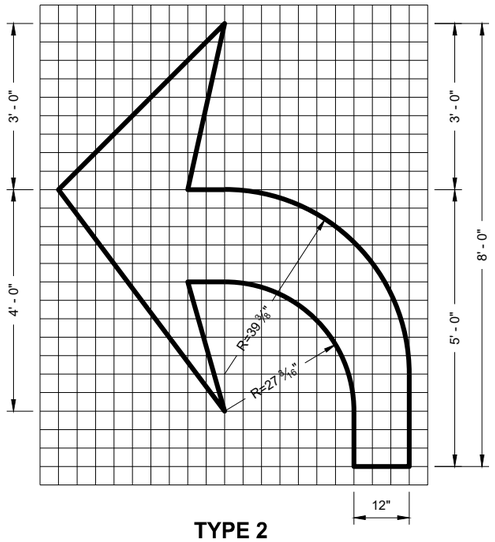
SDD 15C07 - 15b

GENERAL NOTES

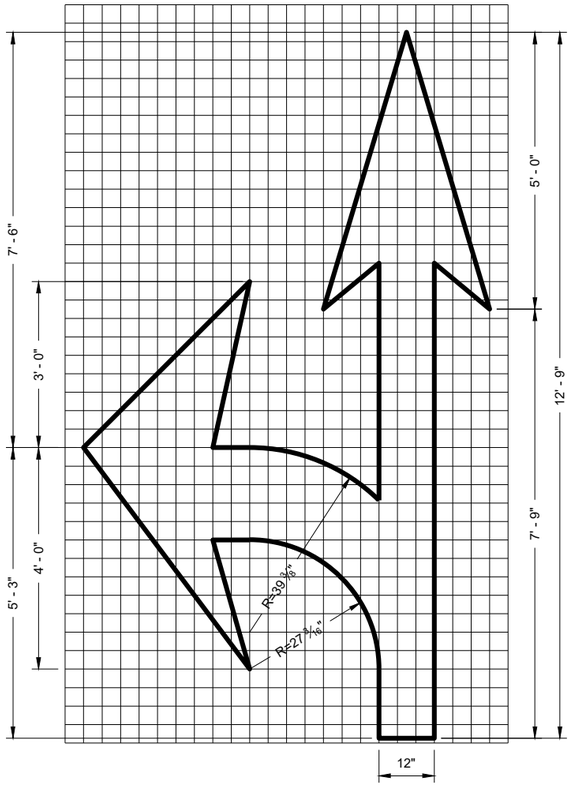
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



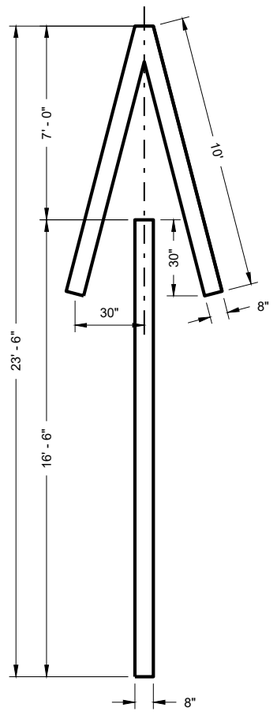
TYPE 1



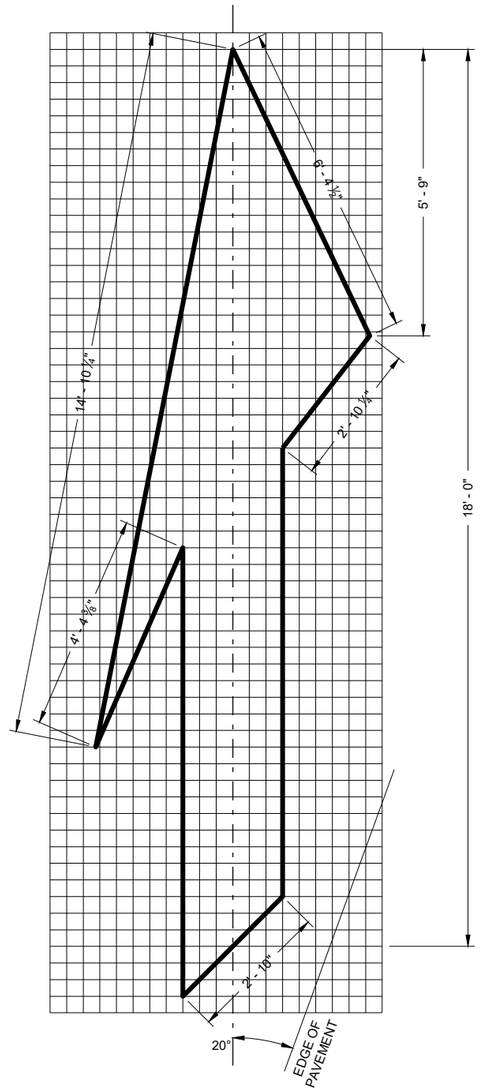
TYPE 2



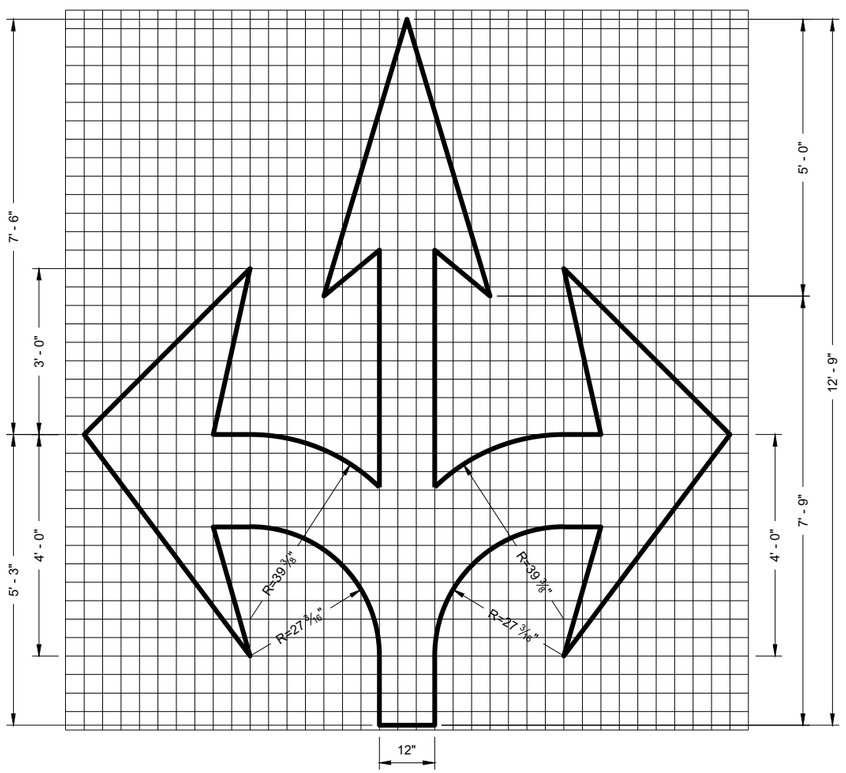
TYPE 3



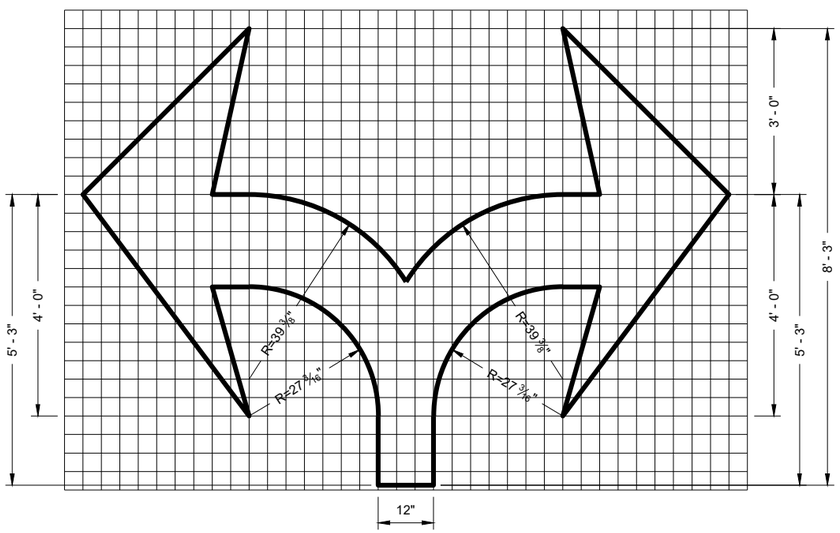
TYPE 4



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 MARKING ENGINEER

FHWA

6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

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.

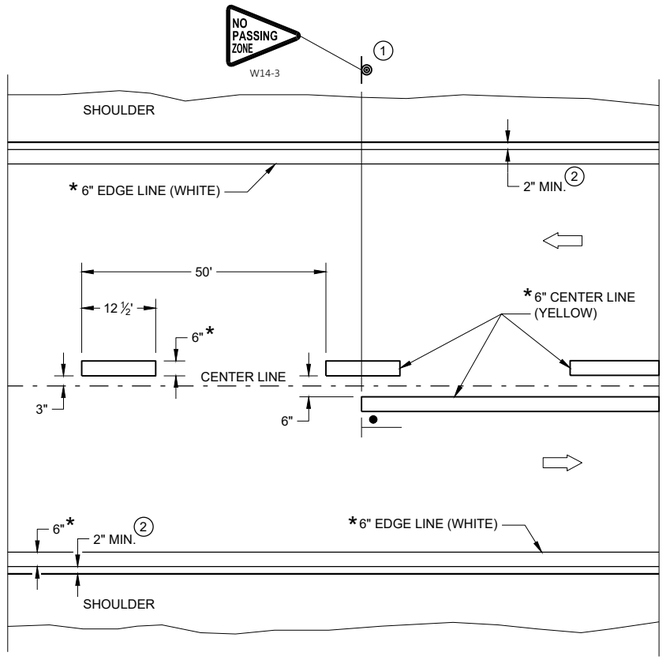
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

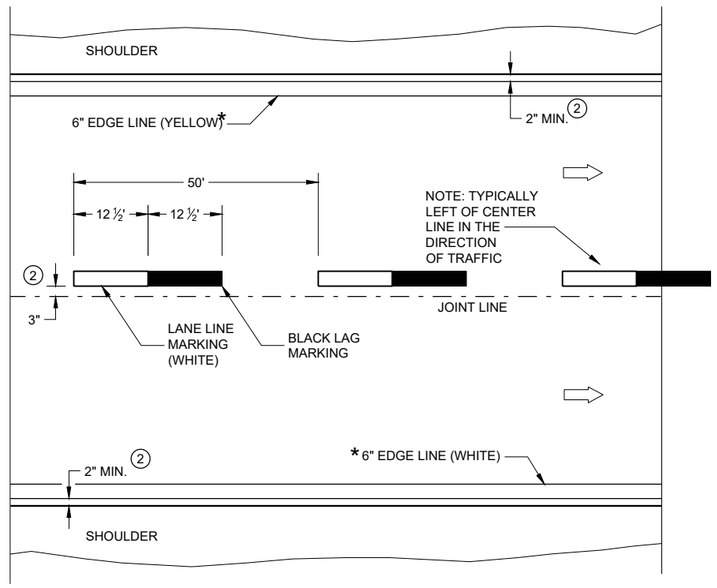
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

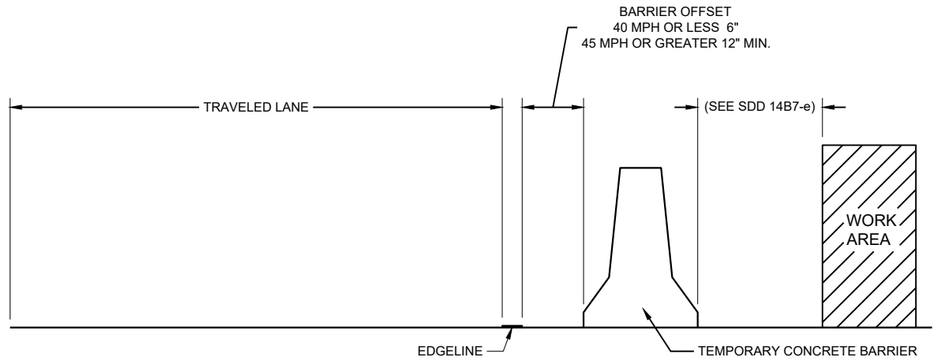
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

FHWA

6

SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

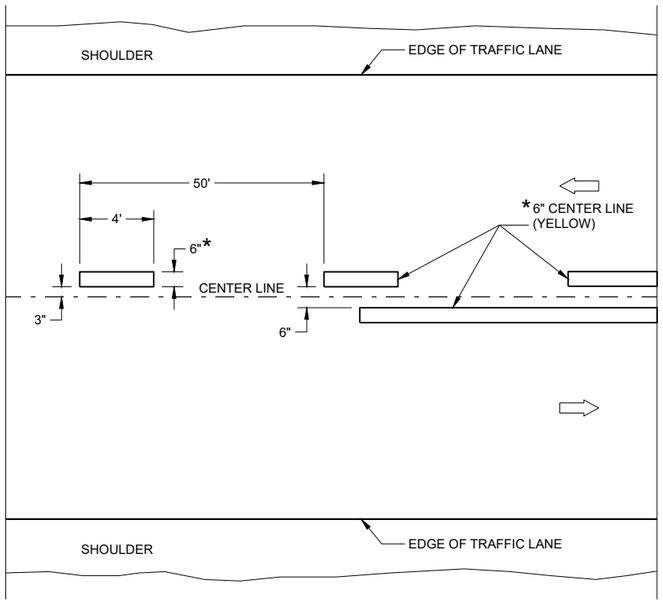
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

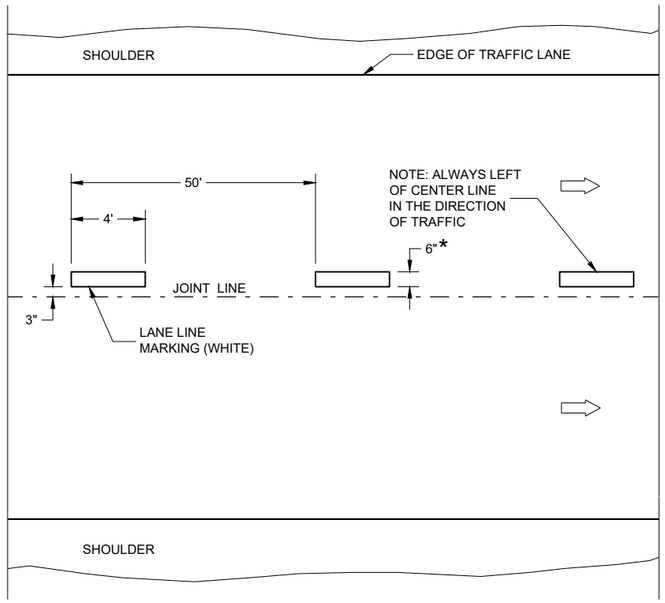
LEGEND

DIRECTION OF TRAFFIC

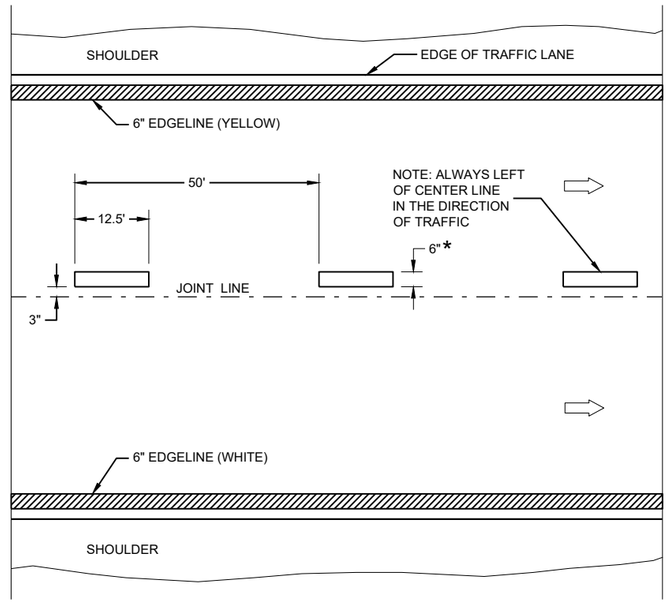
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Jeannie Silver STATEWIDE SIGNING AND M ENGINEER

FHWA

6

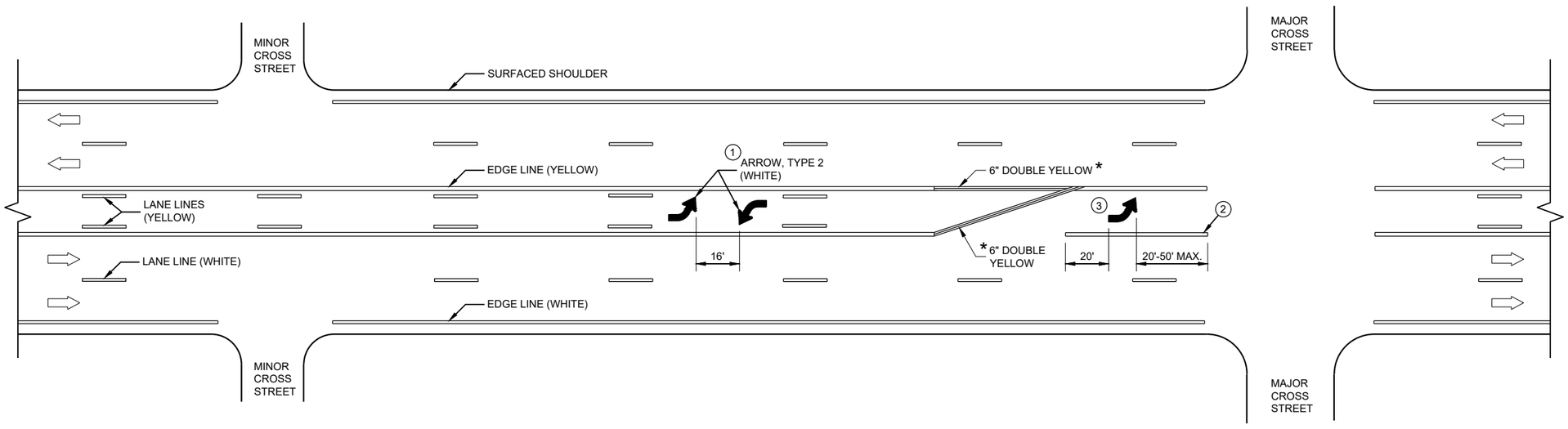
SDD 15C08-23b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



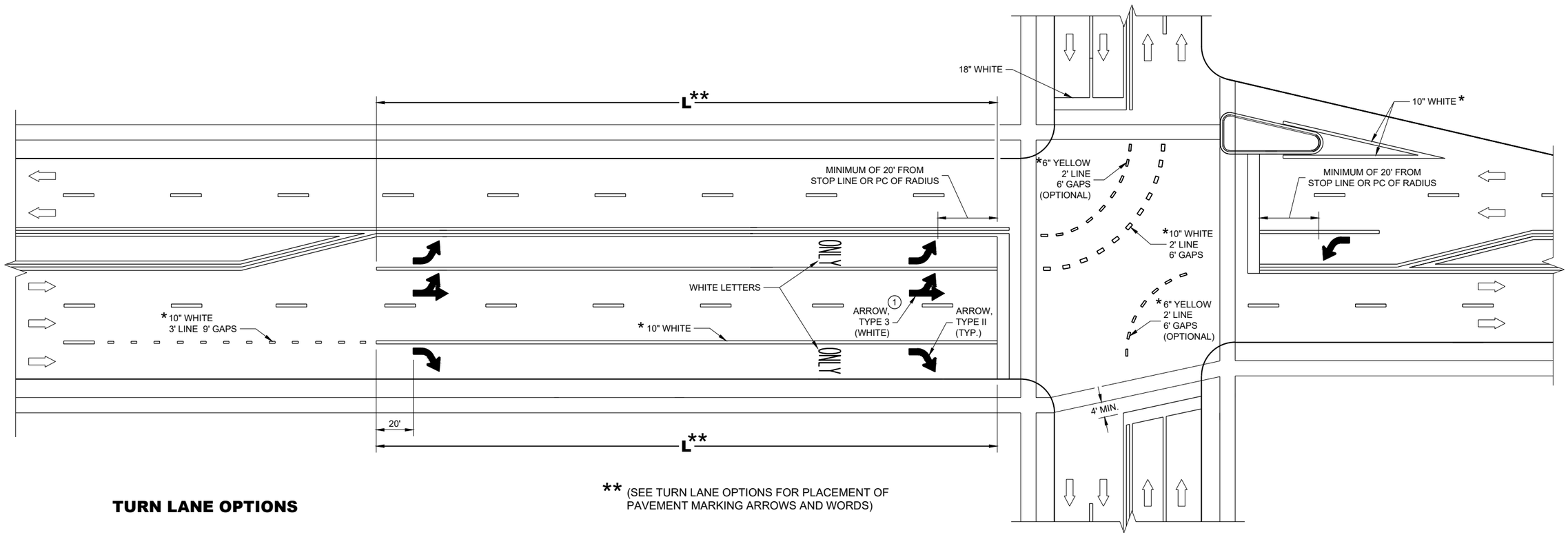
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA· 276

SDD 15C08-23c

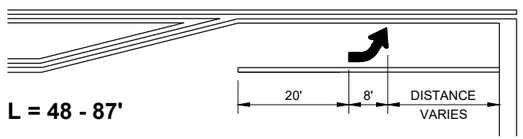
6



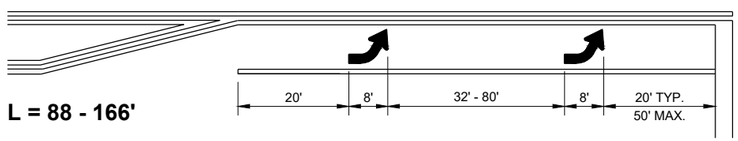
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

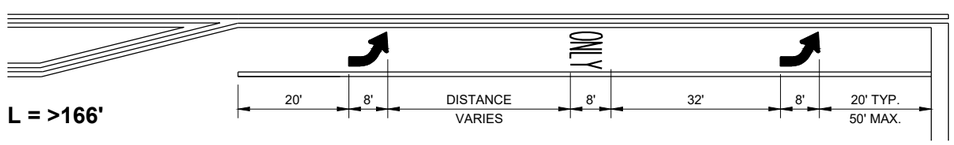
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 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

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

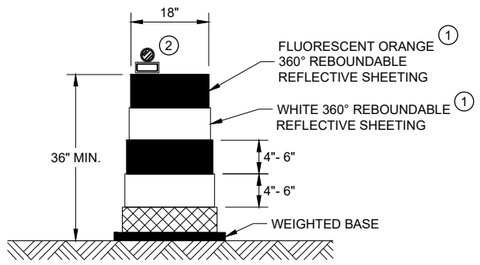
6

SDD 15C08-23d

SDD 15C08-23d

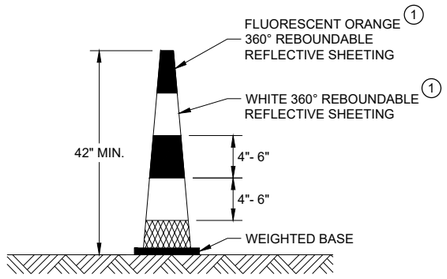
GENERAL NOTES

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

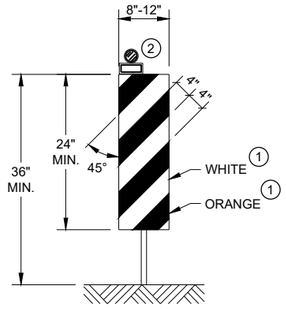
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

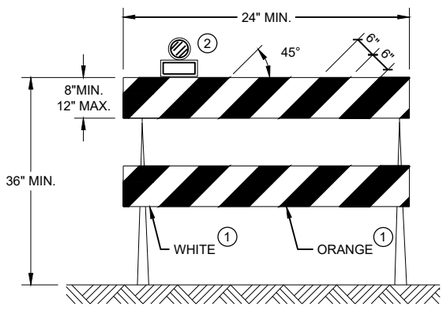
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



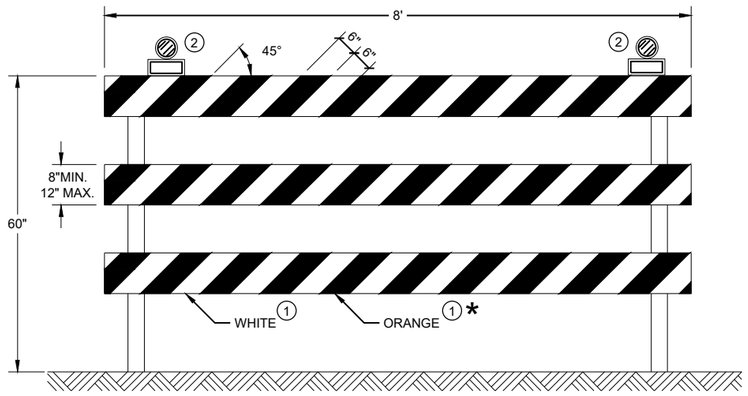
VERTICAL PANEL

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

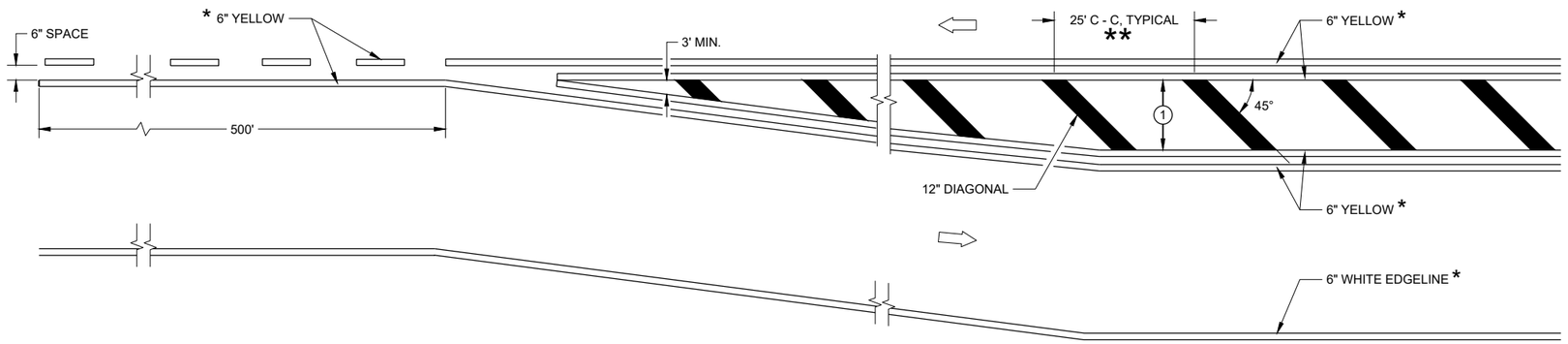
APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 10b



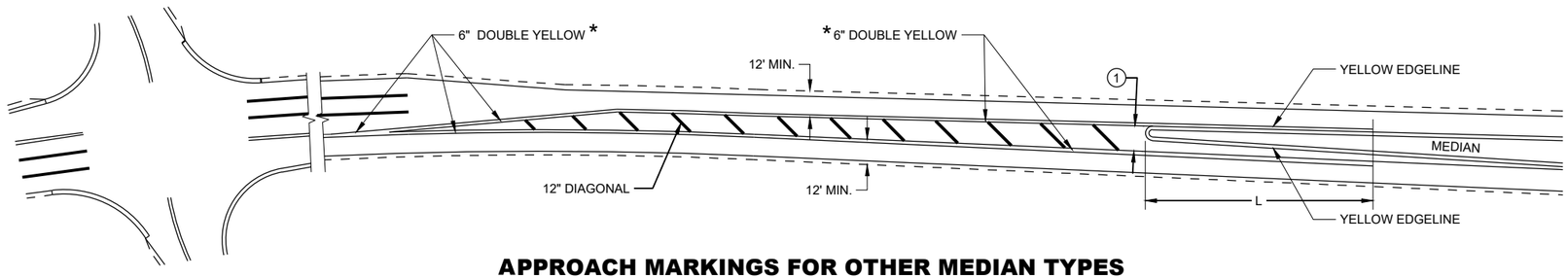
MEDIAN ISLAND DETAIL

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.

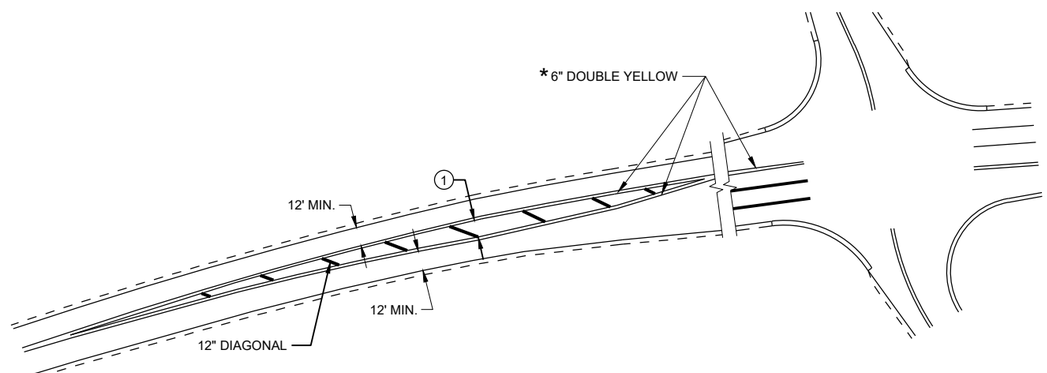
⇨ DIRECTION OF TRAVEL

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES

SPEED LIMIT	L
<35 MPH	5'
35> MPH	50'



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

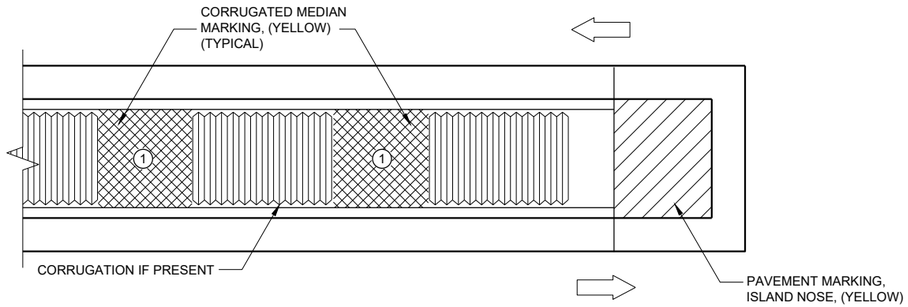
APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MAF ENGINEER
FHWA

6

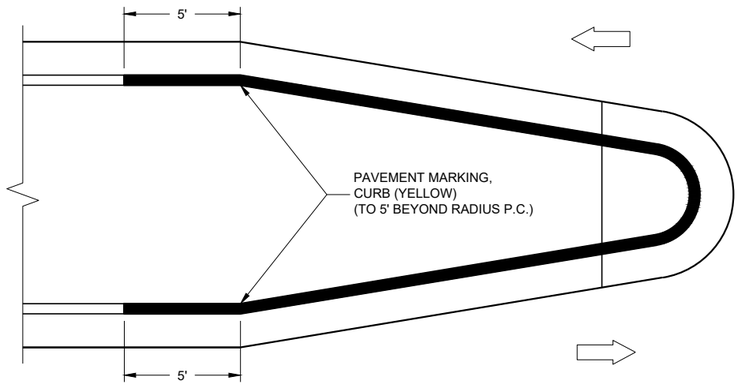
SDD 15C18-08a

6

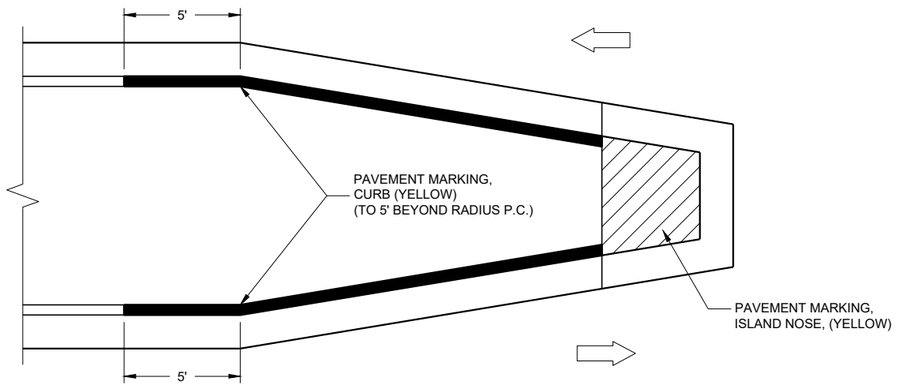
SDD 15C18-08a



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

May 2023
DATE

/S/ Jeannie Silver
STATE SIGNING AND MAR
ENGINEER

FHWA

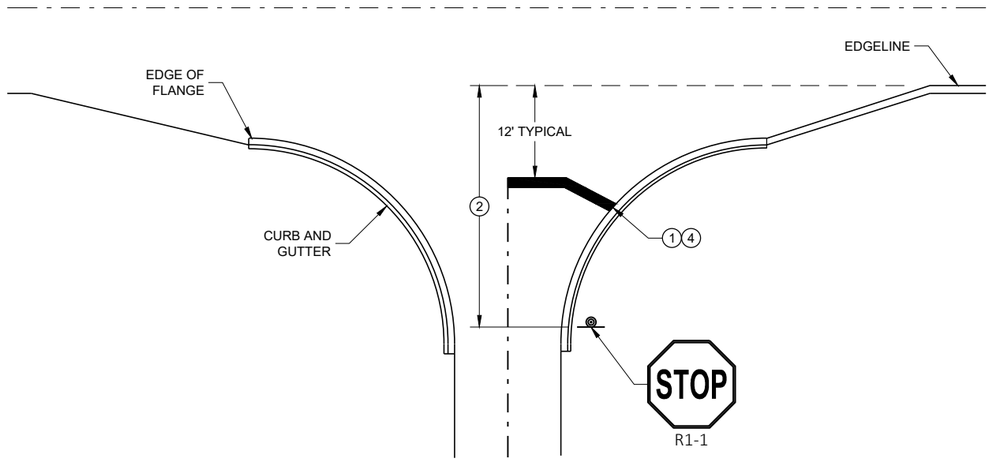
6

SDD 15C18-08b

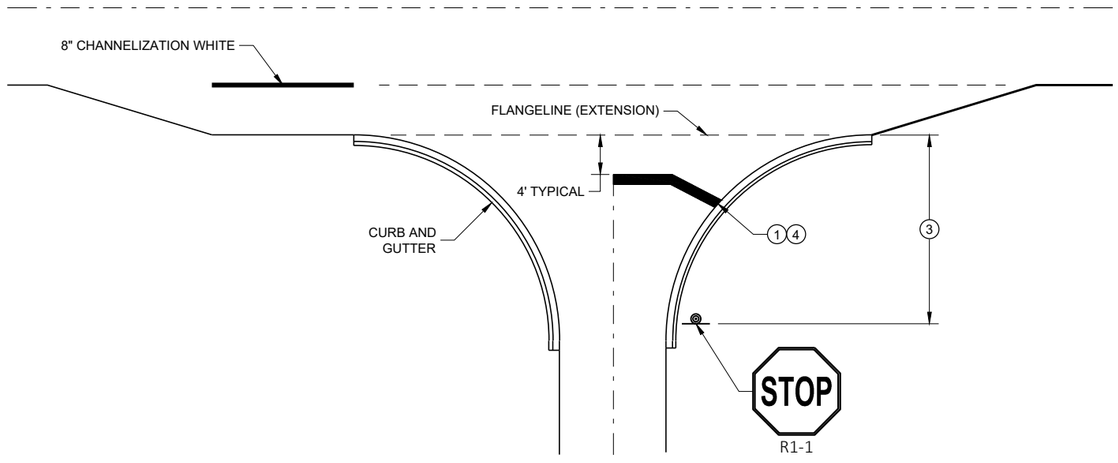
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

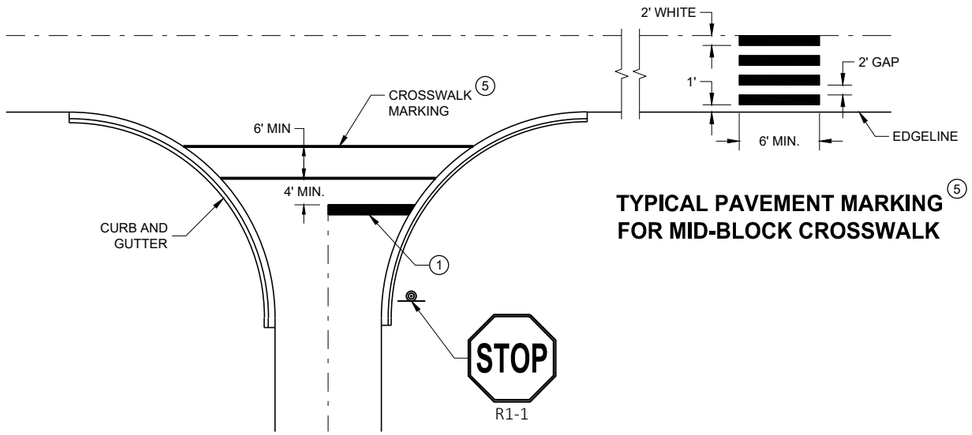
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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

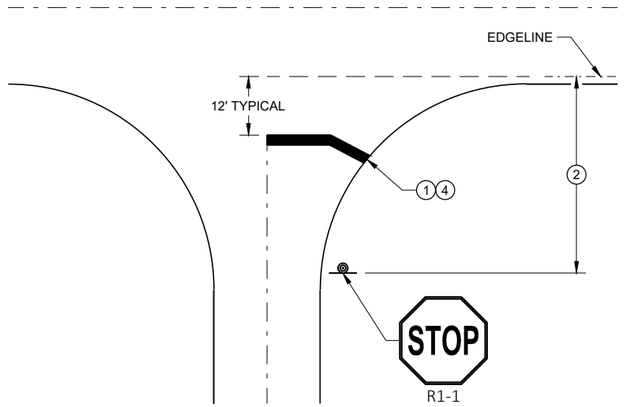


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



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

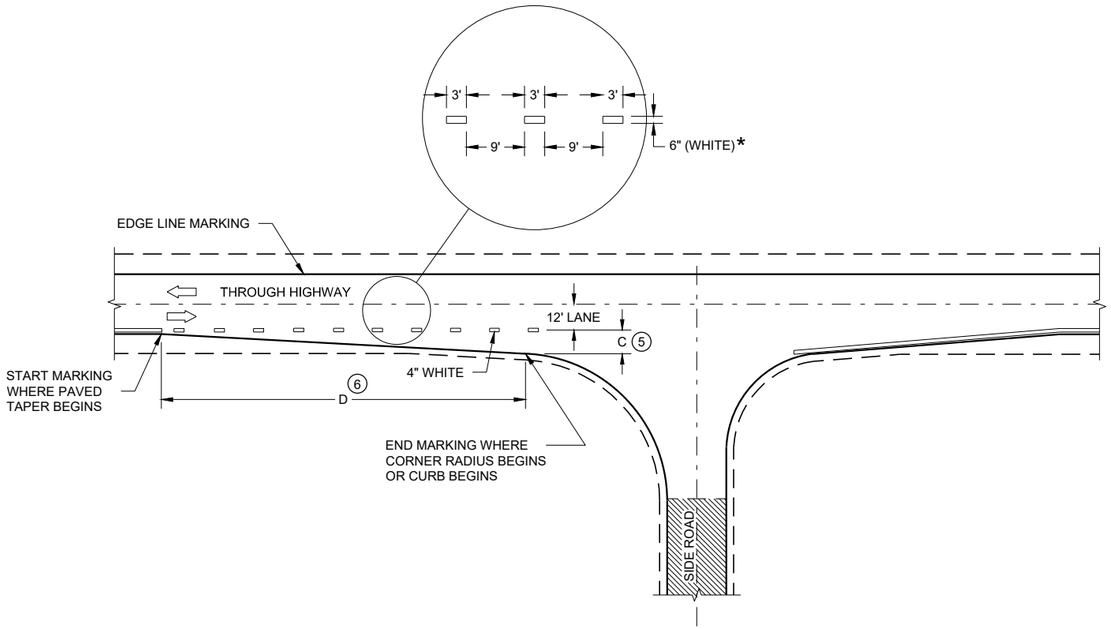
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6
SDD 15C33 - 04



MINOR INTERSECTION

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

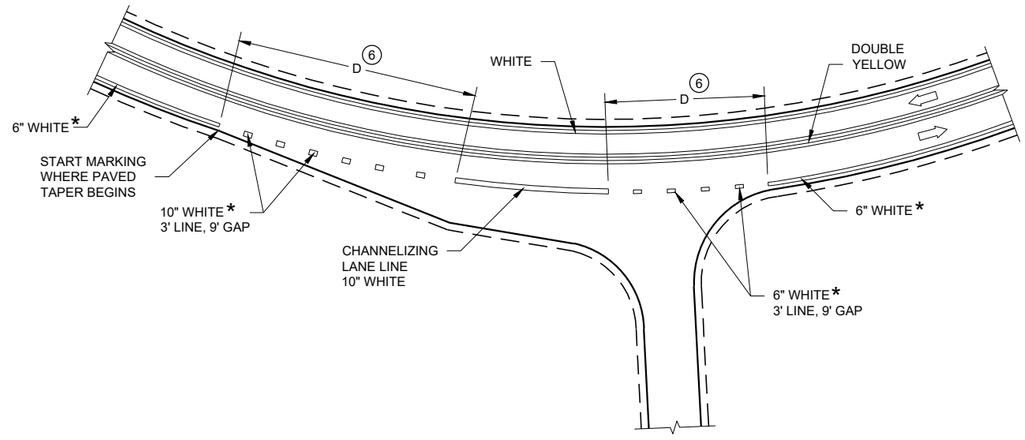
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

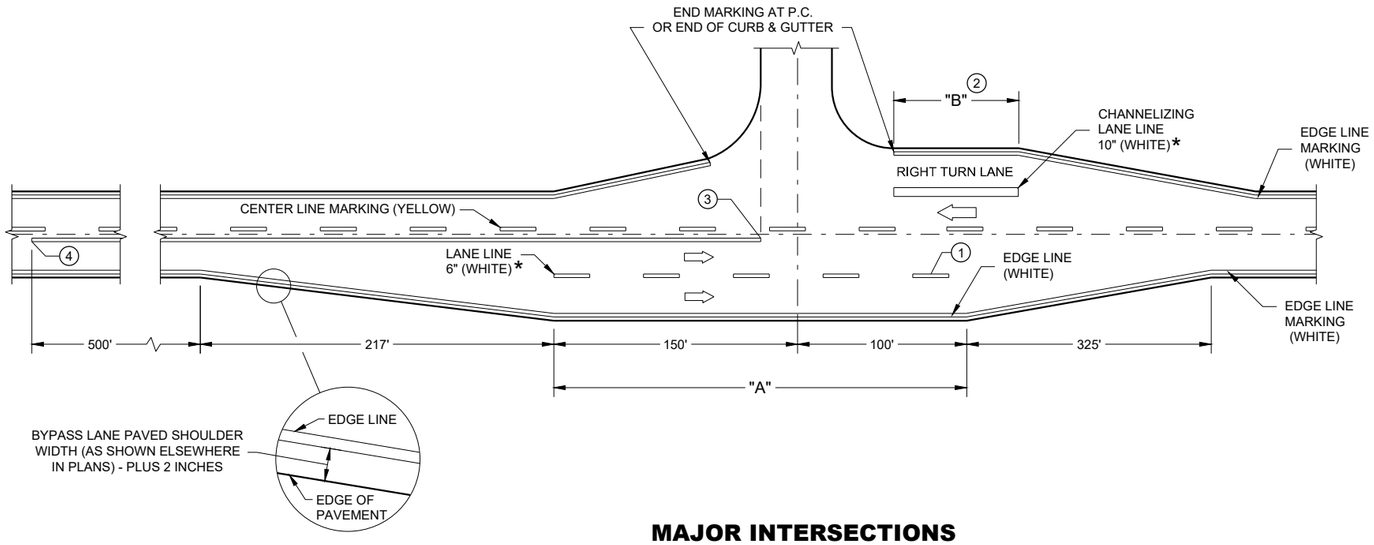
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

GENERAL NOTES

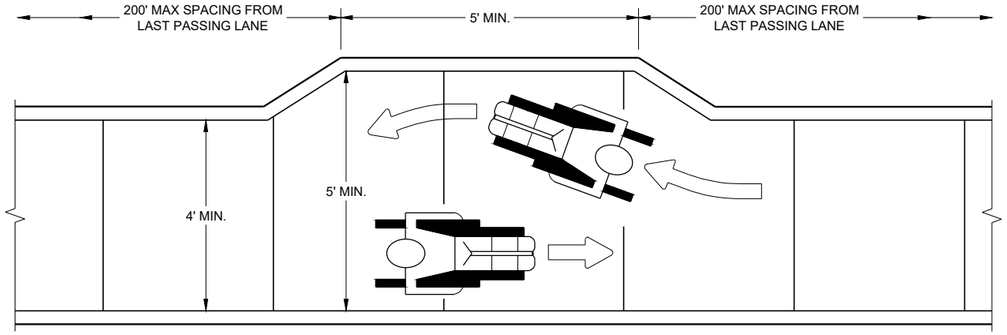
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

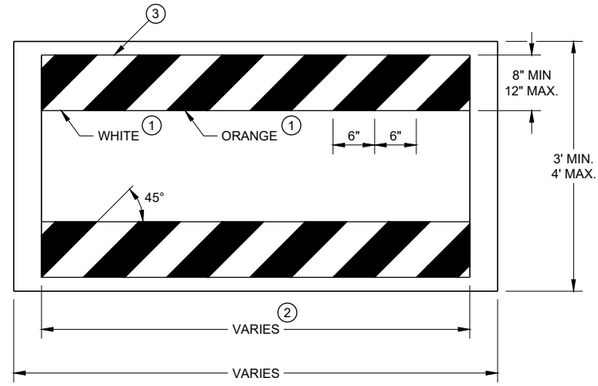
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

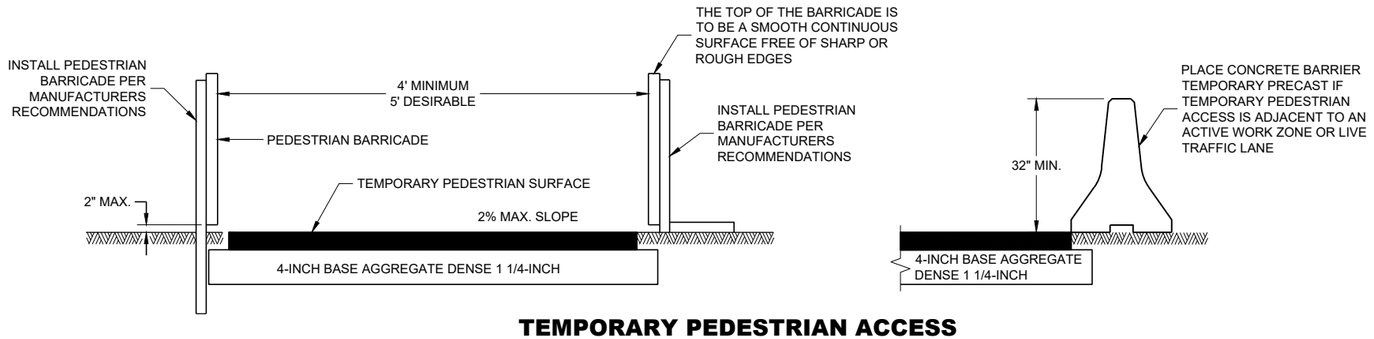
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*



TEMPORARY PEDESTRIAN ACCESS

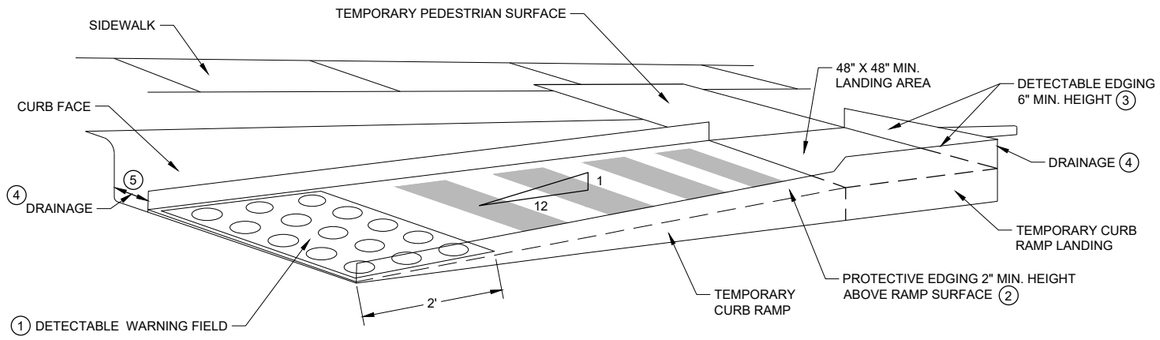
6

6

SDD 15D30 - 09a

SDD 15D30 - 09a

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



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.

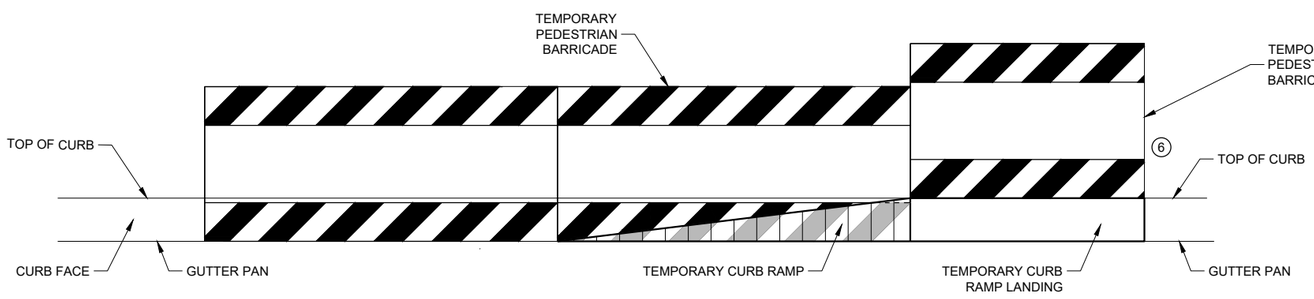
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

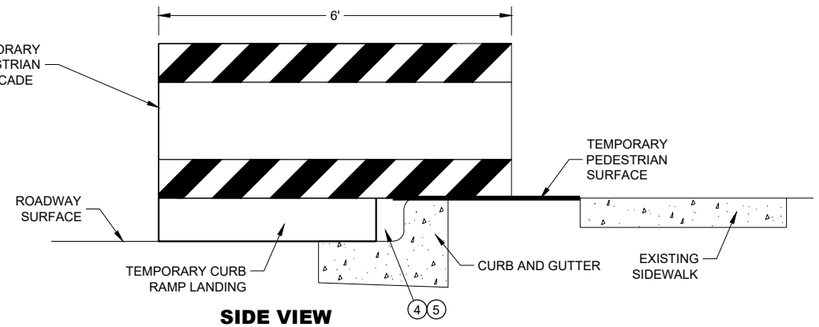
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(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

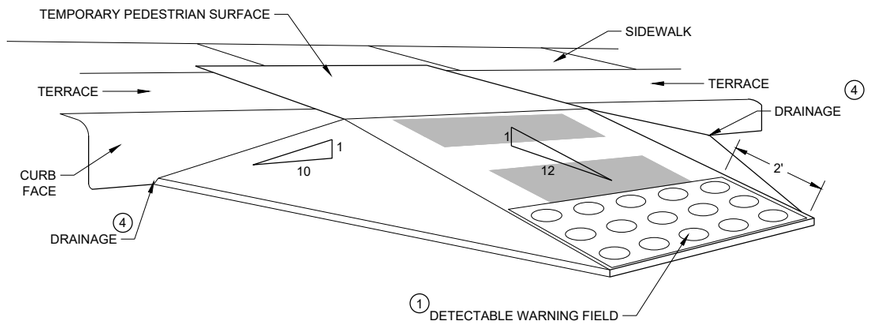
TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

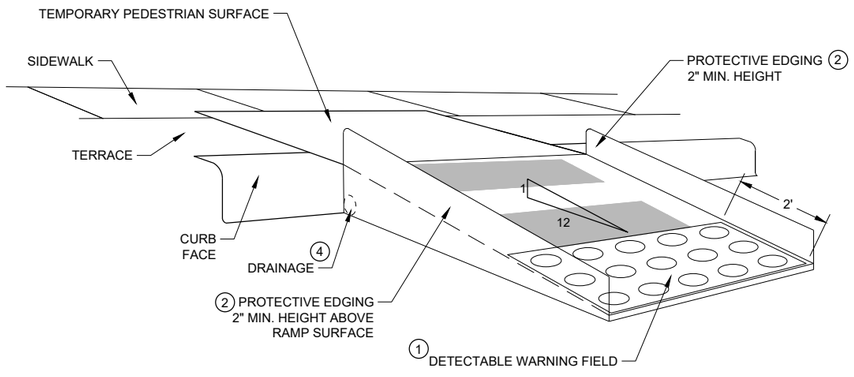
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 09b



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.

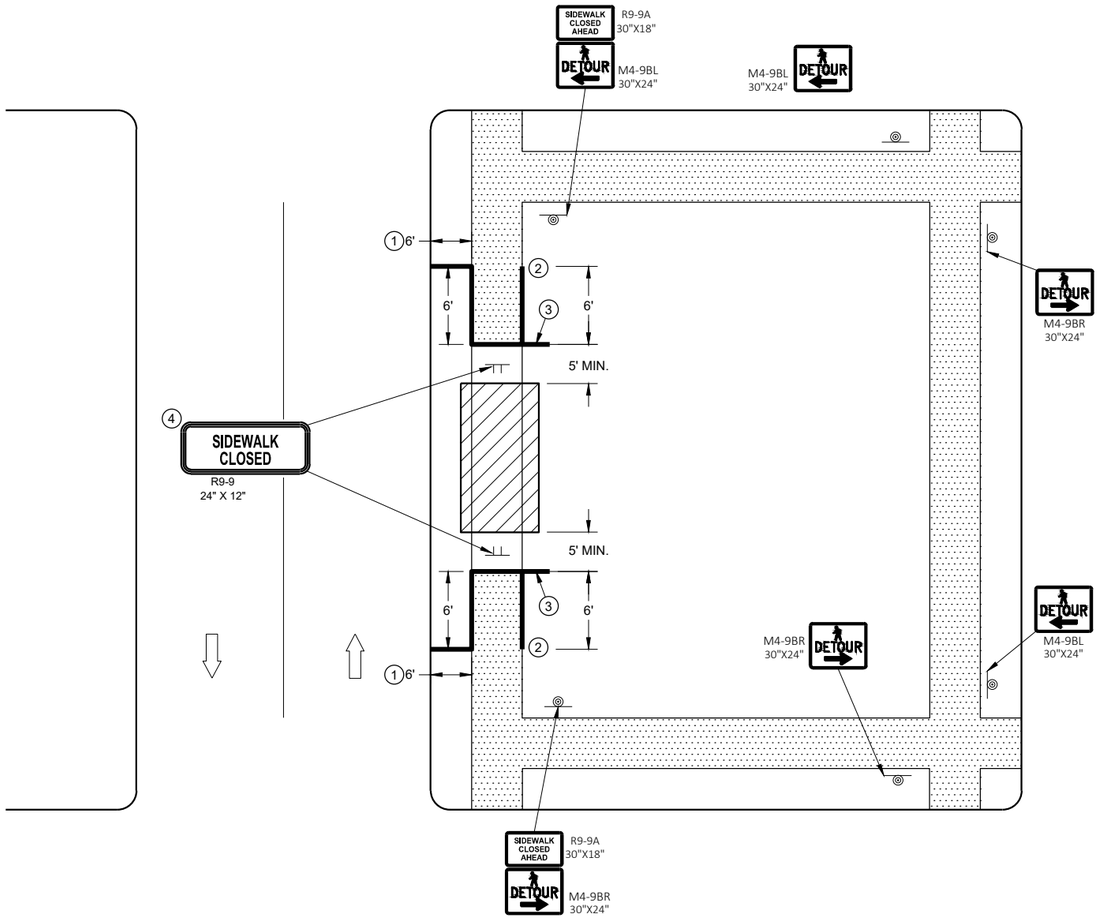
6

SDD 15D30 - 09c

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

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.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 09f

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

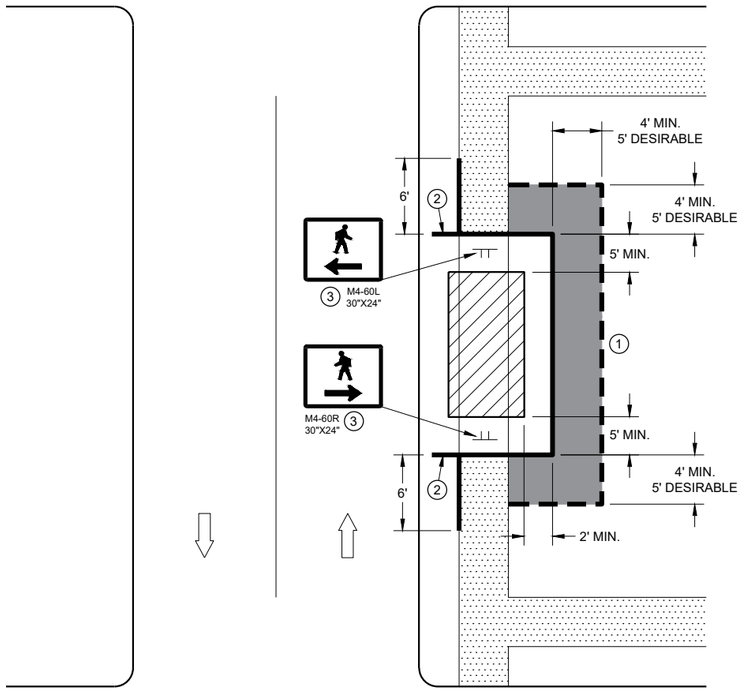
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

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 - 09g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD15D30 - 09g

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.

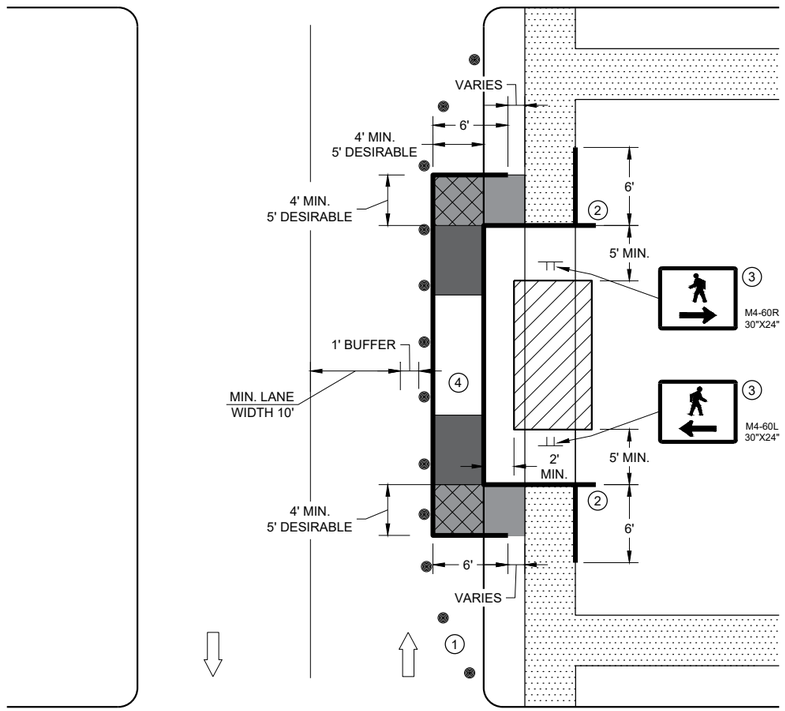
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(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.

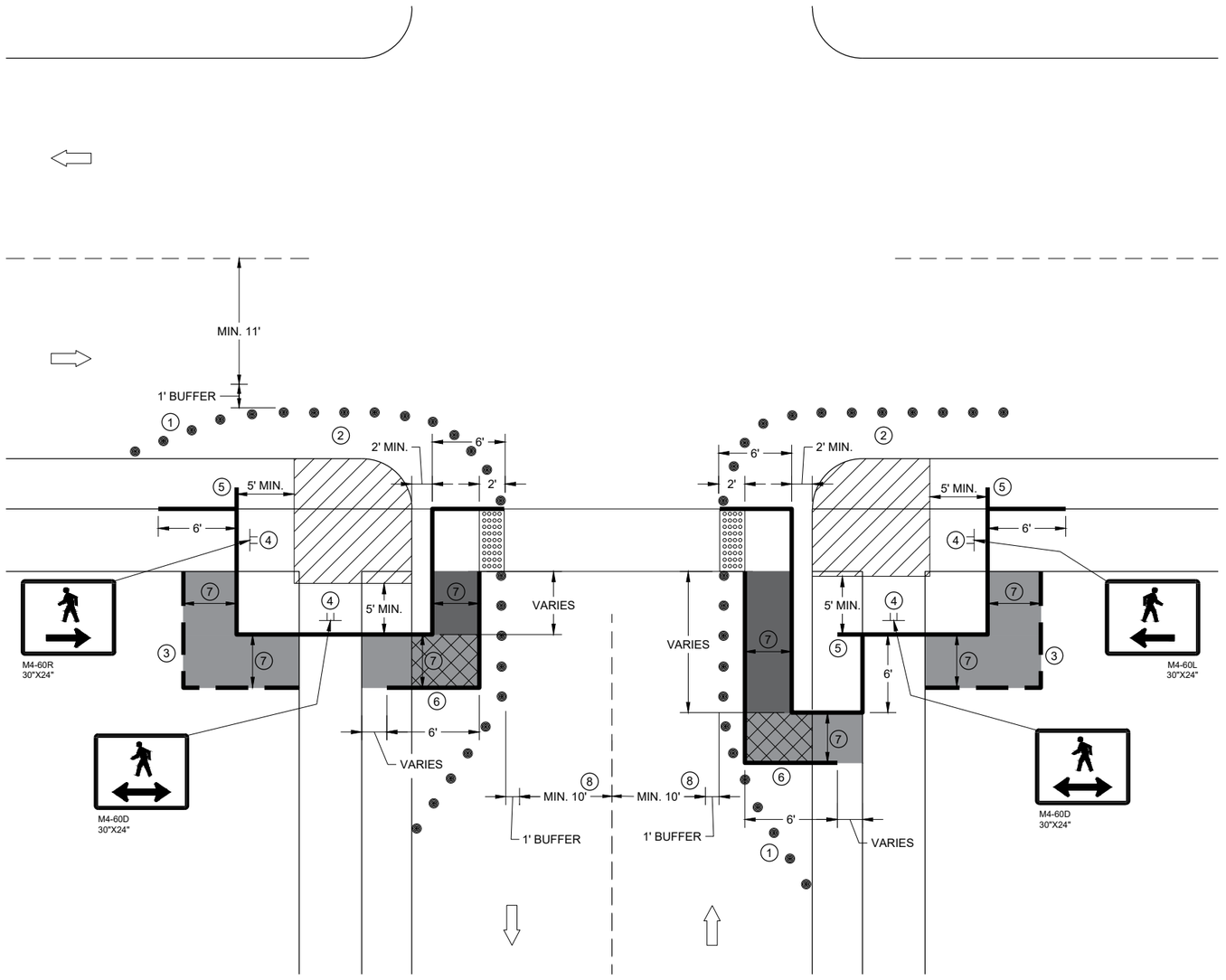


SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 09h



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.

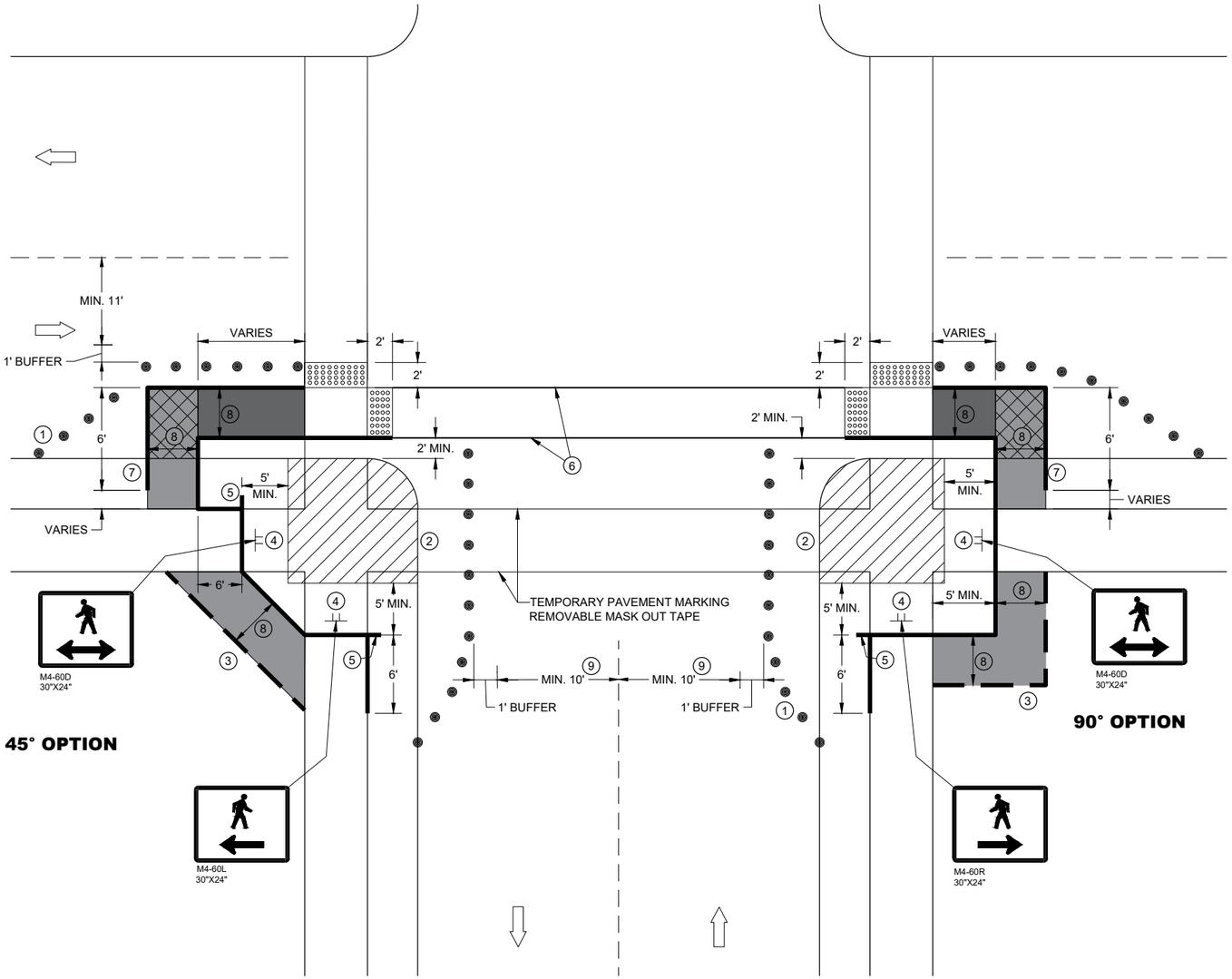
LEGEND

- 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

SDD 15D30 - 09i

6



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

LEGEND

SIGN ON PERMANENT SUPPORT

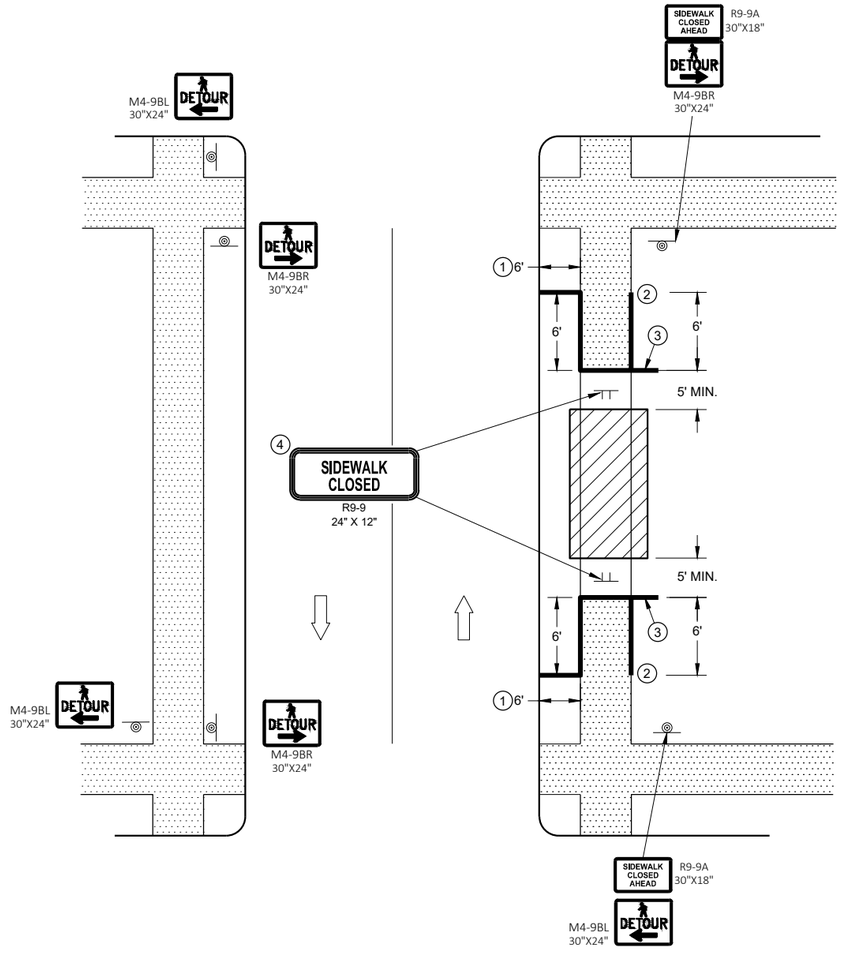
SIGN ON TEMPORARY SUPPORT

UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC



GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

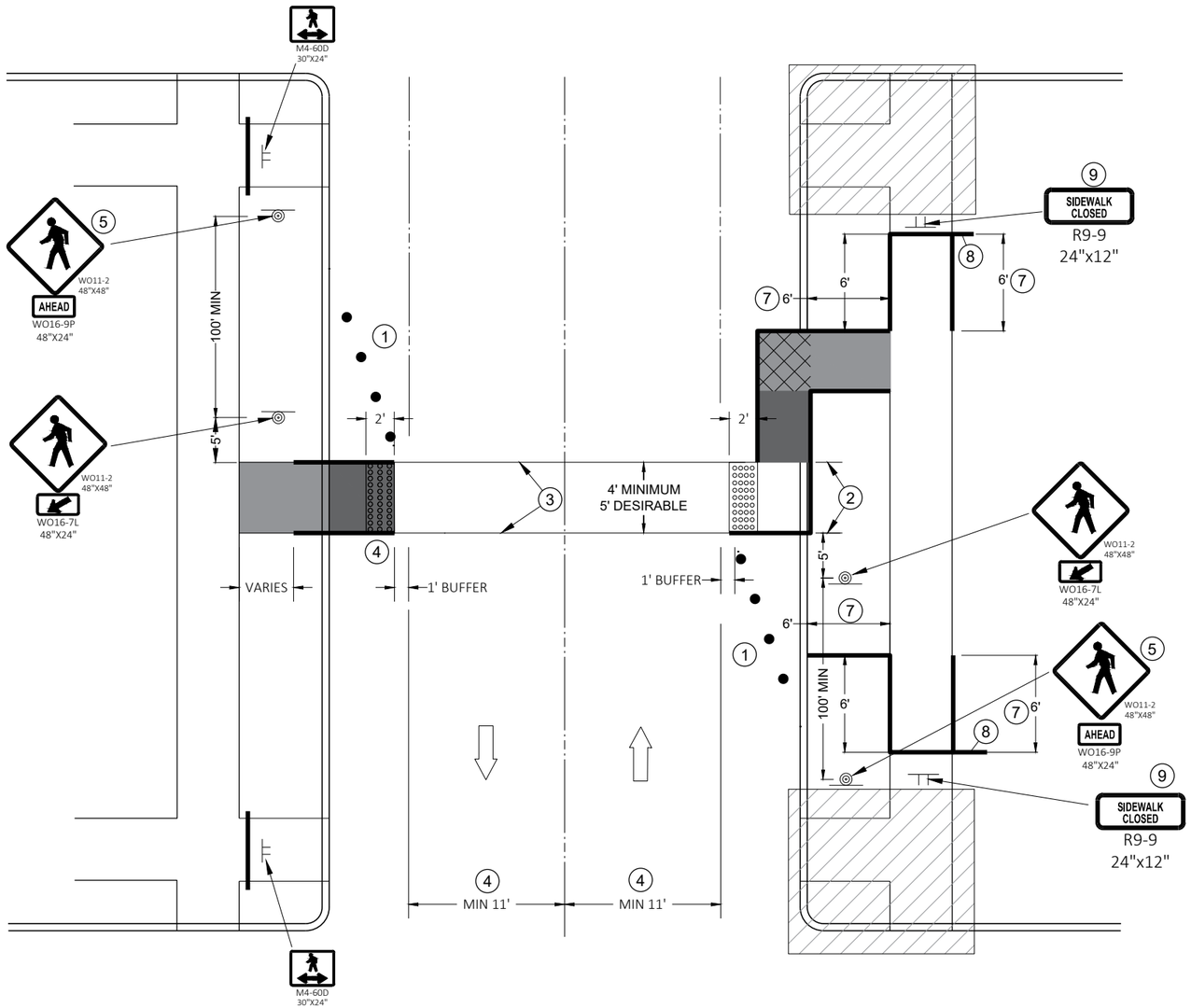
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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 CONFLICT 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.

SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES



TEMPORARY PEDESTRIAN CROSSING

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

(1) SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.

(2) 4 FEET MINIMUM, 5 FEET DESIRABLE.

(3) WHITE 6" TEMPORARY PAVEMENT MARKING.

(4) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMPS MAY NEED TO BE UTILIZED.

(5) IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.

(6) IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.

(7) 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.

(8) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.

(9) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

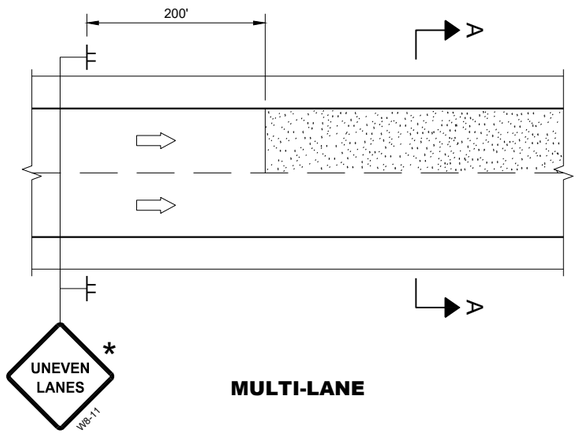
LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY CURB RAMP
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

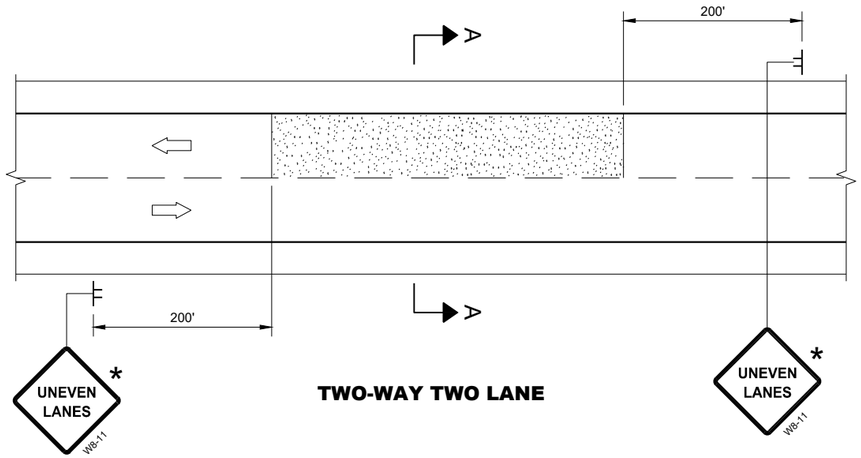
6

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

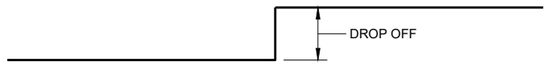
SDD 15D30 - 09L



MULTI-LANE

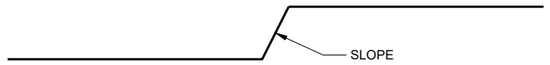


TWO-WAY TWO LANE

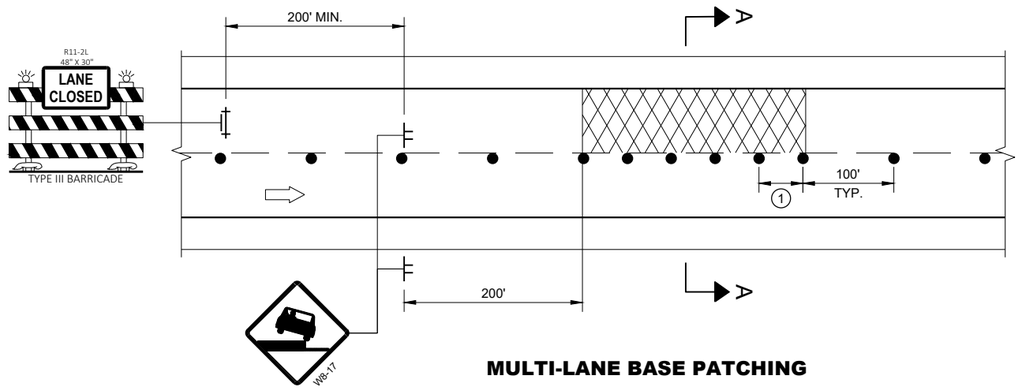


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

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.

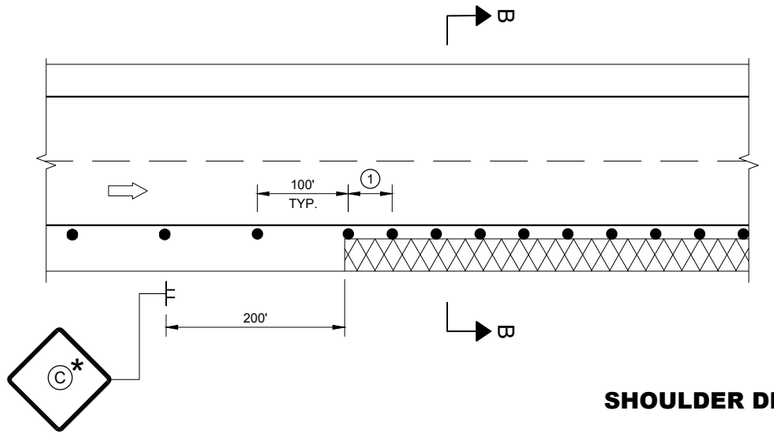
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

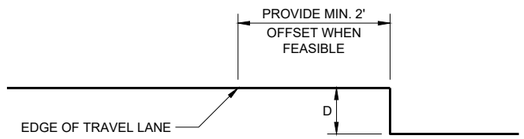
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

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



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

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

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

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.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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 INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

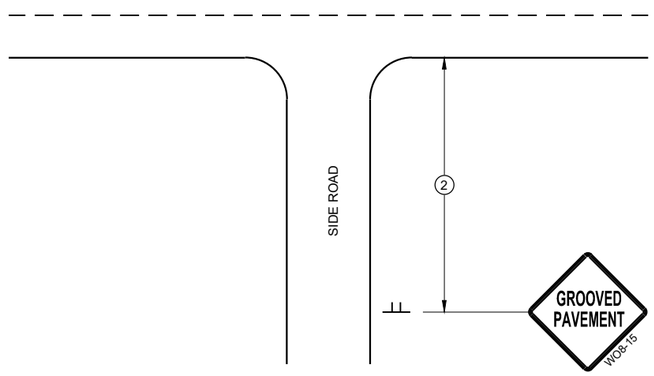
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

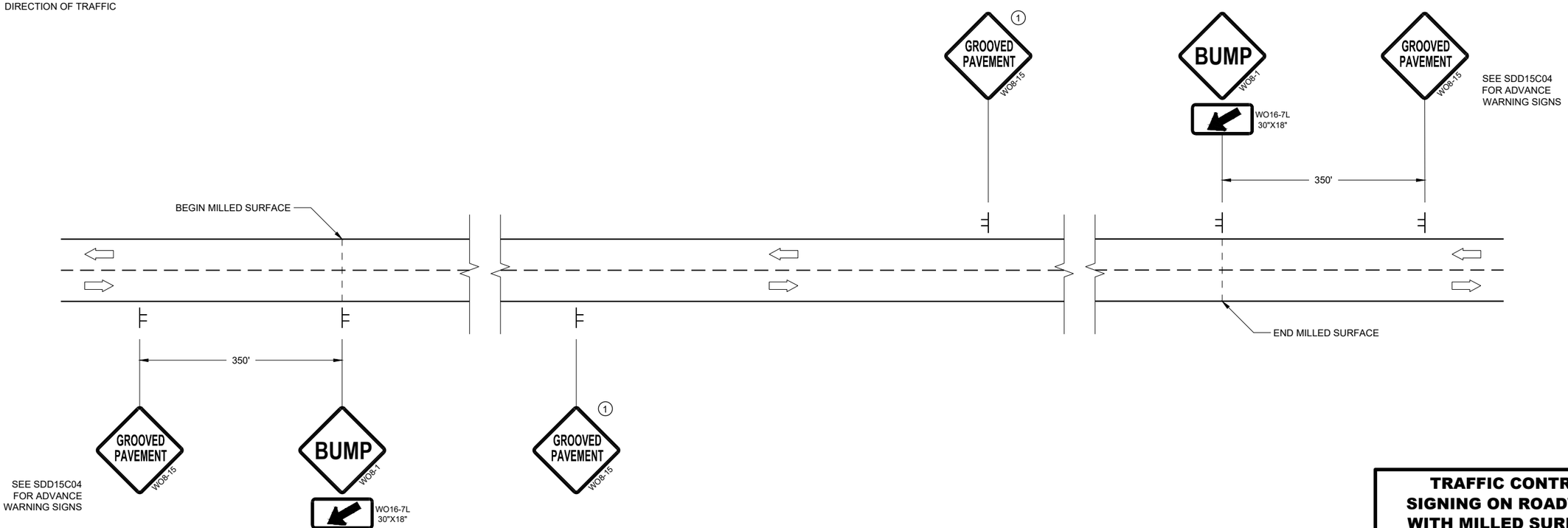
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D44 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

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.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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 INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

(1) PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

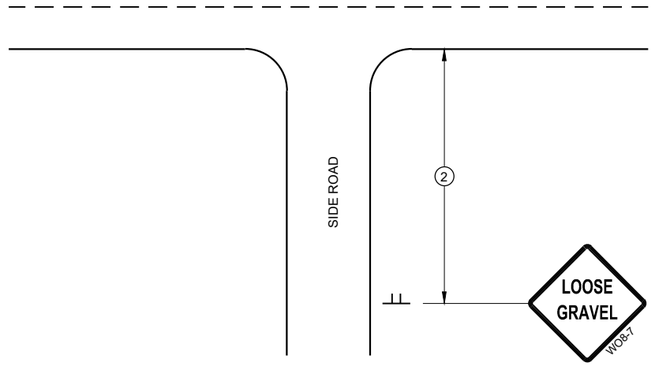
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

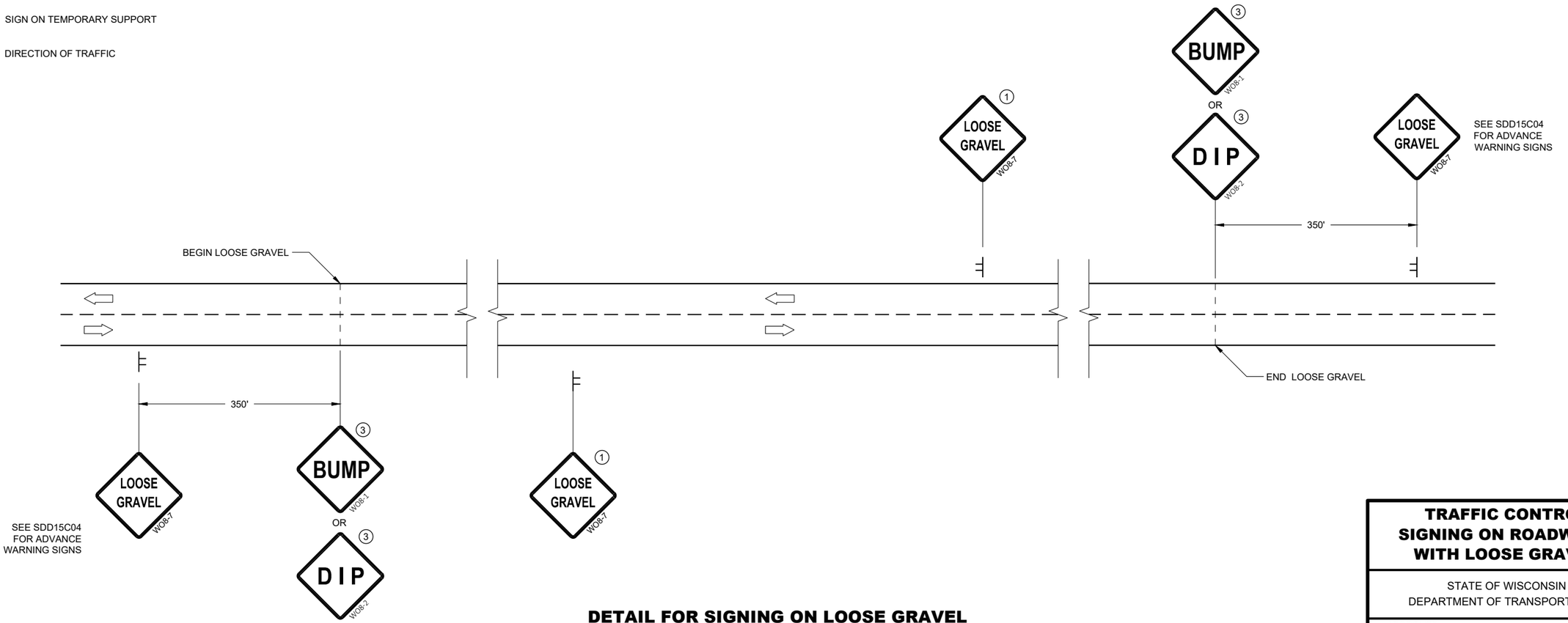
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

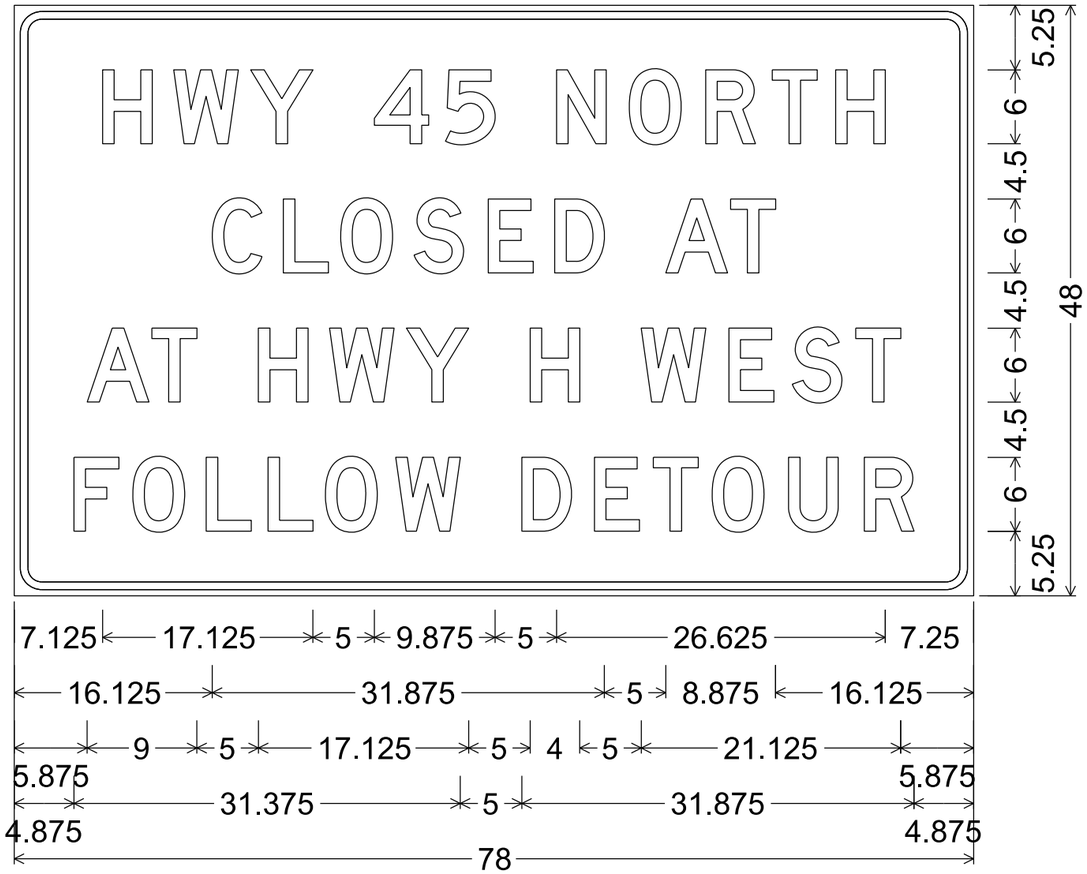
APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

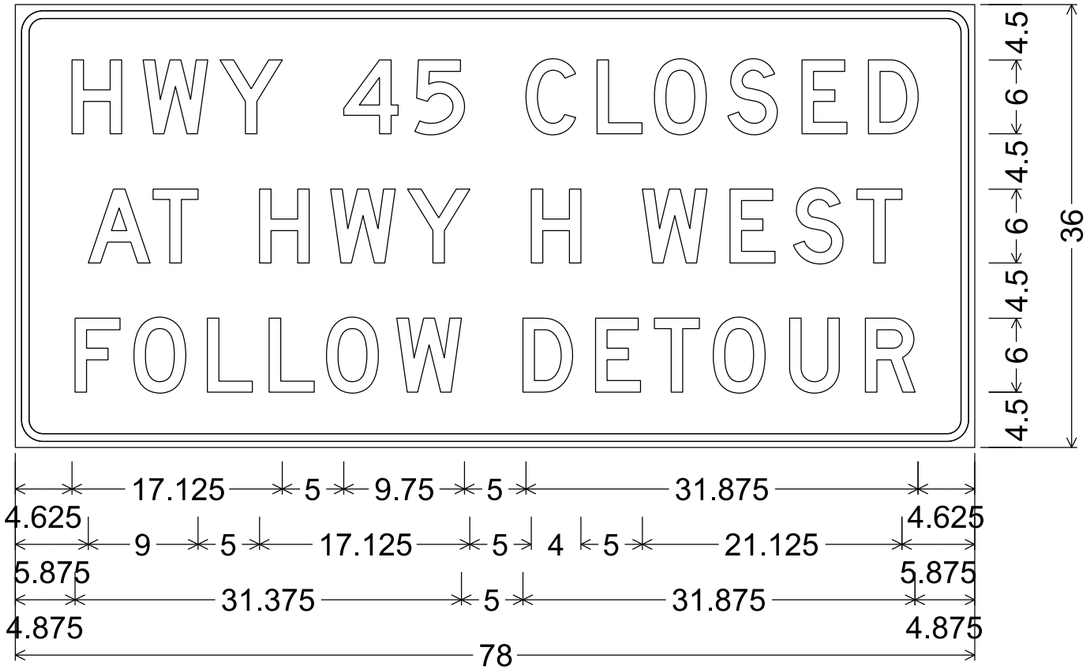
SDD 15D45 - 03



2.250" Radius, 0.625" Border, 0.500" Indent

NOTES

1. Fixed Message signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D

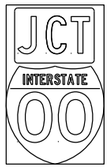


2.250" Radius, 0.625" Border, 0.500" Indent

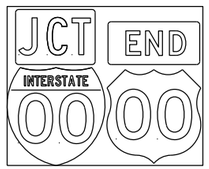
7

7

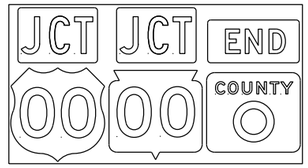
TYPICAL ASSEMBLIES



J1-1



J1-2



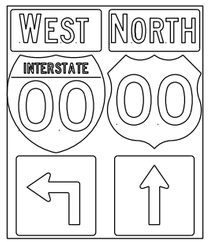
J1-3



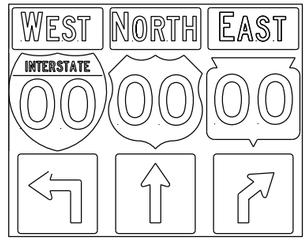
JR1-1



J2-1



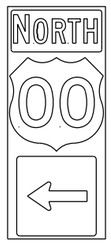
J2-2



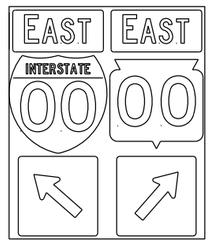
J2-3



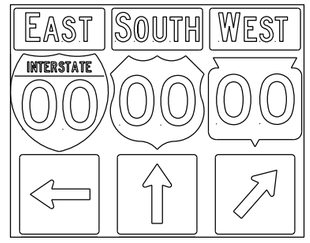
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



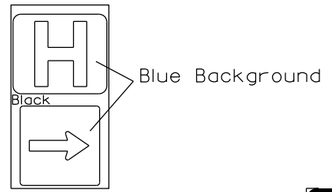
J3-1



J3-2



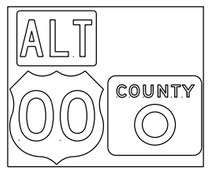
J3-3



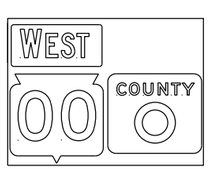
JH-1



J4-1



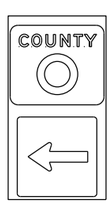
J4-2



J4-2



J12-1



J13-1



J32-1



J33-1



J22-1



J23-1



JR13-1

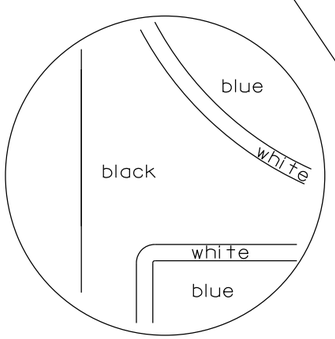


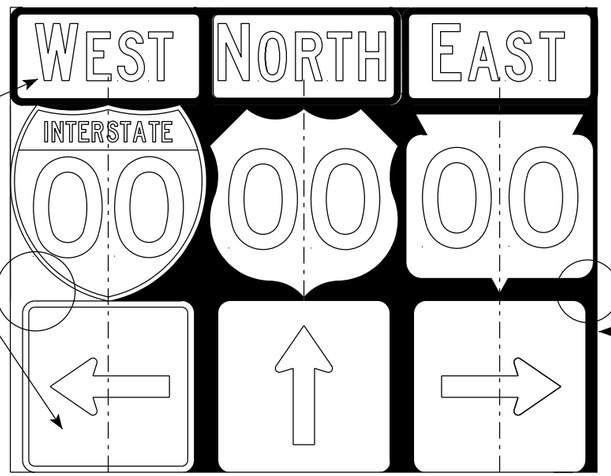
JR23-1

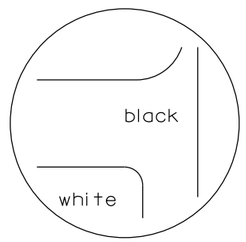


JR99-1

[blue background with interstate]







[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: 297 E

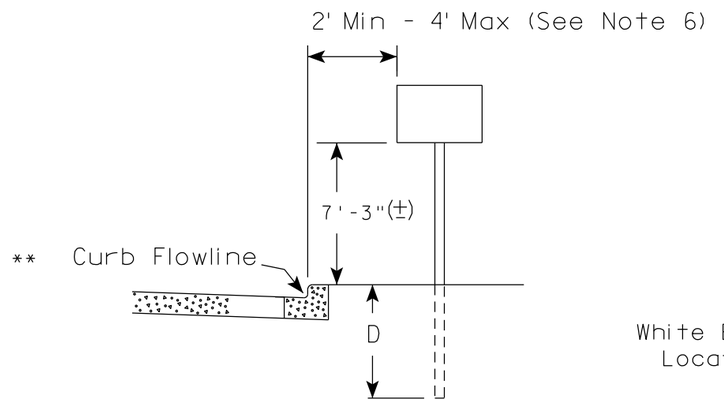
FILE NAME : C:\CAEfiles\Projects\tr_stdplate_A21S.dgn PLOT DATE : 18-MAR 2021 1:37 PLOT BY : mscj9h PLOT NAME :

WISDOT/CADDS SHEET 42

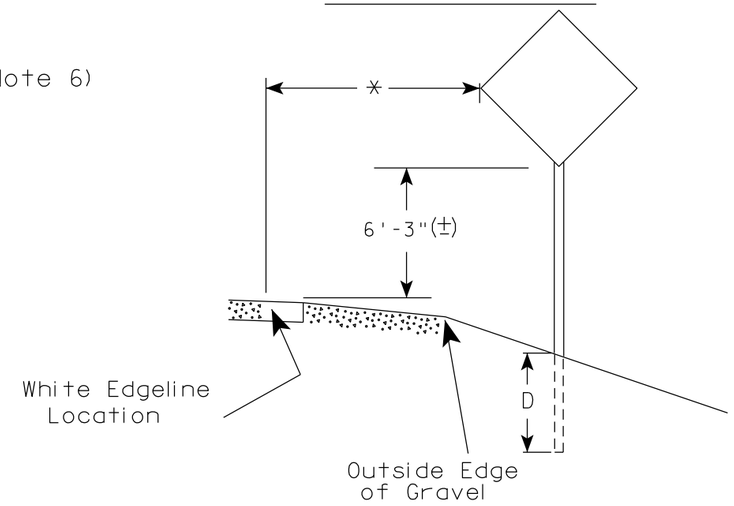
7

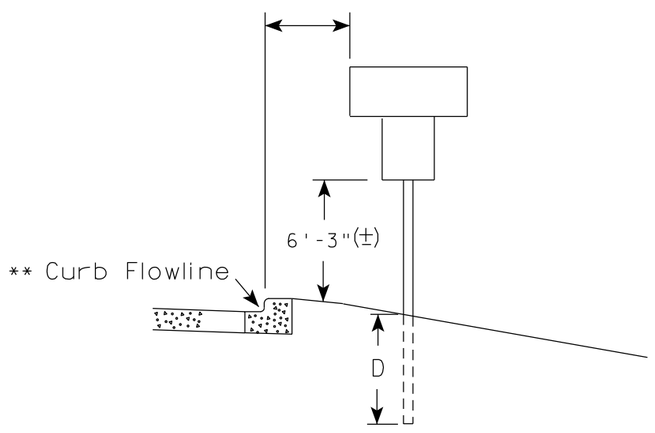
7

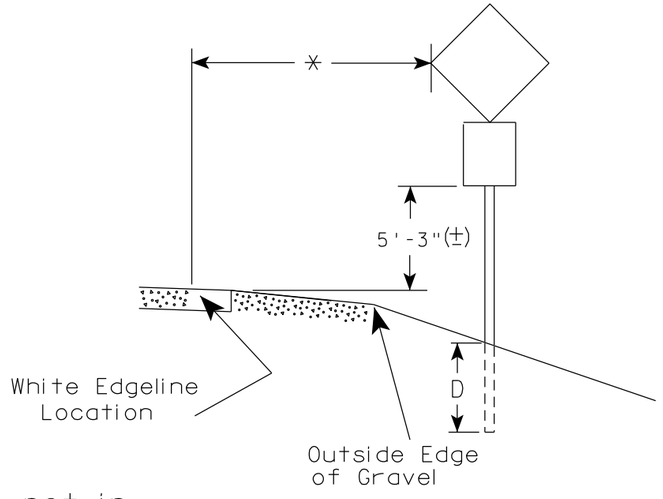
URBAN AREA



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.

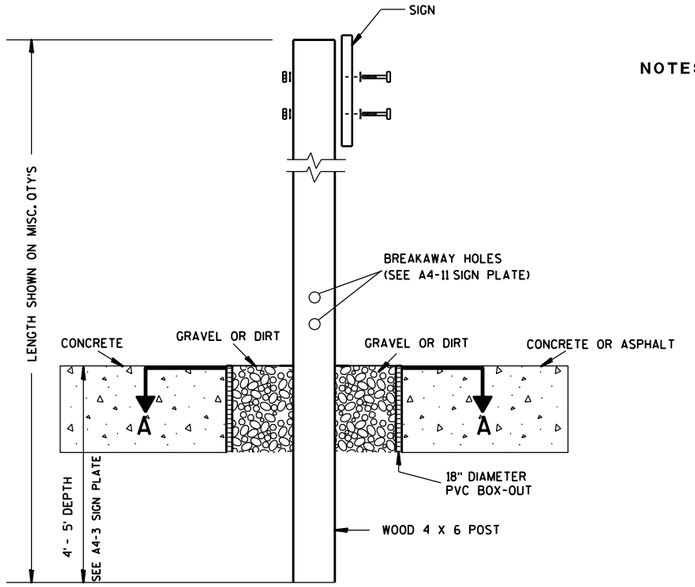
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

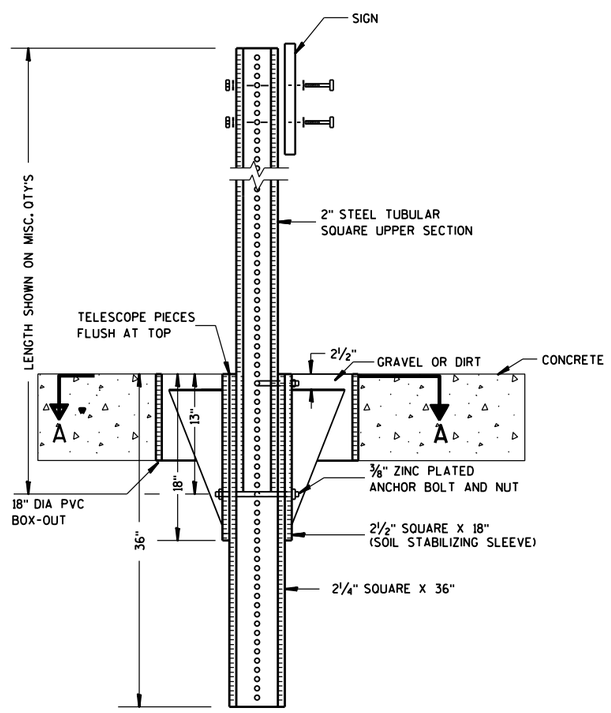
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 298	E



ELEVATION VIEW

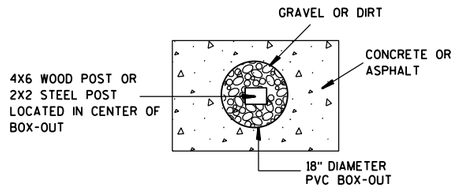
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

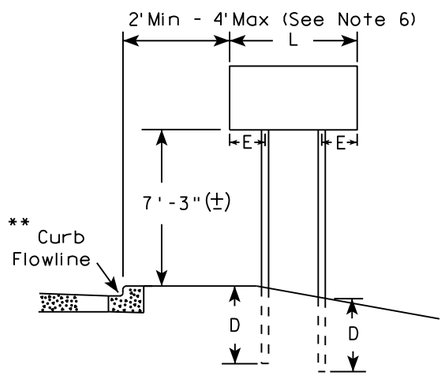
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

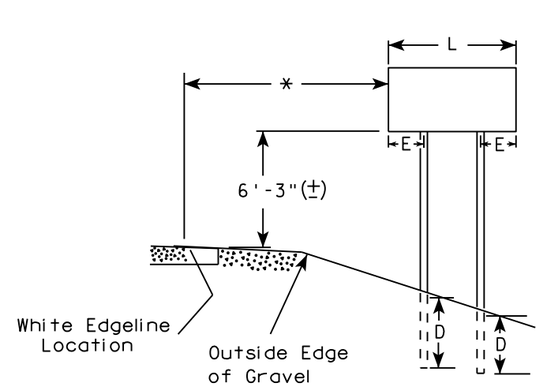
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

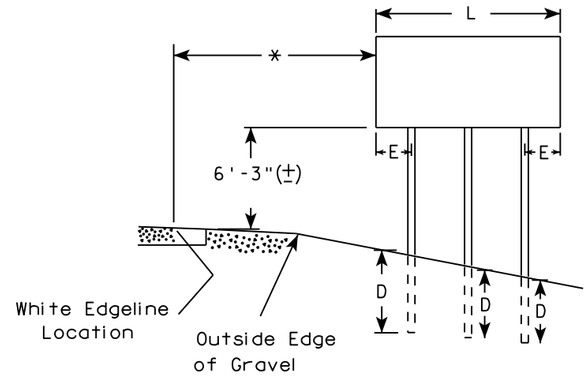
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

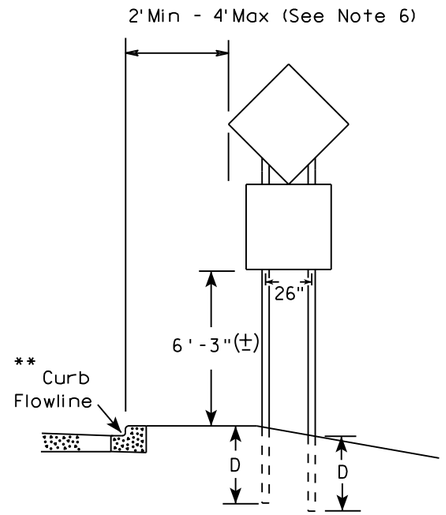
URBAN AREA



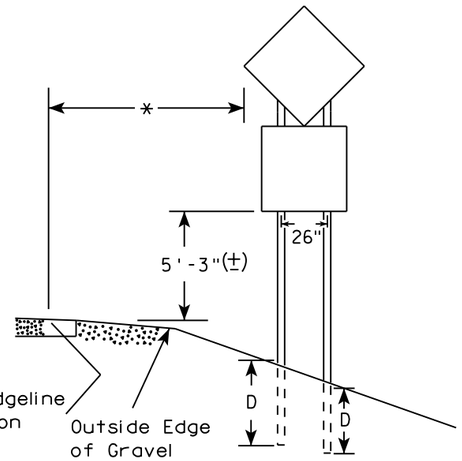
RURAL AREA (See Note 3)







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'

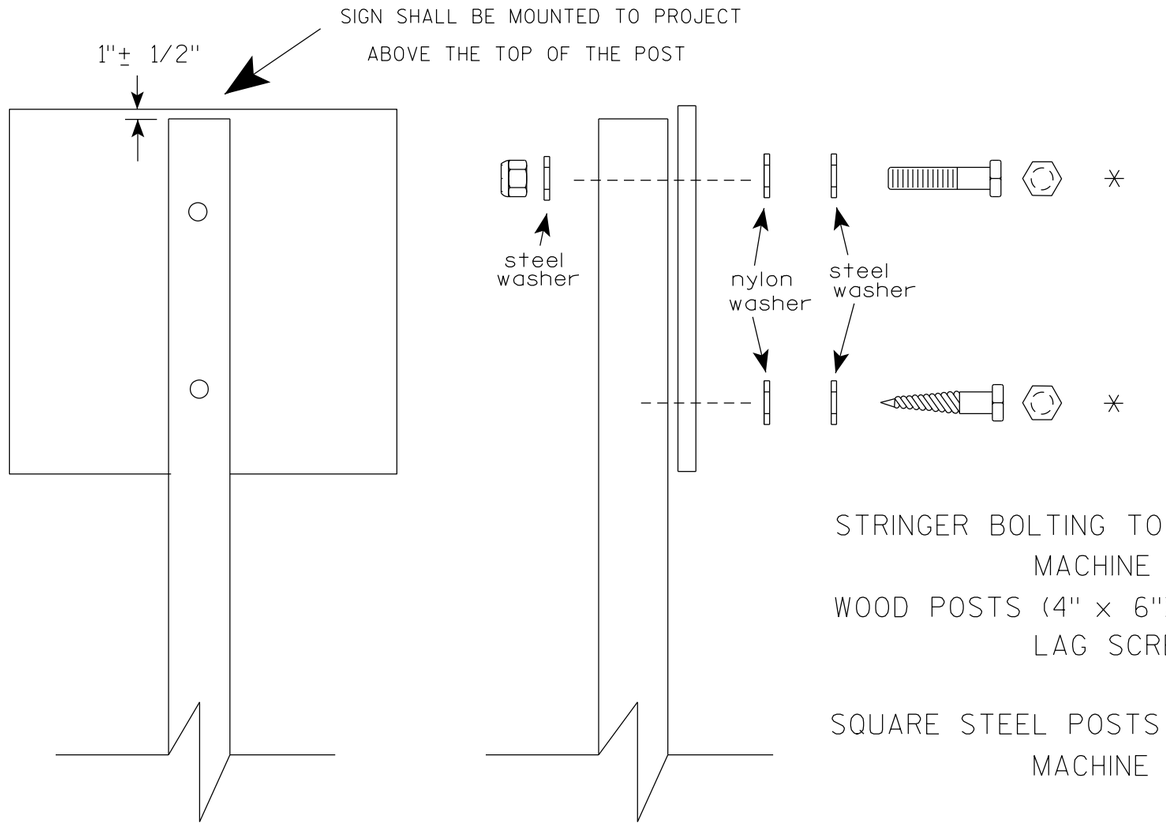
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 300	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

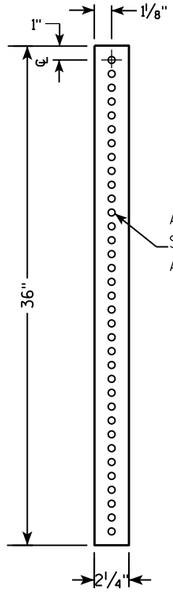
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

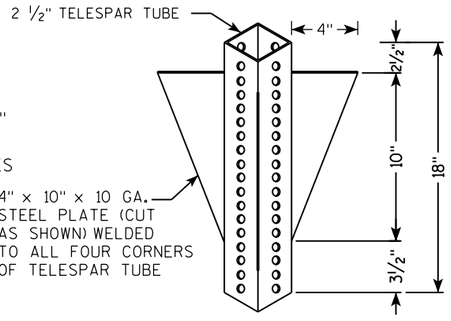
SHEET NO: 301 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

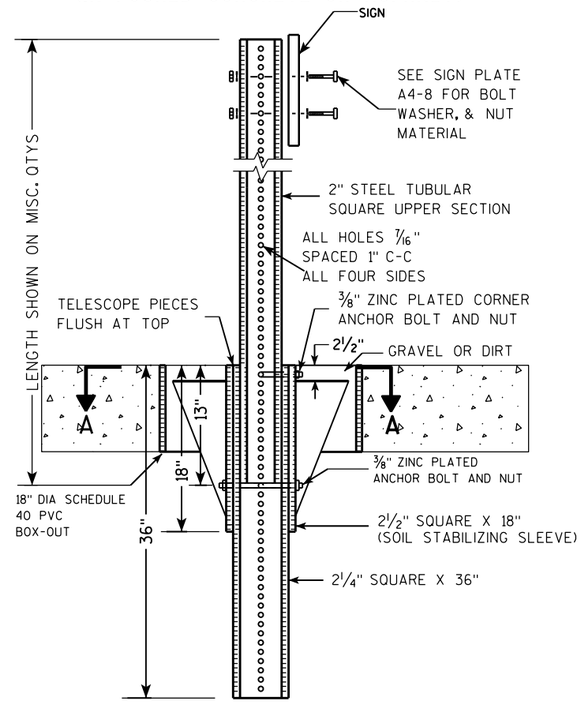
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



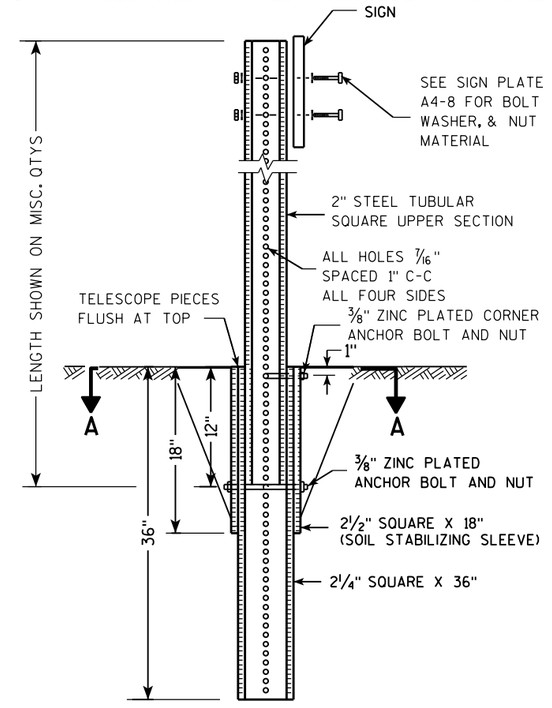
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

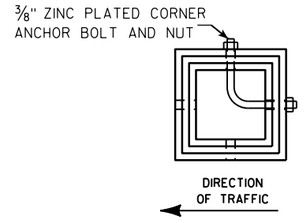


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

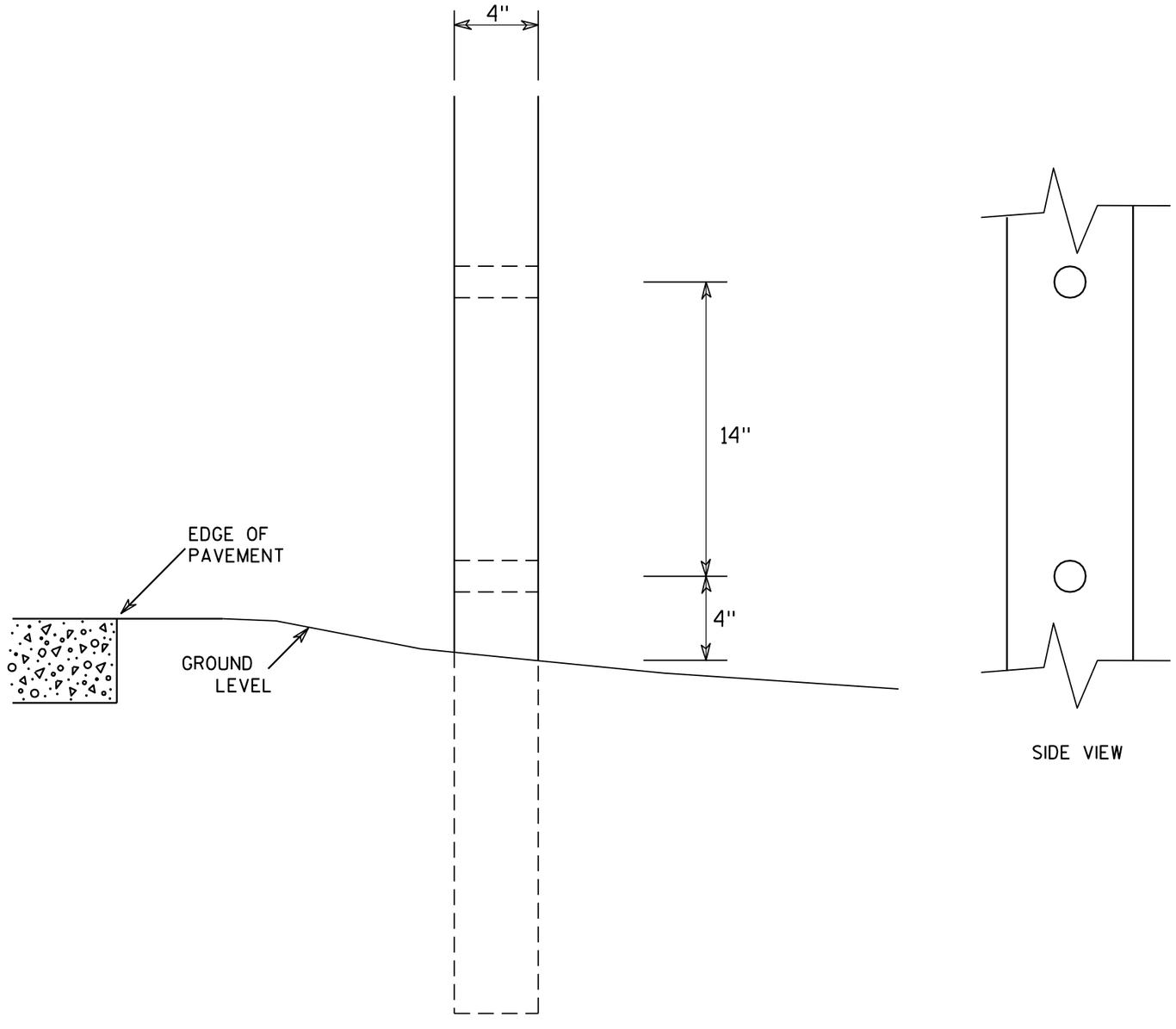
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 302 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

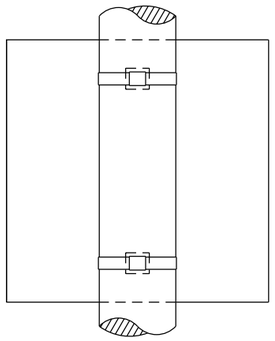
APPROVED Chester J Spang
for State Traffic Engineer

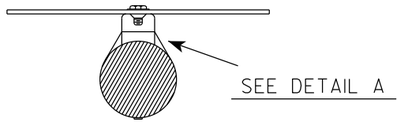
DATE 3/27/97 PLATE NO. A4-11.2

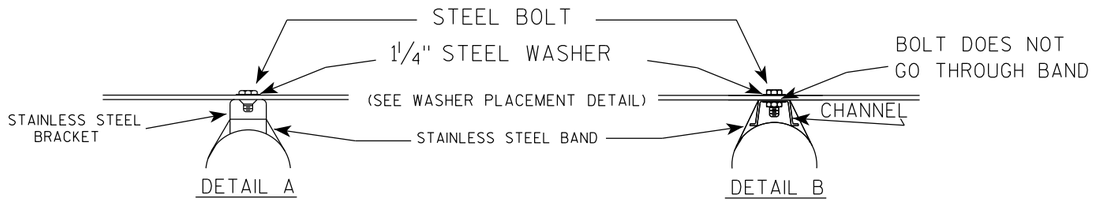
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 303	E

BANDING

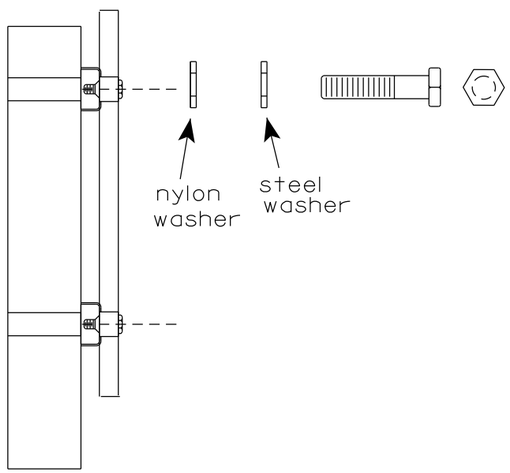
SINGLE SIGN







WASHER PLACEMENT

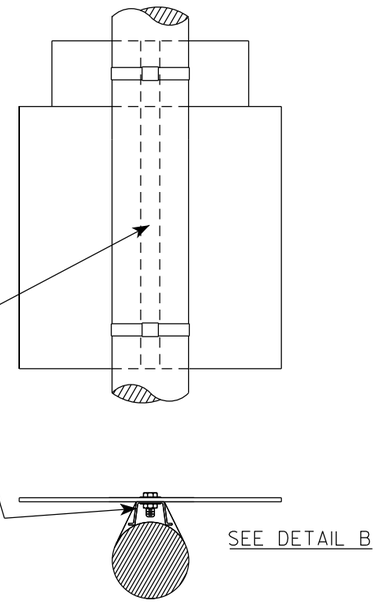


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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

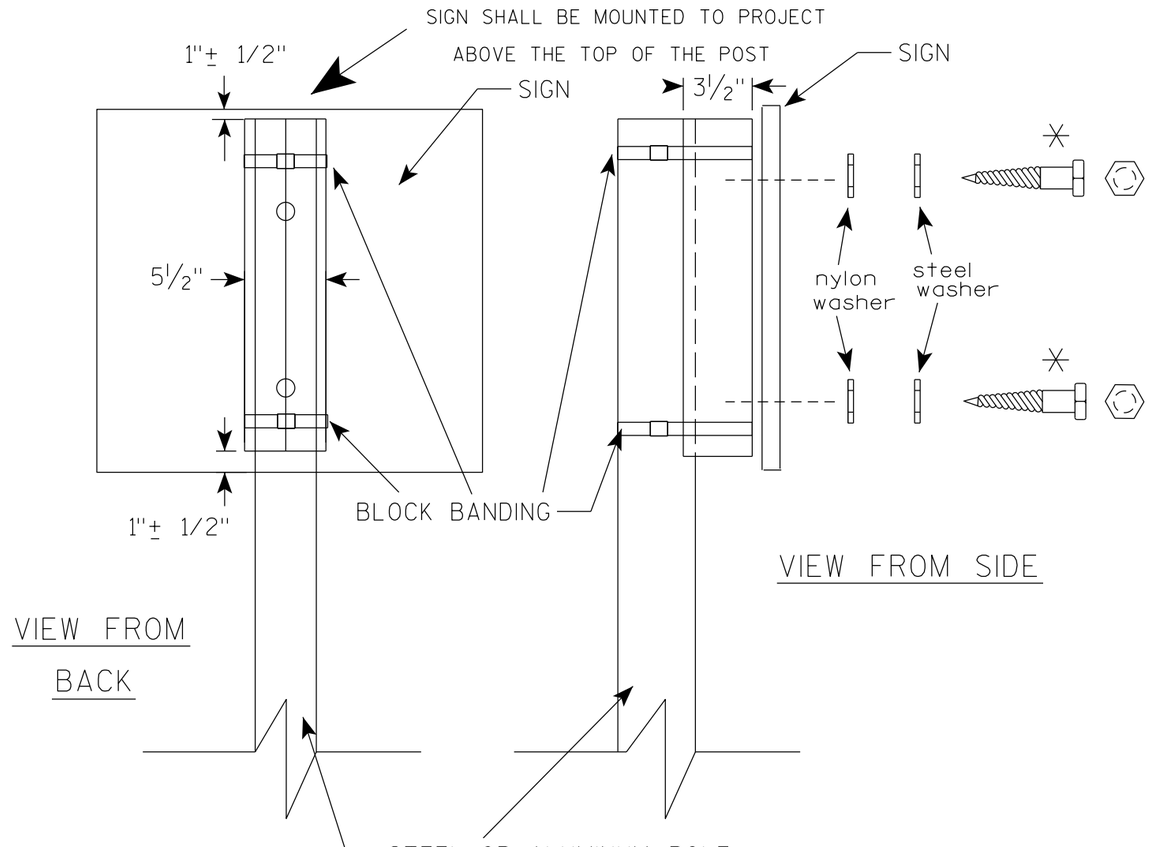
DATE 6/10/19 PLATE NO. A5-9.4

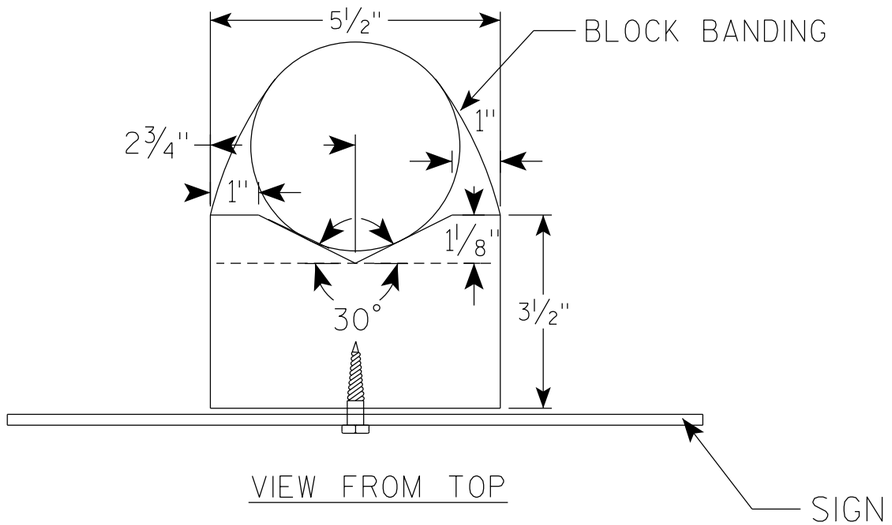
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 304	E

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)

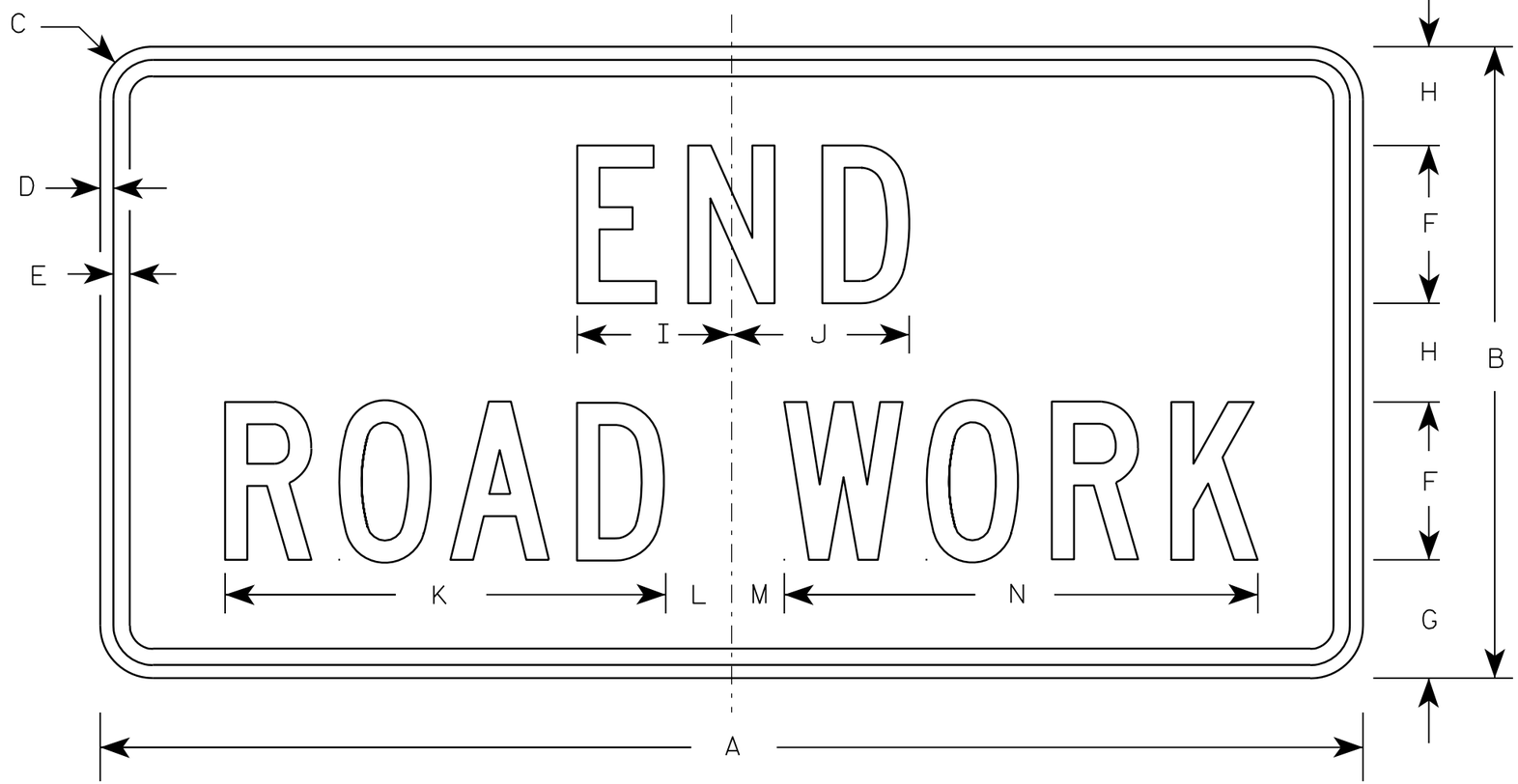
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 305 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

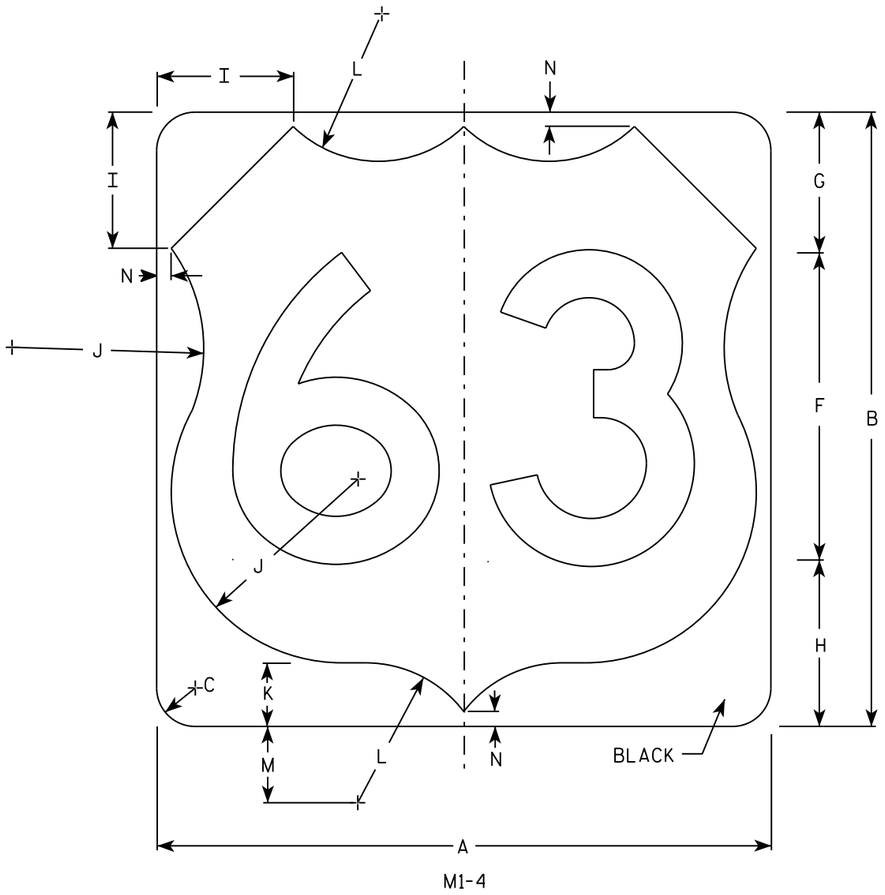
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

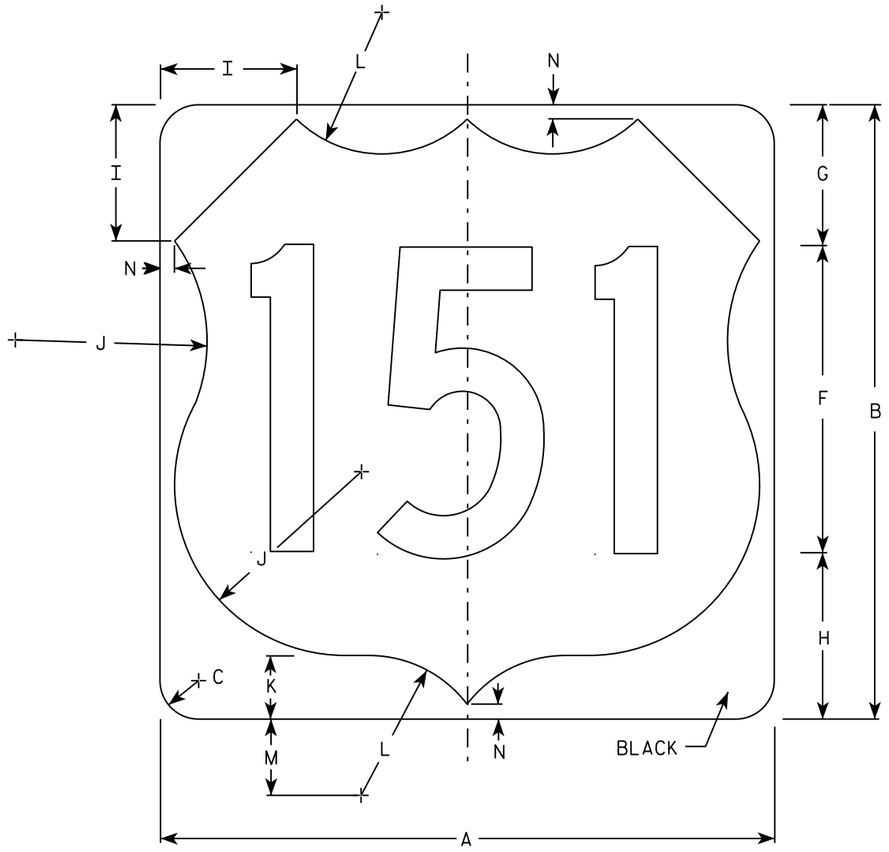
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 306	E

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

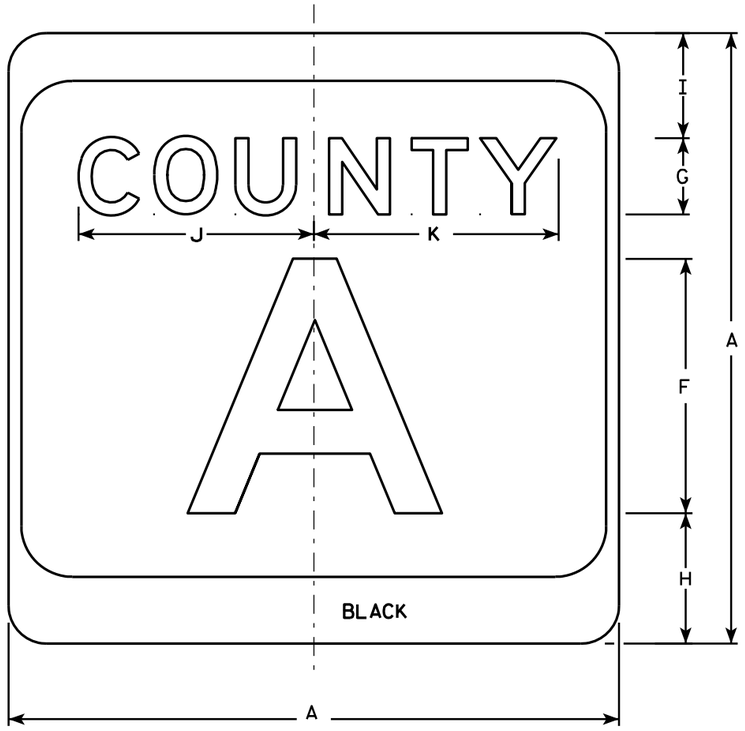
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

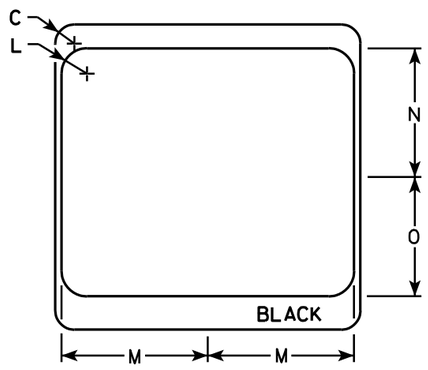
APPROVED Matthew R Rauch
for State Traffic Engineer

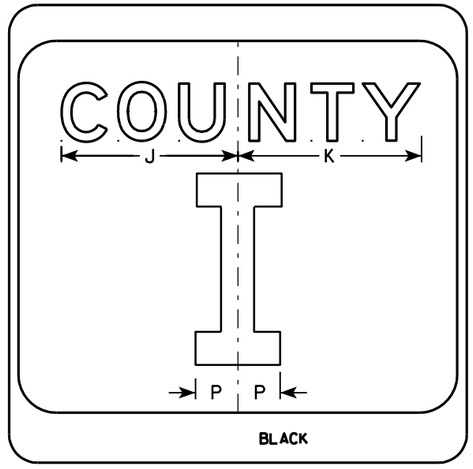
DATE 3/16/18 PLATE NO. M1-4.10

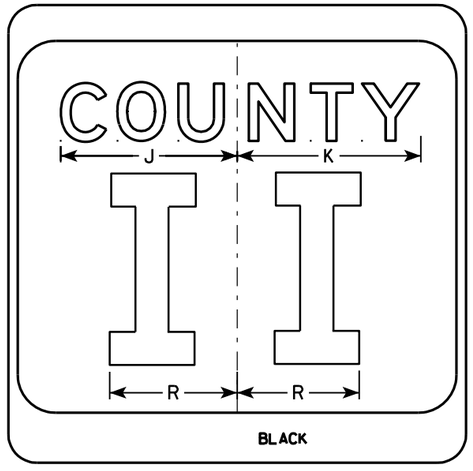
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 307 | E



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

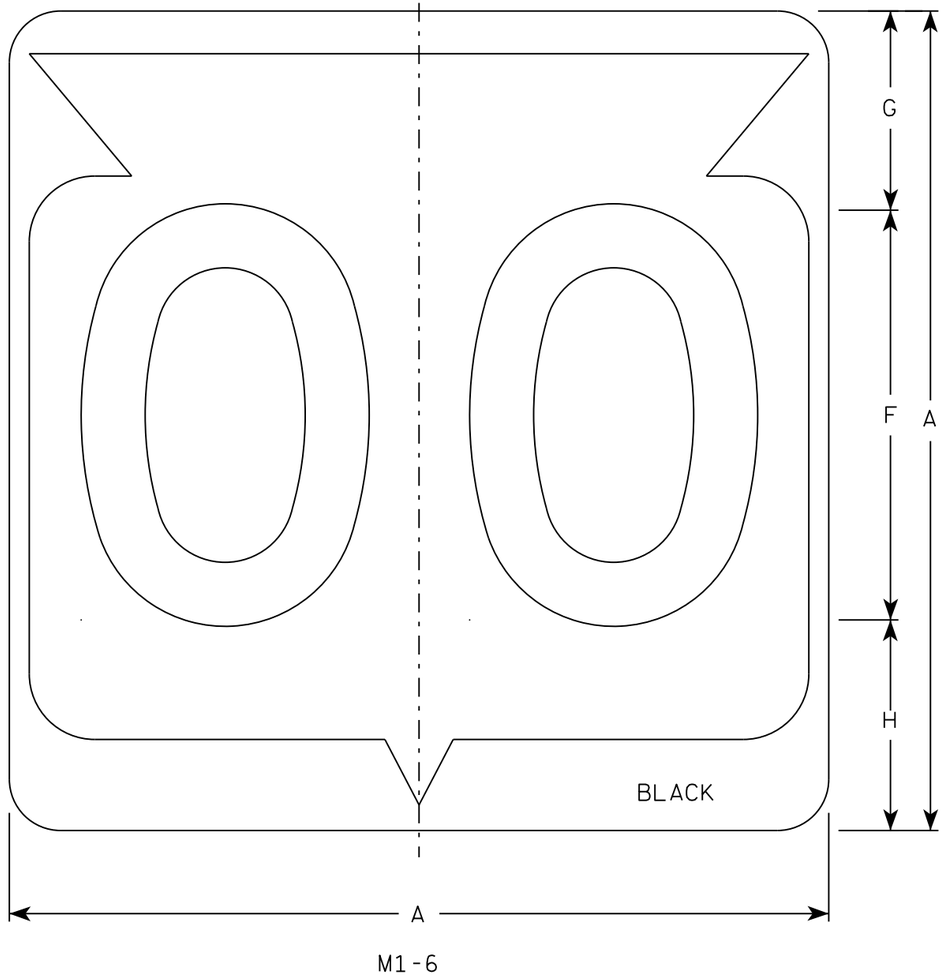
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

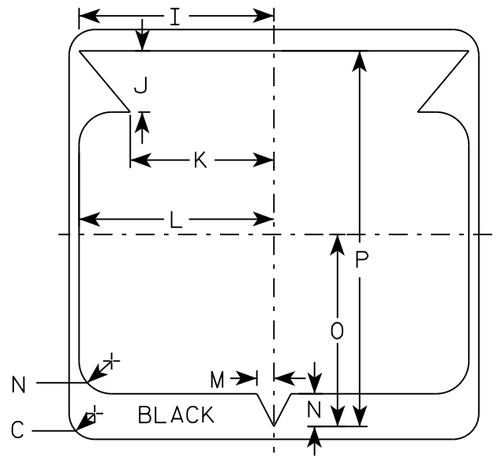
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 308	E



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

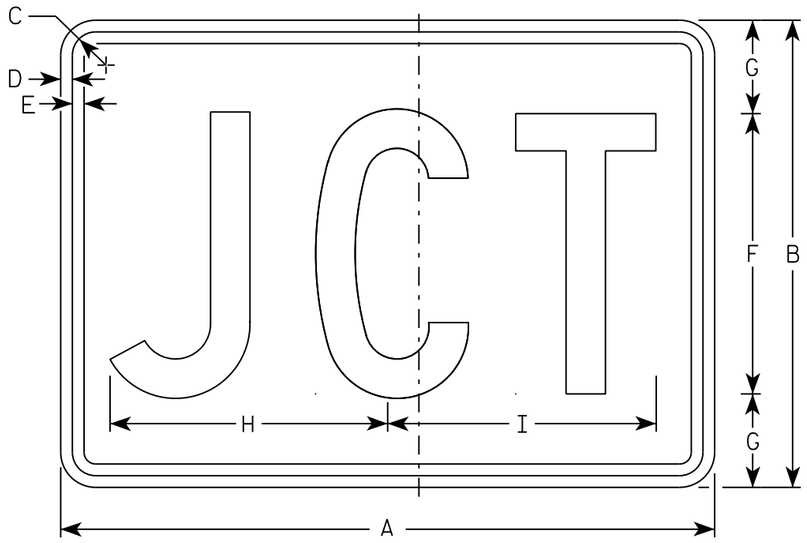
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

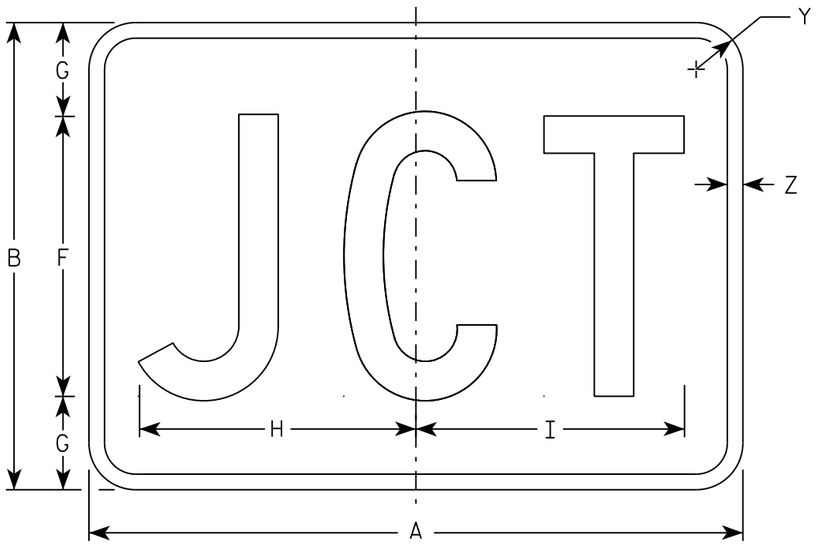
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 309 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

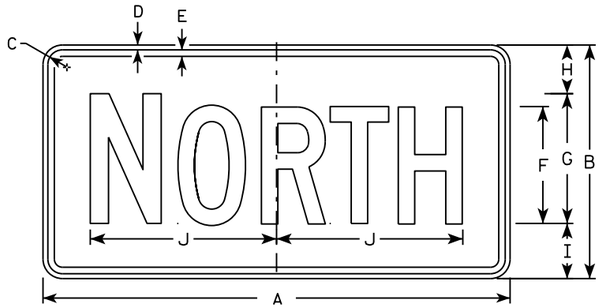
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

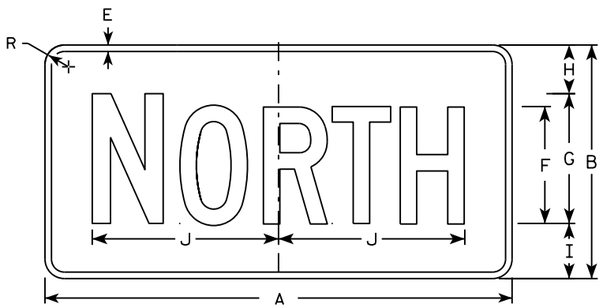
DATE 10/15/15 PLATE 310 12-1.12

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



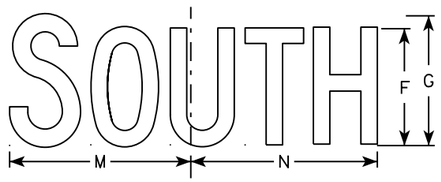
MB3-1
MK3-1
MN3-1



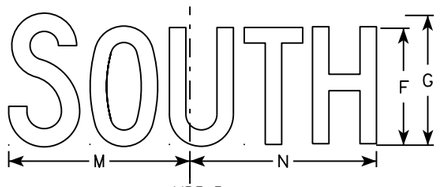
M3-2
MM3-2
MP3-2



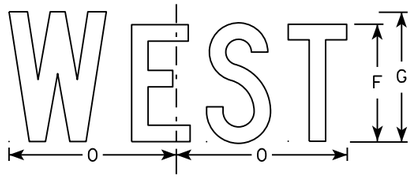
MB3-2
MK3-2
MN3-2



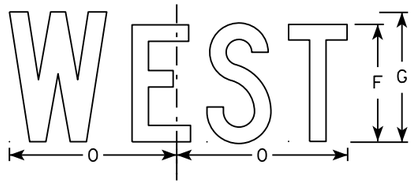
M3-3
MM3-3
MP3-3



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

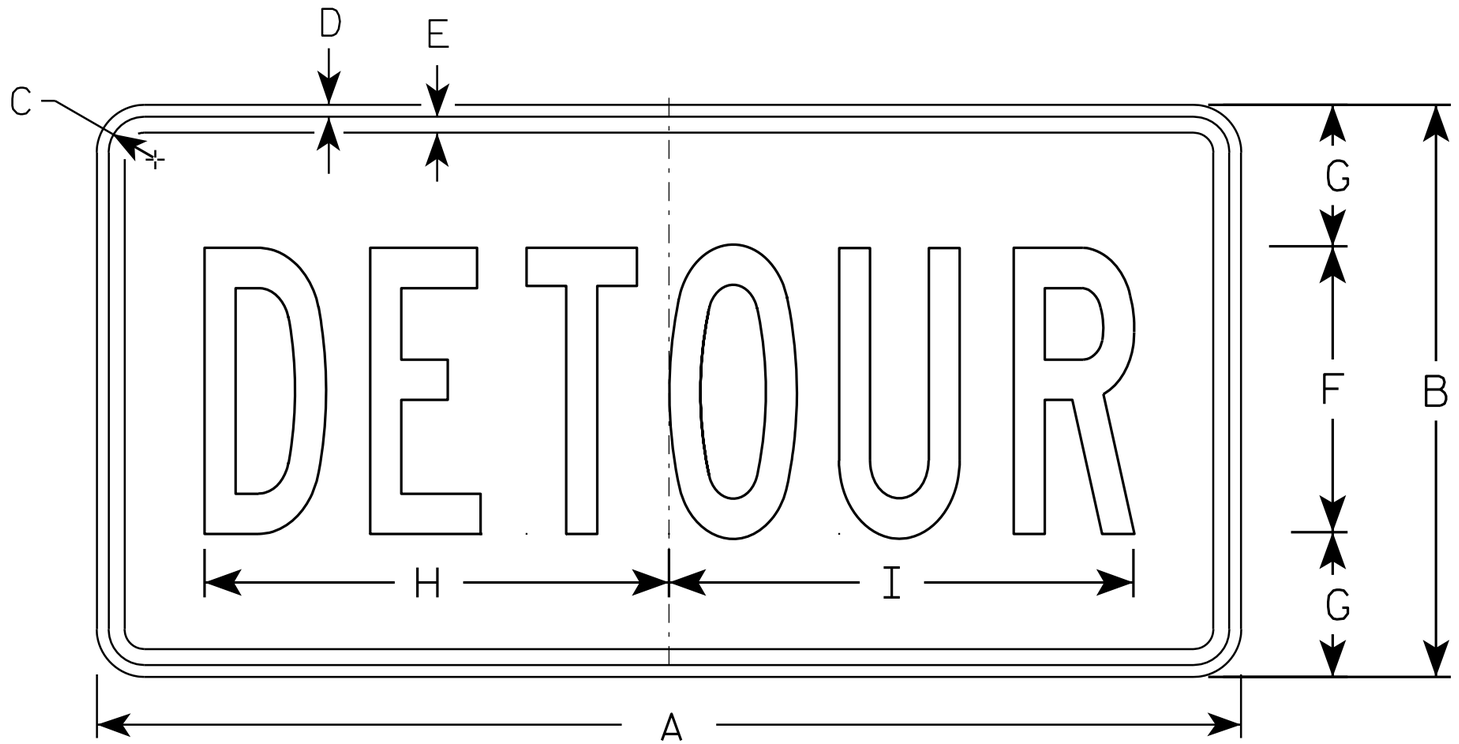
WISCONSIN DEPT OF TRANSPORTATION

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



M4-8

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																											

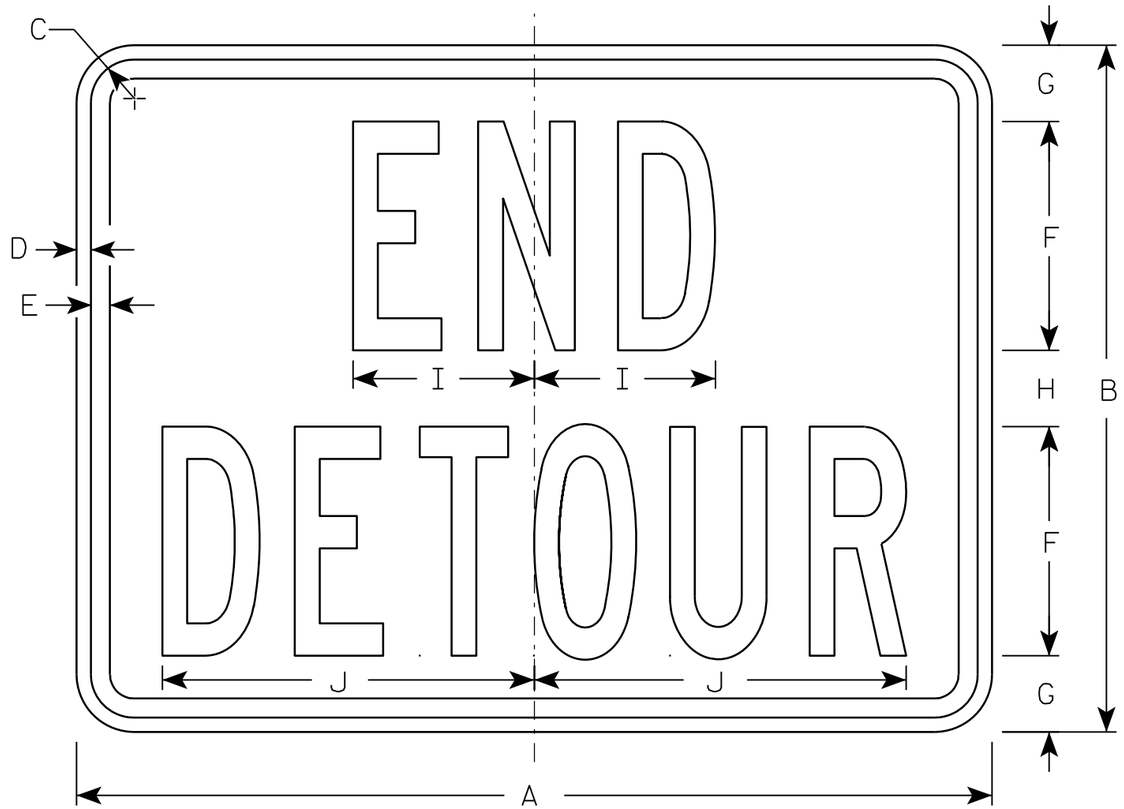
STANDARD SIGN
M4-8

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: 312	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																											

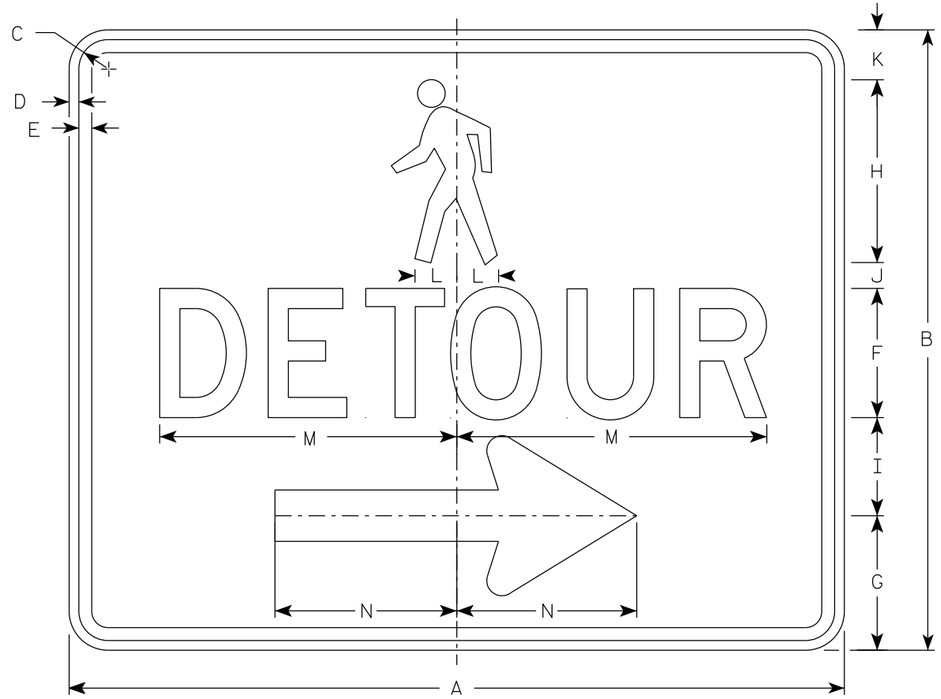
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

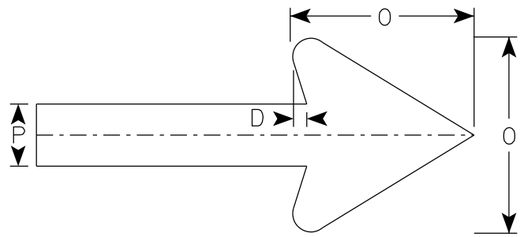
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 313	E



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																											

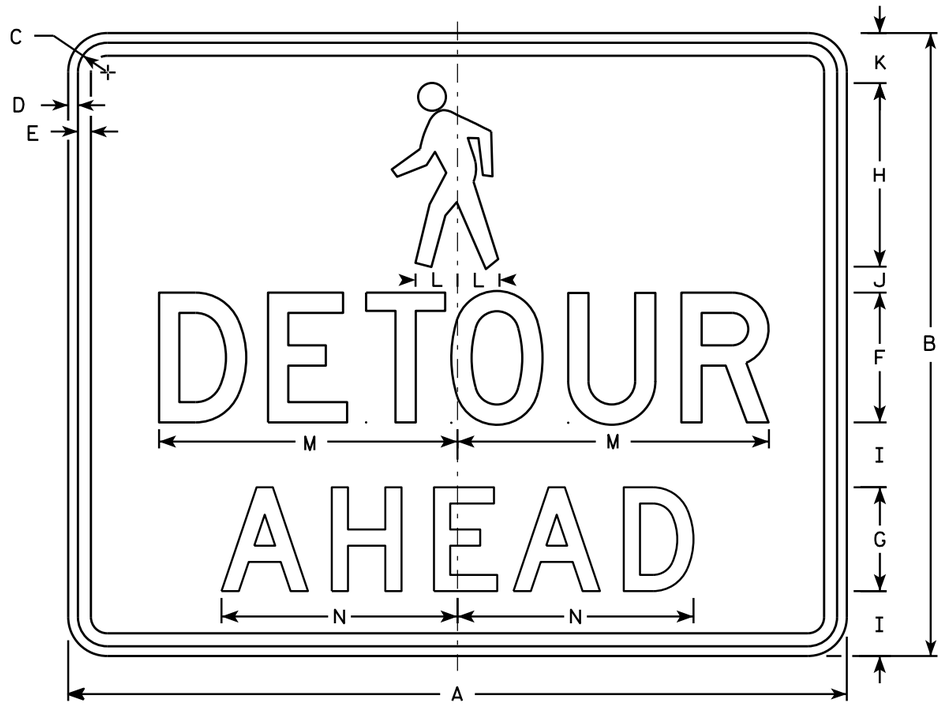
STANDARD SIGN
M4-9B L&R

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: 314 | E



M4-9BA

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.

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	4	7 1/8	2 1/2	1	1 7/8	1 5/8	11 3/4	9 1/8													5.0
3																											
4																											
5																											

STANDARD SIGN
M4-9BA

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

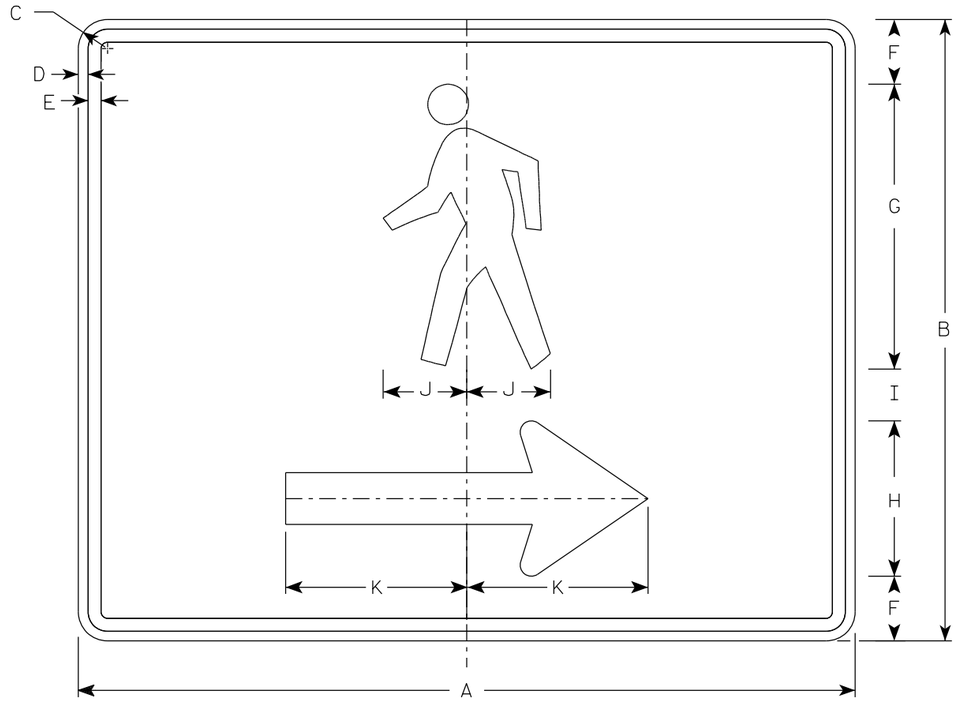
DATE 3/24/16 PLATE NO. M4-9BA.1

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

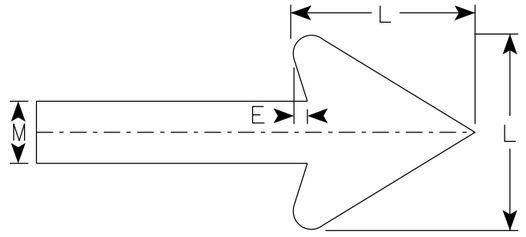
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M49BA.dgn PLOT DATE : 24-MAR-2016 14:57 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000

NOTES

1. Sign is Type II- Type F Reflective
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. M4-60L is the same as M4-60R except the arrow is reversed.



M4-60R



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	2 1/2	11	6	2	3 1/4	7	6	2														5.00
3																											
4																											
5																											

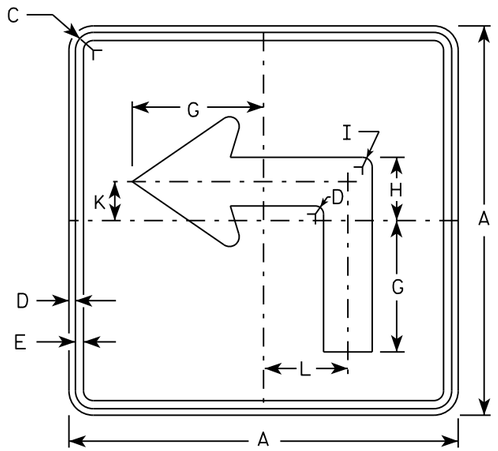
STANDARD SIGN
M4-60 L&R

WISCONSIN DEPT OF TRANSPORTATION

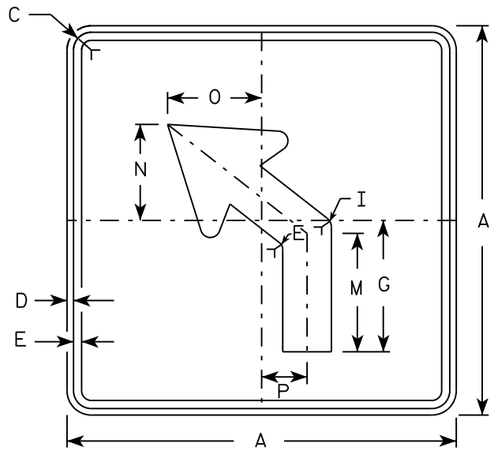
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/16/2021 PLATE NO. M4-60.1

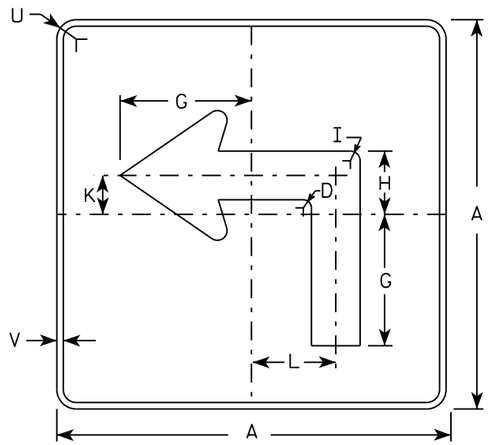
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 316 | E



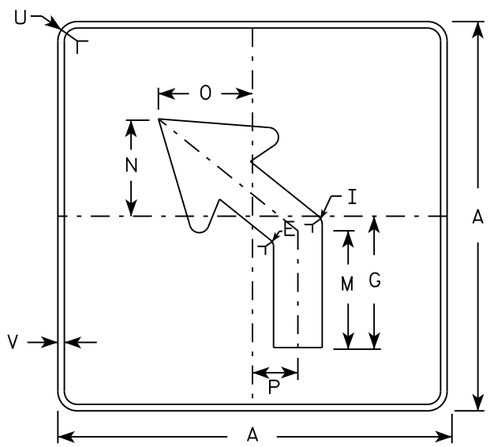
M5-1L
MM5-1L
MO5-1L
MP5-1L



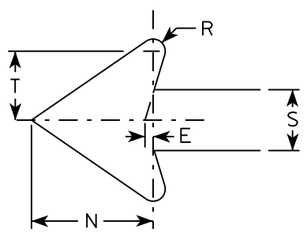
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

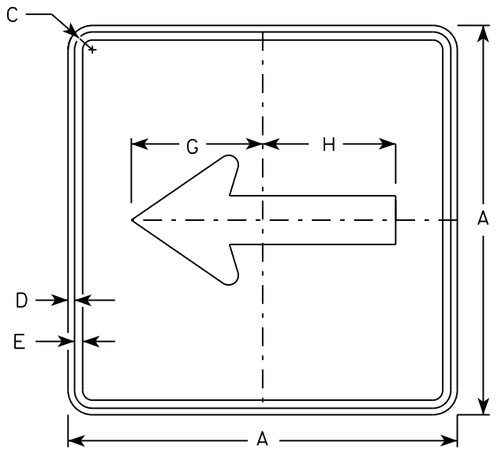
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

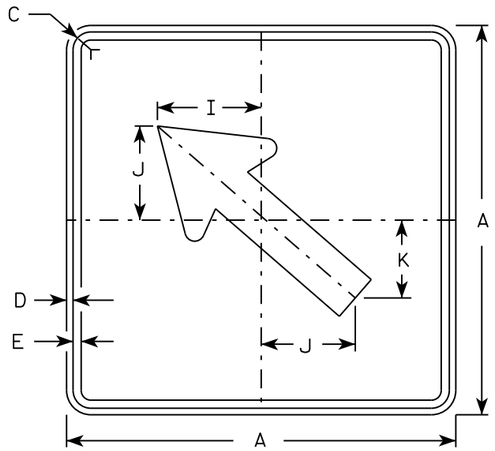
DATE 10/15/15 PLATE NO. M5-1.13

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



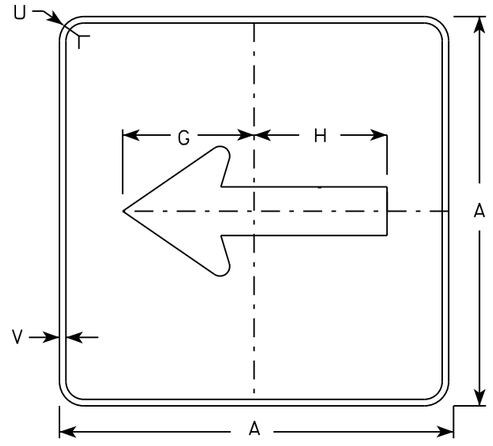
M6-1
MM6-1
MO6-1
MP6-1



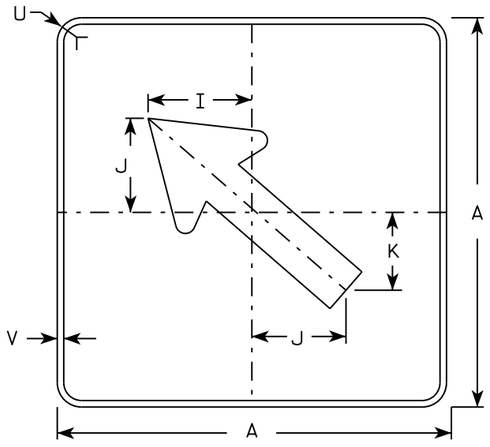
M6-2
MM6-2
MO6-2
MP6-2

NOTES

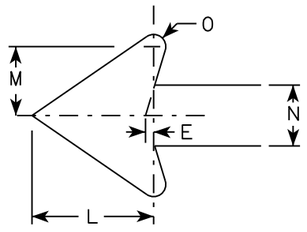
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

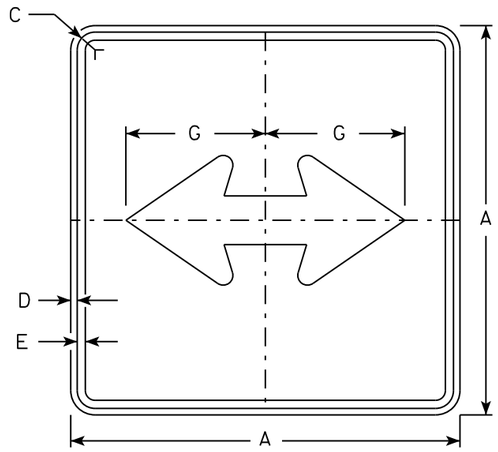
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

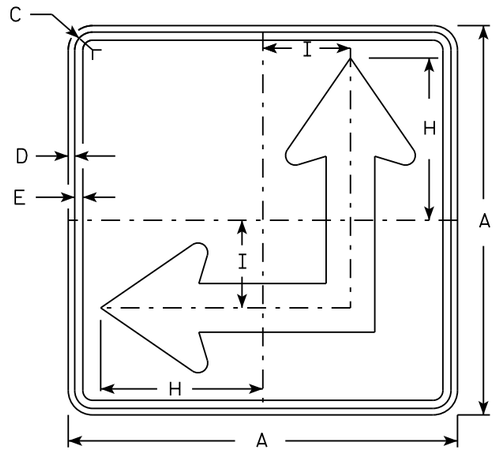
DATE 10/15/15 PLATE 318 M6-1.15

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



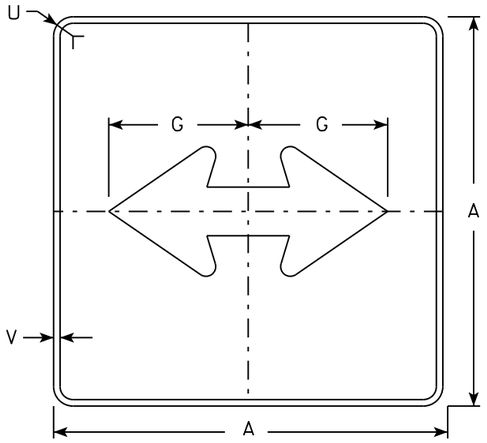
M6-4
MM6-4
MO6-4
MP6-4



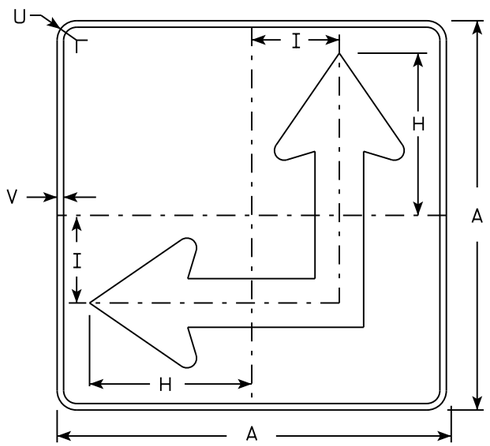
M6-6
MM6-6
MO6-6
MP6-6

NOTES

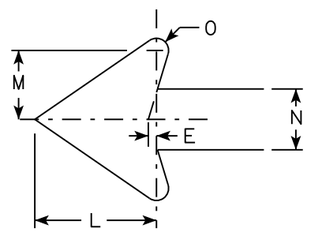
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



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																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

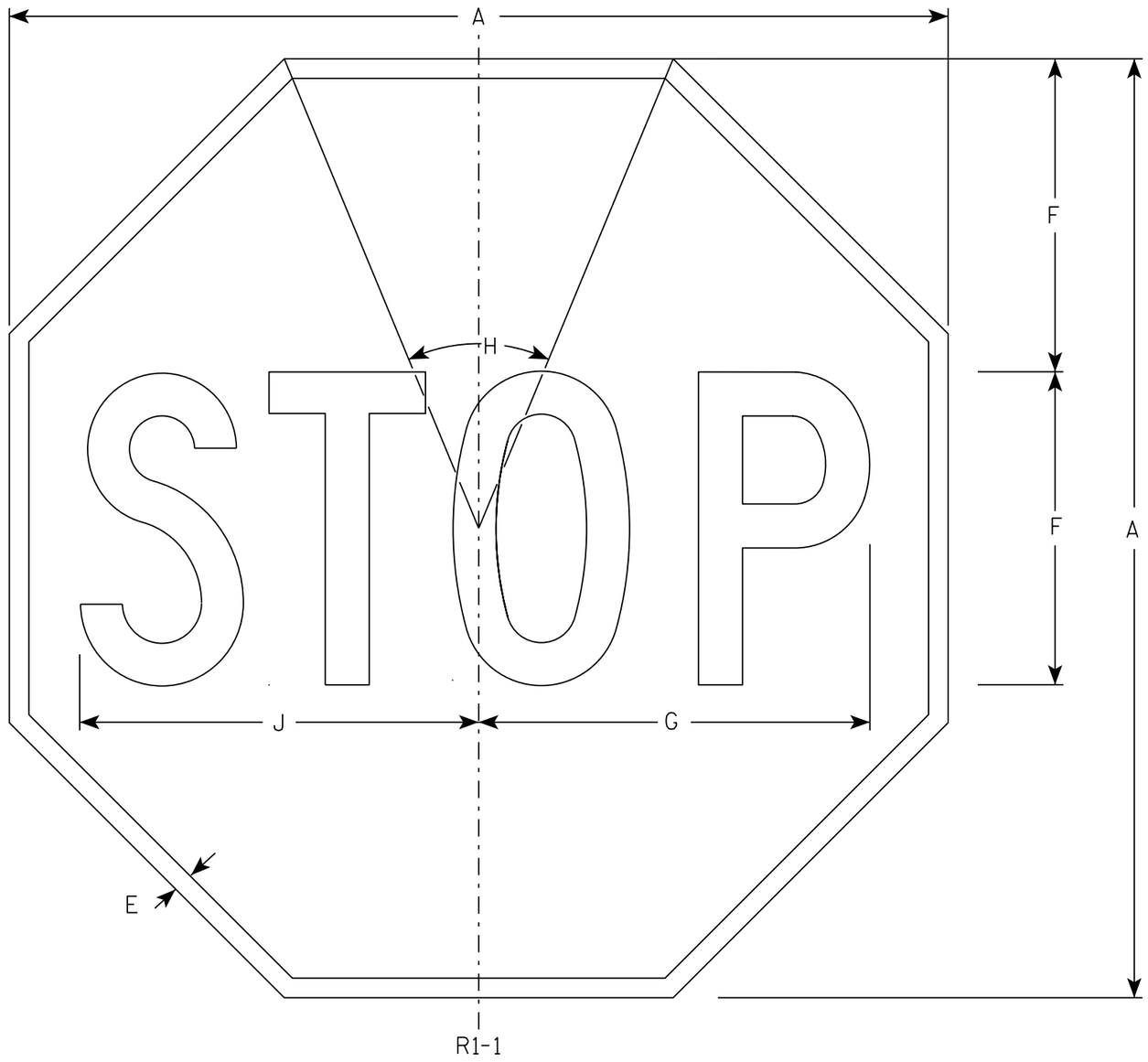
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 319 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ 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

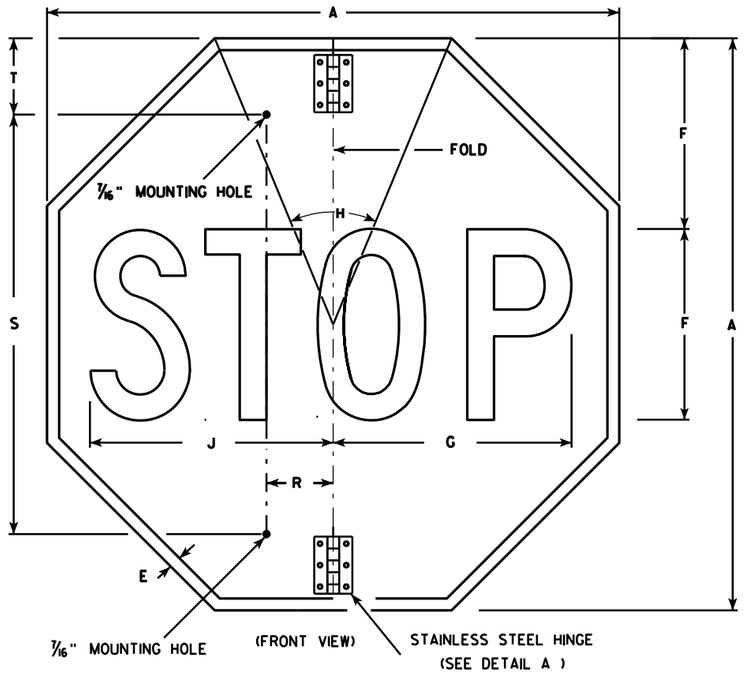
STANDARD SIGN
R1-1

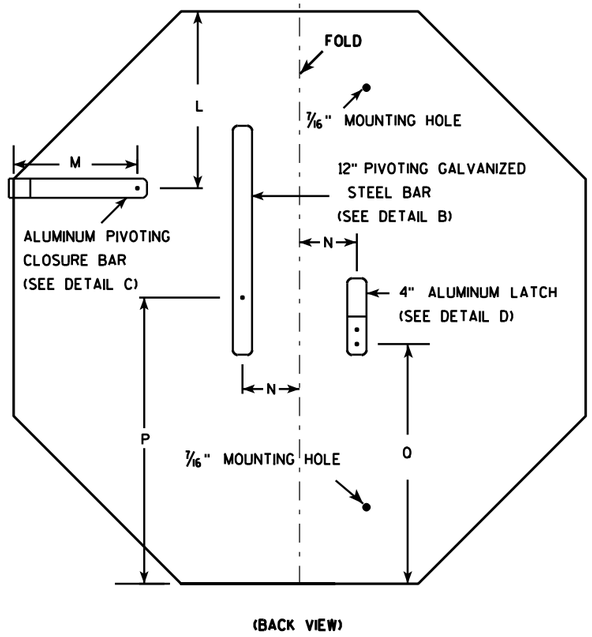
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

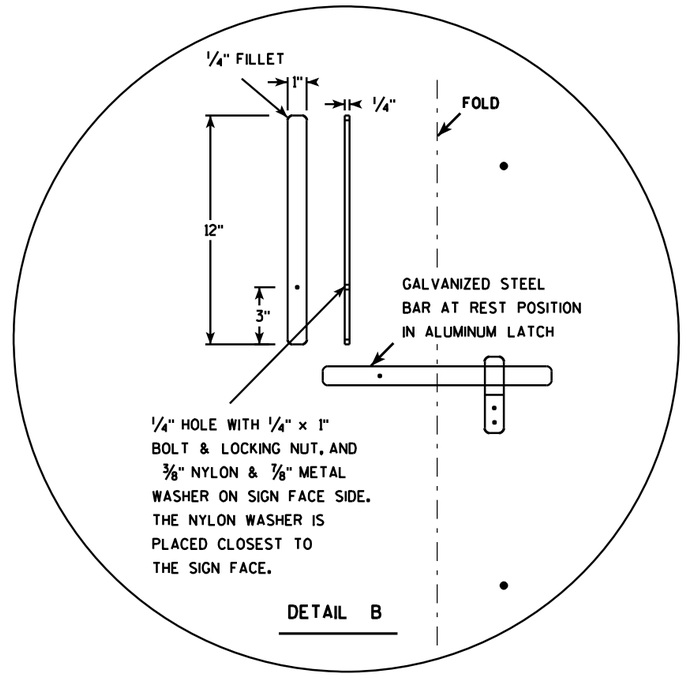
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 320	E

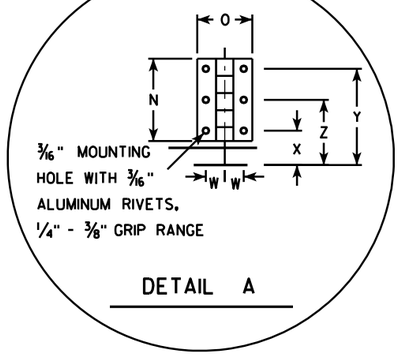


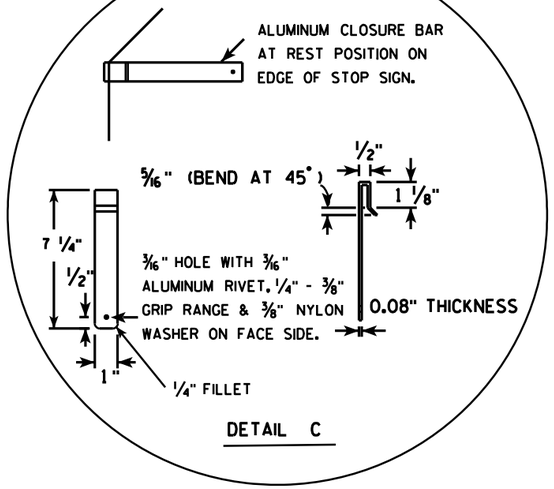


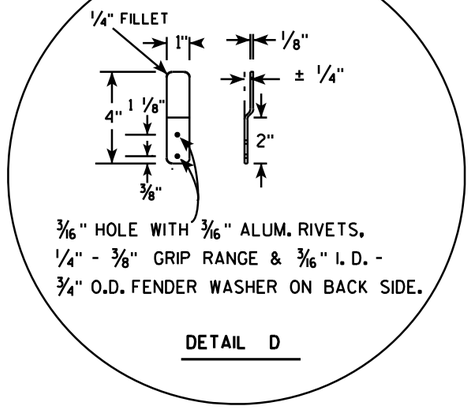
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









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																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

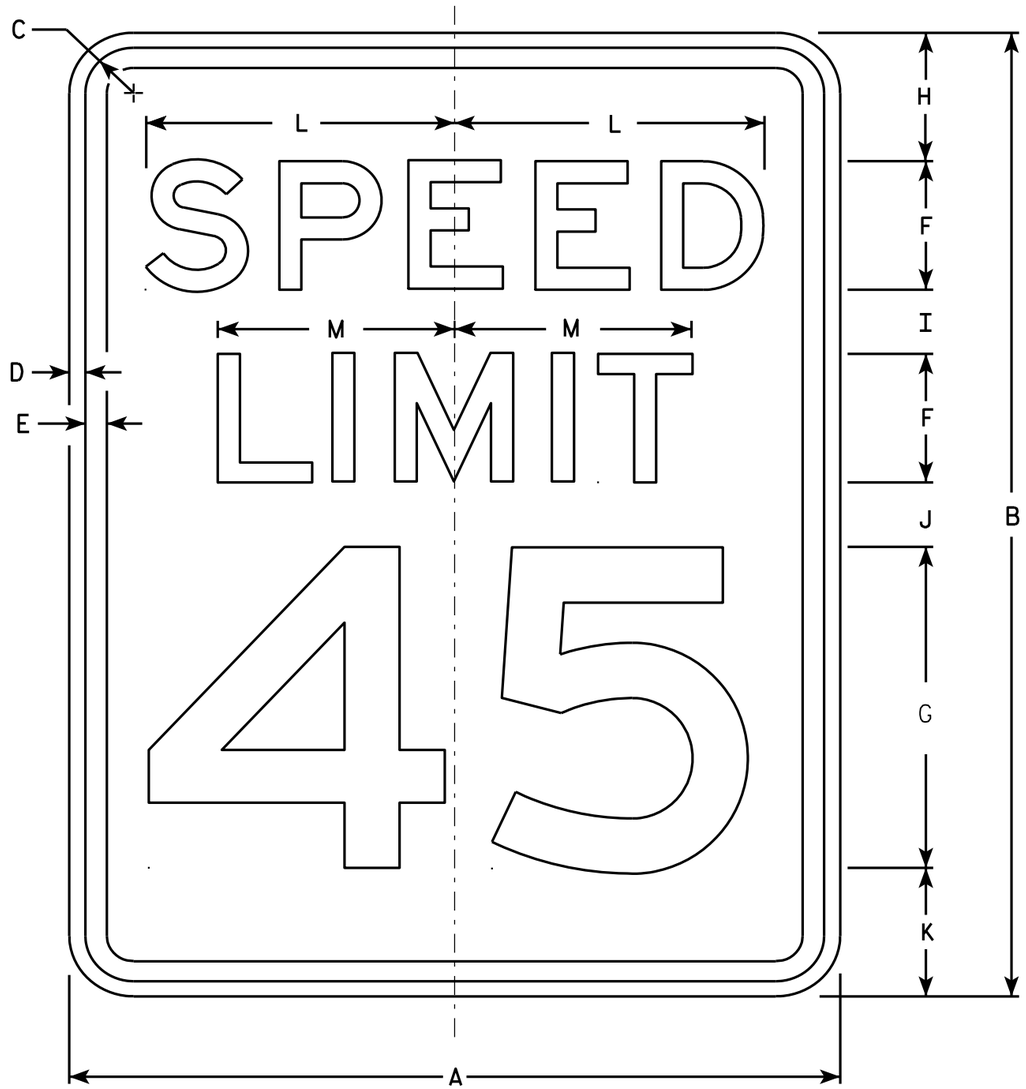
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 321	E



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

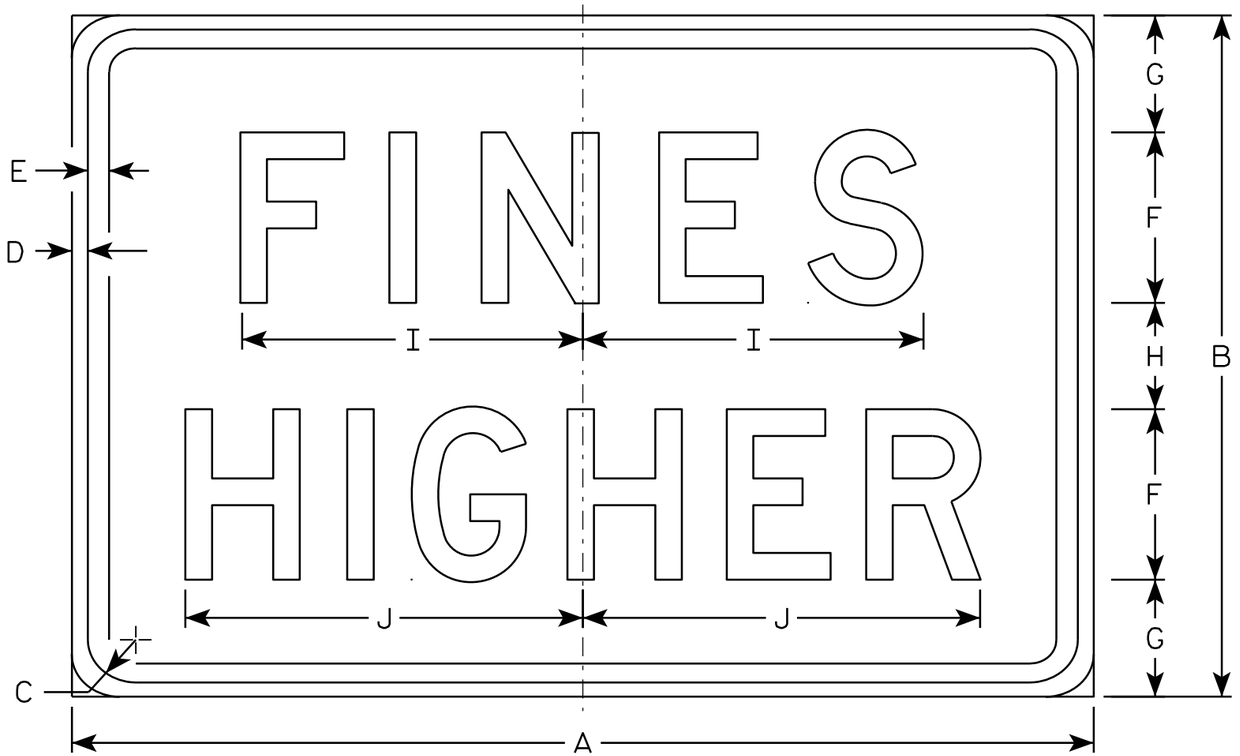
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 322 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000 WISDOT/CADDS SHEET 42



R2-6P

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.

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	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

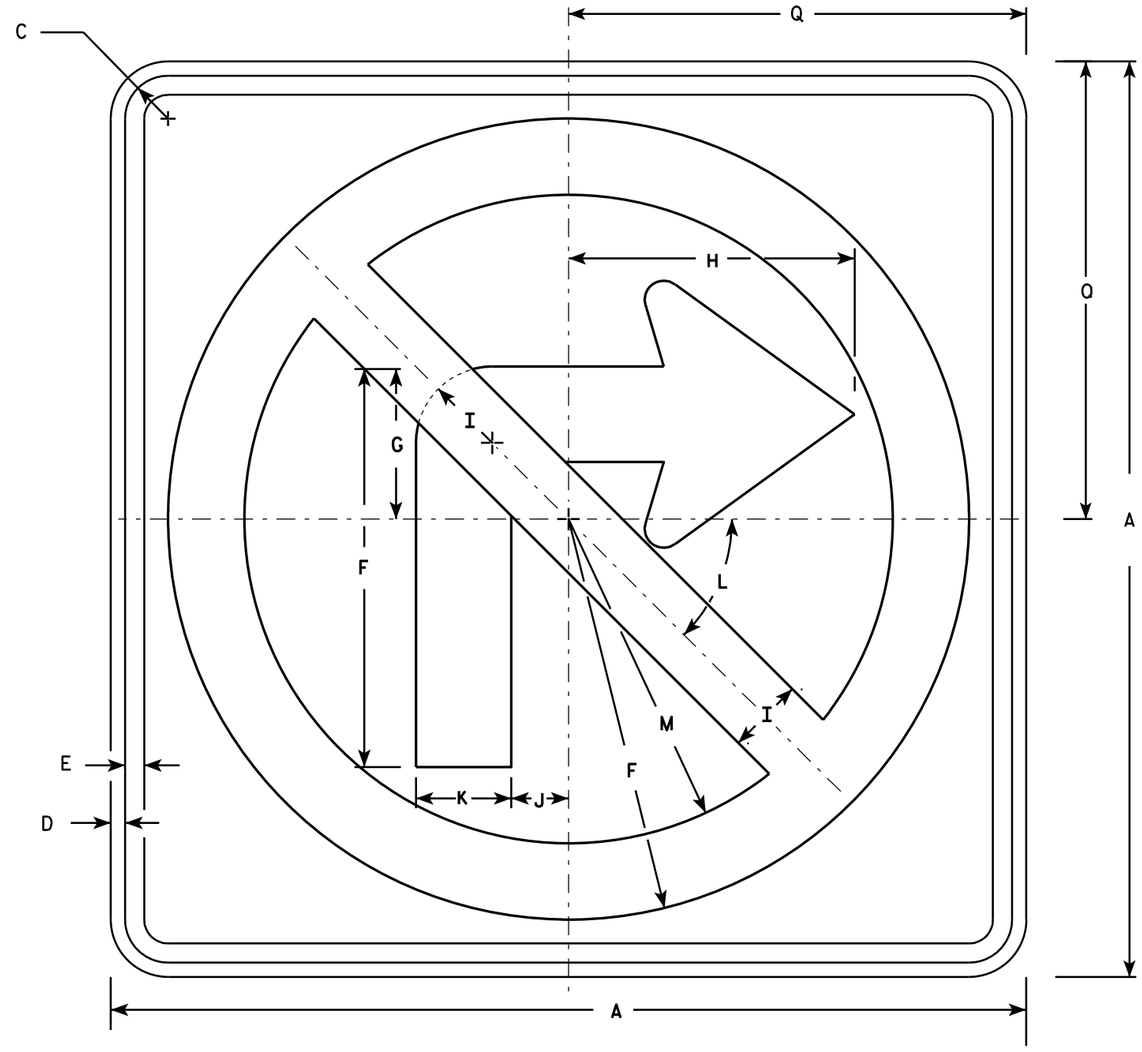
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 323 | E

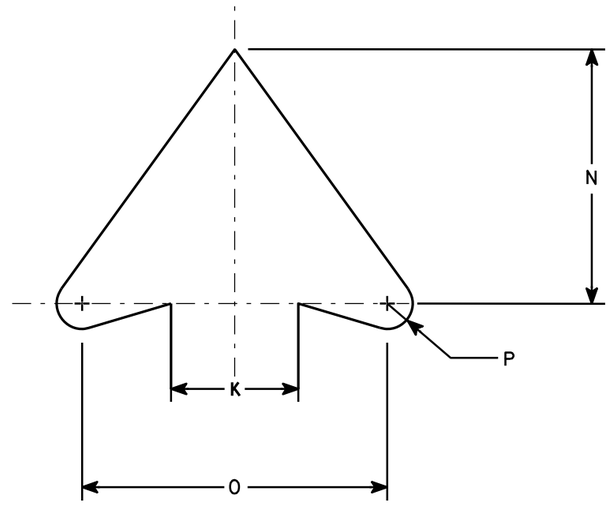
7



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

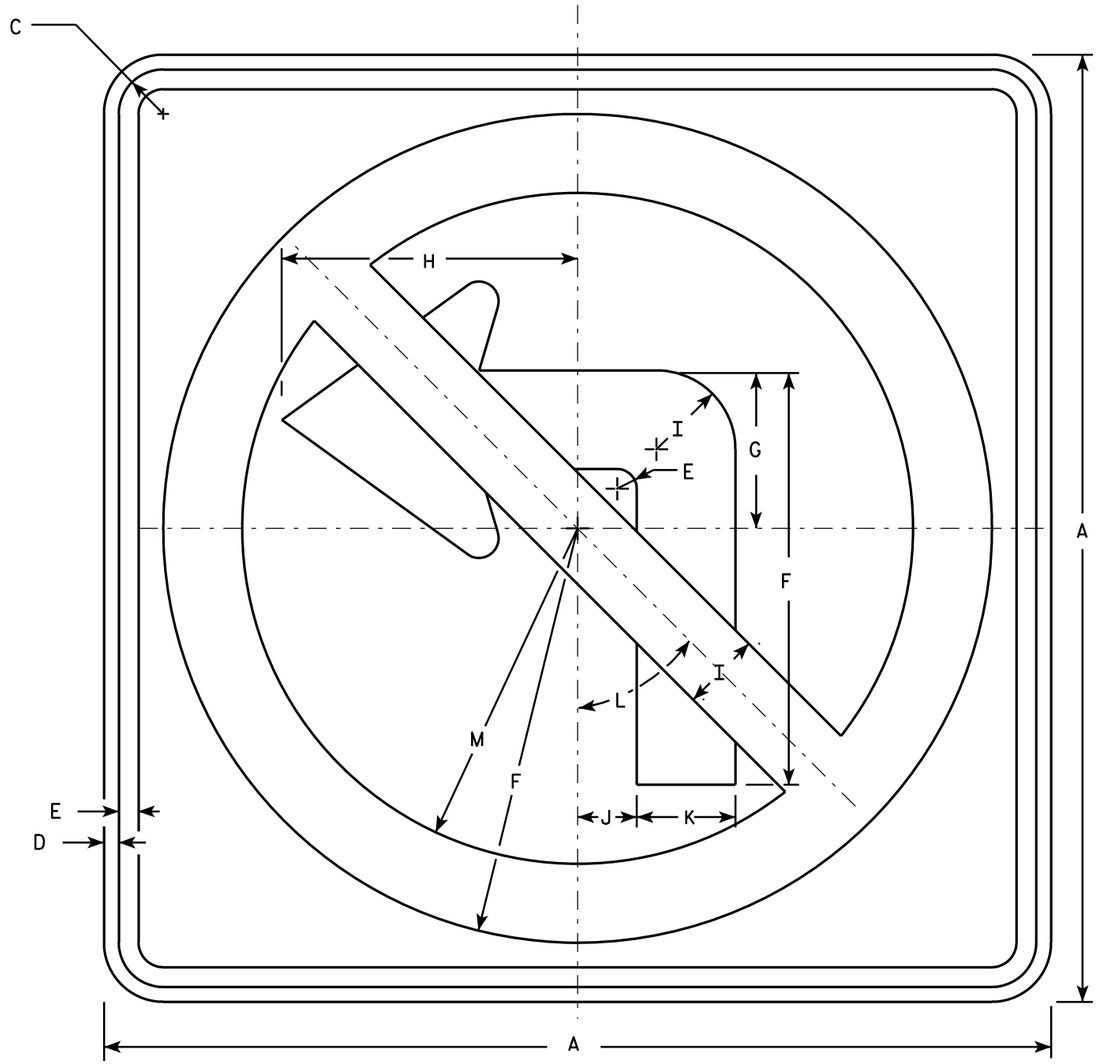
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

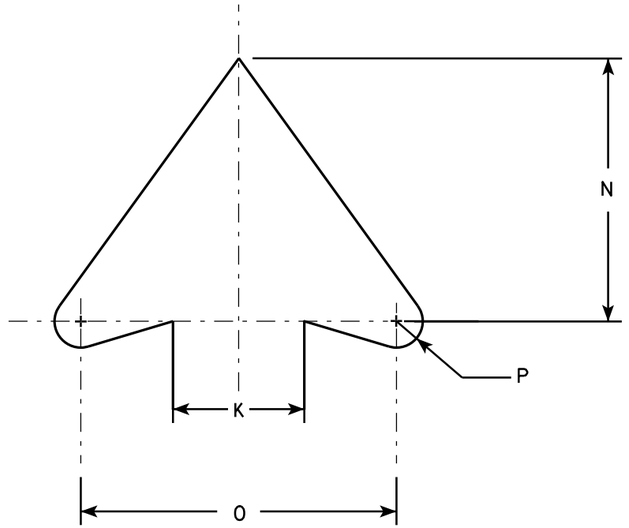
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 324	E



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

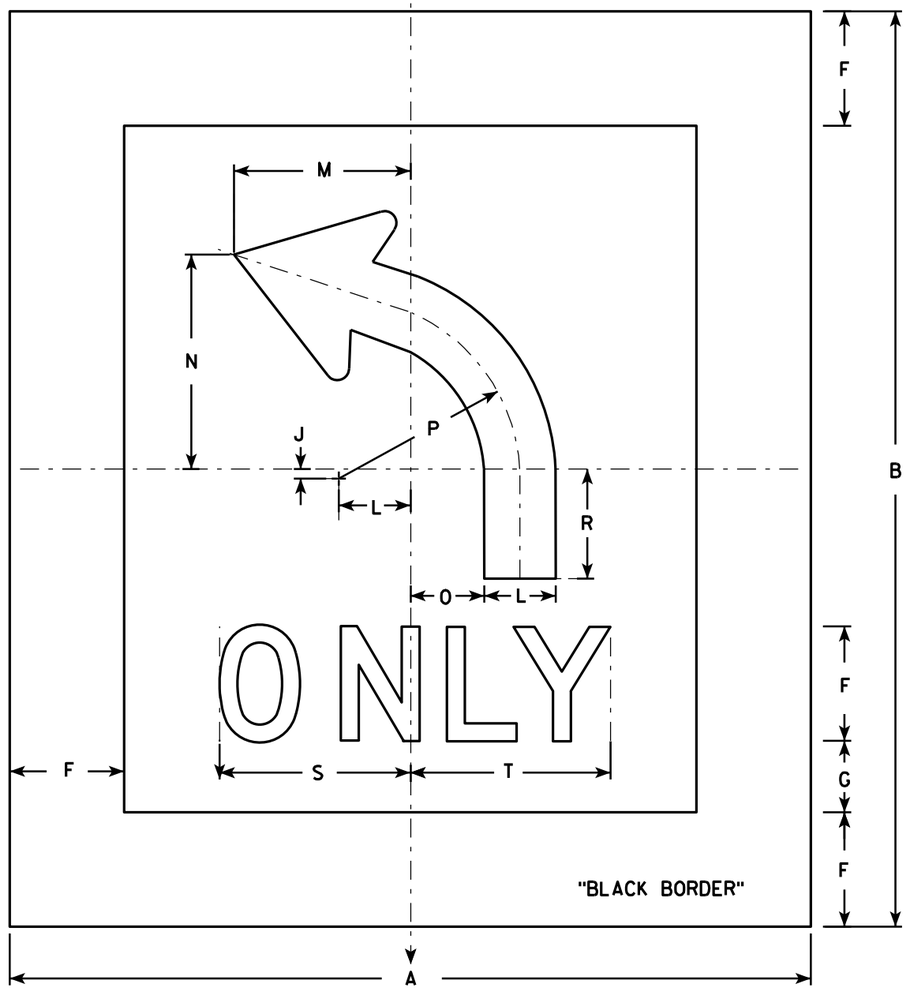
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

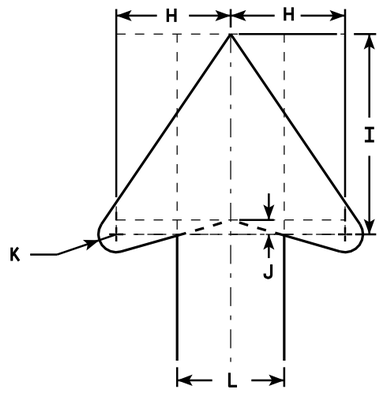
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 325	E



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

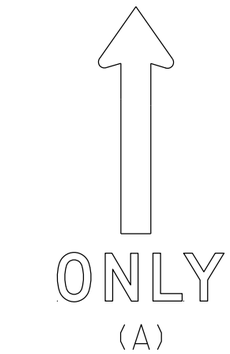
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 326	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R35.DGN PLOT DATE : 24-FEB-2011 14:53 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

7

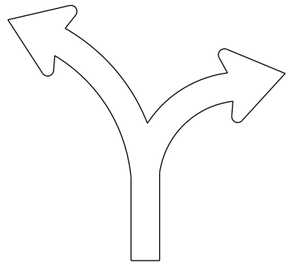
7

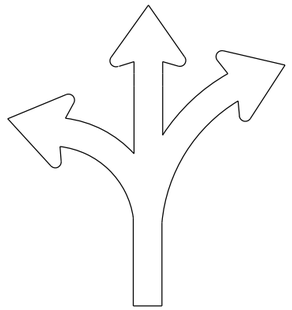


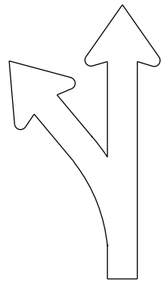
(A)

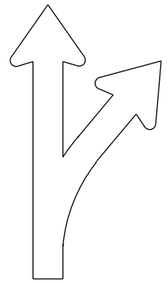


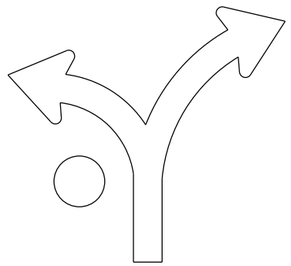
(B)

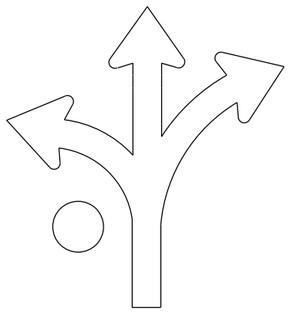

(C)

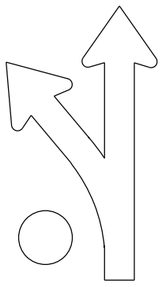

(D)


(E)


(F)

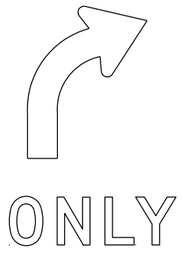

(G)


(H)

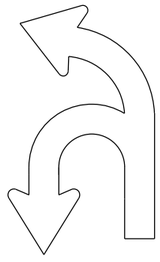

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

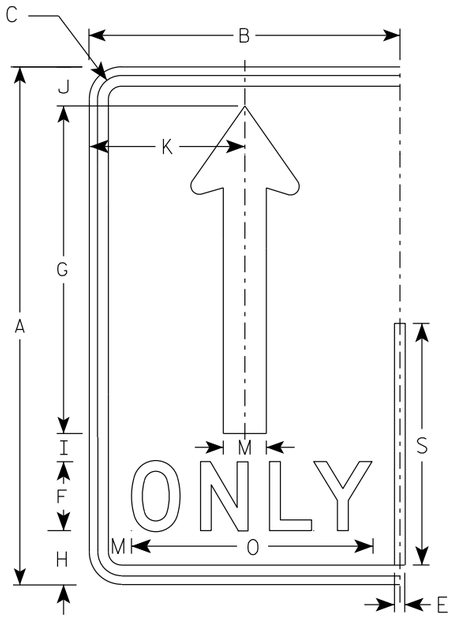
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

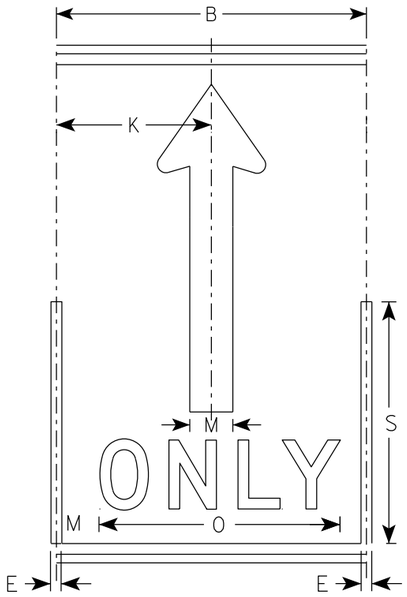
DATE 5/21/19 PLATE NO. R3-8.1

NOTES

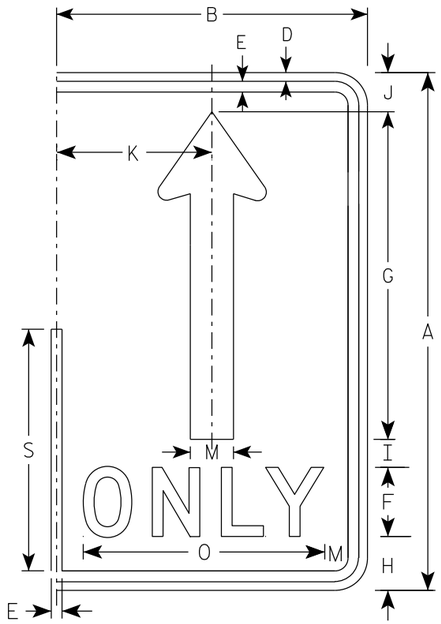
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



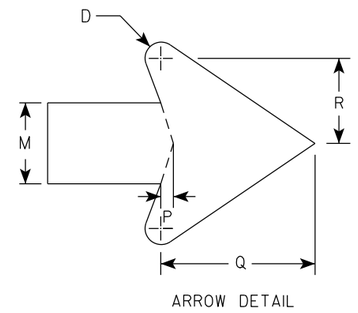
(A)



(A)



(A)



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	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

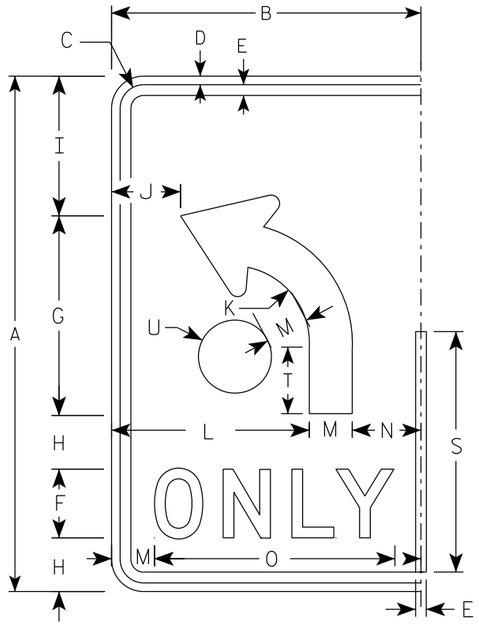
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

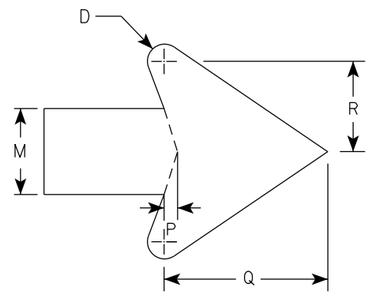
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 328 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



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	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

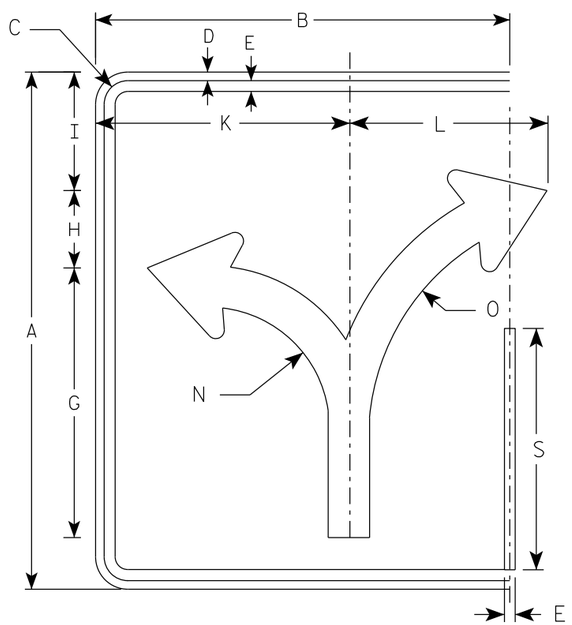
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

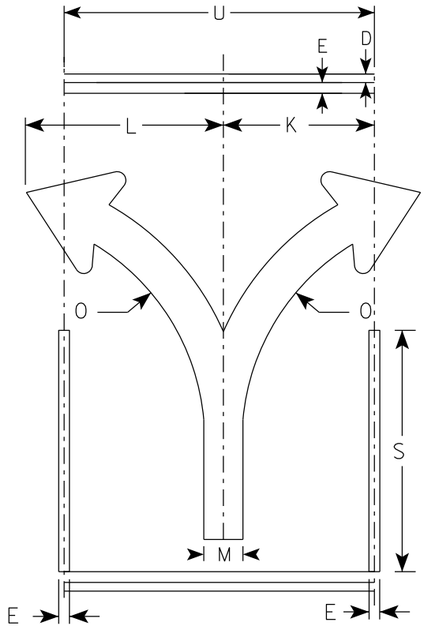
SHEET NO: 329 E

NOTES

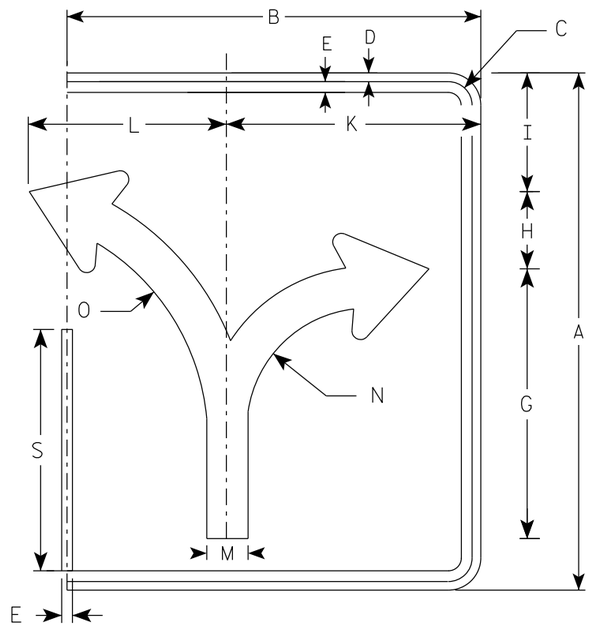
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



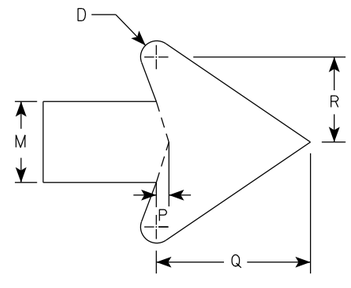
(C)



(C)



(C)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

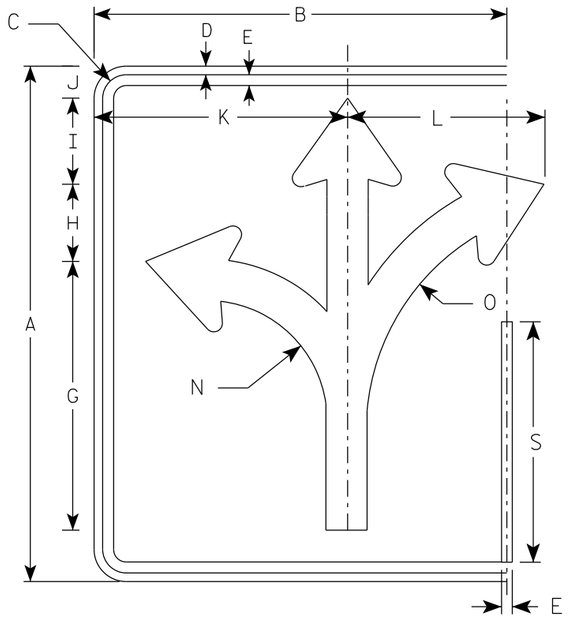
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

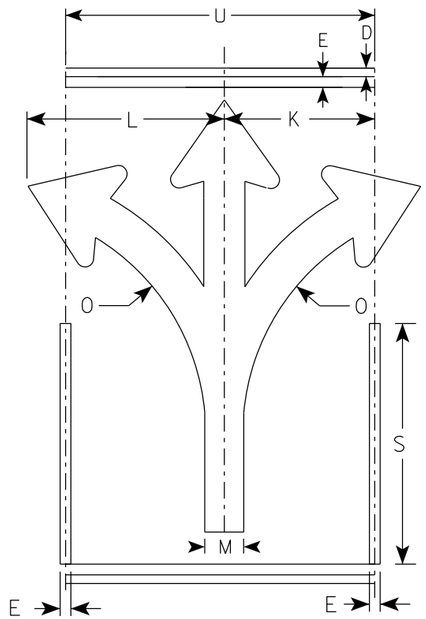
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 330 | E

NOTES

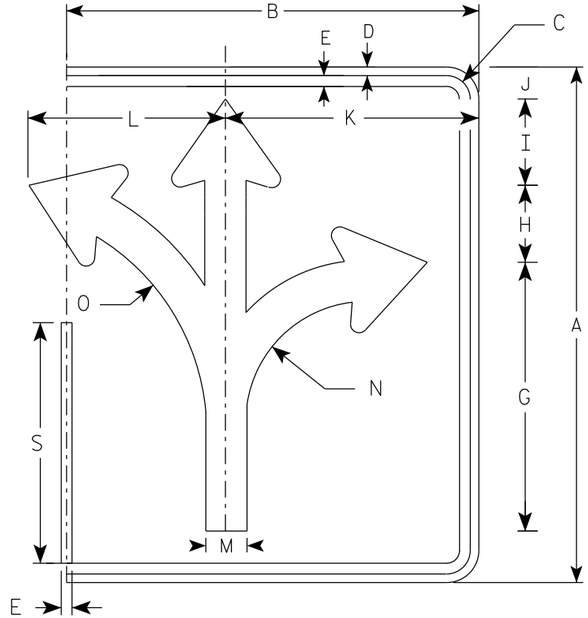
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



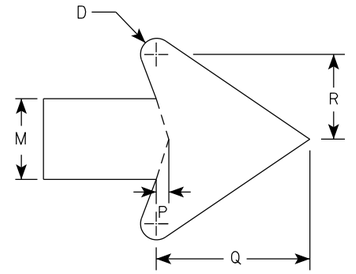
(D)



(D)



(D)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

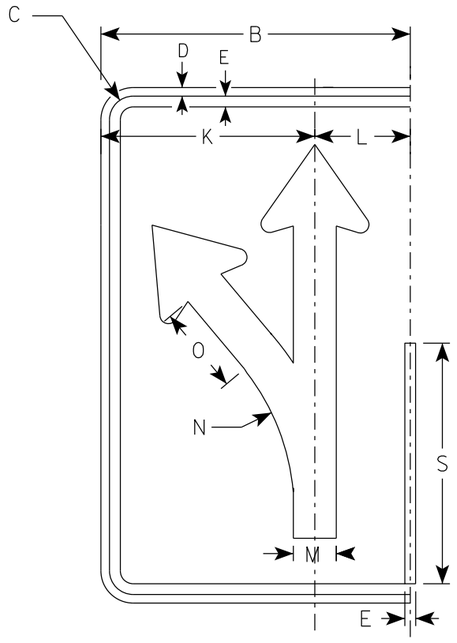
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

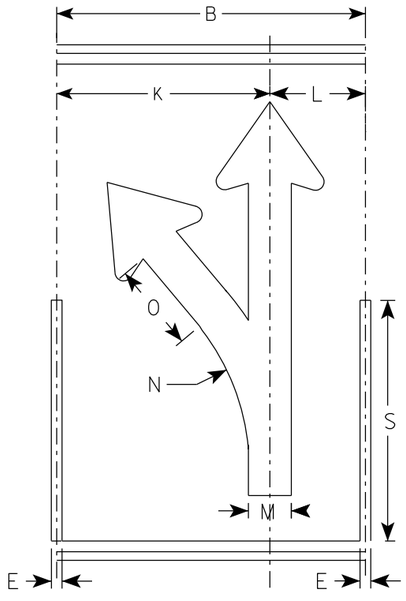
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 331 | E

NOTES

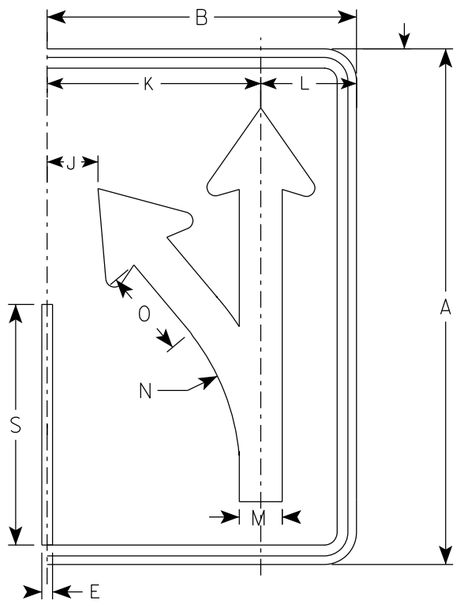
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



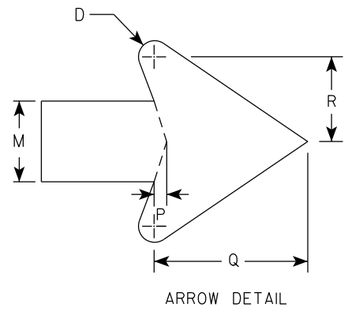
(E)



(E)



(E)



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	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

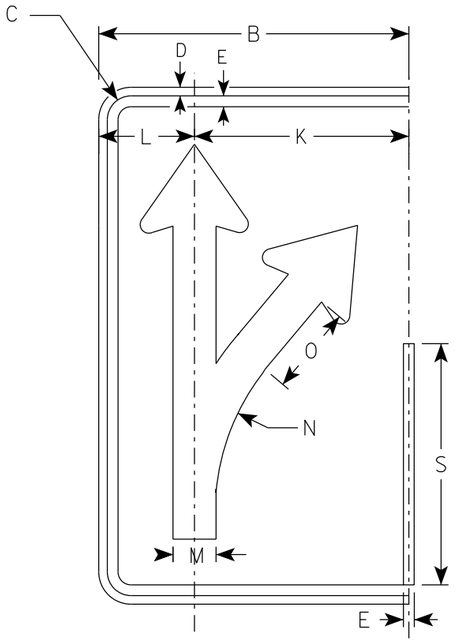
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

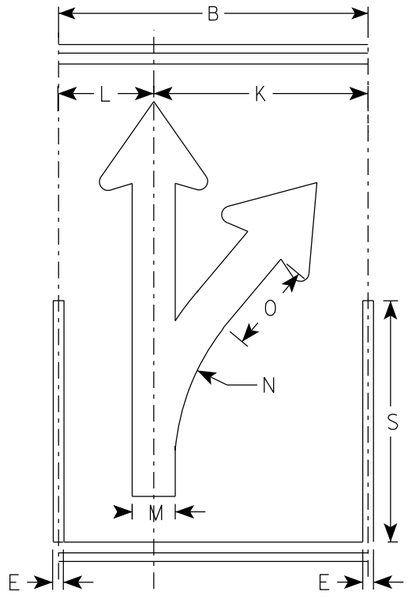
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 332 | E

NOTES

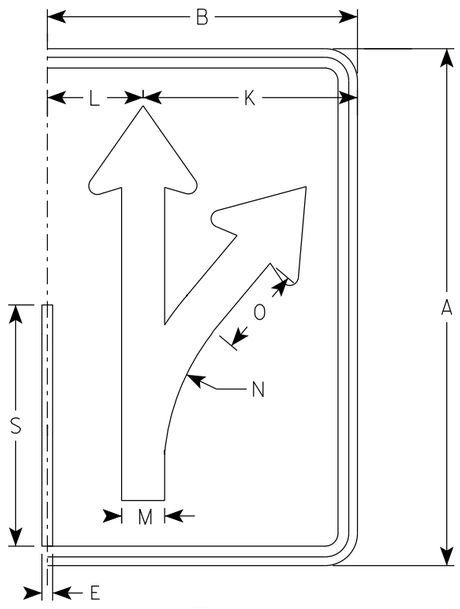
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



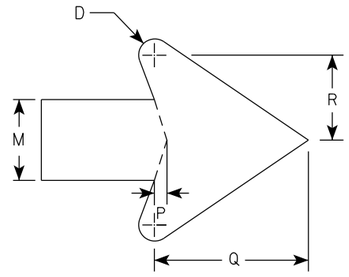
(F)



(F)



(F)



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	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

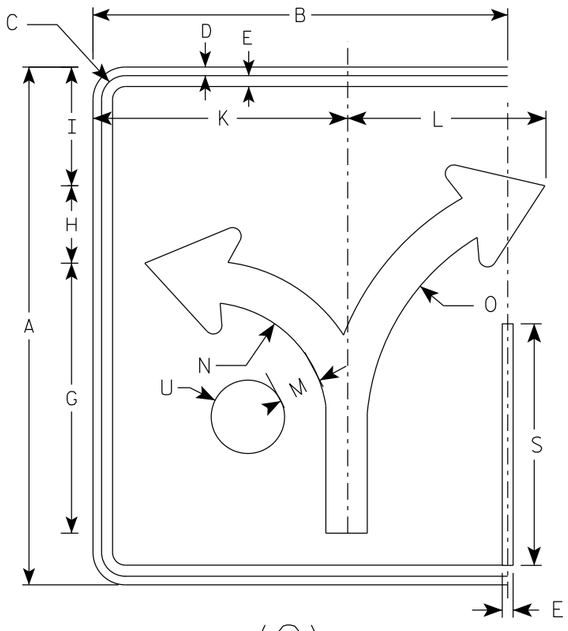
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

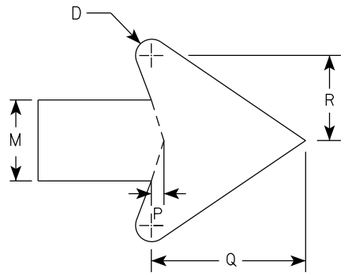
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 333 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



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	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

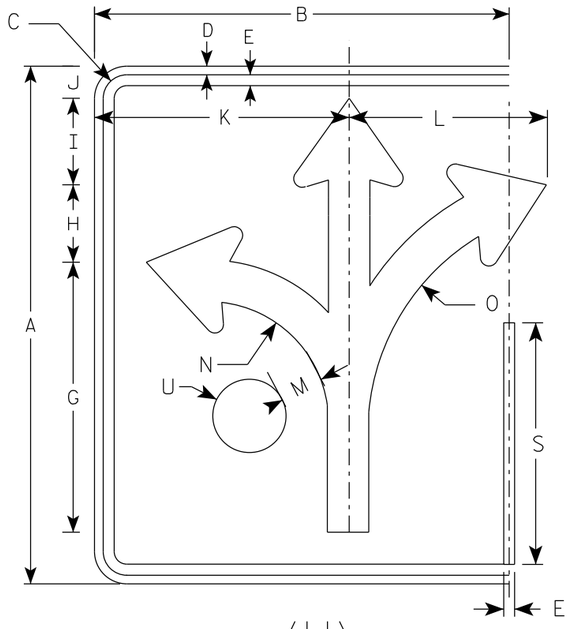
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

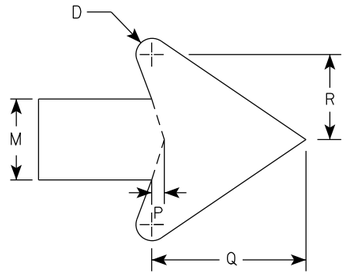
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 334 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



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	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

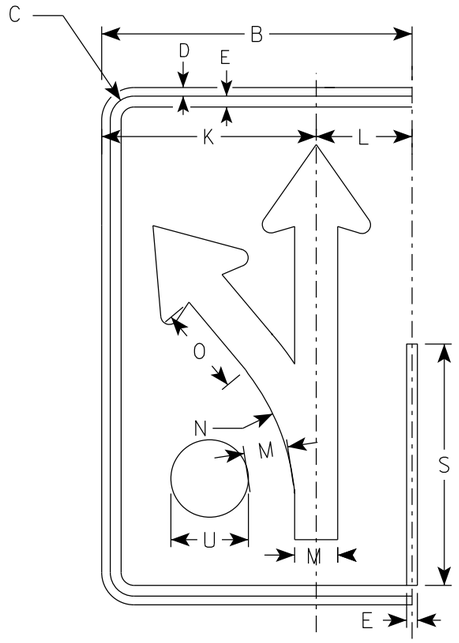
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

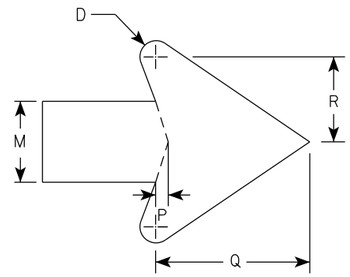
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 335	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



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	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

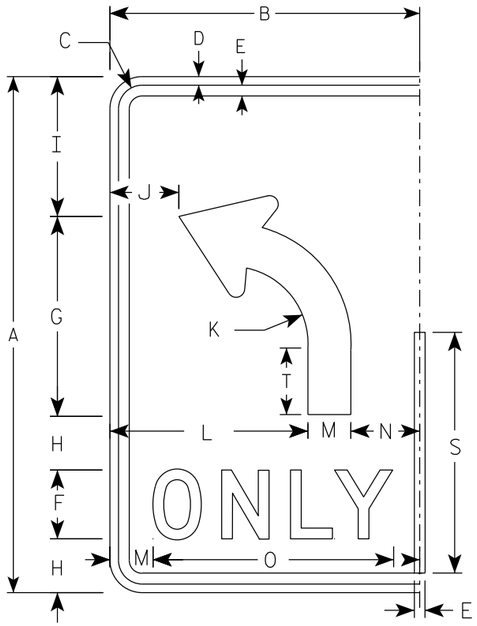
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

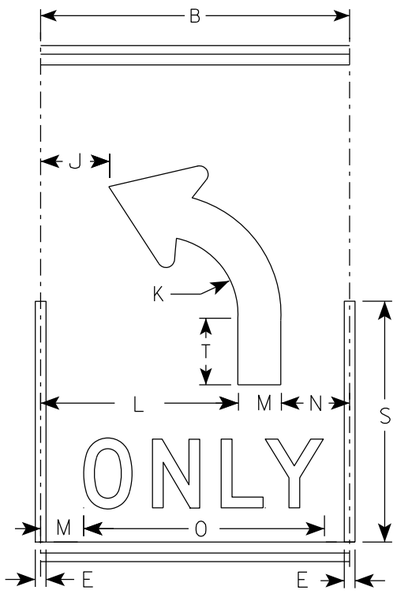
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 336 | E

NOTES

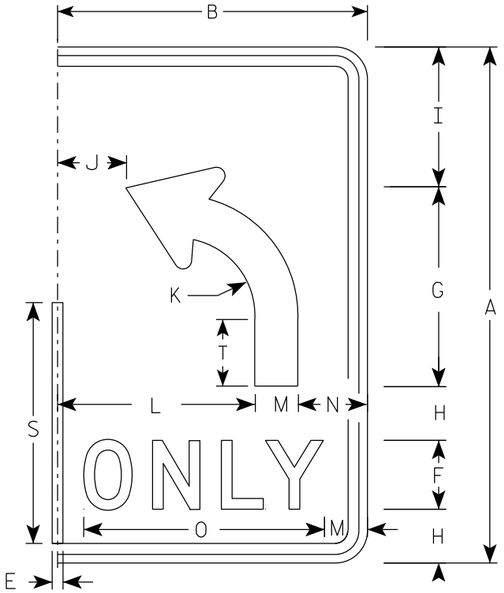
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



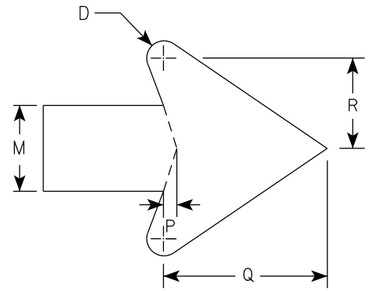
(L)



(L)



(L)



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	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

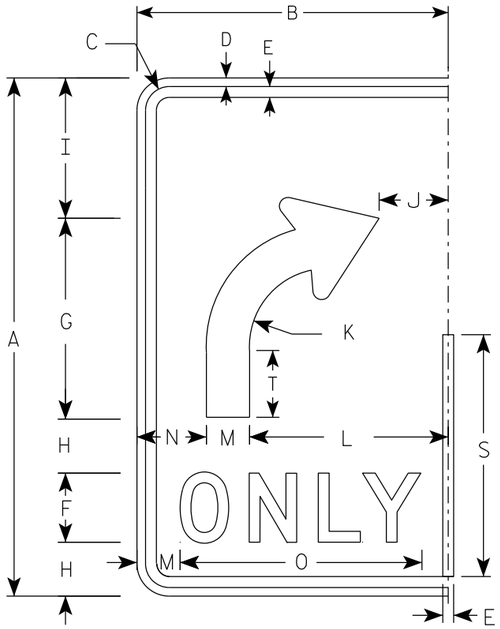
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

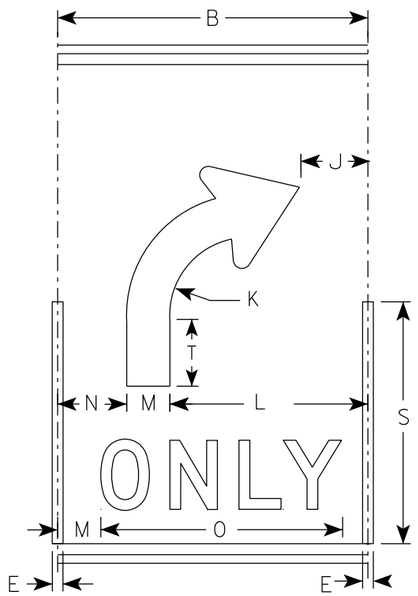
SHEET NO: 337 E

NOTES

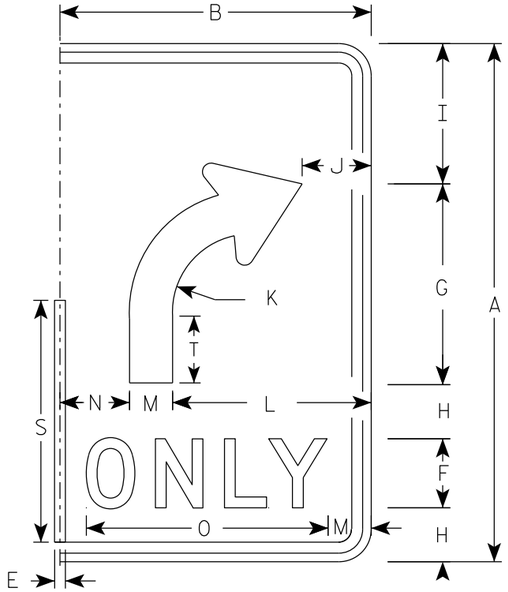
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



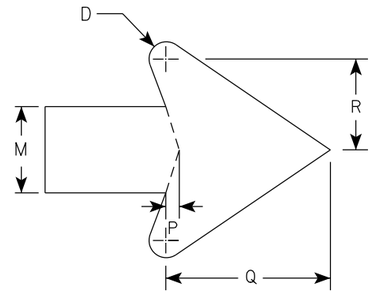
(R)



(R)



(R)



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	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

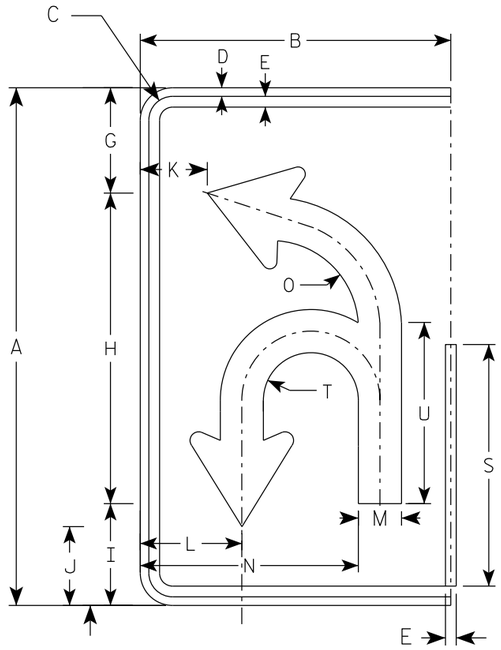
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

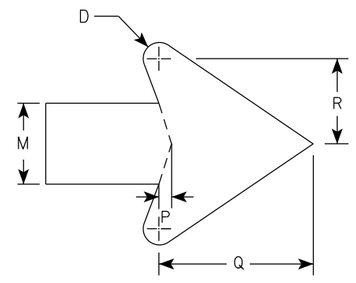
SHEET NO: 338 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



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	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

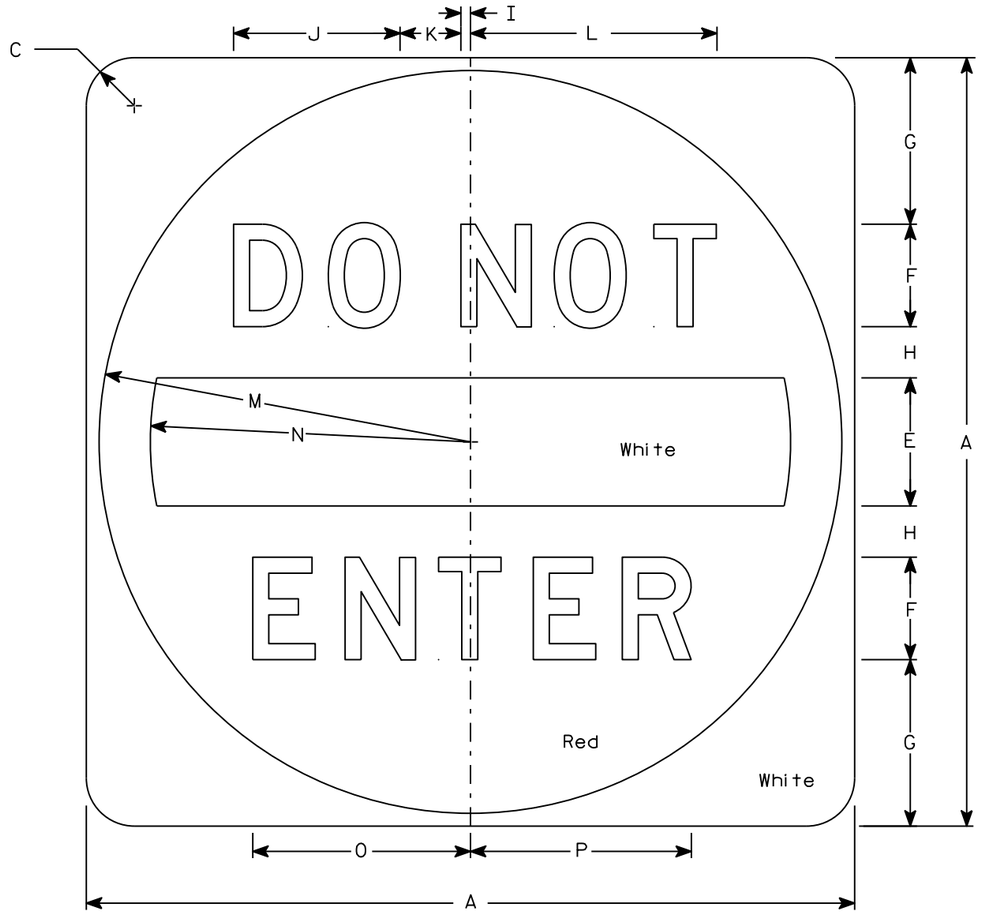
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 339 | 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

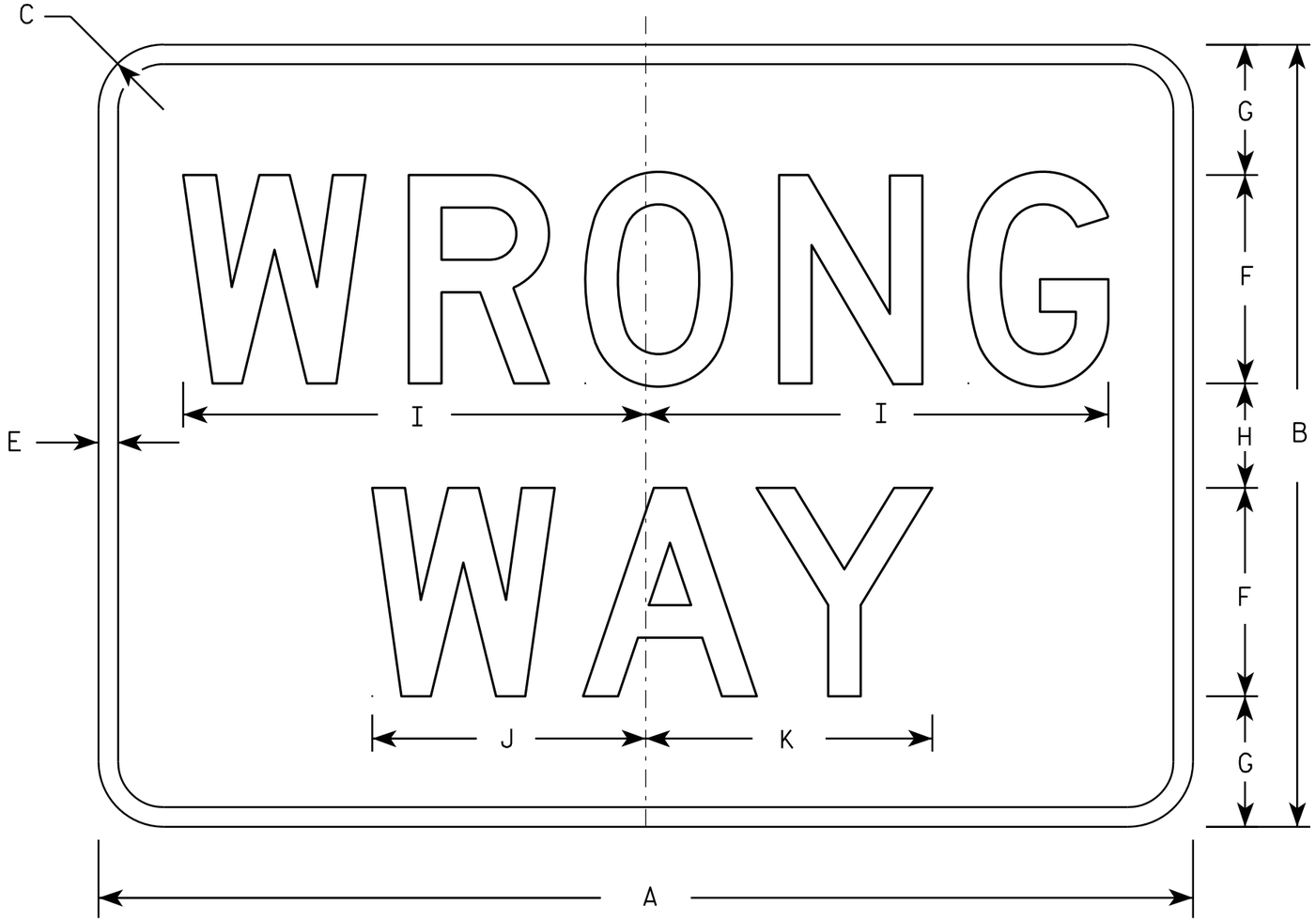
STANDARD SIGN
R5-1

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: 340 | 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

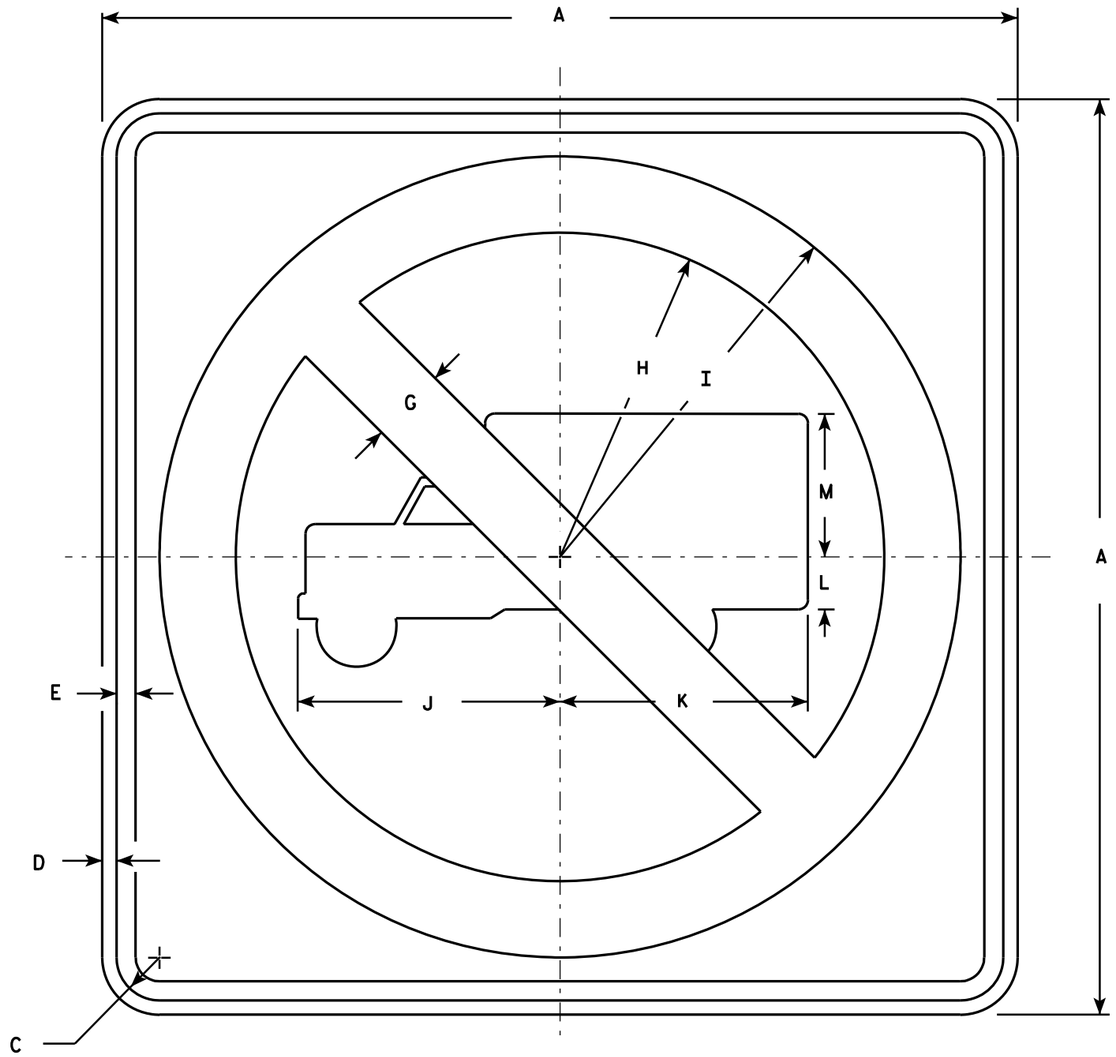
STANDARD SIGN
R5-1A

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: 341 | E



R5-2

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. Circle & Diagonal - Reflective red.
   Truck Symbol & Border - Non-reflective 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																											
2S	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 3/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		1 5/8	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

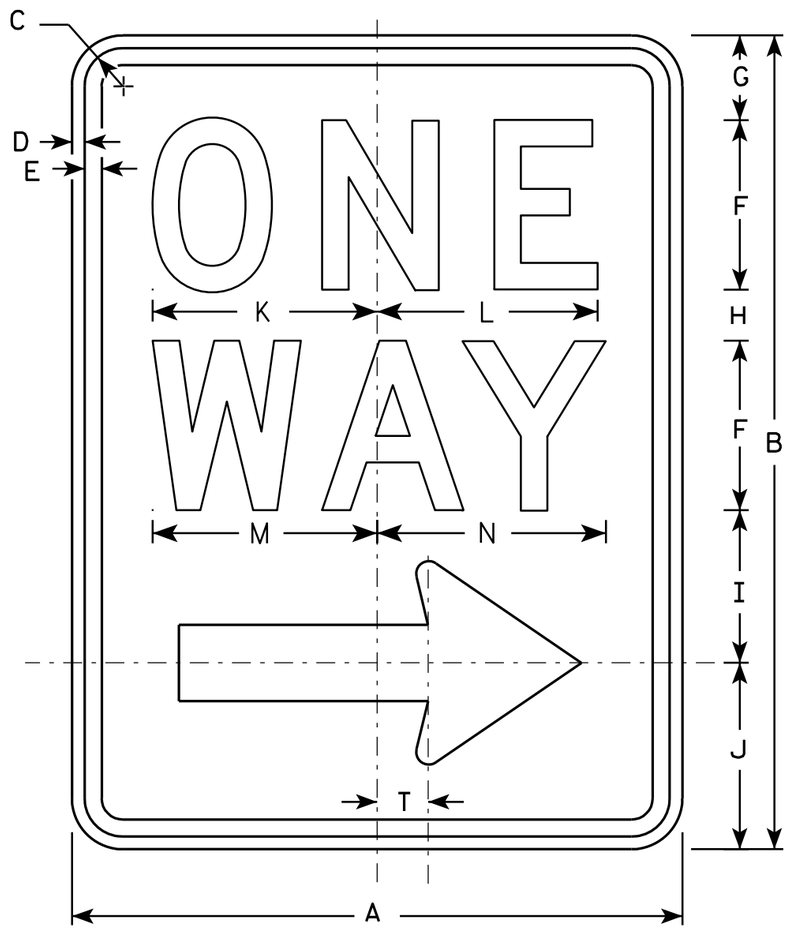
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 342	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R52.DGN PLOT DATE : 29-MAR-2011 11:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

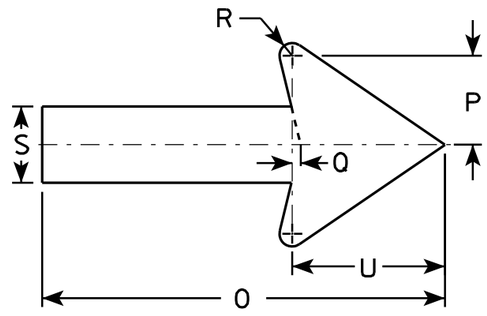
7



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																										

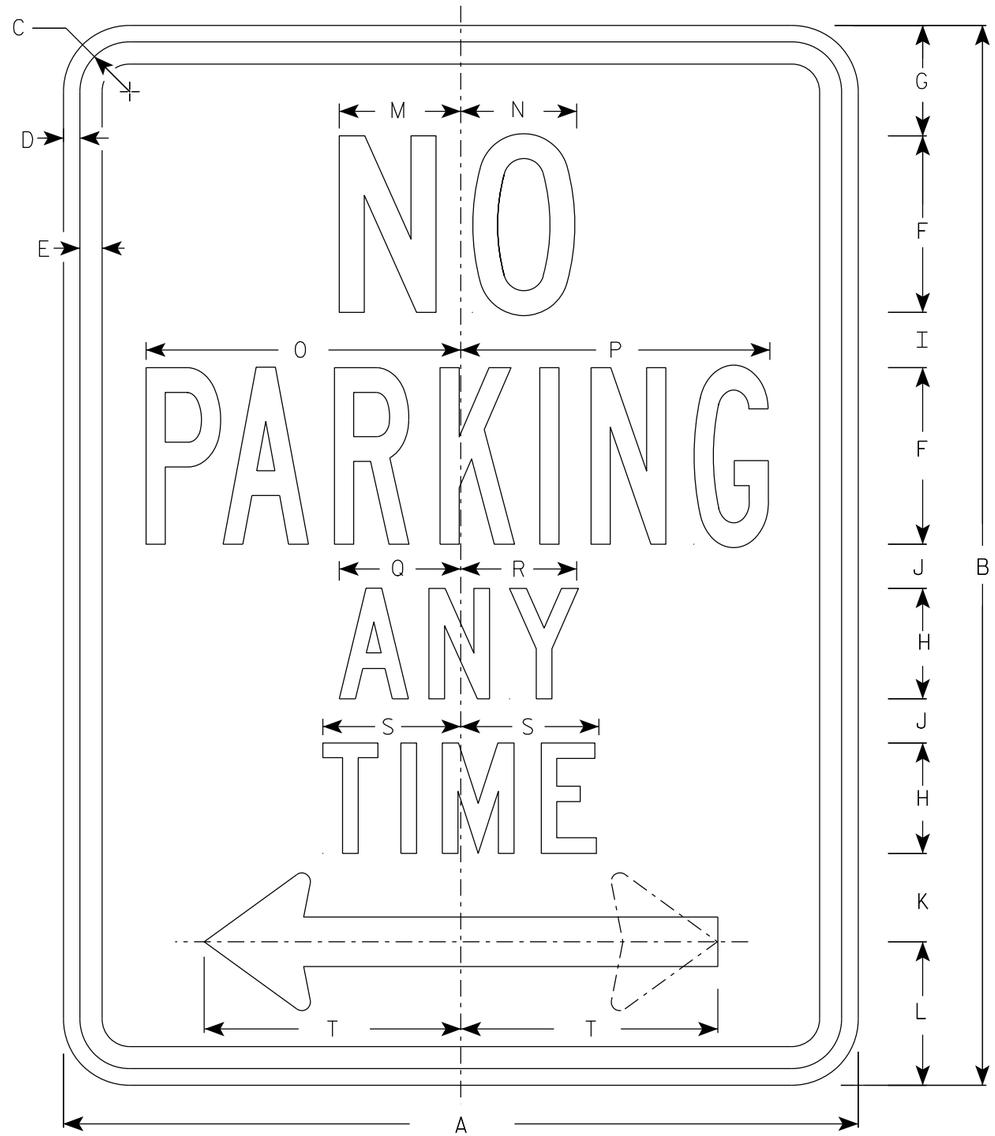
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

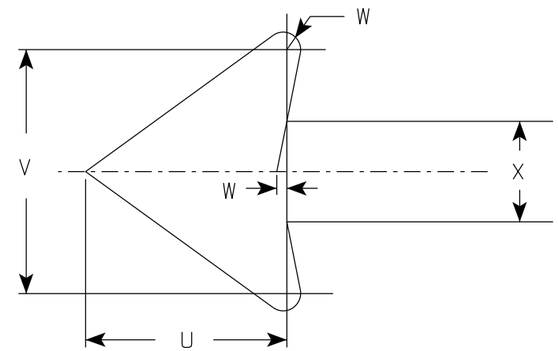
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 343	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

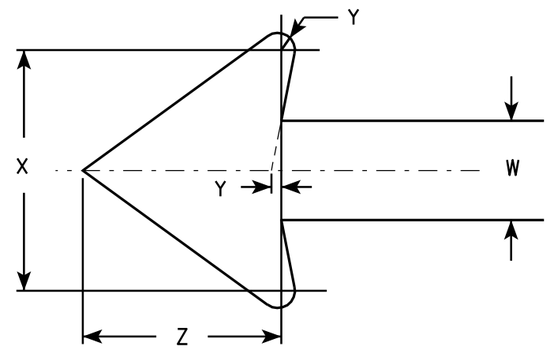
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 344 E



R7-51

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 - Red
3. Message Series - See Note 6
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. R7-51D (double arrow)
   R7-51R (right arrow)
   R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



ARROW DETAIL

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	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	4 7/8	5/8	1 3/4	2 1/2	4 3/8	3 7/8	3/4	1 3/4	1/8	1 1/2	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	5 3/4	1 1/8	1 1/2	3 1/8	5 1/2	5 7/8	1 1/8	2 5/8	1/4	2 1/4	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	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	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	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

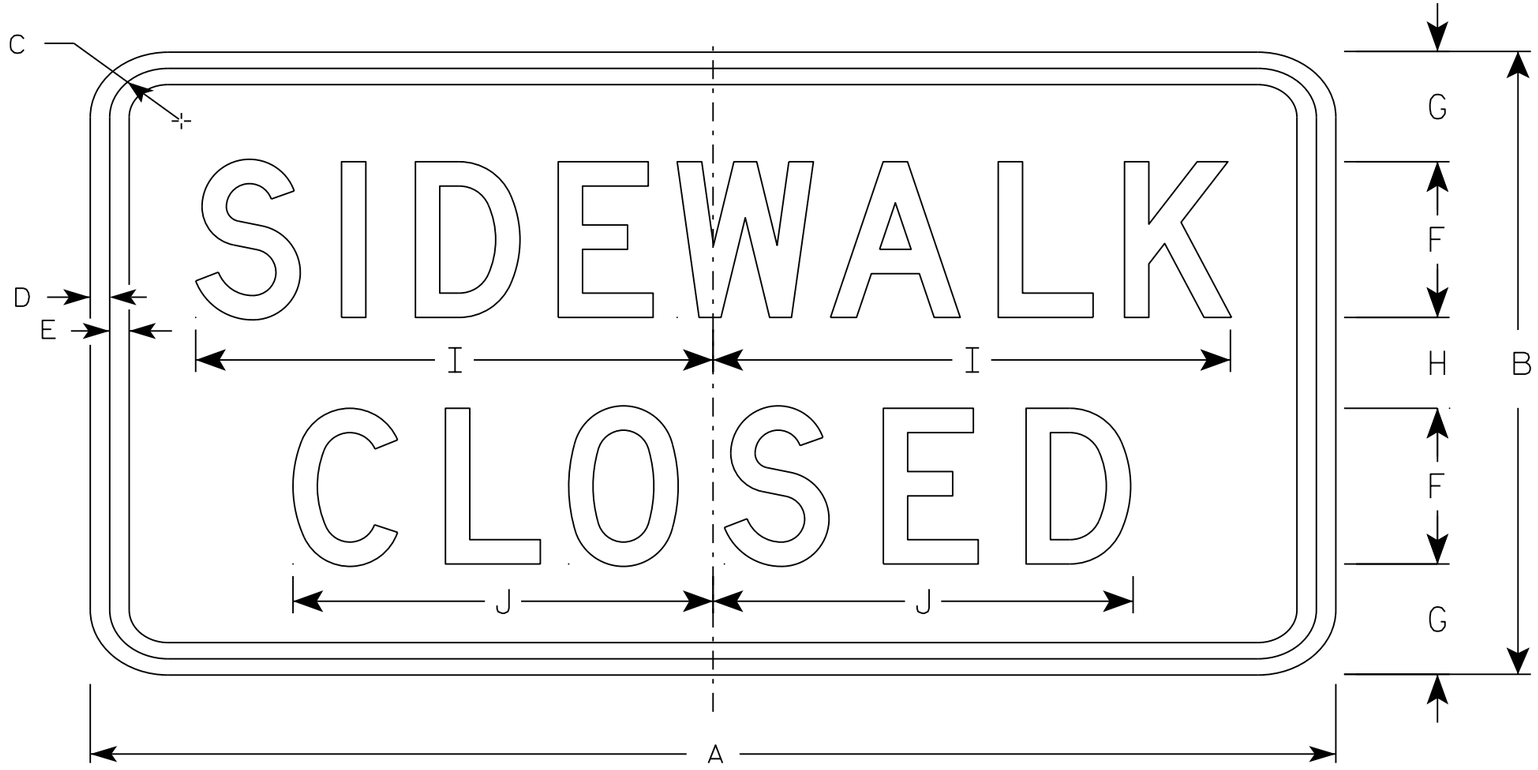
STANDARD SIGN
R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-51.6

PROJECT NO:	HWY:	COUNTY:			SHEET NO: 345	E



R9-9

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
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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

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 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

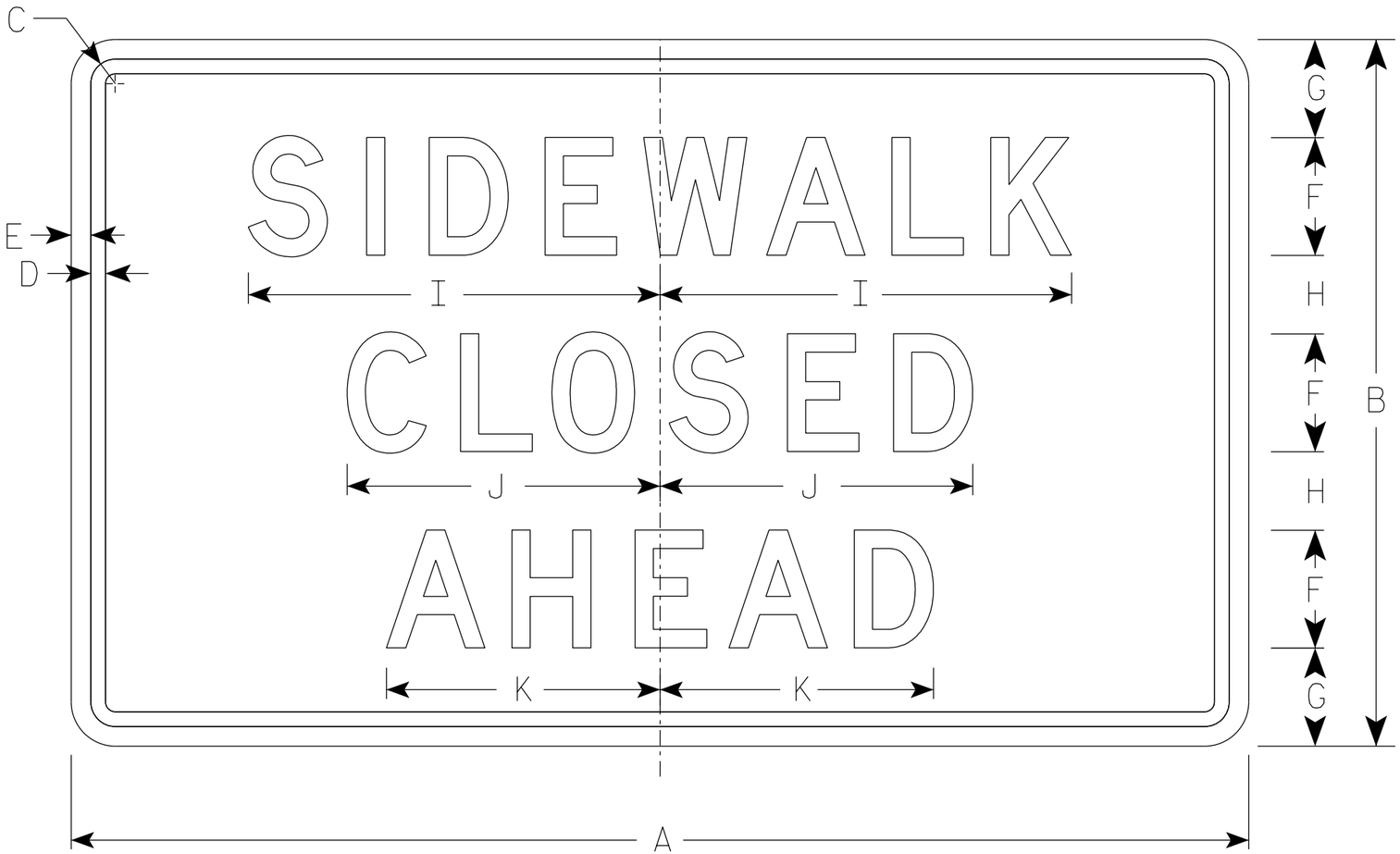
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 346 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-9A

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.

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	18	1 1/8	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
2M	30	18	1 1/8	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
3																											
4																											
5																											

STANDARD SIGN
R9-9A

WISCONSIN DEPT OF TRANSPORTATION

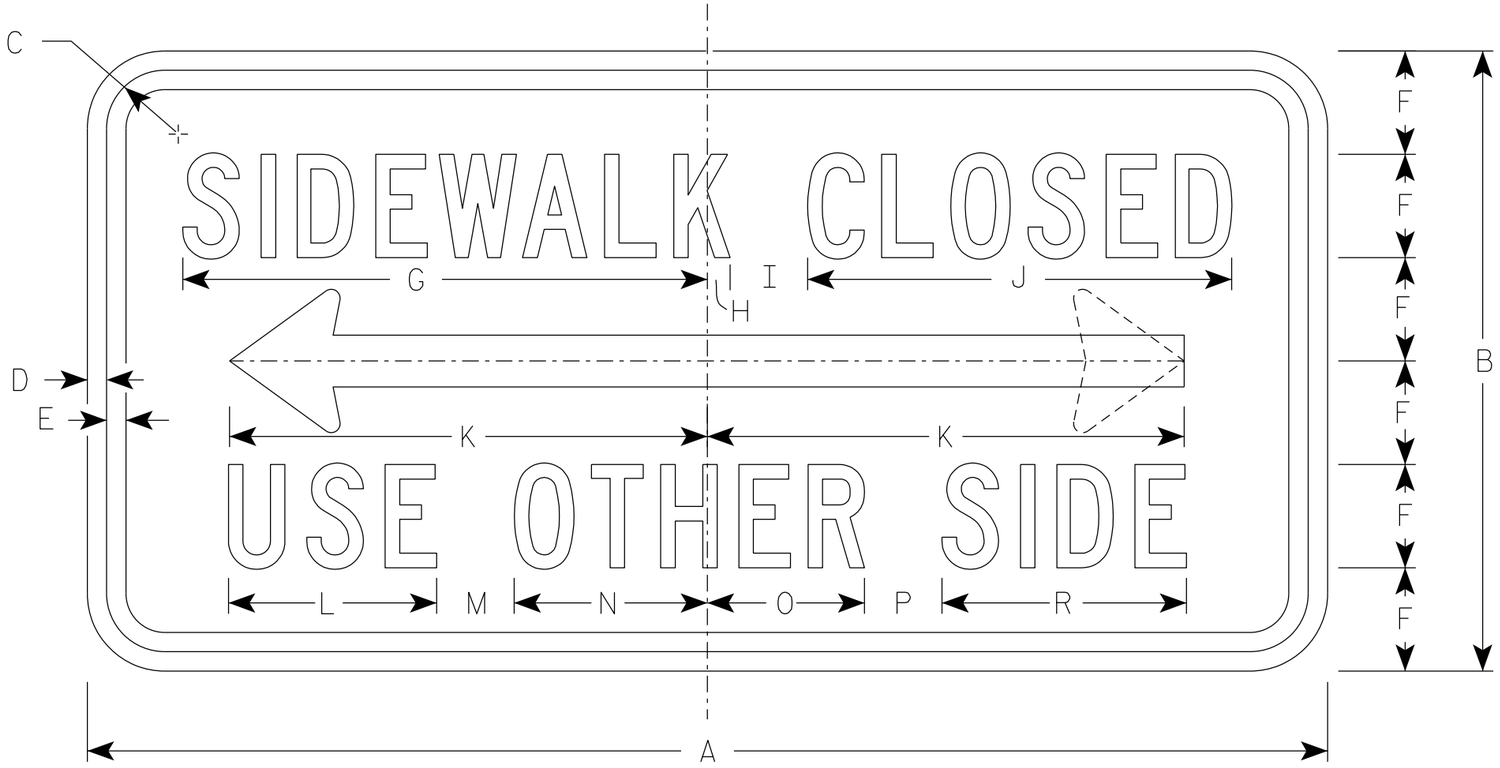
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/31/2020 PLATE NO. R9-9A.1

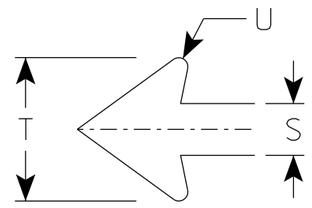
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 347 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   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. Use Size 2 for sidewalks. Use Size 3 for paths and trails.



R9-10



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	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8						2.0
2M	24	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8						2.0
3	30	15	1 1/8	3/8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	5	2	4 5/8	3 3/4	2		5 7/8	1 1/4	3 5/8	1/4						3.125
4																											
5																											

STANDARD SIGN
R9-10

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/7/2020 PLATE NO. R9-10.7

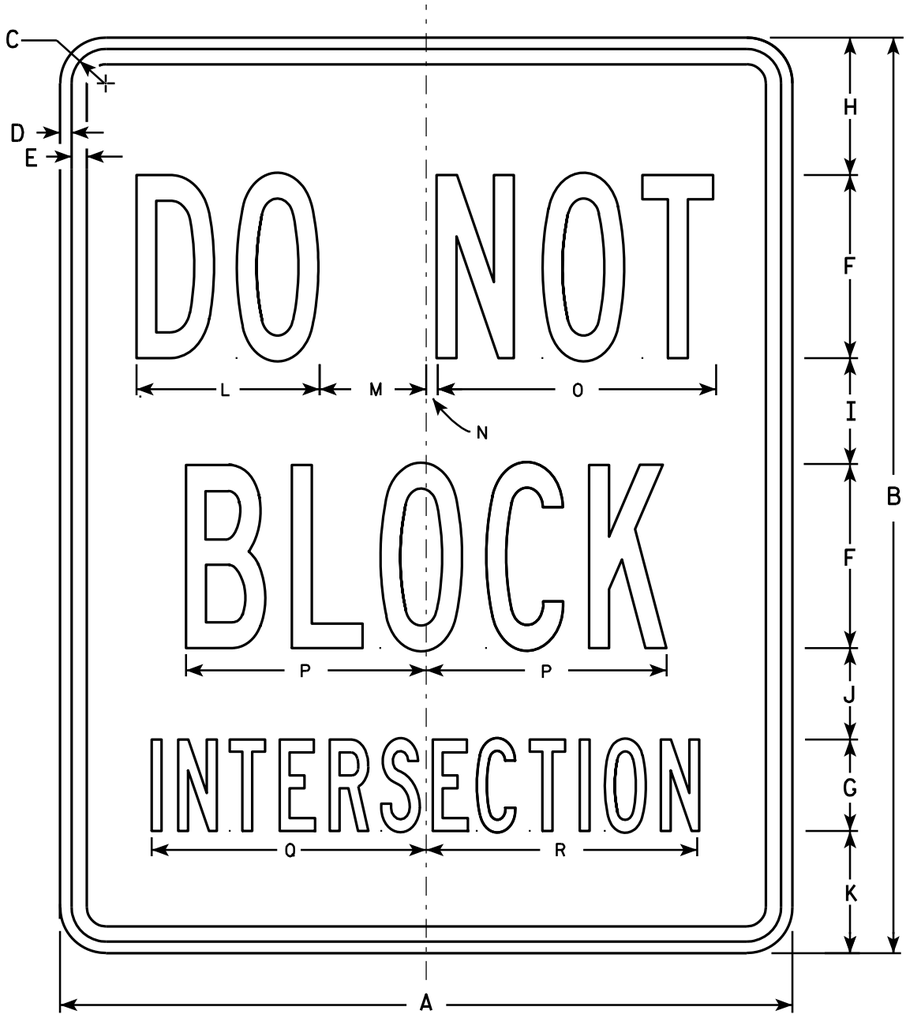
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 348	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R910.dgn PLOT DATE : 07-APRIL-2020 PLOT BY : dotc4c PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

7

7



R10-7

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 - 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																											
2S	24	30	1 1/8	3/8	1/2	6	3	4 1/2	3 1/2	3	4	6	3 1/2	3/8	9 1/8	7 7/8	9	8 7/8									5.0
2M	24	30	1 1/8	3/8	1/2	6	3	4 1/2	3 1/2	3	4	6	3 1/2	3/8	9 1/8	7 7/8	9	8 7/8									5.0
3	36	48	1 3/8	1/2	5/8	10	5	7	5 1/4	4 1/2	6 1/4	10	5 5/8	1/2	15 1/8	13 1/8	15	14 7/8									12.0
4																											
5																											

STANDARD SIGN
R10-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-7.5

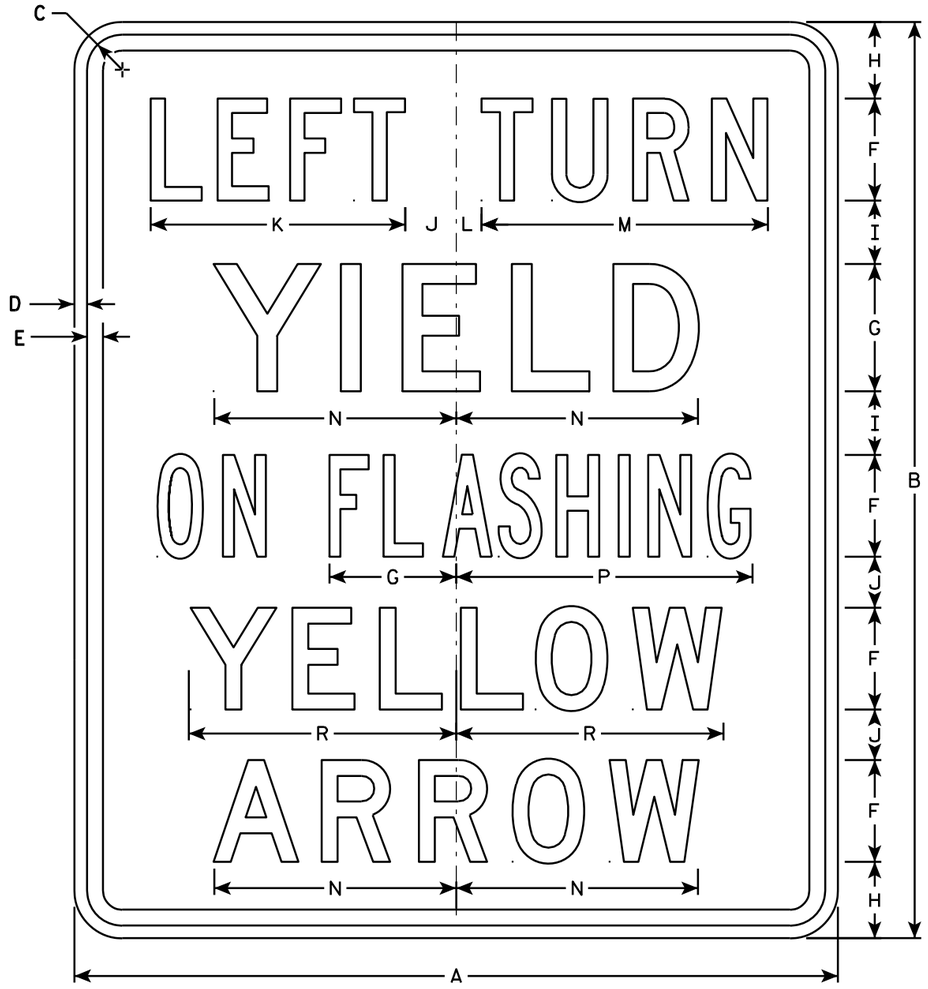
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 349	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R107.DGN PLOT DATE : 05-APR-2011 09:44 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.965868:1.000000

WISDOT/CADDS SHEET 42

7

7

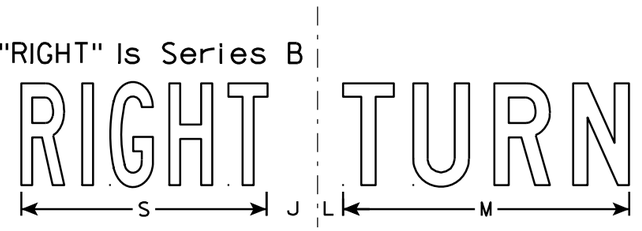


R10-50L

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, 4 and 5 are Series D.
   Line 3 is Series B.

"RIGHT" Is Series B



R10-50R

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	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
2M	30	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
3																											
4																											
5																											

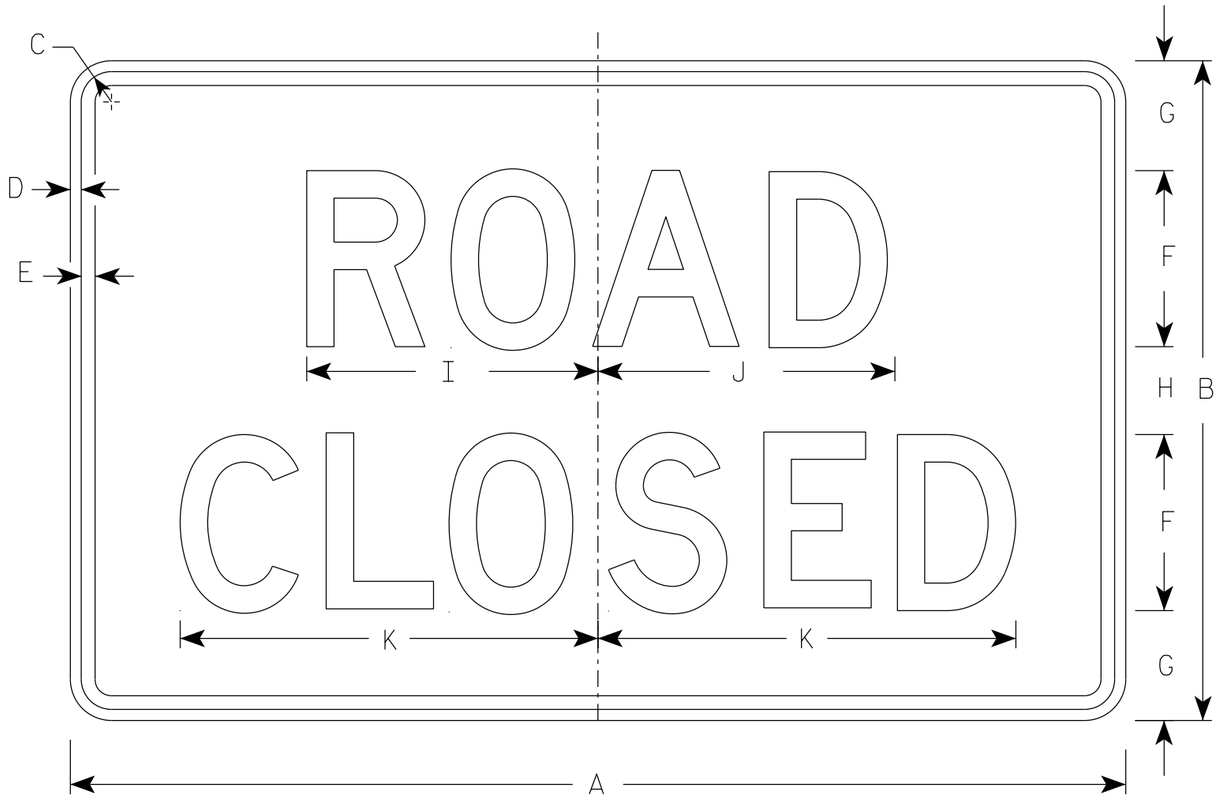
STANDARD SIGN
R10-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/11/13 PLATE NO. R10-50.2

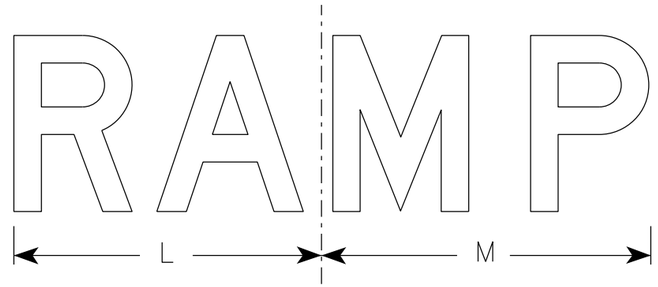
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 350	E



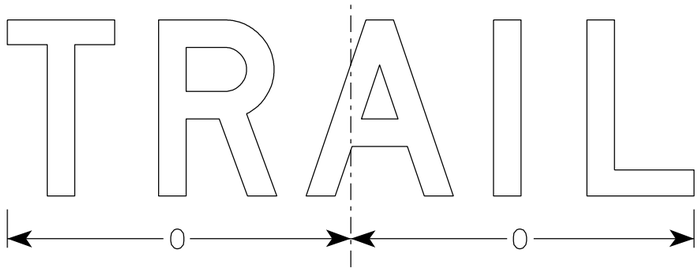
R11-2

NOTES

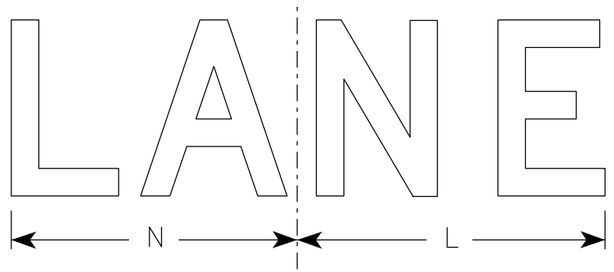
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the 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

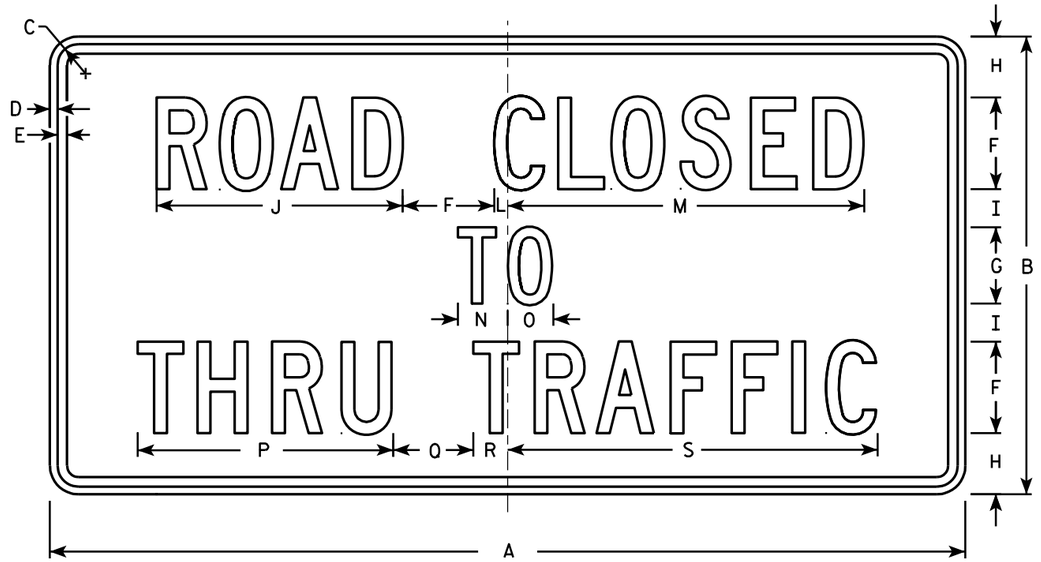
STANDARD SIGN
R11-2

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: 351 E



R11-4

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 - 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																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

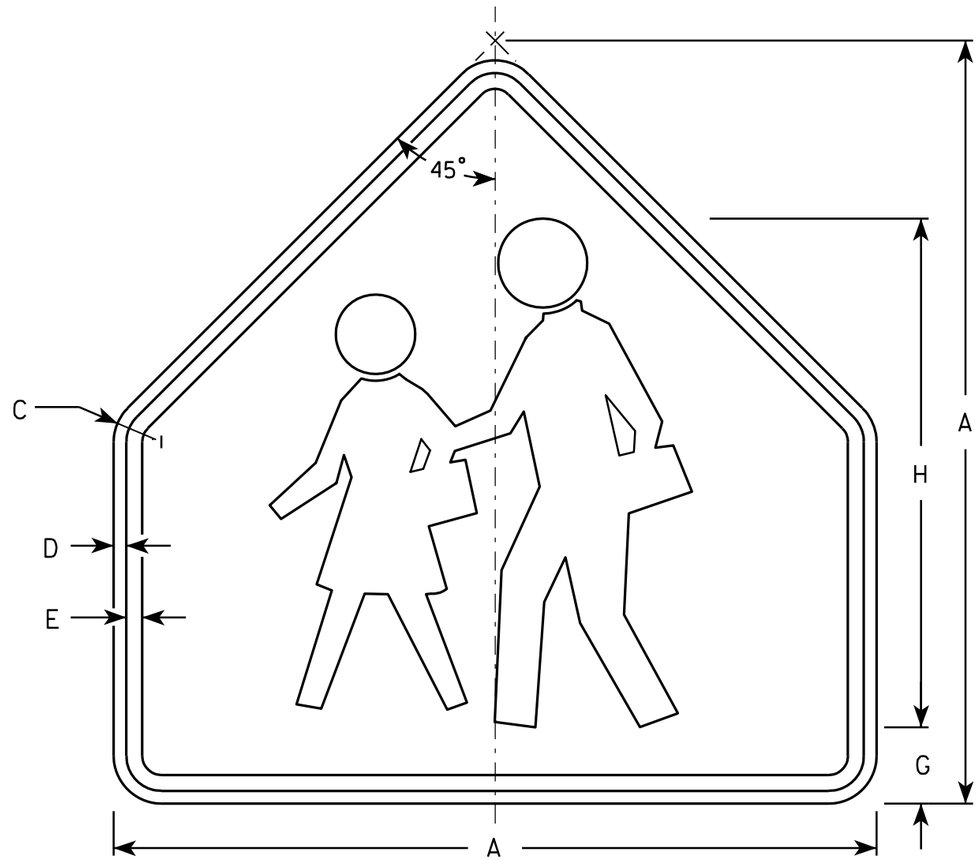
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 352 | E



S1-1

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-Green
   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	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

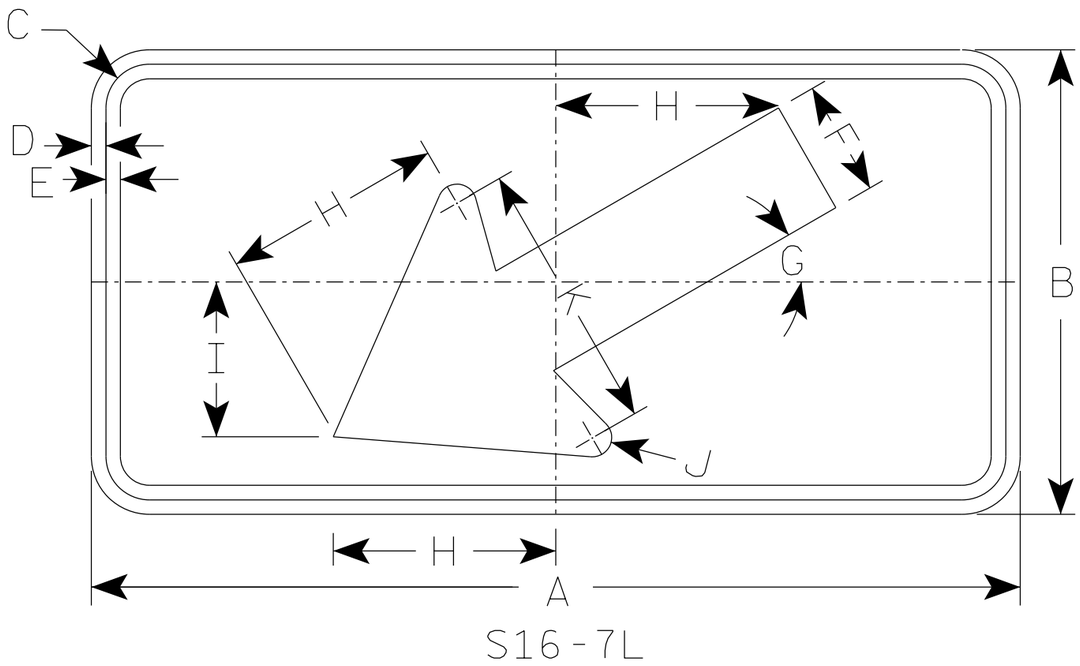
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 353	E



S16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow-Green
   Message - Black
3. S16-7R are the same as S16-7L 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	24	12	1 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
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																											

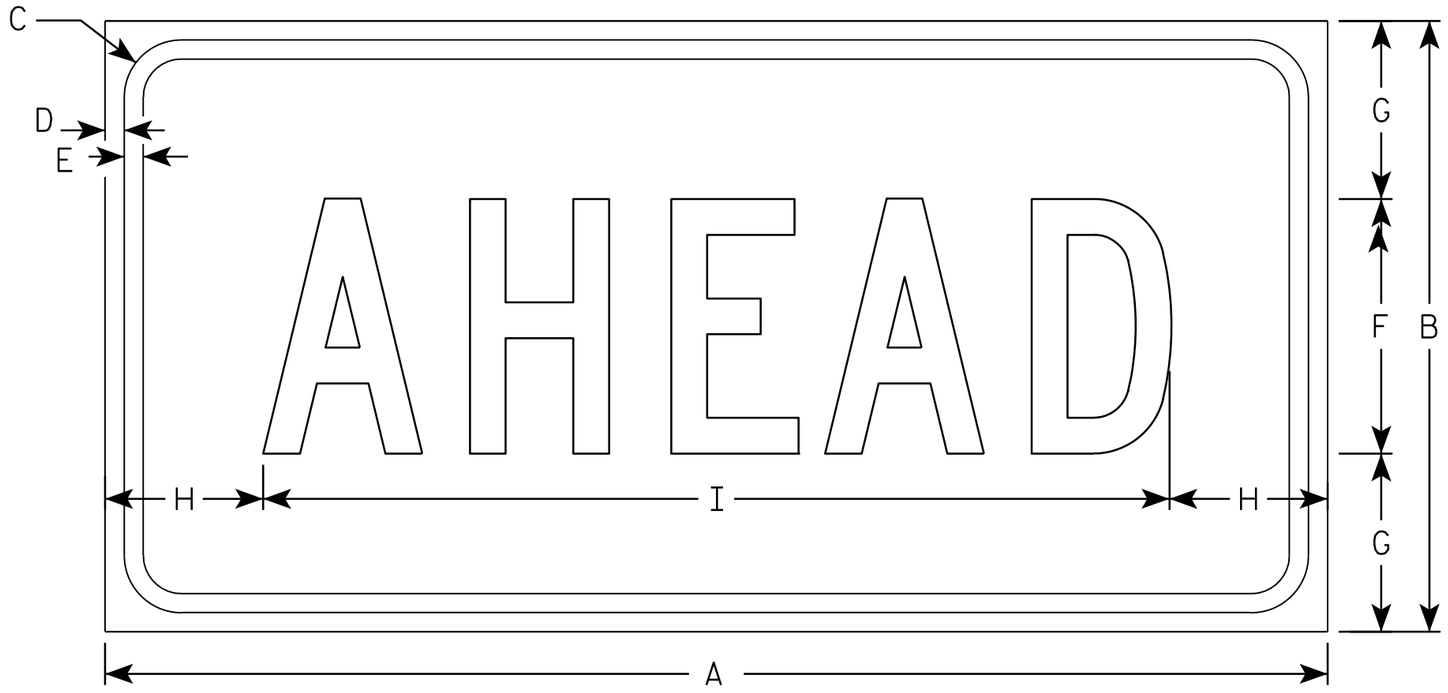
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. S16-7.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 354 E



S16-9P

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-Green
   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.

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	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
S16-9P

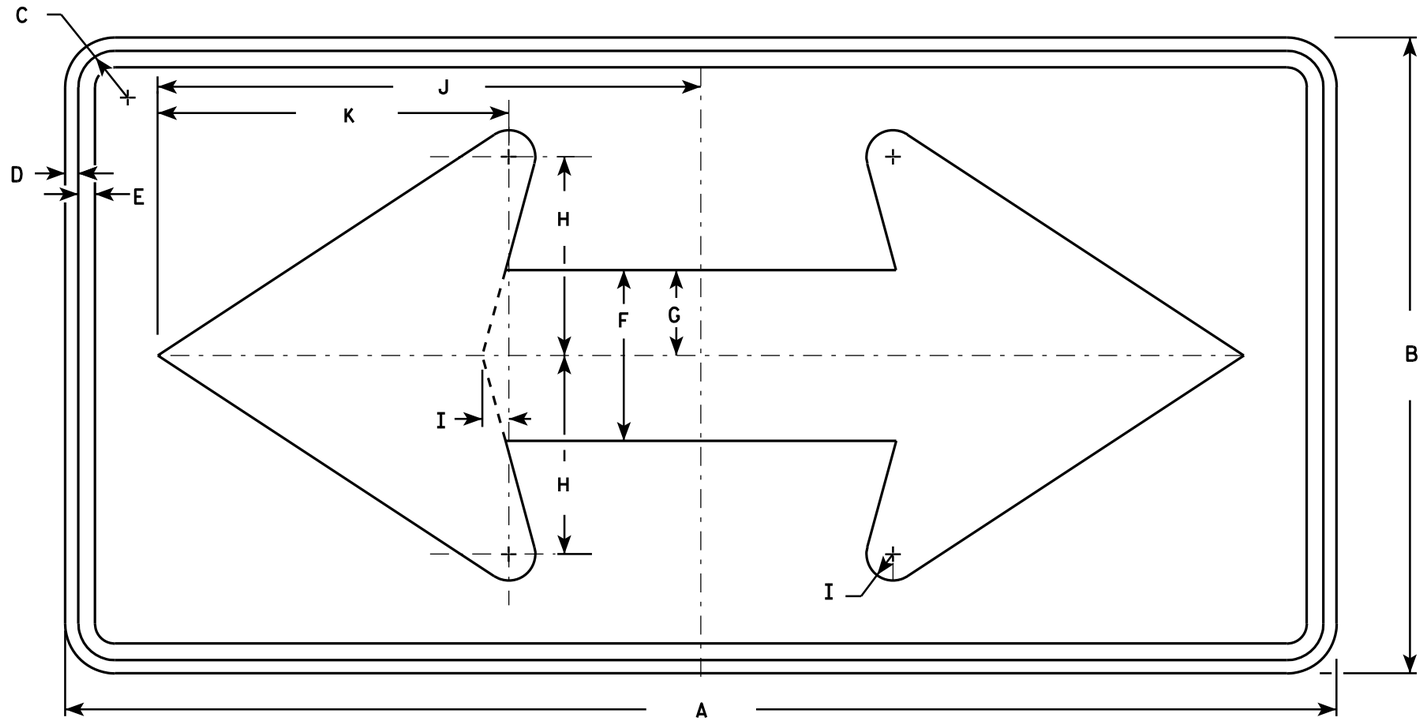
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 355 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\S169P.dgn PLOT DATE : 22-JUL-2013 10:32 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 2.977140:1.000000



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

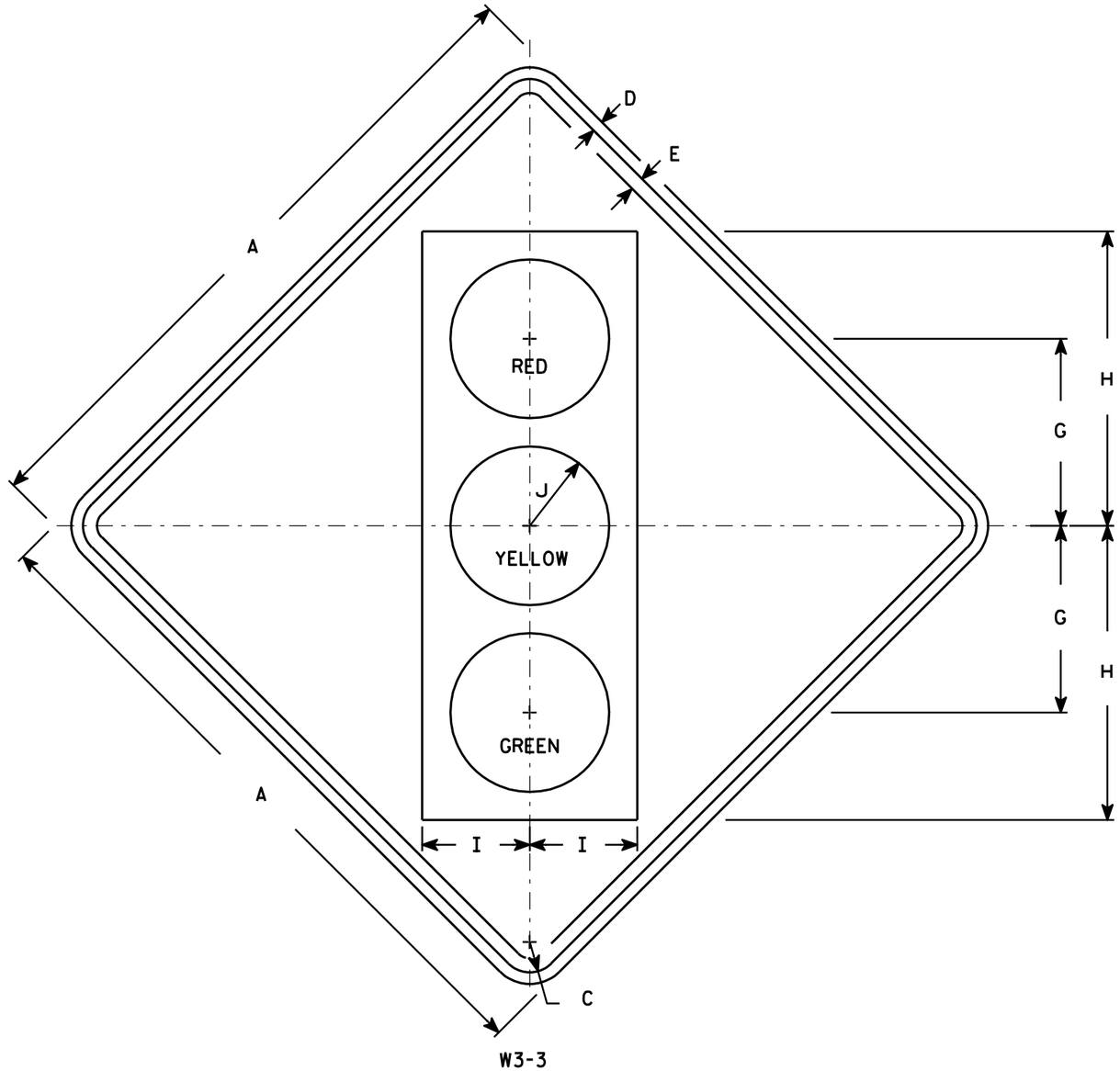
STANDARD SIGN
W1-7

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: 356 | 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

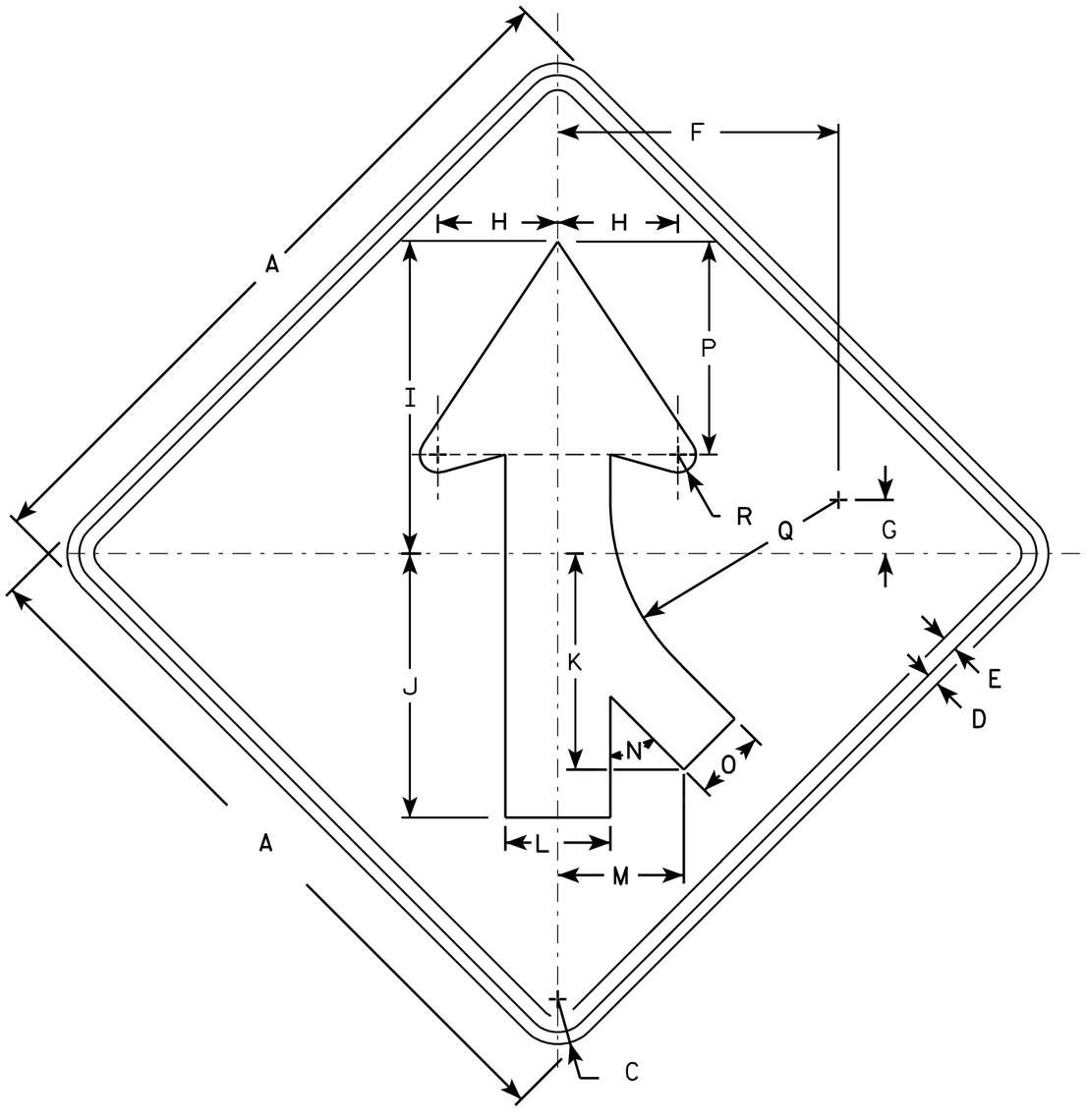
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 357 | E

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

7

7



W4-1 R

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. W4-1L is the same as W4-1R 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	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

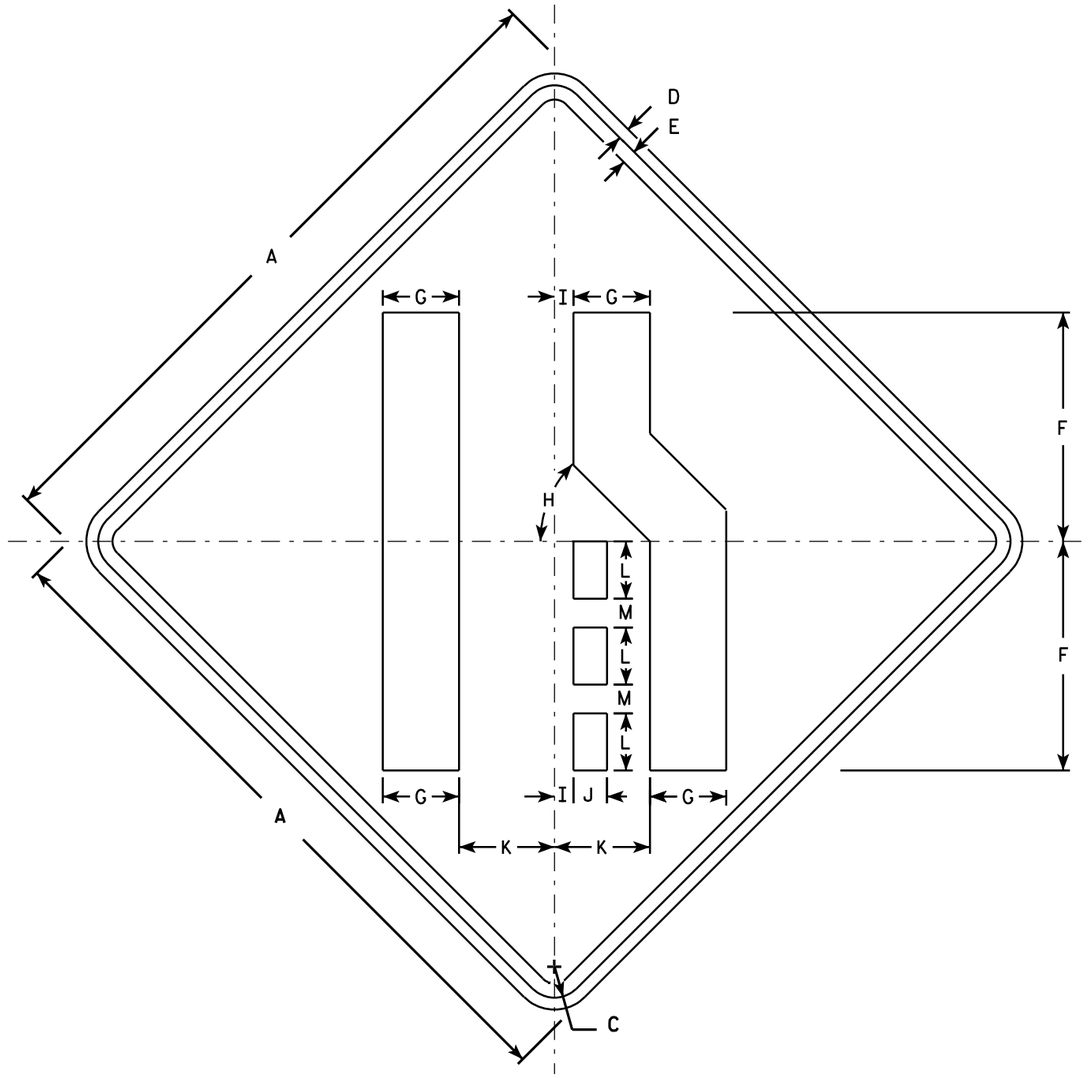
STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 358	E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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. W4-2L is the same as W4-2R 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	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
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
W4-2

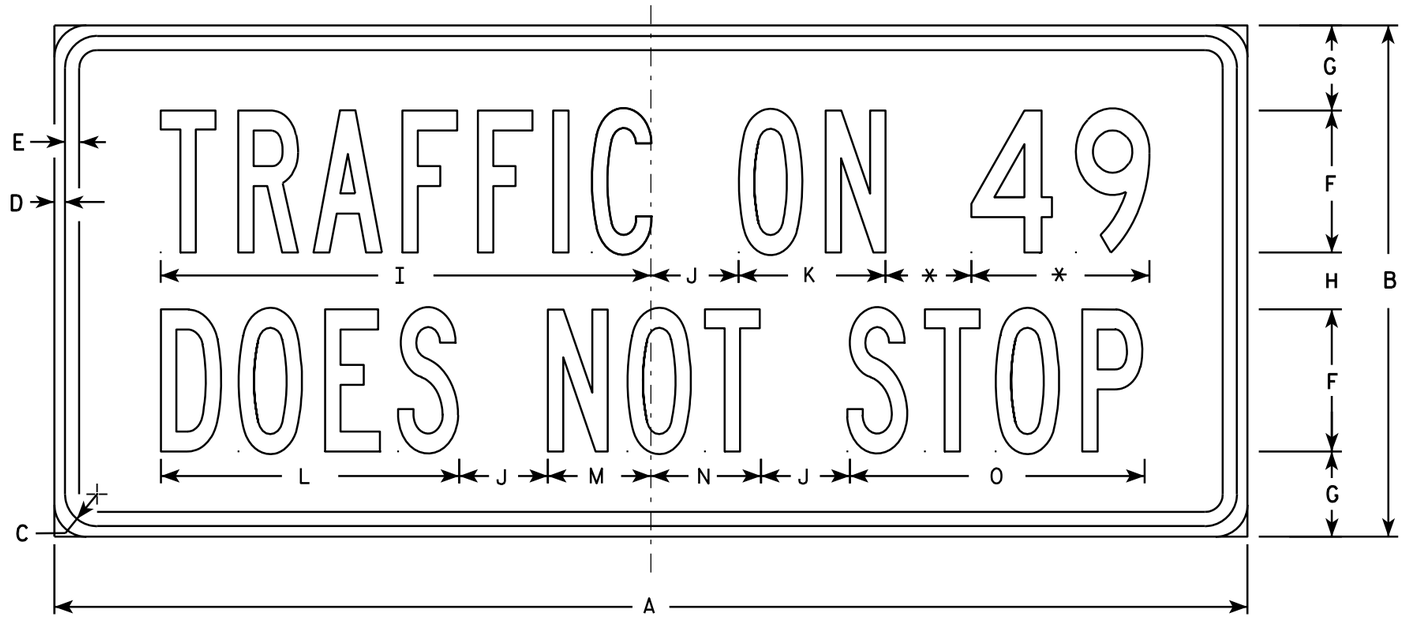
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 359 E



W4-4C

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. Message Series - B (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. Highway Number usually Series D. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* VARIES

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	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	13 7/8	2 3/8	4 1/4	8 3/8	3 1/8	3 1/8	8 3/8												3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	17 1/4	3 1/8	5 1/8	10 1/2	3 7/8	3 7/8	10 3/8												5.25
5																											

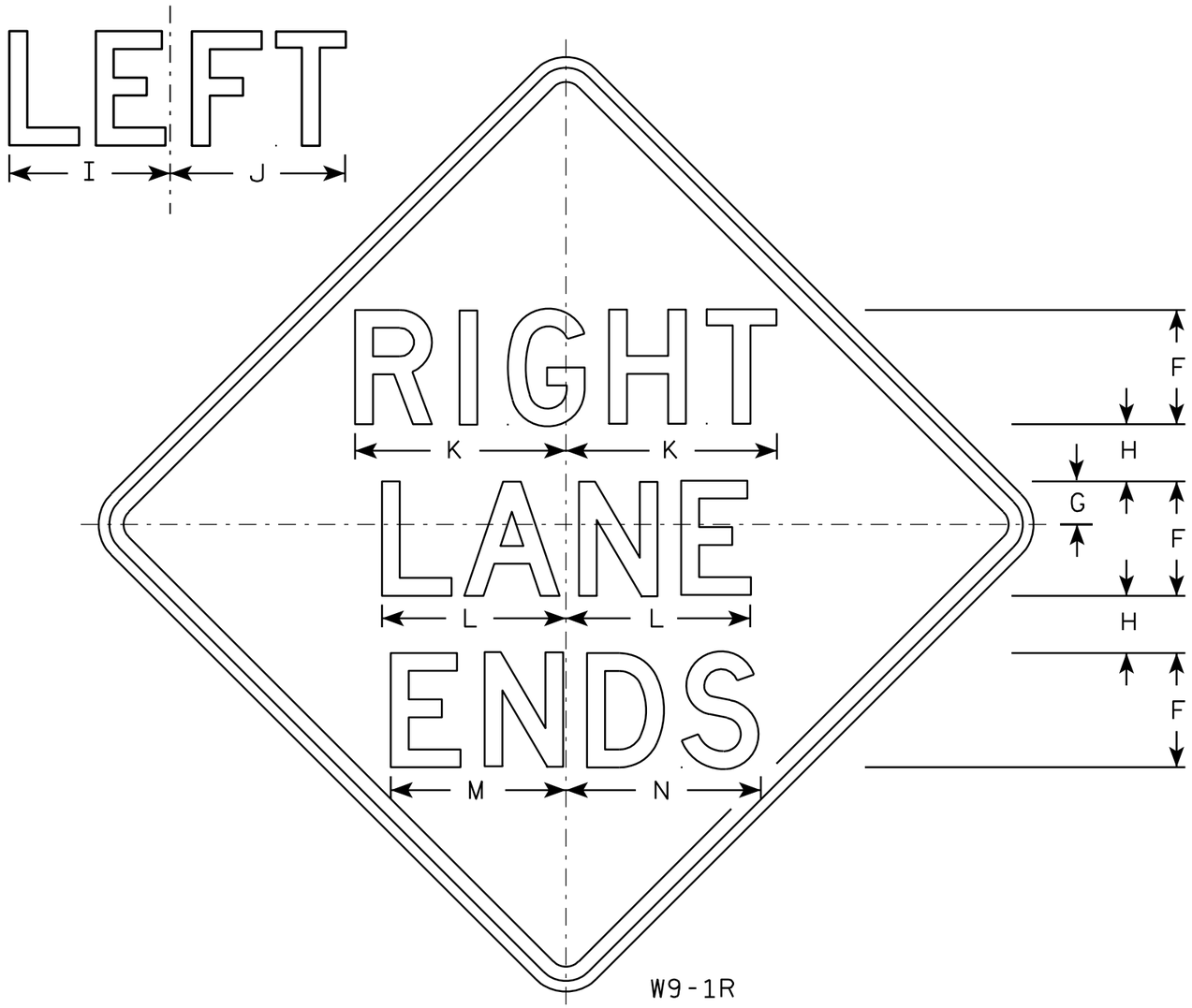
STANDARD SIGN
W4-4C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 360 | E



W9-1R

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. 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. W9-1L same as W9-1R except the word Left replaces 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	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

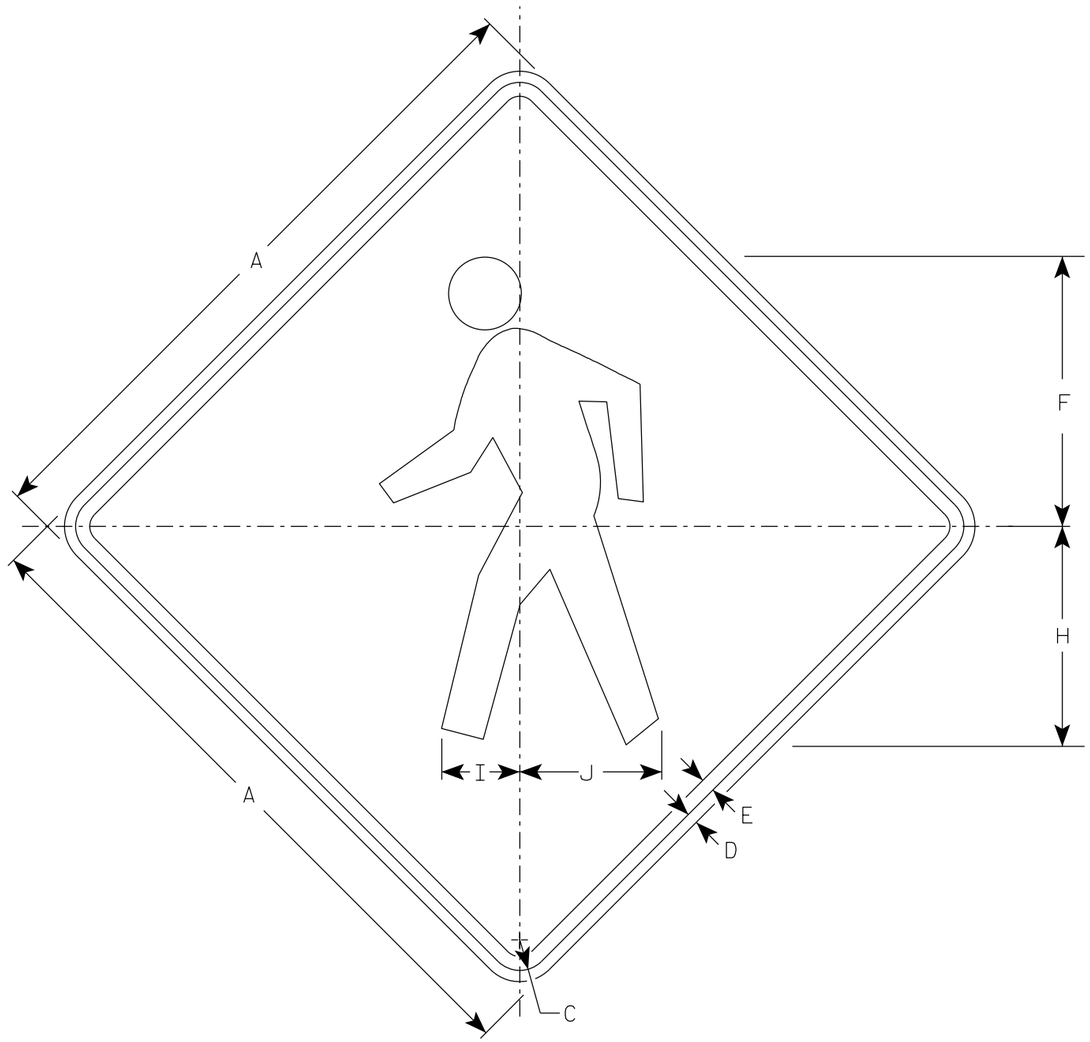
DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

SHEET NO: 361 E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W11-2

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	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																											

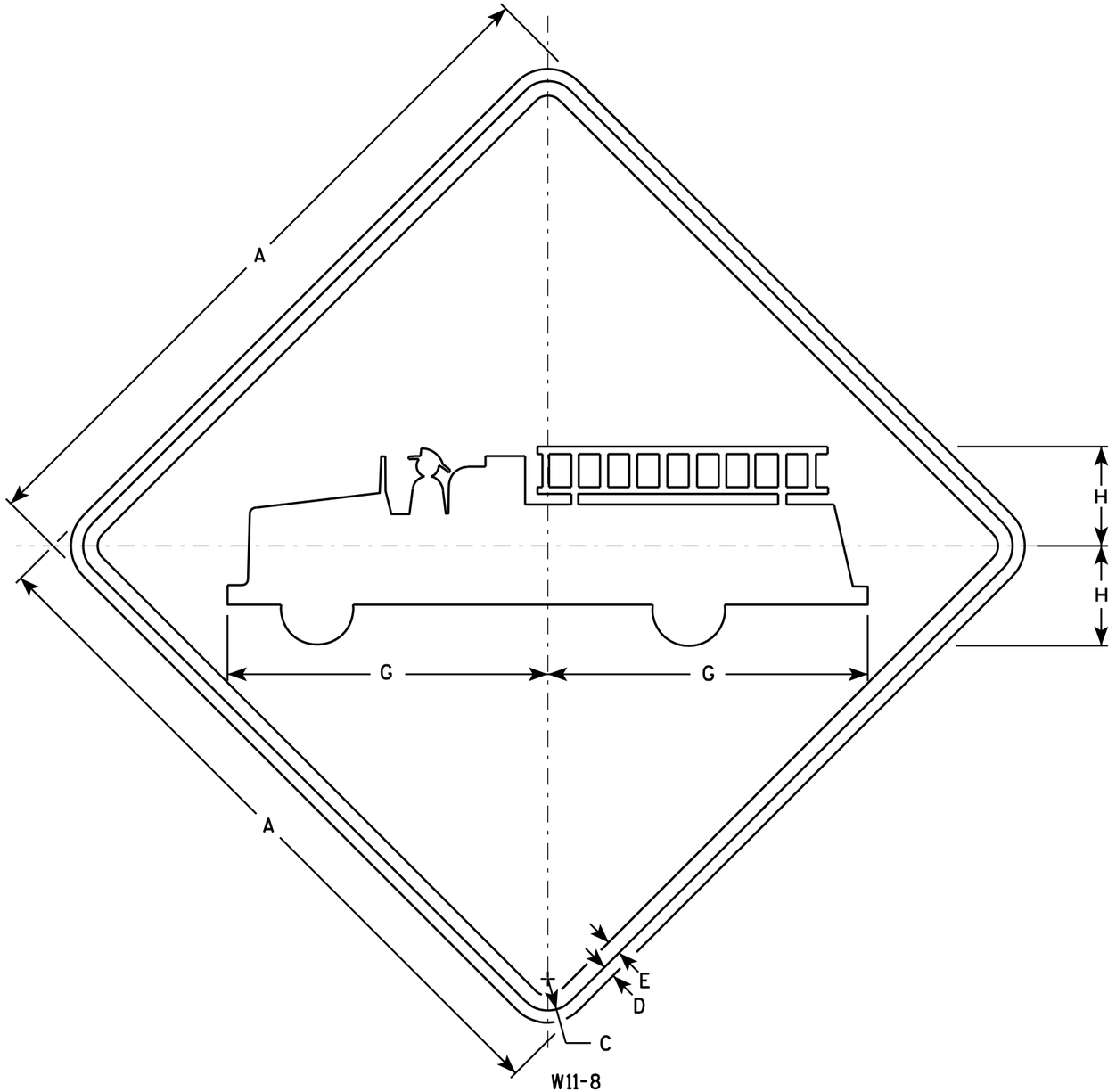
STANDARD SIGN
W11-2

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: 362 E



W11-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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	24		1 1/8	3/8	1/2		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN
W11-8

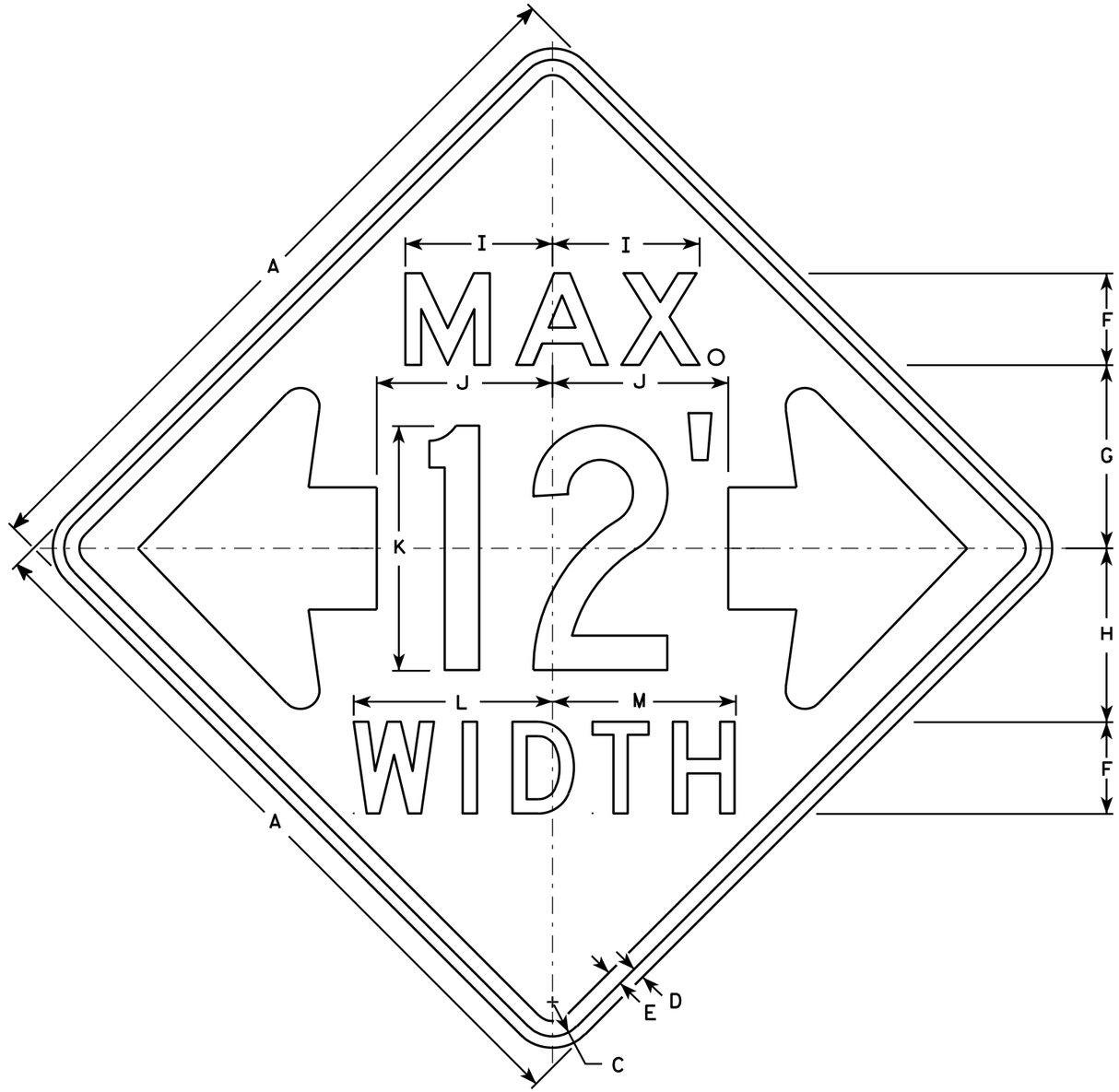
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-8.7

PROJECT NO:

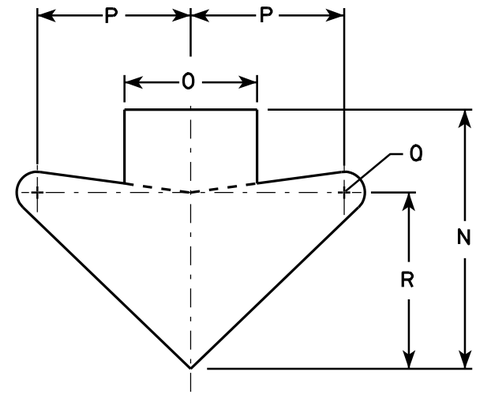
SHEET NO: 363 E



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

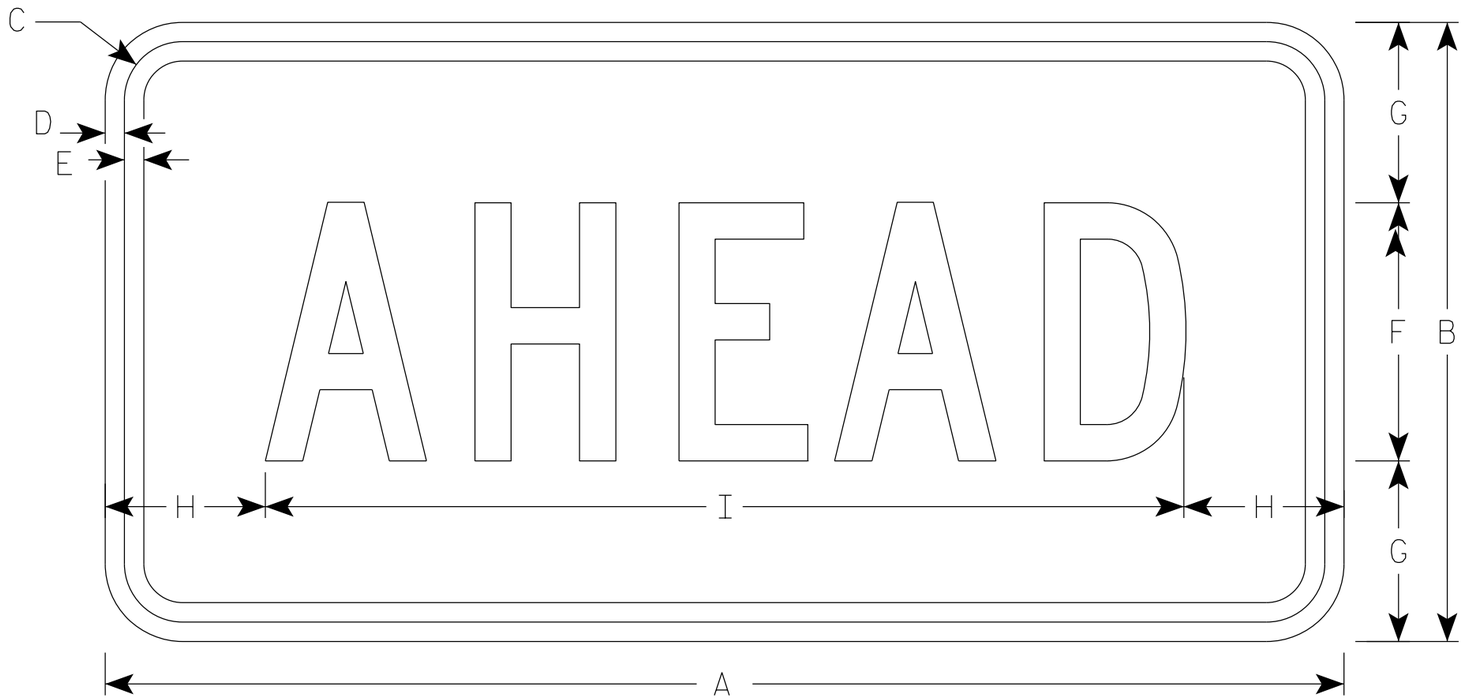
DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 364 | 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

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



W16-9P

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	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

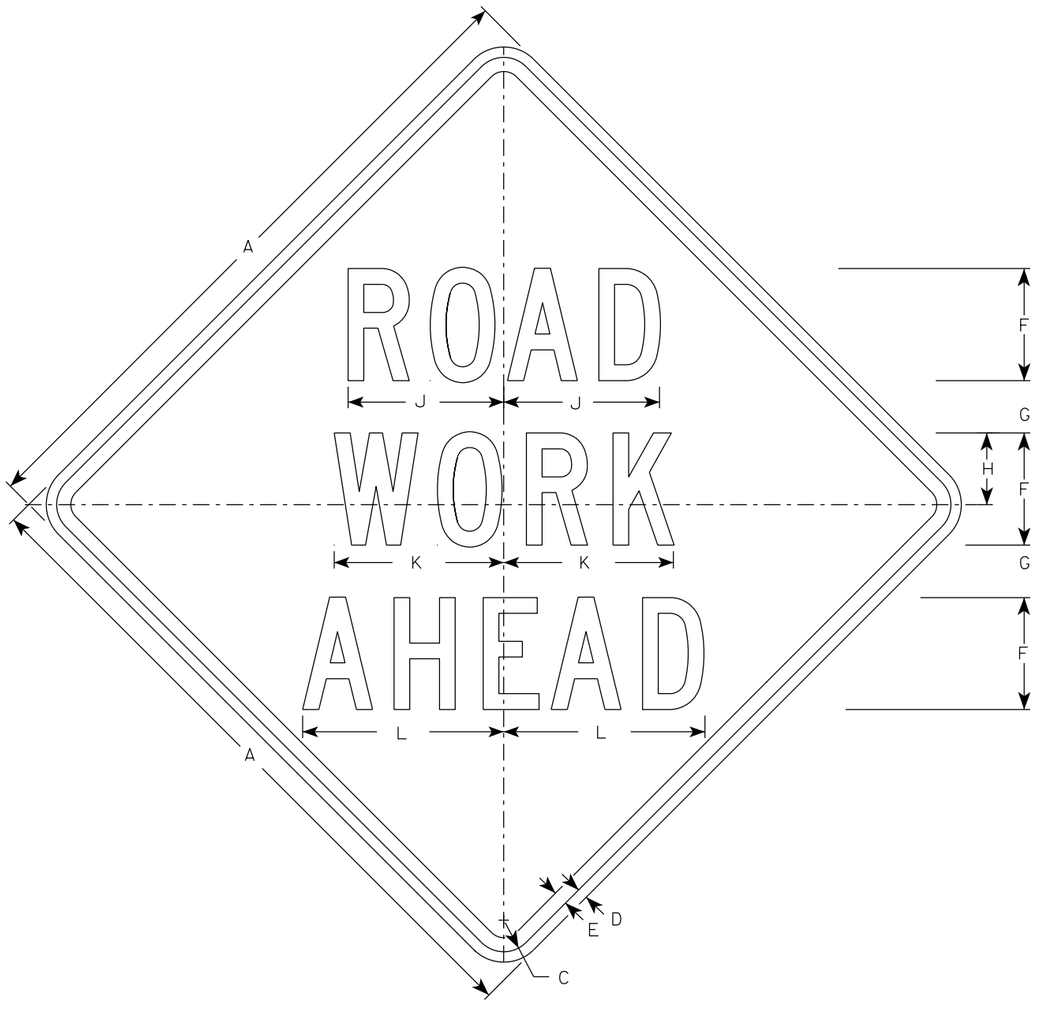
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/7/19 PLATE NO. W16-9P.7

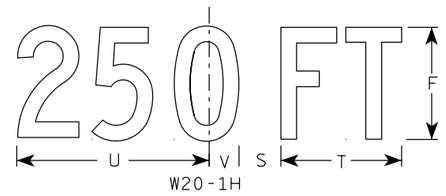
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 365 E

NOTES

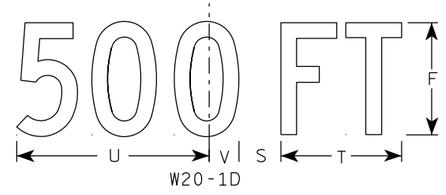
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A



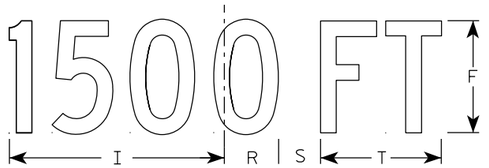
W20-1H



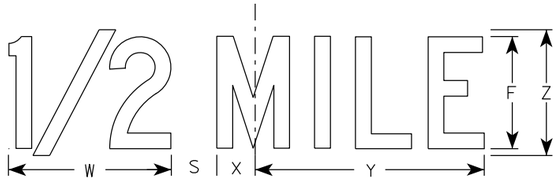
W20-1D



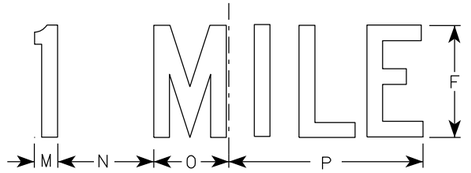
W20-1C



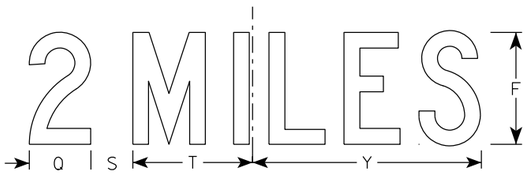
W20-1B



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:

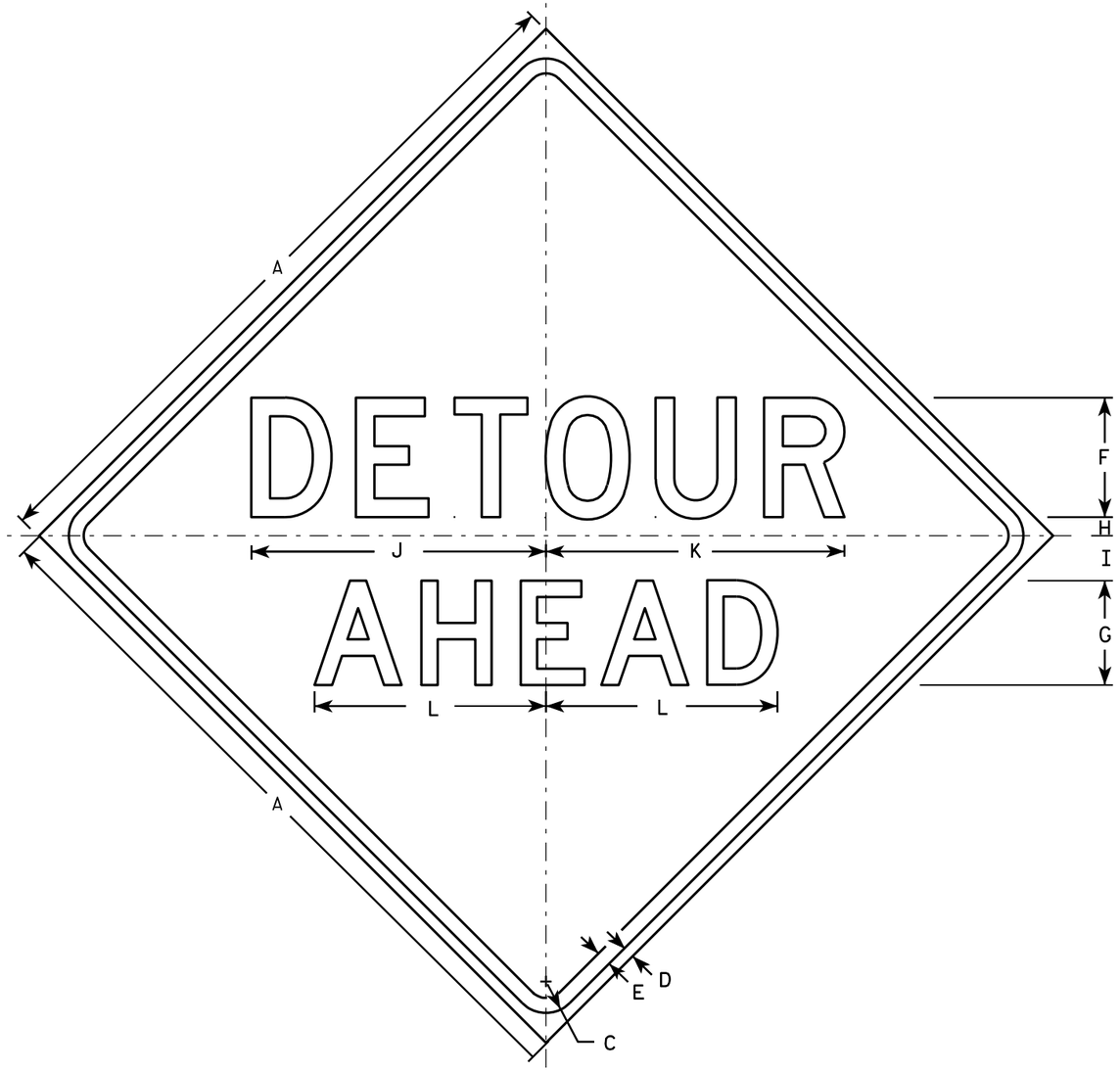
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

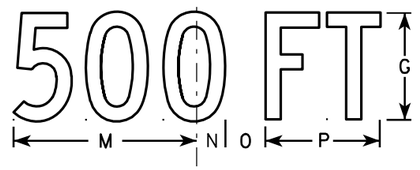
WISDOT/CADDS SHEET 42

7

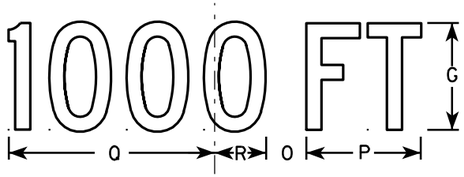
7



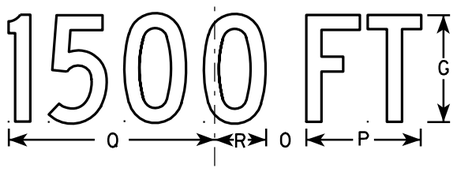
W20-2A



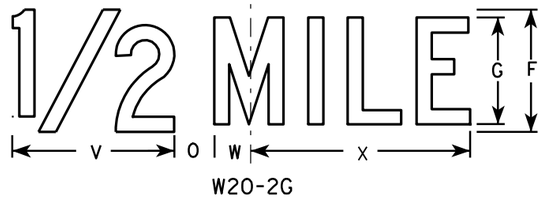
W20-2D



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

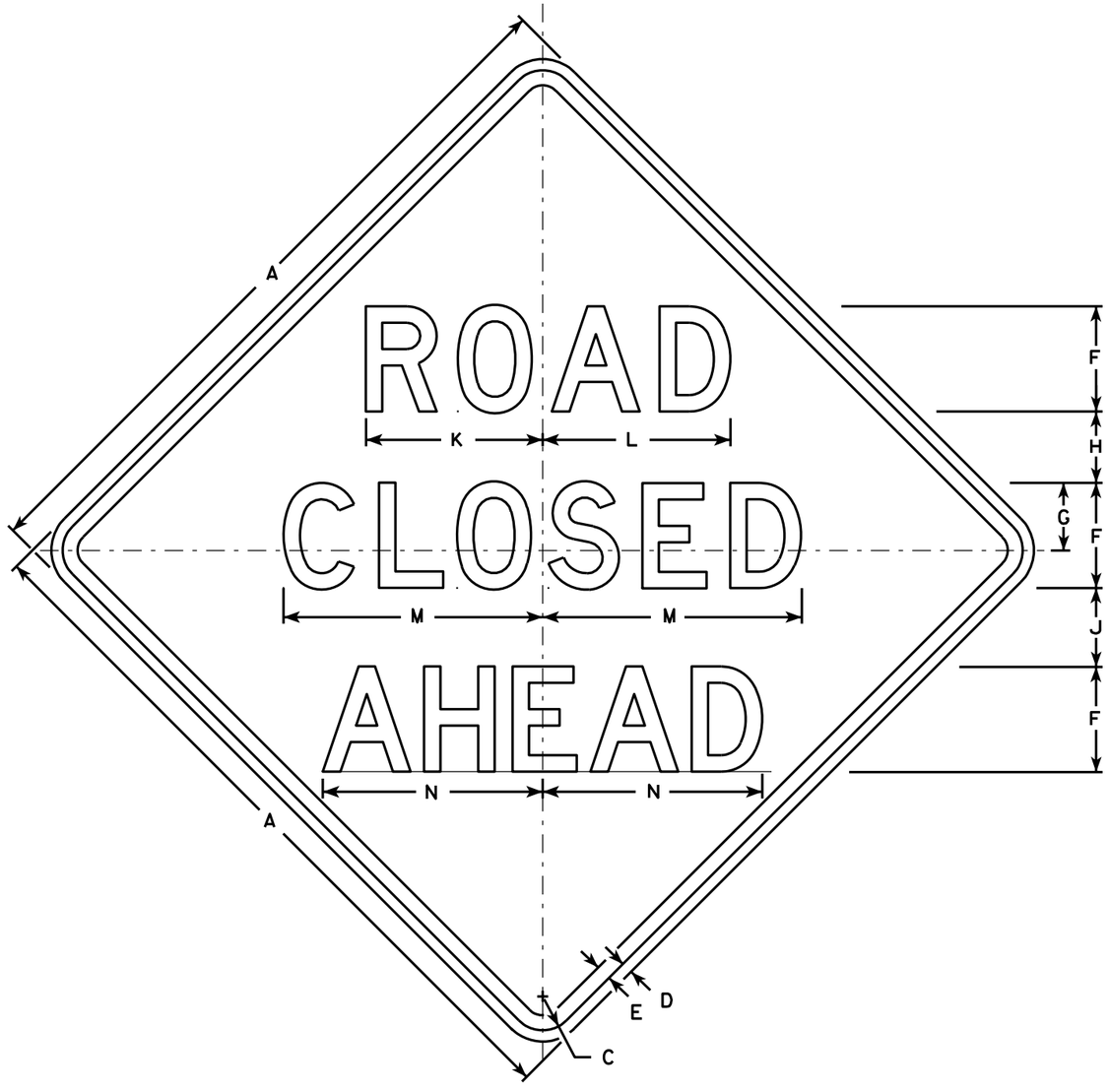
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

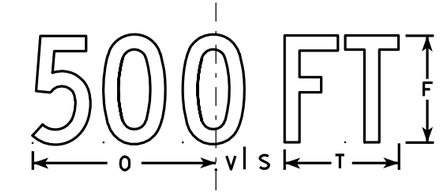
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

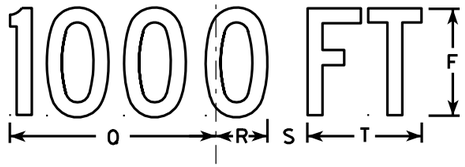
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 367	E



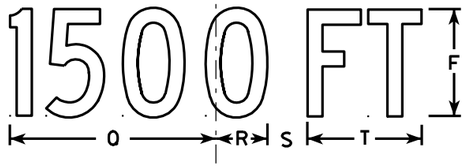
W20-3A



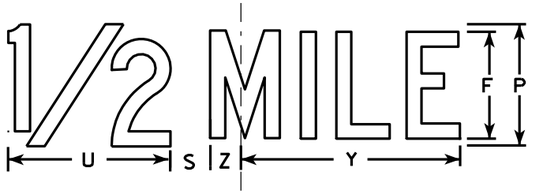
W20-3D



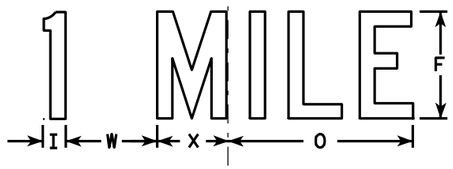
W20-3C



W20-3B



W20-3G



W20-3F

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

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.

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

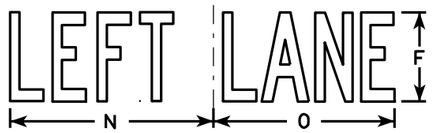
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 368 | E

7

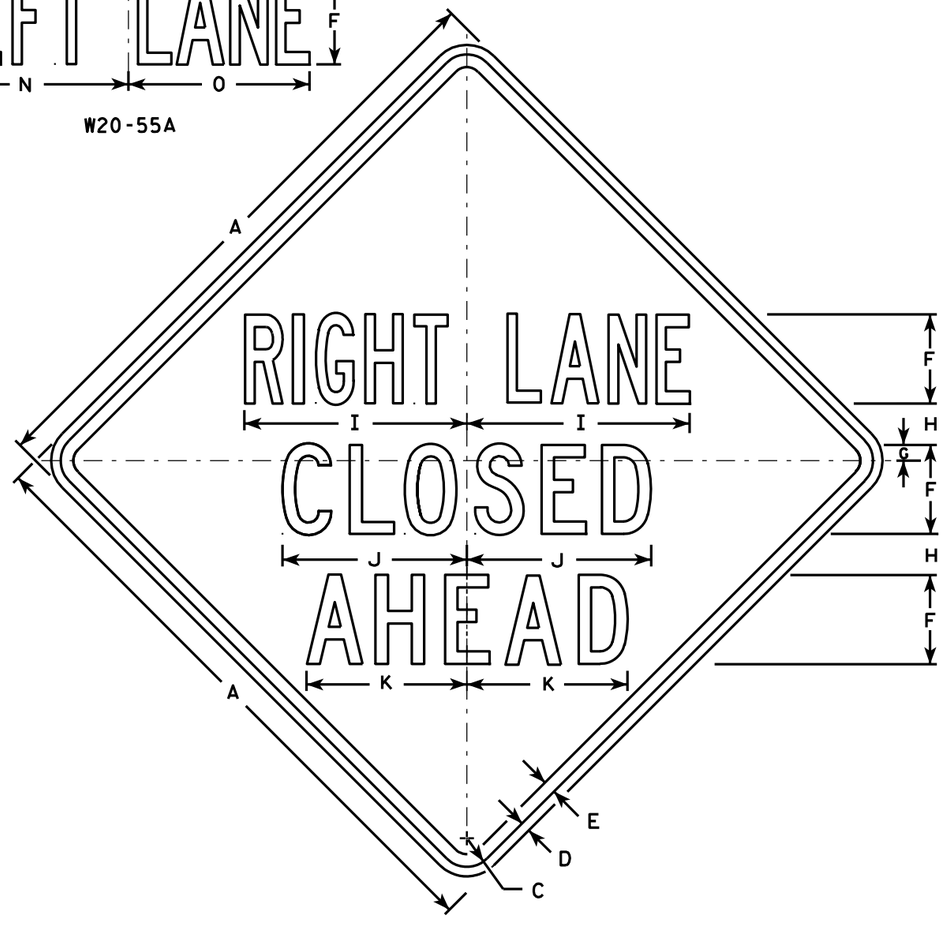
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



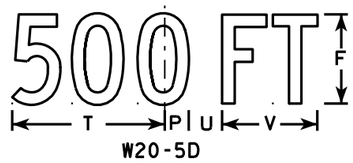
W20-56A



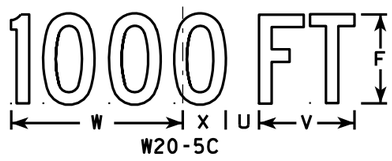
W20-55A



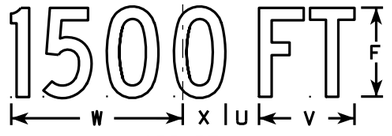
W20-5A



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

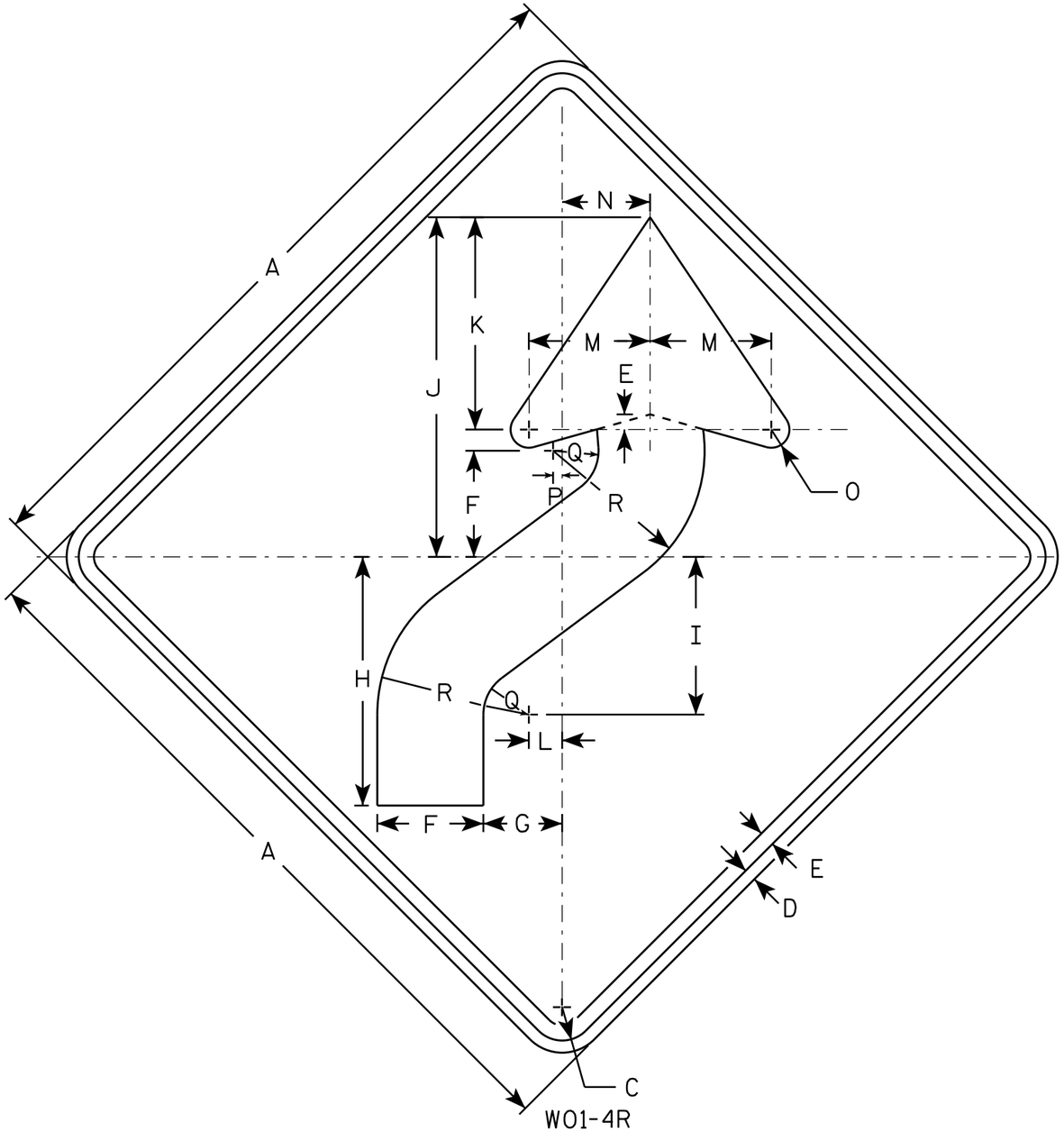
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 369	E

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

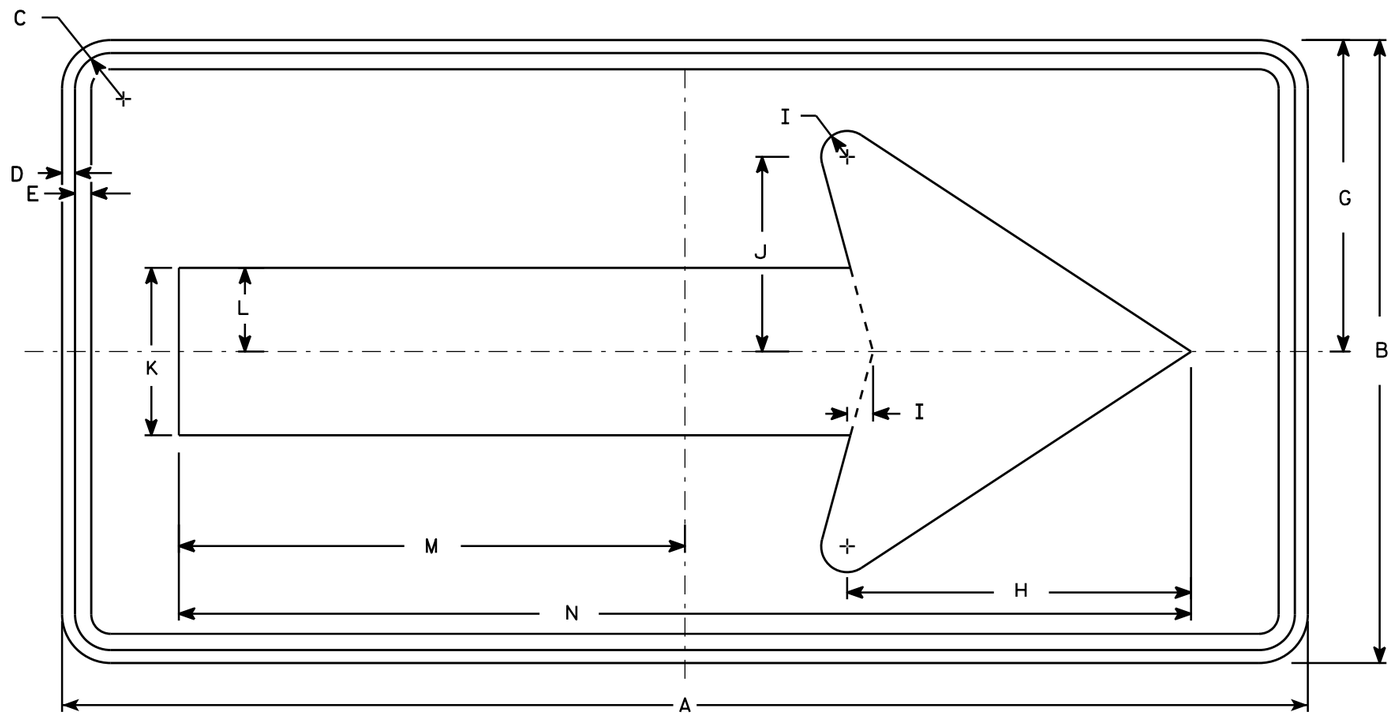
WISCONSIN DEPT OF TRANSPORTATION

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



W01-6

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

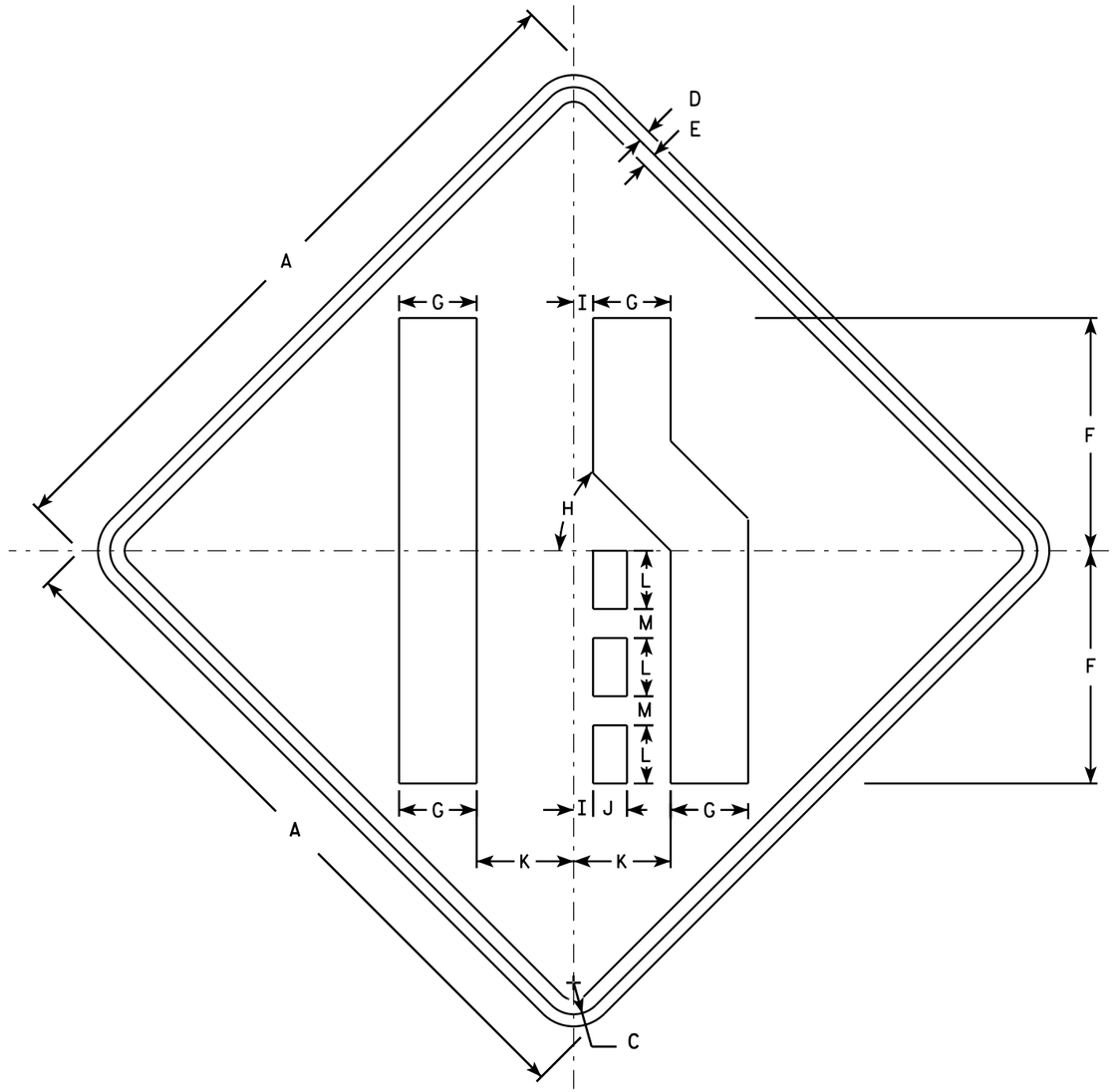
WISCONSIN DEPT OF TRANSPORTATION

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



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

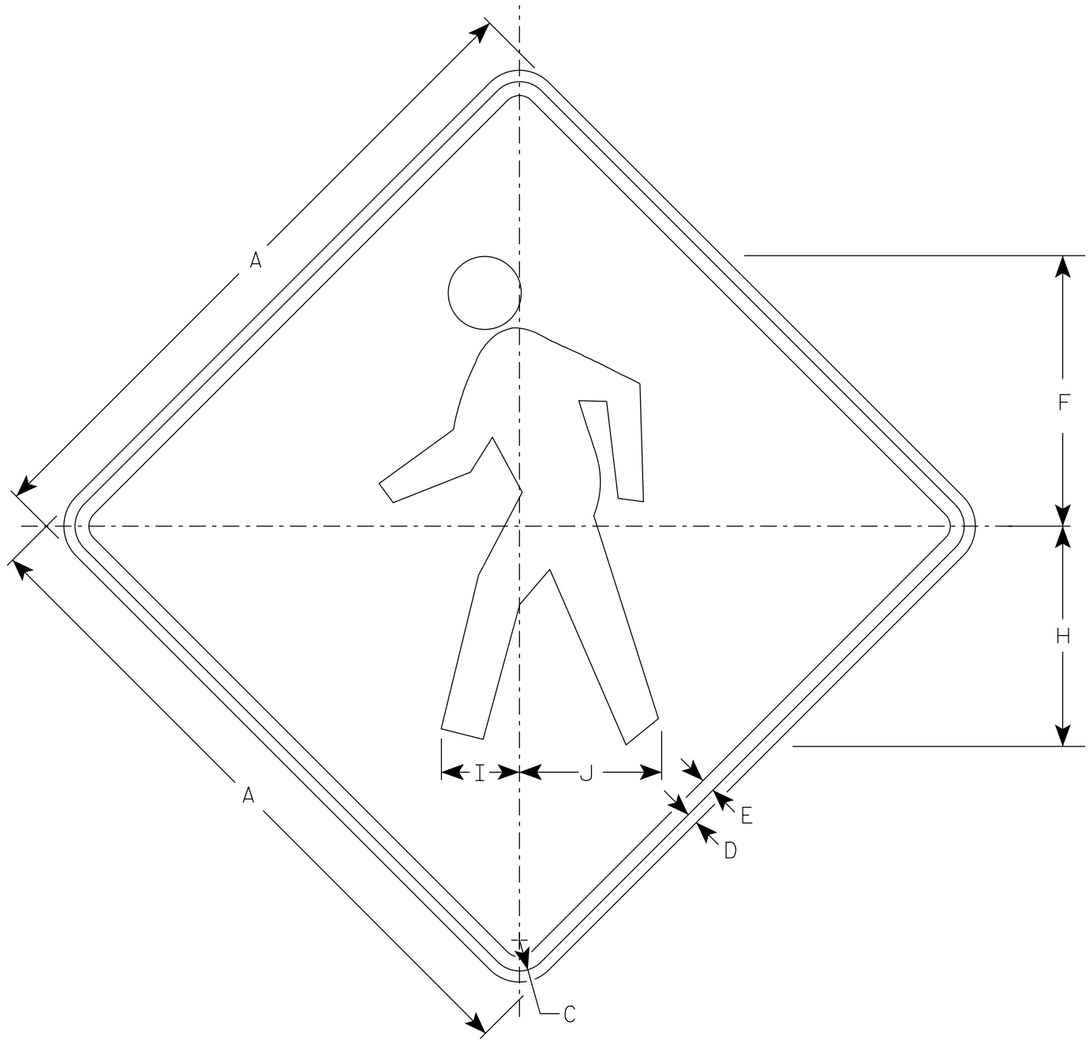
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 372 W04-2.1

PROJECT NO:

SHEET NO: E



WO11-2

NOTES

1. Sign is Type II - Type F Reflective
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	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
2S	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
2M	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
3	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
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

WO11-2

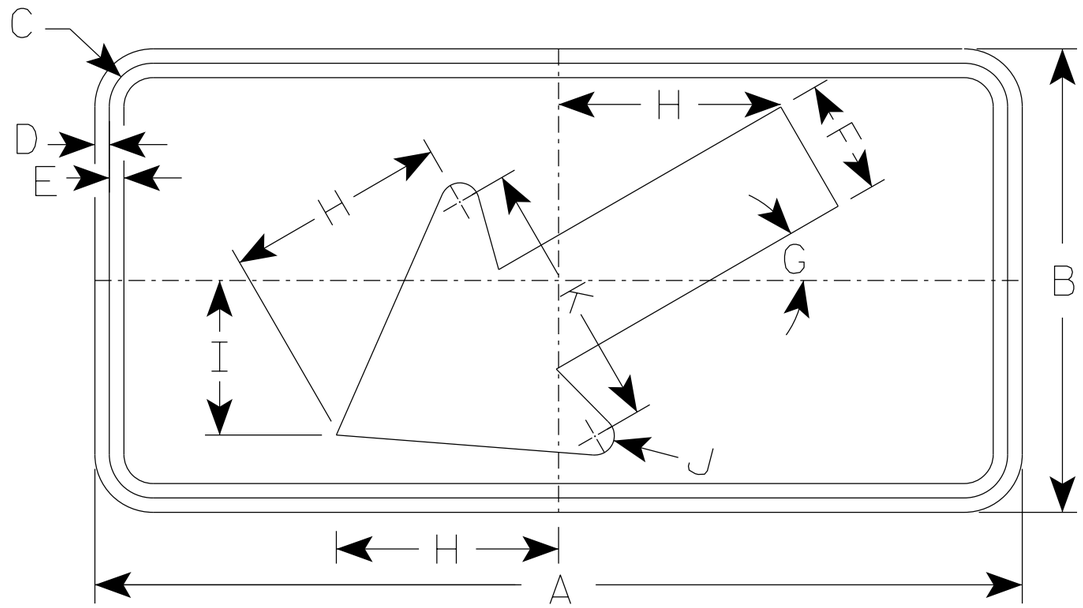
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 4/8/2020 PLATE NO. WO11-2.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 373	E



W016-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded but corners shall be rounded when base material is metal.
4. W016-7R is the same as W016-L 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	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2S	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
2M	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
3	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0

STANDARD SIGN
W016-7

WISCONSIN DEPT OF TRANSPORTATION

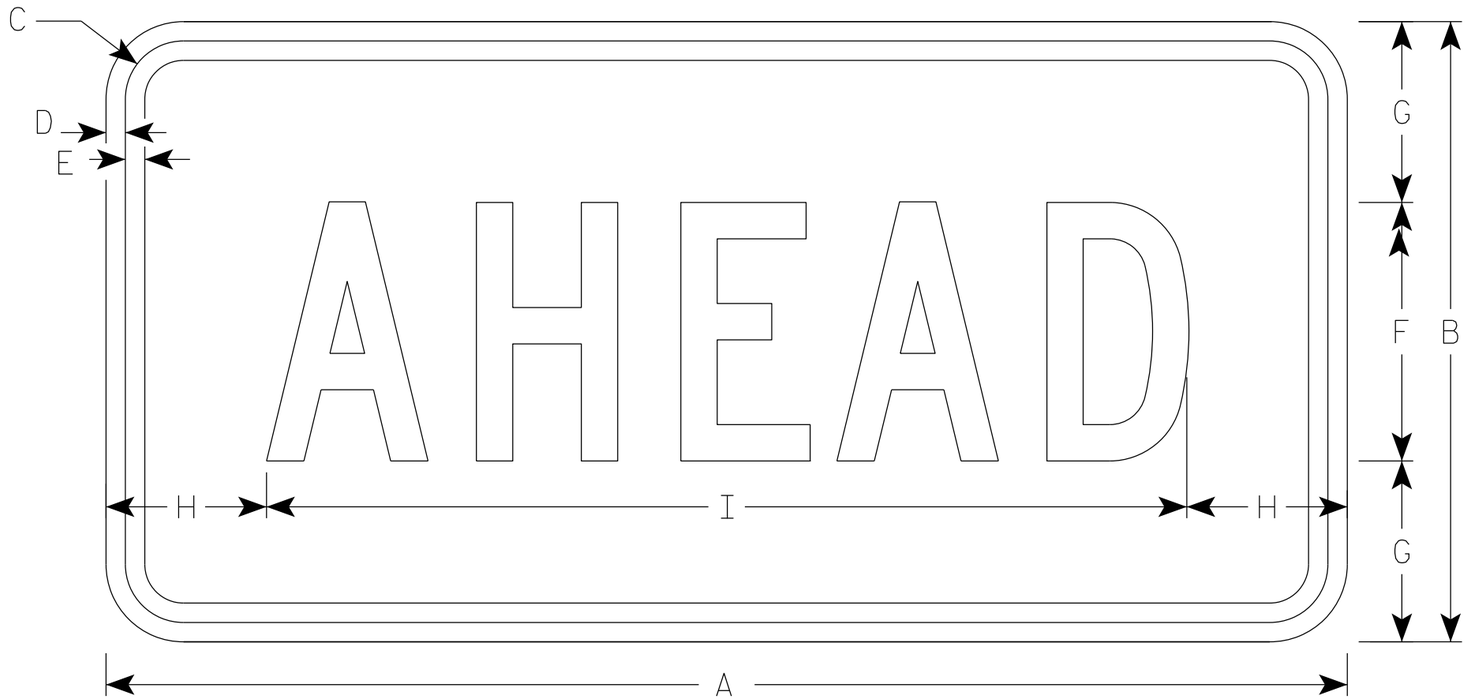
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. W016-7.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 374	E

7

7



W016-9P

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.

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 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2S	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
2M	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
3	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0

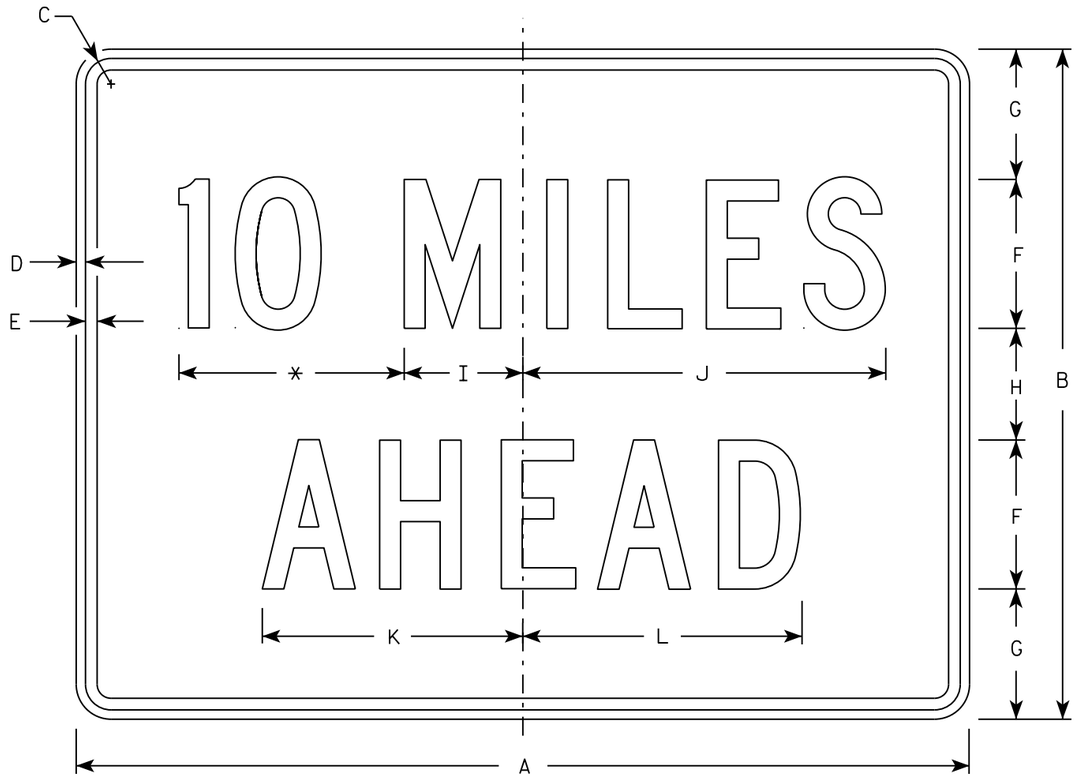
STANDARD SIGN
W016-9P

WISCONSIN DEPT OF TRANSPORTATION

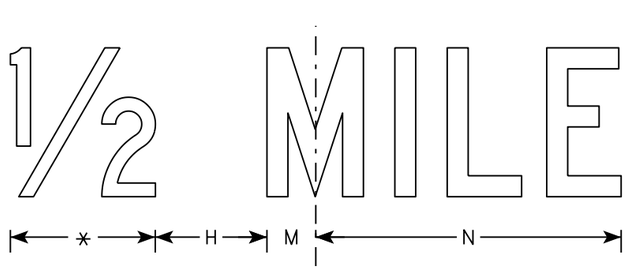
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/1/19 PLATE NO. W016-9P.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 375 | 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: 376	E

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov