EAU

May 10, 2022

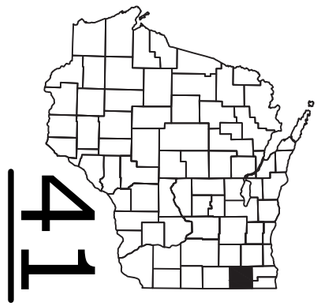
PROJECT ID: 3170-12-70

COUNTY: WALWORTH

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 = 270



N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

DELAVAN - LAKE GENEVA

GENEVA NATIONAL TO FOREST

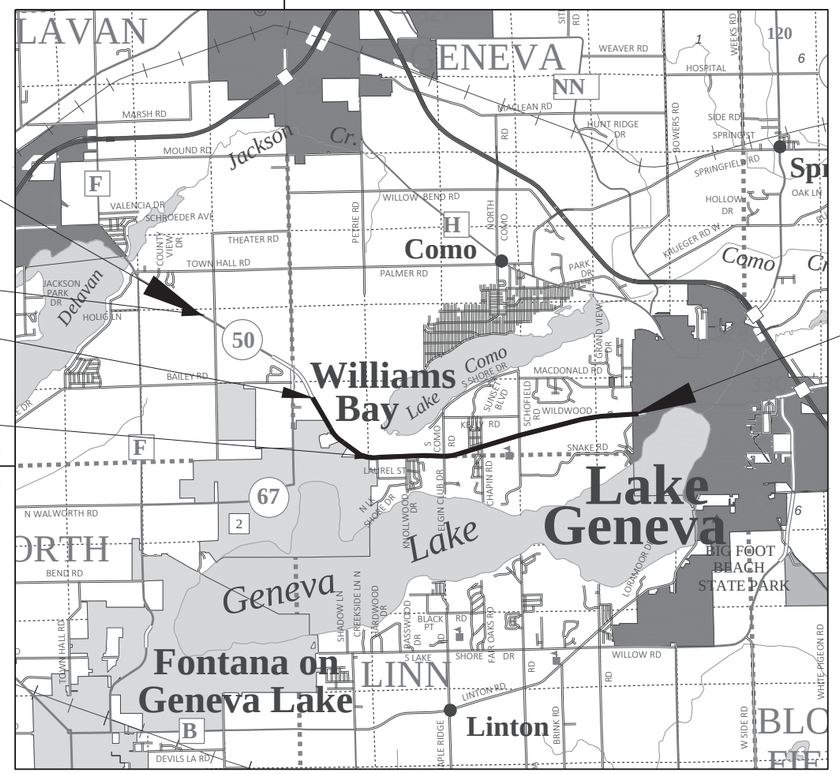
STH 50
WALWORTH COUNTY

STATE PROJECT NUMBER
3170-12-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3170-12-70	WISC 2022391	1

R16E | R17E

T2N
T1N



BEGIN CONSTRUCTION
STA 272+80.00

STRUCTURE C-64-0086

BEGIN PROJECT
STA 373+63.00
Y = 336867.984
X = 764697.127

STRUCTURE C-64-0087

END PROJECT
STA 620+31.95

LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 4.672

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), WALWORTH COUNTY NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

DESIGN DESIGNATION

A.A.D.T.	2023	=	10,880
A.A.D.T.	2043	=	12,210
D.H.V.		=	1,575
D.D.		=	59/41
T.		=	9.4%
DESIGN SPEED		=	50 MPH (BEGIN - 435+00; STA 585+00 - END) 60 MPH (STA 435+00 - 585+00)
ESALS		=	N/A

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

ORIGINAL PLANS PREPARED BY
BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

WISCONSIN
VALBON LATIFI
E-45819
CUDAHY, WI
PROFESSIONAL ENGINEER

DATE: 02/01/22 (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	TOKI AND ASSOCIATES, INC.
Designer	BLOOM COMPANIES, LLC.
Project Manager	DOUGLAS CAIN
Regional Examiner	WISDOT SE REGION
Regional Supervisor	BENEDICT ERUCHALU

APPROVED FOR THE DEPARTMENT

DATE: 2/1/2022 (Signature)

E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\010101-TI.DWG

PLOT DATE : 1/25/2022 3:06 PM

PLOT BY : VALBON LATIFI

PLOT NAME :

GENERAL NOTES

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

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

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

UNLESS NOTED ON THE PLAN, ALL STATIONS AND OFFSETS ARE BASED OFF OF THE STH 50 REFERENCE LINE.

DIMENSIONS GIVEN FOR EXISTING FEATURES SHALL BE CONSIDERED AS APPROXIMATE AND MEASURED IN THE FIELD.

A SAWCUT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT. ALL SAWCUTS SHALL BE MADE PERPENDICULAR TO THE CENTERLINE UNLESS DIRECTED BY THE ENGINEER.

SAWCUT ASPHALT AND CONCRETE AT THE MATCHLINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.

WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

DO NOT USE FERTILIZER IN AREAS THAT ARE WITHIN 20 FEET OF WETLANDS OR EXISTING WATERWAYS.

PLACE EROSION CONTROL DEVICES IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER. EROSION CONTROL FEATURES ARE SHOWN AT APPROXIMATE LOCATIONS, WITH EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOPSOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN 5 CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN 14 CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.

RESHAPING AND RESTORING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

COORDINATE WITH SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC) FOR THE PERPETUATION OF SECTION CORNER (PUBLIC LAND SURVEY SYSTEM - PLSS) MONUMENTS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH SEWRPC AND THE WISDOT PROJECT MANAGER THROUGHOUT THE PERPETUATION PROCESS. THE CONTRACTOR WILL CONTACT SEWRPC AT (262) 953-4289 AT LEAST TWO WEEKS BEFORE STARTING CONSTRUCTION OPERATIONS. THE SEWRPC REPRESENTATIVE WILL MAKE THE DETERMINATION OF THE EXTENT OF THE WORK INVOLVED WITH THE SECTION CORNER MONUMENTS BASED ON INSPECTION DURING CONSTRUCTION.

ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING GRADATIONS, TRAFFIC, BINDER, AND DESIGNATIONS.

TOTAL PAVEMENT LAYER THICKNESS	LAYERS	NOMINAL MAXIMUM AGGREGATE GRADATION	TRAFFIC	ASPHALT BINDER	BINDER DESIGNATION LEVEL
1 1/2"	1 1/2"	4	MT	58-28	S
2"	2"	4	MT	58-28	S
5 1/2"	2" UPPER 3 1/2" LOWER	4 3	MT MT	58-28 58-28	S S

ABBREVIATIONS

BP	BREAK POINT
CSCP	CORRUGATED STEEL CULVERT PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
DIM	DIMENSION
EOP	EDGE OF PAVEMENT
FE	FIELD ENTRANCE
HP	HIGH POINT
LP	LOW POINT
MAX	MAXIMUM
MIN	MINIMUM
NO	NUMBER
NOR	NORMAL
PGL	PROFILE GRADE LINE
PROP	PROPOSED
RC	REVERSE CROWN
RCCP	REINFORCED CONCRETE CULVERT PIPE

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
PAVEMENT MARKING
PERMANENT SIGNING
TRAFFIC CONTROL AND STAGING
ALIGNMENT
SURVEY CONTROL

UTILITY CONTACTS

ALLIANT ENERGY (ELECTRICITY)
AUSTIN KROHN
400B KOOPMAN LN
ELKHORN, WI 53121
OFFICE: (262) 741-0934
CELL: (262) 741-0905
elkhorn_engineering@alliantenergy.com

ATC MANAGEMENT INC. (ELECTRICITY)
CHRIS DAILEY
P.O. BOX 47
WAUKESHA, WI 53187
(262) 506-6884
cdailey@atcllc.com

AT&T WISCONSIN (COMM. LINE)
RYAN DENEWELLIS
152 DIXON ST
MADISON, WI 53704
OFFICE: (608) 252-2879
CELL: (608) 358-6285
rd1238@att.com

GENEVA NATIONAL SANITARY DISTRICT (SEWER)
PATRICK PRAHL
201 GENEVA NATIONAL AVE
LAKE GENEVA, WI 53147
(262) 245-9759
pat@gnpropertymgmt.com

WE ENERGIES (GAS/PETROLEUM)
SCOTT HOLSTEIN
700 S KANE ST
BURLINGTON, WI 53105
OFFICE: (262) 763-1084
CELL: (262-949-0490
scott.holstein@we-energies.com

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

OTHER CONTACTS

CITY OF LAKE GENEVA DEPARTMENT OF PUBLIC WORKS
DANIEL WINKLER
361 W MAIN ST
LAKE GENEVA, WI 53147
(262) 248-2311
lgwater@genevaonline.com

LAKE GENEVA UTILITY COMMISSION
JOSH GAJEWSKI
361 MAIN ST
P.O. BOX 187
LAKE GENEVA, WI 53147-0187
(262) 248-2311
jgajewsky@lgutilities.org

STATE LONG DISTANCE TELCOM LTD
MICHAEL JOHNSON
16924 W VICTOR RD
NEW BERLIN, WI 53151
(262) 754-6052
michael.johnson@tdstelecom.com

VILLAGE OF WILLIAMS BAY
WAYNE EDWARDS
250 WILLIAMS ST
P.O. BOX 580
WILLIAMS BAY, WI 53191-0580
(262) 245-2706
wedwards@williamsbay.org

WALWORTH COUNTY
RICHARD HOUGH
W4097 COUNTY ROAD NN
ELKHORN, WI 53121
(262) 741-3104
rhough@co.walworth.wi.us

WALWORTH COUNTY METRO SEWAGE DISTRICT
NEAL KOLB
975 W WALWORTH AVE
DELAVAN, WI 53115
(262) 728-4140
nkolb@walcomet.com

WISDOT CONTACT

DOUGLAS CAIN
WISDOT SOUTHEAST REGION
WAUKESHA OFFICE
141 NW BARSTOW ST
WAUKESHA, WI 53187
(262) 548-5603
douglas.cain@dot.wi.gov

DESIGNER CONTACT

VALBON LATIFI
10501 W RESEARCH DR, STE 100
MILWAUKEE, WI 53226
OFFICE: (414) 292-4558
CELL: (414) 839-1646
FAX: (414) 771-4490
vlatifi@bloomcos.com

DNR LIAISON

CRAIG WEBTSER
141 NW BARSTOW ST, ROOM 180
WAUKESHA, WI 53187
(262) 574-2141
craig.webster@wisconsin.gov

SEWRPC CONTACT

ROB MERRY (CHIEF SURVEYOR)
W239 N1812 ROCKWOOD DR
P.O. BOX 1607
WAUKESHA, WI 53187-1607
OFFICE: (262) 953-4289
CELL: (920) 912-1036
FAX: (262) 547-1103
rmerry@sewrpc.org

2

2

GENEVA NATIONAL AVE W

370

BEGIN PROJECT 3170-12-70
STA 373+63.00

380

67

50

390

TOWN OF GENEVA

N

BEGIN CONSTRUCTION 3170-12-70
STA 272+80.00

THEATRE RD

N

50

250 260 270 280 290

BOX CULVERT
C-64-0086

TOWN OF DELAVAN

HARRIS RD

400

R/L STH 50

410

BOX CULVERT
C-64-0087

420

PRESERVE CT

SANCTUARY GLEN DR

KNOLLWOOD DR

SHORE VIEW DR

GREENLEAF RD

CISCO RD

RED CHIMNEY RD

S COMO RD

MATCH LINE STA 500+00

490

KENYARD DR

50

430 440 450 460 470 480

VILLAGE OF WILLIAMS BAY

GENEVA ST

ACCESS RD

ARA GLEN DR

TOWN OF LINN

ELGIN CLUB RD

MCDONALD RD

WILDWOOD DR

N

DODGE ST

SOUTH END RD

LAKE VIEW DR

CENTRAL DR

SUNSET PARK DR

SUNSET BLVD

SCHOFIELD RD

WOODLANE RD

TOWN OF GENEVA

DUMMER DR

50

FOREST ST

PEARSON DR

MATCH LINE STA 500+00

SOUTH END RD

500 510 520 530 540 550 560 570 580 590 600 610 620

CHAPIN DR

50

SNAKE RD

R/L STH 50

SNAKE RD

END CONSTRUCTION AND
END PROJECT 3170-12-70
STA 620+31.95

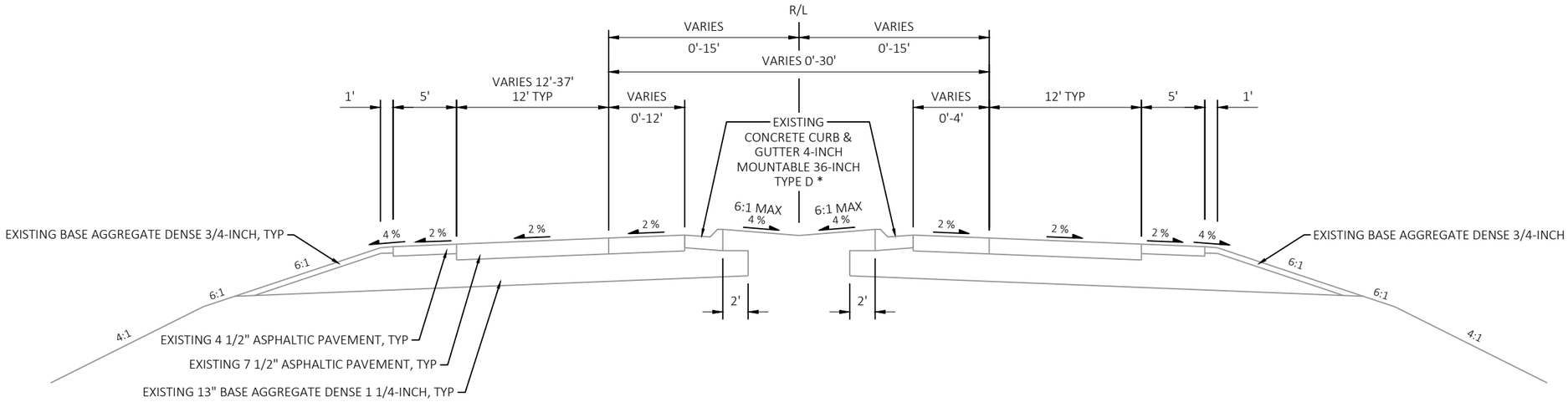
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 01-po

PLOT DATE : 1/25/2022 3:10 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 44

2

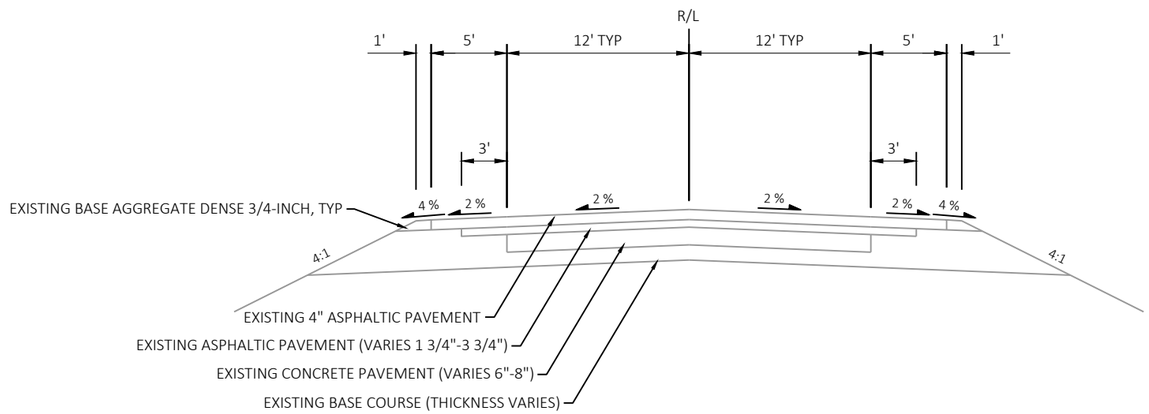


EXISTING TYPICAL SECTION

STA 373+63 - 383+00

NOTE

* REVERSE SLOPE GUTTER:
STA 373+63 TO STA 380+00, LT
STA 377+20 TO STA 380+00, RT



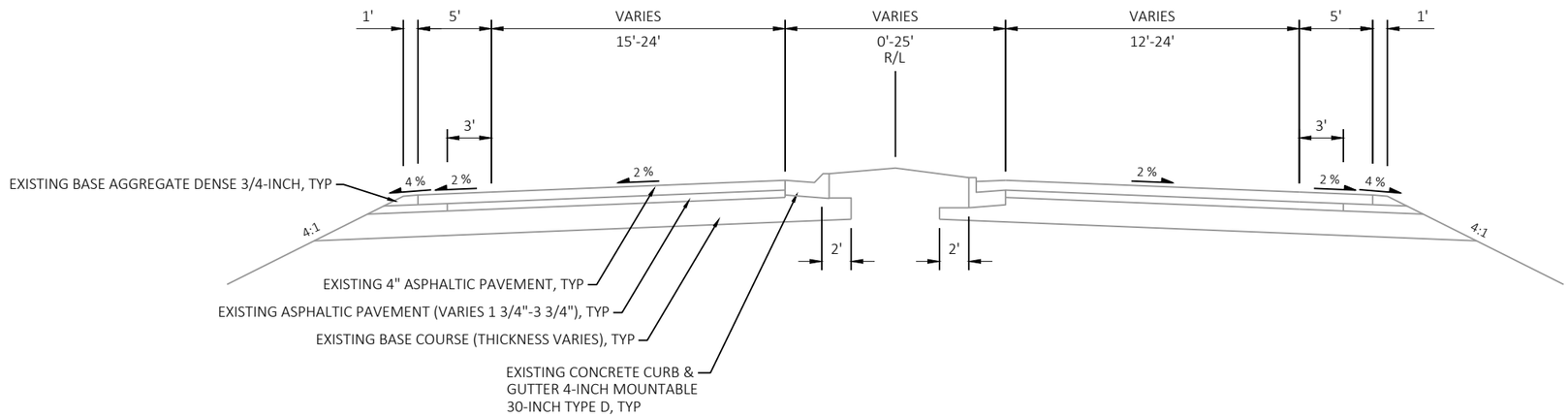
EXISTING TYPICAL SECTION

STA 383+00 - 420+10

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EXISTING TYPICAL SECTIONS	SHEET 4	E

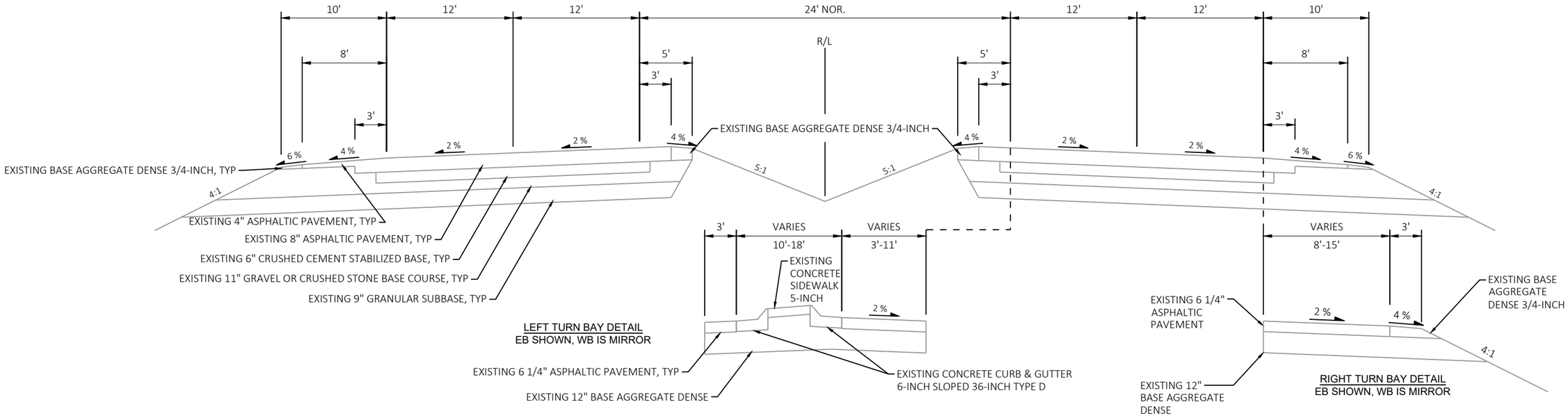
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LAYOUT NAME - 01-ets
PLOT DATE : 1/30/2022 4:02 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



EXISTING TYPICAL SECTION

STA 420+10 TO STA 431+80



LEFT TURN BAY DETAIL
EB SHOWN, WB IS MIRROR

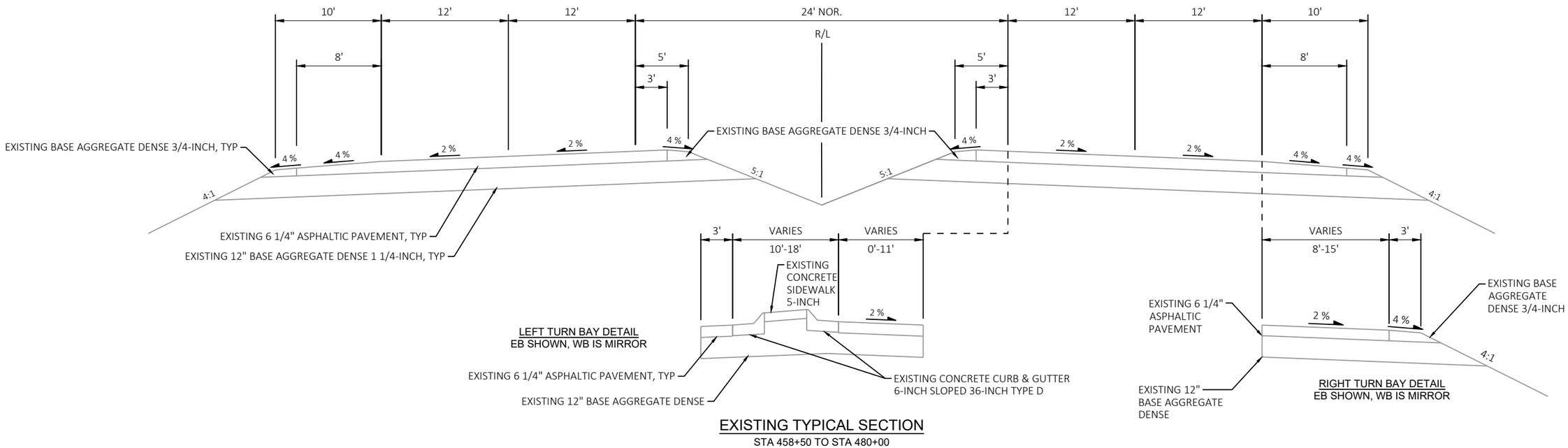
RIGHT TURN BAY DETAIL
EB SHOWN, WB IS MIRROR

EXISTING TYPICAL SECTION

STA 431+80 TO STA 458+50
STA 480+00 TO STA 593+80

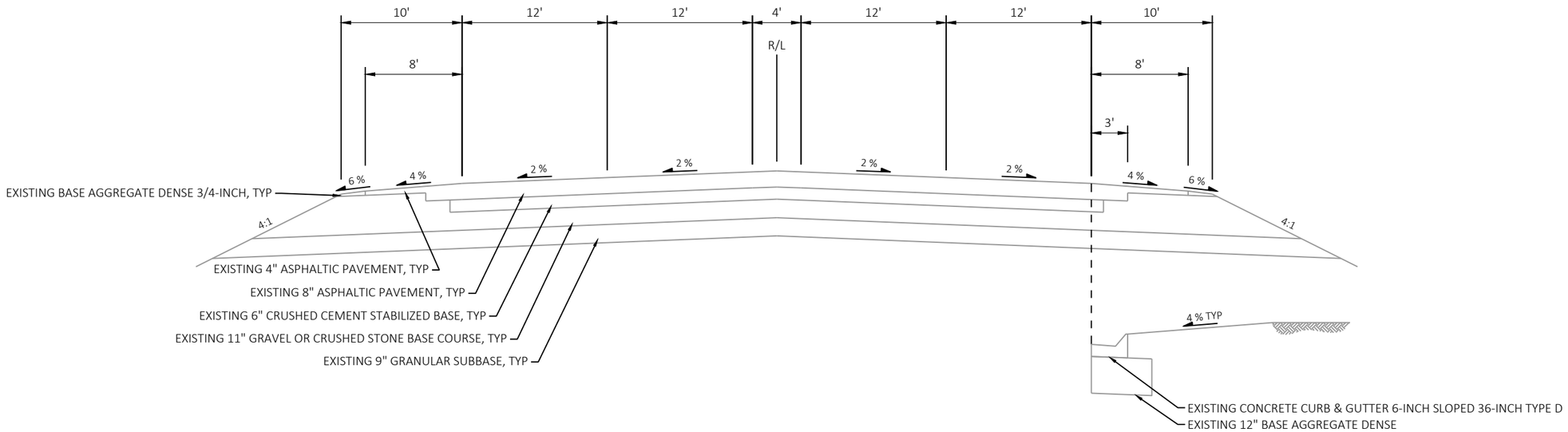
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FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 02-ets
PLOT DATE : 1/30/2022 4:02 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION

STA 458+50 TO STA 480+00



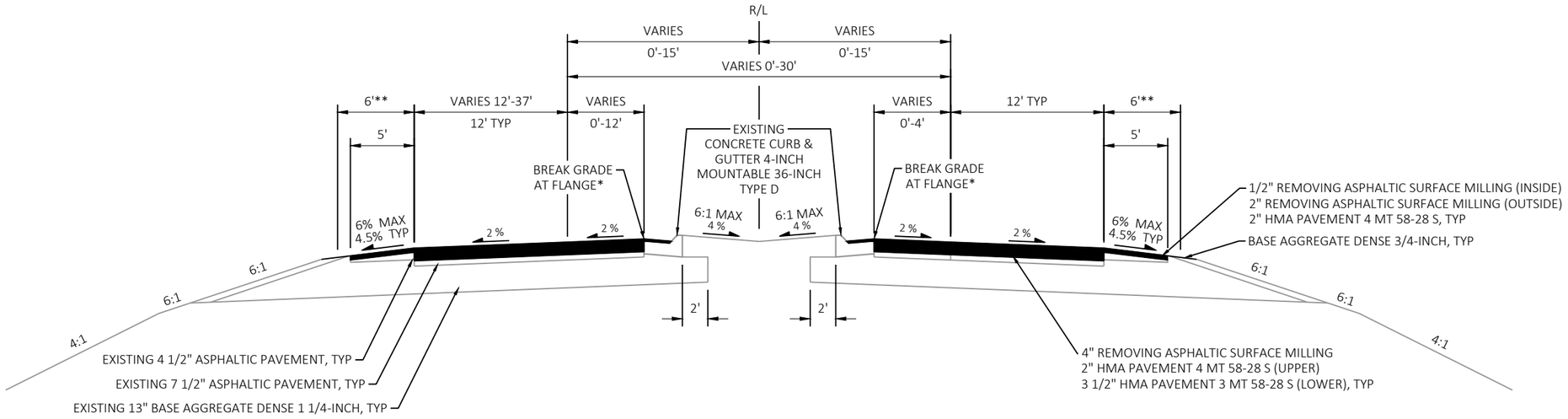
EXISTING TYPICAL SECTION

STA 593+80 TO STA 620+32

CURB & GUTTER
STA 618+28 - 620+32 LT/RT
EB SHOWN, WB IS MIRROR

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EXISTING TYPICAL SECTIONS	SHEET 6	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 03-ets
PLOT DATE : 1/30/2022 4:02 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



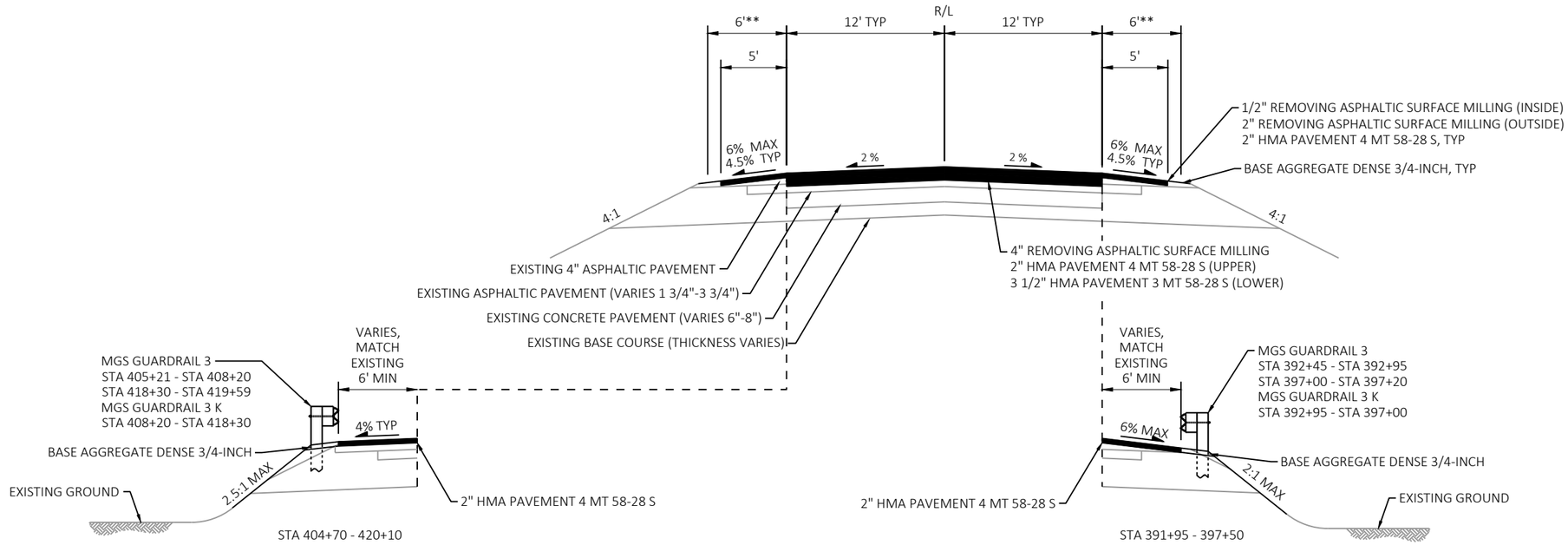
FINISHED TYPICAL SECTION

STA 373+63 TO STA 383+00

NOTES

* REVERSE SLOPE GUTTER:
STA 373+64 TO STA 380+00
STA 377+20 TO STA 380+00

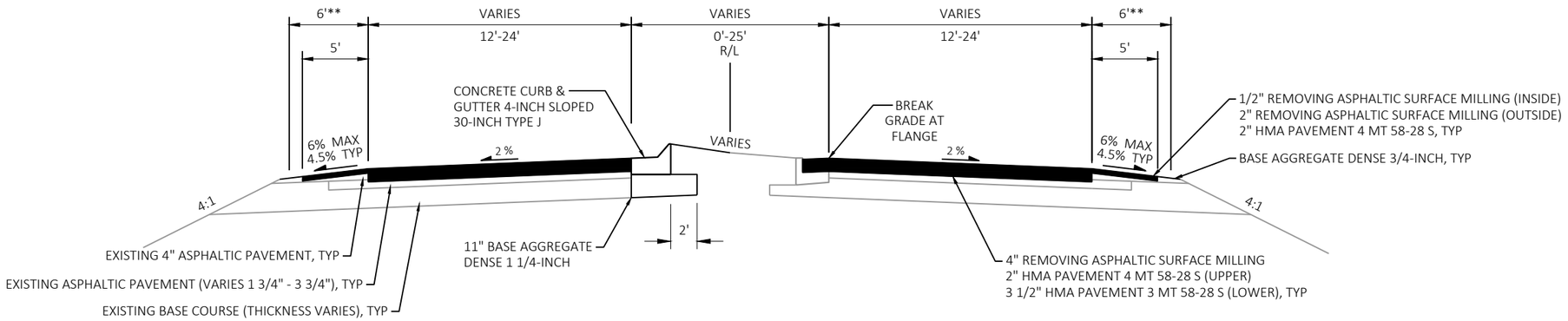
** SHAPING SHOULDER TO BE UTILIZED IN RURAL SHOULDER SECTIONS



FINISHED TYPICAL SECTION

STA 383+00 TO STA 420+10

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	FINISHED TYPICAL SECTIONS	SHEET 7	E



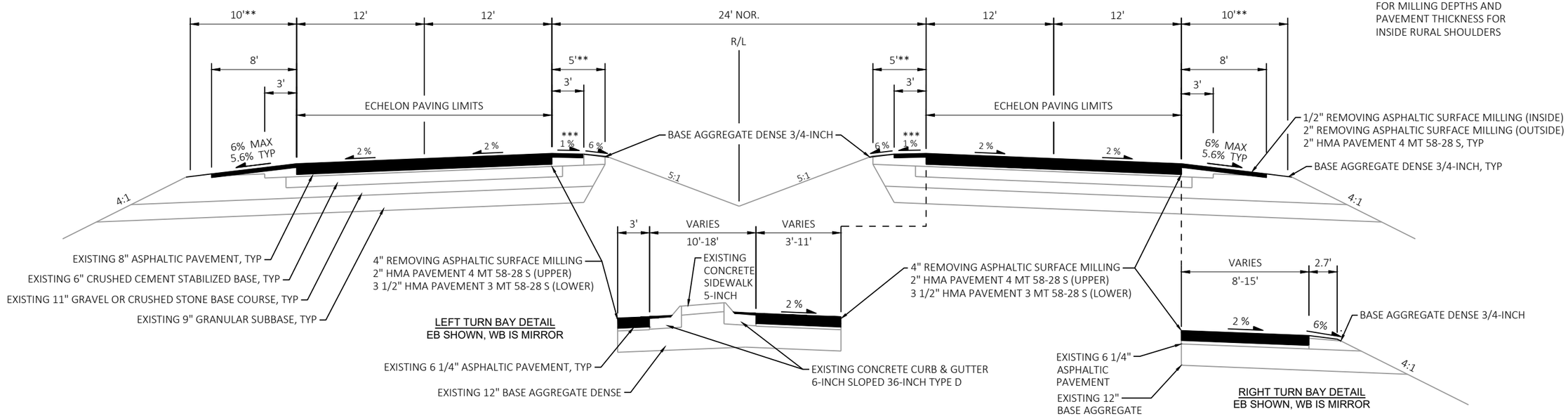
FINISHED TYPICAL SECTION

STA 420+10 TO STA 431+80

NOTES

** SHAPING SHOULDER TO BE UTILIZED IN RURAL SHOULDER SECTIONS

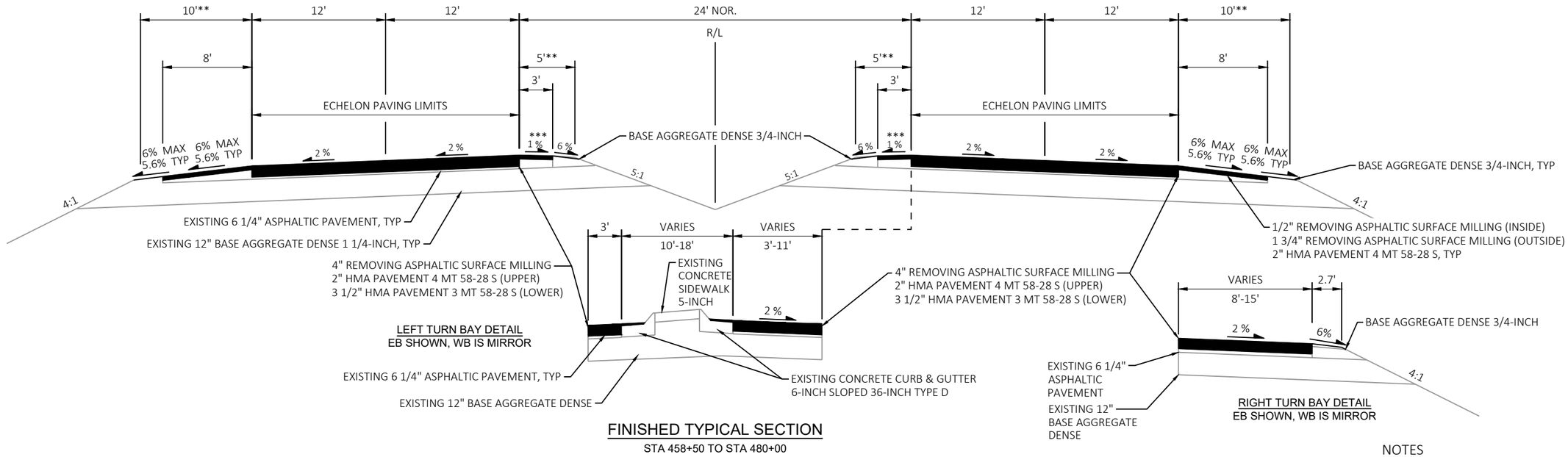
*** SEE CONSTRUCTION DETAILS FOR MILLING DEPTHS AND PAVEMENT THICKNESS FOR INSIDE RURAL SHOULDERS



FINISHED TYPICAL SECTION

STA 431+80 TO STA 458+50
STA 480+00 TO STA 593+80

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	FINISHED TYPICAL SECTIONS	SHEET 8	E



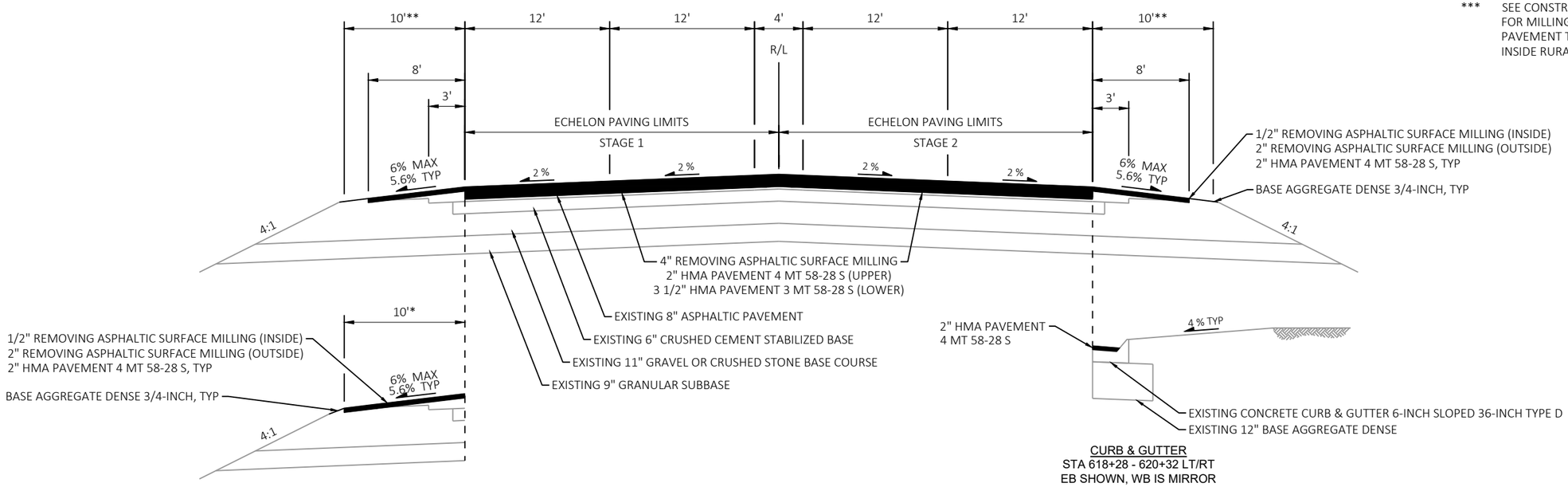
FINISHED TYPICAL SECTION

STA 458+50 TO STA 480+00

NOTES

** SHAPING SHOULDER TO BE UTILIZED IN RURAL SHOULDER SECTIONS

*** SEE CONSTRUCTION DETAILS FOR MILLING DEPTHS AND PAVEMENT THICKNESS FOR INSIDE RURAL SHOULDERS



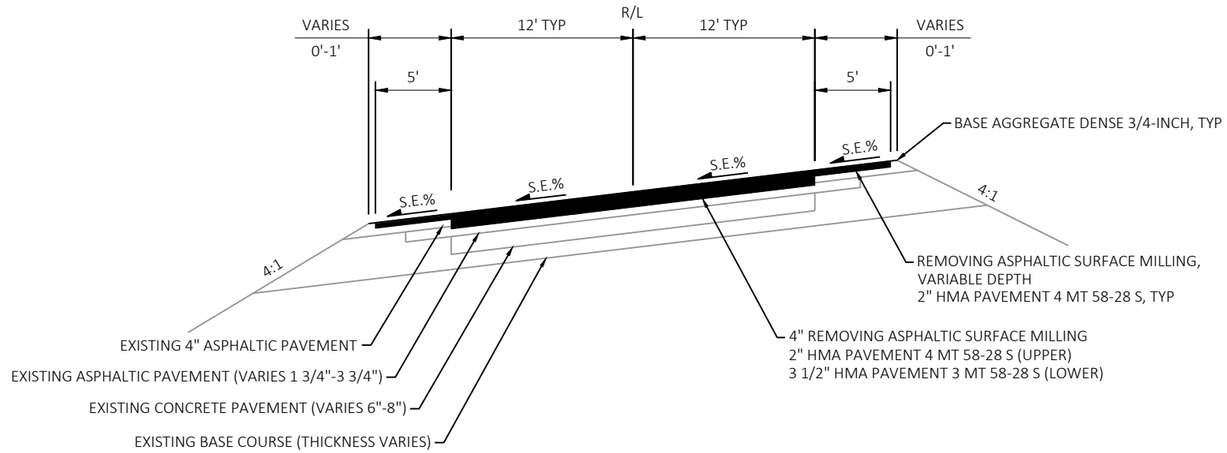
STA 598+40 - 610+65

CURB & GUTTER
STA 618+28 - 620+32 LT/RT
EB SHOWN, WB IS MIRROR

FINISHED TYPICAL SECTION

STA 593+80 TO STA 620+32

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	FINISHED TYPICAL SECTIONS	SHEET 9	E



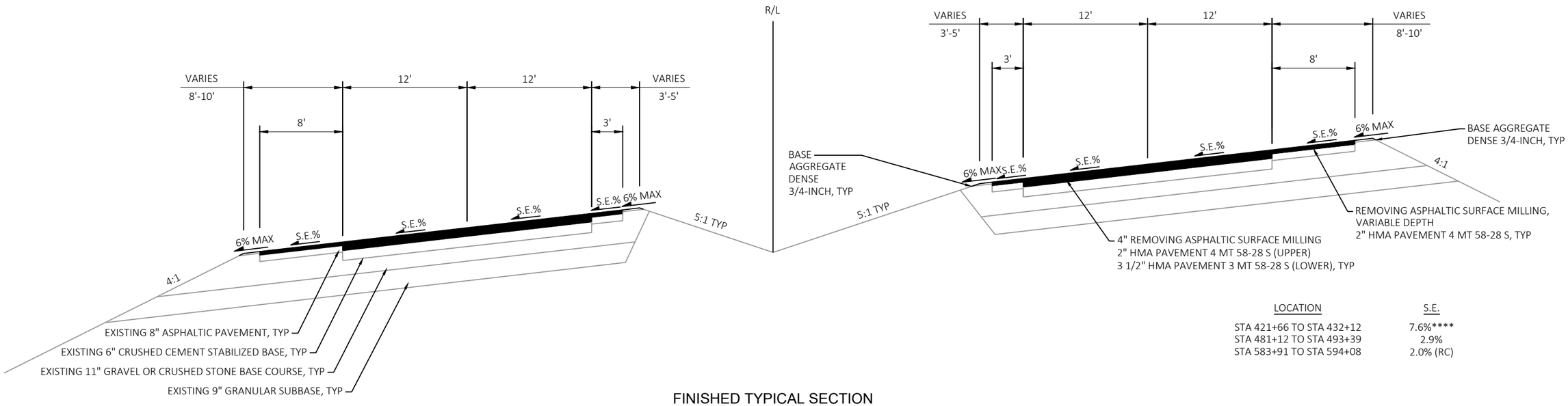
LOCATION	S.E.
STA 369+91 TO STA 376+52	3.9%
STA 401+28 TO STA 404+98	6.0%

FINISHED TYPICAL SECTION

TWO-LANE UNDIVIDED SUPERELEVATED SECTIONS

NOTE

**** 7.6% SLOPE TO BE UTILIZED FOR LOW SIDE AGGREGATE SHOULDER. HIGH SIDE AGGREGATE SHOULDER TO MATCH PAVED SHOULDER SLOPE.



LOCATION	S.E.
STA 421+66 TO STA 432+12	7.6%****
STA 481+12 TO STA 493+39	2.9%
STA 583+91 TO STA 594+08	2.0% (RC)

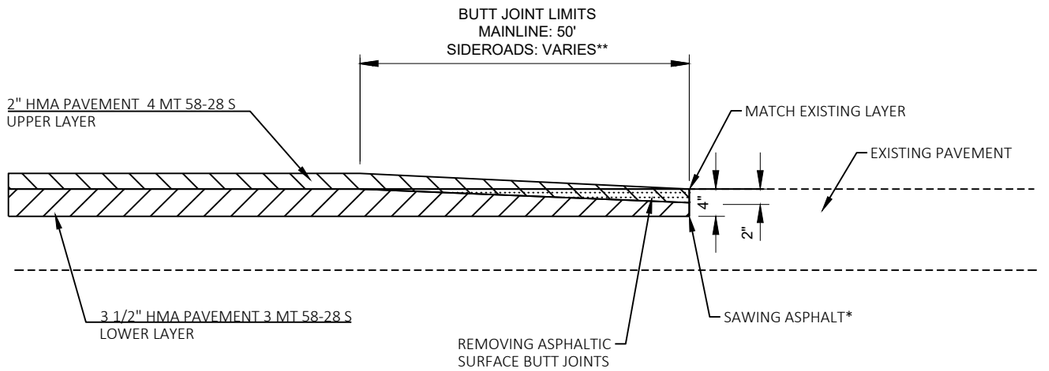
FINISHED TYPICAL SECTION

FOUR-LANE DIVIDED SUPERELEVATED SECTIONS

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	FINISHED TYPICAL SECTIONS	SHEET 10	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\020401-TS.DWG
LAYOUT NAME - 04-fts
PLOT DATE : 1/31/2022 9:08 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

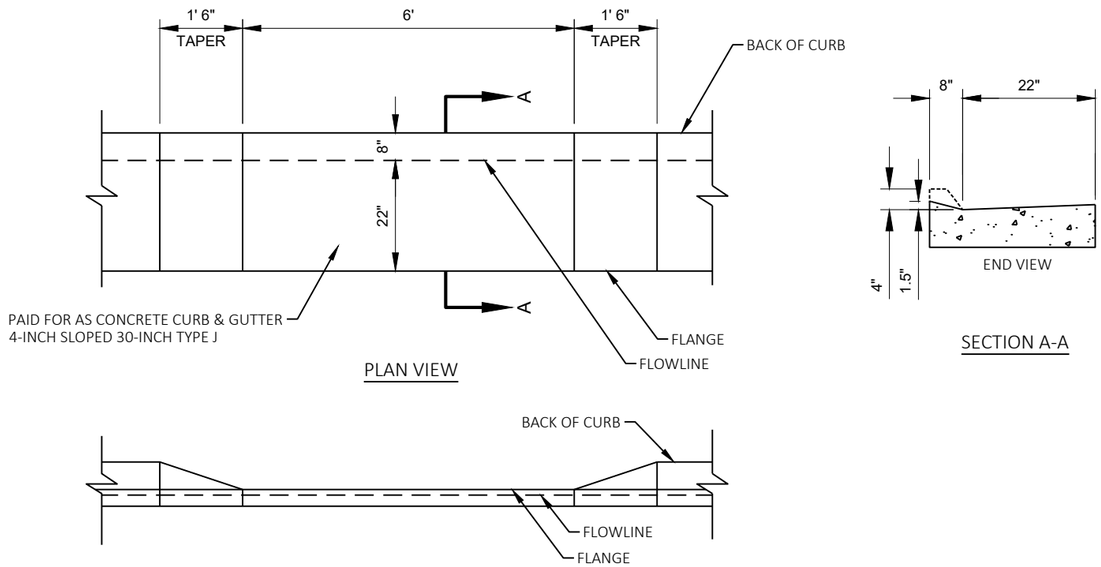


NOTES

* LOCATION FOR MATCH POINT TO BE DETERMINED IN FIELD BY PROJECT ENGINEER

** SEE PLAN DETAILS FOR BUTT JOINT LENGTH

BUTT JOINT DETAIL



PLAN VIEW

SECTION A-A

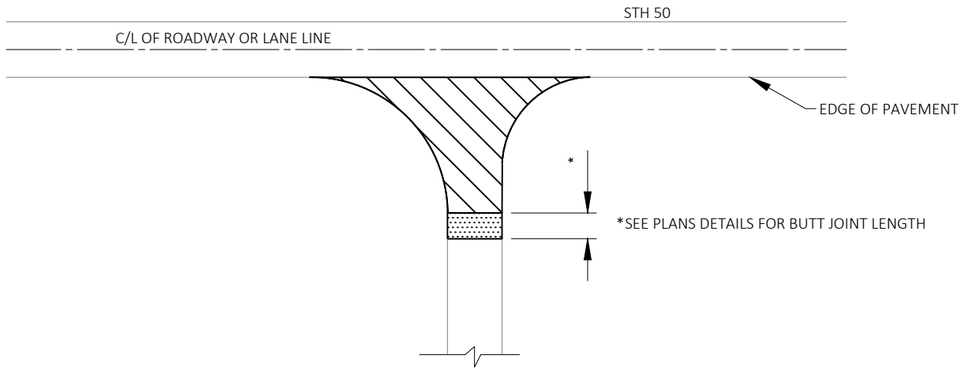
PROFILE VIEW

MAINTENANCE OPENING DETAIL

STA 422+26 RT

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CONSTRUCTION DETAILS	SHEET 11	E

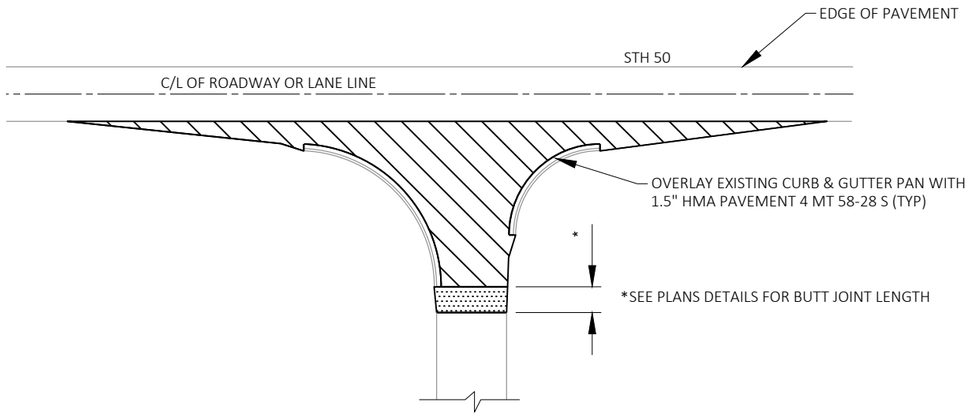
2



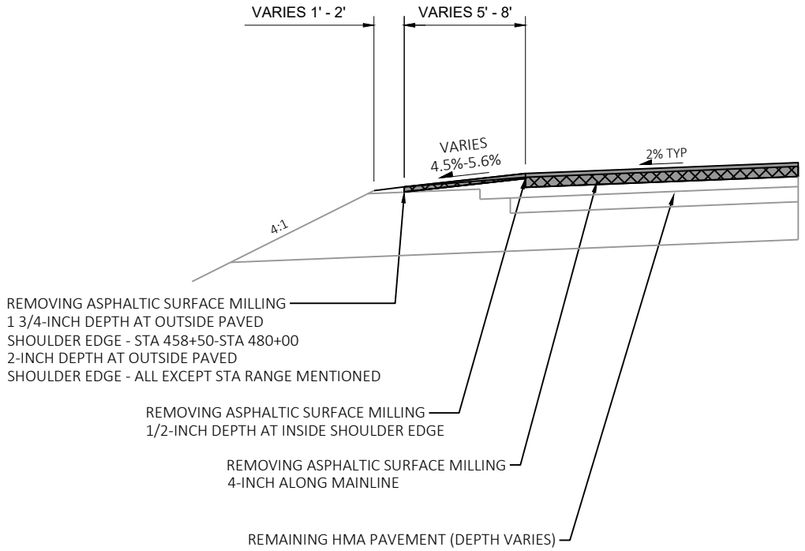
INTERSECTION MILLING WITHOUT CURB AND GUTTER DETAIL

REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS



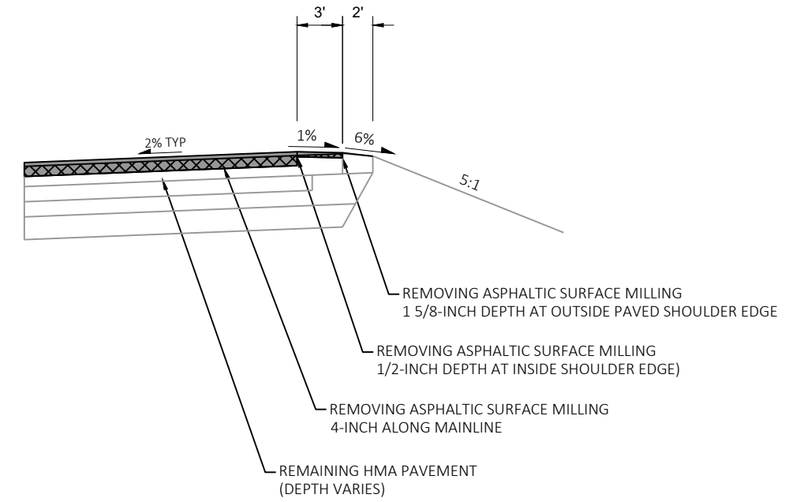
INTERSECTION MILLING WITH CURB AND GUTTER DETAIL



REMOVING ASPHALTIC SURFACE MILLING

VARIABLE DEPTH MILLING OUTSIDE SHOULDER

(NON-SUPERELEVATED LOCATIONS)

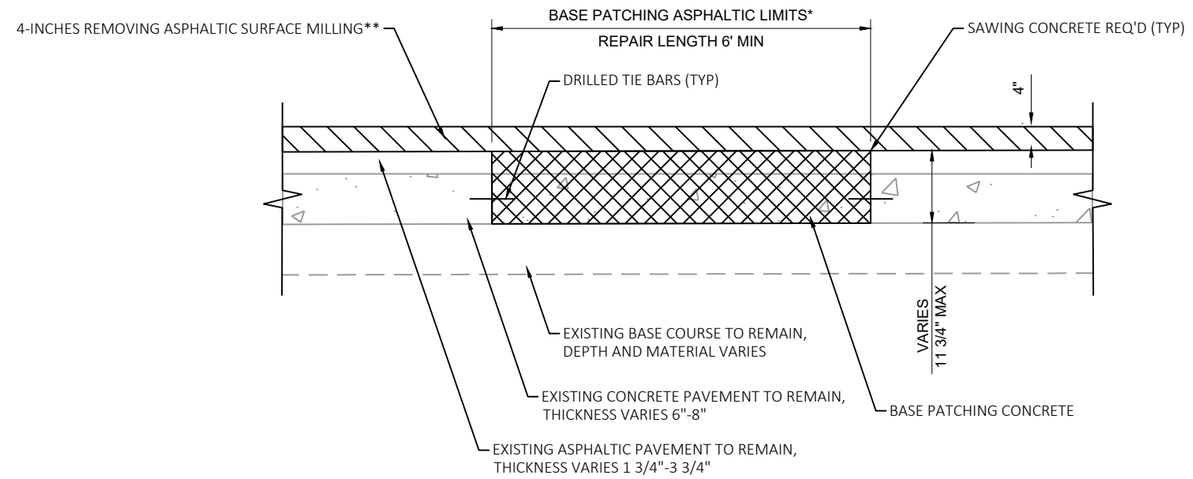


REMOVING ASPHALTIC SURFACE MILLING

VARIABLE DEPTH MILLING INSIDE SHOULDER

(NON-SUPERELEVATED LOCATIONS)

2



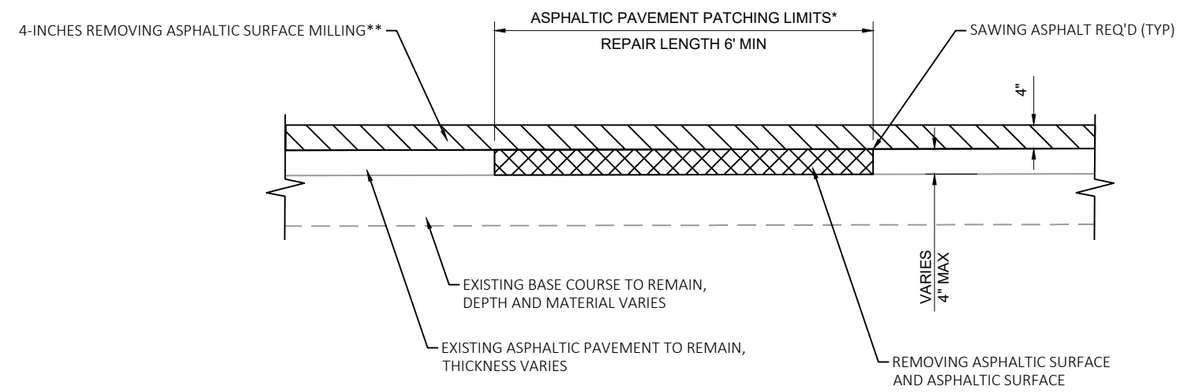
BASE PATCHING CONCRETE DETAIL

STA 383+00 - STA 421+00

NOTES

* ALL LOCATIONS AND LIMITS OF BASE PATCHING CONCRETE ARE TO DETERMINED BY THE ENGINEER IN THE FIELD.

** BASE PATCHING CONCRETE TO BE COMPLETED AFTER REMOVING ASPHALTIC SURFACE MILLING.



ASPHALTIC PAVEMENT REPAIR DETAIL

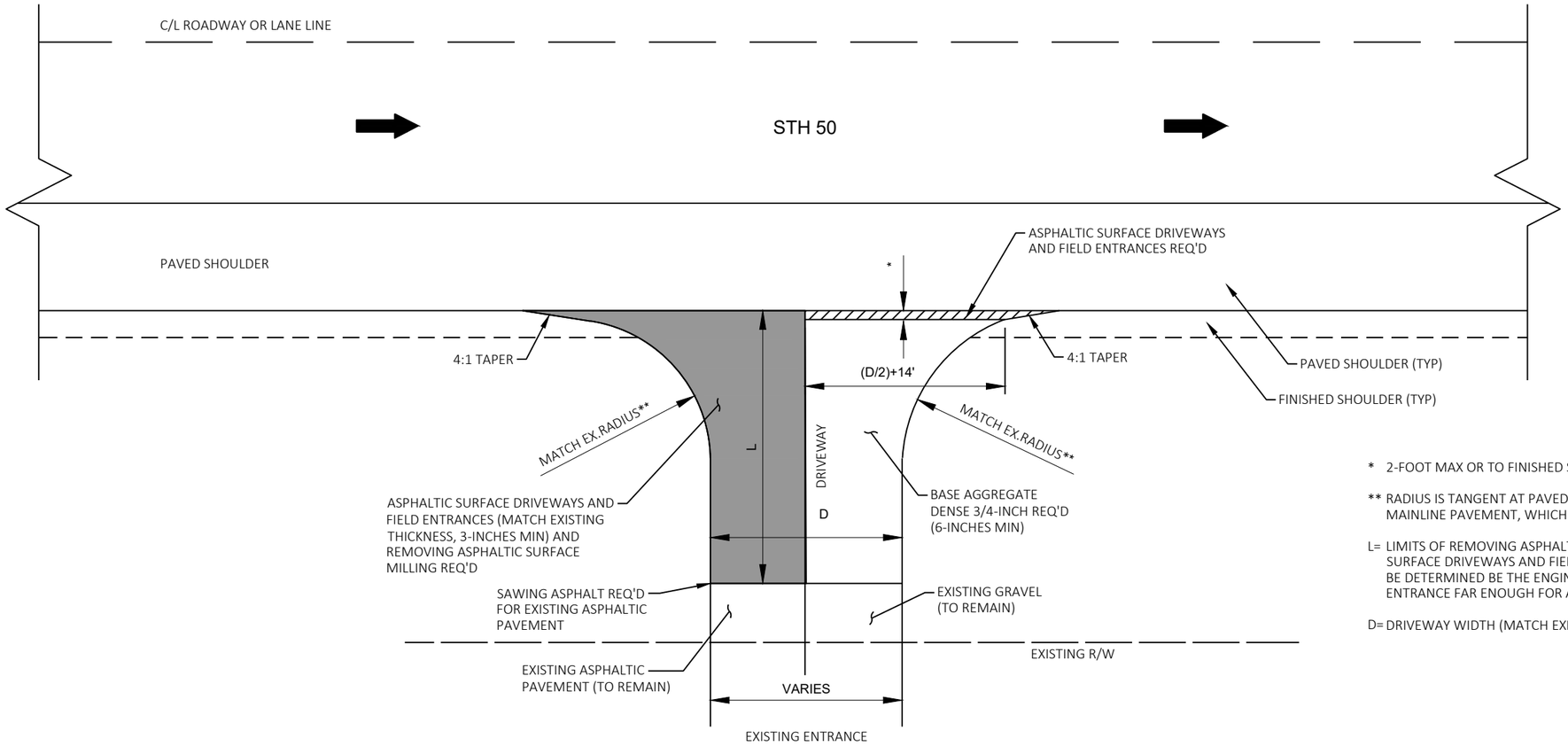
STA 373+63 - STA 383+00
STA 421+00 - STA 620+32

NOTES

* ALL LOCATIONS AND LIMITS OF ASPHALTIC PAVEMENT REPAIR ARE TO DETERMINED BY THE ENGINEER IN THE FIELD.

** ASPHALTIC PAVEMENT REPAIR TO BE COMPLETED AFTER REMOVING ASPHALTIC SURFACE MILLING.

2



PLAN VIEW

* 2-FOOT MAX OR TO FINISHED SHOULDER, WHICHEVER IS LESS.

** RADIUS IS TANGENT AT PAVED SHOULDER EDGE OR 10' OFF OF MAINLINE PAVEMENT, WHICHEVER IS LESS.

L= LIMITS OF REMOVING ASPHALTIC SURFACE AND ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, EXACT LENGTH TO BE DETERMINED BE THE ENGINEER IN THE FIELD. BLEND BACK THE ENTRANCE FAR ENOUGH FOR A SMOOTH PROFILE TRANSITION.

D= DRIVEWAY WIDTH (MATCH EXISTING)

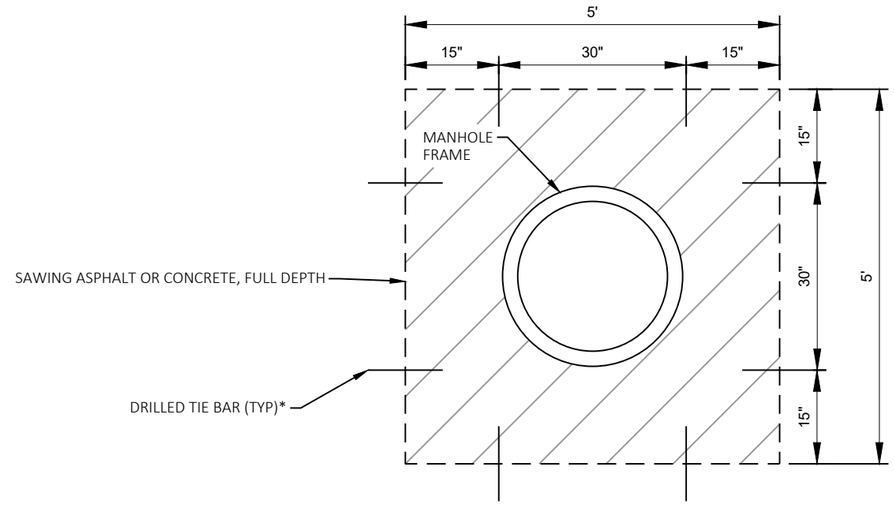
NOTE

SEE PLAN SHEETS FOR SPECIFIC LOCATIONS

RURAL DRIVEWAY DETAIL

2

TO BE PAID FOR AS REMOVING ASPHALTIC SURFACE



PLAN VIEW

NOTE

* DRILLED TIE BARS ARE NOT REQUIRED IN ASPHALTIC PAVEMENT

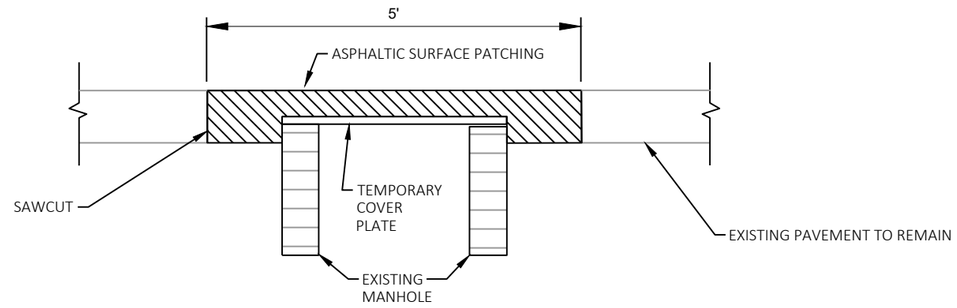
STEP 1

PRIOR TO REMOVING CONCRETE SURFACE PARTIAL DEPTH

- SAW PAVEMENT FULL DEPTH
- REMOVE MANHOLE COVER
- FURNISH AND INSTALL TEMPORARY COVER PLATE
- BACKFILL USING ASPHALT SURFACE PATCHING

MANHOLE LOCATIONS (APPROXIMATE)

- STA 617+74, 23' LT
- STA 617+91, 61' LT
- STA 618+28, 6' LT

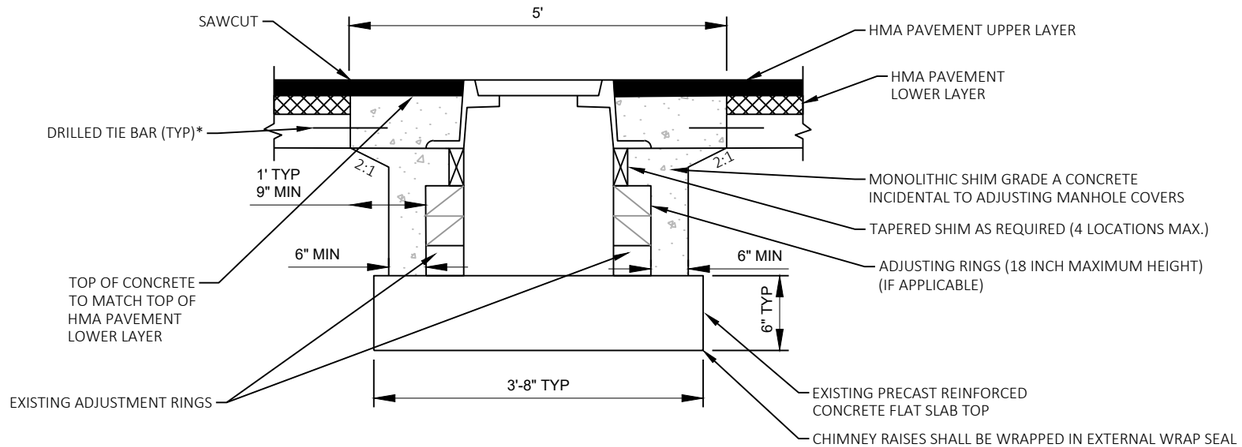


STEP 2

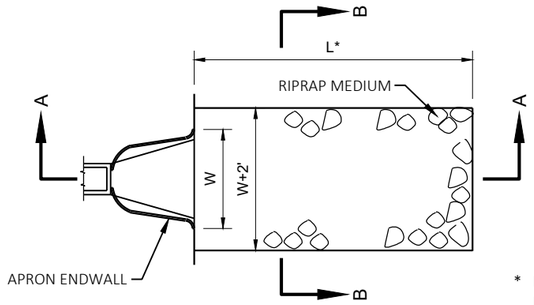
AFTER PAVING LOWER LAYER:

- EXCAVATE AND REMOVE TEMPORARY COVER PLATE
- ADJUST AND REINSTALL MANHOLE FRAME OR INSTALL NEW CASTING. ENGINEER IN FIELD TO DETERMINE CONDITION OF EXISTING FRAME.
- AND COVER USING MONOLITHIC CONCRETE SHIM

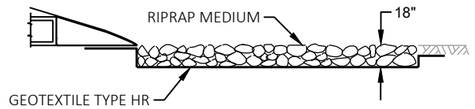
ASPHALT SURFACE PATCHING, SAWING ASPHALT OR CONCRETE, DRILLED TIE BARS, AND INSTALLATION AND REMOVAL OF COVER PLATE TEMPORARY NOT INCLUDED IN THE COST OF ADJUSTING MANHOLE COVERS.



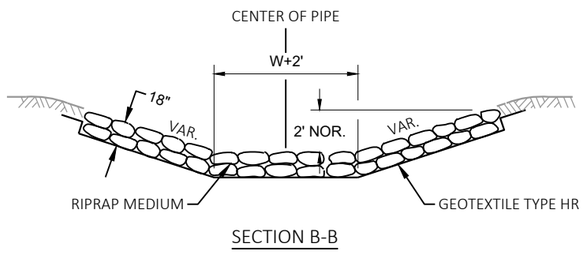
ADJUSTING MANHOLE COVERS DETAIL



* L = 2W OR 10' MIN OR AS DIRECTED BY THE ENGINEER

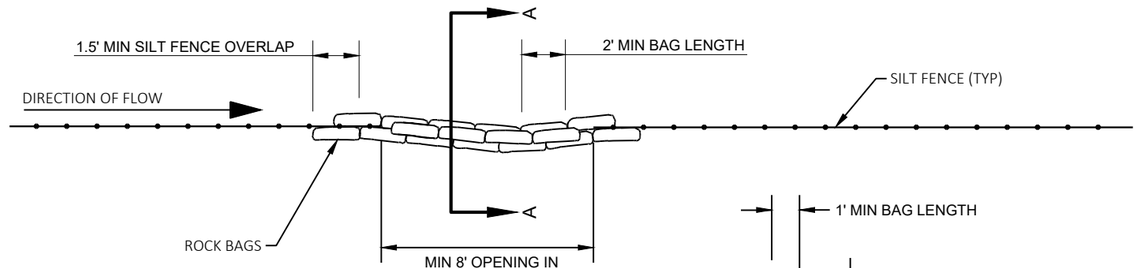


SECTION A-A



SECTION B-B

RIPRAP MEDIUM AND GEOTEXTILE FABRIC AT APRON ENDWALLS DETAIL

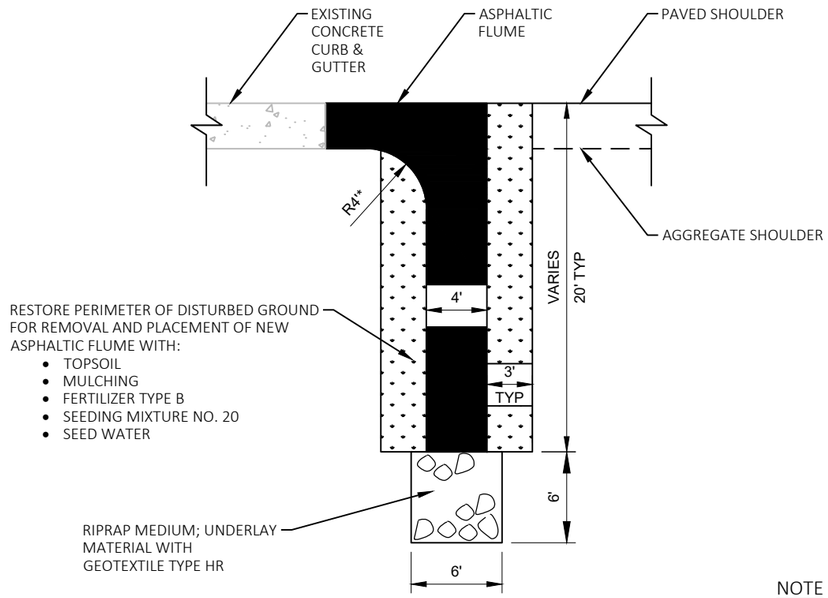


NOTE

17 ROCK BAGS MINIMUM PER 8' OPENING

SECTION A-A

SILT FENCE RELIEF DETAIL



NOTE

* ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

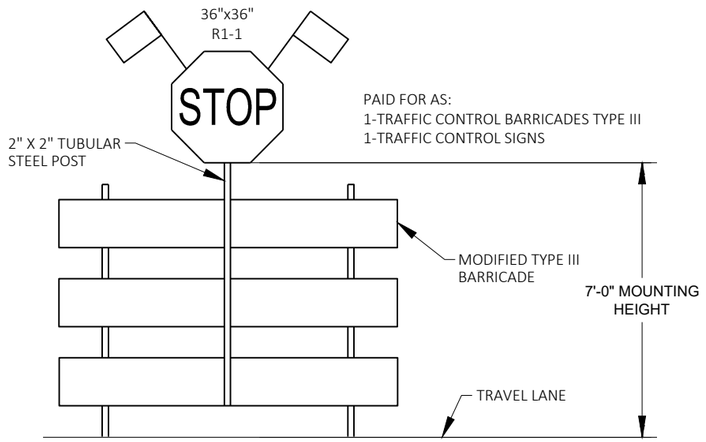
ASPHALTIC FLUME EROSION CONTROL AND RESTORATION DETAIL

2

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

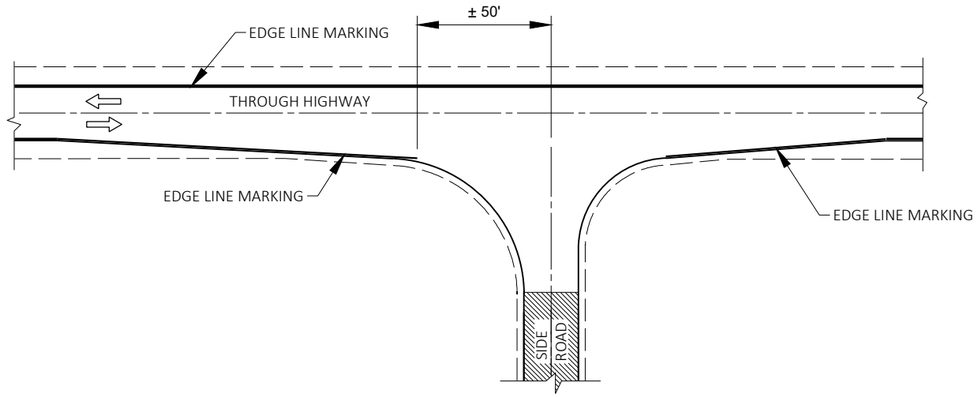
TOTAL PROJECT AREA = 60.60 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 41.12 ACRES

RUNOFF COEFFICIENT TABLE



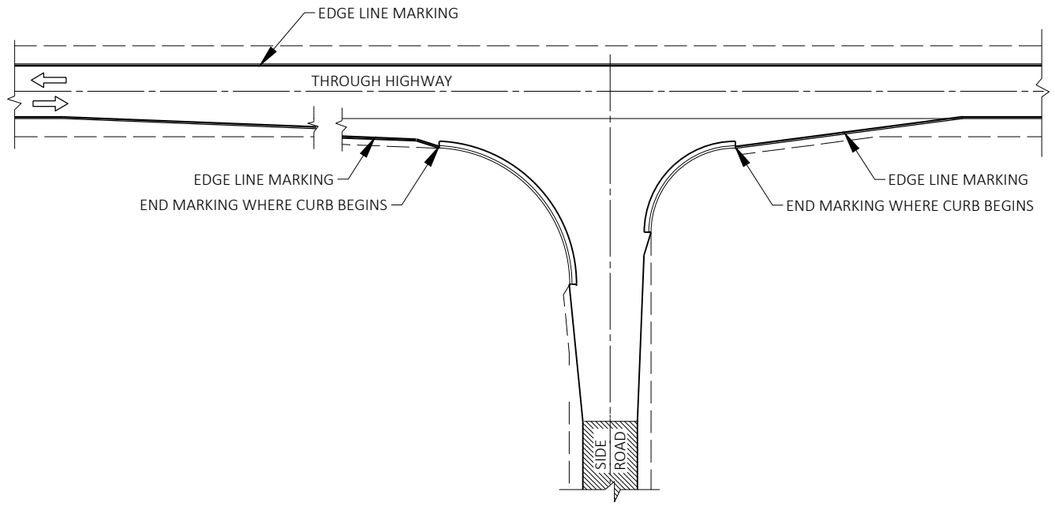
TEMPORARY STOP SIGN DETAIL

2



MINOR INTERSECTION WITHOUT CURBS DETAIL

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS DETAIL

(TYPICAL MARKING)

2

2

N

BEGIN CONSTRUCTION
STA 272+80.00

50

WETLAND BOUNDARY

R/L STH 50

266 268 270 272 274 276 278 280

STH 50

BOX CULVERT
C-64-0086
REPAIR SOUTH HEADWALL;
SEE STRUCTURE PLANS

CAUTION

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	ΛΛΛΛΛΛΛΛΛΛ	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 20	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 01-pd
PLOT DATE : 3/18/2022 10:12 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

50

GENEVA NATIONAL AVE W

EXISTING R/W

B1

RAISED MEDIAN WITH GRASS TO REMAIN

R/L STH 50

STH 50

370

372

374

376

378

380

382

384

IC

EXISTING R/W

BEGIN PROJECT
STA 373+63.00
SAWCUT AND MATCH
EXISTING PAVEMEMT

CAUTION

MATCH LINE STA 385+00

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXX	SAWING ASPHALT	AAAAAAAAAA	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 21	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 02-pd

PLOT DATE : 3/18/2022 10:12 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCH LINE STA 385+00

MATCH LINE STA 400+50

N

50

REMOVING GUARDRAIL
STA 393+69 TO STA 397+74

+95.00
20.00' RT

+65.00
17.00' RT

B1

R/L STH 50

OVERLAY PAN OF
EXISTING CURB
& GUTTER

EXISTING R/W

386 388 390 392 STH 50 394 396 398 400

15:1 TAPER

+20.00
18.00' RT

+95.00
22.94' RT

+48.09
18.00' RT

EXISTING R/W

SLOPE INTERCEPT

+53.90
18.00' RT

+58.90
25.00' RT

MGS GUARDRAIL, ENERGY
ABSORBING TERMINAL,
BEGIN EAT STA 391+95.00, 20.00' RT
END EAT STA 392+48.13, 18.00' RT;
BARRIER SYSTEM GRADING
SHAPING FINISHING FOR FULL SYSTEM

CAUTION

MGS GUARDRAIL 3
STA 392+48 TO STA 392+95
STA 396+59 TO STA 397+17
MGS GUARDRAIL 3 K
STA 392+95 TO STA 396+59

MGS GUARDRAIL, ENERGY
ABSORBING TERMINAL,
BEGIN EAT STA 397+70.00, 27.00' RT
END EAT STA 397+16.87, 25.00' RT

SAWCUT AND MATCH
EXISTING PAVEMENT

XXXXX

HARRIS RD

10'

PLACE GUARDRAIL MOW
STRIP EMULSIFIED ASPHALT
STA 391+95 TO STA 396+59

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	ΛΛΛΛΛΛΛΛΛ	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 22	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 03-pd

PLOT DATE : 3/18/2022 10:12 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCH LINE STA 400+50

MATCH LINE STA 415+75

50

PLACE GUARDRAIL MOW
STRIP EMULSIFIED ASPHALT
STA 404+70 TO STA 419+56

MGS GUARDRAIL, ENERGY
ABSORBING TERMINAL,
BEGIN EAT STA 404+70.17, 20.00' LT
END EAT STA 405+23.30, 18.00' LT;
BARRIER SYSTEM GRADING
SHAPING FINISHING FOR FULL SYSTEM

MGS GUARDRAIL 3
STA 405+23 TO STA 408+20
MGS GUARDRAIL 3 K
STA 408+20 TO STA 418+30

R/L STH 50

EXISTING R/W

SLOPE INTERCEPT

B1

+70.03
-25.94' LT

+37.84
-22.60' LT

10:1
TAPER

+23.13
-21.94' LT

+23.82
-18.00' LT

402

404

406

408

410

412

414

STH 50

+59.33
-18.65' LT

+70.17
-20.55' LT

REMOVING GUARDRAIL
STA 405+55 - STA 420+06

CAUTION

CAUTION

EXISTING R/W

GUY

OH

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	AAAAAAAAAA	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 23	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 04-pd

PLOT DATE : 3/18/2022 10:12 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

CAUTION

HIGH VOLTAGE POWER LINE

PLACE GUARDRAIL MOW STRIP EMULSIFIED ASPHALT STA 404+70 TO STA 419+56

MGS GUARDRAIL, ENERGY ABSORBING TERMINAL, BEGIN EAT STA 420+08.60, 28.81' LT END EAT STA 419+55.85, 22.53' LT

MGS GUARDRAIL 3 K STA 408+20 TO STA 418+30
MGS GUARDRAIL 3 STA 418+30 TO STA 419+56

SLOPE INTERCEPT

REMOVING CURB & GUTTER (SEE TRAFFIC CONTROL DETAILS), STA 422+04 TO STA 428+21 WB DIRECTION STA 422+04 TO STA 422+31 EB DIRECTION

CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE J STA 422+07 TO STA 428+21 WB DIRECTION STA 422+07 TO STA 422+31 EB DIRECTION

MATCH LINE STA 415+75

MATCH LINE STA 431+00

50

STH 50

EXISTING R/W

EXISTING R/W

15:1 TAPER

R1405'

R/L STH 50

+99.84 -21.94' LT

+58.63 -26.82' LT

+08.12 -34.73' LT

+26.76 -36.38' LT

+06.97 -19.17' LT

+50.00 -19.21' LT

+20.73 -10.15' LT

+00.00 -18.00' LT

+55.85 -22.53' LT

+38.71 -28.24' LT

+08.60 -28.81' LT

+30.99 -10.18' LT

CONCRETE MEDIAN SLOPED NOSE, TYPE 2; STA 422+04

416 418 420 422 424 426 428 430

B1 IC IC B1

CAUTION

LEGEND

MILL AND OVERLAY	AF REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1 BASE AGGREGATE DENSE 3/4-INCH
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC ADJUSTING INLET COVERS
ASPHALTIC SHOULDER RUMBLE STRIPS	MC ADJUSTING MANHOLE COVERS
XXXXXXXXXX SAWING ASPHALT	ΛΛΛΛΛΛΛΛΛΛ SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 24	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 05-pd

PLOT DATE : 3/18/2022 10:13 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

C-64-0087
CULVERT REPAIR NE WINGWALL, NORTH HEADWALL; SEE STRUCTURE PLANS

SAWCUT AND MATCH EXISTING PAVMENT

PRESERVE CT

10'

XXXX

EXISTING R/W

50

B1

R/L STH 50

STH 50

+56

+52

+66

+52

+68

432 434 436 438 440 442 444 446

MATCH LINE STA 431+00

MATCH LINE STA 446+25

E

G

G

EXISTING R/W

GV

GV

AF

GENEVA ST

IC

B1

EXISTING R/W

XX

CAUTION

XXXXX

SAWCUT AND MATCH EXISTING PAVMENT

10'

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	ΛΛΛΛΛΛΛΛΛΛ	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 25	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 06-pd

PLOT DATE : 3/18/2022 10:13 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MATCH LINE STA 446+25

MATCH LINE STA 461+50

SANCTUARY GLEN DR

SAWCUT AND MATCH
EXISTING PAVMENT

10'

XXX

50

EXISTING R/W

XX

R/L STH 50

INTERLAKEN DR

XXXXX

B1

STH 50

+40

448

450

452

454

456

458

460

+04

+00

+75

+60

+34

XXX

XX

AF

AF

XXXXX

10'

KNOLLWOOD DR

EXISTING R/W

SAWCUT AND MATCH
EXISTING PAVEMENT

ACCESS RD

EXISTING R/W

LEGEND

MILL AND OVERLAY	AF — REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1 — BASE AGGREGATE DENSE 3/4-INCH
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC — ADJUSTING INLET COVERS
ASPHALTIC SHOULDER RUMBLE STRIPS	MC — ADJUSTING MANHOLE COVERS
XXXXXXXXXX SAWING ASPHALT	ΛΛΛΛΛΛΛΛΛΛ SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 26	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 07-pd

PLOT DATE : 3/18/2022 10:13 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA 461+50

MATCH LINE STA 476+75

50

R/L STH 50

SAWCUT AND MATCH EXISTING PAVEMENT

10'

XXXXX

EXISTING R/W

B1

AF

RED CHIMNEY RD

SAWCUT AND MATCH EXISTING PAVEMENT

EXISTING R/W

10'

XXX

STH 50

+96 462 464 +66 466 +13 468 +28 470 +01 472 474 476

+92 +60 +21 +16 +19 +18 +19

XXXX

AF

AF

ACCESS RD

10'

XXXX

CISCO RD

SAWCUT AND MATCH EXISTING PAVEMENT

EXISTING R/W

WINDWOOD LN

LEGEND

MILL AND OVERLAY	AF REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1 BASE AGGREGATE DENSE 3/4-INCH
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC ADJUSTING INLET COVERS
ASPHALTIC SHOULDER RUMBLE STRIPS	MC ADJUSTING MANHOLE COVERS
XXXXXXXXXX SAWING ASPHALT	AAAAAAAAAA SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 27	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 08-pd

PLOT DATE : 3/18/2022 10:13 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

EXISTING R/W

50

S COMO RD

10'

XXXX

SAWCUT AND MATCH
EXISTING PAVEMENT

AF

EXISTING R/W

B1

XXXX

R/L STH 50

MATCH LINE STA 476+75

478

+35

480

482

STH 50

484

+39

486

+00

488

+30

490

+28

XXXXXX

OH

MATCH LINE STA 492+00

AF

IC

AF

XXXX

10'

ELGIN CLUB RD

SAWCUT AND MATCH
EXISTING PAVEMENT

EXISTING R/W

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	XXXXXXXXXX	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 28	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 09-pd

PLOT DATE : 3/18/2022 10:13 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

50

MATCH LINE STA 492+00

MATCH LINE STA 507+25

EXISTING R/W

WETLAND BOUNDARY

OH

B1

XX

R/L STH 50

STH 50

+14 +84 +65 +90 +08 +25

494 496 498 500 502 504 506

+00 +42 +15 +30 +90 +08

XX XXX YY XX X B1 XX

GUY

EXISTING R/W

EXISTING R/W

EXISTING R/W

CENTRAL DR

SUNSET PARK DR

SOUTH END RD

KENYARD DR

KENYON DR

BUBLITZ RD

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	ΛΛΛΛΛΛΛΛΛ	SAWING CONRCETE

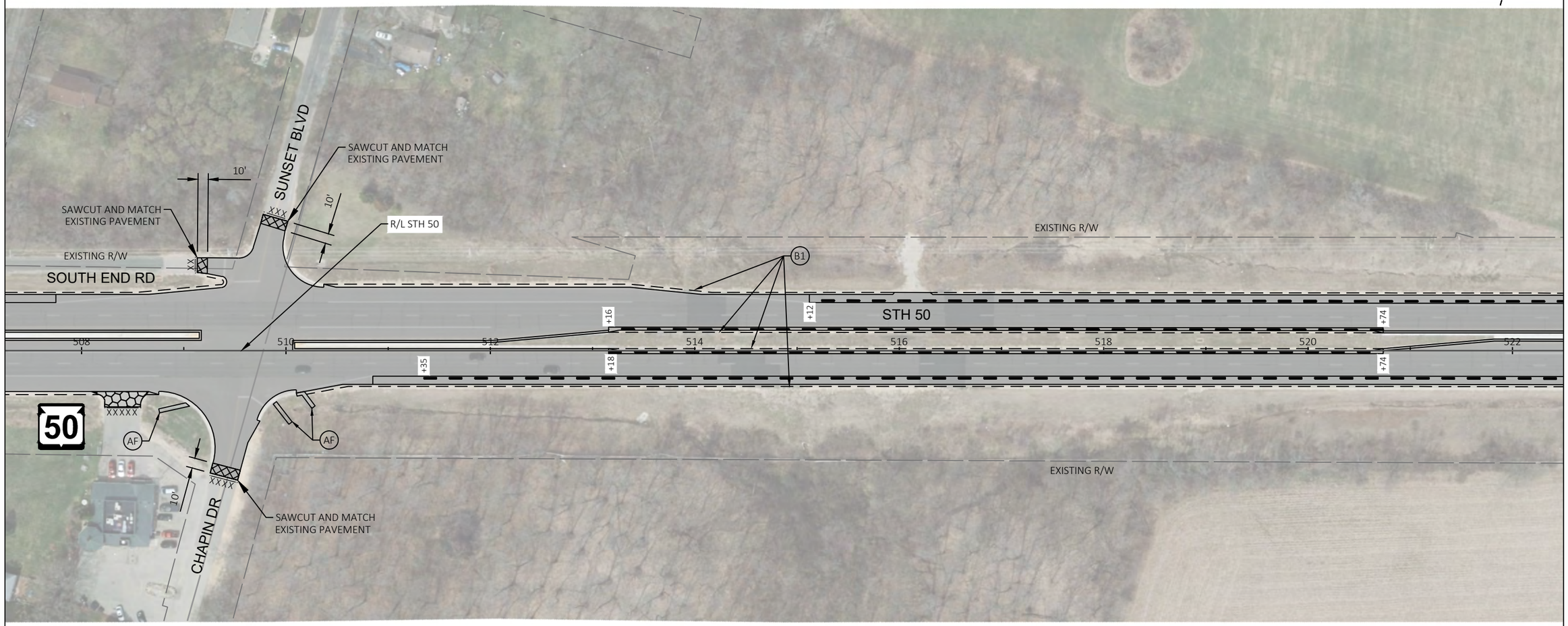
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 29	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 10-pd

PLOT DATE : 3/18/2022 10:13 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	ΔΔΔΔΔΔΔΔΔΔ	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 30	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 11-pd
PLOT DATE : 3/18/2022 10:15 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

50

STH 50

EXISTING R/W

R/L STH 50

MATCH LINE STA 522+50

MATCH LINE STA 537+75

524 526 528 530 532 534 536

+80 +62 +51 +51 +29 +63

XX XX XX

B1

AF

SAWCUT AND MATCH
EXISTING PAVEMENT

SCHOFIELD RD

10'

XXXX

EXISTING R/W

10'

XXXX

SAWCUT AND MATCH
EXISTING PAVEMENT

SNAKE RD

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	ΔΔΔΔΔΔΔΔΔΔ	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 31	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 12-pd

PLOT DATE : 3/18/2022 10:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCH LINE STA 537+75

MATCH LINE STA 553+00

50

EL DORADO DR

WOODLANE RD

EXISTING R/W

R/L STH 50

STH 50

AF

B1

XX

XXX

538 540 542 544 546 548 550 552

+11 +08 +55 +51 +48 +34 +33 +59 +97 +03

EXISTING R/W

LEGEND

MILL AND OVERLAY	AF REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1 BASE AGGREGATE DENSE 3/4-INCH
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC ADJUSTING INLET COVERS
ASPHALTIC SHOULDER RUMBLE STRIPS	MC ADJUSTING MANHOLE COVERS
XXXXXXXXXX SAWING ASPHALT	AAAAAAAAAA SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 32	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 13-pd

PLOT DATE : 3/18/2022 10:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

50

COACHMANS TER

15'

SAWCUT AND MATCH EXISTING PAVEMENT

XXXX

AF

B1

IC

B1

X

B1

XX

EXISTING R/W

STH 50

MATCH LINE STA 553+00

MATCH LINE STA 568+25

554 556 558 560 562 564 566 568

+99 +94 +41 +93 +37 +92 +85

+78 +99 +55 +35 +40 +83 +37

XX XX X

R/L STH 50

WELLS RD

EXISTING R/W

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	ΛΛΛΛΛΛΛΛΛ	SAWING CONRCETE

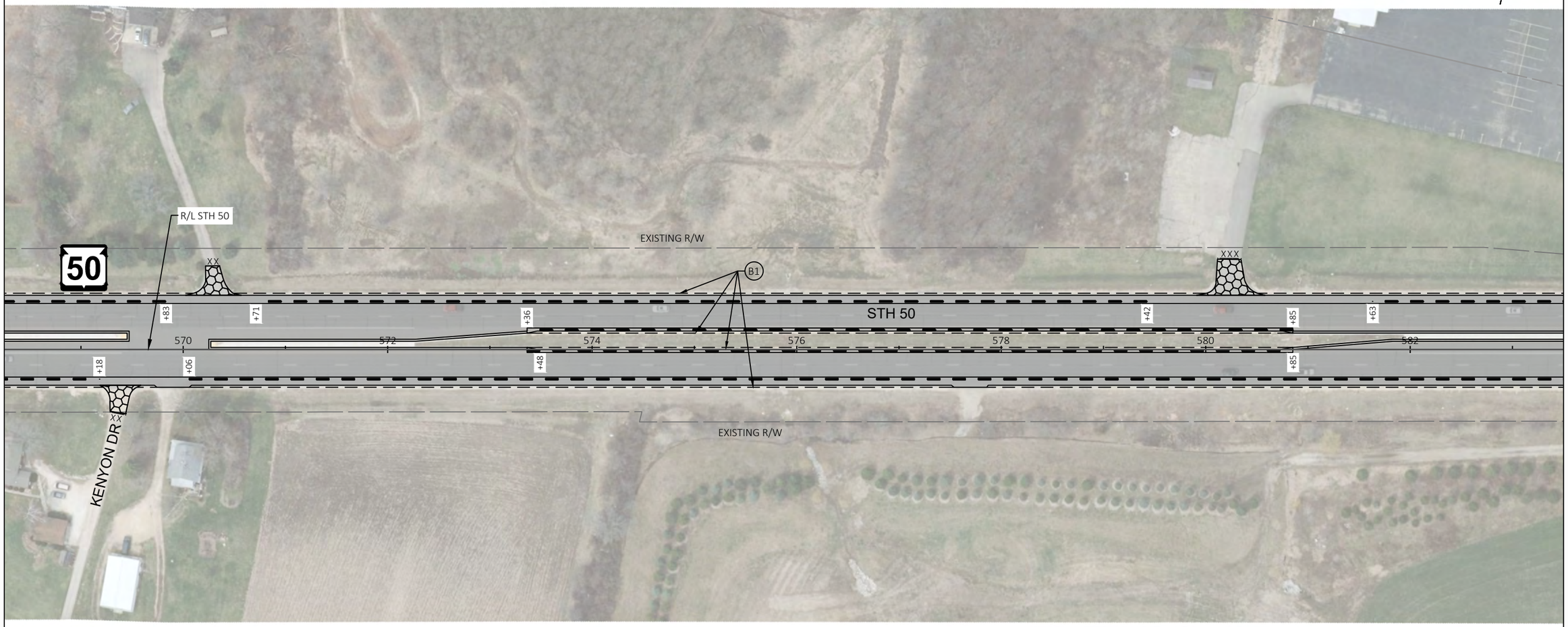
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 33	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 14-pd

PLOT DATE : 3/18/2022 10:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	AAAAAAAAAA	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 34	E

2

N

50

MATCH LINE STA 583+50

MATCH LINE STA 598+75

STH 50

EXISTING R/W

EXISTING R/W

R/L STH 50

BEGIN PAVED SHOULDER
FULL WIDTH, STA 598+40

10'

+62

+00

584

586

588

590

592

594

596

598

XXXXXX

XX

XXX

XX

B1

IC

IC

REMOVING CONCRETE SURFACE PARTIAL DEPTH
STA 589+18 TO STA 591+49
1" DEPTH

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	ΔΔΔΔΔΔΔΔΔΔ	SAWING CONRCETE

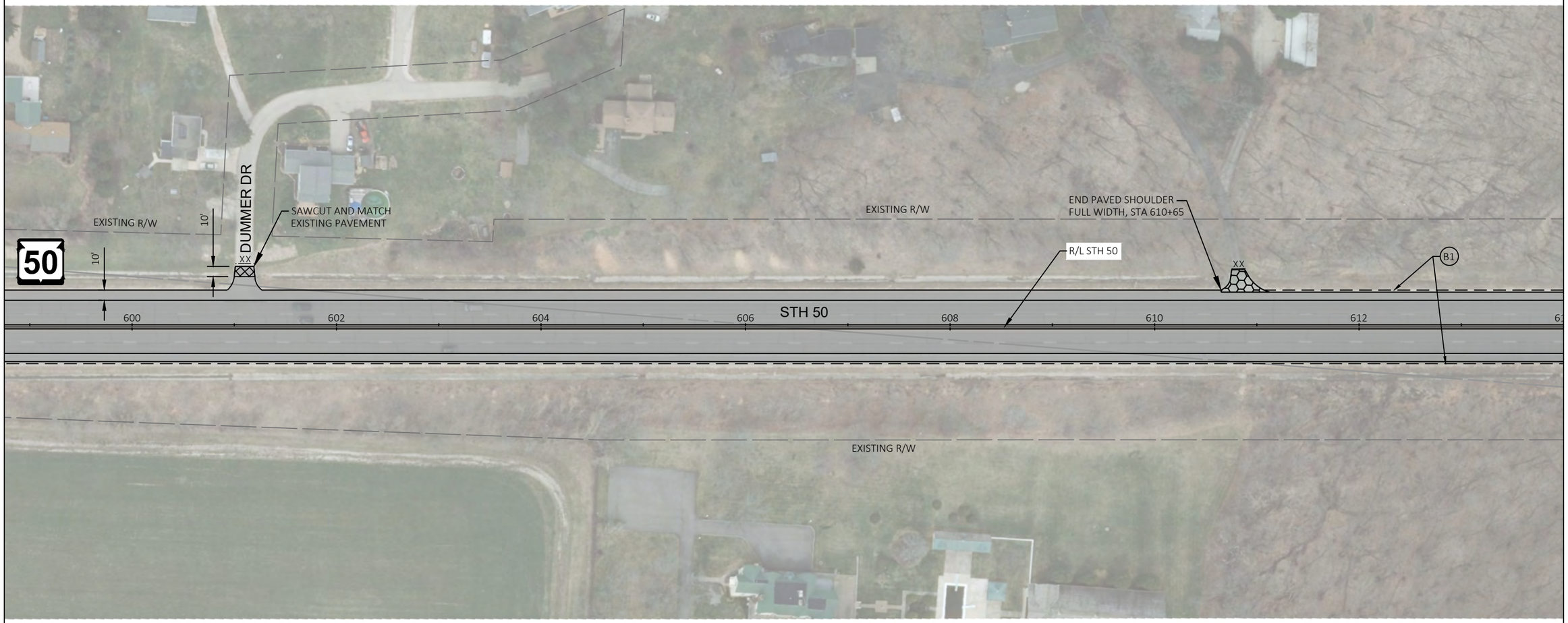
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 35	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 16-pd
PLOT DATE : 3/18/2022 10:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N



LEGEND

MILL AND OVERLAY	(AF) REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
REMOVING ASPHALTIC SURFACE BUTT JOINTS	(B1) BASE AGGREGATE DENSE 3/4-INCH
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	(IC) ADJUSTING INLET COVERS
ASPHALTIC SHOULDER RUMBLE STRIPS	(MC) ADJUSTING MANHOLE COVERS
XXXXXXXXXX SAWING ASPHALT	ΔΔΔΔΔΔΔΔΔΔ SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 36	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 17-pd

PLOT DATE : 3/18/2022 10:16 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA 614+00

EXISTING R/W

FOREST ST

10'

SAWCUT AND MATCH
EXISTING PAVEMENT

MC

XXX

EXISTING R/W

PEARSON DR

EXTEND BUTT JOINT TO
EXISTING INLET FRAME

B1

MC

STH 50

614

616

618

620

XXXXX

50

R/L STH 50

END PROJECT
STA 620+31.95
SAWCUT AND MATCH
EXISTING PAVEMENT

EXISTING R/W

XXXX

10'

SNAKE RD

SAWCUT AND MATCH
EXISTING PAVEMENT

EXISTING R/W

CAUTION

LEGEND

	MILL AND OVERLAY	AF	REMOVING SURFACE DRAIN/ ASPHALTIC FLUMES
	REMOVING ASPHALTIC SURFACE BUTT JOINTS	B1	BASE AGGREGATE DENSE 3/4-INCH
	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	IC	ADJUSTING INLET COVERS
	ASPHALTIC SHOULDER RUMBLE STRIPS	MC	ADJUSTING MANHOLE COVERS
XXXXXXXXXX	SAWING ASPHALT	AAAAAAAAAA	SAWING CONRCETE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PLAN DETAILS	SHEET 37	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\021200-PD.DWG
LAYOUT NAME - 18-pd
PLOT DATE : 3/18/2022 10:17 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

BEGIN CONSTRUCTION
STA 272+80.00

50

STH 50

266 268 270 272 274 276 278 280

R/L STH 50

C-64-0086

WETLAND BOUNDARY

LEGEND

- EROSION MAT CLASS II TYPE B
- INLET PROTECTION (TYPE X)
- SILT FENCE
- TEMPORARY DITCH CHECK
- EROSION BALES
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTES

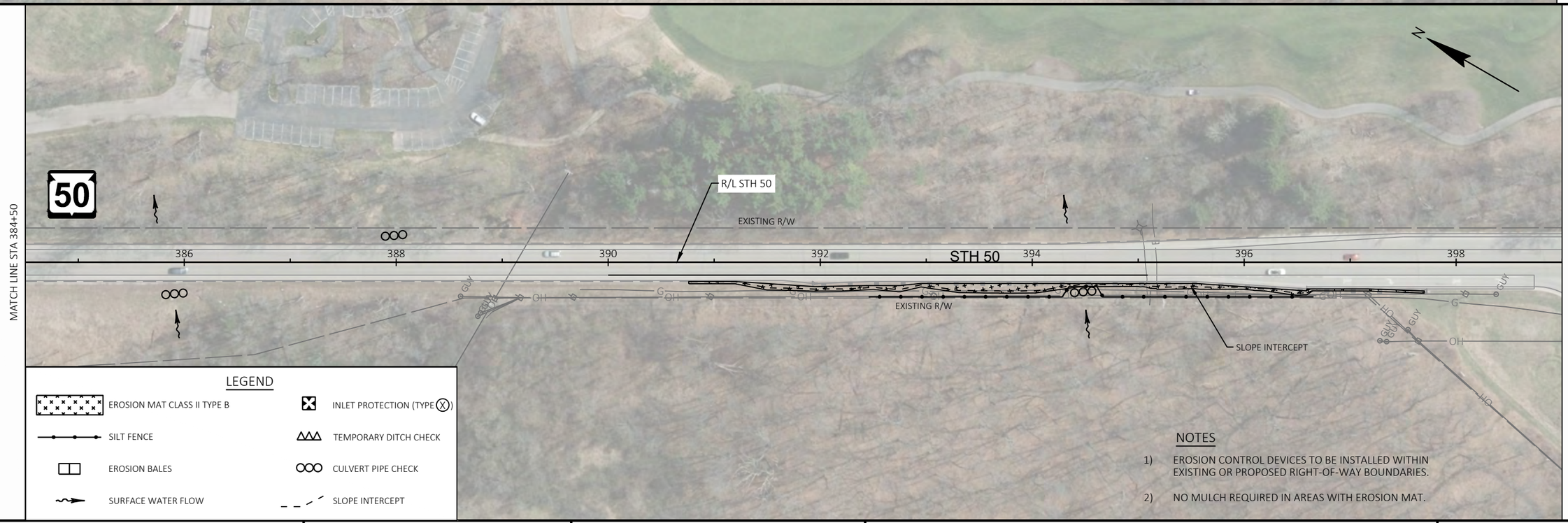
1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 38	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 01-ec
PLOT DATE : 1/30/2022 10:09 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





NOTES

1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 39	E

2

LEGEND

- EROSION MAT CLASS II TYPE B
- SILT FENCE
- EROSION BALES
- SURFACE WATER FLOW
- INLET PROTECTION (TYPE X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SLOPE INTERCEPT

50

MATCH LINE STA 399+00

HARRIS RD

400 402 404 406 408 410 412

STH 50

R/L STH 50

SILT FENCE RELIEF

SLOPE INTERCEPT

EXISTING R/W

EXISTING R/W

MATCH LINE STA 413+50

50

MATCH LINE STA 413+50

414 416 418 420 422 424 426

STH 50

R/L STH 50

SLOPE INTERCEPT

EXISTING R/W

EXISTING R/W

MATCH LINE STA 428+00

NOTES

1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 40	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 03-ec

PLOT DATE : 1/30/2022 10:09 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2



NOTES

1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 41	E

2

2

INTERLAKEN DR

50

EXISTING R/W

R/L STH 50

STH 50

458 460 462 464 466 468 470

MATCH LINE STA 457+00

MATCH LINE STA 471+50

N

ACCESS RD

RIPRAP MEDIUM
2 CY

CISCO RD

EXISTING R/W

RIPRAP MEDIUM
2 CY

RED CHIMNEY RD

EXISTING R/W

RIPRAP MEDIUM
2 CY

50

LEGEND

- EROSION MAT CLASS II TYPE B
- SILT FENCE
- EROSION BALES
- SURFACE WATER FLOW
- INLET PROTECTION (TYPE X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SLOPE INTERCEPT

S COMO RD

N

EXISTING R/W

RIPRAP MEDIUM
2 CY

RIPRAP MEDIUM
2 CY

R/L STH 50

STH 50

472 474 476 478 480 482 484

MATCH LINE STA 471+50

MATCH LINE STA 486+00

WINDWOOD LN

EXISTING R/W

RIPRAP MEDIUM
2 CY

RIPRAP MEDIUM
2 CY

ELGIN CLUB RD

EXISTING R/W

NOTES

1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 42	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 05-ec

PLOT DATE : 1/30/2022 10:09 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

2

LEGEND

- EROSION MAT CLASS II TYPE B
- SILT FENCE
- EROSION BALES
- SURFACE WATER FLOW
- INLET PROTECTION (TYPE X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SLOPE INTERCEPT

50

MATCH LINE STA 486+00

STH 50

486 488 490 492 494 496 498 500

MATCH LINE STA 500+50

R/L STH 50

EXISTING R/W

OH

GUY

WETLAND BOUNDARY

RIPRAP MEDIUM
4 CY

KENYARD DR

KENYON DR

N

50

MATCH LINE STA 500+50

CENTRAL DR

SUNSET PARK DR

SUNSET BLVD

SOUTH END RD

EXISTING R/W

STH 50

502 504 506 508 510 512 514

R/L STH 50

RIPRAP MEDIUM
2 CY

RIPRAP MEDIUM
2 CY

EXISTING R/W

BUBLITZ RD

CHAPIN DR

MATCH LINE STA 515+00

N

NOTES

1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 43	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 06-ec

PLOT DATE : 1/30/2022 10:10 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

2

MATCH LINE STA 515+00

MATCH LINE STA 529+50

EXISTING R/W

50

R/L STH 50

STH 50

516 518 520 522 524 526 528

EXISTING R/W

N

LEGEND

- EROSION MAT CLASS II TYPE B
- INLET PROTECTION (TYPE X)
- SILT FENCE
- TEMPORARY DITCH CHECK
- EROSION BALES
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT

RIPRAP MEDIUM
2 CY

SCHOFIELD RD

EL DORADO DR

EXISTING R/W

EXISTING R/W

RIPRAP MEDIUM
2 CY

50

R/L STH 50

STH 50

530 532 534 536 538 540 542

MATCH LINE STA 529+50

MATCH LINE STA 544+00

EXISTING R/W

EXISTING R/W

SNAKE RD

NOTES

1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 44	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 07-ec

PLOT DATE : 1/30/2022 10:10 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

MATCH LINE STA 544+00

MATCH LINE STA 558+50

MATCH LINE STA 558+50

MATCH LINE STA 573+00

WOODLANE RD

EXISTING R/W

50

R/L STH 50

STH 50

544 546 550 552 554 556 558

EXISTING R/W

N

LEGEND

- EROSION MAT CLASS II TYPE B
- INLET PROTECTION (TYPE X)
- SILT FENCE
- TEMPORARY DITCH CHECK
- EROSION BALES
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT

COACHMANS TER

RIPRAP
MEDIUM
2 CY

EXISTING R/W

R/L STH 50

STH 50

560 562 564 566 568 570 572

50

WELLS RD

EXISTING R/W

KENYON DR

N

NOTES

1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 45	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 08-ec

PLOT DATE : 1/30/2022 10:10 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

2

MATCH LINE STA 573+00

MATCH LINE STA 587+50

50

EXISTING R/W

R/L STH 50

STH 50

574 576 578 580 582 584 586

EXISTING R/W

N

LEGEND

- EROSION MAT CLASS II TYPE B
- SILT FENCE
- EROSION BALES
- SURFACE WATER FLOW
- INLET PROTECTION (TYPE X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SLOPE INTERCEPT

MATCH LINE STA 587+50

MATCH LINE STA 602+00

50

EXISTING R/W

R/L STH 50

STH 50

588 590 592 594 596 598 600

EXISTING R/W

N

DUMMER DR

NOTES

1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

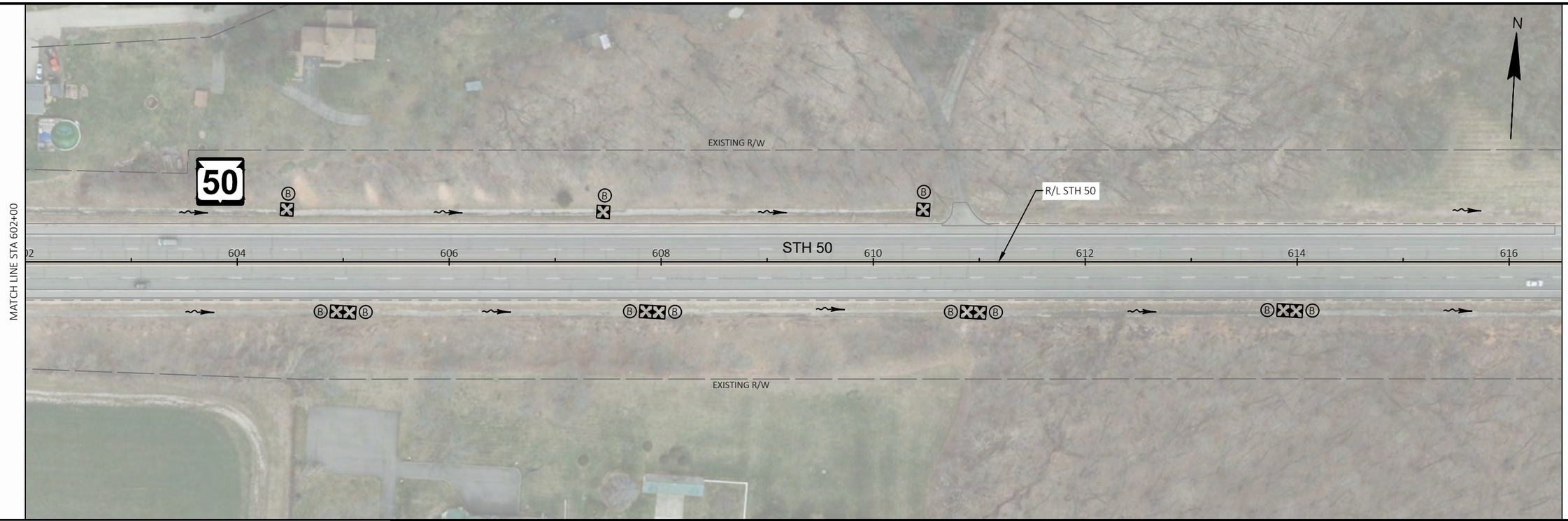
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 46	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 09-ec

PLOT DATE : 1/30/2022 10:10 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

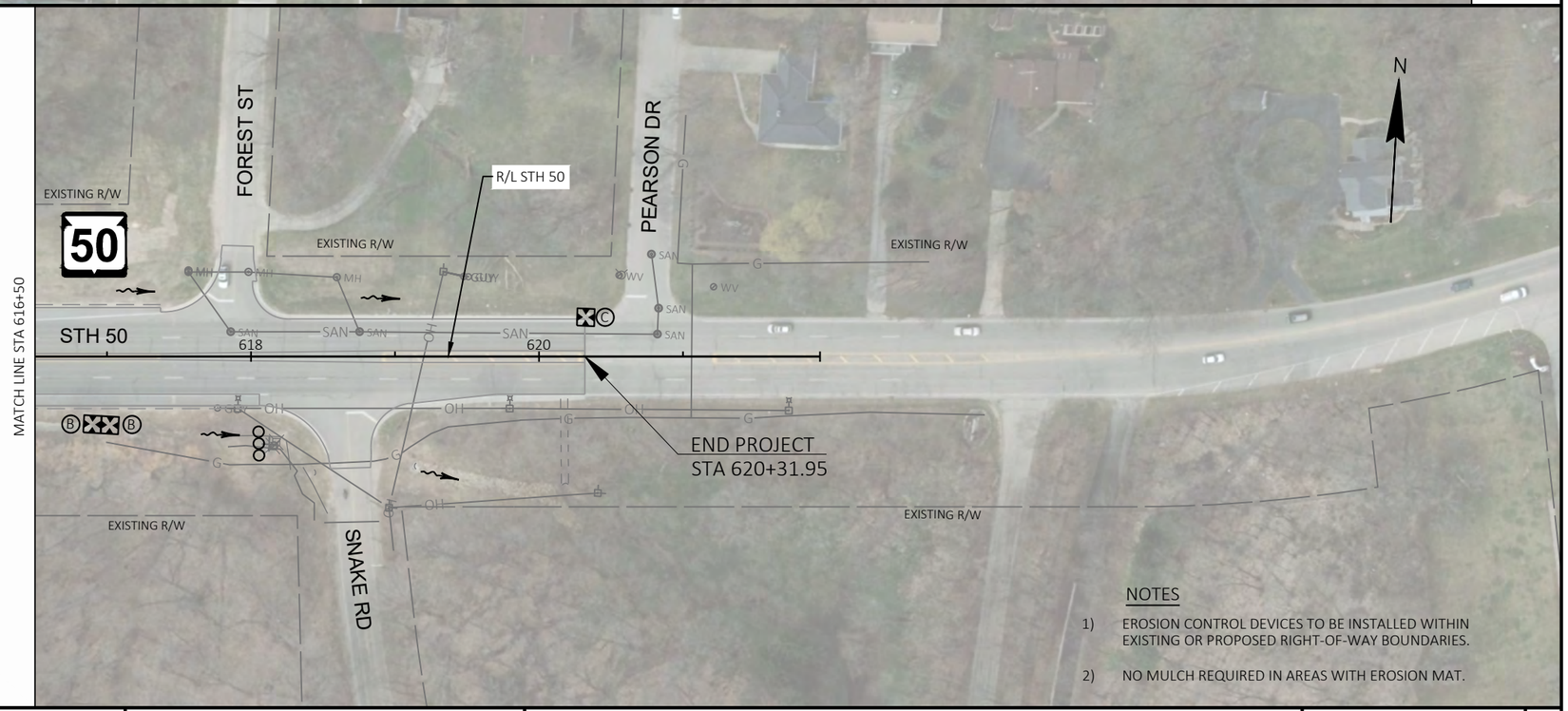
2



2

LEGEND

- EROSION MAT CLASS II TYPE B
- INLET PROTECTION (TYPE X)
- SILT FENCE
- TEMPORARY DITCH CHECK
- EROSION BALES
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT



NOTES

1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.

2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	EROSION CONTROL	SHEET 47	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 10-ec

PLOT DATE : 1/30/2022 10:10 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

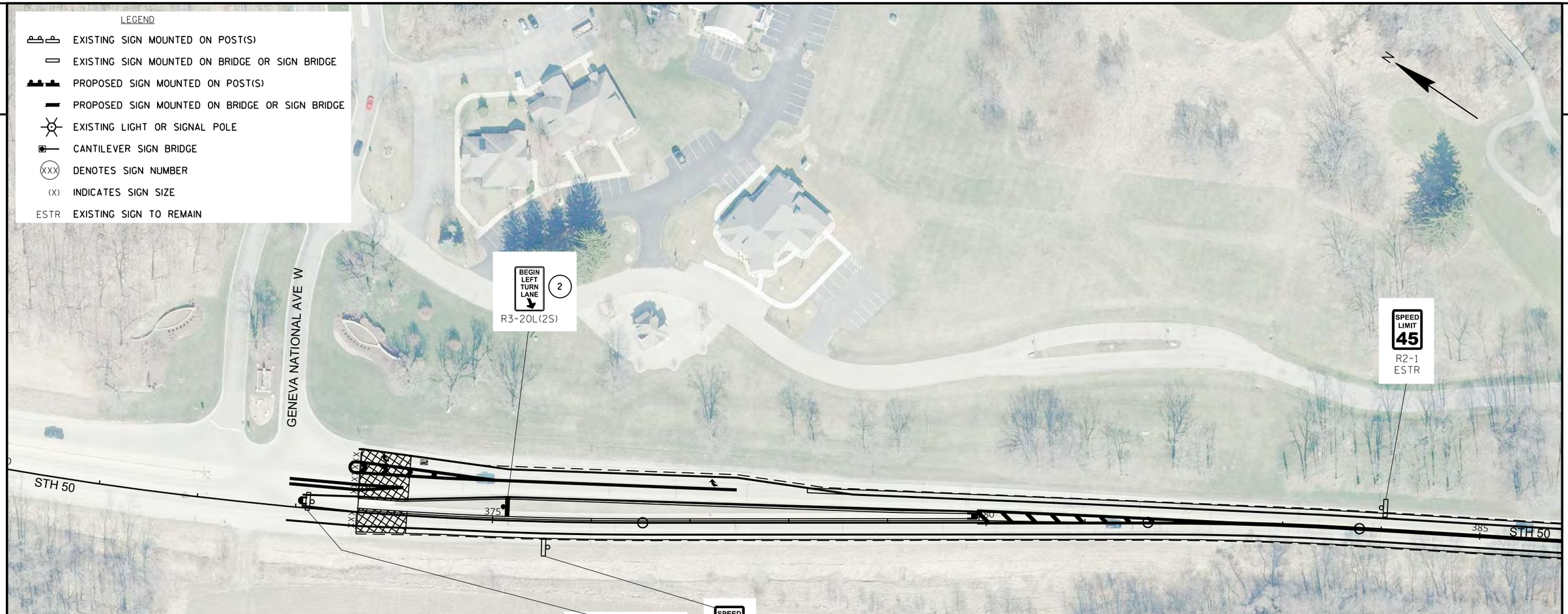
WISDOT/CADDS SHEET 44

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



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

NOTE:
SIGNS NOT IMPACTED BY CONSTRUCTION NOT SHOWN OTHER THAN SPEED LIMIT SIGNS. MISC QTYS HAVE UNDISTRIBUTED AMOUNT OF MOVE SIGNS AS NEEDED.

SHEET 1 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 48	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 01

PLOT DATE : 1/18/2022 6:46 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 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

N

STH 50

390

395

400

STH 50

HARRIS RD

XXXXX

SPEED LIMIT 45

R2-1
ESTR

3

W1-2L(2S)

3A 45 MPH

W13-1(2S)

45 MPH

REMOVE

SHEET 2 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 49	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 02

PLOT DATE : 1/18/2022 6:46 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

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

N

W1-6 ESTR

16 W4-2R(2S)

W1-6 ESTR

17 SPEED LIMIT 45 R2-1(2S)

45 MPH REMOVE

18 W1-2R(2S)

18A 45 MPH W13-1(2S)

400 STH 50

405

410

415

STH 50

4 5 W1-8(2S)

6 7 8 9 10 11 12 13 W1-8(2S) REMOVE

14 15 W1-8(2S)

SHEET 3 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 50	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 03

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

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

N

REMOVE
19
W6-3(2S)

22
SPEED LIMIT 45
R2-1(3)

REMOVE
23
SPEED LIMIT 45
R2-1(3)

STH 50

420

425

24
W1-6(3)

R4-7
ESTR
20
W5-54(2S)
ADD

21
W1-6(3)

Geneva St
D1-1
ESTR

SHEET 4 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 51	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 04

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 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

N

W4-2L
ESTR

REMOVE
45 D9-2(3)
45A MB6-1(3)

REMOVE
44
R4-7(3)

W3-5
ESTR

25 BEGIN LEFT TURN LANE
R3-20L(3)

LEFT LANE ENDS 49 50
W9-1L(3)

STH 50

STH 50

445

XXX

48 BEGIN LEFT TURN LANE
R3-20L(3)

46
W4-2L(3)
REMOVE

GENEVA ST

XXXX

47
R4-7(3)
REMOVE

SPEED LIMIT 55
R2-1
ESTR

NOTE:
MEDIAN WORK WEST OF
GENEVA ST FOR STAGING.

SHEET 5 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 52	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 05

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

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

N

SANCTUARY GLEN DR

INTERLAKEN DR

KNOLLWOOD DRIVE

STH 50

STH 50

450

455

460

XXX

XXX

XX

XXXXX

XXXXX

27 BEGIN LEFT TURN LANE R3-20L(3)

26 BEGIN LEFT TURN LANE R3-20L(3)

SHEET 6 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 53	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 06

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

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

N

28 BEGIN LEFT TURN LANE
R3-20L(3)

31 BEGIN LEFT TURN LANE
R3-20L(3)

29 BEGIN LEFT TURN LANE
R3-20L(3)

30 DO NOT ENTER
R5-1(3)

XXXXX

XXXX

XXXX

XXXX

STH 50

STH 50

CISCO RD

REED CHIMNEY RD

WINDWOOD LN

465

470

475

SHEET 7 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 54	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 07

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

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

N

S COMO RD

ELGIN CLUB RD

STH 50

475

480

485

490

XXXX

33 BEGIN LEFT TURN LANE
R3-20L(3)

32 BEGIN LEFT TURN LANE
R3-20L(3)

2

SHEET 8 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 55	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 08

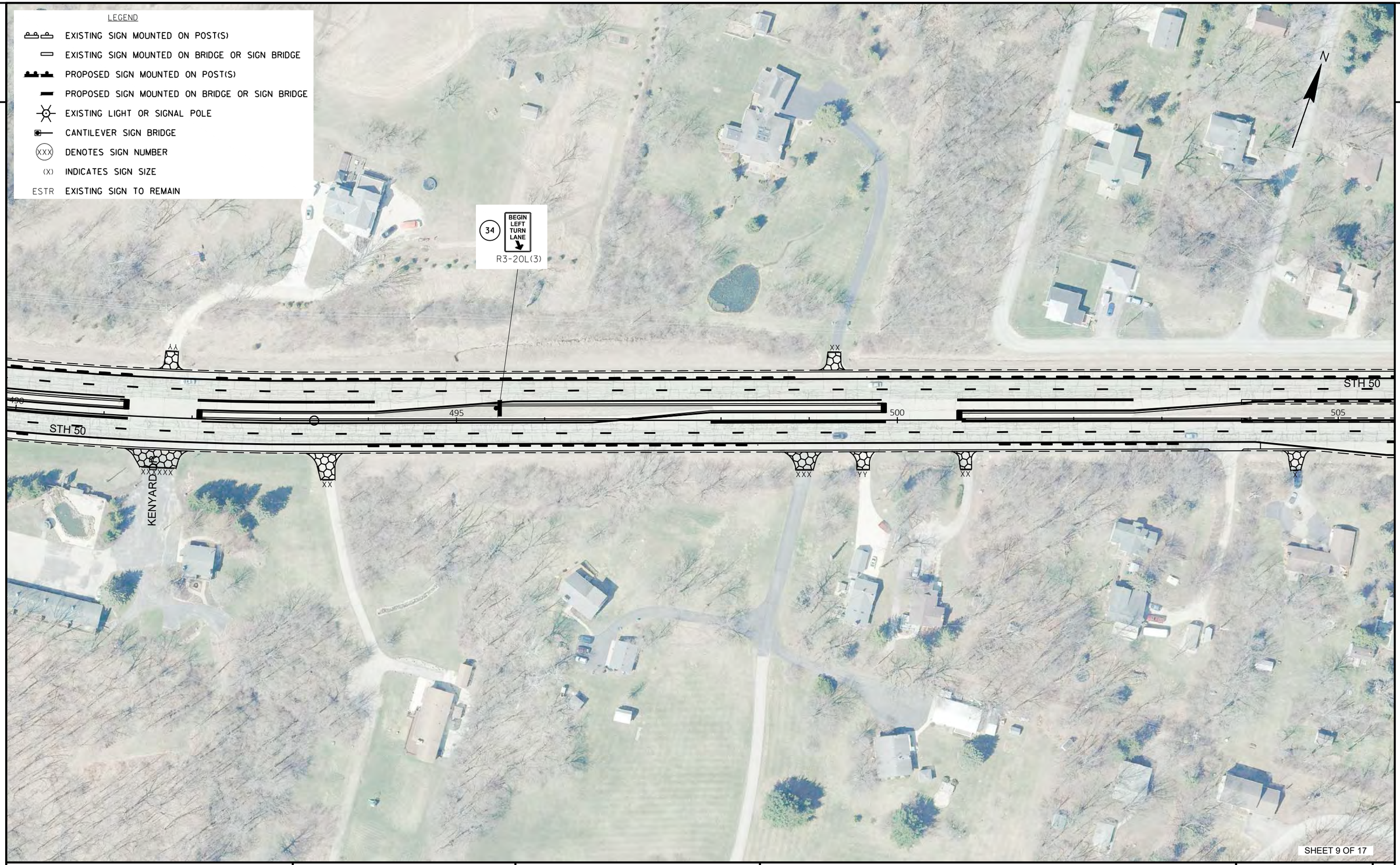
PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

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



2

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 56	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 09

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

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

N

SUNSET PARK DR

SUNSET BLVD

36 BEGIN LEFT TURN LANE
R3-20L(3)

STH 50

505 510 515 520

STH 50

XX

XXXXX

BUBLITZ RD

XXXX

CHAPIN RD

35 BEGIN LEFT TURN LANE
R3-20L(3)

2

SHEET 10 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 57	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 10

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

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

N

SPEED LIMIT 55 — R2-1 ESTR

END SCHOOL ZONE — S5-2 ESTR

XX

STH 50

520 525 530 535

STH 50

XX XX

SCHOOL SPEED LIMIT 45 WHEN CHILDREN ARE PRESENT

S4-51 ESTR

37 BEGIN LEFT TURN LANE

R3-20L(3)

SHEET 11 OF 17

2

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 58	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 11

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

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

N

SCHOFIELD RD

EL DORADO DR

SNAKE RD

STH 50

STH 50

535

540

545

550

39 BEGIN LEFT TURN LANE
R3-20L(3)

SCHOOL SPEED LIMIT 45 WHEN CHILDREN ARE PRESENT
S4-51
ESTR

38 BEGIN LEFT TURN LANE
R3-20L(3)

SPEED LIMIT 55
R2-1
ESTR

END SCHOOL ZONE
S5-2
ESTR

XXXX

XX

XXX

XXX

XX

SHEET 12 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 59	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 12

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 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

N

WOODLANE RD

EL DORADO DR

XXX

X

STH 50

550

555

560

STH 50

XX

XX

WELLS RD

40

BEGIN LEFT TURN LANE

R3-20L(3)

SHEET 13 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 60	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 13

PLOT DATE : 1/18/2022 6:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

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

N

41 BEGIN LEFT TURN LANE

R3-20L(3)

XX

XX

565

570

575

STH 50

STH 50

WELLS RD

XX

KENYON DR

SHEET 14 OF 17

2

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 61	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 14

PLOT DATE : 1/18/2022 6:48 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

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

N

SPEED LIMIT 55
R2-1
ESTR

XXX

XXXXXX

XX

580

585

STH 50

XXX

STH 50

SPEED LIMIT 45
W3-5
ESTR

SPEED LIMIT 45
R2-1
ESTR

SHEET 15 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 62	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 15

PLOT DATE : 1/18/2022 6:48 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 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



2

SHEET 16 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 63	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 16

PLOT DATE : 1/18/2022 6:48 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

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

N

SPEED LIMIT 45
R2-1
ESTR

SPEED LIMIT 45
R2-1
ESTR

XX

XXX

FOREST ST

PEARSON DR

610

615

STH 50

STH 50

XXXX

SNAKE RD

Lake Geneva
POPULATION 7651
ESTR

43 50
M1-6
REMOVE

42
W6-2
REMOVE

EAST 50
J4-1
ESTR

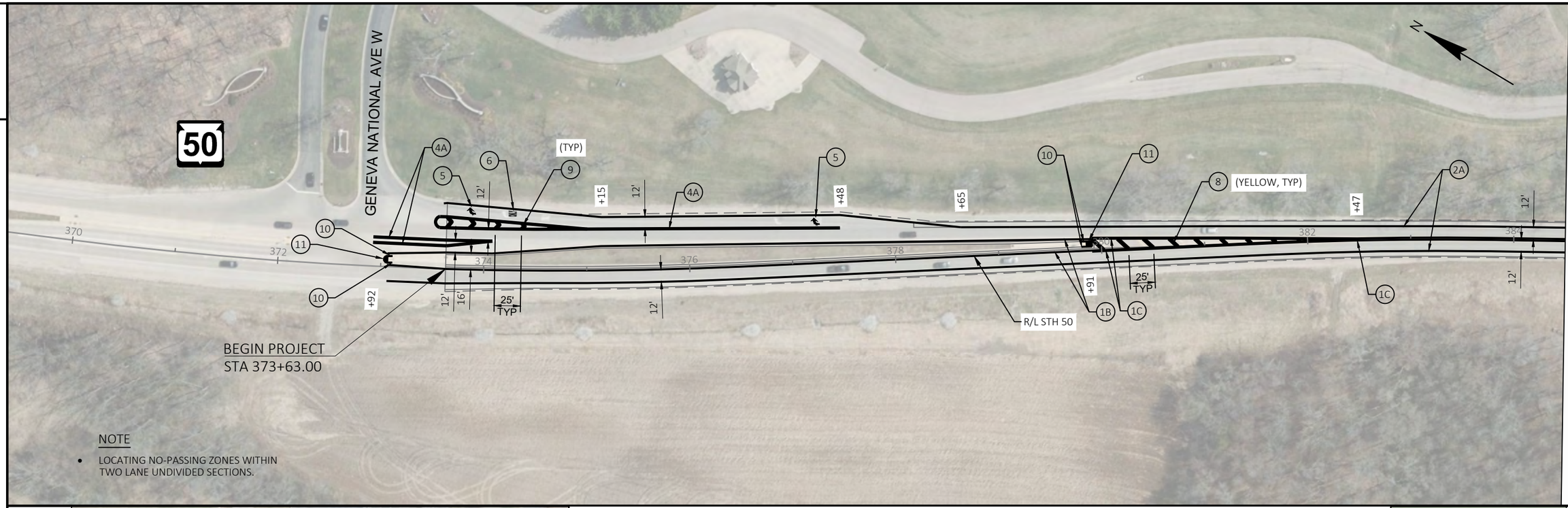
SHEET 17 OF 17

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 64	E

FILE NAME : N:\PDS\C3D\CAD\31701200\SIGN\023201_PS_20.DWG
LAYOUT NAME - 17

PLOT DATE : 1/18/2022 6:48 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

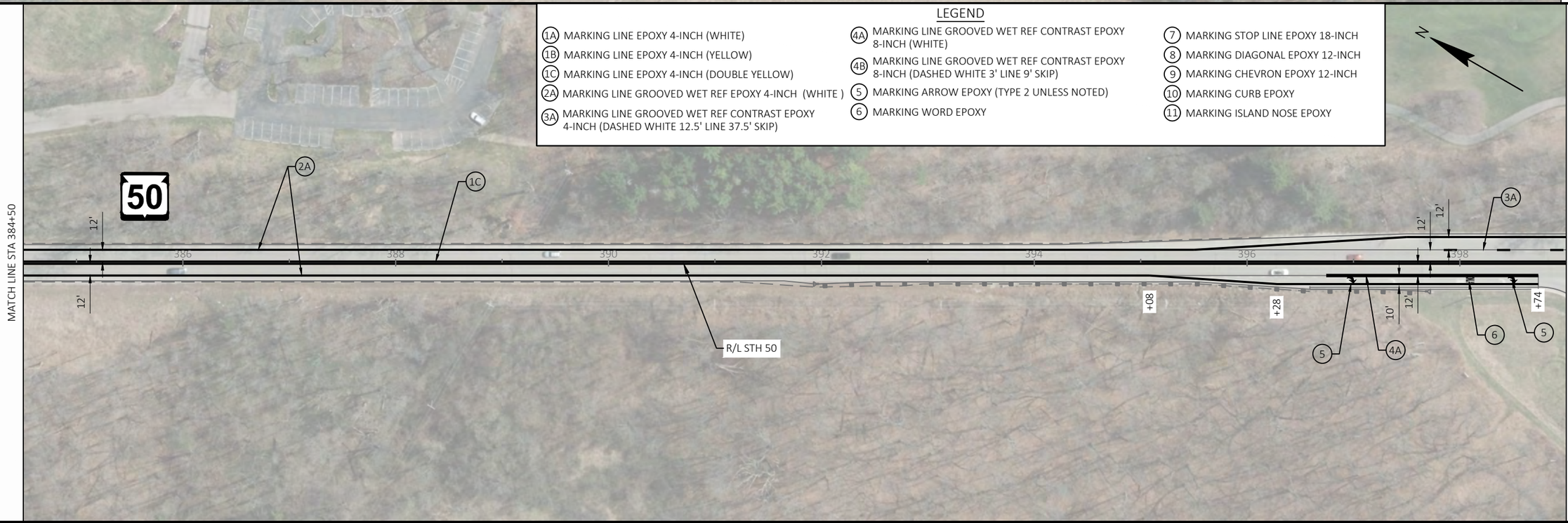


NOTE

- LOCATING NO-PASSING ZONES WITHIN TWO LANE UNDIVIDED SECTIONS.

LEGEND

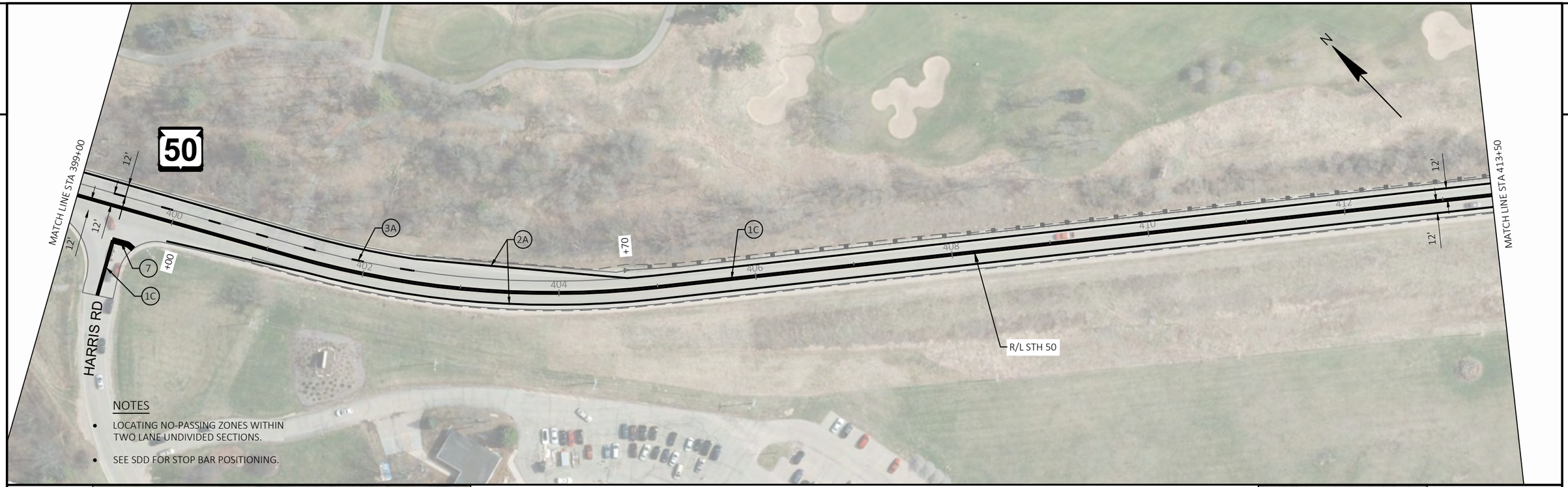
- (1A) MARKING LINE EPOXY 4-INCH (WHITE)
- (1B) MARKING LINE EPOXY 4-INCH (YELLOW)
- (1C) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (2A) MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
- (3A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)
- (4A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
- (4B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED WHITE 3' LINE 9' SKIP)
- (5) MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- (6) MARKING WORD EPOXY
- (7) MARKING STOP LINE EPOXY 18-INCH
- (8) MARKING DIAGONAL EPOXY 12-INCH
- (9) MARKING CHEVRON EPOXY 12-INCH
- (10) MARKING CURB EPOXY
- (11) MARKING ISLAND NOSE EPOXY



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 65	E

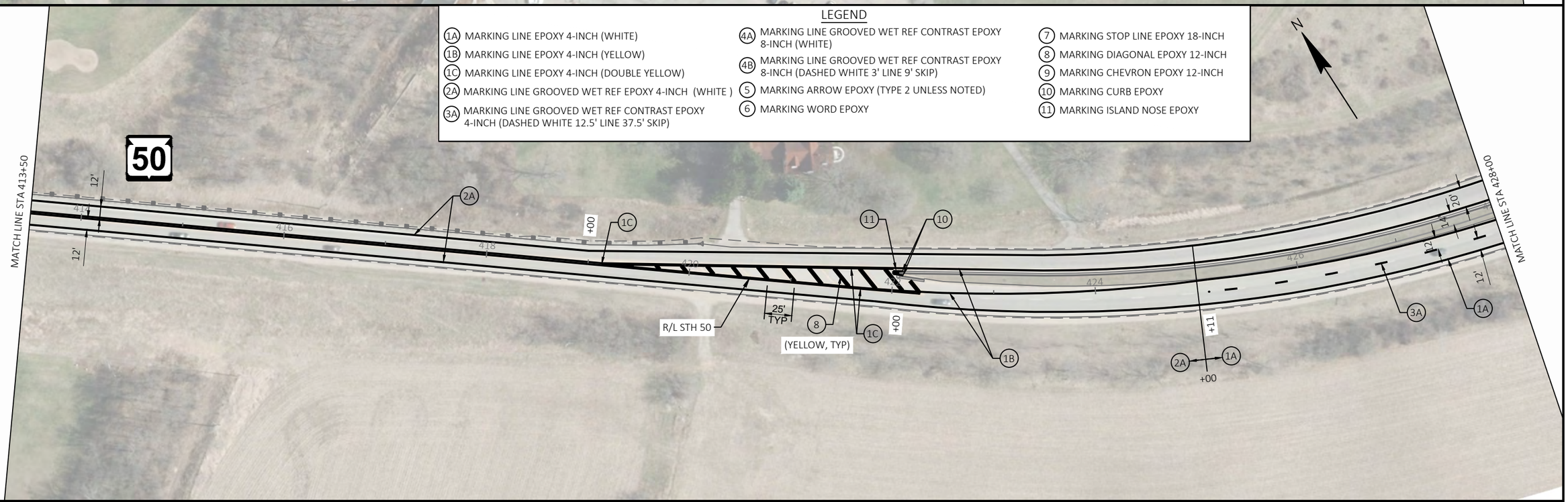
FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 01-pm
PLOT DATE : 1/31/2022 8:13 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



LEGEND

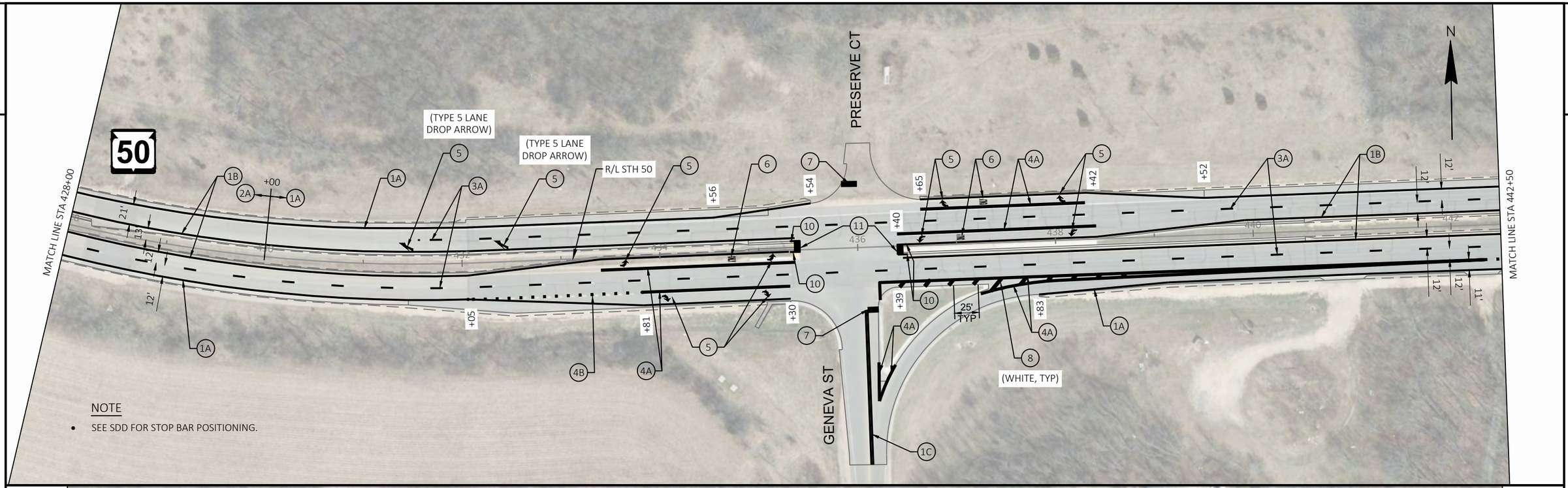
- (1A) MARKING LINE EPOXY 4-INCH (WHITE)
- (1B) MARKING LINE EPOXY 4-INCH (YELLOW)
- (1C) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (2A) MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
- (3A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)
- (4A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
- (4B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED WHITE 3' LINE 9' SKIP)
- (5) MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- (6) MARKING WORD EPOXY
- (7) MARKING STOP LINE EPOXY 18-INCH
- (8) MARKING DIAGONAL EPOXY 12-INCH
- (9) MARKING CHEVRON EPOXY 12-INCH
- (10) MARKING CURB EPOXY
- (11) MARKING ISLAND NOSE EPOXY



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 66	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 02-pm
PLOT DATE : 1/31/2022 8:14 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



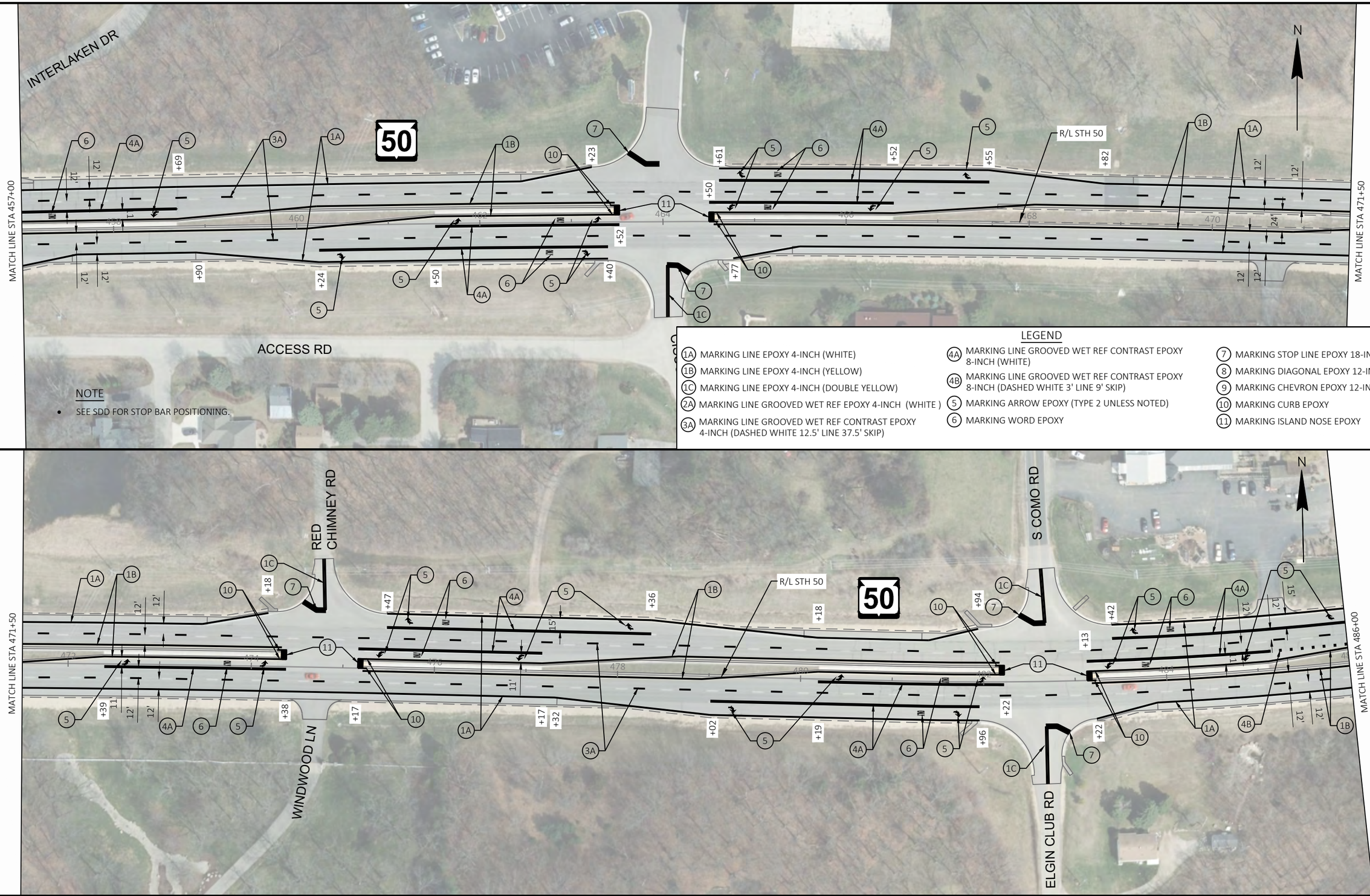
LEGEND

- (1A) MARKING LINE EPOXY 4-INCH (WHITE)
- (1B) MARKING LINE EPOXY 4-INCH (YELLOW)
- (1C) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (2A) MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
- (3A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)
- (4A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
- (4B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED WHITE 3' LINE 9' SKIP)
- (5) MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- (6) MARKING WORD EPOXY
- (7) MARKING STOP LINE EPOXY 18-INCH
- (8) MARKING DIAGONAL EPOXY 12-INCH
- (9) MARKING CHEVRON EPOXY 12-INCH
- (10) MARKING CURB EPOXY
- (11) MARKING ISLAND NOSE EPOXY

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 67	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 03-pm
PLOT DATE : 1/31/2022 8:14 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



NOTE

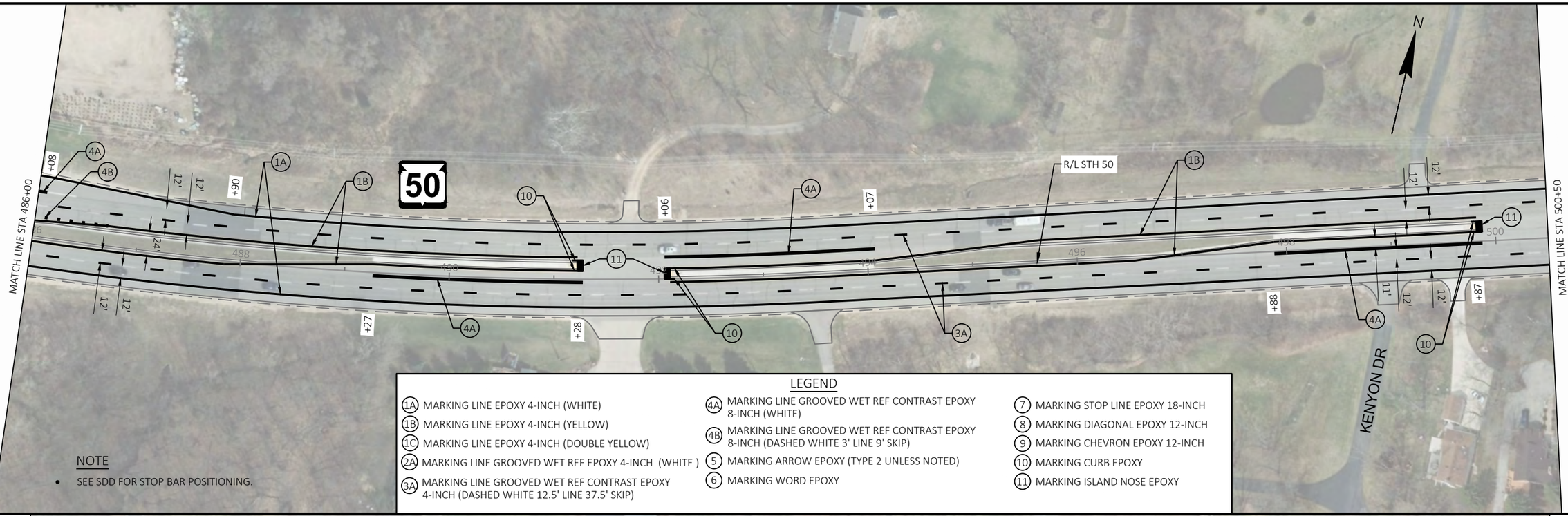
- SEE SDD FOR STOP BAR POSITIONING.

LEGEND

- (1A) MARKING LINE EPOXY 4-INCH (WHITE)
- (1B) MARKING LINE EPOXY 4-INCH (YELLOW)
- (1C) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (2A) MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
- (3A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)
- (4A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
- (4B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED WHITE 3' LINE 9' SKIP)
- (5) MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- (6) MARKING WORD EPOXY
- (7) MARKING STOP LINE EPOXY 18-INCH
- (8) MARKING DIAGONAL EPOXY 12-INCH
- (9) MARKING CHEVRON EPOXY 12-INCH
- (10) MARKING CURB EPOXY
- (11) MARKING ISLAND NOSE EPOXY

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 68	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 04-pm
PLOT DATE : 1/31/2022 8:14 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

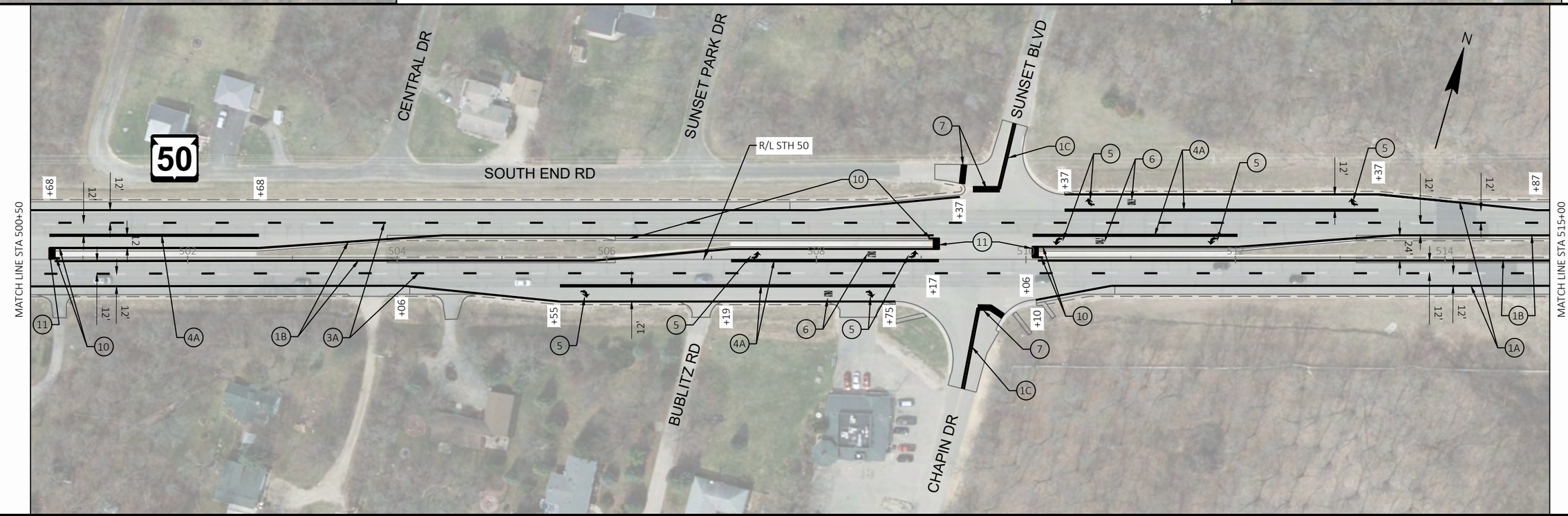


NOTE

- SEE SDD FOR STOP BAR POSITIONING.

LEGEND

- 1A MARKING LINE EPOXY 4-INCH (WHITE)
- 1B MARKING LINE EPOXY 4-INCH (YELLOW)
- 1C MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- 2A MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
- 3A MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)
- 4A MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
- 4B MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED WHITE 3' LINE 9' SKIP)
- 5 MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- 6 MARKING WORD EPOXY
- 7 MARKING STOP LINE EPOXY 18-INCH
- 8 MARKING DIAGONAL EPOXY 12-INCH
- 9 MARKING CHEVRON EPOXY 12-INCH
- 10 MARKING CURB EPOXY
- 11 MARKING ISLAND NOSE EPOXY



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 69	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 05-pm
PLOT DATE : 1/31/2022 8:14 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

MATCH LINE STA 515+00

MATCH LINE STA 529+50

50

R/L STH 50

NOTE

- SEE SDD FOR STOP BAR POSITIONING.

LEGEND

- 1A MARKING LINE EPOXY 4-INCH (WHITE)
- 1B MARKING LINE EPOXY 4-INCH (YELLOW)
- 1C MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- 2A MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
- 3A MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)
- 4A MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
- 4B MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED WHITE 3' LINE 9' SKIP)
- 5 MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- 6 MARKING WORD EPOXY
- 7 MARKING STOP LINE EPOXY 18-INCH
- 8 MARKING DIAGONAL EPOXY 12-INCH
- 9 MARKING CHEVRON EPOXY 12-INCH
- 10 MARKING CURB EPOXY
- 11 MARKING ISLAND NOSE EPOXY

SCHOFIELD RD

EL DORADO DR

SNAKE RD

MATCH LINE STA 529+50

MATCH LINE STA 544+00

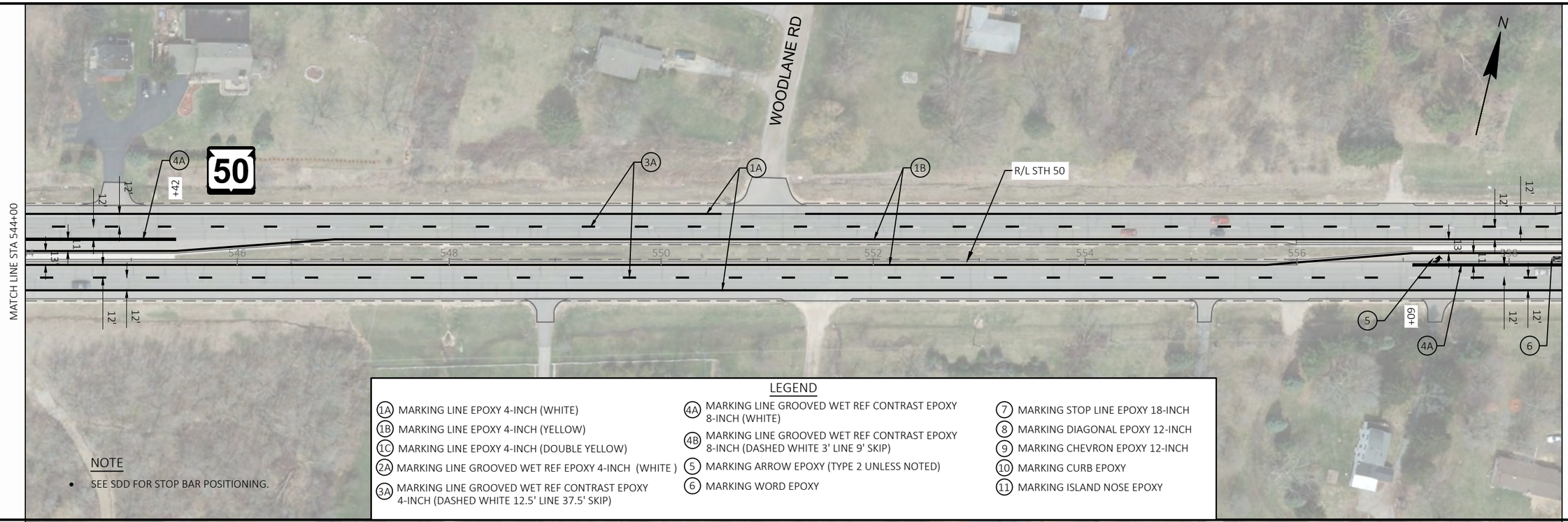
50

R/L STH 50

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 70	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 06-pm
PLOT DATE : 1/31/2022 8:14 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

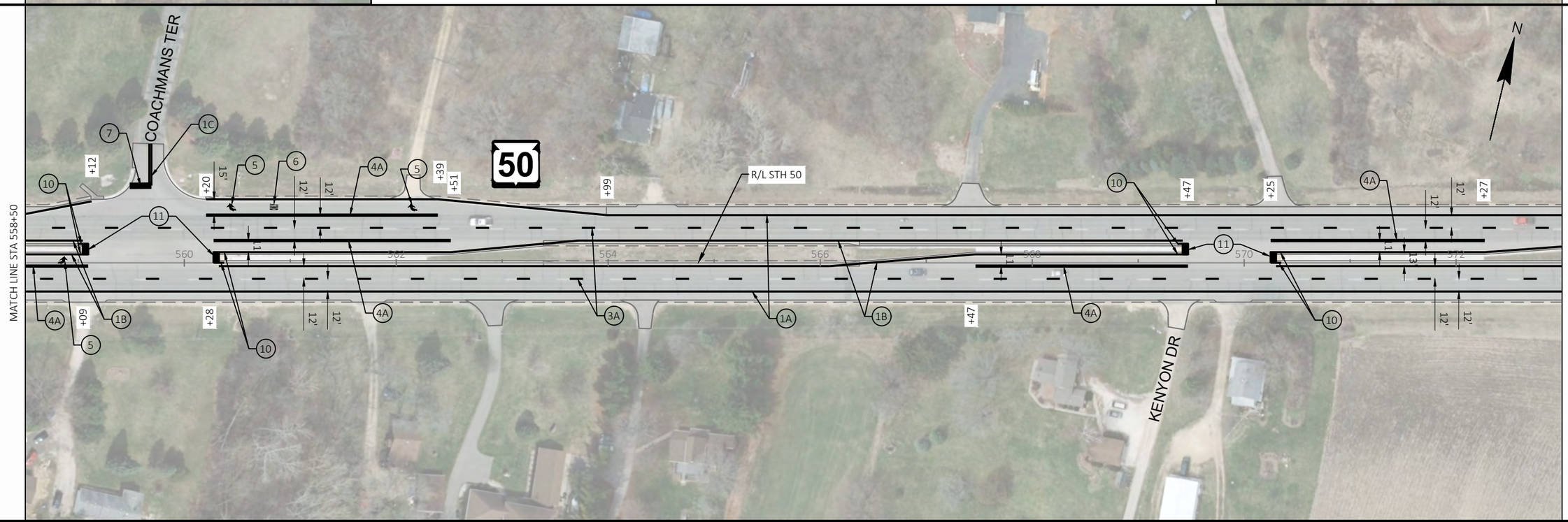


NOTE

- SEE SDD FOR STOP BAR POSITIONING.

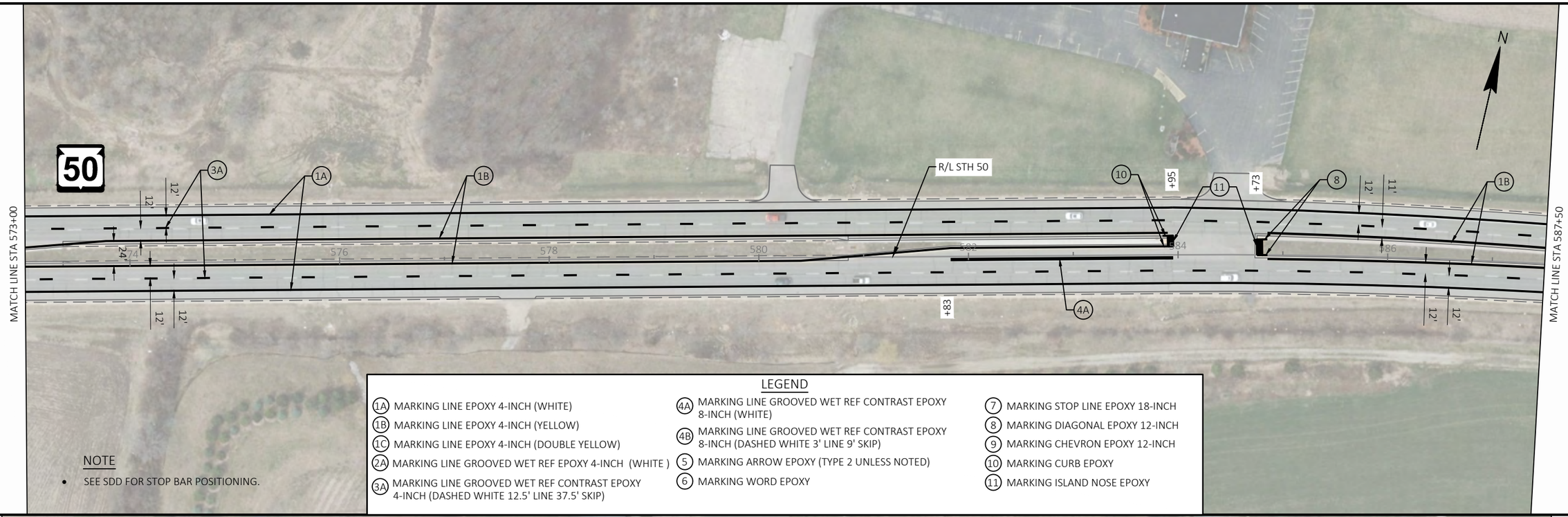
LEGEND

- 1A MARKING LINE EPOXY 4-INCH (WHITE)
- 1B MARKING LINE EPOXY 4-INCH (YELLOW)
- 1C MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- 2A MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
- 3A MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)
- 4A MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
- 4B MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED WHITE 3' LINE 9' SKIP)
- 5 MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- 6 MARKING WORD EPOXY
- 7 MARKING STOP LINE EPOXY 18-INCH
- 8 MARKING DIAGONAL EPOXY 12-INCH
- 9 MARKING CHEVRON EPOXY 12-INCH
- 10 MARKING CURB EPOXY
- 11 MARKING ISLAND NOSE EPOXY



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 71	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 07-pm
PLOT DATE : 1/31/2022 8:14 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



NOTE

- SEE SDD FOR STOP BAR POSITIONING.

LEGEND

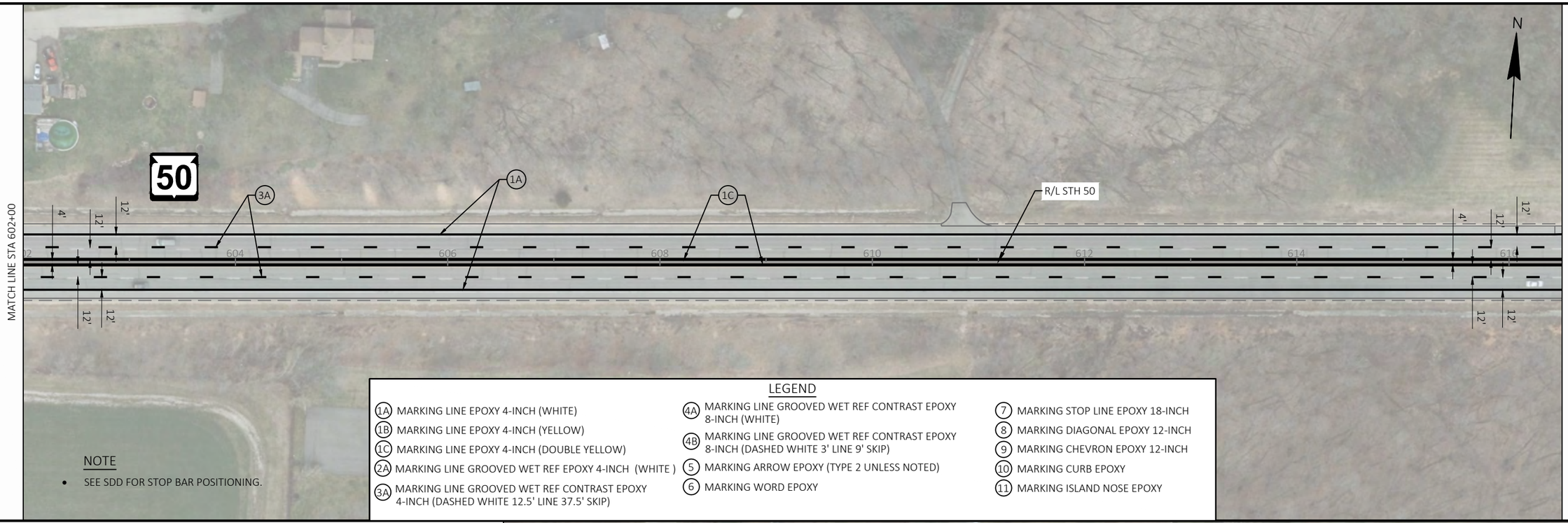
- (1A) MARKING LINE EPOXY 4-INCH (WHITE)
- (1B) MARKING LINE EPOXY 4-INCH (YELLOW)
- (1C) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (2A) MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
- (3A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)
- (4A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
- (4B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED WHITE 3' LINE 9' SKIP)
- (5) MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- (6) MARKING WORD EPOXY
- (7) MARKING STOP LINE EPOXY 18-INCH
- (8) MARKING DIAGONAL EPOXY 12-INCH
- (9) MARKING CHEVRON EPOXY 12-INCH
- (10) MARKING CURB EPOXY
- (11) MARKING ISLAND NOSE EPOXY



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 72	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 08-pm
PLOT DATE : 1/31/2022 8:14 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

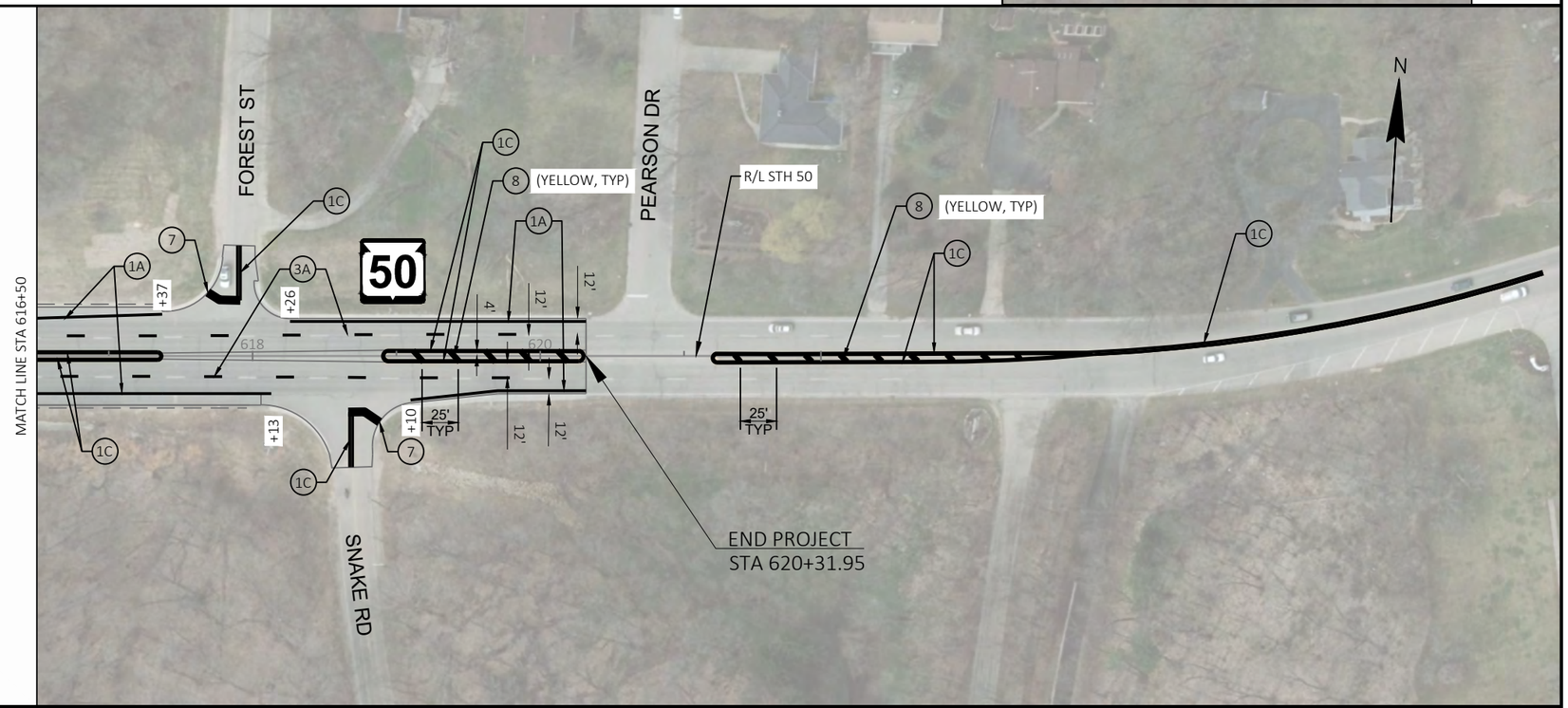


NOTE

- SEE SDD FOR STOP BAR POSITIONING.

LEGEND

- 1A MARKING LINE EPOXY 4-INCH (WHITE)
- 1B MARKING LINE EPOXY 4-INCH (YELLOW)
- 1C MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- 2A MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
- 3A MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)
- 4A MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
- 4B MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED WHITE 3' LINE 9' SKIP)
- 5 MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- 6 MARKING WORD EPOXY
- 7 MARKING STOP LINE EPOXY 18-INCH
- 8 MARKING DIAGONAL EPOXY 12-INCH
- 9 MARKING CHEVRON EPOXY 12-INCH
- 10 MARKING CURB EPOXY
- 11 MARKING ISLAND NOSE EPOXY



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 73	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 09-pm
PLOT DATE : 1/31/2022 8:14 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

GENERAL NOTES FOR TRAFFIC CONTROL

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.

ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED AND BE EQUIPPED WITH TWO TYPE "A" LOW INTENSITY FLASHING LIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS FOR A MINIMUM OF 750' IN FRONT OF THE DRUMS.

ALL SHORT TERM LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE ROADWAY IS RESTORED TO A SAFE OPERATING CONDITION.

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN AND TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" LIGHT
- TRAFFIC CONTROL CONES 42-INCH
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- (A) TYPE A WARNING LIGHT (FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- DIRECTION OF TRAFFIC

NON-STANDARD WORK ZONE TRAFFIC CONTROL SYMBOLS

- (W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- (WP) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (Y2) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (YP) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (W2) TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- (SP) TEMPORARY MARKING STOP LINE PAINT 18-INCH
- (S) TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

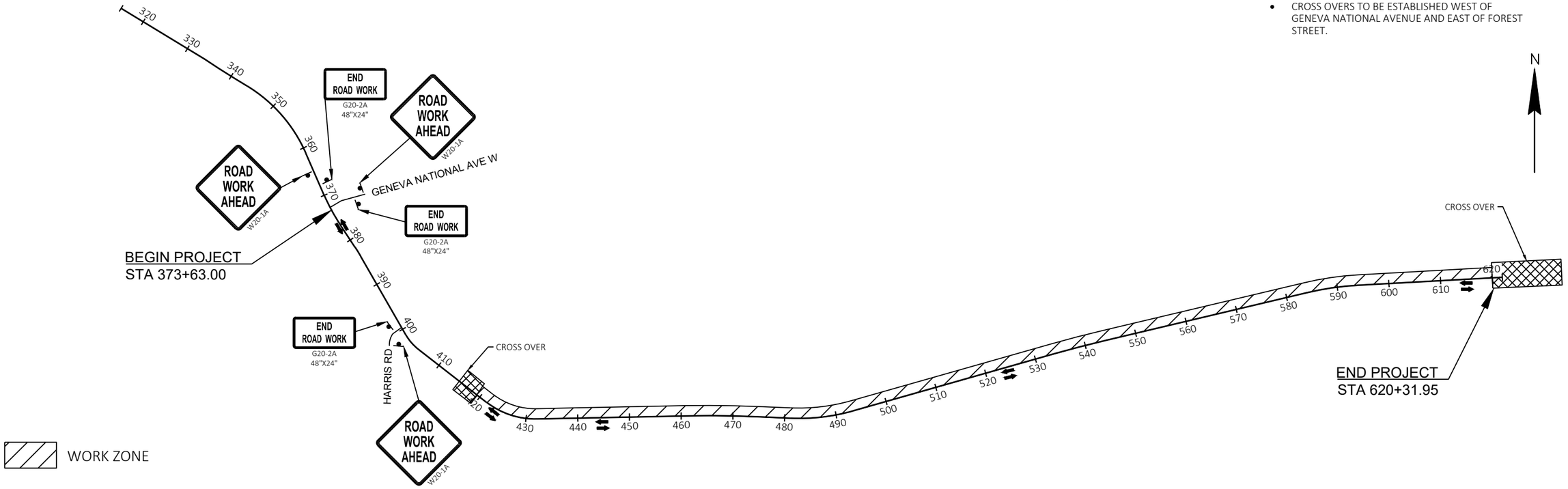
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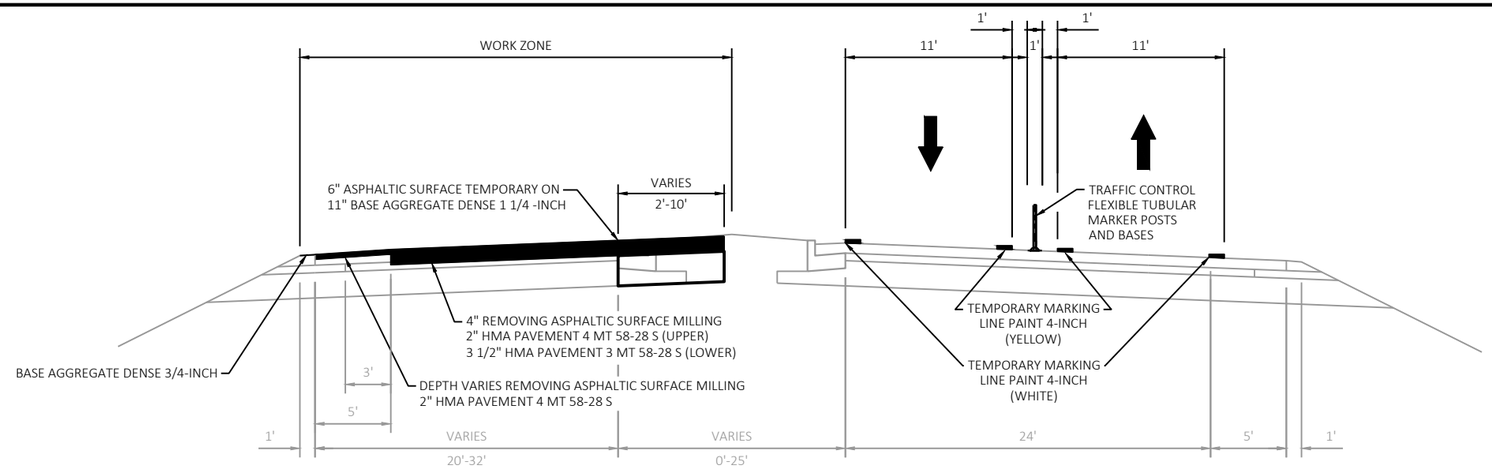
STAGE 1 CONSTRUCTION

- PLACE ASPHALTIC SURFACE TEMPORARY ON INSIDE SHOULDER FROM STA 420+10 TO STA 428+20.
- MILL AND OVERLAY WB SECTION OF STH 50 WITHIN THE FOUR LANE, DIVIDED SECTION.

STAGE 1 TRAFFIC

- ORIGINAL TRAFFIC PATTERN AND FLOW TO REMAIN IN THE TWO LANE, UNDIVIDED SECTION.
- TRAFFIC REDUCED TO TWO LANE BI-DIRECTIONAL TRAFFIC ON THE EB SIDE.
- CROSS OVERS TO BE ESTABLISHED WEST OF GENEVA NATIONAL AVENUE AND EAST OF FOREST STREET.



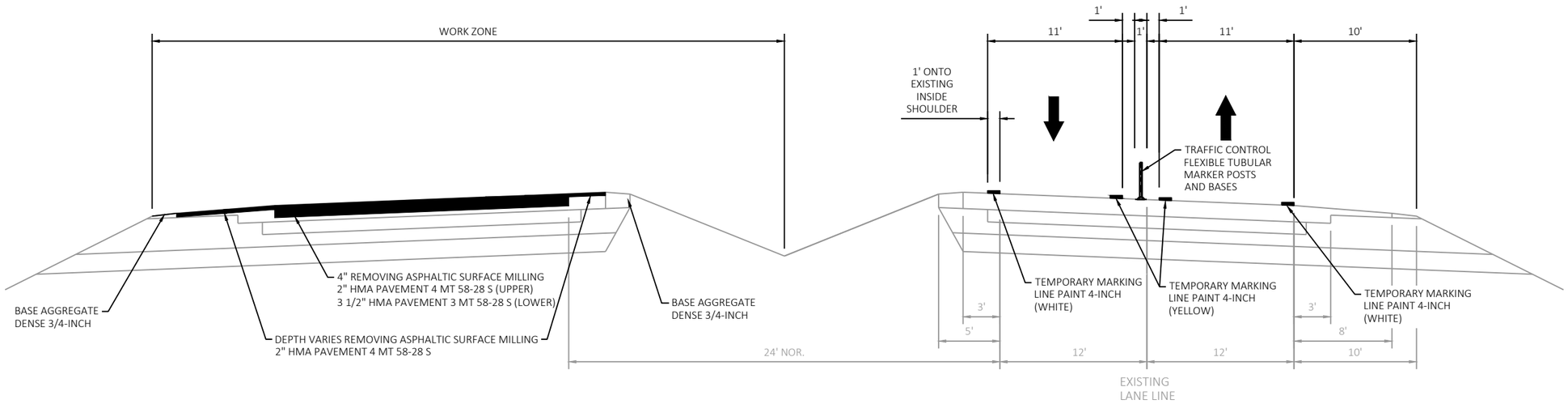


STAGE 1 TYPICAL SECTION

STA 422+00 TO STA 431+80

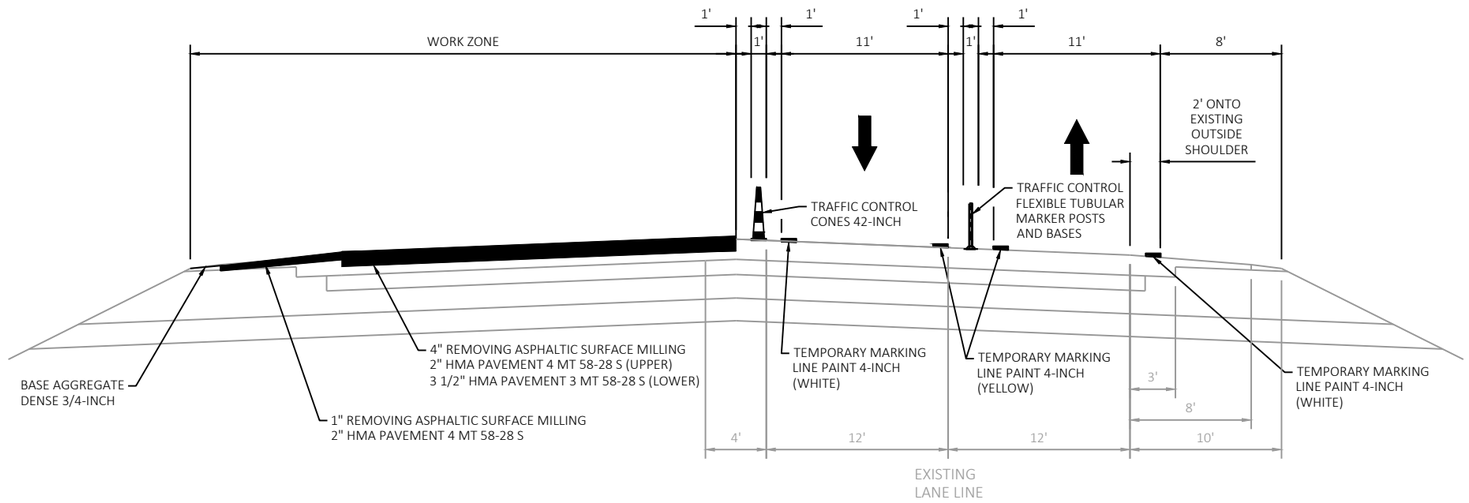
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1 OVERVIEW AND TYPICAL SECTIONS	SHEET 75	E

2



STAGE 1 TYPICAL SECTION

STA 431+80 TO STA 593+80



STAGE 1 TYPICAL SECTION

STA 593+80 TO STA 620+32

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1 OVERVIEW AND TYPICAL SECTIONS	SHEET 76	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026100-TC1.DWG
LAYOUT NAME - 02
PLOT DATE : 1/25/2022 4:37 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

2

N

R/L STH 50

EXISTING R/W

50'
TYP

402 404 406 STH 50 408 410 412 414

50

500' 500' 500'

EXISTING R/W

ROAD WORK AHEAD
W20-1A

MAX. XX WIDTH
W12-52
48"X48"

ROAD WORK 1000 FT
W20-1C

W01-4R

40 MPH
WO13-1
36"X36"

MATCH LINE STA 416+00

PLACE SIGNS PRIOR TO INTERSECTION OF STH 50 AND STH 67 IN THE SW QUADRANT FOR EB TRAFFIC.

MAX. XX WIDTH
W12-52
48"X48"

XX MILES AHEAD
WO57-52
36"X24"

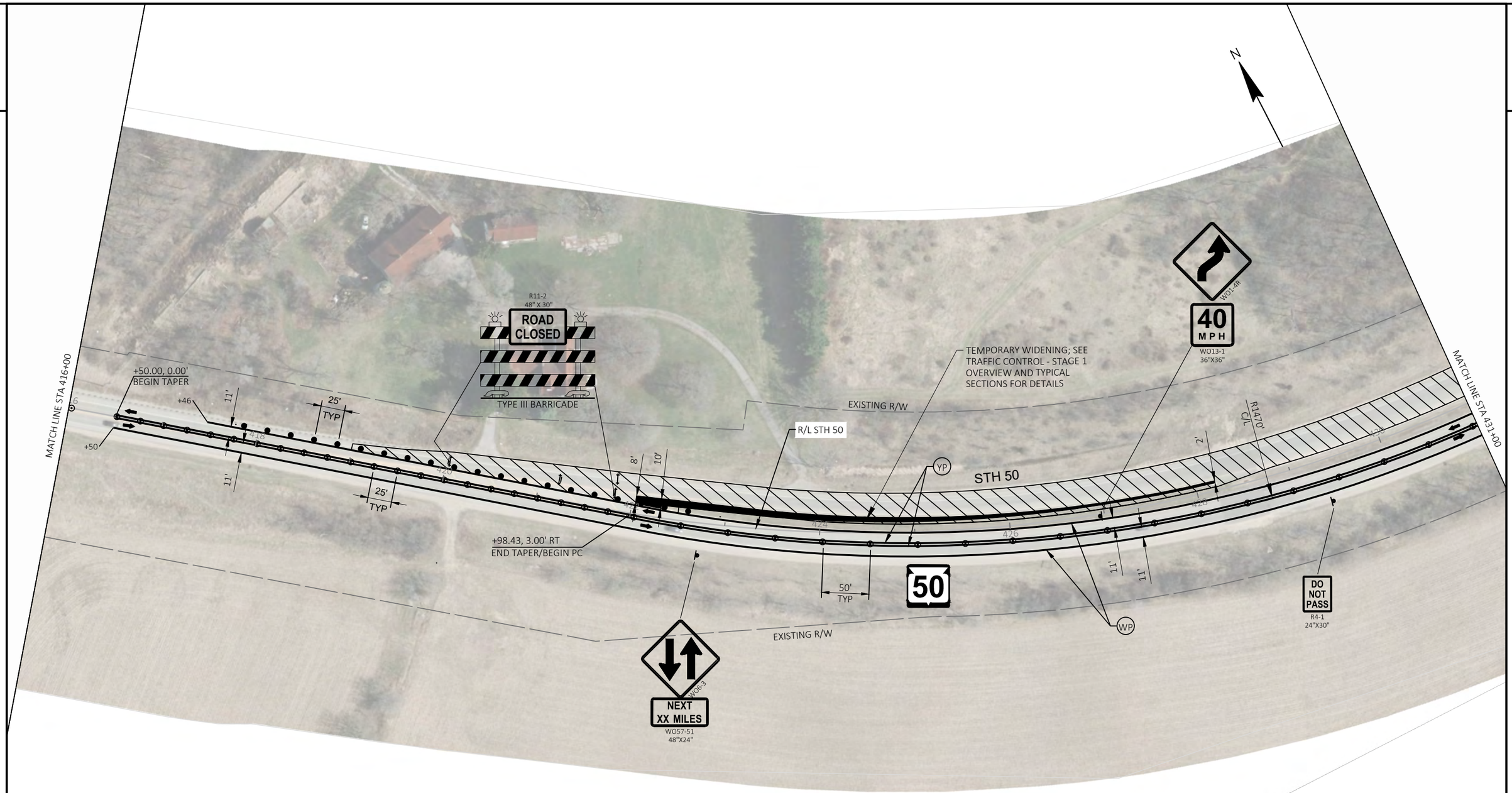
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 77	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026101-S1.DWG
LAYOUT NAME - 026100-s1

PLOT DATE : 1/31/2022 5:01 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 78	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026101-S1.DWG
LAYOUT NAME - 026101-s1

PLOT DATE : 1/31/2022 5:02 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MATCH LINE STA 431+00

MATCH LINE STA 446+25

NEXT XX MILES
WO57-51
48"X24"

ROAD WORK AHEAD
W20-1A

PRESERVE CT

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

EXISTING R/W

STOP

STH 50

R/L STH 50

YP

SP

WP

50'
TYP

50

11'

BEGIN RIGHT TURN LANE
R3-20RR
24"X36"

EXISTING R/W

STOP
R1-1
30"X30"

STOP

END ROAD WORK
G20-2A
48"X24"

GENEVA ST

ROAD WORK AHEAD
W20-1A

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 79	E

2

2

MATCH LINE STA 446+25

MATCH LINE STA 461+50

N

ROAD WORK AHEAD W20-1A

NEXT XX MILES W057-51 48"X24" W06-3

STOP

SANCTUARY GLEN CT

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

R/L STH 50

EXISTING R/W

YP

STH 50

DO NOT PASS R4-1 24"X30"

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

ROAD WORK AHEAD W20-1A

INTERLAKEN DR

448 450 452 454 456 458 460

SP WP

11' 11' 11' 11' 11' 11'

50' TYP

50

BEGIN RIGHT TURN LANE R3-20RR 24"X36"

WO1-6 48" X 24"

NEXT XX MILES W057-51 48"X24" W06-3

STOP R1-1 30"X30"

TYPE III BARRICADE

EXISTING R/W

WO1-6 48" X 24"

TYPE III BARRICADE

STOP R1-1 30"X30"

END ROAD WORK G20-2A 48"X24"

KNOLLWOOD DR

STOP

ACCESS RD

EXISTING R/W

ROAD WORK AHEAD W20-1A

NEXT XX MILES W057-51 48"X24" W06-3

BEGIN RIGHT TURN LANE R3-20RR 24"X36"

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 80	E

2

2

N

MATCH LINE STA 461+50

MATCH LINE STA 476+75

ROAD WORK AHEAD W20-1A

END ROAD WORK G20-2A 48"X24"

NEXT XX MILES WO57-51 48"X24" WO6-3

STOP

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

WO1-6 48" X 24" TYPE III BARRICADE

EXISTING R/W

STH 50

RED CHIMNEY RD

462 464 466 468 470 472 474 476

SP YP WP

11' 11'

50

50' TYP

R/L STH 50

ACCESS RD

CISCO RD

WINDWOOD LN

R1-1 30"X30"

DO NOT PASS R4-1 24"X30"

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

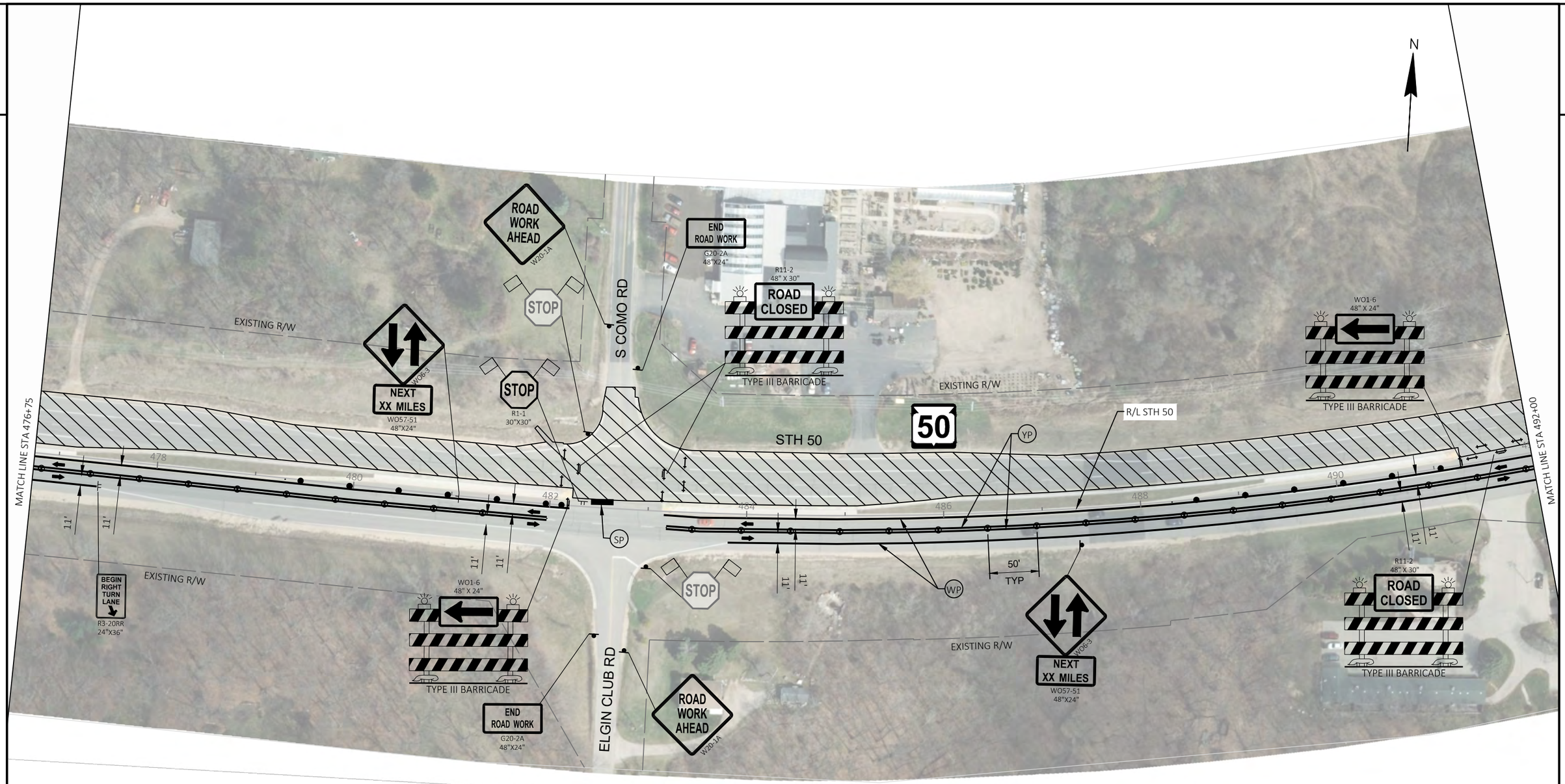
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 81	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026101-S1.DWG
LAYOUT NAME - 026104-s2

PLOT DATE : 1/31/2022 5:02 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 82	E

2

N

MATCH LINE STA 492+00

MATCH LINE STA 507+25

DO NOT PASS
R4-1
24"X30"

EXISTING R/W

WO1-6
48" X 24"

TYPE III BARRICADE

EXISTING R/W

CENTRAL DR

EXISTING R/W

SOUTH END RD

WO6-3

NEXT
XX MILES

WO57-51
48"X24"

SUNSET PARK DR

STH 50

R/L STH 50

YP

494

496

498

502

504

506

11'

11'

11'

11'

50

50'
TYP

WP

EXISTING R/W

DO NOT PASS
R4-1
24"X30"

KENYARD DR

KENYON DR

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

EXISTING R/W

RIGHT TURN ONLY
R3-5R
24"X30"

BEGIN RIGHT TURN LANE
R3-20RR
24"X36"

STOP

ROAD WORK AHEAD
W20-1A

BUBLITZ RD

NOTE

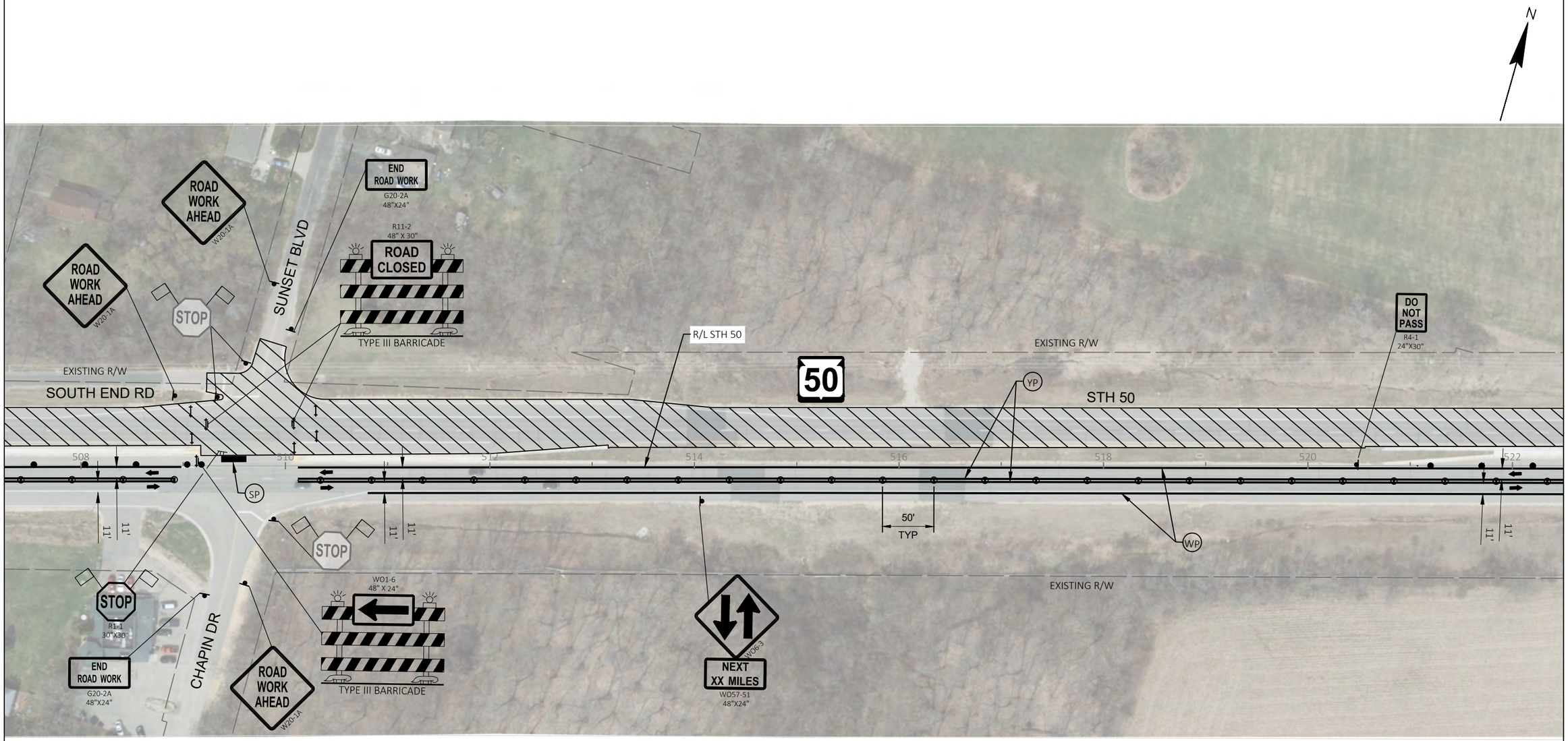
- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 83	E

2

MATCH LINE STA 507+25

MATCH LINE STA 522+50



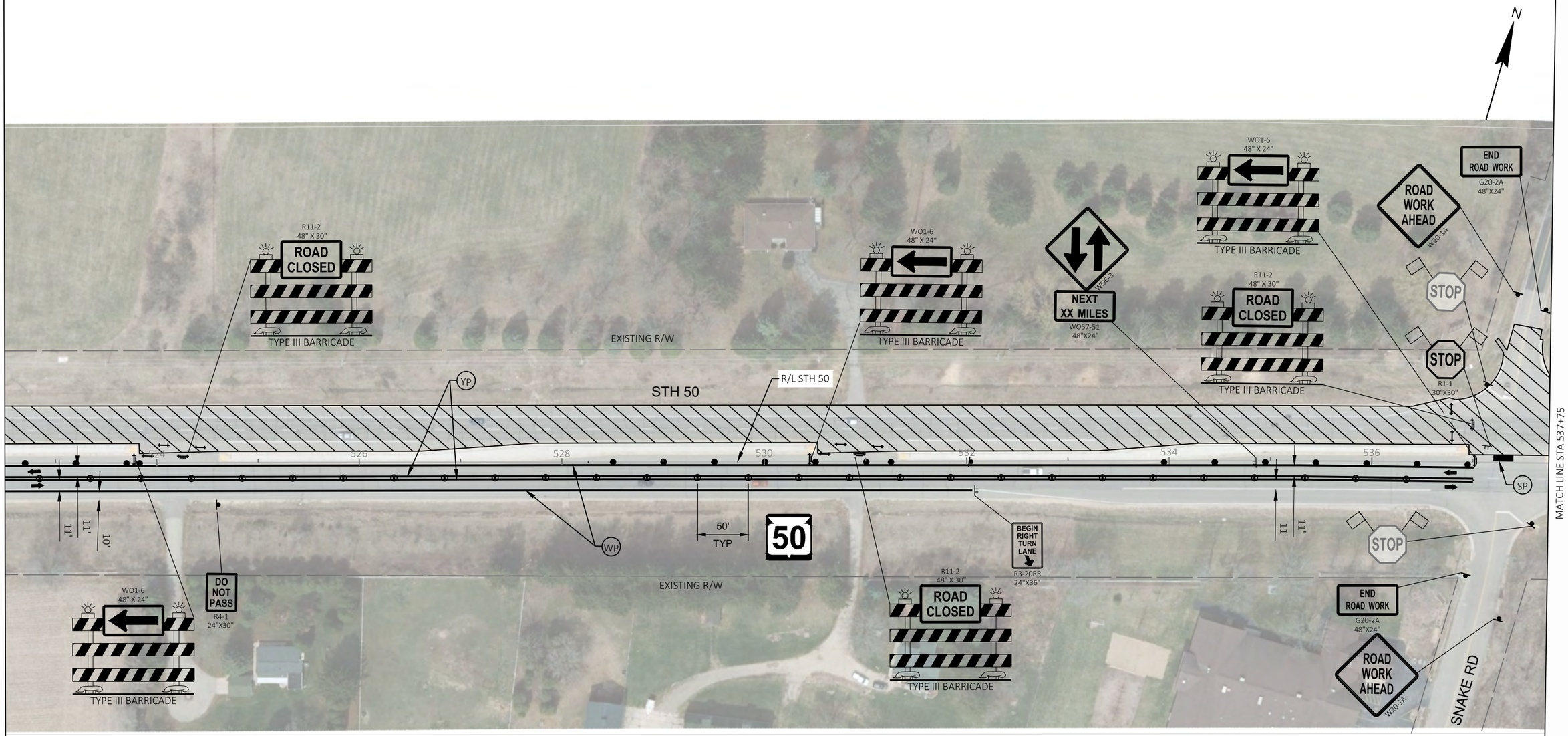
NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 84	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026101-S1.DWG
LAYOUT NAME - 026107-s1
PLOT DATE : 1/31/2022 5:02 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 85	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026101-S1.DWG
LAYOUT NAME - 026108-s1
PLOT DATE : 1/31/2022 5:02 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

SCHOFIELD RD

EL DORADO DR

WOODLANE RD

MATCH LINE STA 537+75

MATCH LINE STA 553+00

ROAD WORK AHEAD
W20-1A

STOP

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

EXISTING R/W

R/L STH 50

YP

STH 50

DO NOT PASS
R4-1
24"X30"

536 540 542 544 546 548 550 552

11' 11'

50' TYP

50

WP

WO1-6
48" X 24"
TYPE III BARRICADE

WO6-3

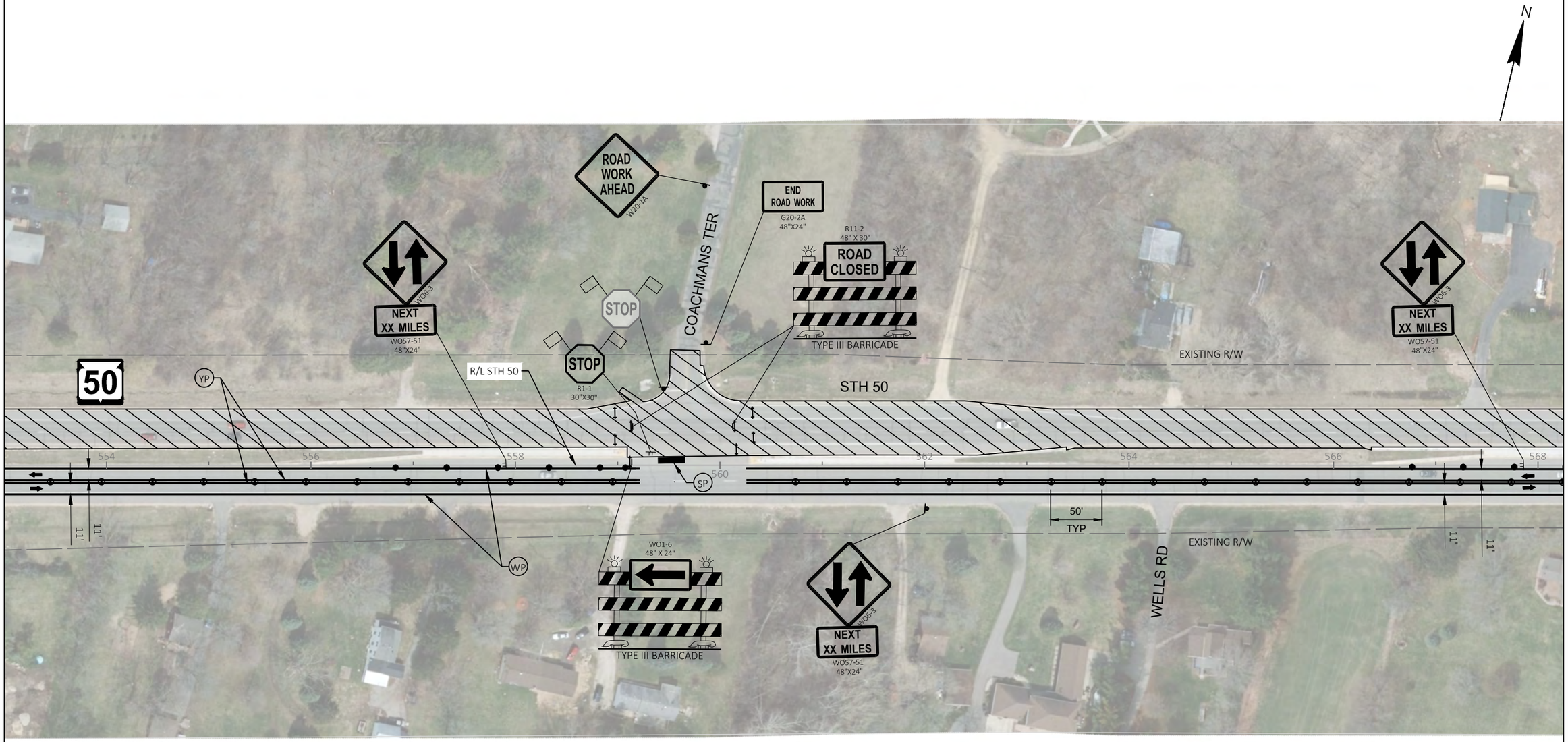
NEXT XX MILES
WO57-51
48"X24"

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 86	E

2



NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 87	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026101-S1.DWG
LAYOUT NAME - 026110-s
PLOT DATE : 1/31/2022 5:02 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA 568+25

MATCH LINE STA 583+50

WO1-6
48" X 24"

TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

EXISTING R/W

R/L STH 50

STH 50

YP

570 572 574 576 578 580 582

11' 11'

11' 11'

50'
TYP

EXISTING R/W

KENYON DR

50

DO NOT PASS
R4-1
24"X30"

WP

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

TYPE III BARRICADE

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 88	E

2

N

MATCH LINE STA 583+50

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

DO NOT PASS
R4-1
24"X30"

50
R/L STH 50
STH 50

EXISTING R/W

50'
TYP

584 586 588 592 596 598

YP

WP

11'

11'

50'
TYP

EXISTING R/W

11'

11'

MATCH LINE STA 598+75

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

WO1-6
48" X 24"
TYPE III BARRICADE

W06-3
NEXT XX MILES
WO57-51
48"X24"

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 89	E

2

N

MATCH LINE STA 598+75

MATCH LINE STA 614+00

ROAD WORK AHEAD
W20-1A

NEXT XX MILES
W057-51
48"X24"

W06-3

STOP

EXISTING R/W

DUMMER DR

END ROAD WORK
G20-2A
48"X24"

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

DO NOT PASS
R4-1
24"X30"

EXISTING R/W

50'
TYP

YP

STH 50

600 602 604 606 608 610 612

11' 11'

SP

WP

50

50'
TYP

R/L STH 50

11' 11'

EXISTING R/W

DO NOT PASS
R4-1
24"X30"

STOP
R1-1
30"X30"

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 90	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026101-S1.DWG
LAYOUT NAME - 026113-s1

PLOT DATE : 1/31/2022 5:02 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

PLACE SIGNS PRIOR TO INTERSECTION OF STH 50 AND STH 120/EDWARDS BLVD IN THE NE QUADRANT FOR WB TRAFFIC.

MAX. XX WIDTH
W12-52
48"X48"

NEXT XX MILES
WO57-51
48"X24"

N

SKY LN DR

ROAD WORK AHEAD
W20-1A

MAX. XX WIDTH
W12-52
48"X48"

ROAD WORK 1000 FT
W20-1C

WO1-4L

350'
650'
500'
500'
500'

END ROAD WORK
G20-2A
48"X24"

MATCH LINE STA 614+00

50

50'
TYP

STH 50

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE
EXISTING R/W

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"
EXISTING R/W

FOREST ST

STOP

R3-2
24"X24"

PEARSON DR

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

WO1-6
48" X 24"
TYPE III BARRICADE

R3-2
24"X24"

R3-2
24"X24"

R3-2
24"X24"

R412.1'
C/L

616
618
620

SP

11'
11'

WP
YP

STOP

+90.82, 15.50' RT
BEGIN TAPER/BEGIN PC

11'
11'

REMOVE MARKINGS WITHIN CROSSOVER

EXISTING R/W

SNAKE RD

EXISTING R/W

90' W OF
LAKE VIEW DR

150' W OF LAKE VIEW DR
END TAPER/END PT

LAKE VIEW DR

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

WO6-3

NEXT XX MILES
WO57-51
48"X24"

WO1-4L

END ROAD WORK
G20-2A
48"X24"

WO6-3

ROAD WORK AHEAD
W20-1A

END PROJECT
STA 620+31.95

NOTES

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.
- APPLY TEMPORARY REMOVABLE TAPE BEYOND PROJECT LIMITS (STA 620+31.95).

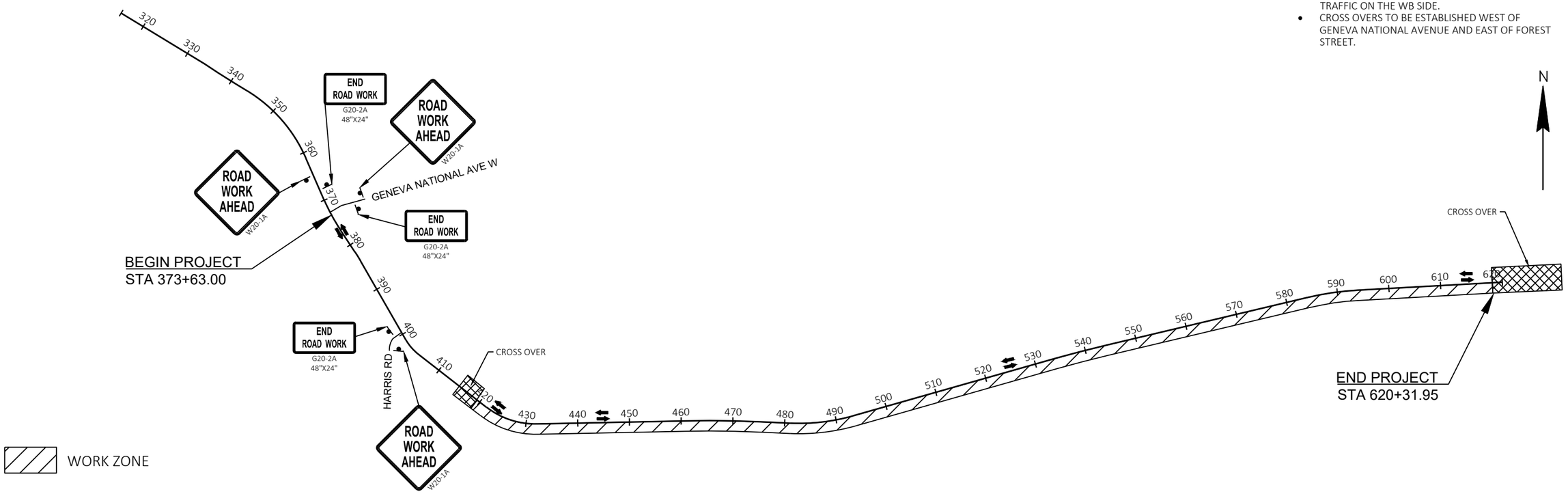
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET 91	E

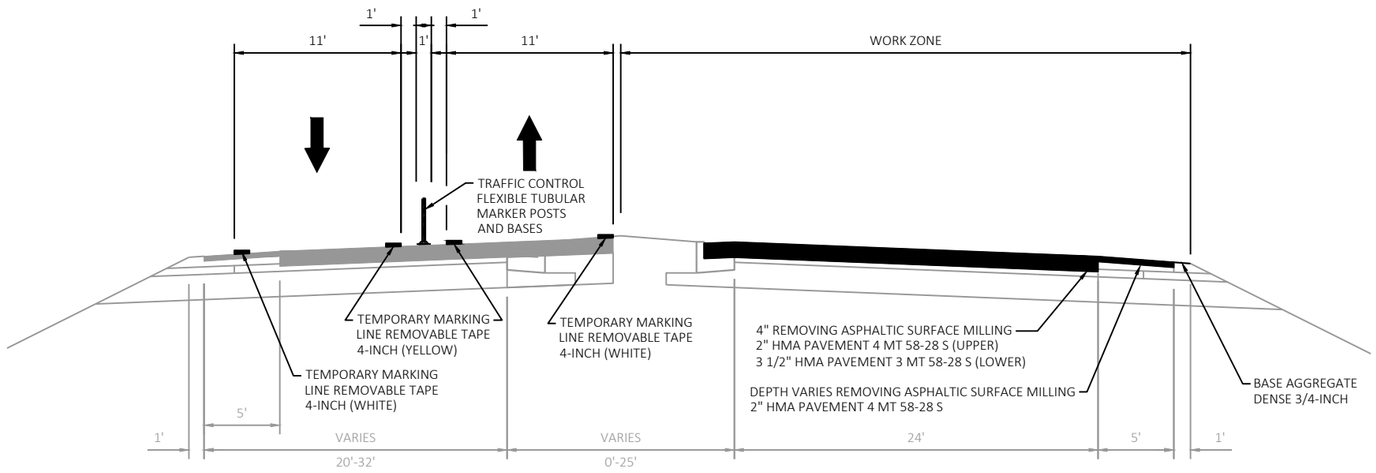
STAGE 2 CONSTRUCTION

- MILL AND OVERLAY EB SECTION OF STH 50 WITHIN THE FOUR LANE, DIVIDED SECTION.

STAGE 2 TRAFFIC

- ORIGINAL TRAFFIC PATTERN AND FLOW TO REMAIN IN THE TWO LANE, UNDIVIDED SECTION.
- TRAFFIC REDUCED TO TWO LANE BI-DIRECTIONAL TRAFFIC ON THE WB SIDE.
- CROSS OVERS TO BE ESTABLISHED WEST OF GENEVA NATIONAL AVENUE AND EAST OF FOREST STREET.





STAGE 2 TYPICAL SECTION

STA 422+00 TO STA 431+80

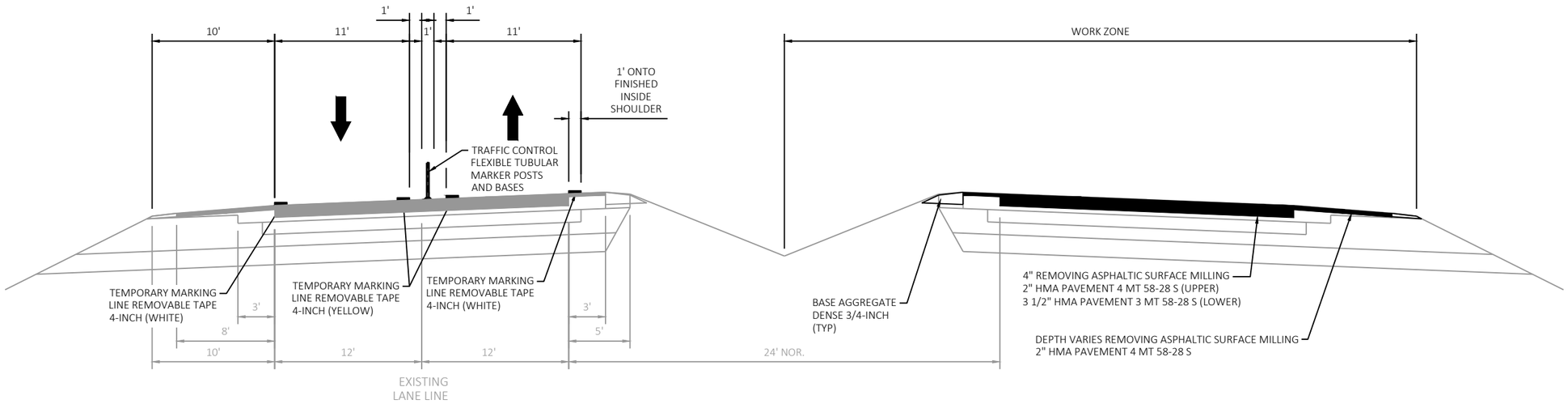
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2 OVERVIEW AND TYPICAL SECTIONS	SHEET 92	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026200-TC2.DWG
LAYOUT NAME - 01

PLOT DATE : 1/25/2022 4:37 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT

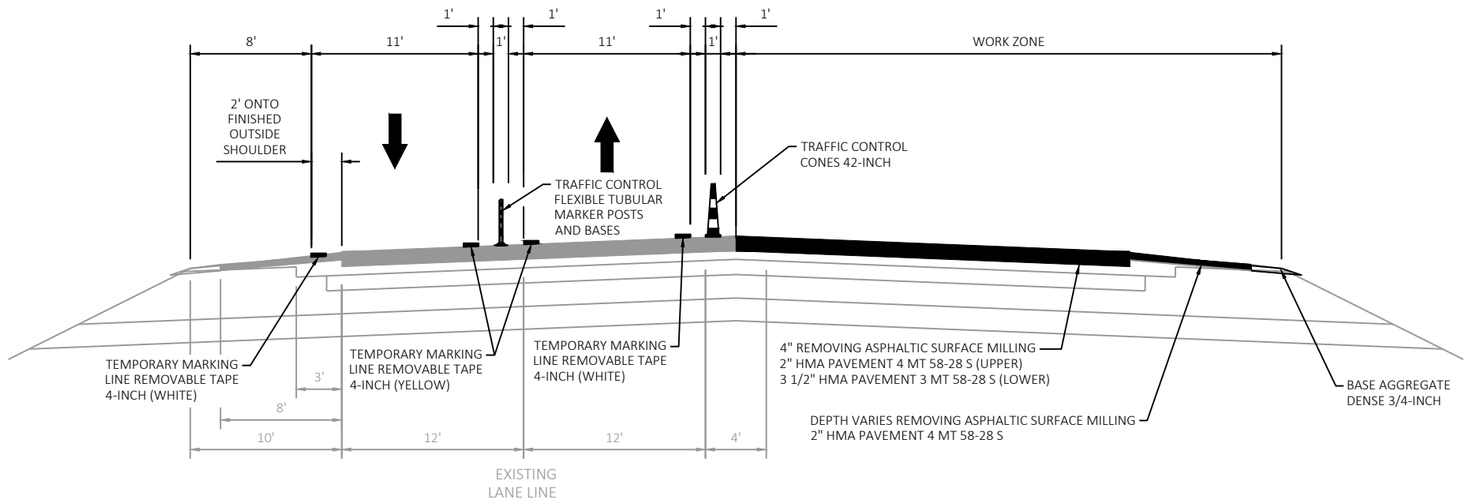
WISDOT/CADDS SHEET 44

2



STAGE 2 TYPICAL SECTION

STA 431+80 TO STA 593+80



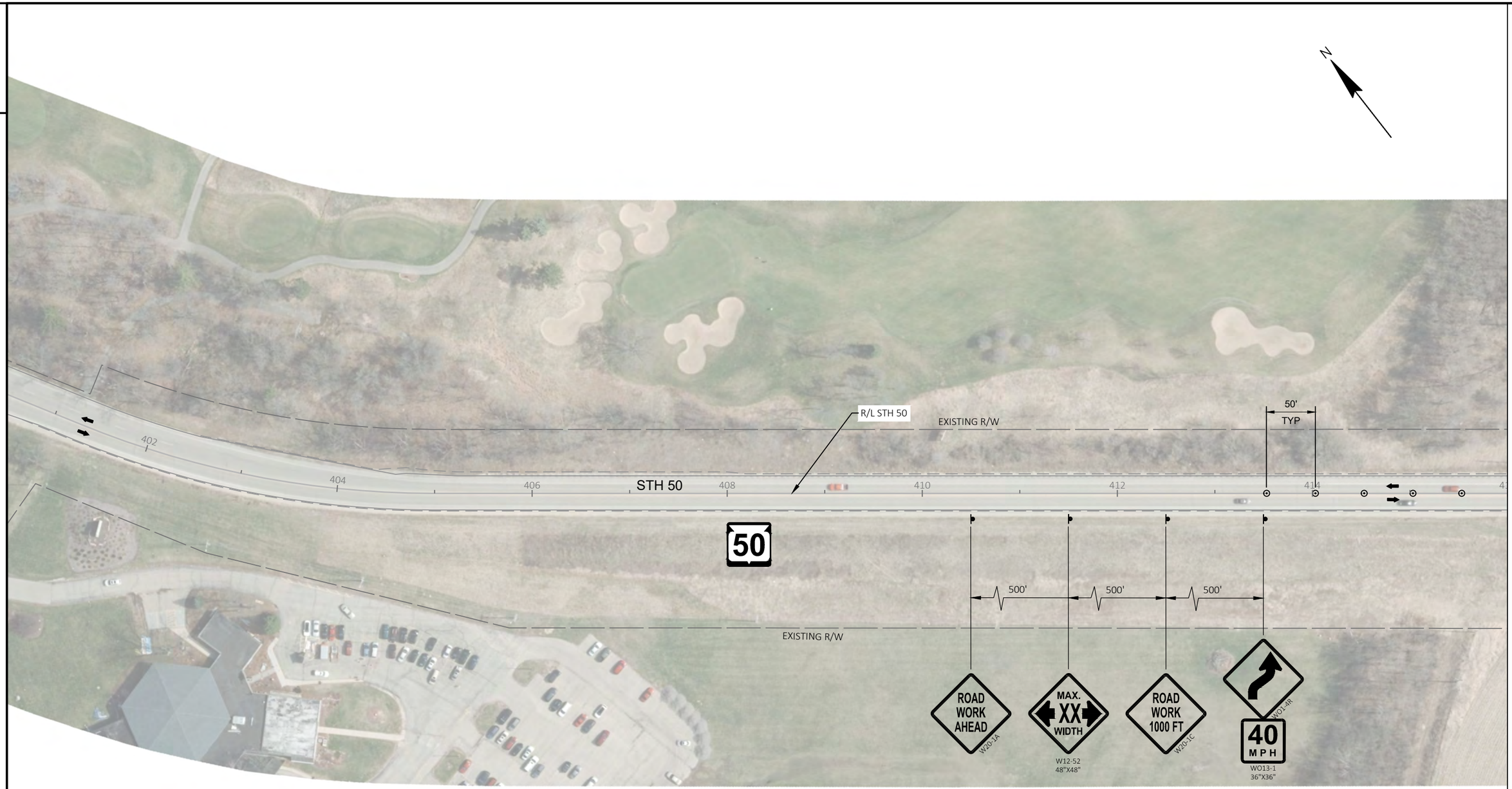
STAGE 2 TYPICAL SECTION

STA 593+80 TO STA 620+32

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2 OVERVIEW AND TYPICAL SECTIONS	SHEET 93	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026200-TC2.DWG
LAYOUT NAME - 02
PLOT DATE : 1/25/2022 4:37 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

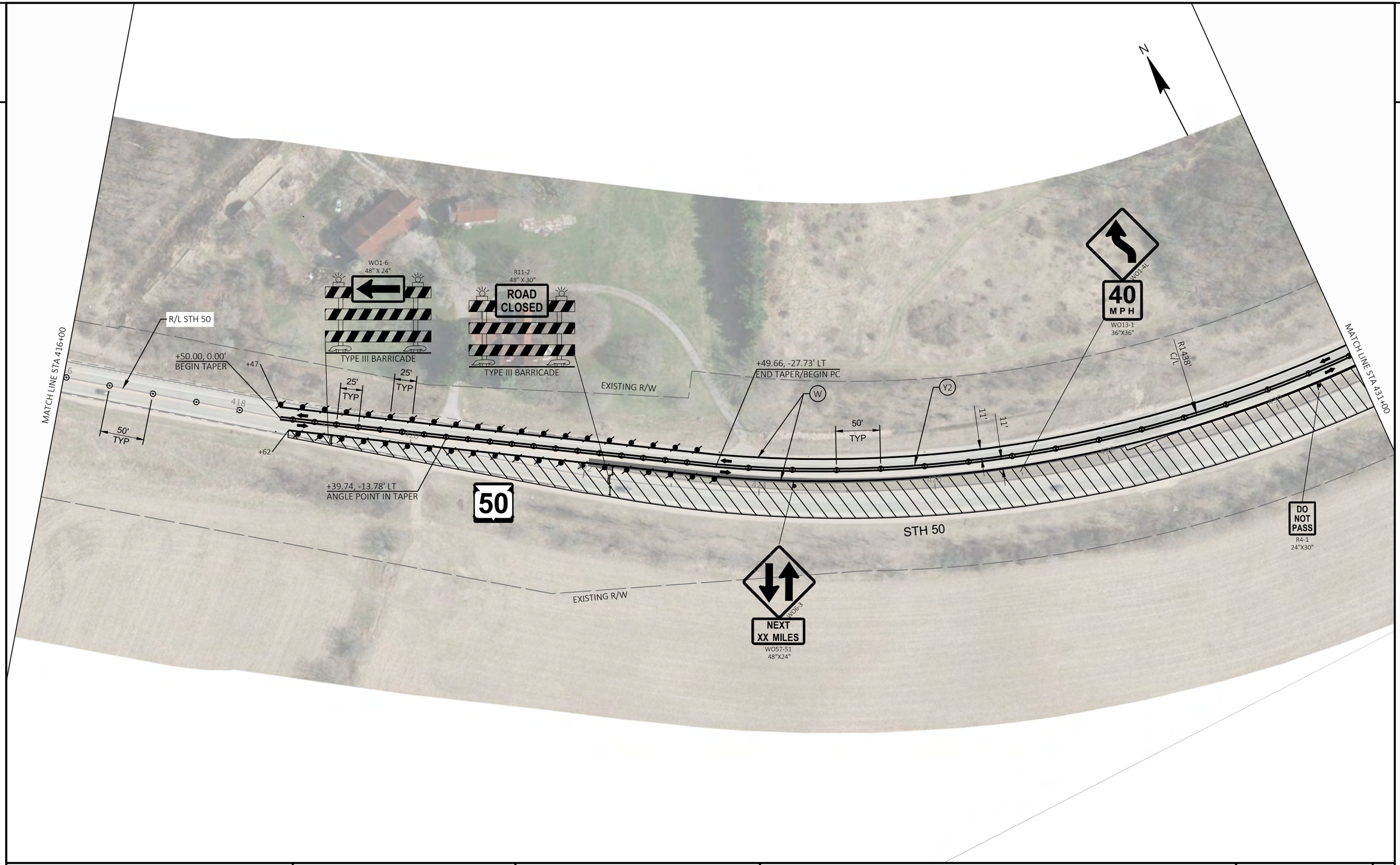


PLACE SIGNS PRIOR TO INTERSECTION OF STH 50 AND STH 67 IN THE SW QUADRANT FOR EB TRAFFIC.



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 94	E

2



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 95	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026201-S2.DWG
LAYOUT NAME - 026201-s2

PLOT DATE : 1/31/2022 5:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA 431+00

MATCH LINE STA 446+25

ROAD WORK AHEAD
W20-1A

STOP

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

NEXT XX MILES
W06-3
WO57-51
48"X24"

PRESERVE CT

BEGIN RIGHT TURN LANE
R3-20RR
24"X36"

EXISTING R/W

W2

Y2

W

11'

11'

50'
TYP

STH 50

R/L STH 50

50

EXISTING R/W

STOP
R1-1
30"X30"

END ROAD WORK
G20-2A
48"X24"

GENEVA ST

25'

WO1-6
48" X 24"

TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

NEXT XX MILES
W06-3
WO57-51
48"X24"

ROAD WORK AHEAD
W20-1A

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 96	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026201-S2.DWG
LAYOUT NAME - 026202-s2

PLOT DATE : 1/31/2022 5:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

MATCH LINE STA 446+25

MATCH LINE STA 461+50

N

ROAD WORK AHEAD
W20-1A

NEXT XX MILES
W06-3
WO57-51
48"X24"

STOP

SANCTUARY GLEN CT

WO1-6
48" X 24"
TYPE III BARRICADE

Y2

W

W2

BEGIN RIGHT TURN LANE
R3-20RR
24"X36"

DO NOT PASS
R4-1
24"X30"

50'
TYP

EXISTING R/W

R/L STH 50

11'

11'

S

INTERLAKEN DR

WO1-6
48" X 24"
TYPE III BARRICADE

STOP
R1-1
30"X30"

ROAD WORK AHEAD
W20-1A

NEXT XX MILES
W06-3
WO57-51
48"X24"

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

50

DO NOT PASS
R4-1
24"X30"

EXISTING R/W

STH 50

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

END ROAD WORK
G20-2A
48"X24"

STOP

ACCESS RD

EXISTING R/W

KNOLLWOOD DR

ROAD WORK AHEAD
W20-1A

NEXT XX MILES
W06-3
WO57-51
48"X24"

ROAD WORK AHEAD
W20-1A

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 97	E

2

2

N

MATCH LINE STA 461+50

MATCH LINE STA 476+75

ROAD WORK AHEAD W20-1A

END ROAD WORK G20-2A 48"X24"

STOP R1-1 30"X30"

BEGIN RIGHT TURN LANE R3-20RR 24"X36"

EXISTING R/W

W2

Y2

W

50' TYP

11'

11'

S

RED CHIMNEY RD

R11-2 48" X 30"

ROAD CLOSED

TYPE III BARRICADE

ROAD WORK AHEAD W20-1A

END ROAD WORK G20-2A 48"X24"

STOP

EXISTING R/W

STH 50

R/L STH 50

50

ACCESS RD

CISCO RD

END ROAD WORK G20-2A 48"X24"

STOP

R11-2 48" X 30"

ROAD CLOSED

TYPE III BARRICADE

ROAD WORK AHEAD W20-1A

ROAD WORK AHEAD W20-1A

NEXT XX MILES WO57-51 48"X24"

W06-3

EXISTING R/W

R11-2 48" X 30"

ROAD CLOSED

TYPE III BARRICADE

WINDWOOD LN

ROAD WORK AHEAD W20-1A

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

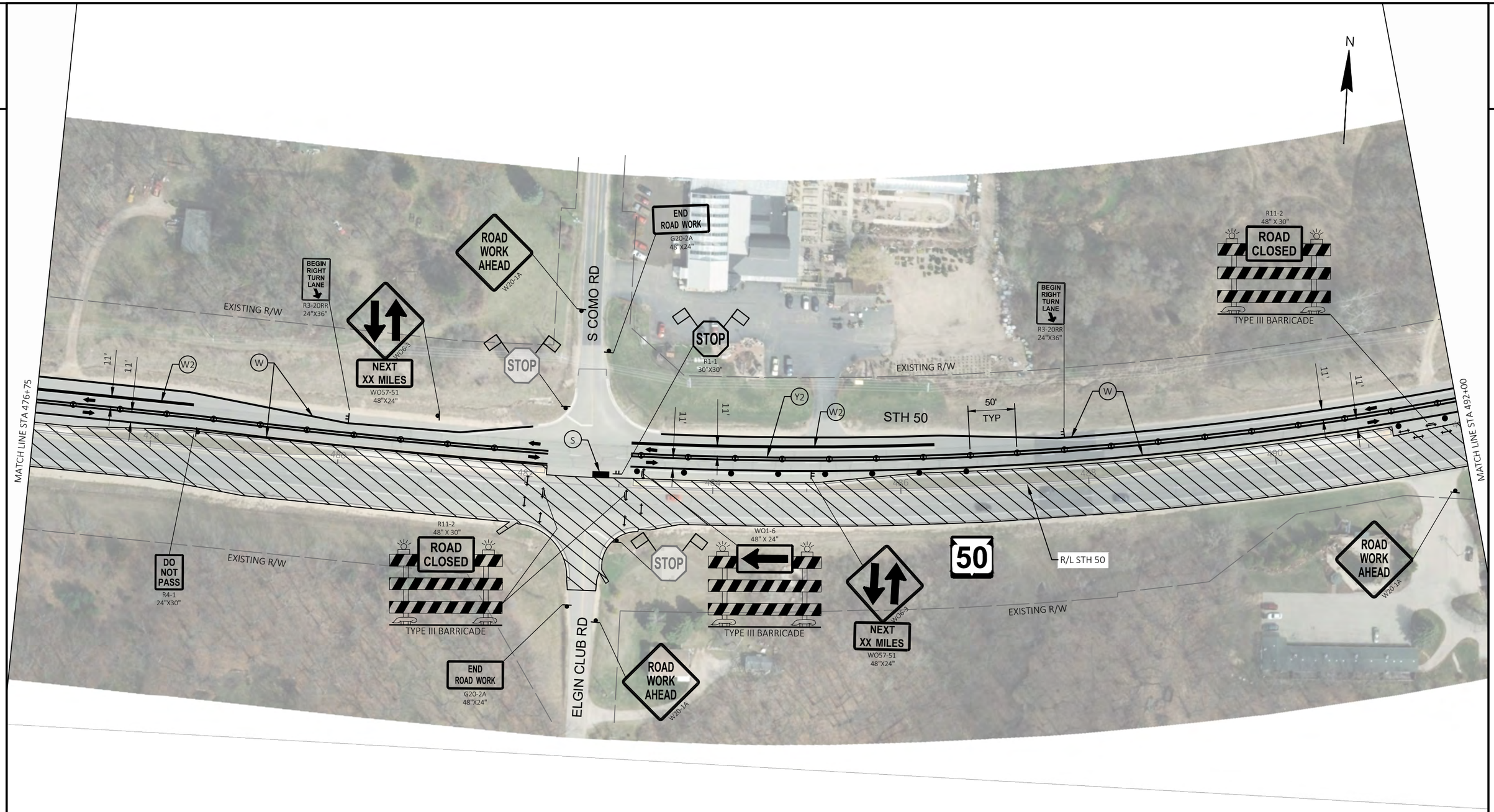
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 98	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026201-S2.DWG
LAYOUT NAME - 026204-21

PLOT DATE : 1/31/2022 5:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 99	E

2

2

N

MATCH LINE STA 492+00

MATCH LINE STA 507+25

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

DO NOT PASS
R4-1
24"X30"

EXISTING R/W

50

Y2

W

11'

11'

50'
TYP

CENTRAL DR

SUNSET PARK DR

EXISTING R/W

EXISTING R/W

SOUTH END RD

11'

11'

STH 50

WO1-6
48" X 24"

R/L STH 50

KENYARD DR

DO NOT PASS
R4-1
24"X30"

EXISTING R/W

KENYON DR

TYPE III BARRICADE

EXISTING R/W

STOP

ROAD WORK AHEAD
W20-1A

BUBLITZ RD

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 100	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026201-S2.DWG
LAYOUT NAME - 026206-s2

PLOT DATE : 1/31/2022 5:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCH LINE STA 507+25

MATCH LINE STA 522+50

ROAD WORK AHEAD
W20-1A

NEXT XX MILES
WO57-51
48"X24"
WO6-3

STOP

SUNSET BLVD

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"

BEGIN RIGHT TURN LANE
R3-20RR
24"X36"

SOUTH END RD

11'
11'
11'
11'

EXISTING R/W

W2

50'
TYP

Y2

W

EXISTING R/W

S

505
510
515
520
522

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

END ROAD WORK
G20-2A
48"X24"

CHAPIN DR

ROAD WORK AHEAD
W20-1A

STOP

WO1-6
48" X 24"
TYPE III BARRICADE

NEXT XX MILES
WO57-51
48"X24"
WO6-3

R/L STH 50

STH 50

50

EXISTING R/W

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 101	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026201-S2.DWG
LAYOUT NAME - 026207-s2

PLOT DATE : 1/31/2022 5:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCH LINE STA 522+50

MATCH LINE STA 537+75

N

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

DO NOT PASS
R4-1
24"X30"

EXISTING R/W

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

Y2

11'
11'

50'
TYP

WO6-3
NEXT XX MILES
WO57-51
48"X24"

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

11'
11'

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

STOP

SCHOFIELD RD

S

526
528
530
532
534
536

STH 50

W

50

R/L STH 50

EXISTING R/W

STOP
R1-1
30"X30"

STOP

DO NOT PASS
R4-1
24"X30"

END ROAD WORK
G20-2A
48"X24"

SNAKE RD

ROAD WORK AHEAD
W20-1A

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 102	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026201-S2.DWG
LAYOUT NAME - 026208-s2

PLOT DATE : 1/31/2022 5:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

SCHOFIELD RD

EL DORADO DR

WOODLANE RD

ROAD WORK AHEAD
W20-1A

WO1-6
48" X 24"
TYPE III BARRICADE

STOP

BEGIN RIGHT TURN LANE
R3-20RR
24"X36"

EXISTING R/W

W2

Y2

50'
TYP

11'

538 540 542 544 546 548 550 552

MATCH LINE STA 537+75

MATCH LINE STA 553+00

50
STH 50

R/L STH 50

W

EXISTING R/W

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

WO6-3
NEXT XX MILES
WO57-51
48"X24"

DO NOT PASS
R4-1
24"X30"

NOTE

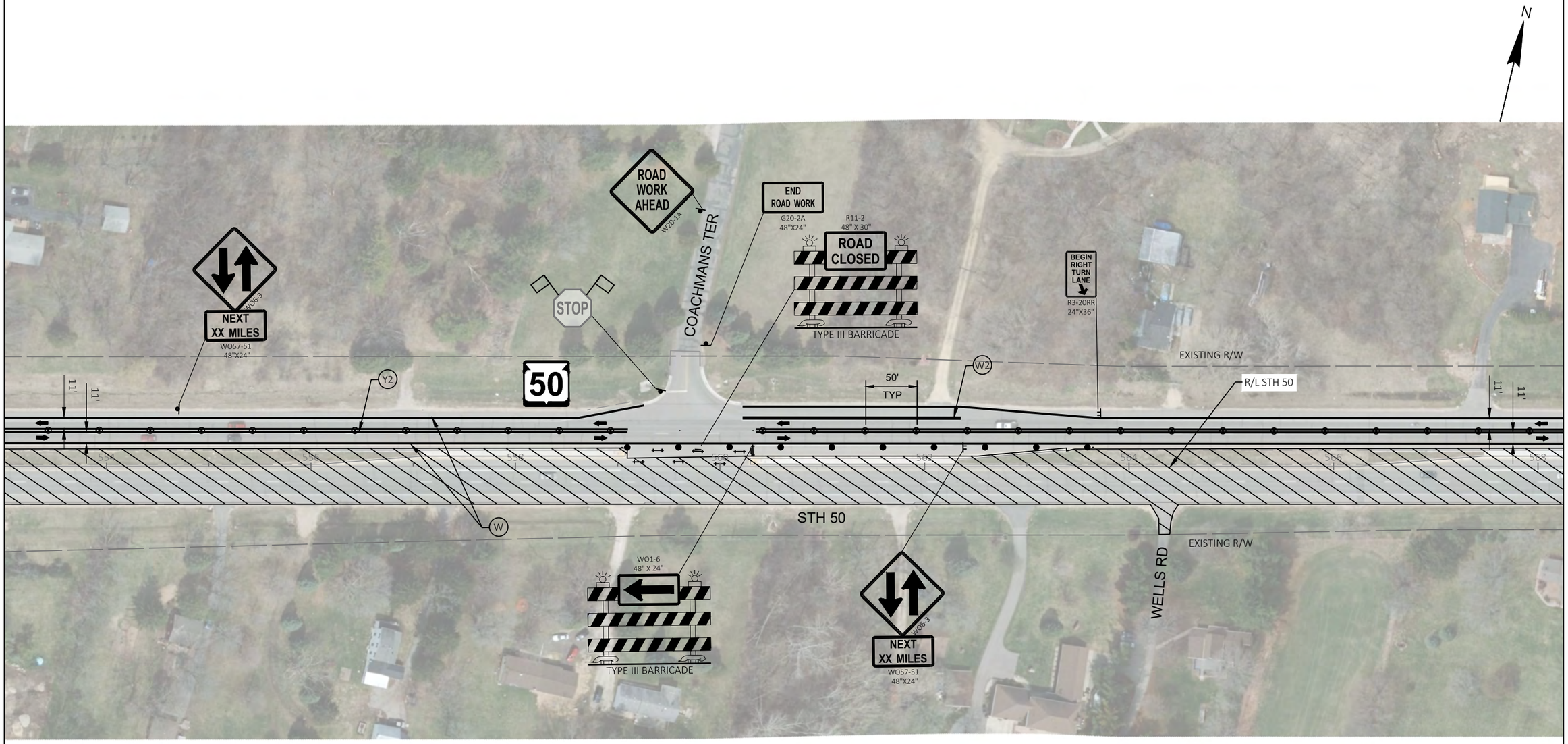
- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 103	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026201-S2.DWG
LAYOUT NAME - 026209-s2

PLOT DATE : 1/31/2022 5:20 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

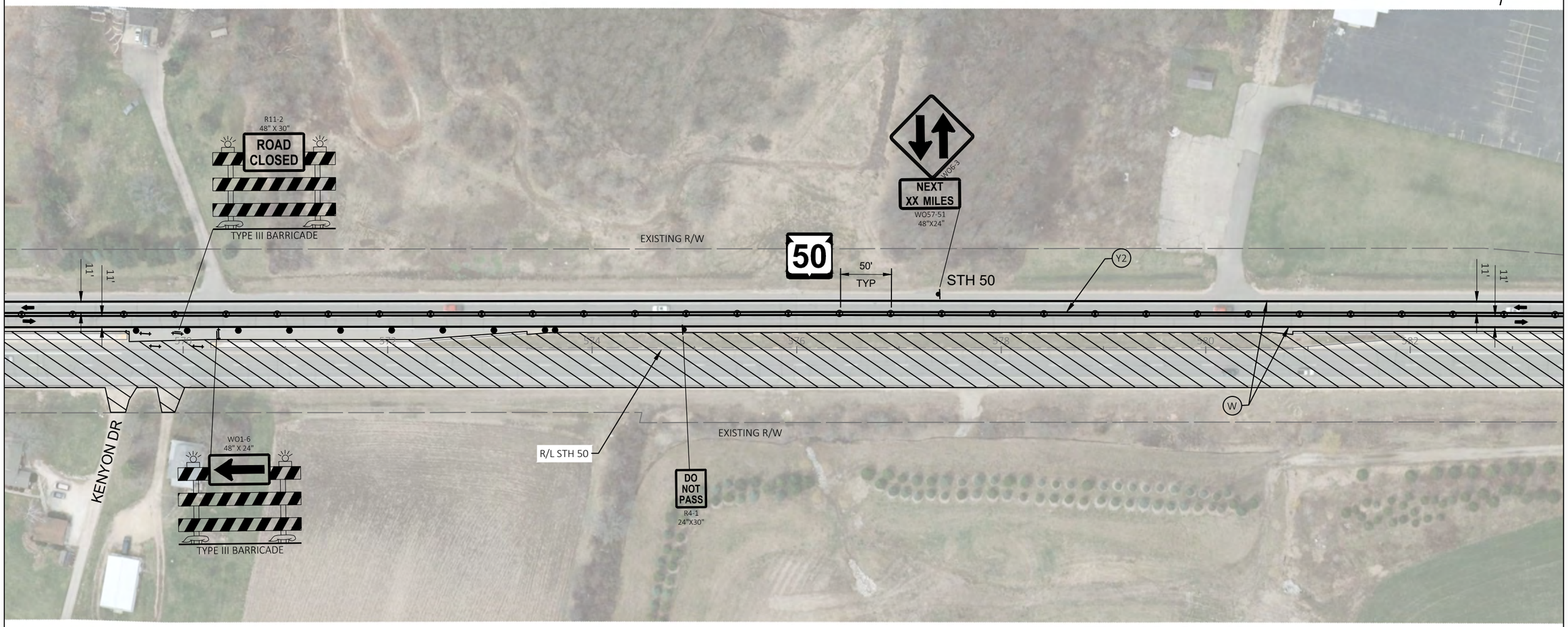


NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 104	E

2



NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 105	E

2

N

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

DO NOT PASS
R4-1
24"X30"

R/L STH 50

EXISTING R/W

50'
TYP

Y2

W

11'

11'

580

582

584

586

588

590

592

594

596

598

MATCH LINE STA 583+50

MATCH LINE STA 598+75

STH 50

50

EXISTING R/W

50'
TYP

W063

NEXT
XX MILES
WO57-51
48"X24"

W063

NEXT
XX MILES
WO57-51
48"X24"

DO NOT PASS
R4-1
24"X30"

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 106	E

2

N

MATCH LINE STA 598+75

MATCH LINE STA 614+00

ROAD WORK AHEAD
W20-1A

STOP

END ROAD WORK
G20-2A
48"X24"

DUMMER DR

EXISTING R/W

EXISTING R/W

EXISTING R/W

11'

11'

50'
TYP

Y2

W

600 602 604 606 608 610 612

11'

11'

STH 50

50

R/L STH 50

50'
TYP

EXISTING R/W

W057-3

NEXT
XX MILES
WO57-51
48"X24"

NOTE

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 107	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026201-S2.DWG
LAYOUT NAME - 026213-s2

PLOT DATE : 1/31/2022 5:21 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

PLACE SIGNS PRIOR TO INTERSECTION OF STH 50 AND STH 120/EDWARDS BLVD IN THE NE QUADRANT FOR WB TRAFFIC.

MAX. XX WIDTH
W12-52
48"X48"

NEXT XX MILES
WO57-51
48"X24"

N

SKY LN DR

ROAD WORK AHEAD
W20-1A

MAX. XX WIDTH
W12-52
48"X48"

ROAD WORK 1000 FT
W20-1C

W01-4L

350'
650'
500'
500'
500'

END ROAD WORK
G20-2A
48"X24"

50' W OF LAKE VIEW DR
END TAPER/END PT

LAKE VIEW DR

MATCH LINE STA 614+00

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

NEXT XX MILES
W06-3
WO57-51
48"X24"

EXISTING R/W

FOREST ST

PEARSON DR

EXISTING R/W

+32.00, -15.50' LT
BEGIN TAPER

END PROJECT
STA 620+31.95

25'
TYP

50

300' W OF LAKE VIEW DR
BEGIN PC

R844'
C/L

STH 50

25'
TYP

11'
11'
11'
11'

W
Y2

STOP
STOP

616
618
620

50'
TYP

R/L STH 50

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

EXISTING R/W

EXISTING R/W

SNAKE RD

500'

200'

W01-4L

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED AHEAD
W20-3A

NOTES

- MAINTAIN ACCESS TO PROPERTIES ALONG THE PROJECT FOR LOCAL RESIDENTS AND BUSINESSES WITHIN CLOSED WORK ZONE.
- APPLY TEMPORARY REMOVABLE TAPE BEYOND PROJECT LIMITS (STA 620+31.95).

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET 108	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026201-S2.DWG
LAYOUT NAME - 026214-s2
PLOT DATE : 1/31/2022 5:21 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

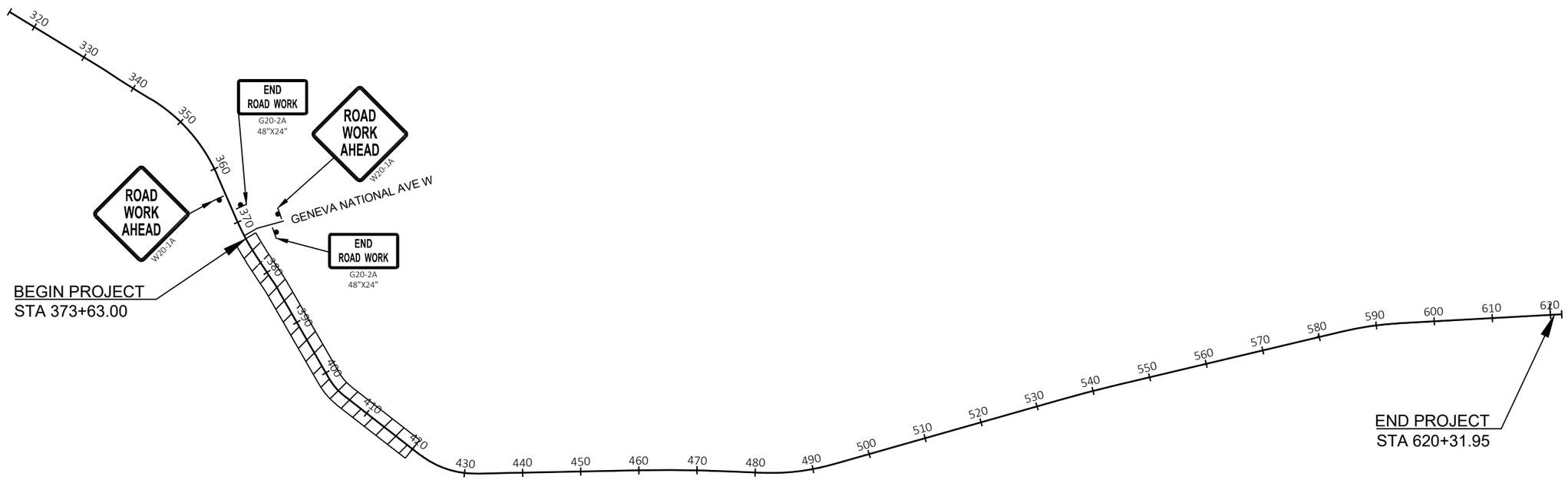
STAGE 3 CONSTRUCTION

- MILL AND OVERLAY SECTION OF STH 50 WITHIN THE TWO LANE, UNDIVIDED SECTION.
- INSTALL NEW BEAM GUARD.

STAGE 3 TRAFFIC

- ONE LANE FLAGGING OPERATION THROUGH TWO LANE SECTION
- FLAGGERS TO BE A MAXIMUM OF A HALF MILE APART. ADJUST SIGNS AND FLAGGER LOCATIONS AS DIRECTED BY THE ENGINEER.
- UTILIZE SDD TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION FOR SIGNS AND DEVICES.

N

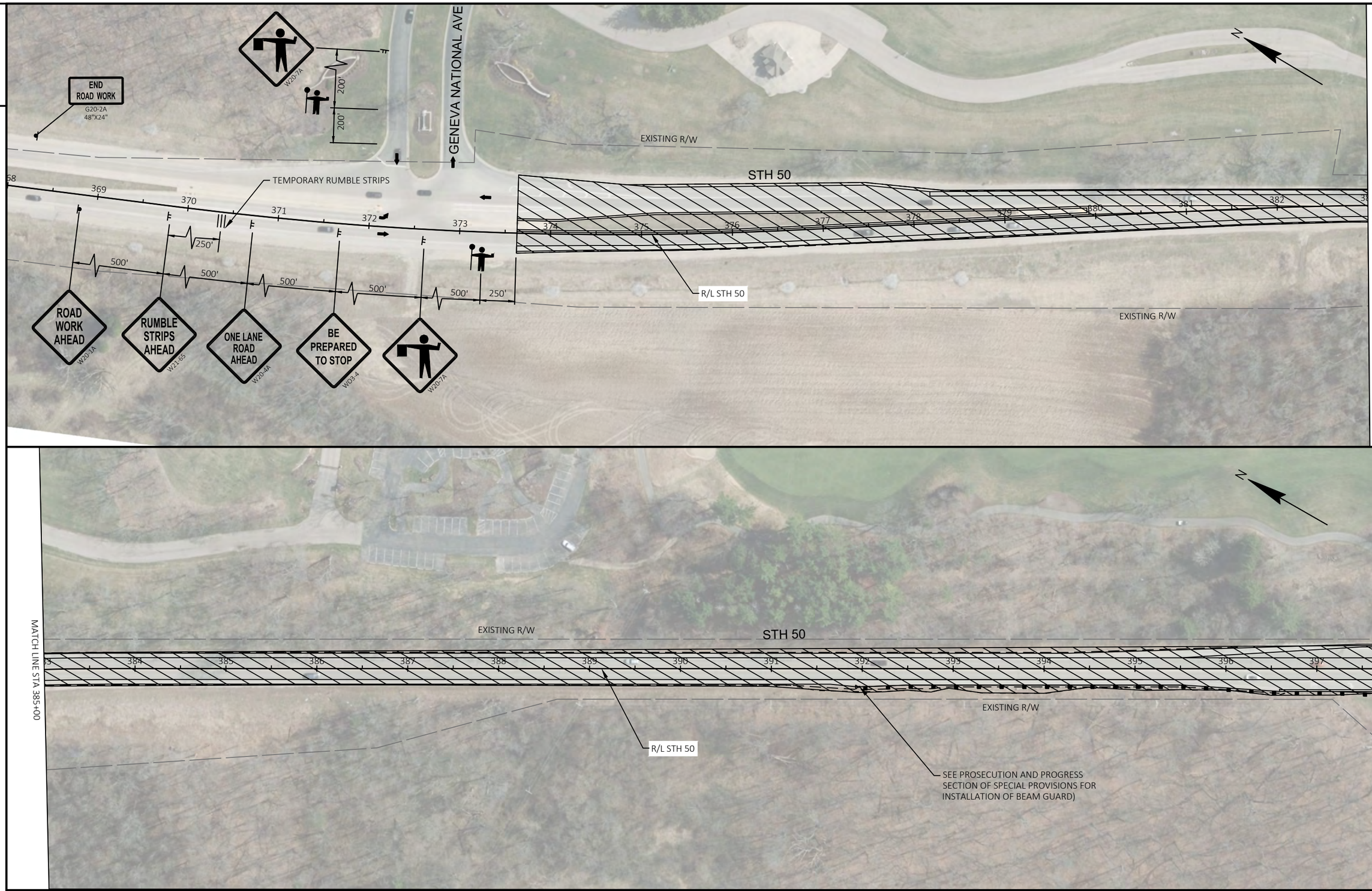


WORK ZONE

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 3 OVERVIEW	SHEET 109	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026300-TC3.DWG
LAYOUT NAME - 01

PLOT DATE : 3/23/2022 12:53 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 3	SHEET 110	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026301-S3.DWG
LAYOUT NAME - 01-s3

PLOT DATE : 1/25/2022 3:55 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE STA 398+00

HARRIS RD

399 400 401 402 403 404 405 406 407 408 409 410 411 412

STH 50

SEE PROSECUTION AND PROGRESS SECTION OF SPECIAL PROVISIONS FOR INSTALLATION OF BEAM GUARD (TYP)

R/L STH 50

EXISTING R/W

N

MATCH LINE STA 412+00

250' 500' 500' 500' 250' 500' 500'

W20-7A

BE PREPARED TO STOP

W03-4

ONE LANE ROAD AHEAD

W20-4A

RUMBLE STRIPS AHEAD

W21-5S

ROAD WORK AHEAD

W20-1A

MEASURED ALONG THE C/L OF HARRIS RD

TEMPORARY RUMBLE STRIPS

END ROAD WORK

G20-2A

48"X24"

FOLLOW ALONG HARRIS RD

MATCH LINE STA 412+00

EXISTING R/W

413 414 415 416 417 418 419 420 421 422 423 424 425 426 427

R/L STH 50

STH 50

DO NOT USE SIGN IF STAGE 3 WORK IS DONE SIMULTANEOUSLY AS STAGE 2

W20-7A BE PREPARED TO STOP W03-4 ONE LANE ROAD AHEAD W20-4A RUMBLE STRIPS AHEAD W21-5S ROAD WORK AHEAD W20-1A

250' 500' 500' 500' 250' 500' 500'

TEMPORARY RUMBLE STRIPS

EXISTING R/W

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 3	SHEET 111	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\026301-S3.DWG
LAYOUT NAME - 02-s3

PLOT DATE : 1/25/2022 3:55 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:100 FT

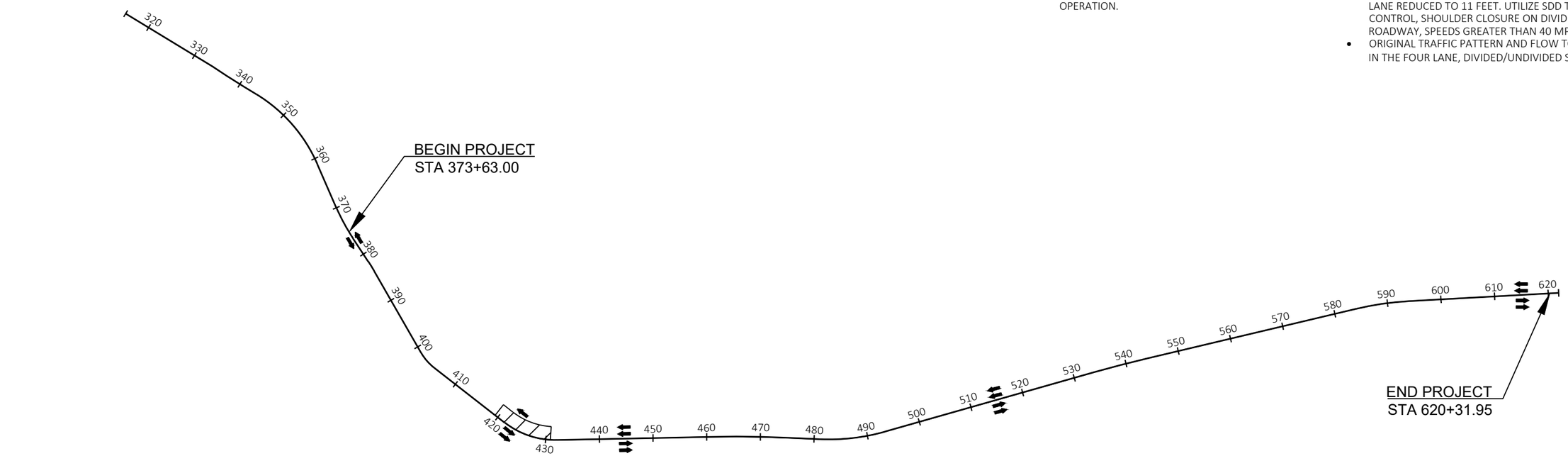
2

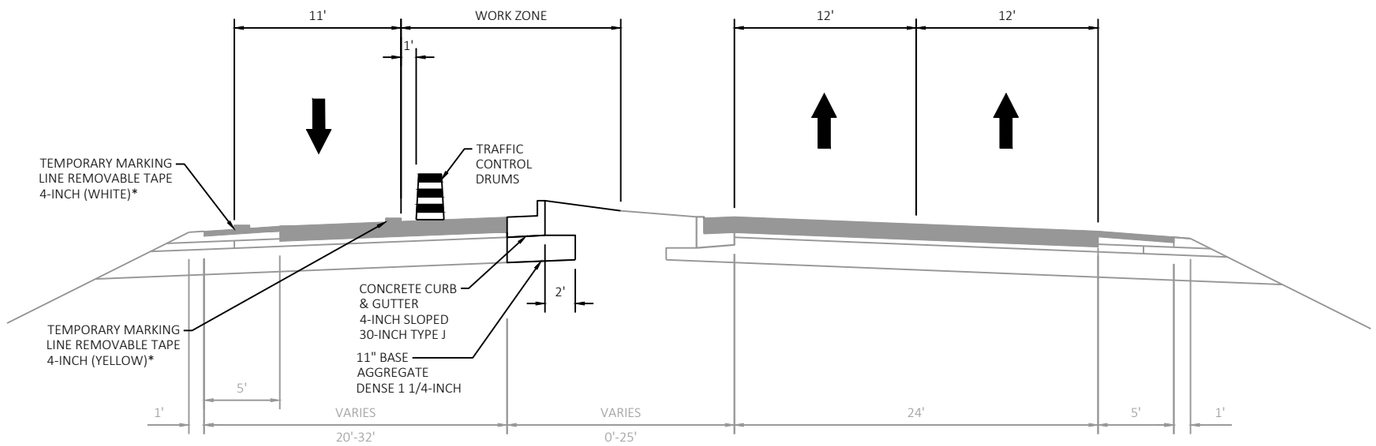
STAGE 4 CONSTRUCTION

- REMOVE TEMPORARY PAVEMENT FOR CROSS OVER IN PREVIOUS STAGES AND REINSTALL CURB AND GUTTER. SHOULDER CLOSURE TO BE IN PLACE FOR OPERATION.

STAGE 4 TRAFFIC

- ORIGINAL TRAFFIC PATTERN AND FLOW TO REMAIN IN THE TWO LANE, UNDIVIDED SECTION.
- WB SECTION ADJACENT TO WORK ZONE TO HAVE LANE REDUCED TO 11 FEET. UTILIZE SDD TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH.
- ORIGINAL TRAFFIC PATTERN AND FLOW TO REMAIN IN THE FOUR LANE, DIVIDED/UNDIVIDED SECTION.





NOTE

* MAINTAIN AND KEEP TEMPORARY MARKING LINE REMOVABLE TAPE FROM STAGE 2 ONLY ADJACENT TO STAGE 4 WORK ZONE.

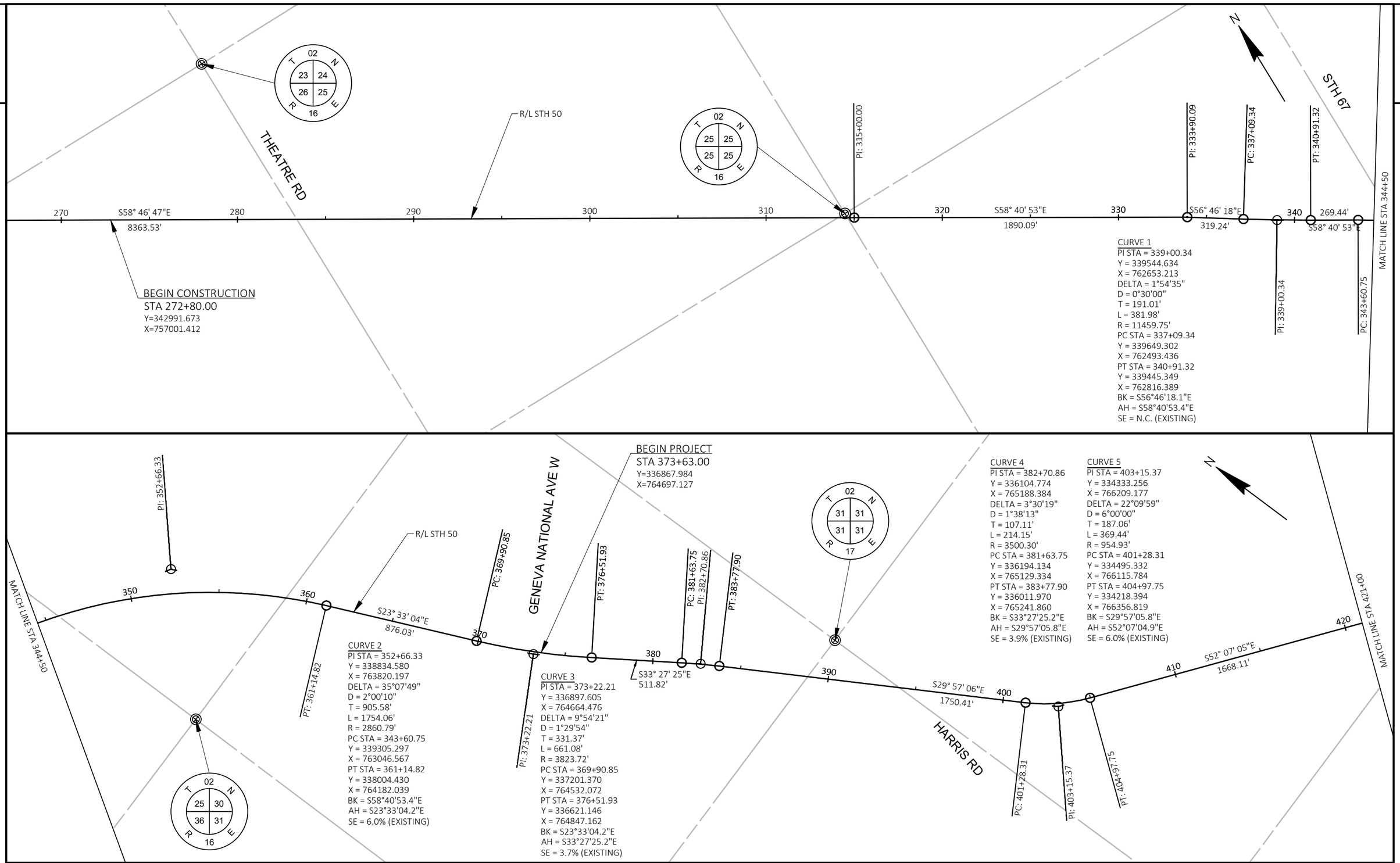
STAGE 4 TYPICAL SECTION

STA 422+00 TO STA 431+80

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 4 OVERVIEW AND TYPICAL SECTIONS	SHEET 112	E

2

2



PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	ALIGNMENT PLAN	SHEET 113	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 01-ad
PLOT DATE : 1/25/2022 3:54 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 44

2

MATCH LINE STA 421+00

PC: 421+65.86

PI: 427+10.40

T 02 N R 17 E 31 32

T 01 N R 17 E 06 05

PT: 432+11.96

PI: 436+03.24

PRESERVE CT

PI: 441+03.24

R/L STH 50

SANCTUARY GLEN DR

SECTION CORNER MONUMENTS

INTERLAKEN DR

PC: 460+62.49

PI: 468+00.34

RED CHIMNEY RD

PT: 475+37.67

PC: 481+12.46

S COMO RD

SECTION CORNER MONUMENTS

PT: 493+38.59

MATCH LINE STA 497+50

N

N74° 09' 08"E

4052.28'

N88° 36' 24"E

391.28'

N88° 49' 58"E

500.00'

N88° 51' 23"E

1959.25'

S87° 27' 21"E

574.78'

420 430 440 450 460 470 480 490

GENEVA ST

KNOLLWOOD DR

SHORE VIEW DR

GREENLEAF RD

ACCESS RD

CISCO RD

WINDWOOD LN

ELGIN CLUB RD

KENYARD DR

T 02 N R 17 E 32 32

T 01 N R 17 E 05 05

T 02 N R 17 E 32 33

T 01 N R 17 E 05 04

PI: 487+30.84

CURVE 6
PI STA = 427+10.40
Y = 332859.745
X = 768103.214
DELTA = 39°16'31"
D = 3°45'16"
T = 544.54'
L = 1046.10'
R = 1526.08'
PC STA = 421+65.86
Y = 333194.115
X = 767673.418
PT STA = 432+11.96
Y = 332872.987
X = 768647.597
BK = S52°07'04.9"E
AH = N88°36'23.8"E
SE = 7.6% (EXISTING)

CURVE 7
PI STA = 468+00.34
Y = 332946.520
X = 772235.220
DELTA = 3°41'17"
D = 0°15'00"
T = 737.84'
L = 1475.18'
R = 22918.31'
PC STA = 460+62.49
Y = 332931.793
X = 771497.522
PT STA = 475+37.67
Y = 332913.766
X = 772972.337
BK = N88°51'22.7"E
AH = S87°27'20.6"E
SE = N.C. (EXISTING)

CURVE 8
PI STA = 487+30.84
Y = 332860.800
X = 774164.330
DELTA = 18°23'31"
D = 1°30'00"
T = 618.39'
L = 1226.13'
R = 3819.72'
PC STA = 481+12.46
Y = 332888.251
X = 773546.553
PT STA = 493+38.59
Y = 333029.670
X = 774759.212
BK = S87°27'20.6"E
AH = N74°09'08.1"E
SE = 2.9% (EXISTING)

CURVE 9
PI STA = 538+91.40
Y = 334272.960
X = 779138.970
DELTA = 2°30'08"
D = 0°15'00"
T = 500.53'
L = 1000.89'
R = 22918.31'
PC STA = 533+90.87
Y = 334136.276
X = 778657.469
PT STA = 543+91.76
Y = 334388.493
X = 779625.979
BK = N74°09'08.1"E
AH = N76°39'16.1"E
SE = N.C. (EXISTING)

MATCH LINE STA 497+50

SOUTH END RD

LAKE VIEW DR

CENTRAL DR

SUNSET PARK DR

SUNSET BLVD

R/L STH 50

PC: 533+90.87

PI: 538+91.40

SCHOFIELD RD

EL DORADO DR

WOODLANE RD

COACHMANS TER

N

N74° 09' 08"E

4052.28'

N76° 39' 16"E

3999.34'

500 510 520 530 540 550 560 570

MATCH LINE STA 574+00

BUBLITZ RD

CHAPIN DR

KENYON DR

SNAKE RD

WELLS RD

KENYON DR

PT: 543+91.76

T 02 N R 17 E 34 34 34 34

T 01 N R 17 E 04 04

T 02 N R 17 E 33 33

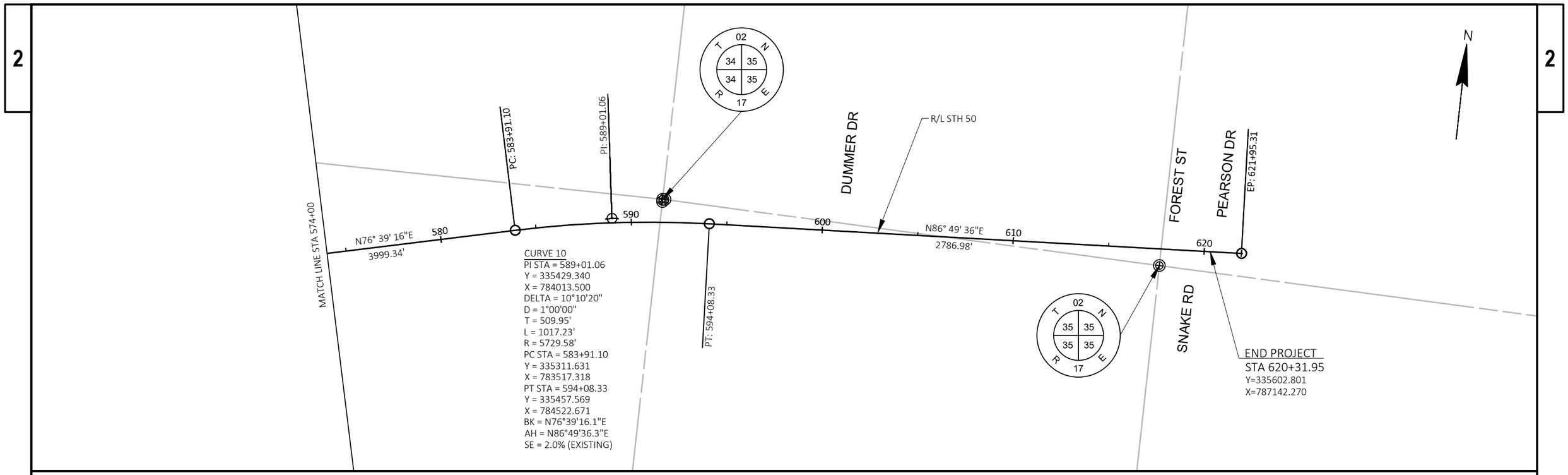
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	ALIGNMENT PLAN	SHEET 114	E

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LAYOUT NAME - 02-ad

PLOT DATE : 1/25/2022 3:54 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 44



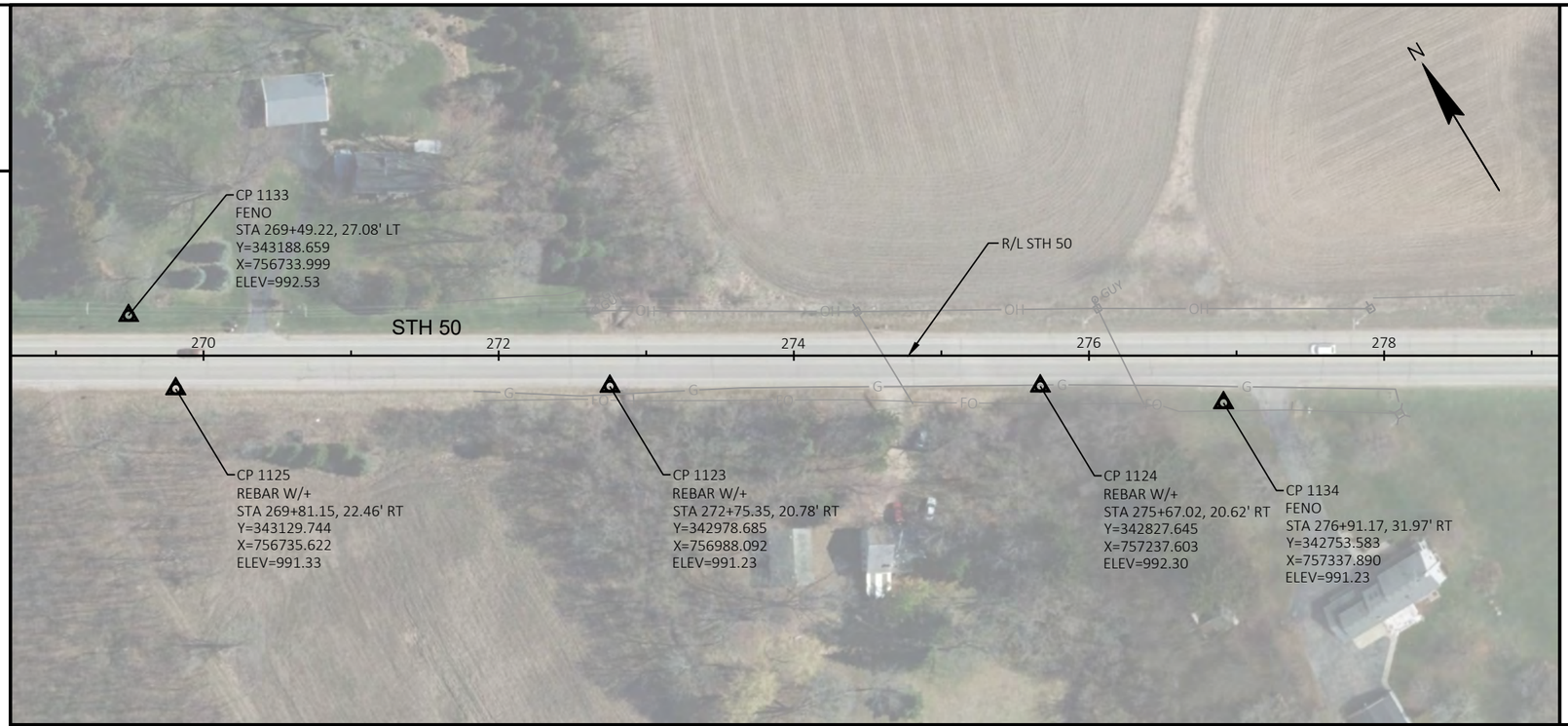
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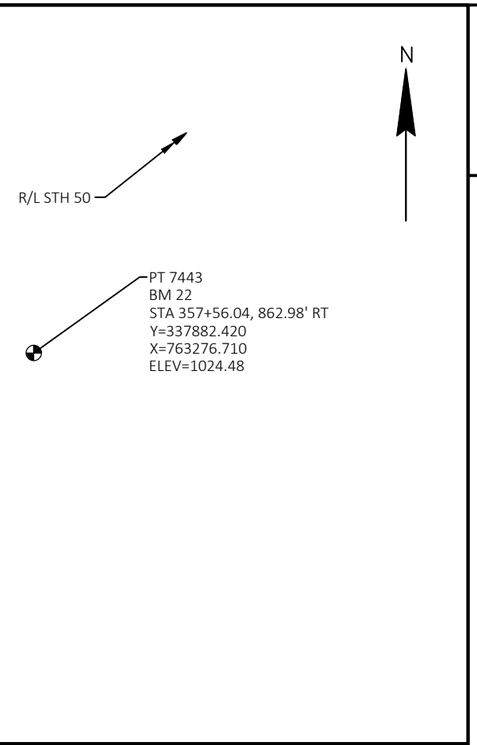
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LAYOUT NAME - 03-ad

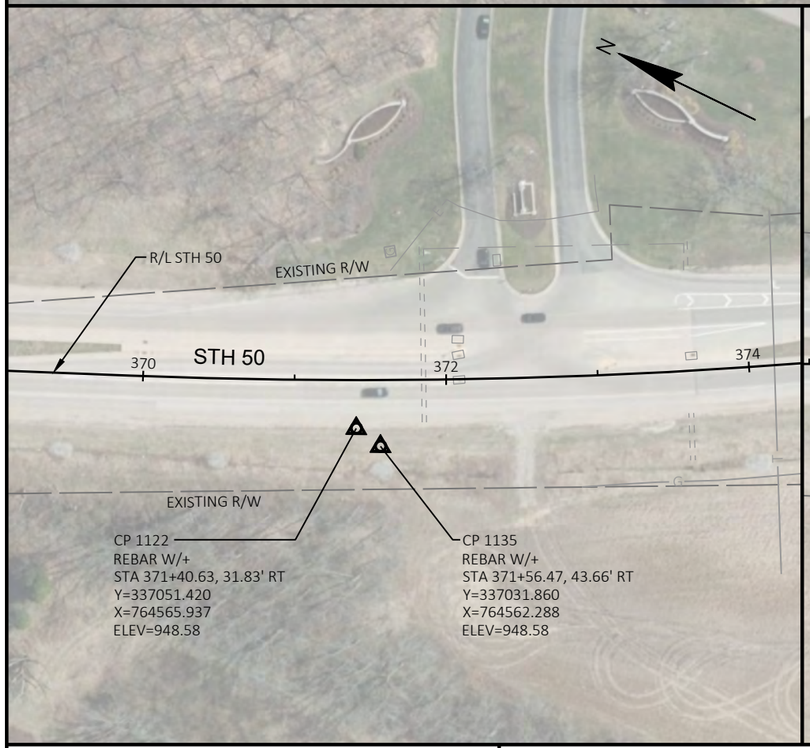
PLOT DATE : 1/25/2022 3:54 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:500 FT

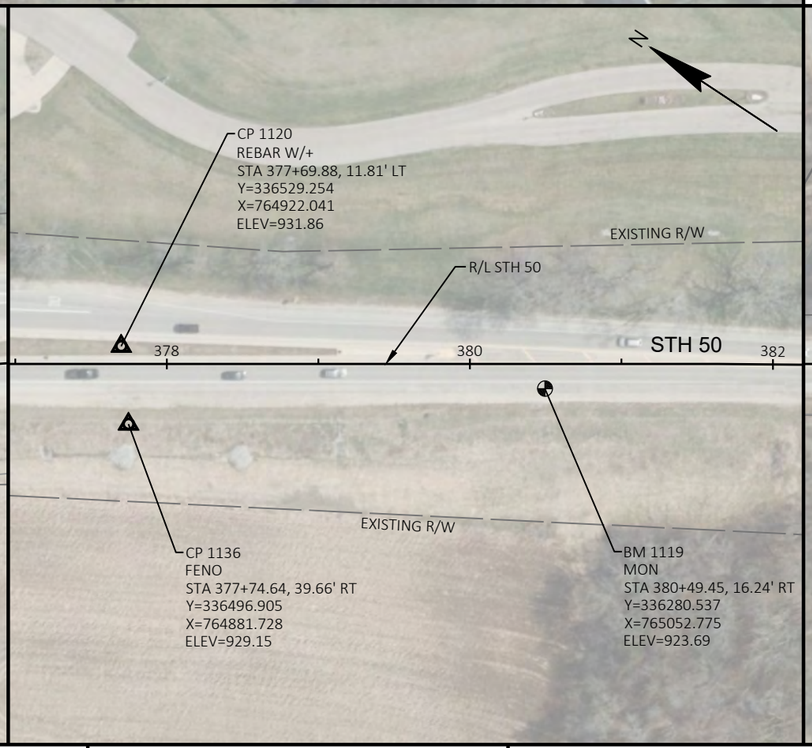
WISDOT/CADDS SHEET 44

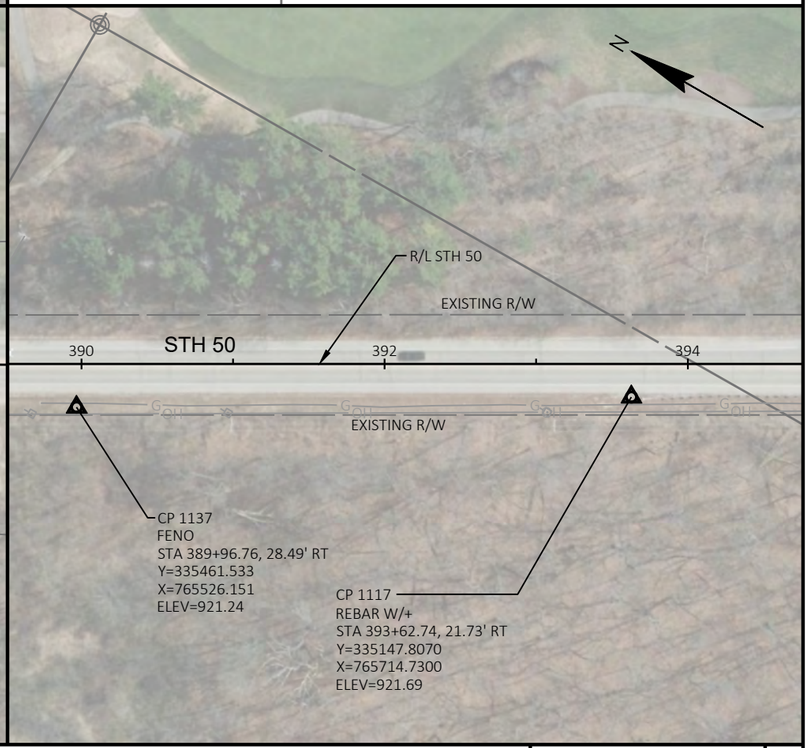
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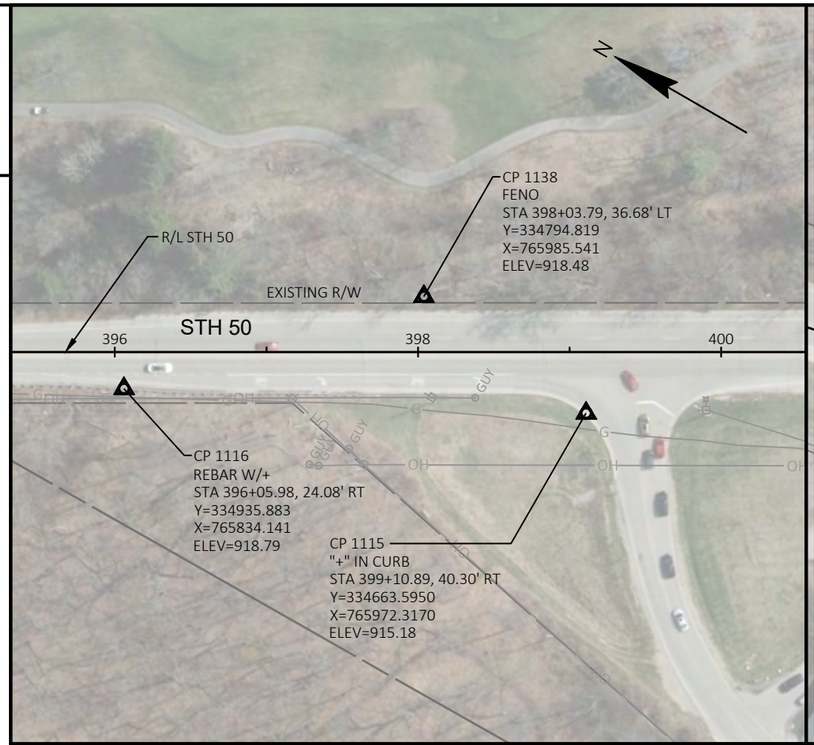


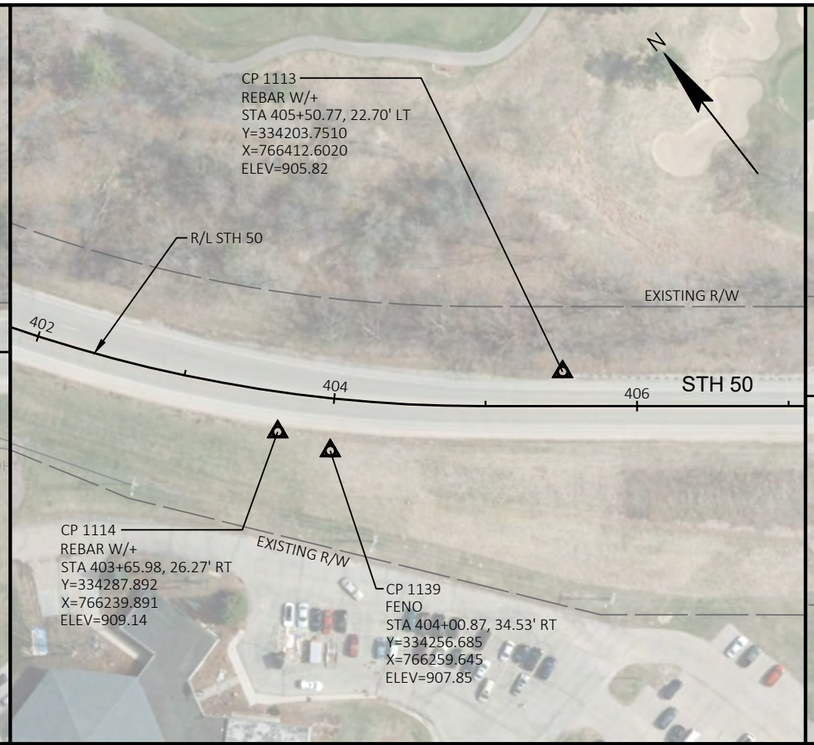


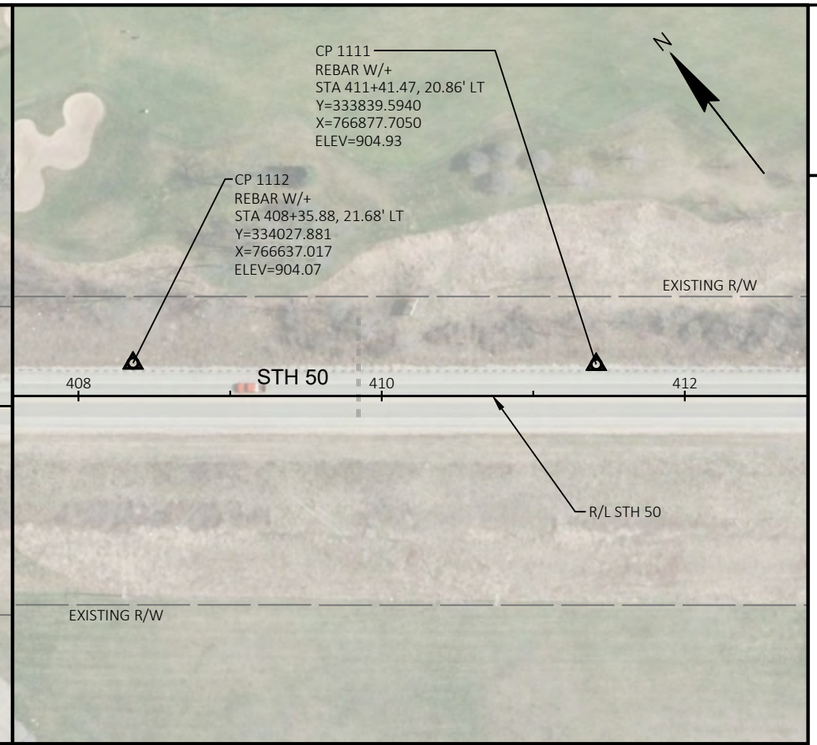
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	SURVEY CONTROL	SHEET 116	E

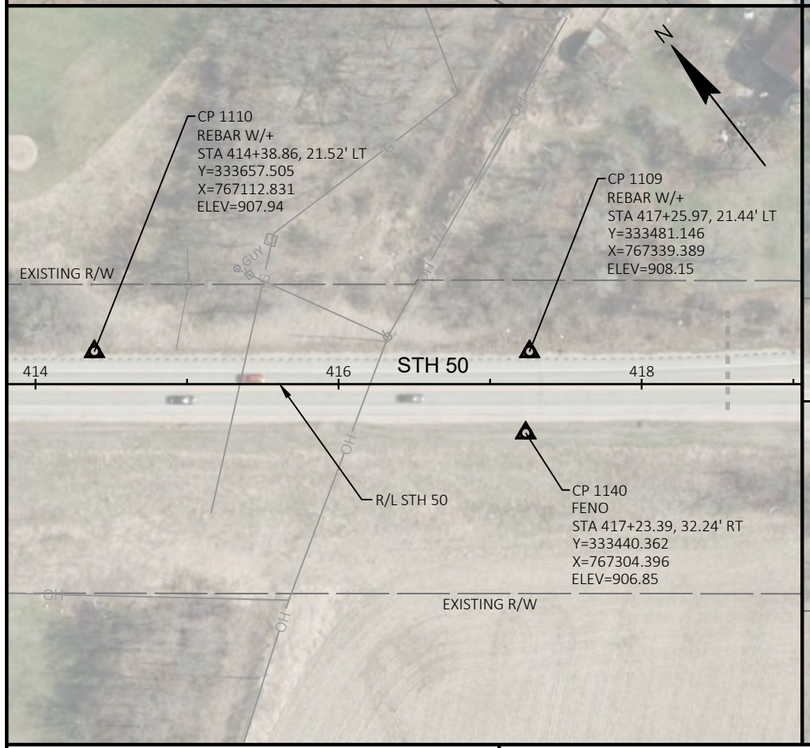
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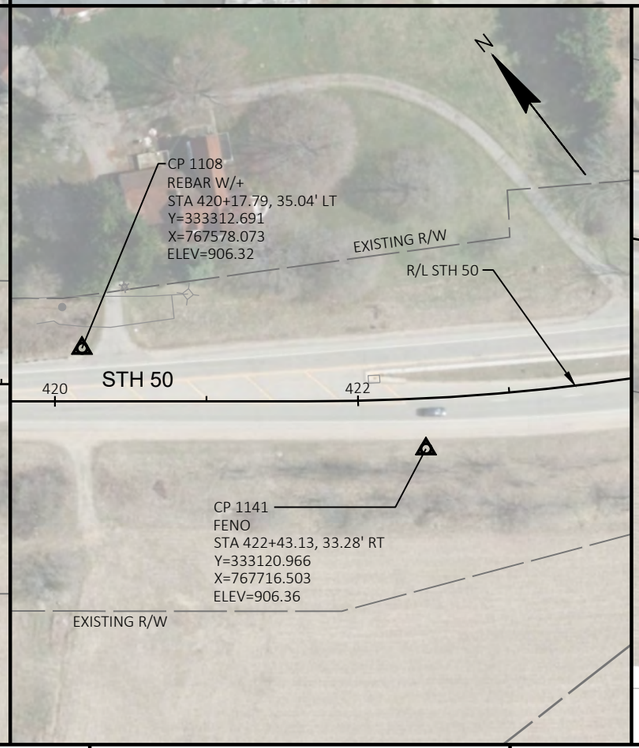


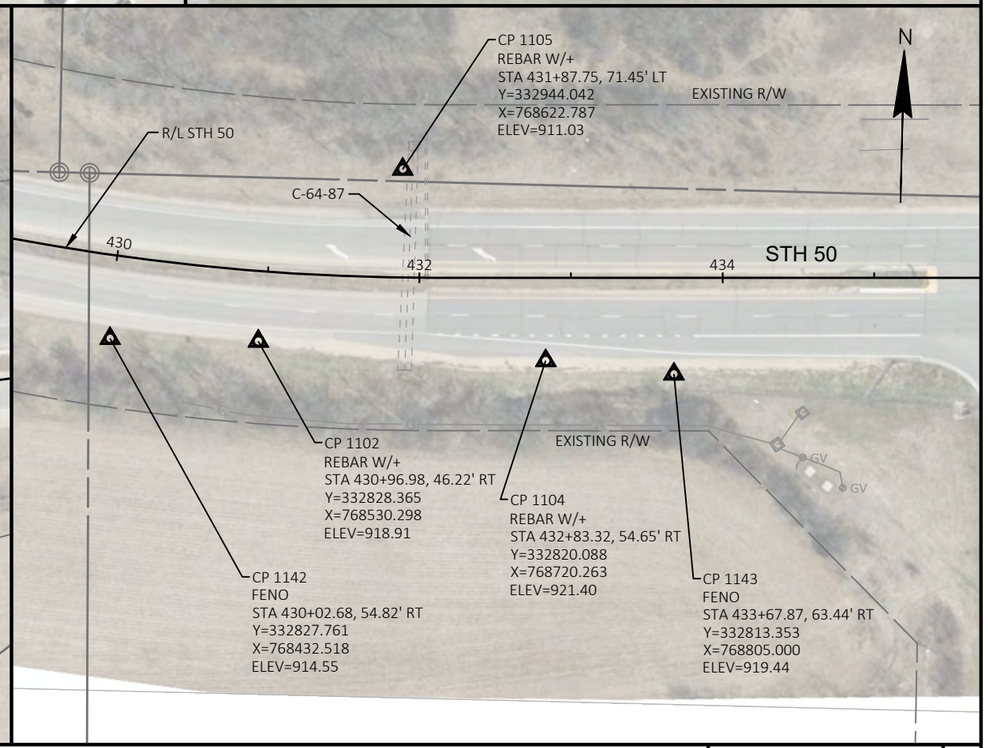




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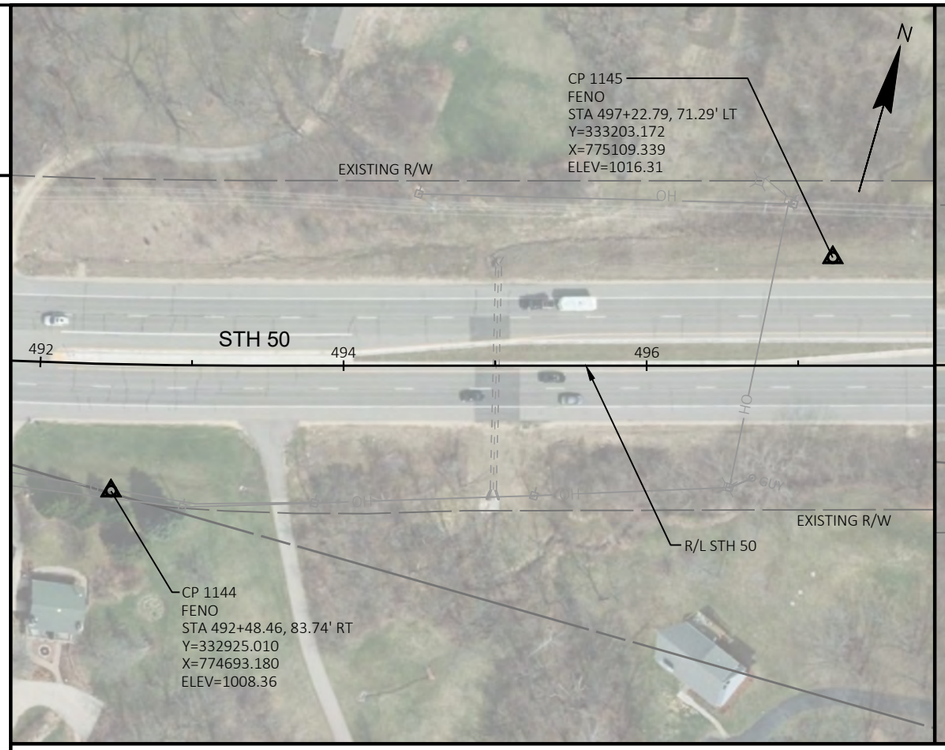


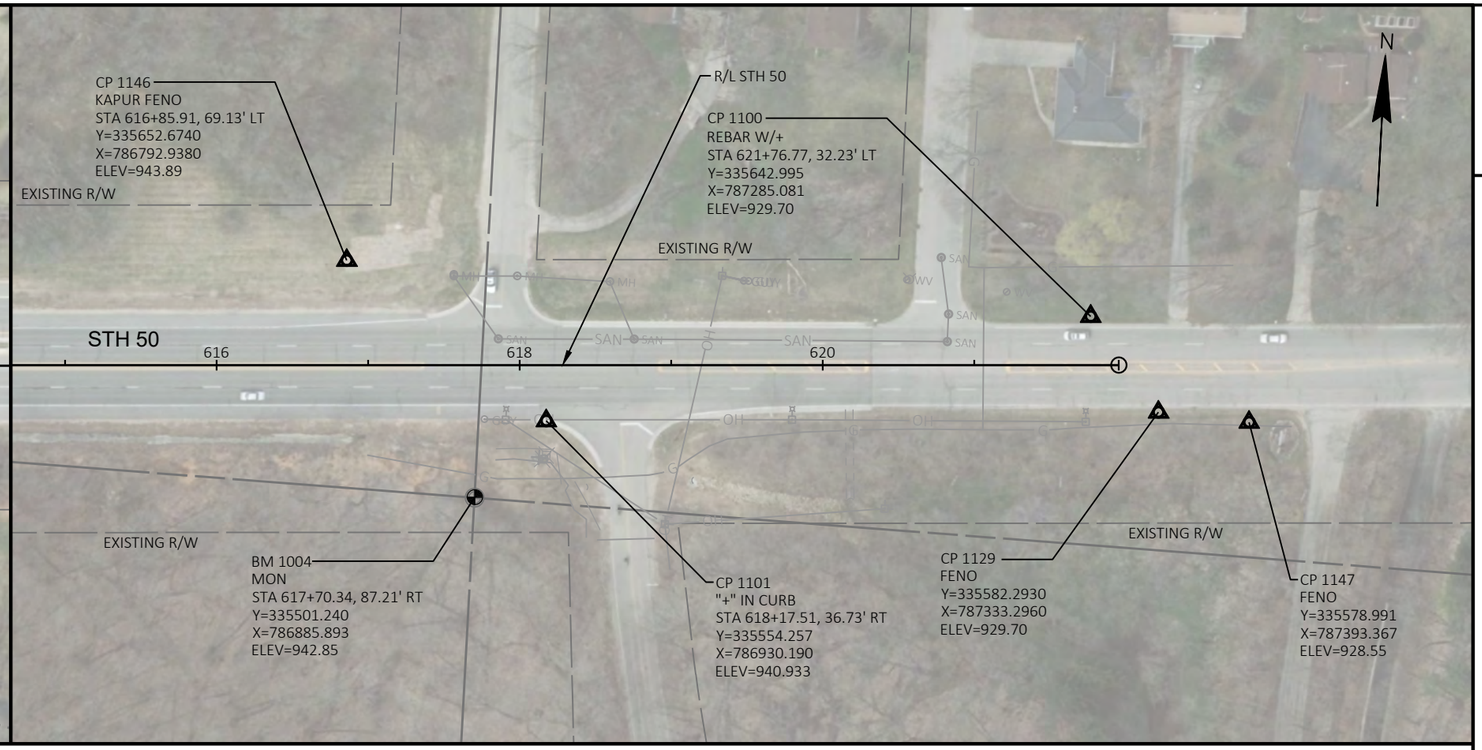




PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	SURVEY CONTROL	SHEET 117	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\027210-CP.DWG
LAYOUT NAME - 02-cp
PLOT DATE : 1/30/2022 9:55 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42





2

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	SURVEY CONTROL	SHEET 118	E

3170-12-70

Line	Item	Item Description	Unit	Total	Qty
0002	203.0220	Removing Structure (structure) 01. C-64-86	EACH	1.000	1.000
0004	203.0220	Removing Structure (structure) 02. C-64-87	EACH	1.000	1.000
0006	204.0109.S	Removing Concrete Surface Partial Depth	SF	2,550.000	2,550.000
0008	204.0110	Removing Asphaltic Surface	SY	7,510.000	7,510.000
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,400.000	1,400.000
0012	204.0125	Removing Asphaltic Surface Milling	TON	43,800.000	43,800.000
0014	204.0150	Removing Curb & Gutter	LF	640.000	640.000
0016	204.0165	Removing Guardrail	LF	1,856.000	1,856.000
0018	204.0190	Removing Surface Drains	EACH	16.000	16.000
0020	205.0100	Excavation Common	CY	280.000	280.000
0022	213.0100	Finishing Roadway (project) 01. 3170-12-70	EACH	1.000	1.000
0024	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,700.000	1,700.000
0026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	180.000	180.000
0028	305.0500	Shaping Shoulders	STA	560.000	560.000
0030	390.0303	Base Patching Concrete	SY	730.000	730.000
0032	416.0610	Drilled Tie Bars	EACH	550.000	550.000
0034	416.0620	Drilled Dowel Bars	EACH	1,470.000	1,470.000
0036	450.4000	HMA Cold Weather Paving	TON	3,000.000	3,000.000
0038	455.0605	Tack Coat	GAL	22,700.000	22,700.000
0040	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	2.000
0042	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0044	460.2005	Incentive Density PWL HMA Pavement	DOL	15,230.000	15,230.000
0046	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	7,400.000	7,400.000
0048	460.2010	Incentive Air Voids HMA Pavement	DOL	56,800.000	56,800.000
0050	460.6223	HMA Pavement 3 MT 58-28 S	TON	33,800.000	33,800.000
0052	460.6224	HMA Pavement 4 MT 58-28 S	TON	23,200.000	23,200.000
0054	465.0105	Asphaltic Surface	TON	1,750.000	1,750.000
0056	465.0110	Asphaltic Surface Patching	TON	110.000	110.000
0058	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	475.000	475.000
0060	465.0125	Asphaltic Surface Temporary	TON	105.000	105.000
0062	465.0315	Asphaltic Flumes	SY	190.000	190.000
0064	465.0400	Asphaltic Shoulder Rumble Strips	LF	23,450.000	23,450.000
0066	502.4205	Adhesive Anchors No. 5 Bar	EACH	35.000	35.000
0068	504.0100	Concrete Masonry Culverts	CY	3.000	3.000
0070	505.0400	Bar Steel Reinforcement HS Structures	LB	260.000	260.000
0072	509.1500	Concrete Surface Repair	SF	45.000	45.000
0074	509.9020.S	Epoxy Crack Sealing	LF	85.000	85.000
0076	516.0500	Rubberized Membrane Waterproofing	SY	3.000	3.000
0078	601.0576	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type J	LF	635.000	635.000
0080	606.0100	Riprap Light	CY	2.000	2.000
0082	606.0200	Riprap Medium	CY	45.000	45.000
0084	611.8110	Adjusting Manhole Covers	EACH	3.000	3.000
0086	611.8115	Adjusting Inlet Covers	EACH	10.000	10.000
0088	611.8120.S	Cover Plates Temporary	EACH	4.000	4.000
0090	614.0010	Barrier System Grading Shaping Finishing	EACH	2.000	2.000
0092	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	575.000	575.000
0094	614.2300	MGS Guardrail 3	LF	528.000	528.000
0096	614.2330	MGS Guardrail 3 K	LF	1,374.000	1,374.000
0098	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000

3170-12-70

Line	Item	Item Description	Unit	Total	Qty
0100	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3170-12-70	EACH	1.000	1.000
0102	619.1000	Mobilization	EACH	1.000	1.000
0104	620.0300	Concrete Median Sloped Nose	SF	20.000	20.000
0106	624.0100	Water	MGAL	20.000	20.000
0108	625.0100	Topsoil	SY	1,100.000	1,100.000
0110	627.0200	Mulching	SY	700.000	700.000
0112	628.1104	Erosion Bales	EACH	150.000	150.000
0114	628.1504	Silt Fence	LF	2,090.000	2,090.000
0116	628.1520	Silt Fence Maintenance	LF	2,090.000	2,090.000
0118	628.1905	Mobilizations Erosion Control	EACH	7.000	7.000
0120	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0122	628.2023	Erosion Mat Class II Type B	SY	835.000	835.000
0124	628.7010	Inlet Protection Type B	EACH	55.000	55.000
0126	628.7015	Inlet Protection Type C	EACH	12.000	12.000
0128	628.7504	Temporary Ditch Checks	LF	150.000	150.000
0130	628.7555	Culvert Pipe Checks	EACH	170.000	170.000
0132	628.7570	Rock Bags	EACH	40.000	40.000
0134	629.0210	Fertilizer Type B	CWT	0.700	0.700
0136	630.0120	Seeding Mixture No. 20	LB	30.000	30.000
0138	630.0200	Seeding Temporary	LB	100.000	100.000
0140	630.0500	Seed Water	MGAL	25.000	25.000
0142	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	45.000	45.000
0144	637.2210	Signs Type II Reflective H	SF	337.750	337.750
0146	637.2230	Signs Type II Reflective F	SF	143.500	143.500
0148	638.2102	Moving Signs Type II	EACH	10.000	10.000
0150	638.2602	Removing Signs Type II	EACH	19.000	19.000
0152	638.3000	Removing Small Sign Supports	EACH	17.000	17.000
0154	642.5401	Field Office Type D	EACH	1.000	1.000
0156	643.0300	Traffic Control Drums	DAY	13,600.000	13,600.000
0158	643.0420	Traffic Control Barricades Type III	DAY	10,800.000	10,800.000
0160	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	1,220.000	1,220.000
0162	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	1,095.000	1,095.000
0164	643.0705	Traffic Control Warning Lights Type A	DAY	21,600.000	21,600.000
0166	643.0715	Traffic Control Warning Lights Type C	DAY	2,700.000	2,700.000
0168	643.0800	Traffic Control Arrow Boards	DAY	10.000	10.000
0170	643.0900	Traffic Control Signs	DAY	17,300.000	17,300.000
0172	643.1070	Traffic Control Cones 42-Inch	DAY	6,200.000	6,200.000
0174	643.5000	Traffic Control	EACH	1.000	1.000
0176	645.0120	Geotextile Type HR	SY	190.000	190.000
0178	645.0130	Geotextile Type R	SY	7.000	7.000
0180	646.1020	Marking Line Epoxy 4-Inch	LF	93,260.000	93,260.000
0182	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	10,710.000	10,710.000
0184	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	9,745.000	9,745.000
0186	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	12,330.000	12,330.000
0188	646.4505	Marking Line Same Day Paint 4-Inch	LF	24,900.000	24,900.000
0190	646.5020	Marking Arrow Epoxy	EACH	66.000	66.000
0192	646.5120	Marking Word Epoxy	EACH	30.000	30.000
0194	646.6120	Marking Stop Line Epoxy 18-Inch	LF	455.000	455.000
0196	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	117,745.000	117,745.000

3170-12-70

Line	Item	Item Description	Unit	Total	Qty
0198	646.6468	Cold Weather Marking Epoxy 8-Inch	LF	12,330.000	12,330.000
0200	646.7120	Marking Diagonal Epoxy 12-Inch	LF	685.000	685.000
0202	646.8120	Marking Curb Epoxy	LF	360.000	360.000
0204	646.8220	Marking Island Nose Epoxy	EACH	36.000	36.000
0206	646.9000	Marking Removal Line 4-Inch	LF	35,405.000	35,405.000
0208	646.9100	Marking Removal Line 8-Inch	LF	1,100.000	1,100.000
0210	646.9200	Marking Removal Line Wide	LF	60.000	60.000
0212	646.9400	Marking Removal Plowable Raised Pavement Markers	EACH	62.000	62.000
0214	648.0100	Locating No-Passing Zones	MI	0.760	0.760
0216	649.0105	Temporary Marking Line Paint 4-Inch	LF	81,500.000	81,500.000
0218	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	83,300.000	83,300.000
0220	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	1,805.000	1,805.000
0222	649.0805	Temporary Marking Stop Line Paint 18-Inch	LF	255.000	255.000
0224	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	140.000	140.000
0226	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	635.000	635.000
0228	650.8000	Construction Staking Resurfacing Reference	LF	45,680.000	45,680.000
0230	650.9910	Construction Staking Supplemental Control (project) 01. 3170-12-70	LS	1.000	1.000
0232	690.0150	Sawing Asphalt	LF	35,785.000	35,785.000
0234	690.0250	Sawing Concrete	LF	3,330.000	3,330.000
0236	740.0440	Incentive IRI Ride	DOL	17,000.000	17,000.000
0238	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,650.000	1,650.000
0240	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	4,320.000	4,320.000
0242	SPV.0025	Special 01. Grout Fill	CF	102.000	102.000
0244	SPV.0060	Special 01. Section Corner Monuments	EACH	4.000	4.000
0246	SPV.0060	Special 02. Mobilizations Emergency Shoulder Pavement Repair	EACH	2.000	2.000
0248	SPV.0060	Special 03. Removing Vegetation C-64-86	EACH	1.000	1.000
0250	SPV.0060	Special 04. Removing Vegetation C-64-87	EACH	1.000	1.000
0252	SPV.0090	Special 01. Marking Chevron Epoxy 12-Inch	LF	49.000	49.000
0254	SPV.0165	Special 01. Geosynthetic Cementitious Composite Mat Lining	SF	594.000	594.000

3

REMOVING CONCRETE SURFACE PARTIAL DEPTH

CATEGORY	STATION	TO	STATION	LOCATION	204.0109.S SF	REMARKS
0010	589+18	-	591+49	LT/RT	2,550	1" DEPTH
				TOTAL 0010	2,550	

3

REMOVING ASPHALTIC ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0125 REMOVING ASPHALTIC SURFACE MILLING TON	204.0190 REMOVING SURFACE DRAINS EACH
0010	373+63	-	399+48	LT/RT	435	2,695	--
	399+48	-	435+82	LT/RT	69	4,556	1
	435+82	-	464+03	LT/RT	336	6,258	7
	464+03	-	482+67	LT/RT	74	4,297	3
	482+67	-	537+32	LT/RT	64	10,992	3
	537+32	-	620+32	LT/RT	421	15,002	2
				TOTALS 0010	1,400	43,800	16

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 LF
0010	393+69	-	397+74	RT	405
	405+55	-	420+06	LT	1,451
				TOTAL 0010	1,856

3

FINISHING ROADWAY (3170-12-70)

CATEGORY	STATION	TO	STATION	LOCATION	213.0100.01 EACH
0010	BEGIN	-	END	LT/RT	1
				TOTAL 0010	1

3

HMA ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0500 SHAPING SHOULDERS STA	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY	465.0400 ASPHALTIC SHOULDER RUMBLE STRIPS LF	* 690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF
0010	373+63	-	399+48	LT/RT	95	49	--	1,300	1,933	1,396	--	--	--	105	--
	399+48	-	435+82	LT/RT	200	84	--	2,330	3,585	2,481	--	20	--	60	--
	435+82	-	464+03	LT/RT	365	102	--	5,301	8,495	5,298	93	86	4,650	335	--
	464+03	-	482+67	LT/RT	195	56	--	3,113	4,348	2,917	120	31	3,450	265	30
	482+67	-	537+32	LT/RT	235	68	--	2,805	4,271	2,936	25	30	5,350	110	--
	537+32	-	620+32	LT/RT	610	200	--	7,850	11,169	8,173	236	23	10,000	440	--
	UNDISTRIBUTED			LT/RT	--	--	3,000	--	--	--	--	--	--	--	--
				TOTALS 0010	1,700	560	3,000	22,700	33,800	23,200	475	190	23,450	1,315	30

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PAVEMENT REPAIR ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	* 204.0110 REMOVING ASPHALTIC SURFACE SY	390.0303 BASE PATCHING CONCRETE SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	465.0105 ASPHALTIC SURFACE TON	* 465.0110 ASPHALTIC SURFACE PATCHING TON	* 690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF	SPV.0060.02 MOBILIZATIONS EMERGENCY SHOULDER PAVEMENT REPAIR EACH	REMARKS
0010	BEGIN	-	END	LT/RT	7,500	730	550	1,470	1,750	100	33,760	3,300	2	UNDISTRIBUTED
				TOTALS 0010	7,500	730	550	1,470	1,750	100	33,760	3,300	2	

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PWL MIXTURE USE TABLE

ROADWAY	LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO BE USED FOR:	
								MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
STH 50	12-FOOT EB DRIVING LANE(S)	373+63 - 620+32	UPPER LAYER	3 MT 58-28 S	4 MT 58-28 S	7,614	2.00"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2005
STH 50	12-FOOT EB DRIVING LANES(S)	373+63 - 620+32	LOWER LAYER	MILLED EXISTING HMA SURFACE	3 MT 58-28 S	15,222	3.50"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2000
STH 50	12-FOOT WB DRIVING LANE(S)	373+63 - 620+32	UPPER LAYER	3 MT 58-28 S	4 MT 58-28 S	7,614	2.00"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2005
STH 50	12-FOOT WB DRIVING LANES(S)	373+63 - 620+32	LOWER LAYER	MILLED EXISTING HMA SURFACE	3 MT 58-28 S	15,222	3.50"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2000
STH 50	5-FOOT OUTSIDE SHOULDERS	373+63 - 431+80	SINGLE LAYER	ASPHALTIC PAVEMENT, BASE COURSE	3 MT 58-28 S	800	2.00"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2000
STH 50	8-FOOT OUTSIDE SHOULDERS	431+80 - 620+32	SINGLE LAYER	ASPHALTIC PAVEMENT, BASE COURSE	3 MT 58-28 S	2,909	2.00"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2000
STH 50	10-FOOT OUTSIDE SHOULDER (LT ONLY)	598+40 - 610+65	SINGLE LAYER	ASPHALTIC PAVEMENT, BASE COURSE	3 MT 58-28 S	172	2.00"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2000
STH 50	3-FOOT INSIDE RURAL SHOULDERS	431+80 - 620+32	SINGLE LAYER	ASPHALTIC PAVEMENT, BASE COURSE	3 MT 58-28 S	340	2.00"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2000
STH 50	2-FOOT C&G OVERLAY	431+80 - 620+32	SINGLE LAYER	CONCRETE CURB & GUTTER	3 MT 58-28 S	413	2.00"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
STH 50	TURN LANES AND MEDIAN OPENINGS	VARIES	UPPER LAYER	3 MT 58-28 S	4 MT 58-28 S	3,194	2.00"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
STH 50	TURN LANES AND MEDIAN OPENINGS	VARIES	LOWER LAYER	MILLED EXISTING HMA SURFACE	3 MT 58-28 S	3,194	3.50"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE

HMA PERCENT WITHIN LIMITS ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH
0010	BEGIN	-	END	LT/RT	2	2
				TOTAL 0010	2	2

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TEMPORARY WIDENING ITEMS

CATEGORY	STAGE	STATION	TO	STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF	205.0100 EXCAVATION COMMON CY	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	601.0576 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE J LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	* 690.0150 SAWING ASPHALT LF	REMARKS
0010	1	422+04	-	428+21	LT	640	115	180	105	--	--	--	
	4	422+04	-	428+21	LT	--	165	--	--	635	20	650	TYPE 2 NOSE
					TOTALS 0010	640	280	180	105	635	20	650	

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ADJUSTING STORM SEWER STRCUTRE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	* 204.0110 REMOVING ASPHALTIC SURFACE SY	* 465.0110 ASPHALTIC SURFACE PATCHING TON	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	* 690.0150 SAWING ASPHALT LF
0010	373+63	-	399+48	LT/RT	--	--	--	1	--	--
	399+48	-	435+82	LT/RT	--	--	--	2	1	--
	435+82	-	464+03	LT/RT	--	--	--	3	--	--
	464+03	-	482+67	LT/RT	--	--	--	1	--	--
	482+67	-	537+32	LT/RT	--	--	--	--	--	--
	537+32	-	620+32	LT/RT	10	10	3	3	3	60
				TOTALS 0010	10	10	3	10	4	60

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

BEAM GUARD ITEMS

					614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING									614.0397 GUARDRAIL MOW STRIP EMULSIFIED ASPHALT	614.2300 MGS GUARDRAIL 3	614.2330 MGS GUARDRAIL 3 K	614.2610 MGS GUARDRAIL TERMINAL EAT
CATEGORY	STATION	TO	STATION	LOCATION	EXCAVATION COMMON CY**	BORROW CY**	TOPSOIL SY**	MULCHING SY**	EROSION MAT CLASS II TYPE B SY**	FERTILIZER TYPE B CWT**	SEEDING MIXTURE NO. 20 LB**	SEED WATERING MGAL**	EACH	SY	LF	LF	EACH
0010	391+95	-	397+70	RT	26	--	340	--	340	0.21	9	9	1	120	105	364	2
	404+70	-	420+09	LT	70	34	1,292	--	1,292	0.81	35	30	1	455	423	1,010	2
				TOTALS 0010	96	34	1,632	0	1,632	1.03	44	39	2	575	528	1,374	4

** FOR INFORMATION PURPOSES ONLY

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MAINTENANCE AND REPAIR OF HAUL ROADS (3170-12-70)

CATEGORY	STATION	TO	STATION	LOCATION	618.0100.01 EACH
0010	BEGIN	-	END	LT/RT	1
				TOTAL 0010	1

MOBILIZATION

CATEGORY	STATION	TO	STATION	LOCATION	619.1000 EACH
0010	BEGIN	-	END	LT/RT	1
				TOTAL 0010	1

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EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2023 EROSION MAT CLASS II TYPE B SY	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0120 GEOTEXTILE TYPE HR SY
0010	272+00	-	399+48	LT/RT	--	--	435	435	--	7	--	--	31	--	--
0010	399+48	-	435+82	LT/RT	2	--	1,465	1,465	724	5	1	30	25	20	9
0010	435+82	-	464+03	LT/RT	14	--	--	--	--	4	2	--	15	--	63
0010	464+03	-	482+67	LT/RT	6	--	--	--	--	2	1	--	7	--	27
0010	482+67	-	537+32	LT/RT	10	--	--	--	--	10	1	--	37	--	39
0010	537+32	-	620+32	LT/RT	4	--	--	--	--	24	4	--	32	--	18
0010	UNDISTRIBUTED				9	150	190	190	112	3	3	120	23	20	34
				TOTALS 0010	45	150	2,090	2,090	835	55	12	150	170	40	190

WATER

CATEGORY	STATION	TO	STATION	LOCATION	624.0100 MGAL
0010	BEGIN	-	END	LT/RT	20
				TOTAL 0010	20

RESTORATION ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0010	399+48	-	435+82	LT/RT	737	13	0.46	20	--	17
	435+82	-	464+03	LT/RT	93	93	0.06	3	--	2
	464+03	-	482+67	LT/RT	40	40	0.03	1	--	1
	482+67	-	537+32	LT/RT	40	40	0.03	1	--	1
	537+32	-	620+32	LT/RT	27	27	0.02	1	--	1
	UNDISTRIBUTED			LT/RT	163	487	0.11	5	100	4
				TOTALS 0010	1,100	700	0.70	30	100	25

MOBILIZATION FOR EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	BEGIIN	-	END	LT/RT	7	4
				TOTALS 0010	7	4

FIELD OFFICE TYPE D

CATEGORY	STATION	TO	STATION	LOCATION	642.5401 EACH
0010	BEGIN	-	END	LT/RT	1
				TOTAL 0010	1

FILE NAME : X:\BM1-3800 STH 50 Delavan - Lake Geneva\5_Design\03_Roads\31701200\SheetsPlan\030201-mq.pptx PLOT DATE : March 5, 2022 PLOT BY : BLOOM COMPANIES PLOT NAME : PLOT SCALE : 1:1

TYPE II PERMANENT SIGNING 3170-12-70

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]	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]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	W5-54(2S)		18	X	18		2.250						MOUNT UNDER EXISTING R4-7 KEEP RIGHT SIGN
2	R3-20L(2S)		24	X	36	6.000					1		
3	W1-2L(2S)		30	X	30		6.250		1	1	1		
3A	W13-1(2S)	45 MPH	18	X	18		2.250					3	
4	W1-8(2S)		18	X	24		3.000				1		4 FOOT MOUNTING HEIGHT
5	W1-8(2S)		18	X	24		3.000					4	MOUNT ON BACK . CLIPS TO ALIGHN IT INCIDENTAL
6	W1-8(2S)		18	X	24		3.000		1	1	1		4 FOOT MOUNTING HEIGHT
7	W1-8(2S)		18	X	24		3.000					6	MOUNT ON BACK . CLIPS TO ALIGHN IT INCIDENTAL
8	W1-8(2S)		18	X	24		3.000		1	1	1		4 FOOT MOUNTING HEIGHT
9	W1-8(2S)		18	X	24		3.000					8	MOUNT ON BACK . CLIPS TO ALIGHN IT INCIDENTAL
10	W1-8(2S)		18	X	24		3.000		1	1	1		4 FOOT MOUNTING HEIGHT
11	W1-8(2S)		18	X	24		3.000					10	MOUNT ON BACK . CLIPS TO ALIGHN IT INCIDENTAL
12	W1-8(2S)		18	X	24		3.000		1	1	1		4 FOOT MOUNTING HEIGHT
13	W1-8(2S)		18	X	24		3.000					12	MOUNT ON BACK . CLIPS TO ALIGHN IT INCIDENTAL
14	W1-8(2S)		18	X	24		3.000				1		4 FOOT MOUNTING HEIGHT
15	W1-8(2S)		18	X	24		3.000					14	MOUNT ON BACK . CLIPS TO ALIGHN IT INCIDENTAL
16	W4-2R(2S)		36	X	36		9.000				1		
17	R2-1(2S)	SPEED LIMIT 45 MPH	24	X	30	5.000					1		
18	W1-2R(2S)		30	X	30		6.250		1	1	1		
18A	W13-1(2S)	45 MPH	18	X	18		2.250					18	
19	W6-3(2S)		36	X	36		9.000		1	1	1		
20	W5-54(2S)		18	X	18		2.250						MOUNT UNDER EXISTING R4-7 KEEP RIGHT SIGN
21	W1-8(2S)		48	X	24		8.000				1		
22	R2-1(3)	SPEED LIMIT 45 MPH	36	X	48	12.000					1		
23	R2-1(3)	SPEED LIMIT 45 MPH	36	X	48	12.000			1	1	1		
24	W1-6(2S)		48	X	24		8.000				1		
25	R3-20L(3)		36	X	54	13.500					1		
26	R3-20L(3)		36	X	54	13.500					1		
27	R3-20L(3)		36	X	54	13.500					1		
28	R3-20L(3)		36	X	54	13.500					1		
29	R3-20L(3)		36	X	54	13.500					1		
30	R5-1(3)		36	X	36	9.000					1		

TYPE II PERMANENT SIGNING 3170-12-70

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]	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]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
31	R3-20L(3)		36	X	54	13.500					1		
32	R3-20L(3)		36	X	54	13.500					1		
33	R3-20L(3)		36	X	54	13.500					1		
34	R3-20L(3)		36	X	54	13.500					1		
35	R3-20L(3)		36	X	54	13.500					1		
36	R3-20L(3)		36	X	54	13.500					1		
37	R3-20L(3)		36	X	54	13.500					1		
38	R3-20L(3)		36	X	54	13.500					1		
39	R3-20L(3)		36	X	54	13.500					1		
40	R3-20L(3)		36	X	54	13.500					1		
41	R3-20L(3)		36	X	54	13.500					1		
42	W6-2								1				THERE IS NO MEDIAN SO SIGN NOT CORRECT
43	M1-6	STH 50							1				REMOVE FROM UNDER THE POPULATION SIGN THERE IS A J4-1 CONFIRMATION STH 50 SIGN AFTER THE INTERSECTION
44	R4-7(3)		36	X	48	12.000			1	1	1		SHEET 5
45	D9-2(3)		36	X	36	9.000			1	1	1		SHEET 5
45A	MB6-1		30	X	30	6.250						45	SHEET 5
46	W4-2L(3)		36	X	36		9.000		1	1	1		SHEET 5
47	R4-7(3)		36	X	48	12.000			1	1	1		SHEET 5
48	R3-20L(3)		36	X	54	13.500					1		SHEET 5
49	W9-1L(3)		36	X	36		9.000				1		SHEET 5
50	W9-1L(3)		36	X	36		9.000				1		SHEET 5
		UNDISTRIBUTED				25.000	25.000	10	5	5	5		INCLUDES MOVING NO PASSING PENNANTS IF NECESSARY
		TOTALS				337.750	143.500	10	19	17	45		

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TRAFFIC CONTROL ITEMS

CATEGORY	STAGE	DURATION	STATION	TO	STATION	LOCATION	643.0300 TRAFFIC CONTROL DRUMS EACH**	643.0300 DAY	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH**	643.0410 DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH**	643.0705 DAY	643.0715 TYPE C EACH**	643.0715 DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH**	643.0800 DAY	643.0900 TRAFFIC CONTROL SIGNS EACH**	643.0900 DAY	643.1070 TRAFFIC CONTROL CONES 42-INCH EACH**	643.1070 DAY
0010	1	40	418+00	-	435+82	LT/RT	19	760	7	280	60	60	14	560	11	440	--	--	9	360	--	--
			435+82	-	464+03	LT/RT	17	680	19	760	53	53	38	1,520	8	320	--	--	34	1,360	--	--
			464+03	-	482+67	LT/RT	13	520	16	640	33	33	32	1,280	--	--	--	--	30	1,200	--	--
			482+67	-	537+32	LT/RT	41	1,640	36	1,440	106	106	72	2,880	--	--	--	--	52	2,080	--	--
			537+32	-	620+32	LT/RT	68	2,720	36	1,440	185	185	72	2,880	20	800	--	--	65	2,600	70	2,800
						SUBTOTALS STAGE 1		6,320		4,560	437	437		9,120		1,560		0		7,600		2,800
	2	40	418+13	-	435+82	LT/RT	27	1,080	7	280	60	60	14	560	17	680	--	--	12	480	--	--
			435+82	-	464+03	LT/RT	21	840	22	880	52	52	44	1,760	--	--	--	--	31	1,240	--	--
			464+03	-	482+67	LT/RT	6	240	9	360	35	35	18	720	--	--	--	--	21	840	--	--
			482+67	-	537+32	LT/RT	53	2,120	40	1,600	107	107	80	3,200	--	--	--	--	50	2,000	--	--
			537+32	-	620+32	LT/RT	41	1,640	42	1,680	180	180	84	3,360	5	200	--	--	61	2,440	70	2,800
						SUBTOTALS STAGE 2		5,920		4,800	434	434		9,600		880		0		7,000		2,800
	3	23	373+63	-	435+82	LT/RT	--	--	--	--	--	--	--	--	--	--	--	--	17	391	--	--
						SUBTOTALS STAGE 3		0		0	0	0		0		0		0		391		0
	4	4	422+00	-	431+80	LT/RT	20	79	--	--	--	--	--	--	--	--	1	4	8	32	--	--
						SUBTOTALS STAGE 4		79		0	0	0		0		0		4		32		0
						UNDISTRIBUTED		1,281		1,440	349	224		2,880		260		6		2,277		600
						TOTALS 0010		13,600		10,800	1,220	1,095		21,600		2,700		10		17,300		6,200

** FOR INFORMATION PURPOSES ONLY

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TRAFFIC CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	643.5000 EACH
0010	BEGIN	-	END	LT/RT	1
				TOTAL 0010	1

PAVEMENT MARKING REMOVAL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF	646.9400 MARKING REMOVAL PLOWABLE RAISED PAVEMENT MARKERS EACH	REMARKS
0010	399+48	-	435+82	LT/RT	3,173	100	--	--	STAGE 1
	435+82	-	464+03	LT/RT	4,232	200	--	--	STAGE 1
	464+03	-	482+67	LT/RT	2,796	200	--	--	STAGE 1
	482+67	-	537+32	LT/RT	8,298	200	--	--	STAGE 1
	537+32	-	620+32	LT/RT	16,907	400	60	62	STAGE 1
				TOTALS 0010	35,405	1,100	60	62	

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PAVEMENT MARKING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH DASHED WHITE 12.5' LINE 37.5'SKIP LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH WHITE LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH DASHED WHITE 3' LINE 9'SKIP LF	646.5020 MARKING ARROW EPOXY TYPE 2 EACH	646.5020 MARKING ARROW EPOXY TYPE 5 EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.6464 COLD WEATHER MARKING 4-INCH LF	646.6468 COLD WEATHER MARKING 8-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.8120 MARKING CURB EPOXY 12-INCH LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	648.0100 LOCATING NO-PASSING ZONES MI	SPV.0090.01 MARKING CHEVRON EPOXY 12-INCH LF
0010	373+63	-	399+48	LT/RT	--	5,888	5,165	50	980	--	4	--	2	--	--	--	91	20	2	0.37	49
	399+48	-	435+82	LT/RT	1,596	7,643	5,545	466	348	176	4	2	1	40	--	--	188	20	2	0.39	--
	435+82	-	464+03	LT/RT	5,093	5,579	--	1,399	3,323	144	16	--	8	99	--	--	80	60	6	--	--
	464+03	-	482+67	LT/RT	3,328	3,771	--	932	1,682	--	14	--	7	88	--	--	--	40	4	--	--
	482+67	-	537+32	LT/RT	10,456	10,483	--	2,739	3,572	--	16	--	8	130	--	--	--	120	12	--	--
	537+32	-	620+32	LT/RT	15,974	23,449	--	4,160	2,105	--	10	--	4	98	--	--	326	100	10	--	--
	UNDISTRIBUTED			LT/RT	--	--	--	--	--	--	--	--	--	--	117,745	12,330	--	--	--	--	--
				TOTALS 0010	93,260		10,710	9,745	12,330		66		30	455	117,745	12,330	685	360	36	0.76	49

TEMPORARY PAVEMENT MARKING ITEMS

CATEGORY	STAGE	STATION	TO	STATION	LOCATION	646.4505 MARKING LINE SAME DAY PAINT 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH LF	649.0805 TEMPORARY MARKING STOP LINE PAINT 18-INCH LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF
0010	1	418+00	-	435+82	LT/RT	--	3,564	3,570	--	--	--	30	--
		435+82	-	464+03	LT/RT	--	5,672	5,298	--	--	--	115	--
		464+03	-	482+67	LT/RT	--	3,728	3,322	--	--	--	25	--
		482+67	-	537+32	LT/RT	--	10,930	10,531	--	--	--	20	--
		537+32	-	620+32	LT/RT	--	17,675	17,210	1,100	1,100	--	65	--
					SUBTOTALS STAGE 1	0	41,569	39,931	1,100	1,100	0	255	0
	2	418+13	-	435+82	LT/RT	--	--	--	3,538	3,490	--	--	30
		435+82	-	464+03	LT/RT	--	--	--	5,682	5,320	--	--	35
		464+03	-	482+67	LT/RT	--	--	--	3,728	3,542	600	--	25
		482+67	-	537+32	LT/RT	--	--	--	10,930	10,605	655	--	20
		537+32	-	620+32	LT/RT	--	--	--	17,505	16,760	550	--	30
					SUBTOTALS STAGE 2	0	0	0	41,383	39,717	1,805	0	140
	3	373+63	-	420+00	LT/RT	24,900	--	--	--	--	--	--	--
					SUBTOTALS STAGE 3	24,900	0	0	0	0	0	0	0
					TOTALS 0010	24,900	81,500		83,300		1,805	255	140

3

3

CONTRUCTION STAKING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9910.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (3170-12-70) LS
0010	BEGIN	-	END	LT/RT	635	45,680	1
				TOTAL 0010	635	45,680	1

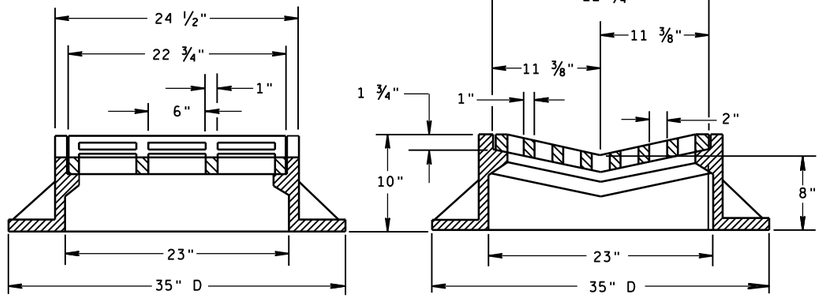
SECTION CORNER MONUMENTS

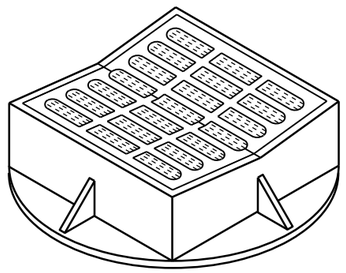
CATEGORY	STATION	LOCATION	SPV.0060.01 EACH
0010	456+13.52	6.91' LT	1
	456+30.58	6.57' LT	1
	482+60.72	39.24' LT	1
	482+73.52	39.29' LT	1
		TOTAL 0010	4

Standard Detail Drawing List

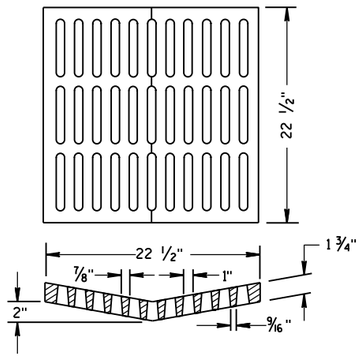
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
11B02-02	CONCRETE MEDIAN NOSE
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
13C19-03	HMA LONGITUDINAL JOINTS
14B28-04A	GUARDRAIL MOW STRIP
14B28-04B	GUARDRAIL MOW STRIP
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-08	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-05A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-05B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-05C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-06B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-06C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-10	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15C35-04B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-04C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D06-05	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D11-08	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-03A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-03C	TRAFFIC CONTROL, PARTIAL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D50-02A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-02B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

6



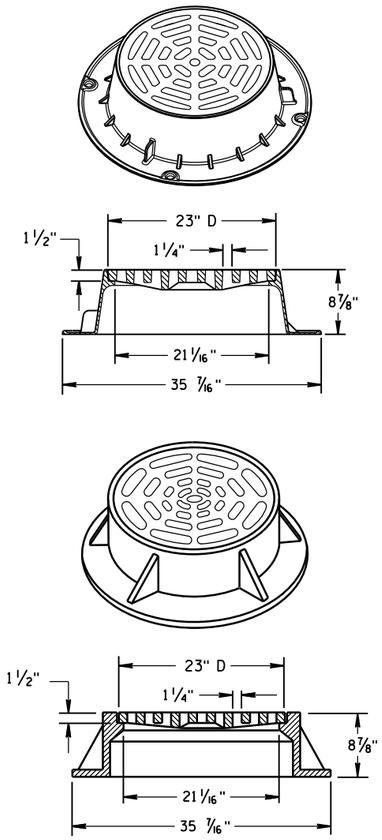


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

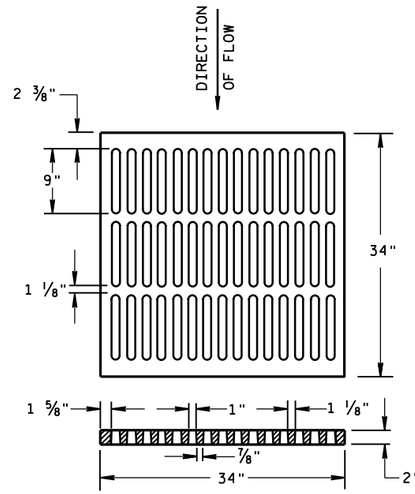
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

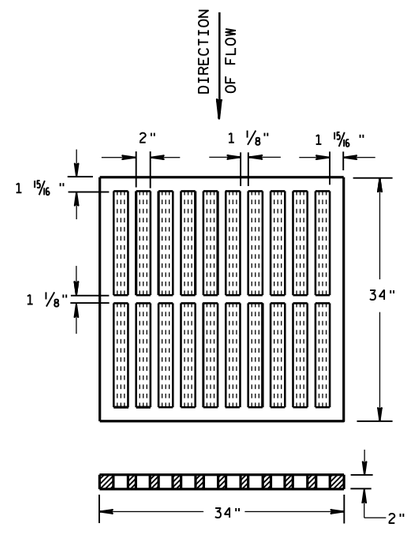
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



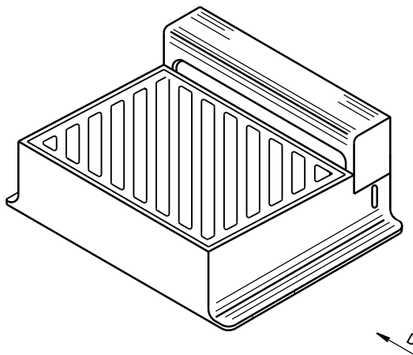
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



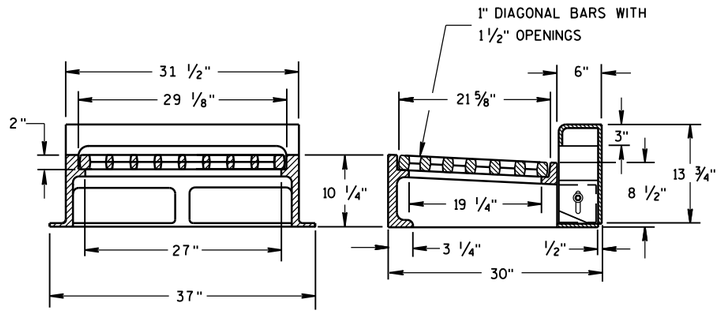
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

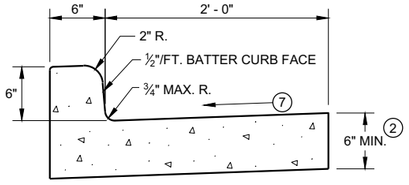
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

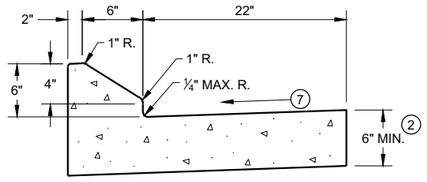
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

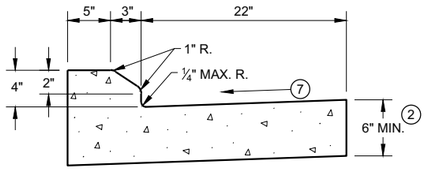
S.D.D. 8 A 5-19b



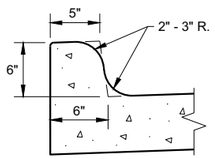
TYPES A (1) & D



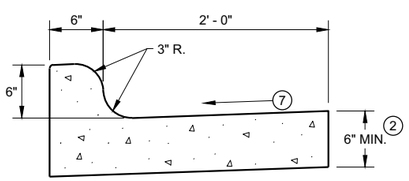
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

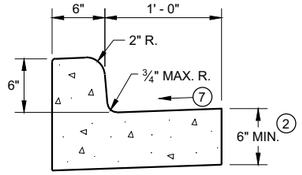


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



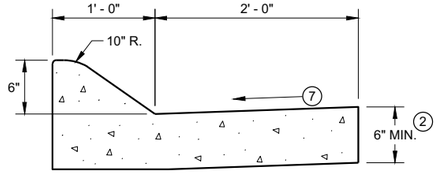
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"



TYPES A (1) & D

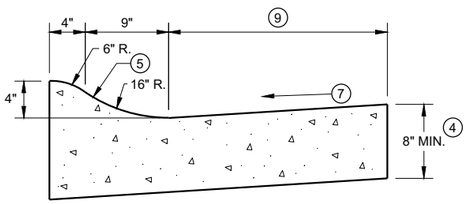
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

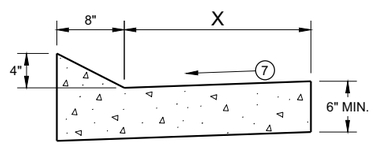
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

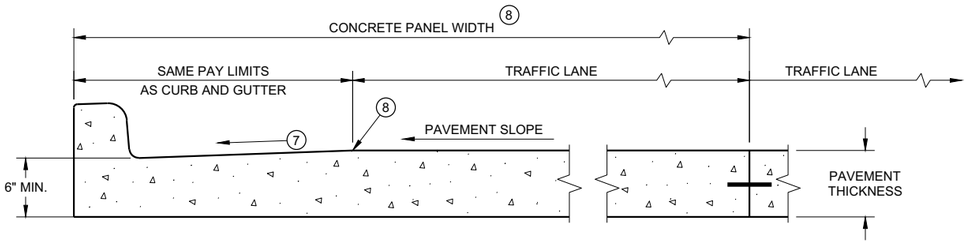


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

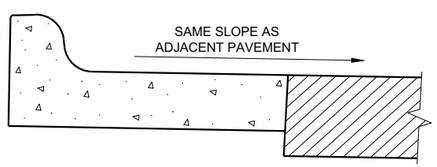
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

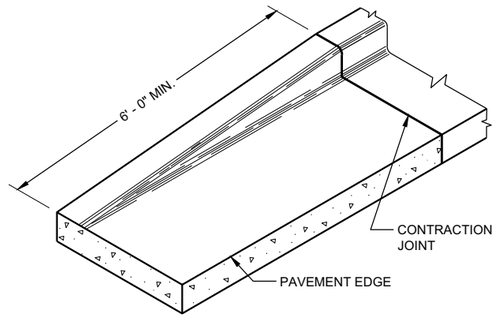
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

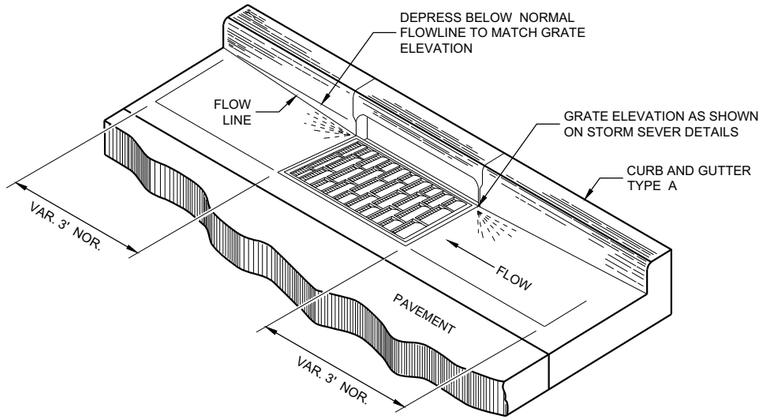
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a
SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

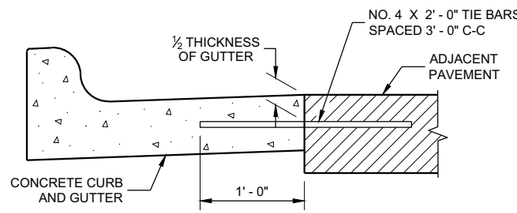
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

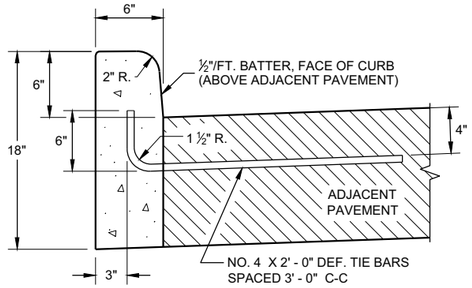
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

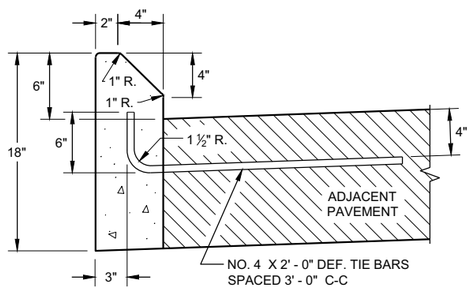
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

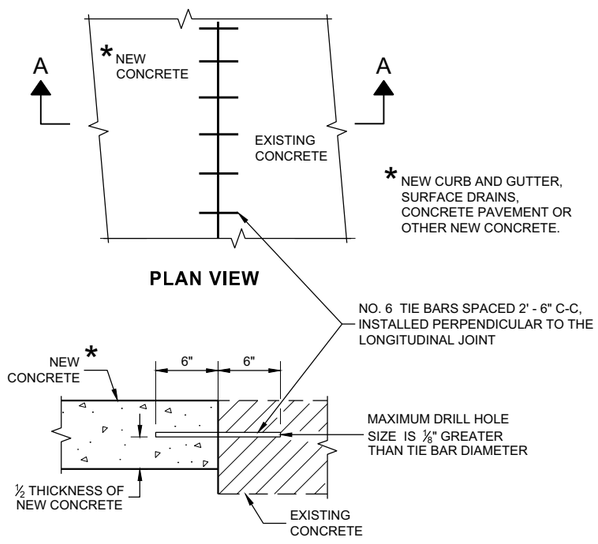


TYPES A (1) & D



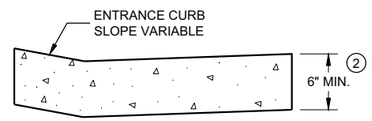
TYPES G (1) & J

CONCRETE CURB



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

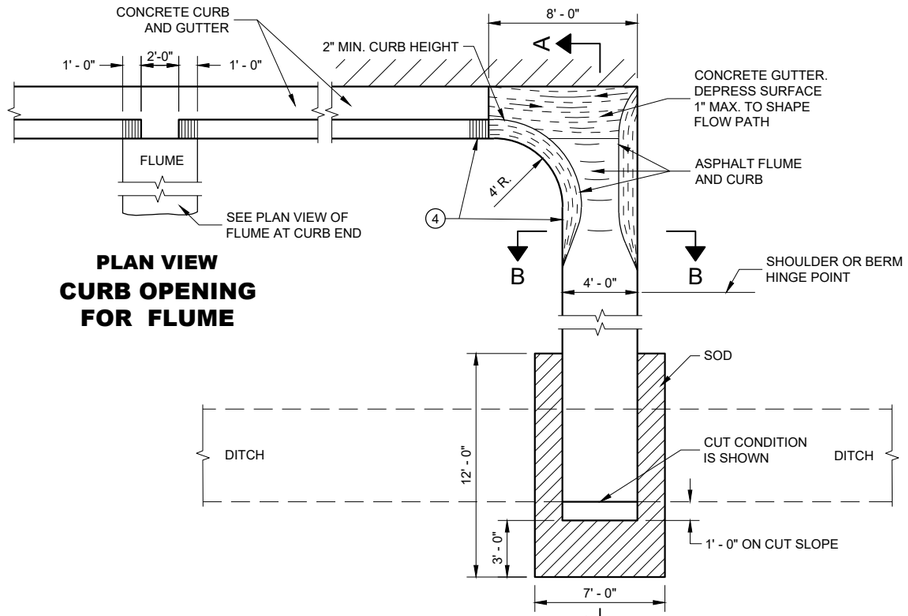
APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD08D01 - 22b

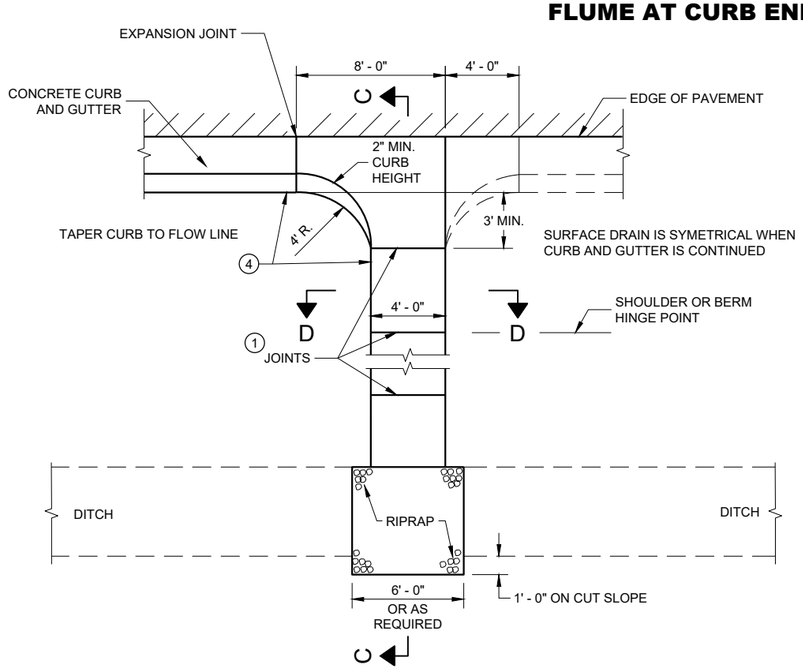
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



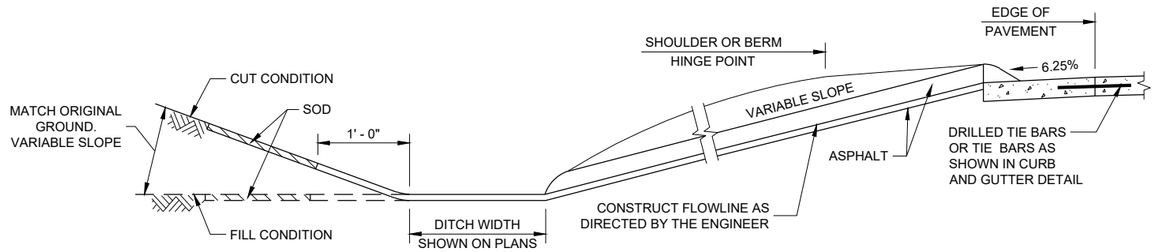
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

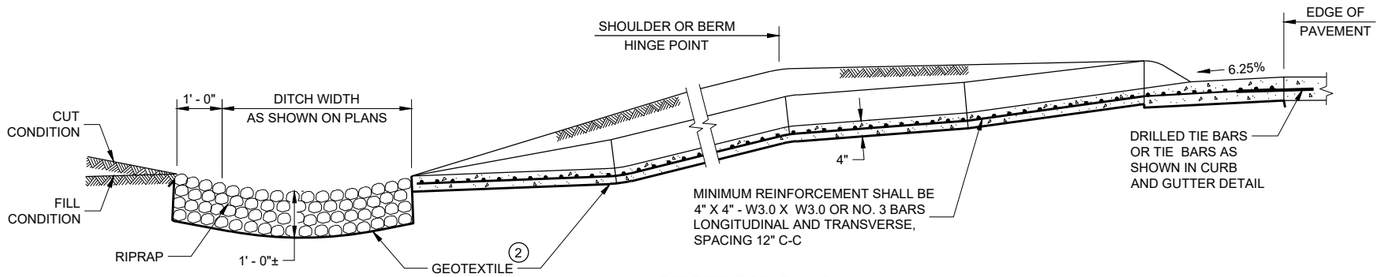
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

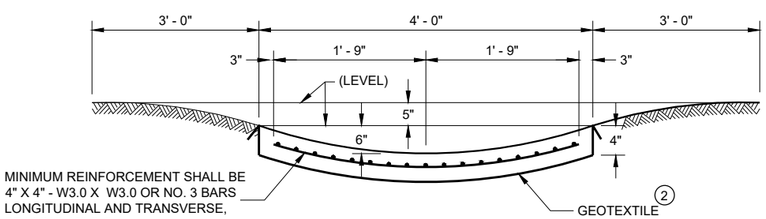


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

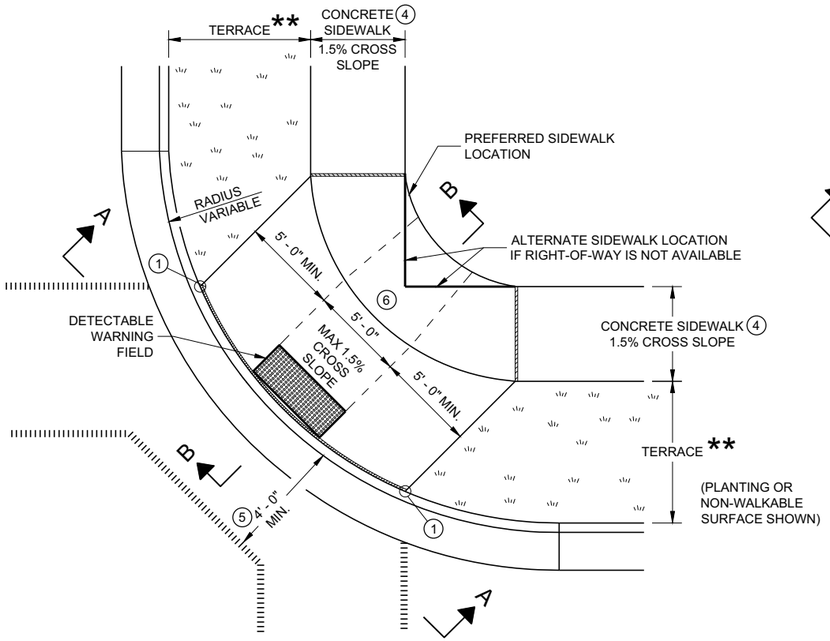
FHWA

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SDD 08D04 - 06

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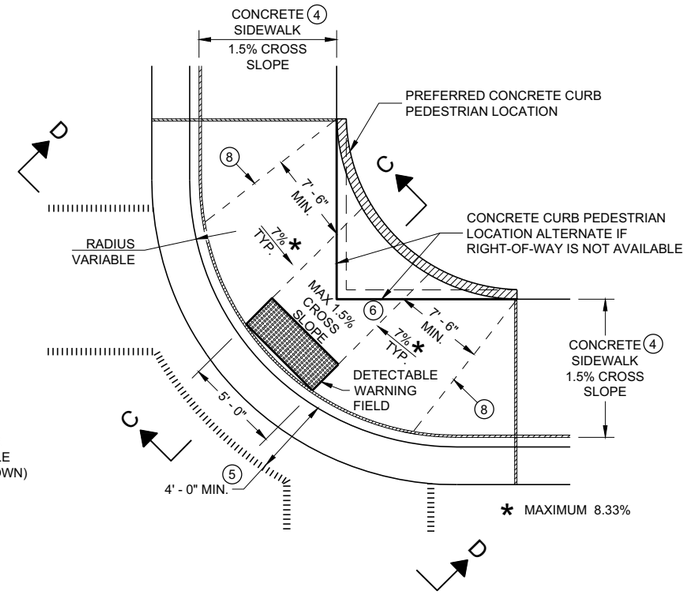
SDD 08D04 - 06



PLAN VIEW

CURB RAMP TYPE 1

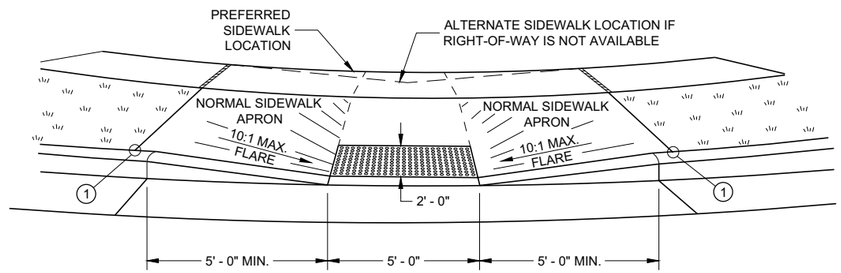
(CENTER OF CORNER RADIUS)



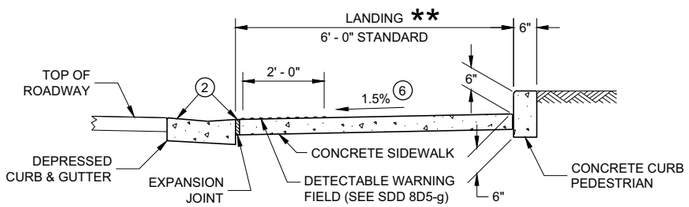
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

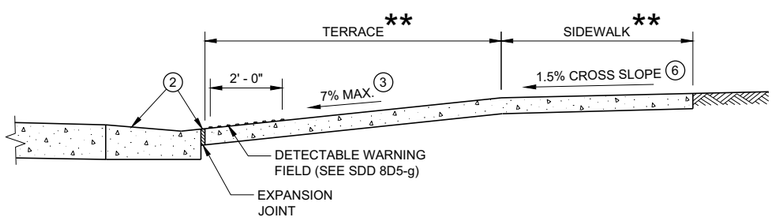


VIEW A - A FOR TYPE 1

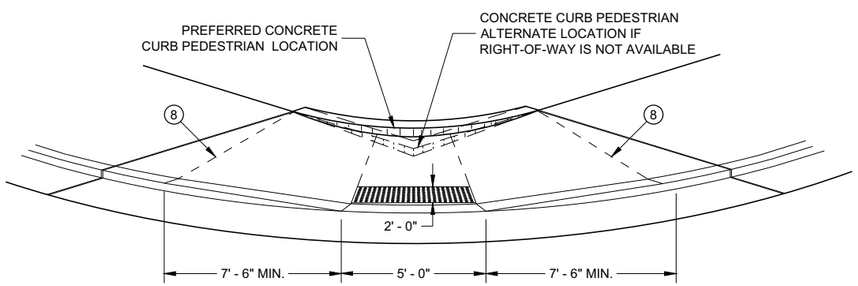


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

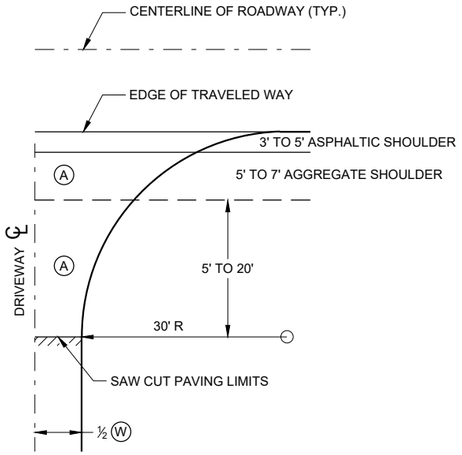
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20a

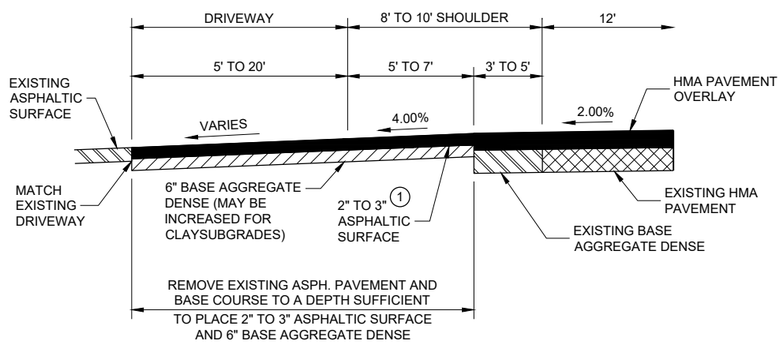
GENERAL NOTES

(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PLAN VIEW

HALF SECTION



PROFILE VIEW

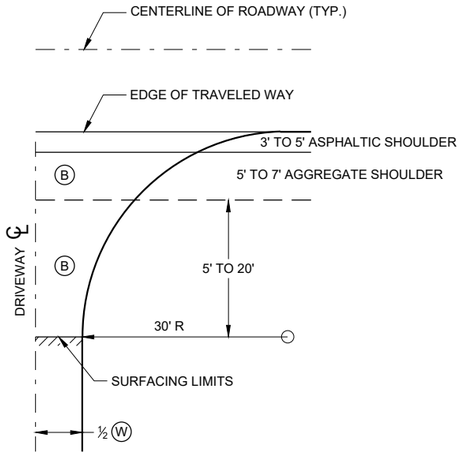
RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS

(A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)

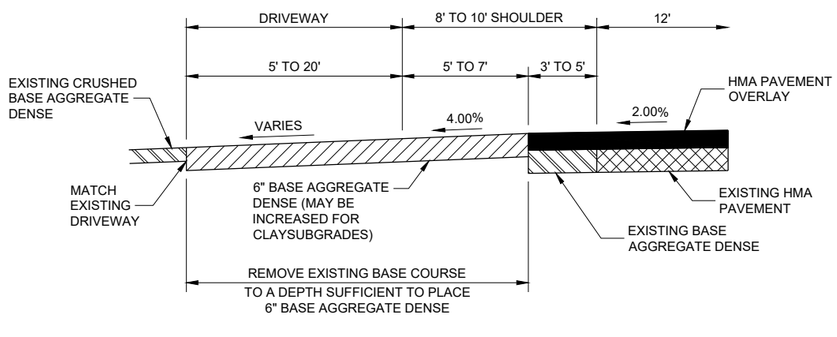
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

(W) : DRIVEWAY WIDTH 16' MIN. - 24' MAX.



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE

RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

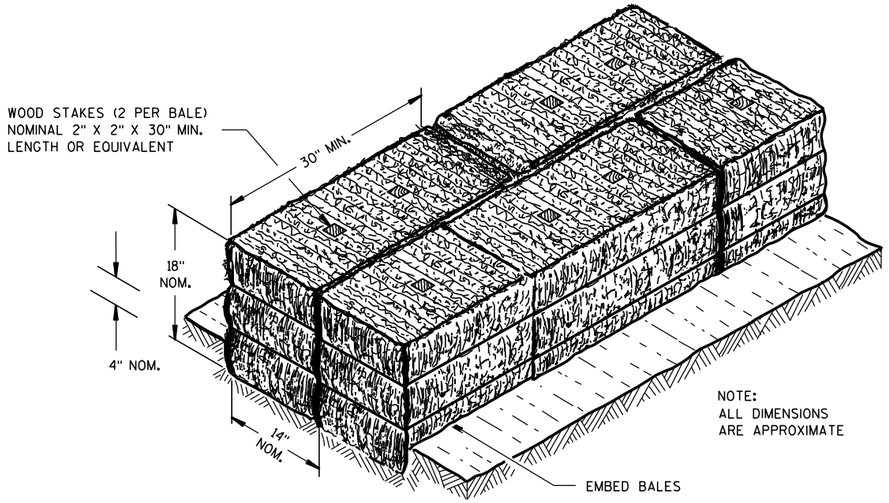
FHWA

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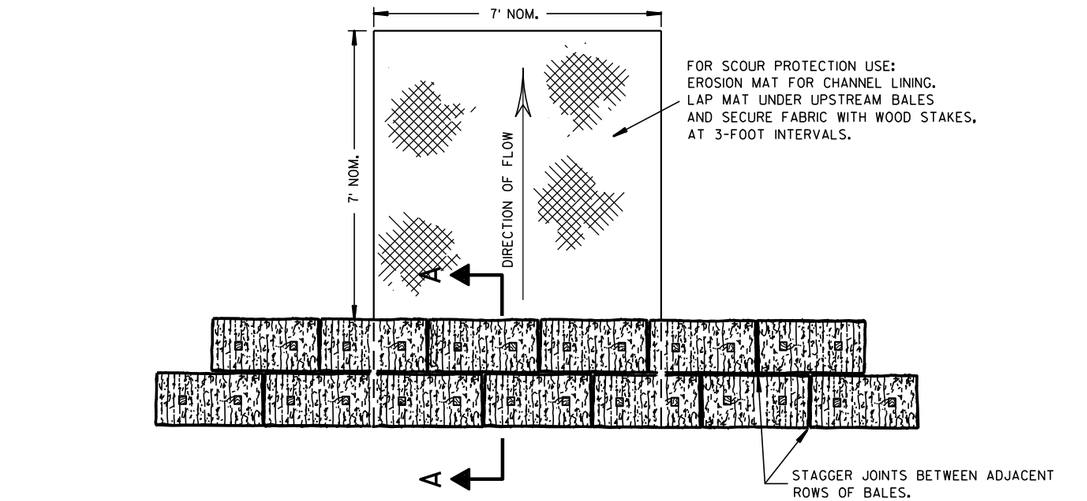
SDD 08D22 - 01

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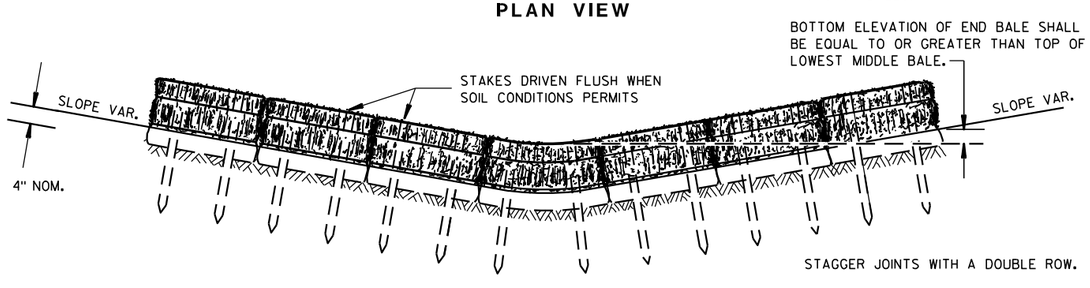
SDD 08D22 - 01



SECTION A-A



PLAN VIEW



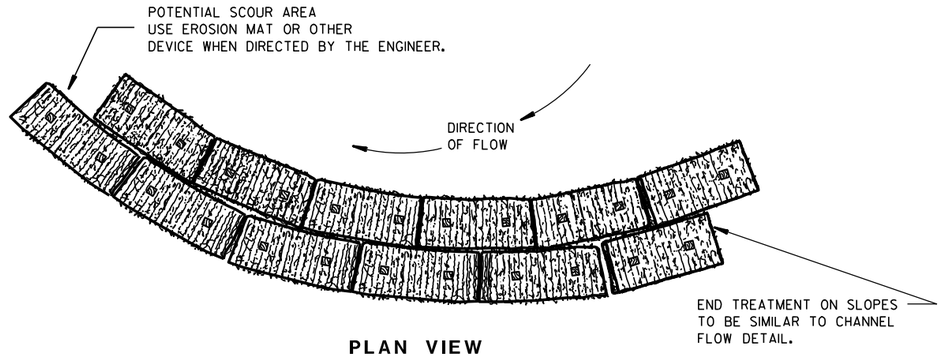
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

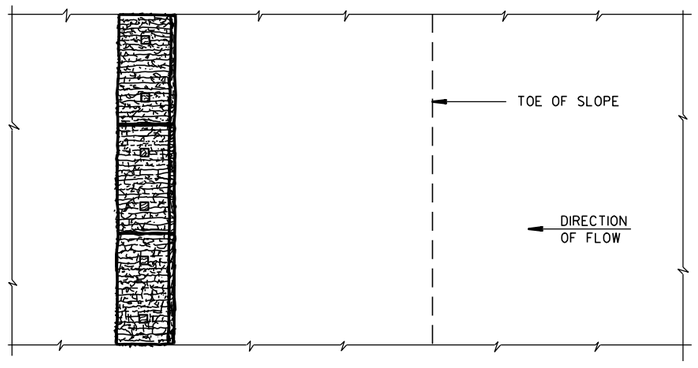
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

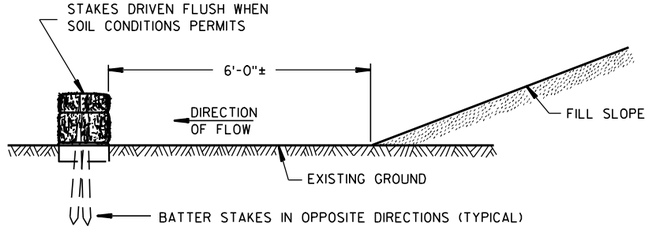


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

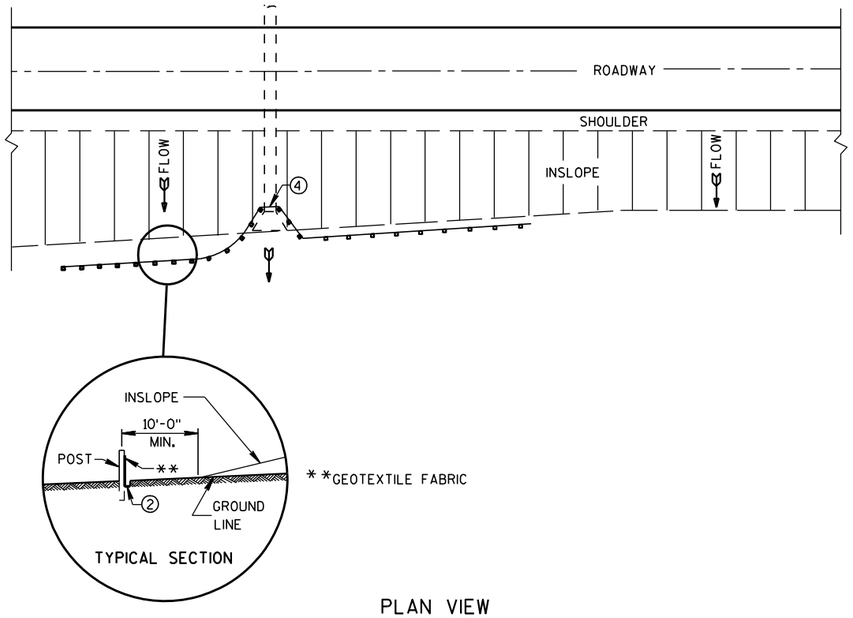
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

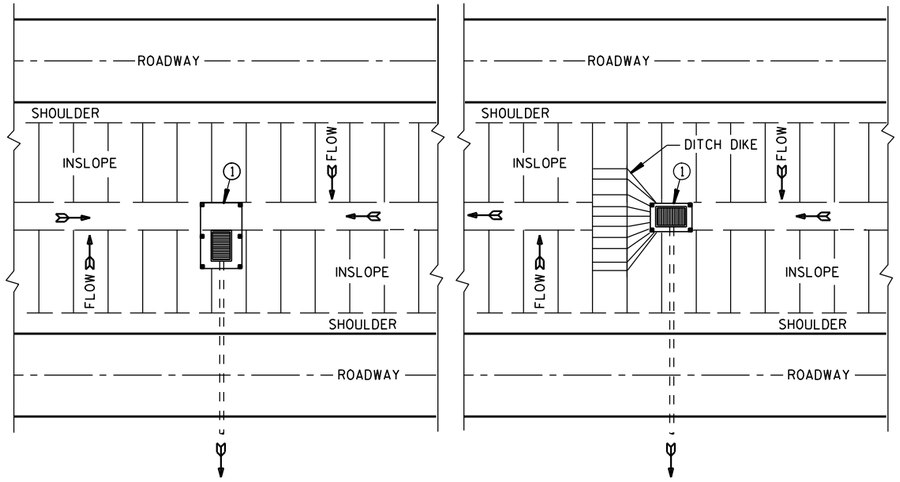
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



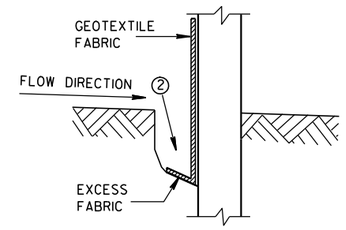
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

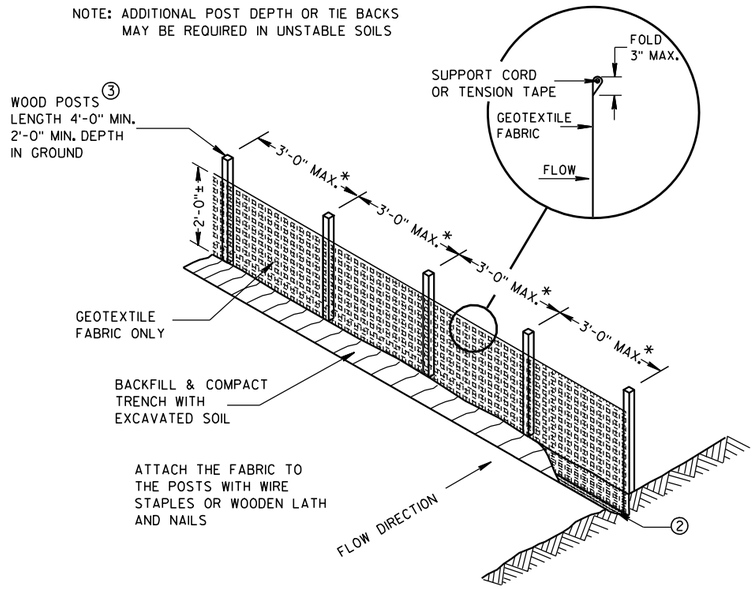
GENERAL NOTES

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.

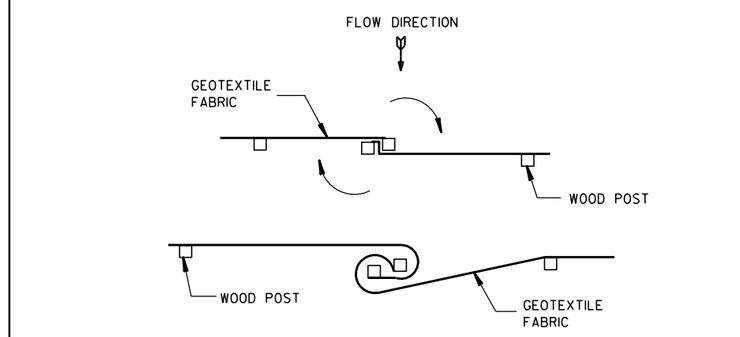


TRENCH DETAIL

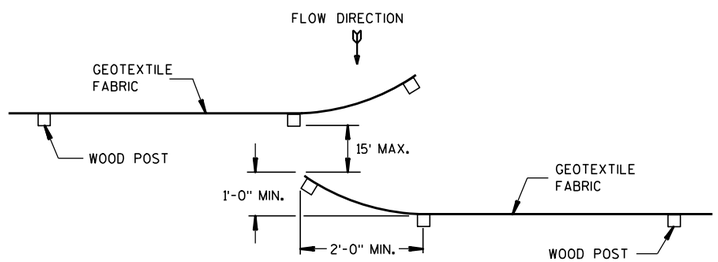


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

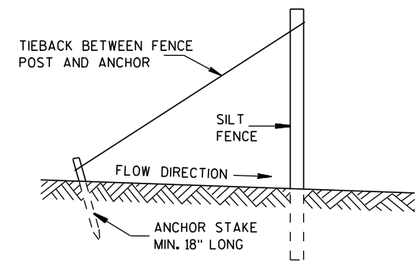


TWIST METHOD



HOOK METHOD

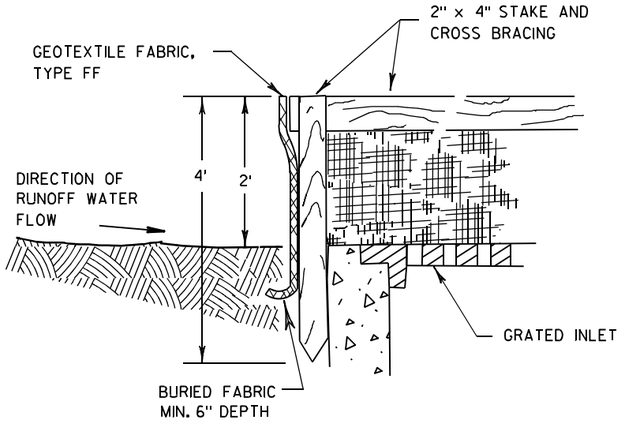
JOINING TWO LENGTHS OF SILT FENCE 5

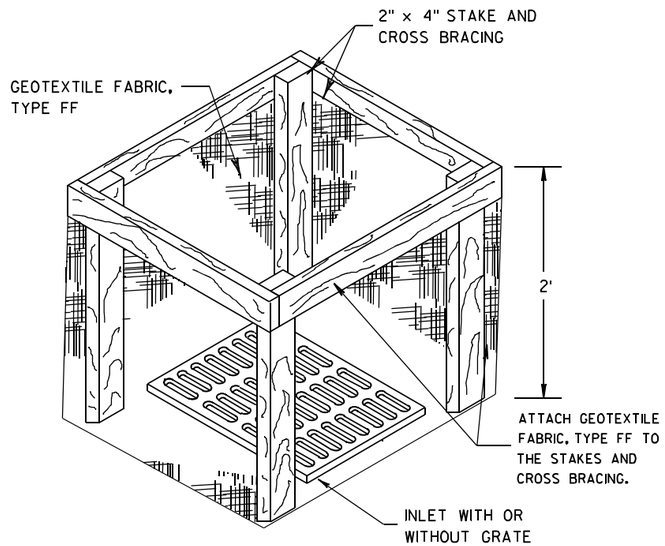


SILT FENCE TIE BACK

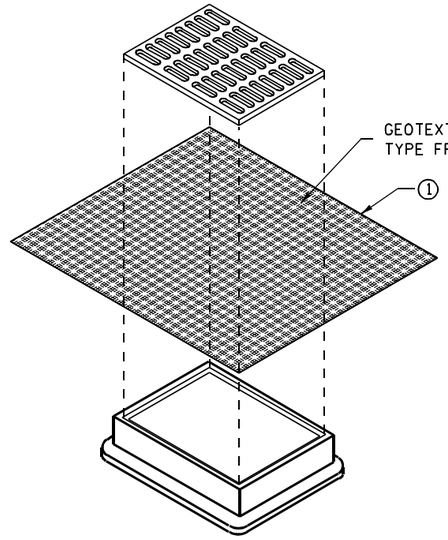
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4-29-05 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



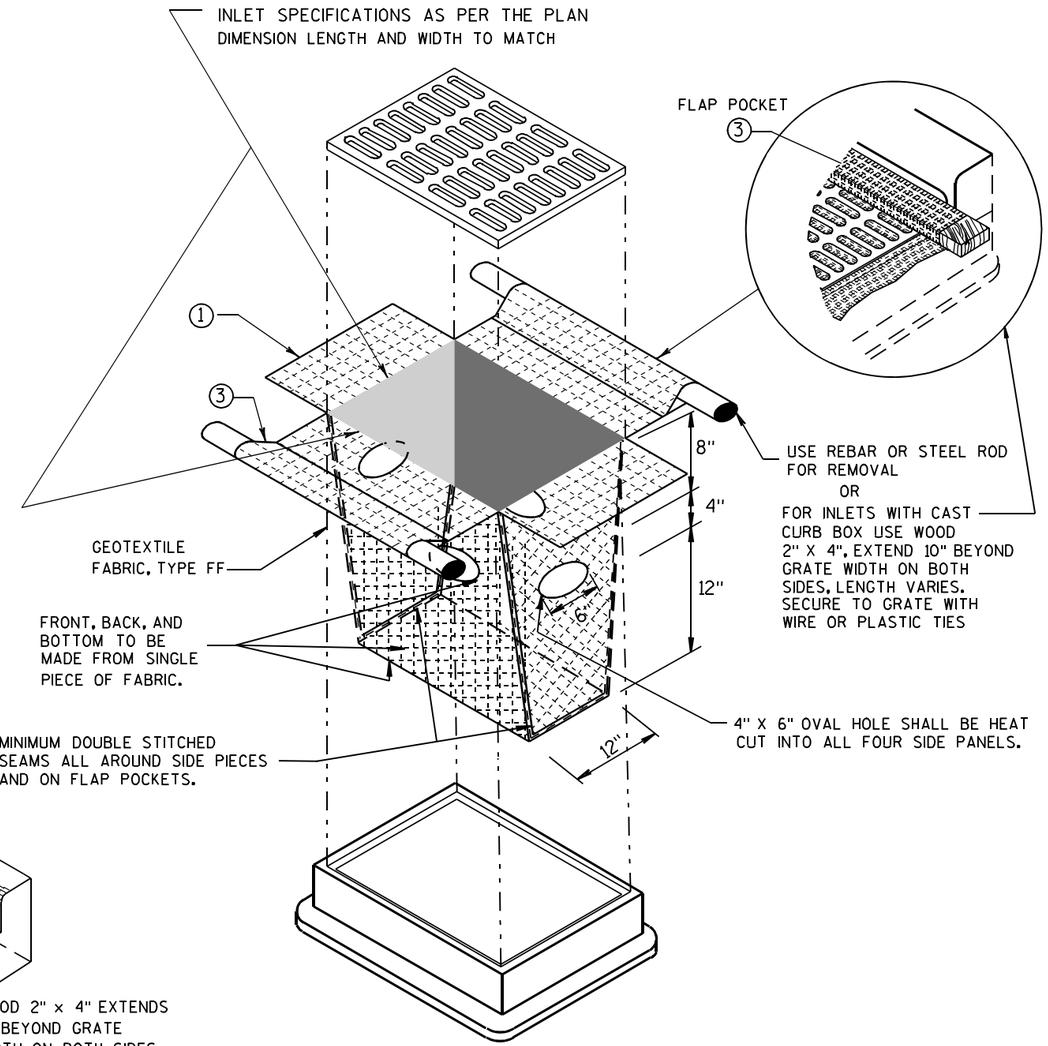


INLET PROTECTION, TYPE A



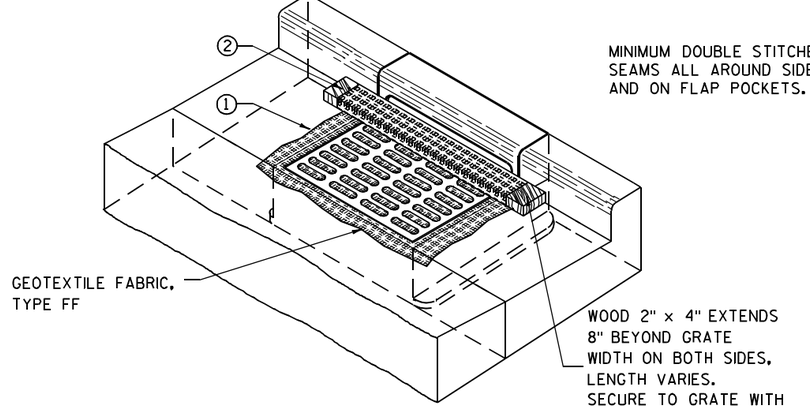
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

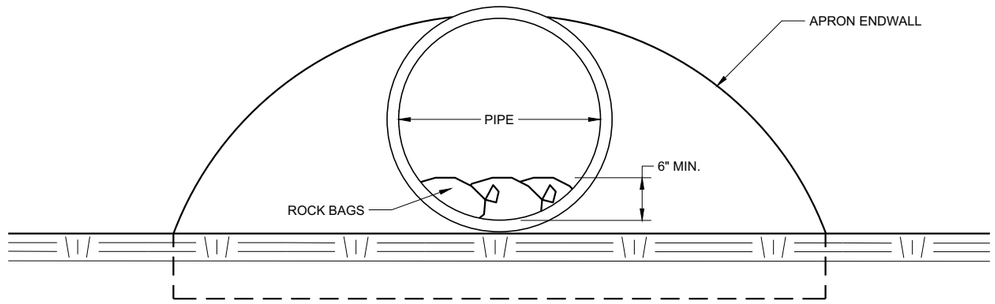
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

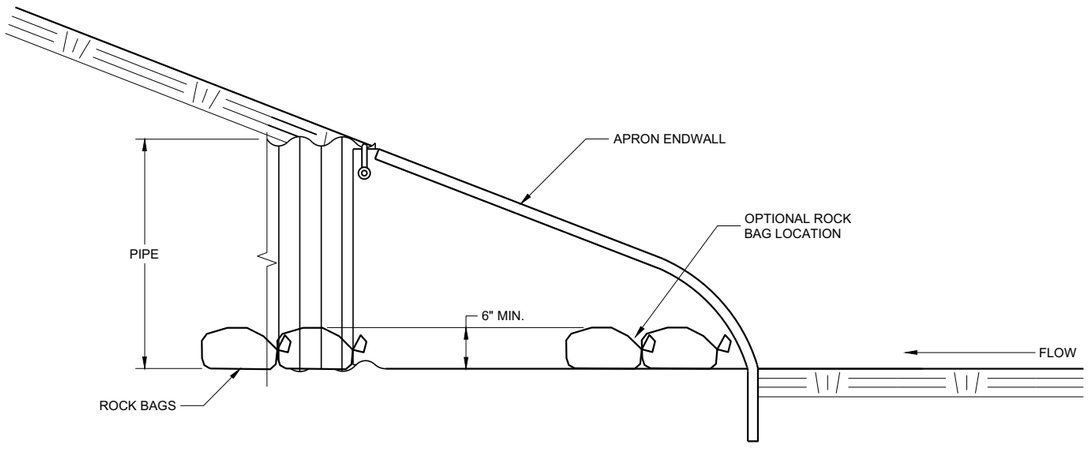
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 10-2



END VIEW



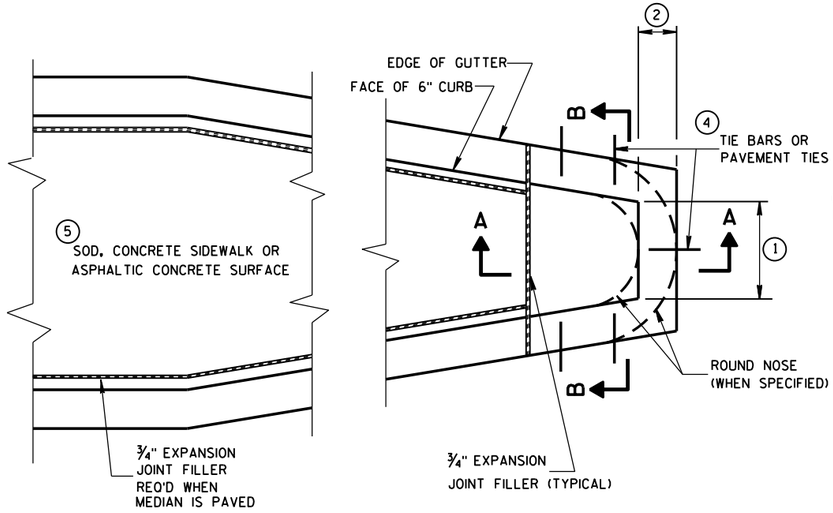
SIDE VIEW

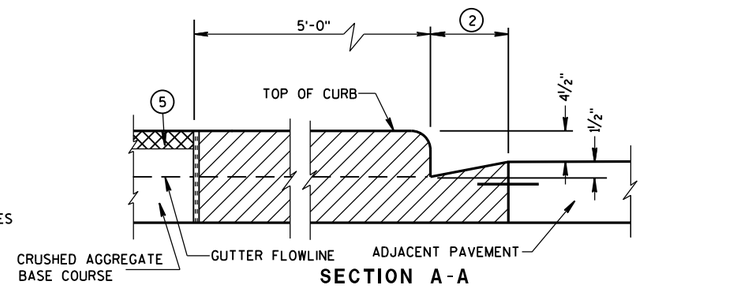
CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGI
FHWA	

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SDD 08E15 - 01





CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

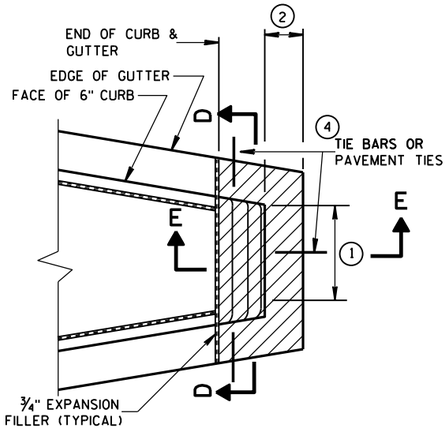
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

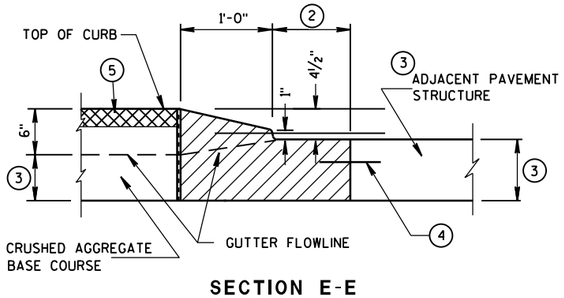
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

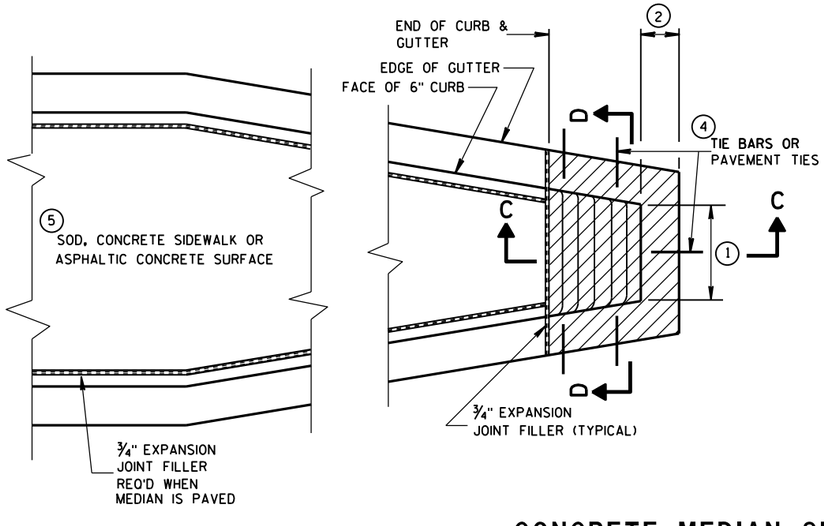
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

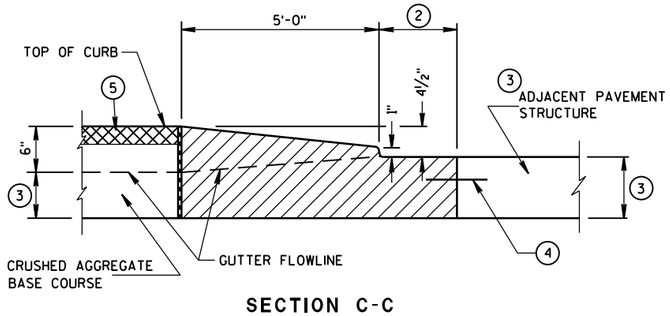




SECTION E-E

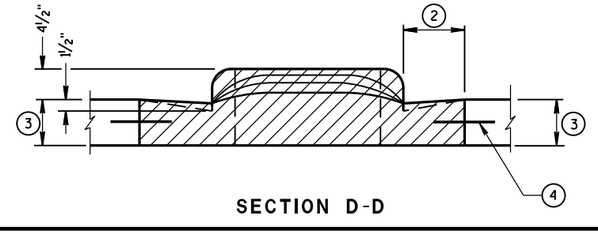
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

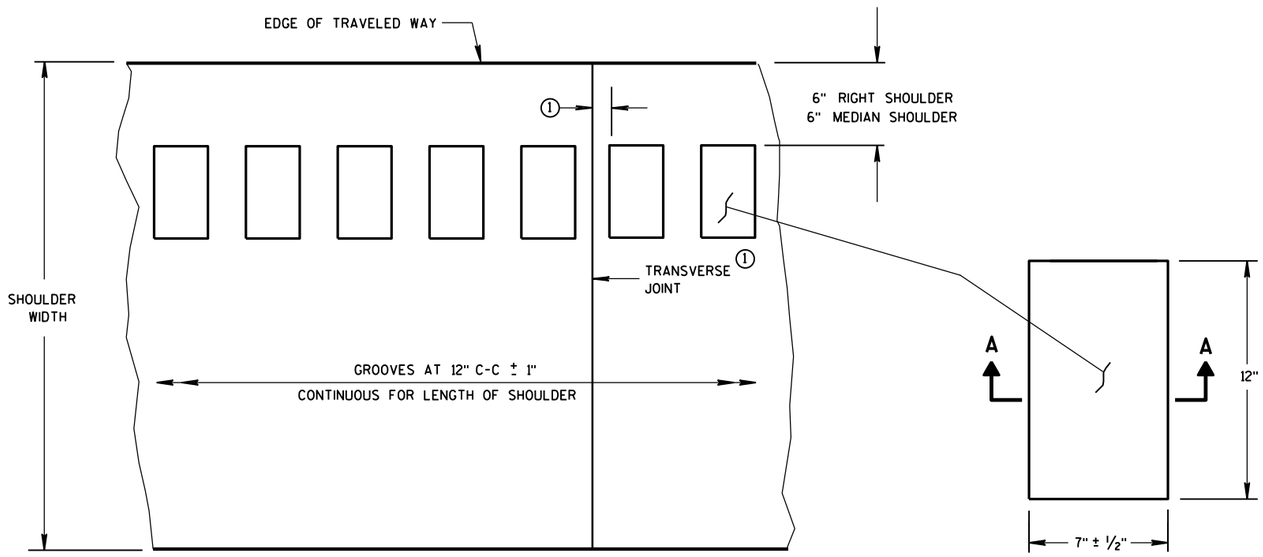
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

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S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

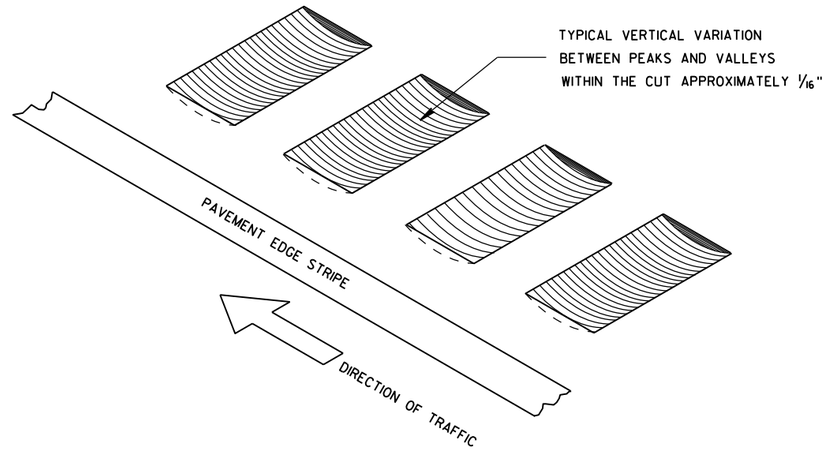
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

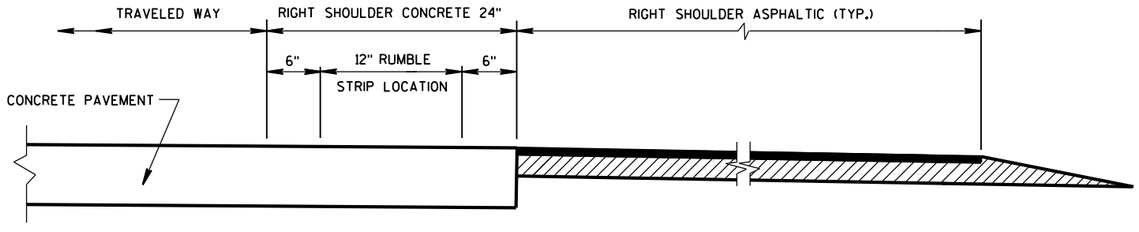
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

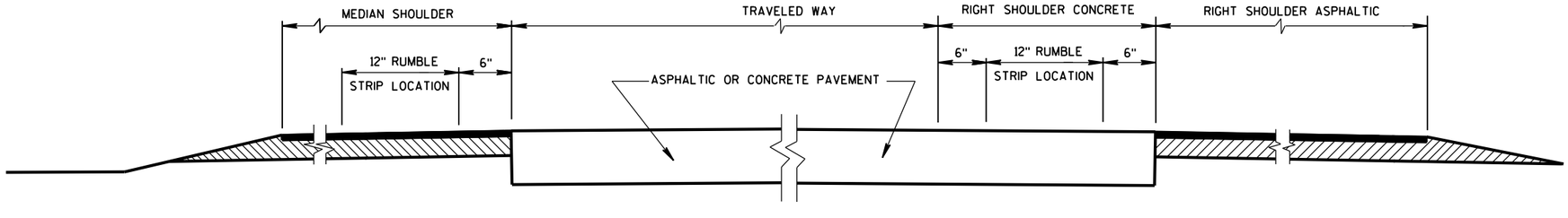
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



ISOMETRIC



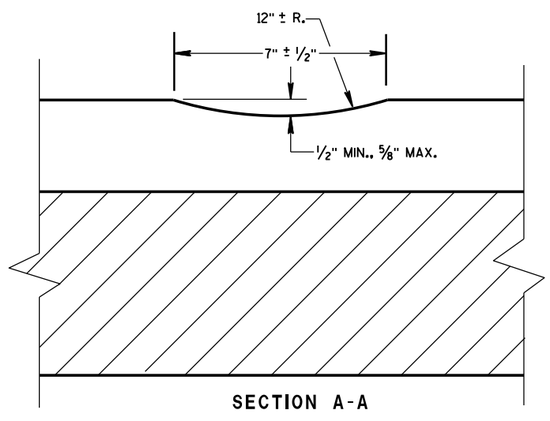
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

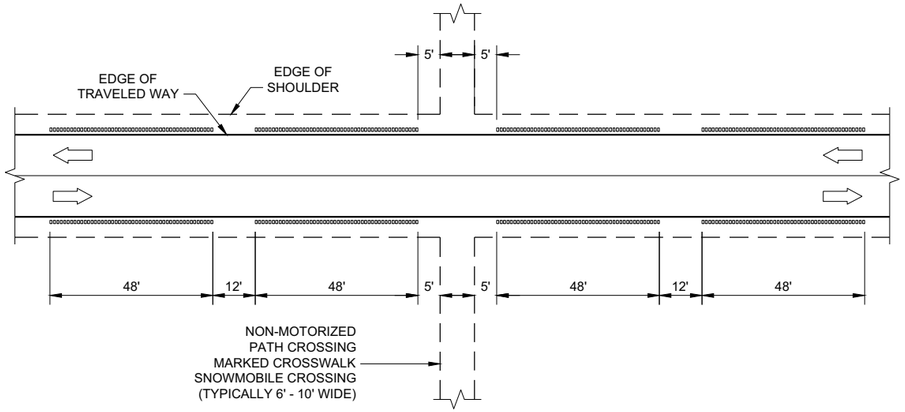
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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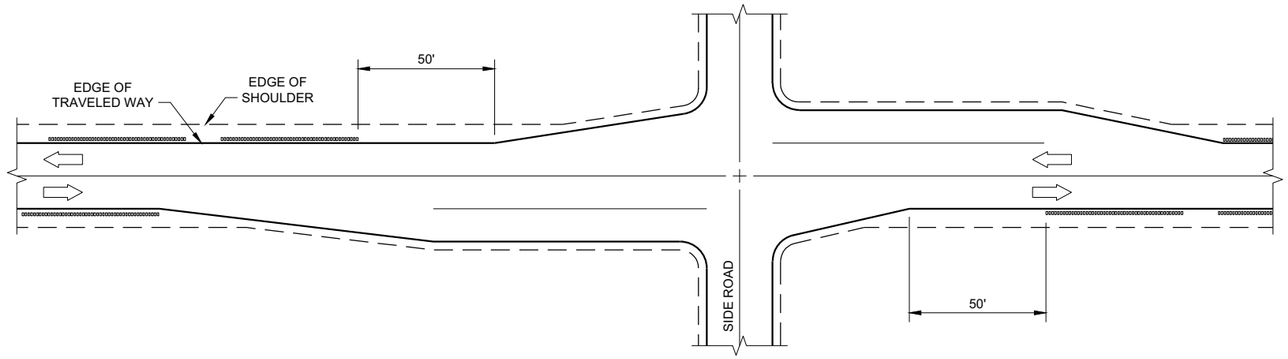
S.D.D. 13 A 5-5a

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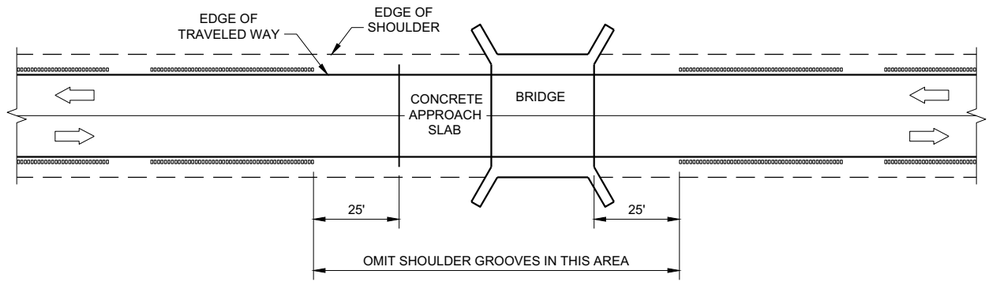
S.D.D. 13 A 5-5a



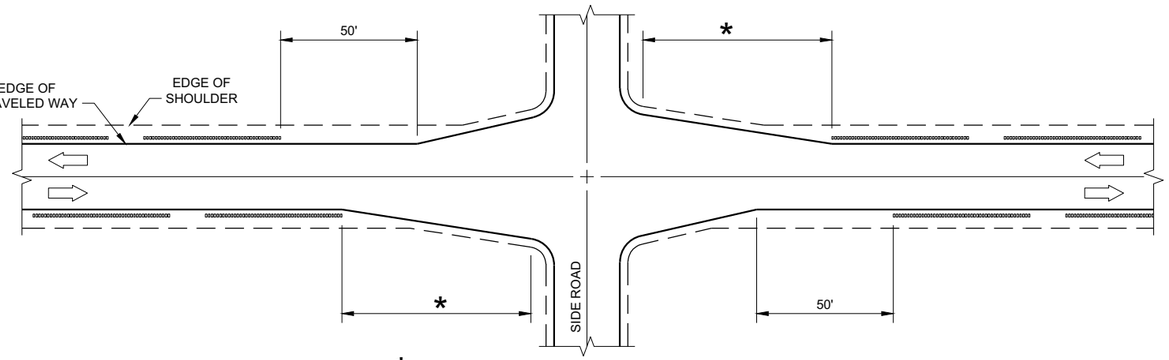
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



SHOULDER GROOVES AT RIGHT TURN LANE

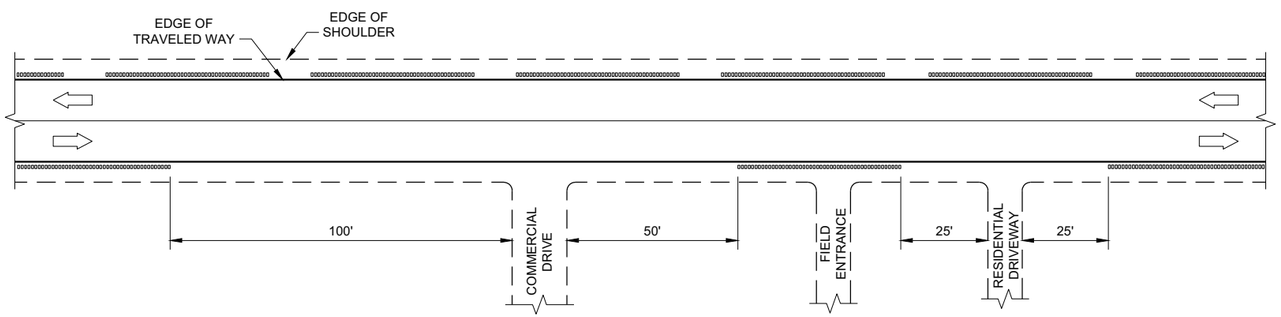


SHOULDER GROOVES AT BRIDGES



* GREATER OF 100' OR APPROACH TAPER LENGTH

SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER



SHOULDER GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

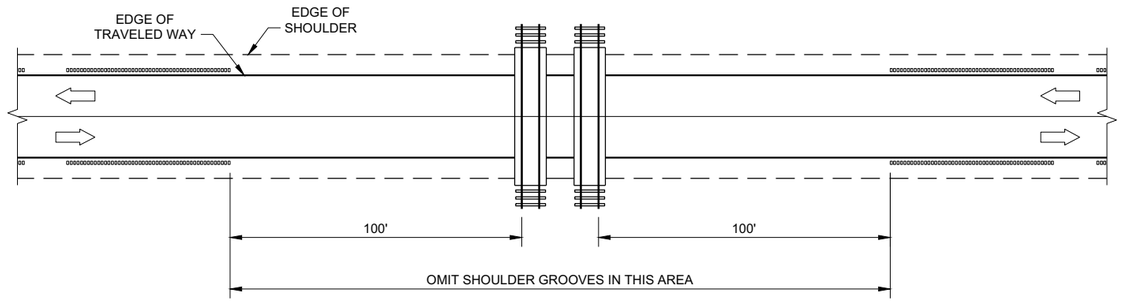
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

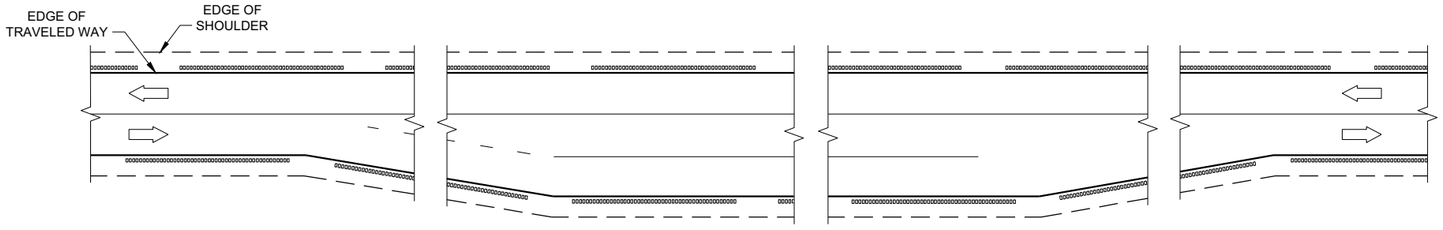
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

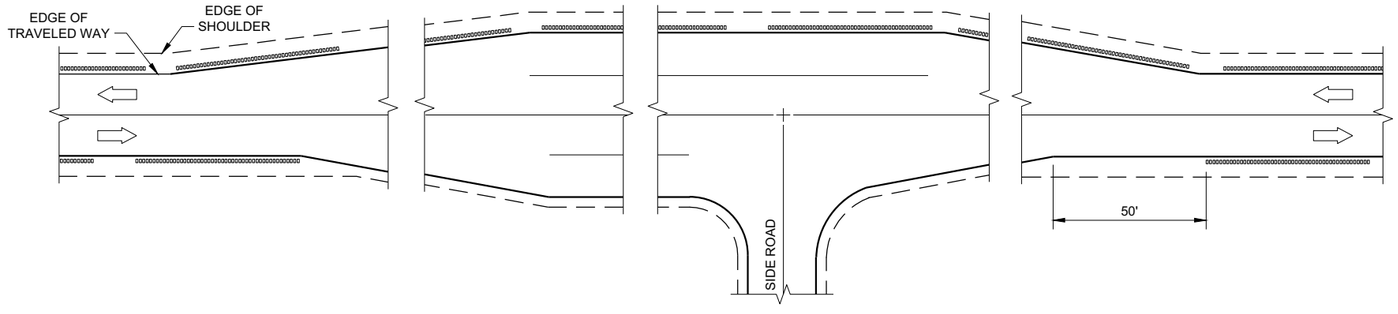
SDD 13A10 - 02c
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

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SDD 13A10 - 02d

SDD13A10 - 02d

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

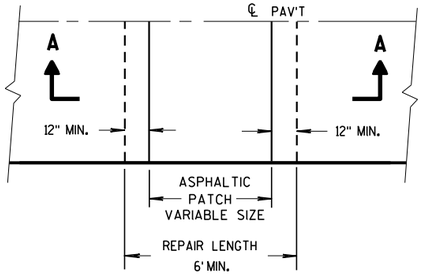
GENERAL NOTES

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.

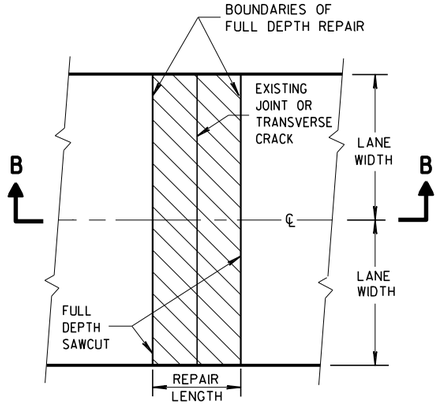
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

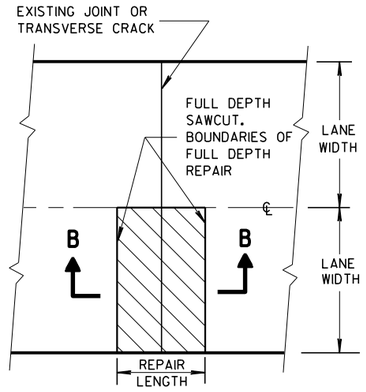
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

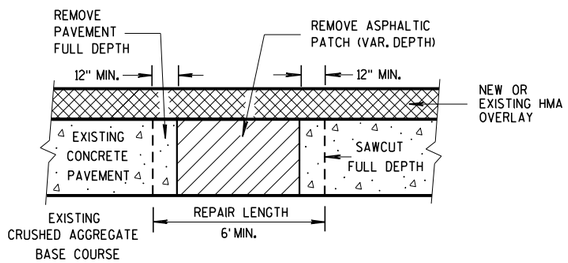


PLAN VIEW
(DOUBLE LANE REPAIR)



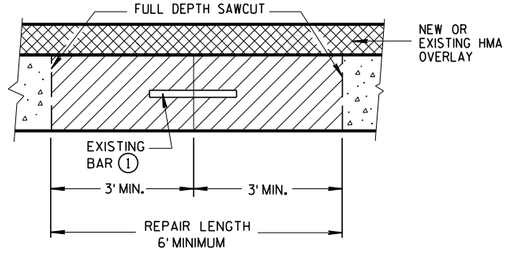
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

CONCRETE REMOVAL

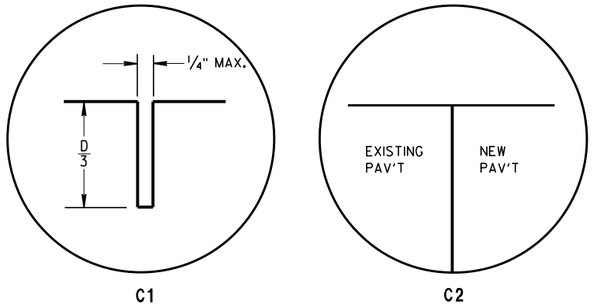
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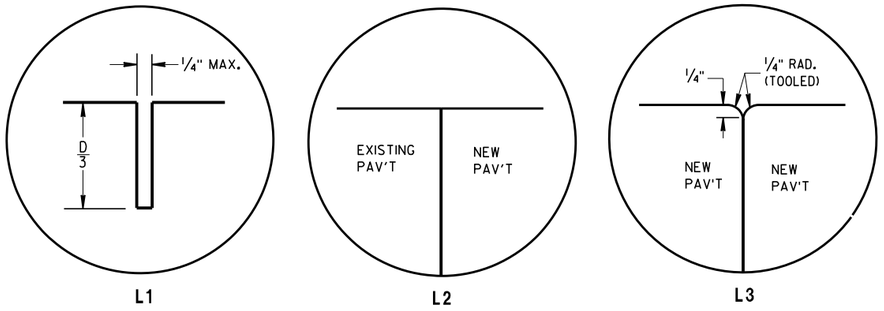
S.D.D. 13 C 14-7a

S.D.D. 13 C 14-7a

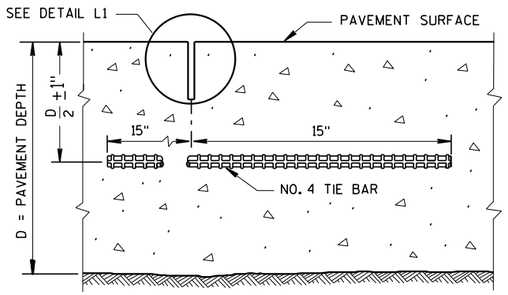
BASE PATCHING CONCRETE



TRANSVERSE JOINTS

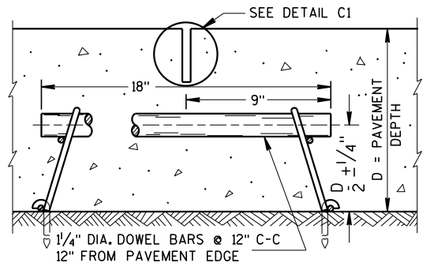


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

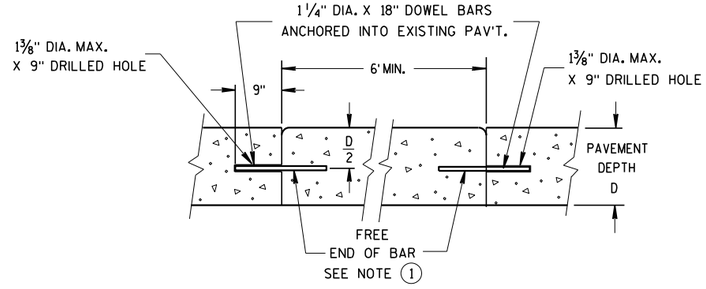
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

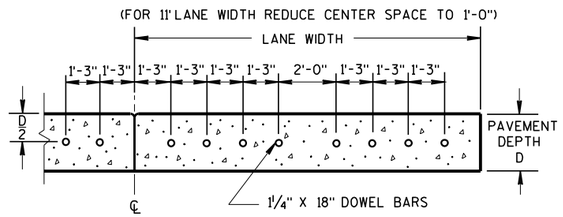
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

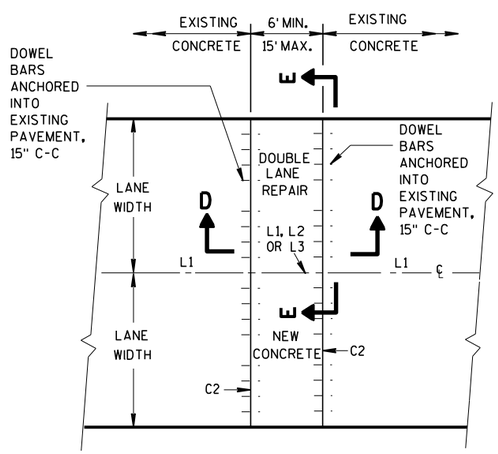


SECTION D-D



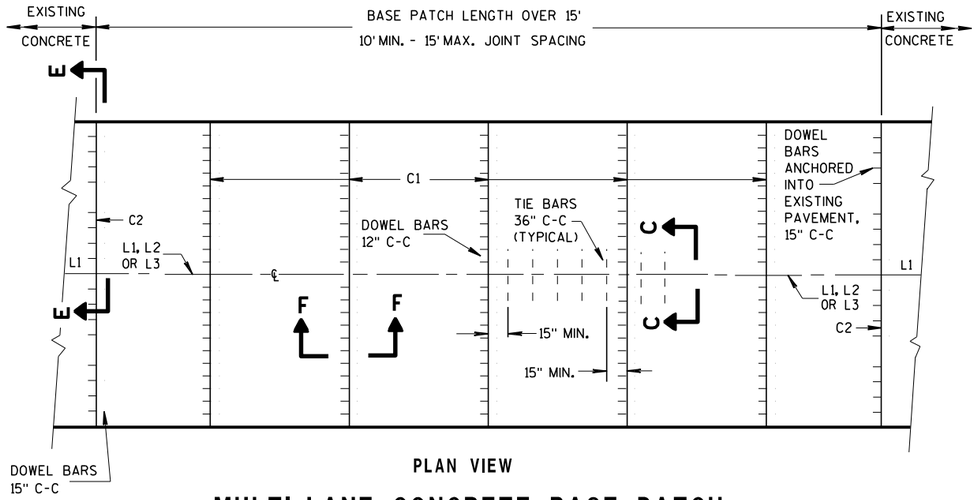
SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE

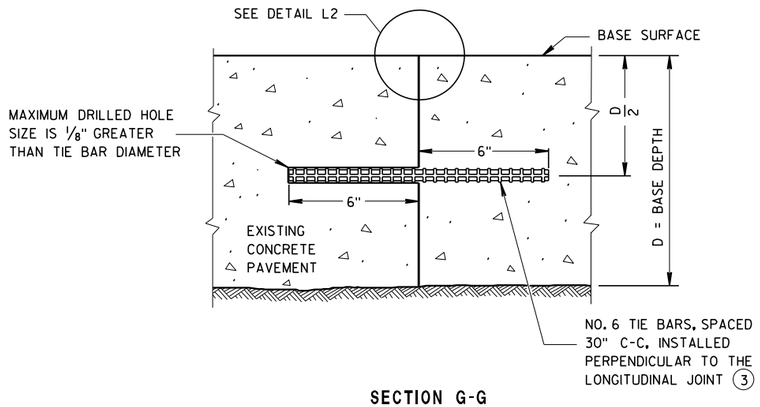
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 13 C 14-7b

6

S.D.D. 13 C 14-7b



SECTION G-G

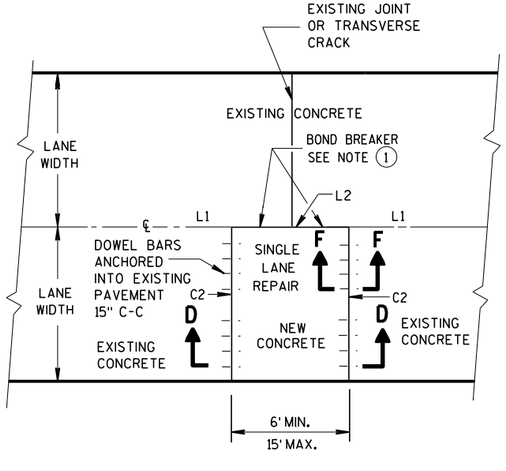
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

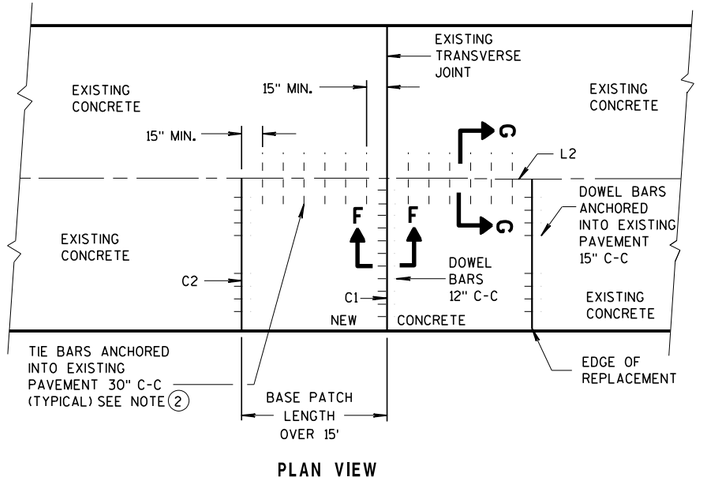
(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

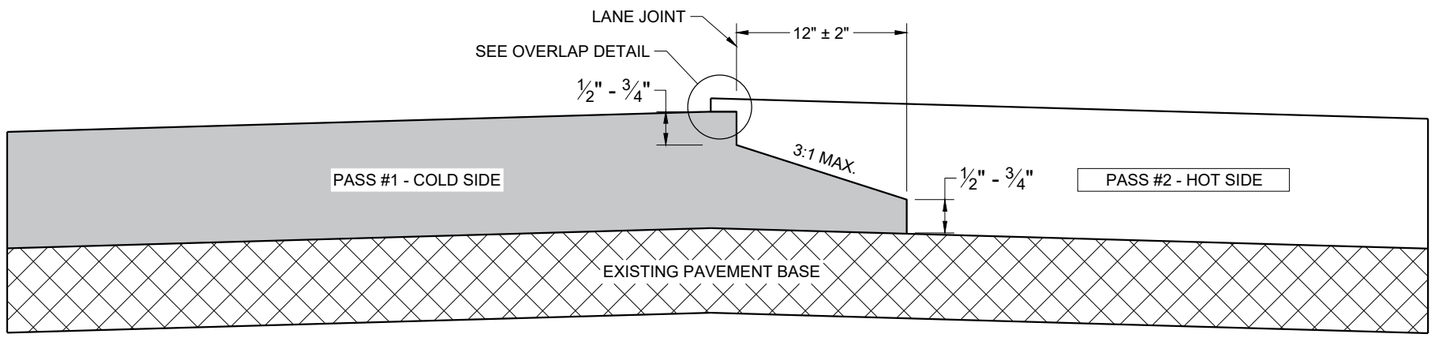
BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

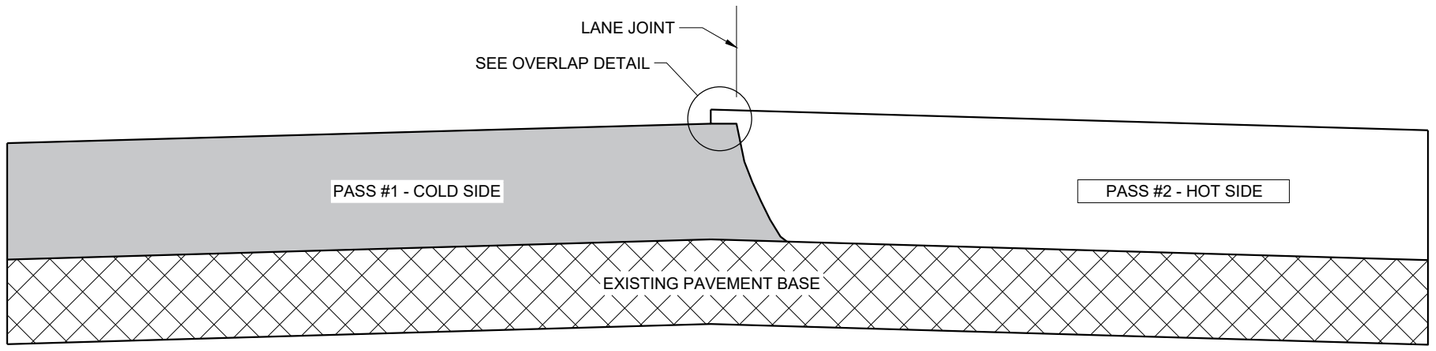
APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPERVISOR
FHWA

6

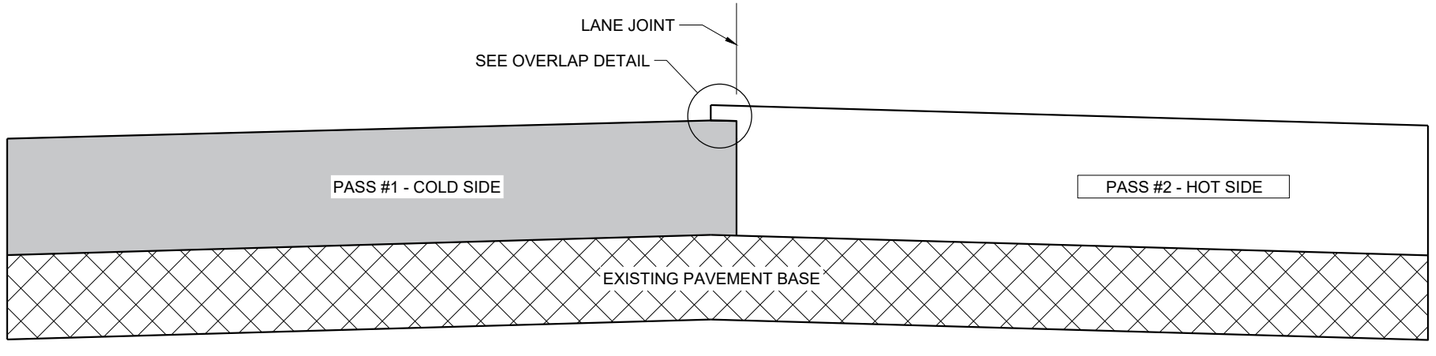
S.D.D. 13 C 14-7c



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

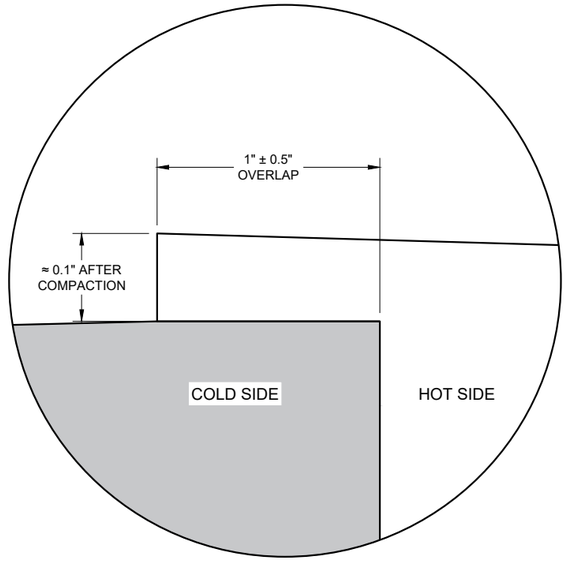
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

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SDD 13C19 - 03

SDD 13C19 - 03

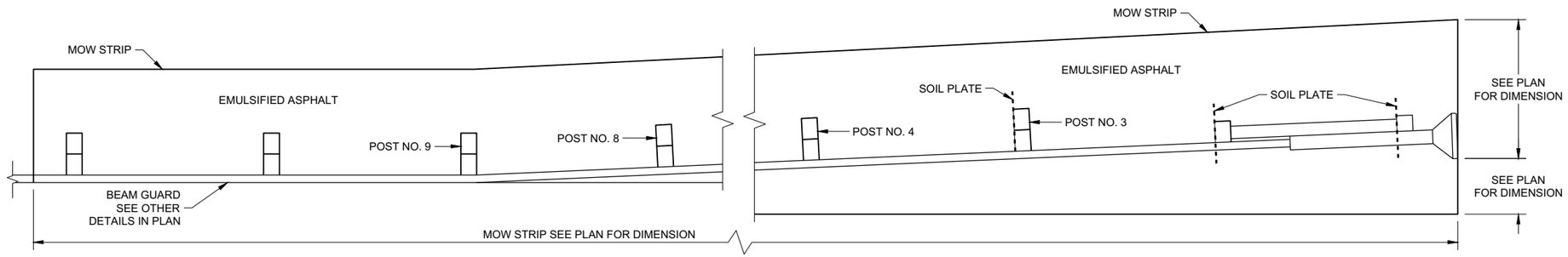
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



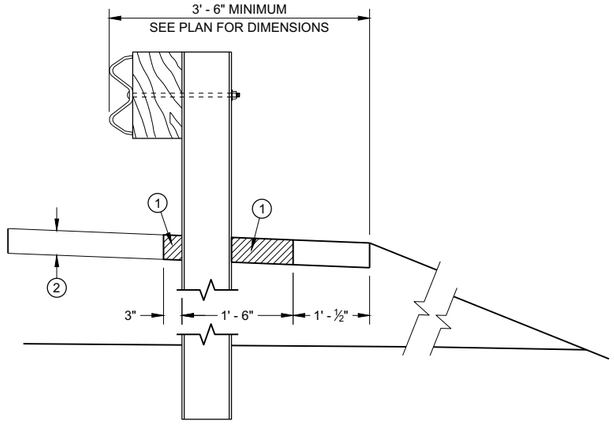
PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABSORBING TERMINAL

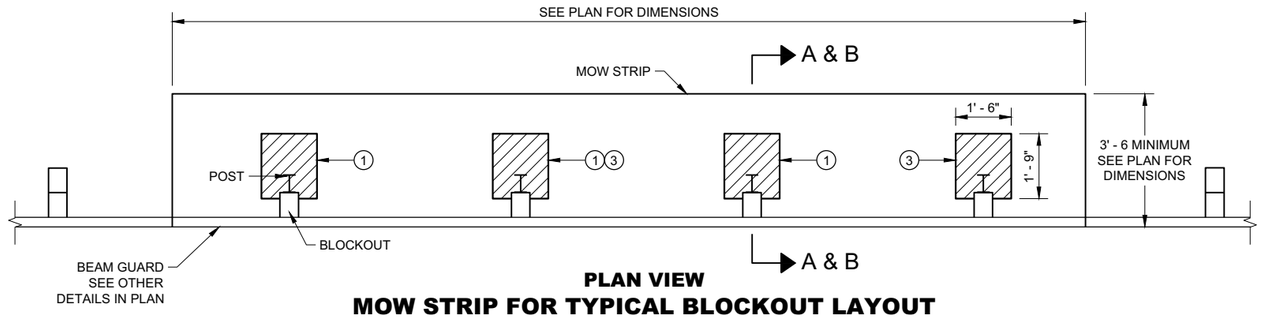
GENERAL NOTES

ONLY USE STEEL POSTS IN CONCRETE AND ASPHALT MOW STRIPS.

1. CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.
2. DEPTH OF MOW STRIP:
   ASPHALT - 4"
   CONCRETE - 4"
   EMULSIFIED ASPHALT - 1" OR LESS
3. FOR EMULSIFIED ASPHALT, MOW STRIP STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS)

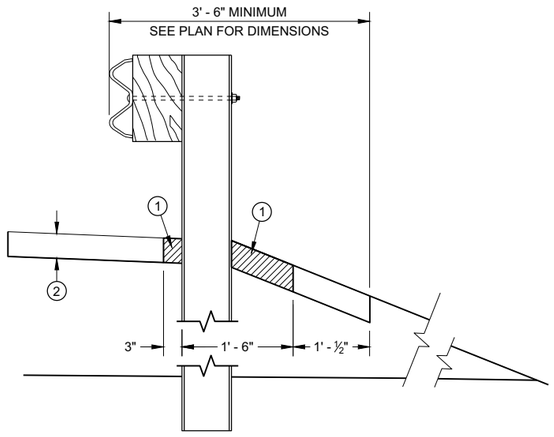


SECTION A - A

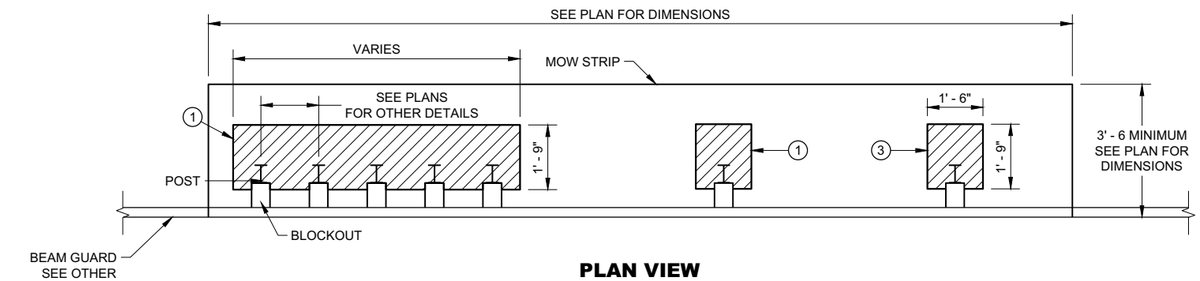


PLAN VIEW

MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT

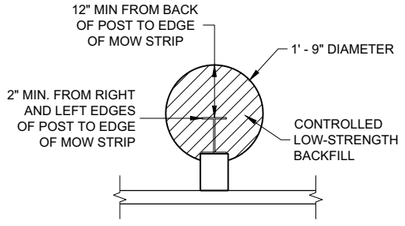


SECTION B - B

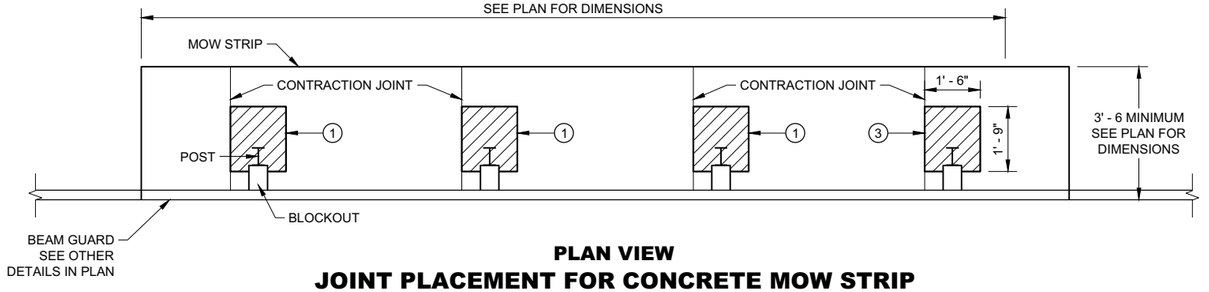


PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



ALTERNATIVE HMA MOW STRIP DESIGN



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B28 - 04a

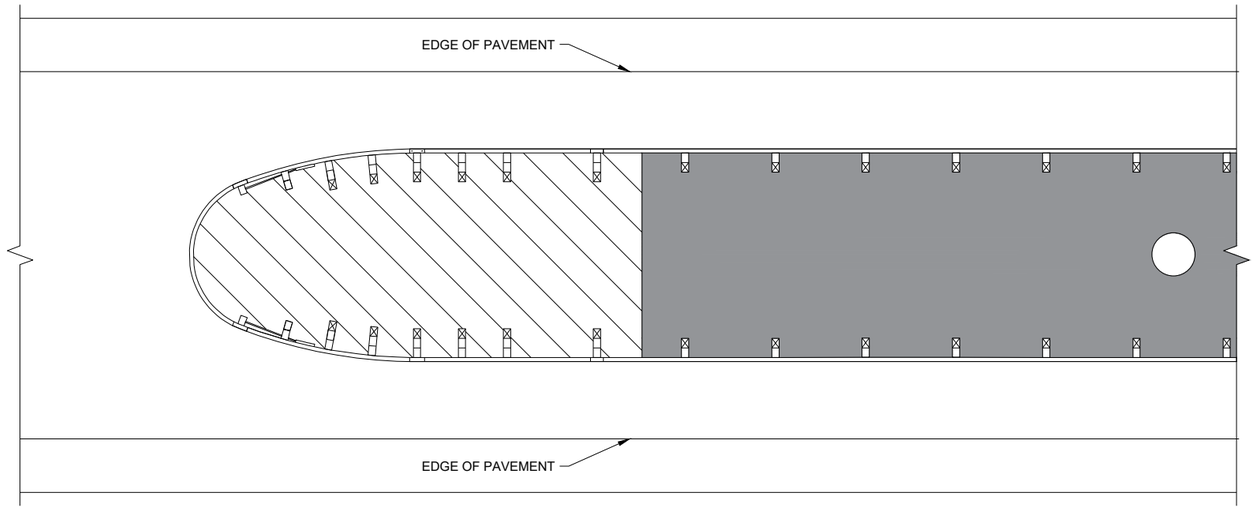
LEGEND

CONCRETE, ASPHALT, OR EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

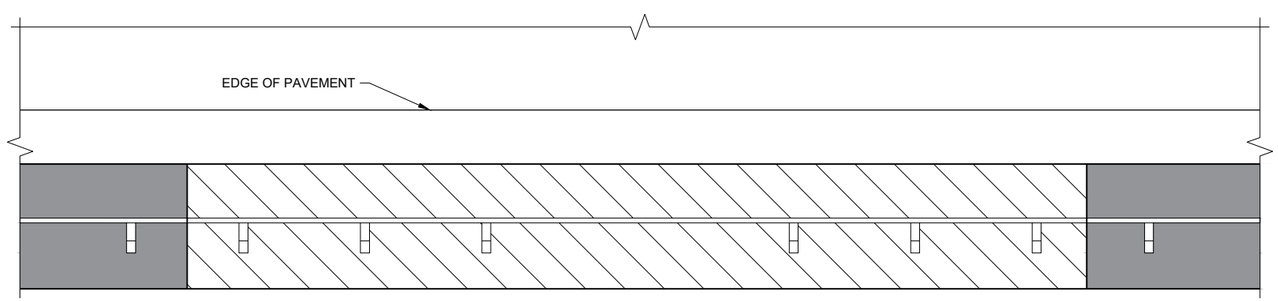
EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

GENERAL NOTES

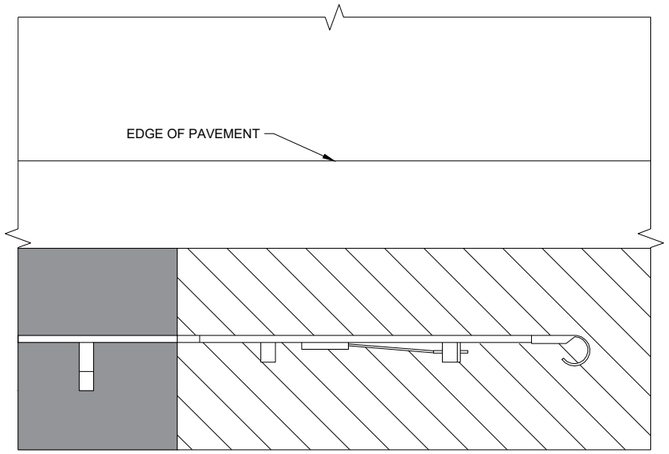
EXISTING THRIE BEAM BULLNOSES MAY HAVE WOOD POSTS. NEW THRIE BEAM BULLNOSE WILL HAVE STEEL POSTS.



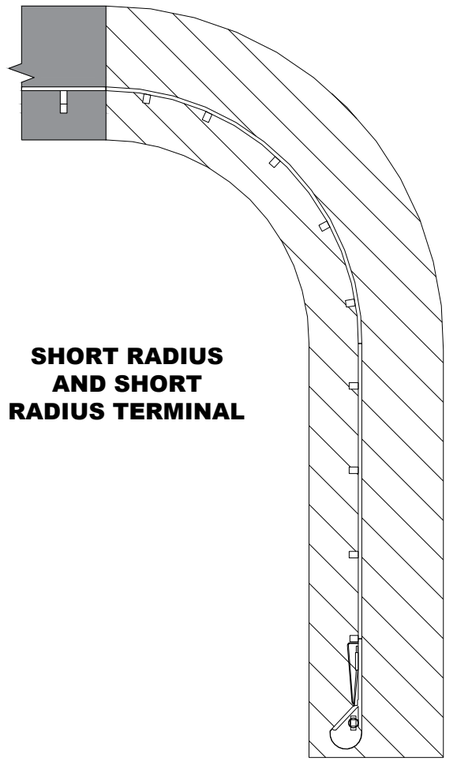
THRIE BEAM BULLNOSE



LONG - SPAN



TYPE 2 TERMINAL



SHORT RADIUS AND SHORT RADIUS TERMINAL

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
ENGINEER

FHWA

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SDD 14B28 - 04b

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SDD 14B28 - 04b

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

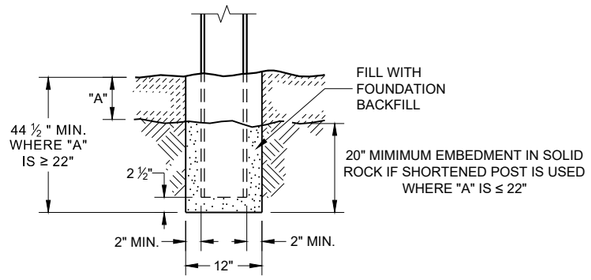
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

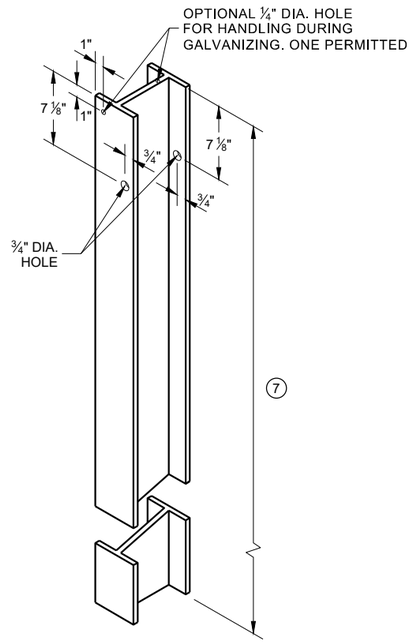
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

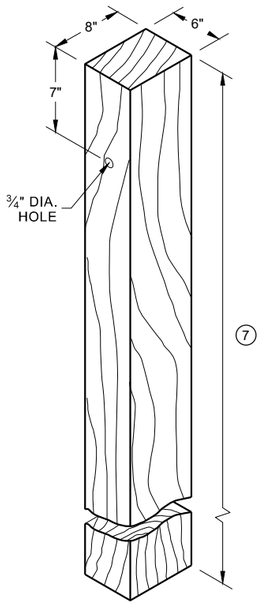
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



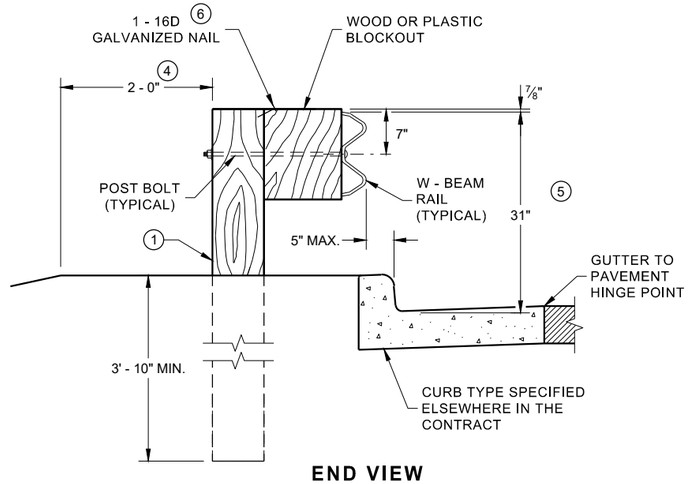
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



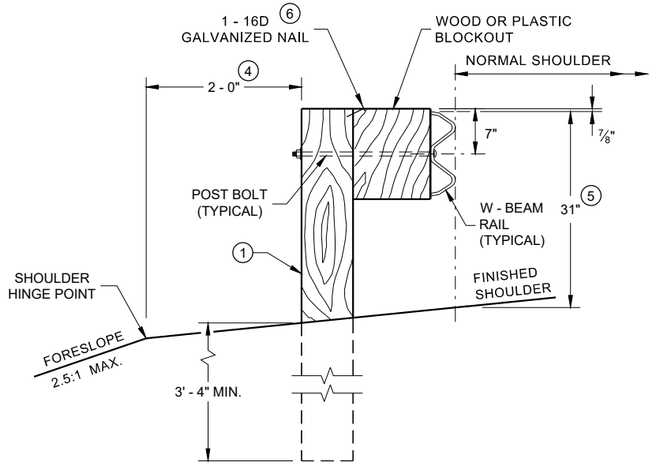
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



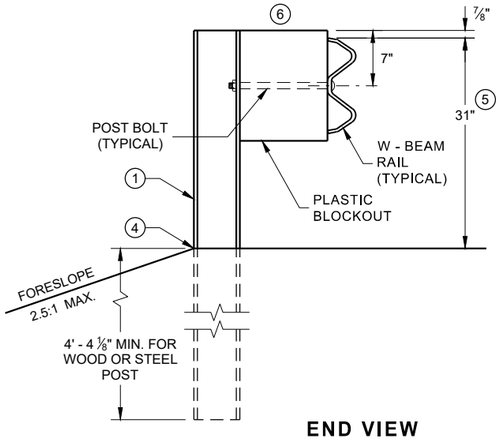
WOOD POST (6" X 8") NOMINAL (1)



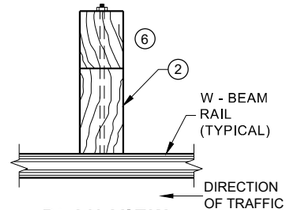
END VIEW
LOCATED ALONG A CURBED ROADWAY



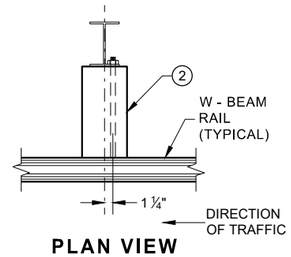
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



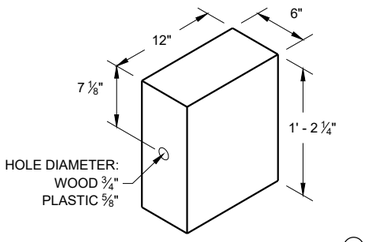
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

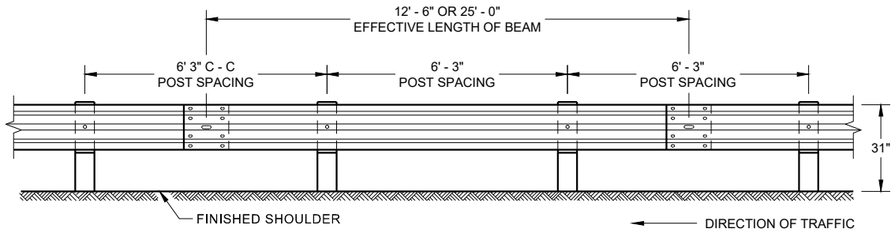
STATE OF WISCONSIN
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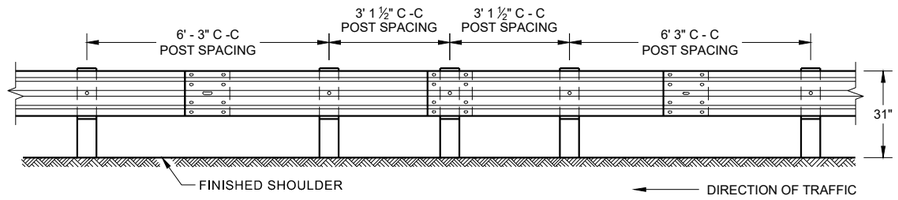
SDD 14B42 - 07a

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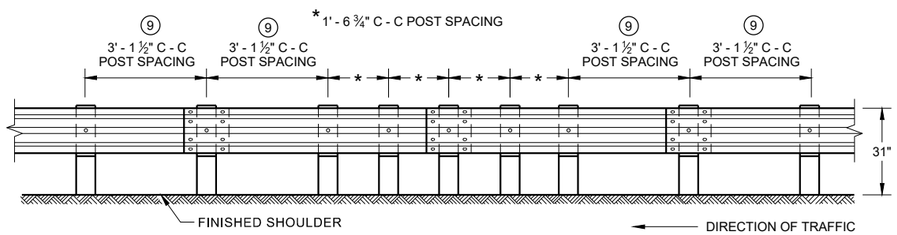
SDD 14B42 - 07a



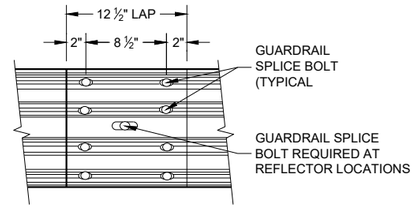
FRONT VIEW
POST SPACING STANDARD INSTALLATION



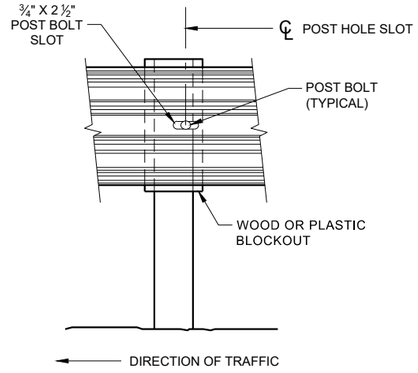
FRONT VIEW
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



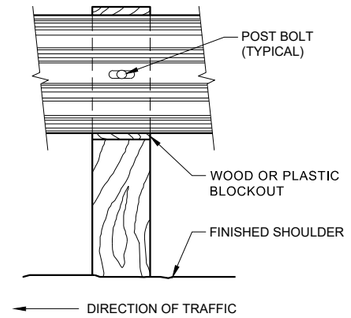
FRONT VIEW
QUARTER POST SPACING (QS)



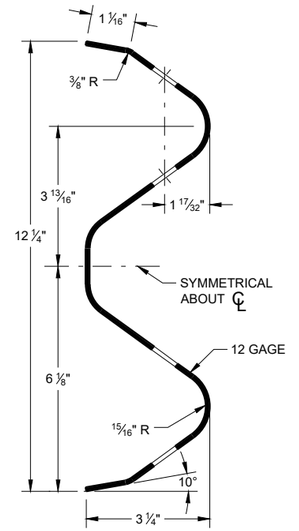
FRONT VIEW
MID-SPAN BEAM SPLICE



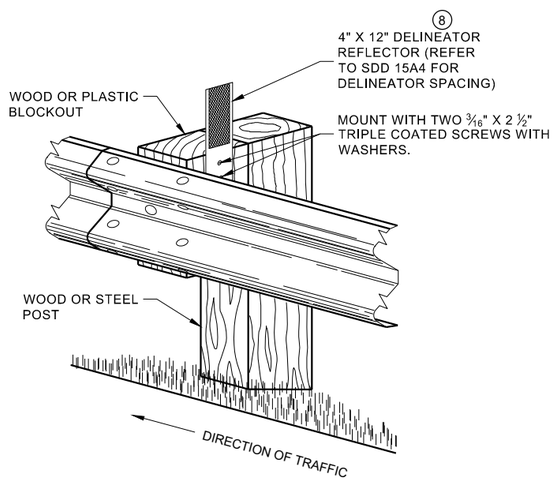
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

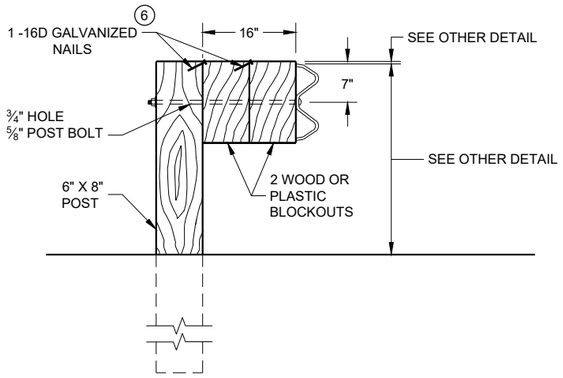
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B42 - 07b

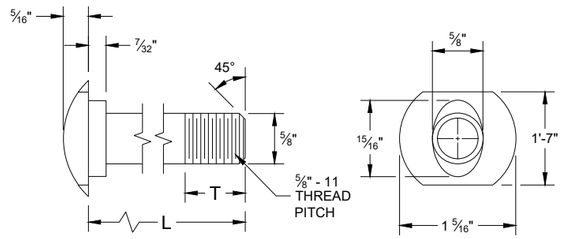


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

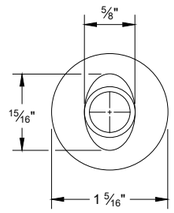
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

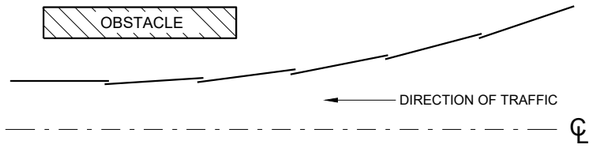


POST BOLT TABLE

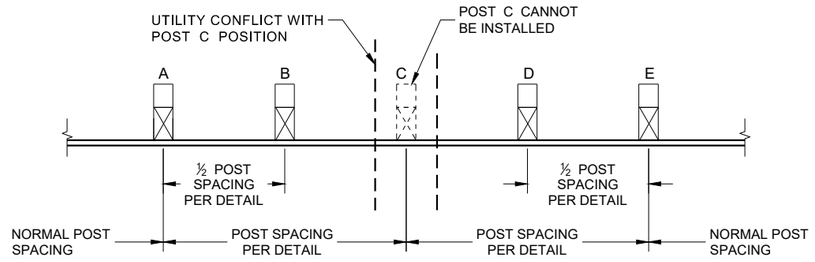
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



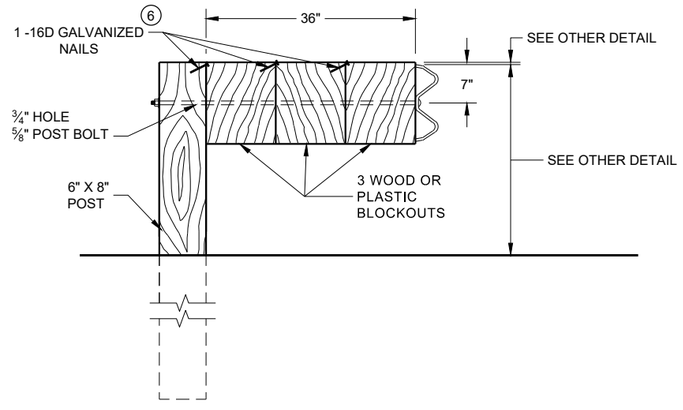
ALTERNATE BOLT HEAD



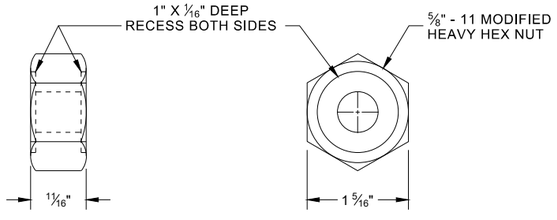
PLAN VIEW
BEAM LAPPING DETAIL



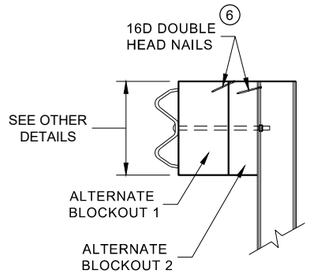
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



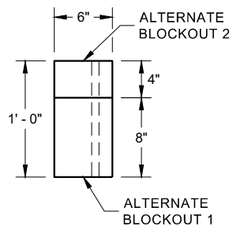
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

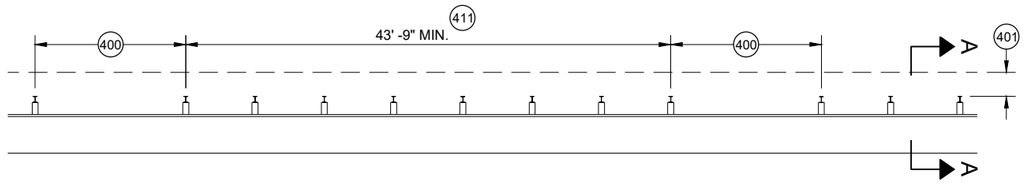
ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

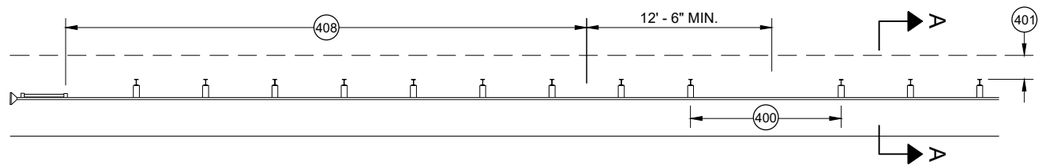
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

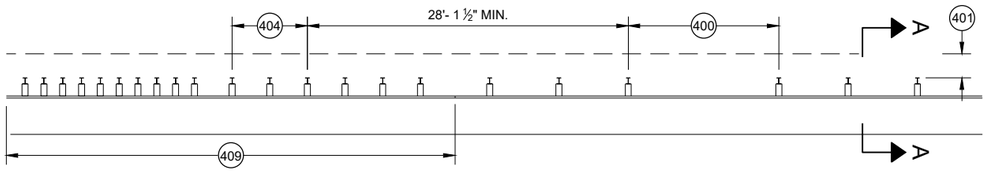
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL



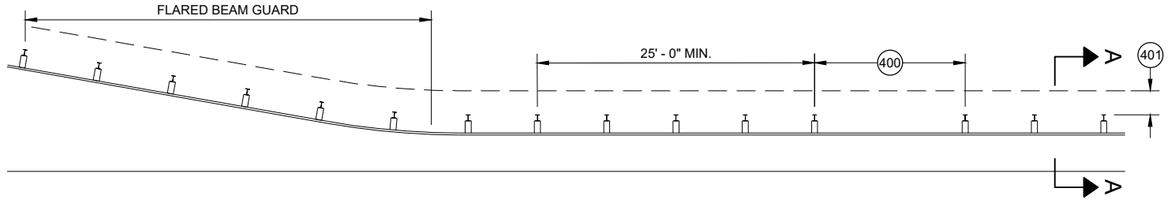
MISSING POST IN MGS GUARDRAIL



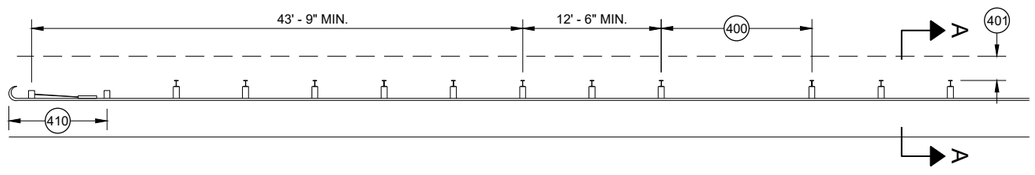
MISSING POST IN MGS GUARDRAIL NEAR EAT



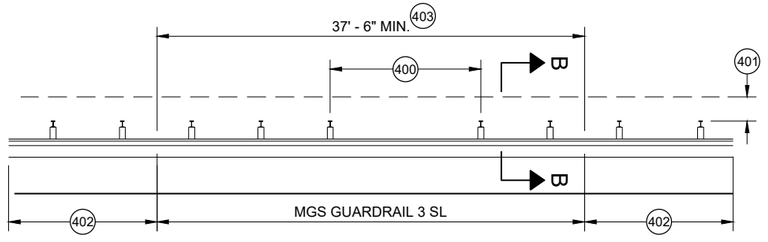
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

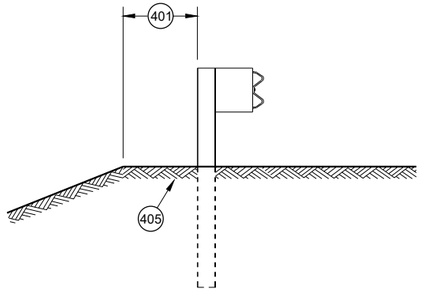


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

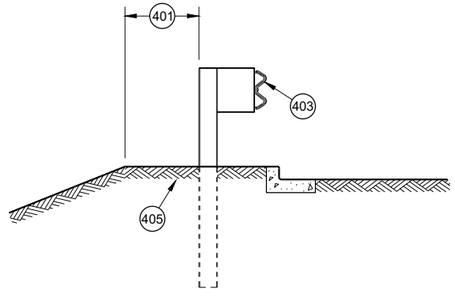


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

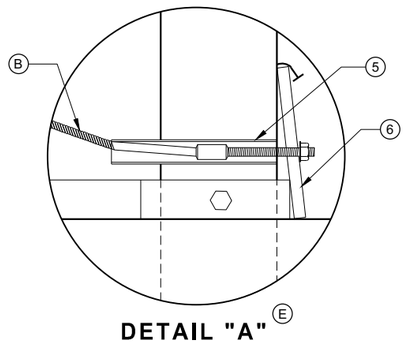
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

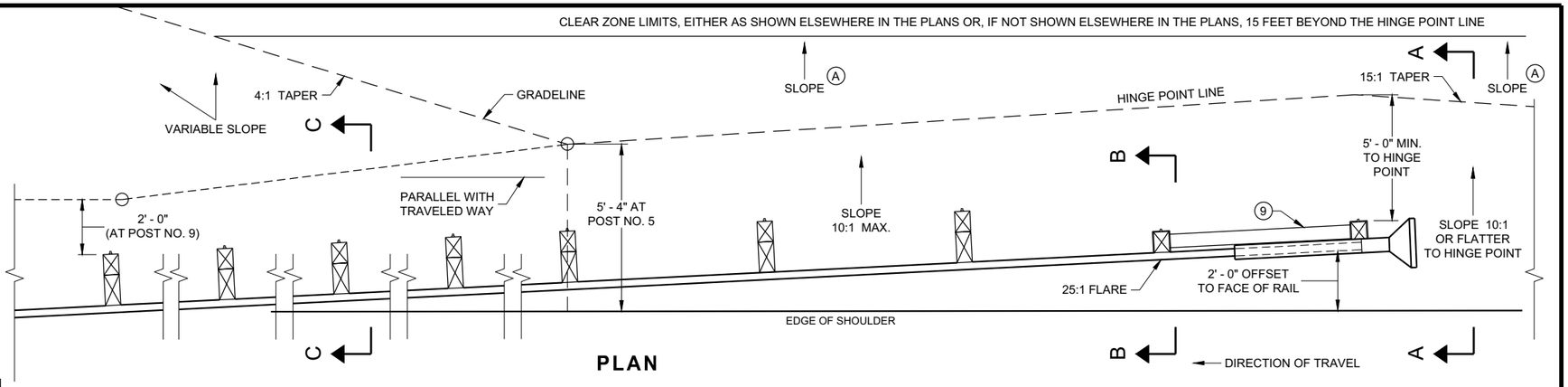
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

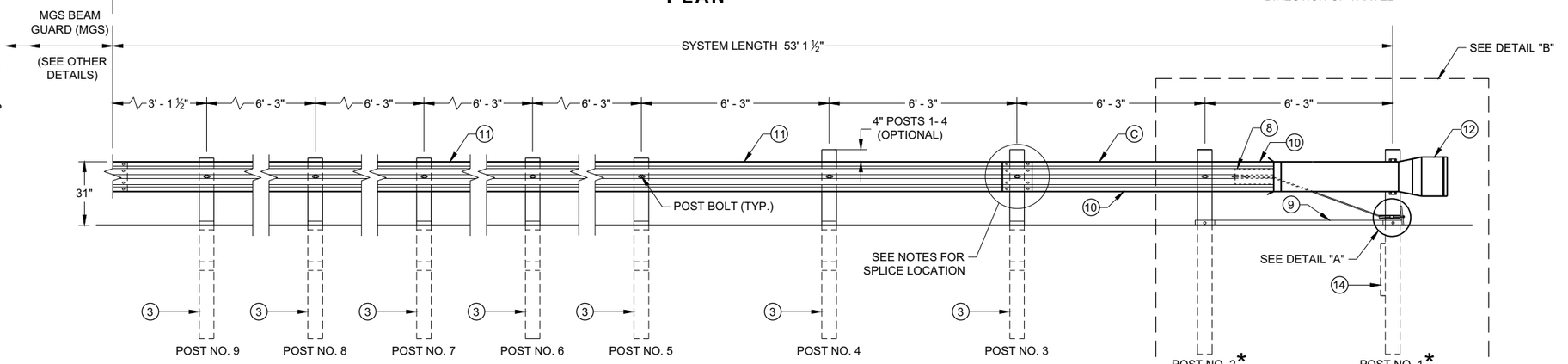
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



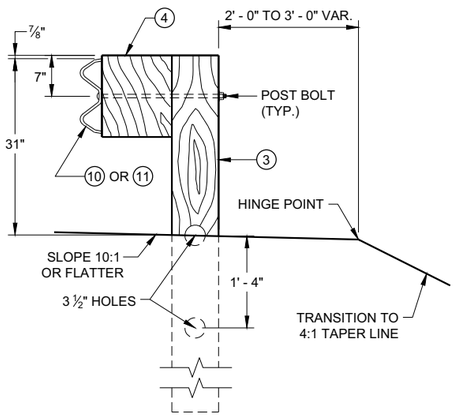
DETAIL "A" (E)



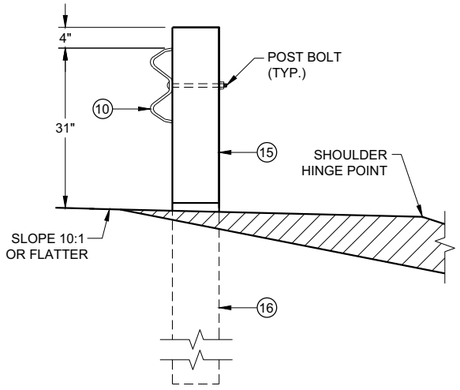
PLAN



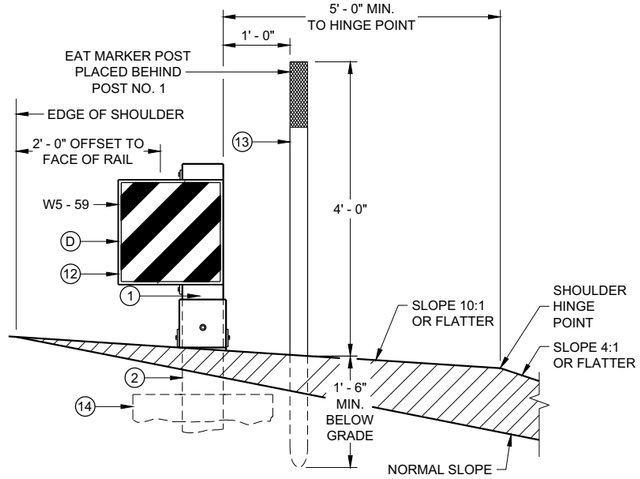
ELEVATION



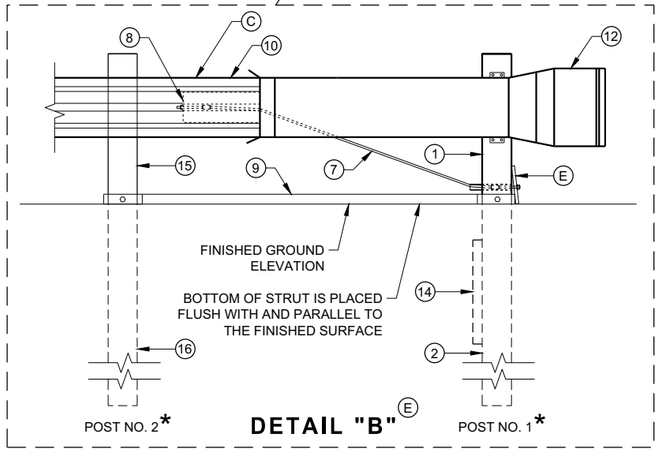
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



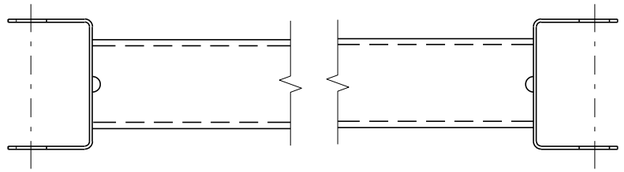
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

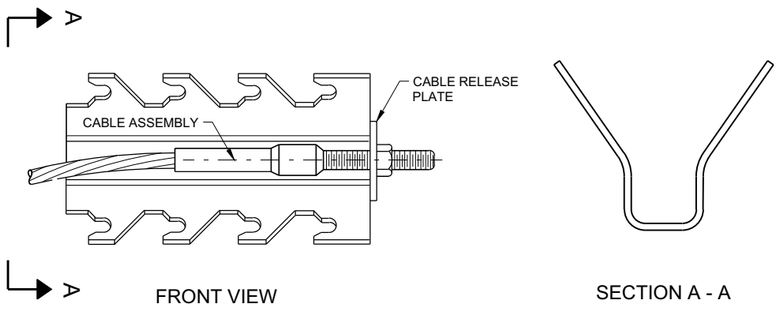
SDD 14B44 - 04a



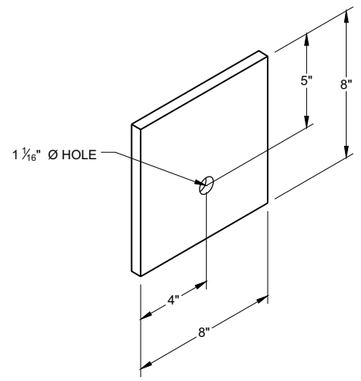
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑧ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

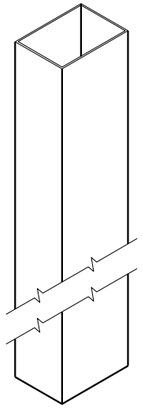
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SDD 14B44 - 04b

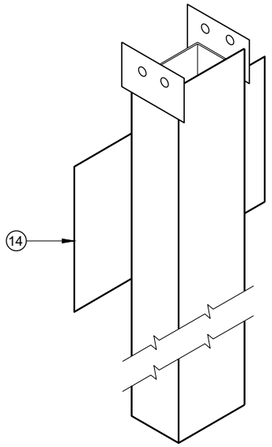
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

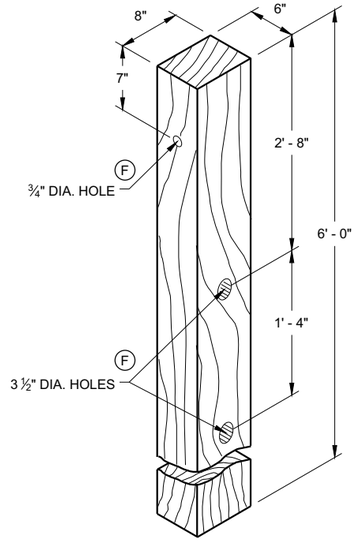
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



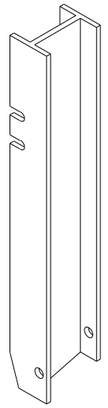
UPPER POST NO. 1 (1) (E)



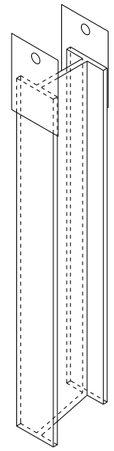
LOWER POST NO. 1 (2) (E)



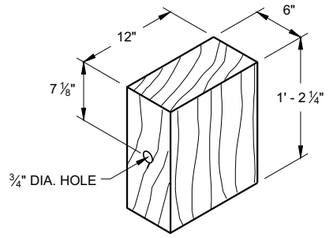
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



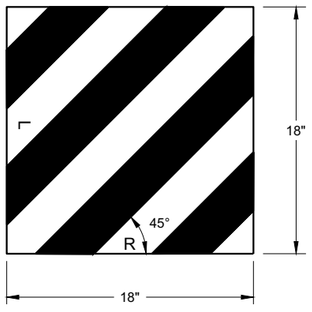
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

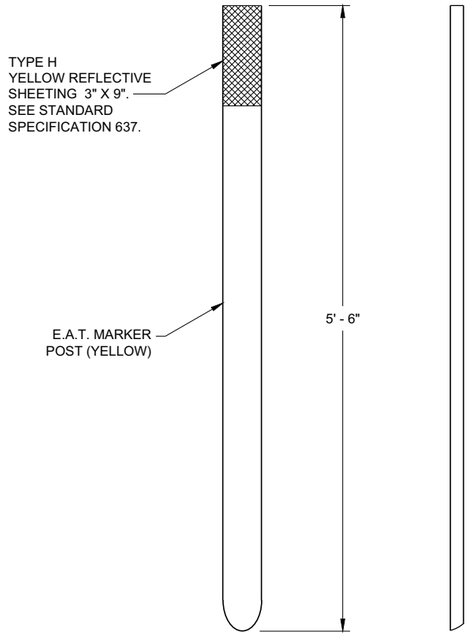


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



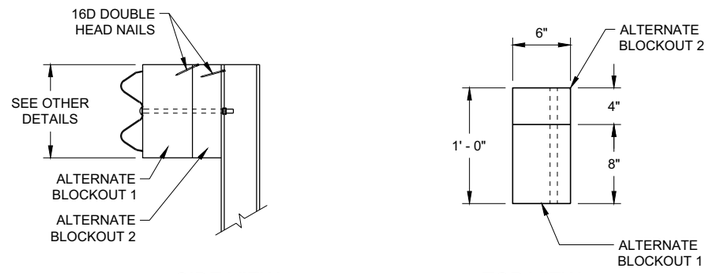
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

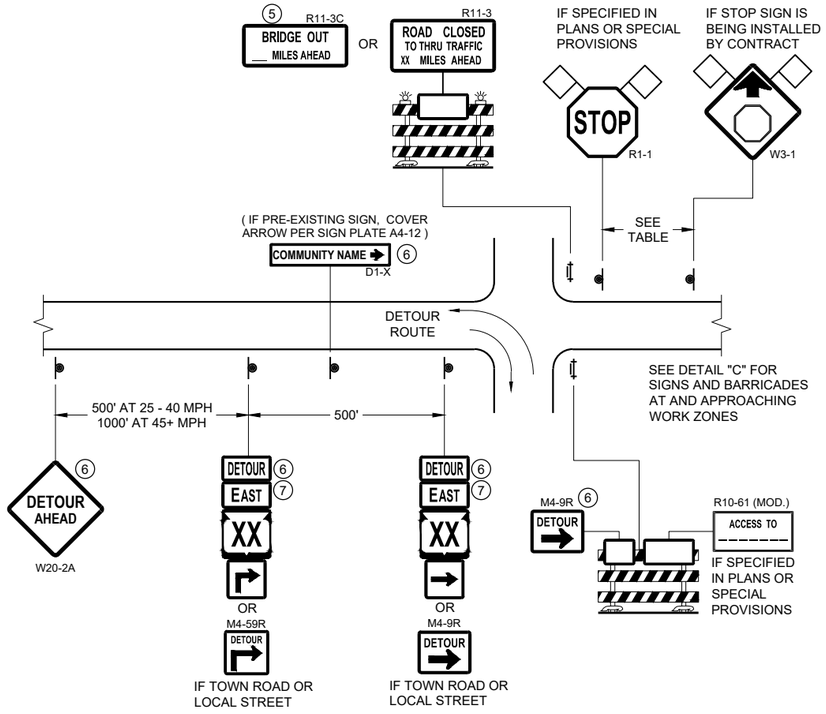
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

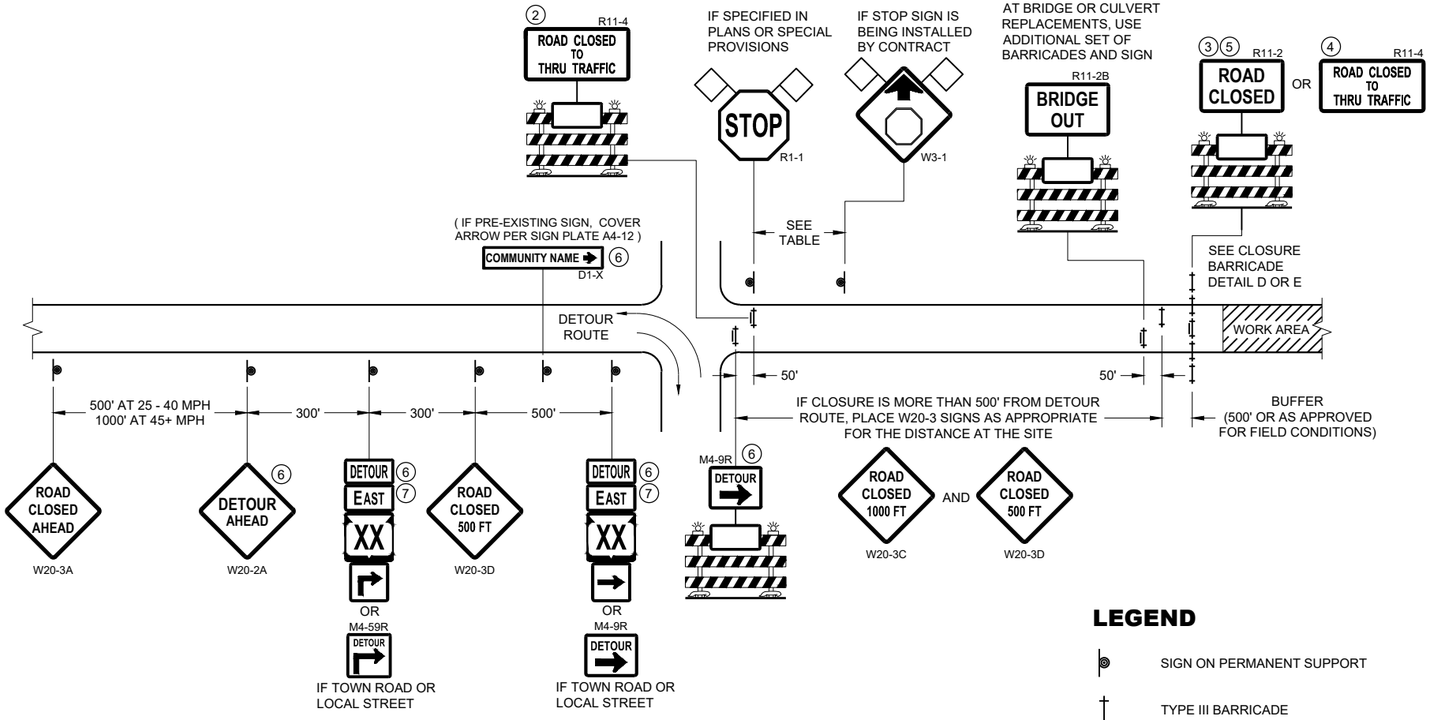
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SDD 14B44 - 04c



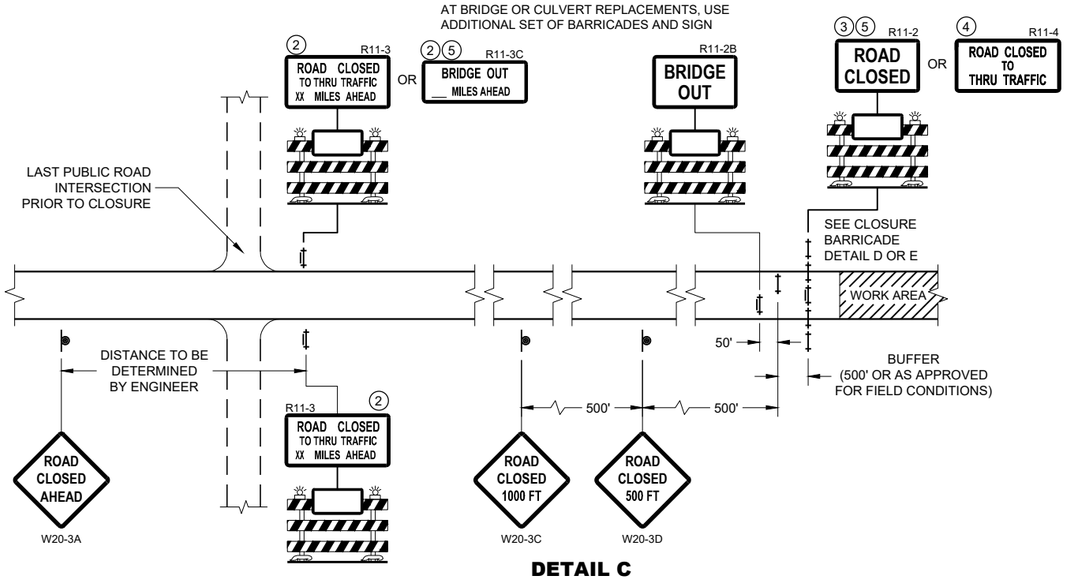
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

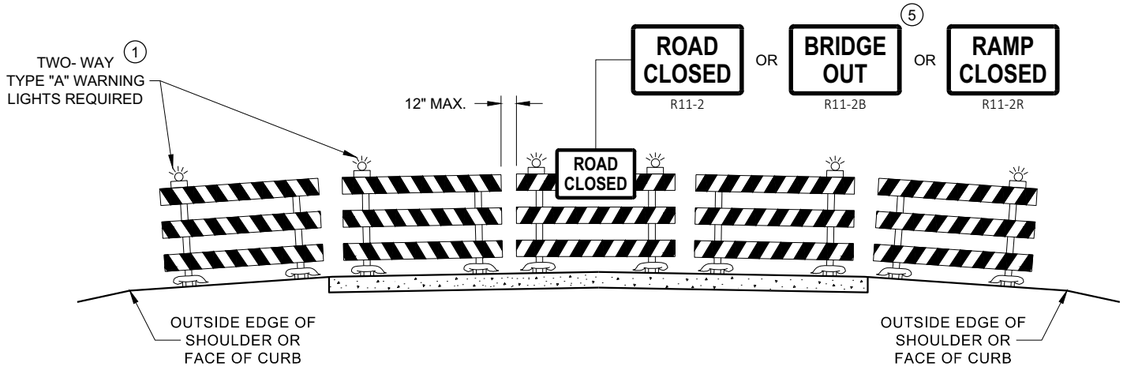
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

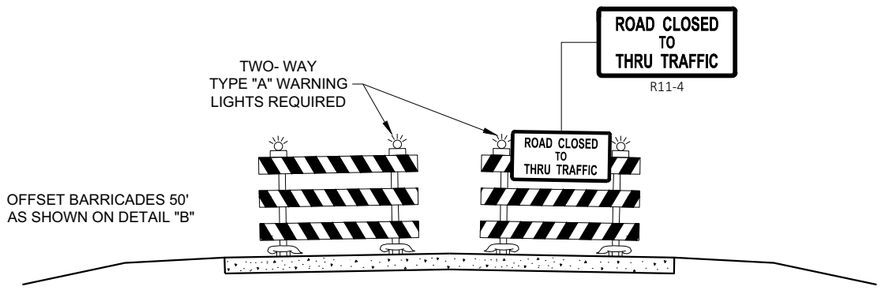
6

SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

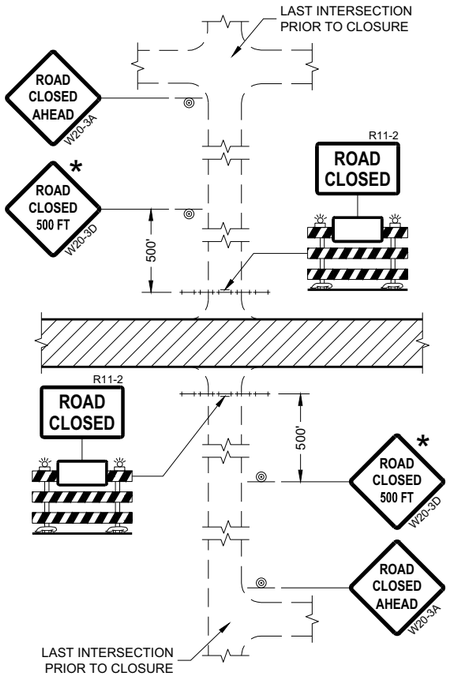
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

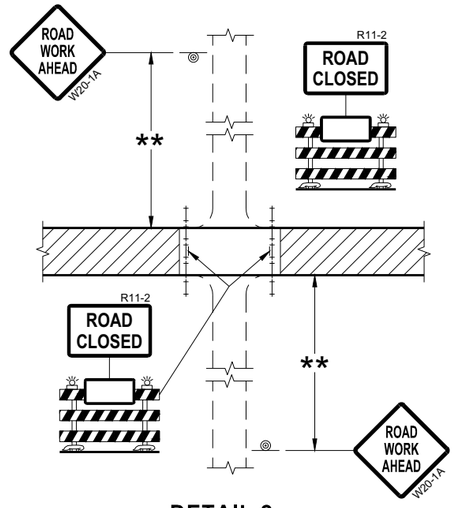
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 08b



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.

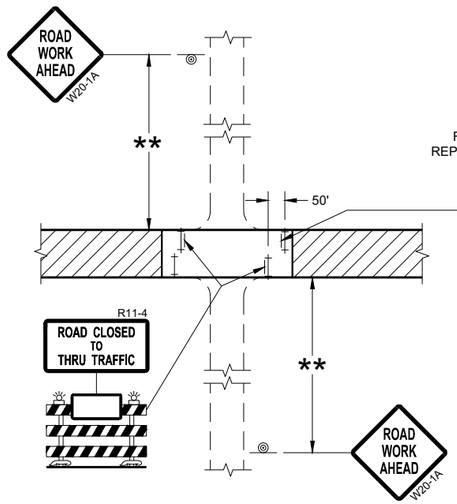
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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.

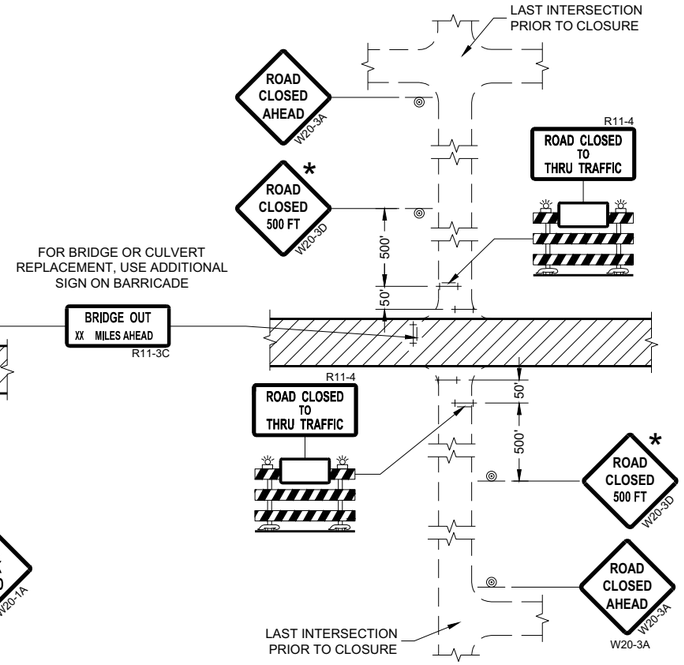
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* 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

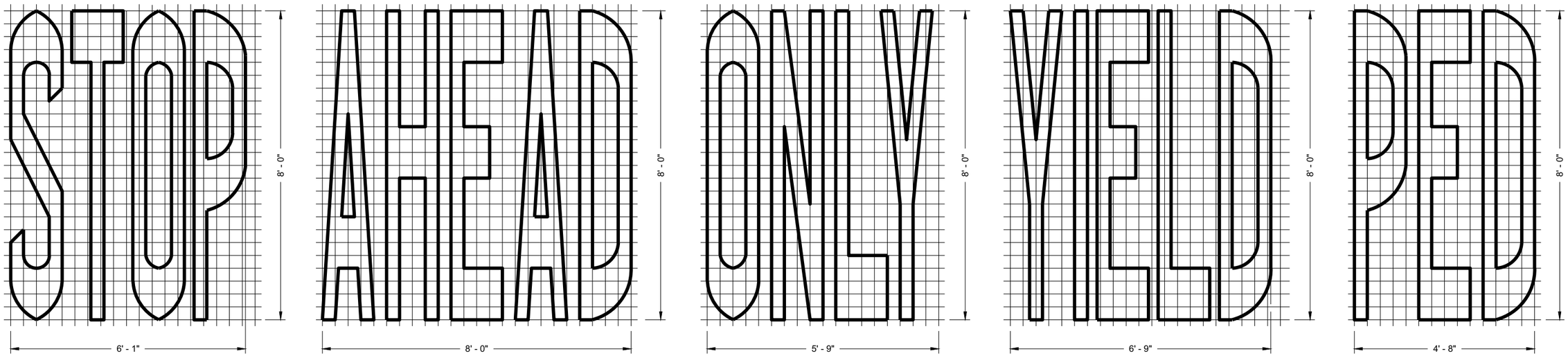
APPROVED
July 2018
DATE

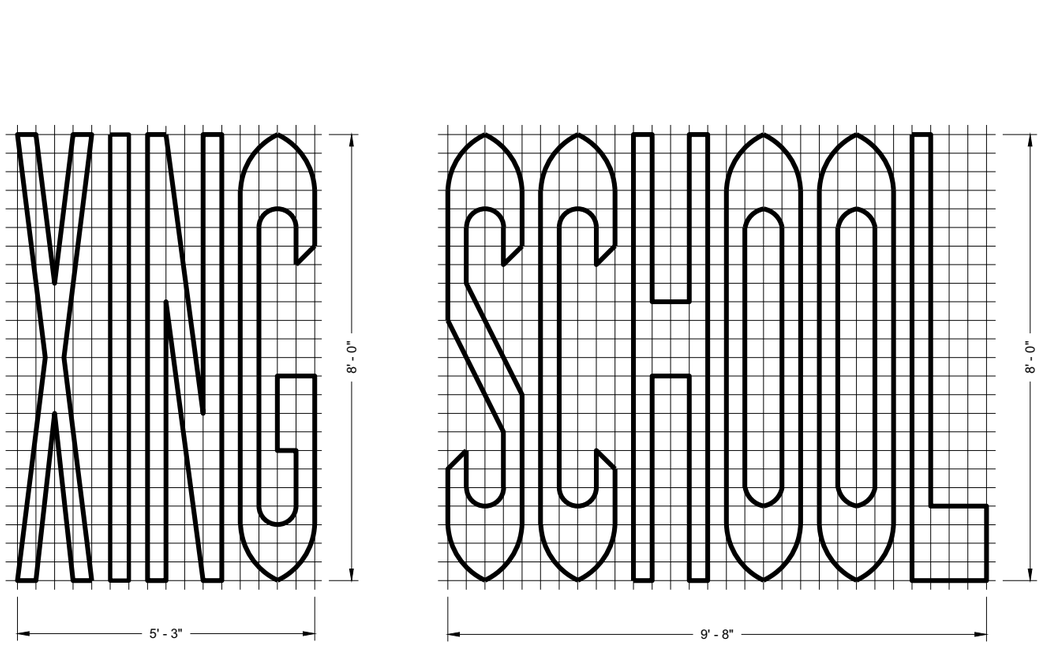
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

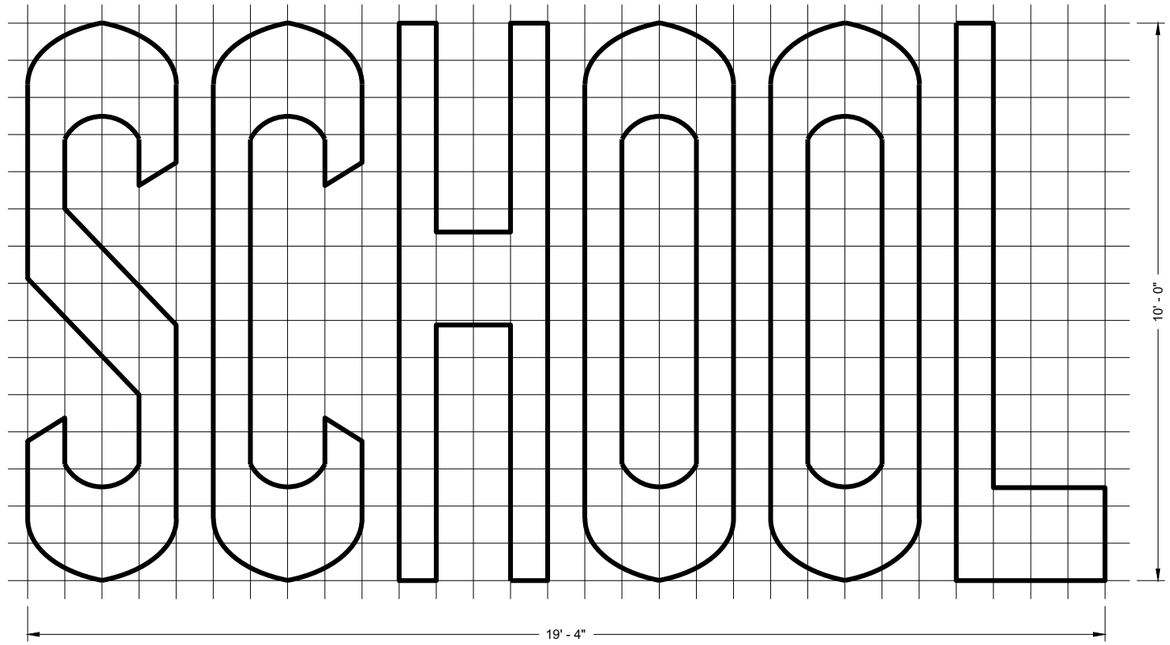
6

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

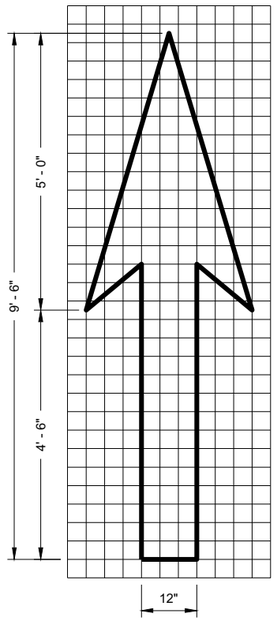
/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

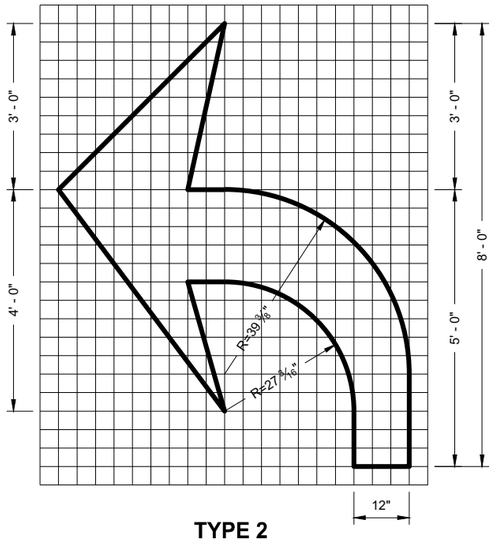
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SDD 15C07 - 15b

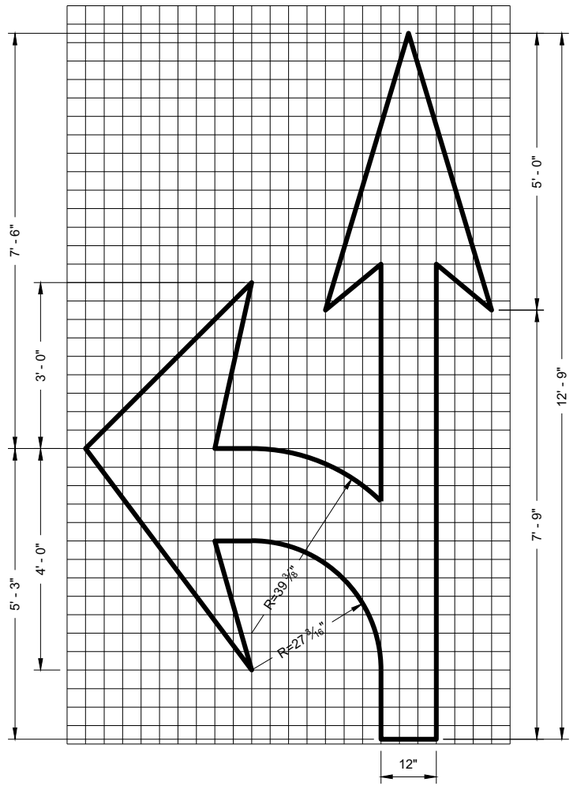
SDD 15C07 - 15b



TYPE 1



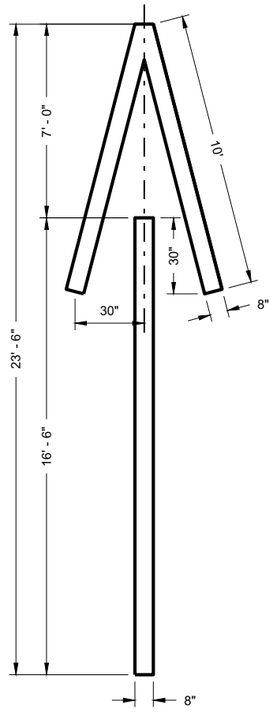
TYPE 2



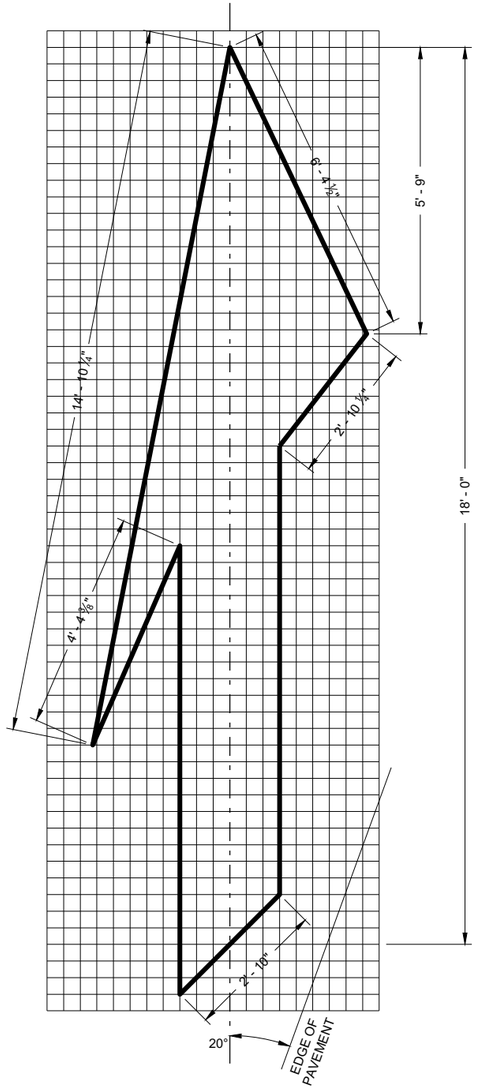
TYPE 3

GENERAL NOTES

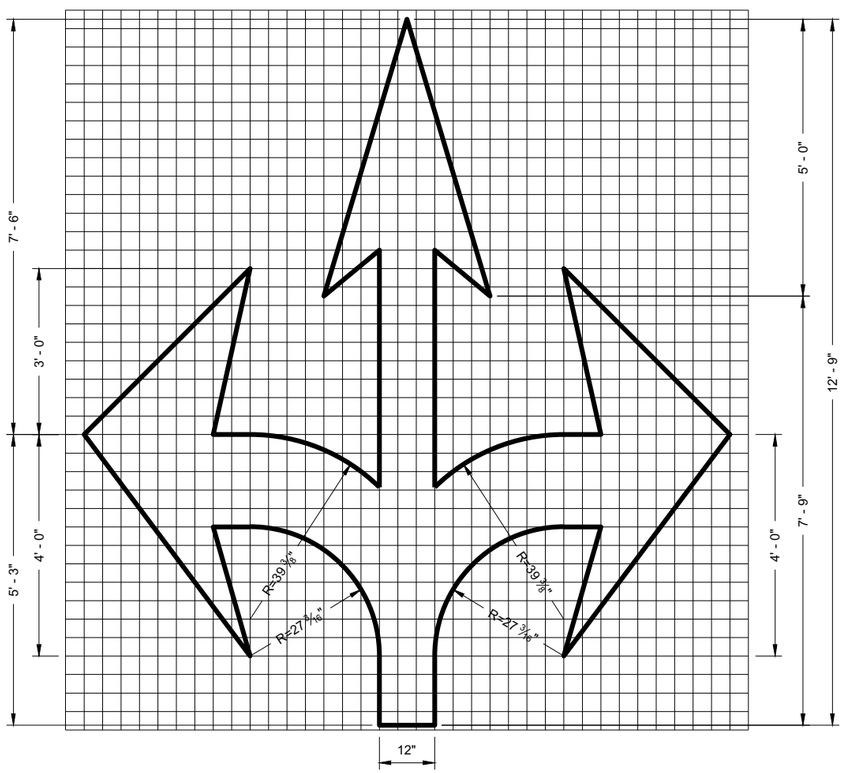
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



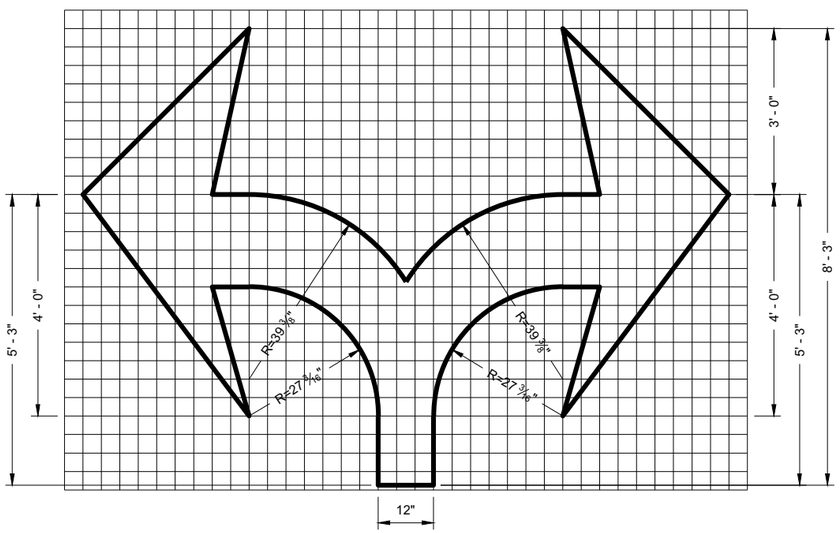
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

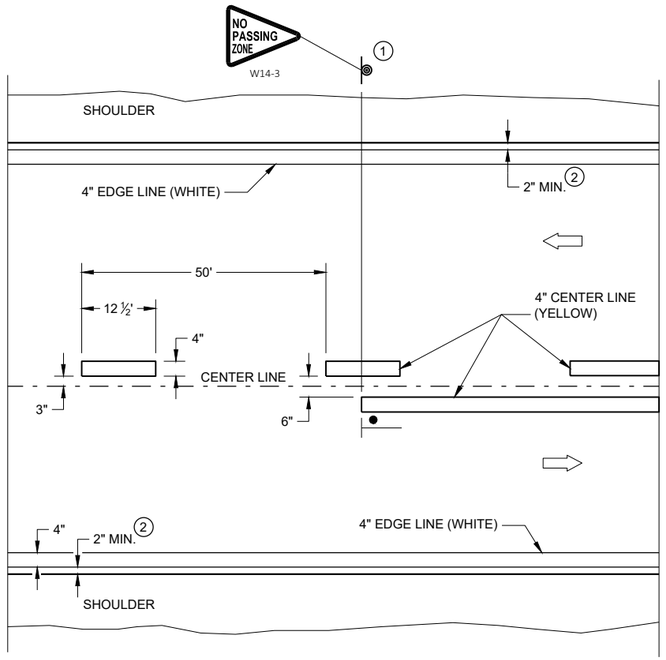
FHWA

6

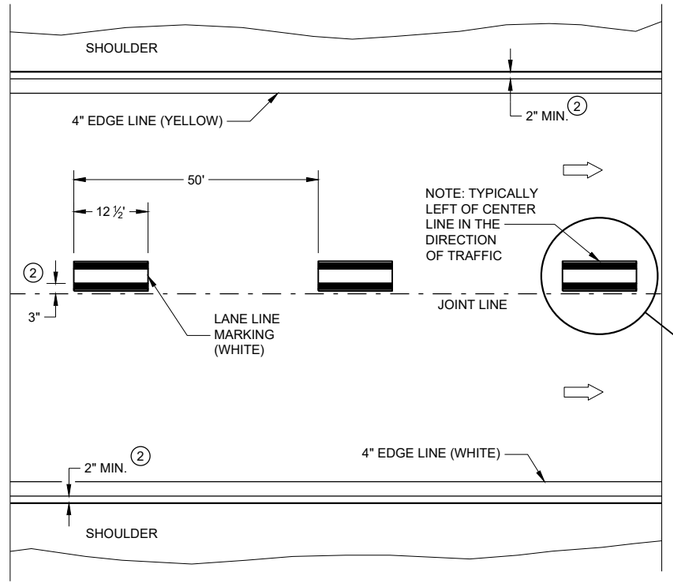
SDD 15C07 - 15c

6

SDD 15C07 - 15c

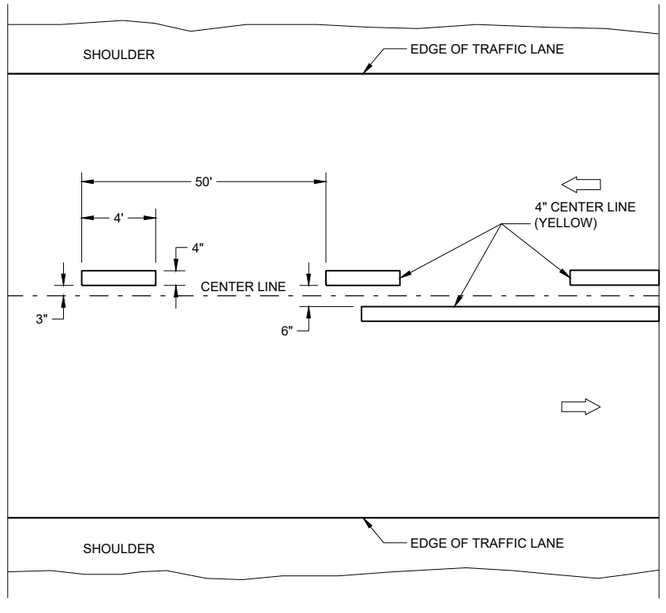


TWO WAY TRAFFIC

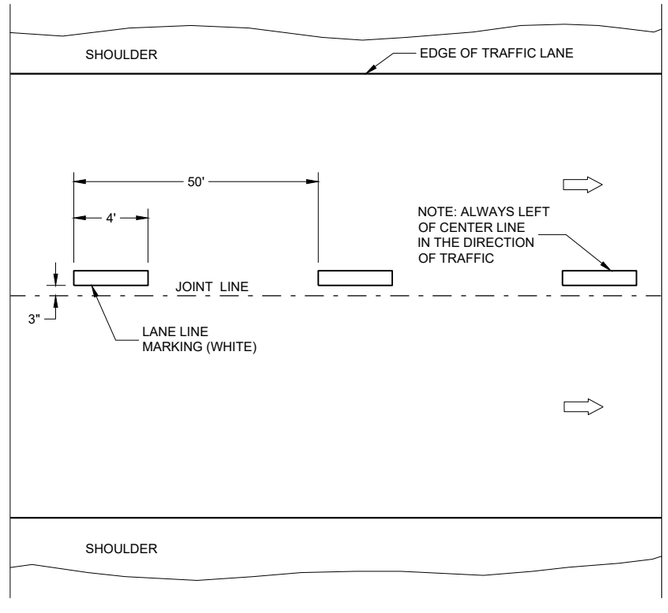


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

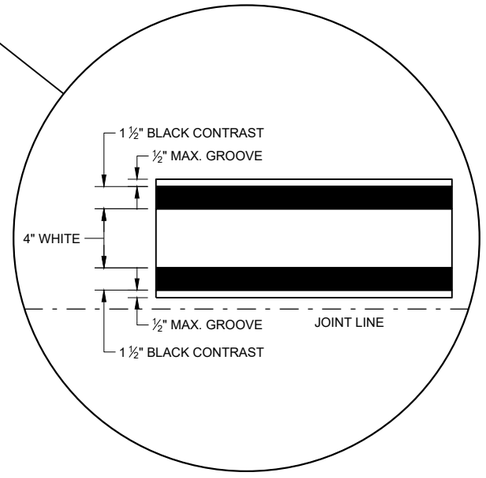
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M ENGINEER

FHWA

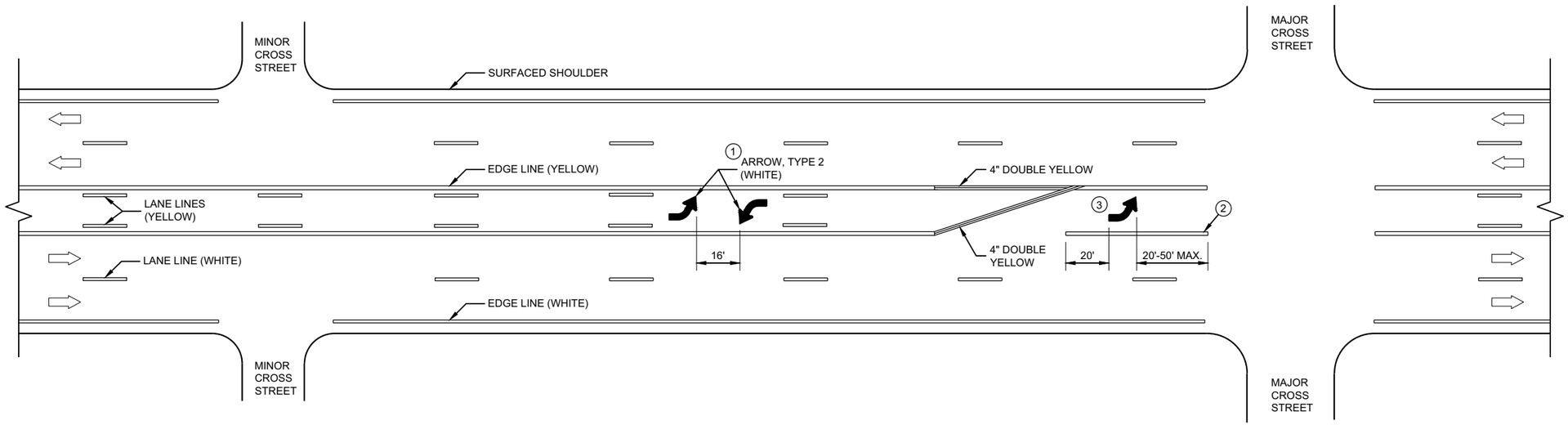
SDD 15C08 - 20a

SDD 15C08 - 20a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

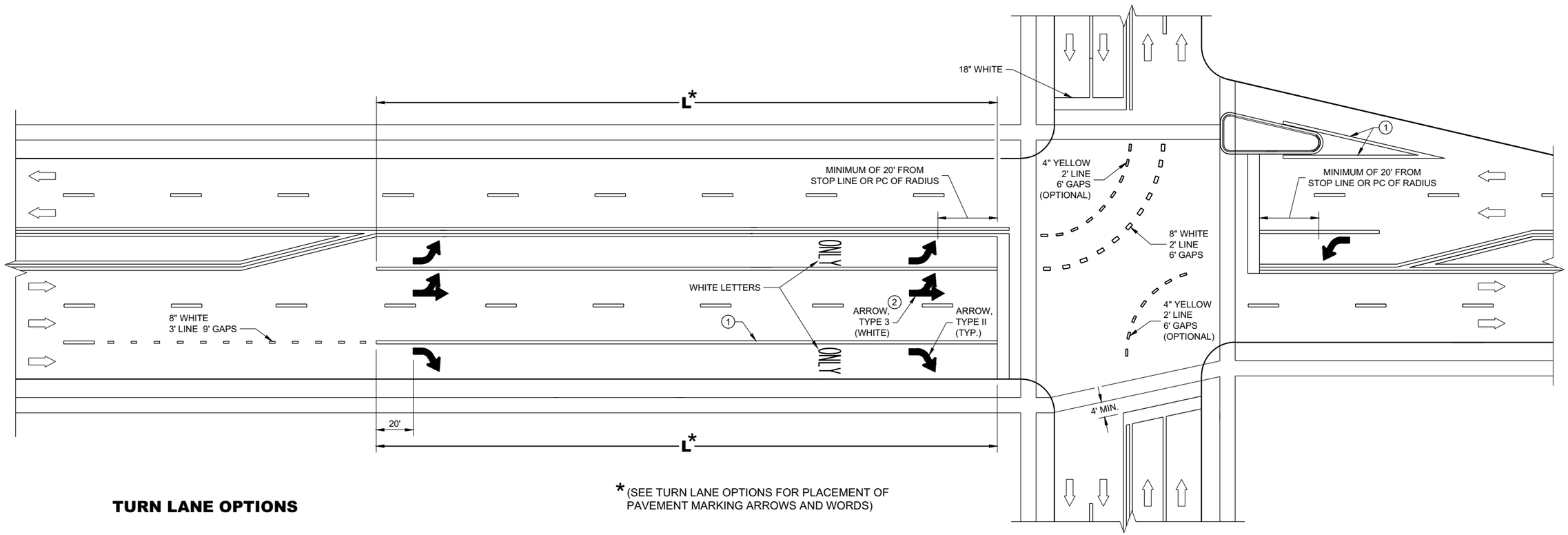
SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

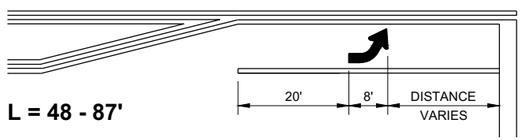
SDD 15C08 - 20b



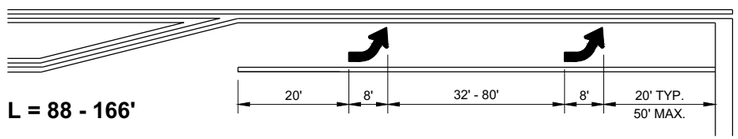
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

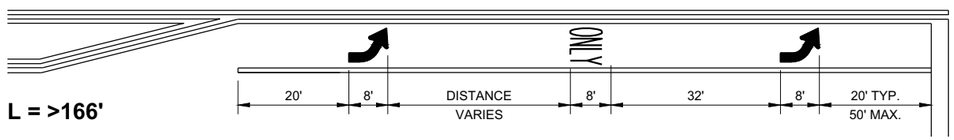
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

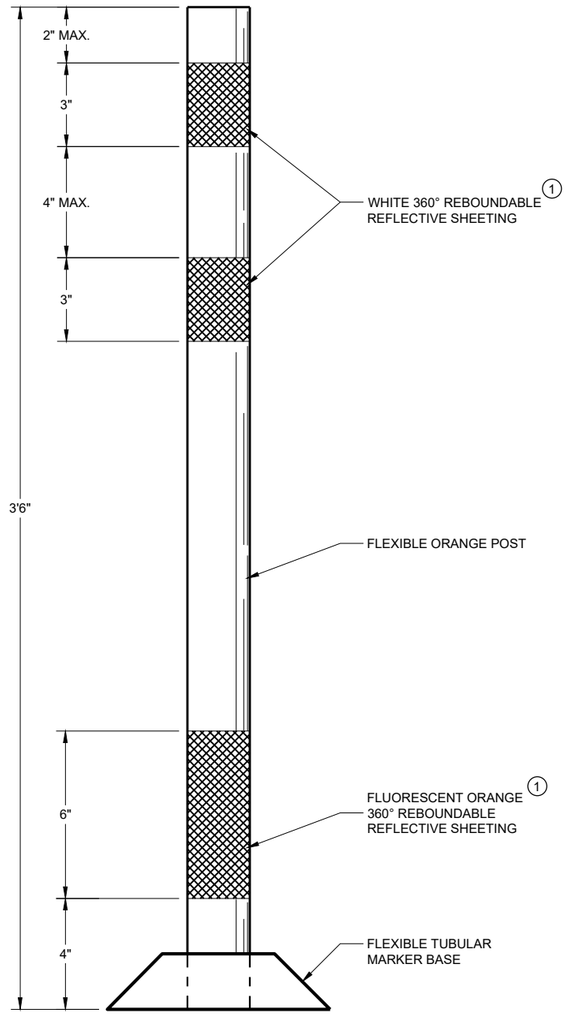
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08 - 20c



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

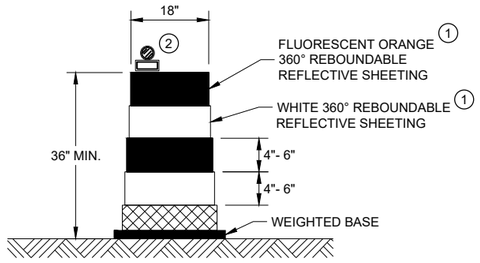
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

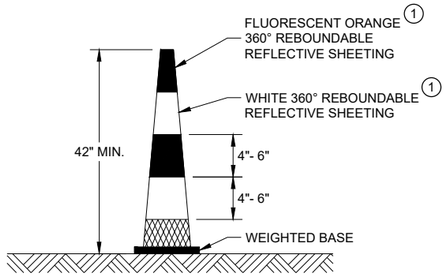
SDD 15C11 - 09a

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.

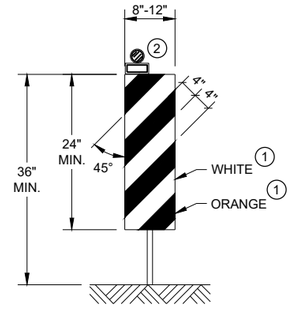


DRUM



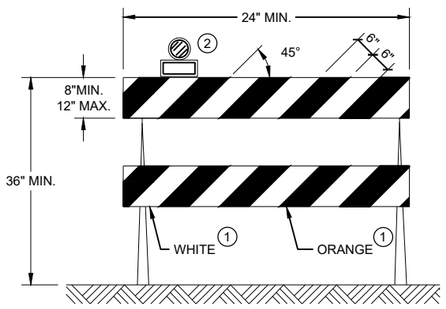
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



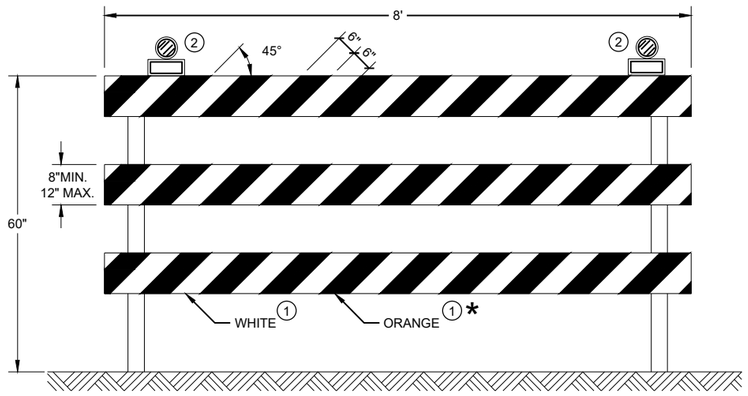
VERTICAL PANEL

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
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

6

SDD15C11 - 09b

6

SDD15C11 - 09b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

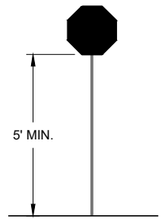
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

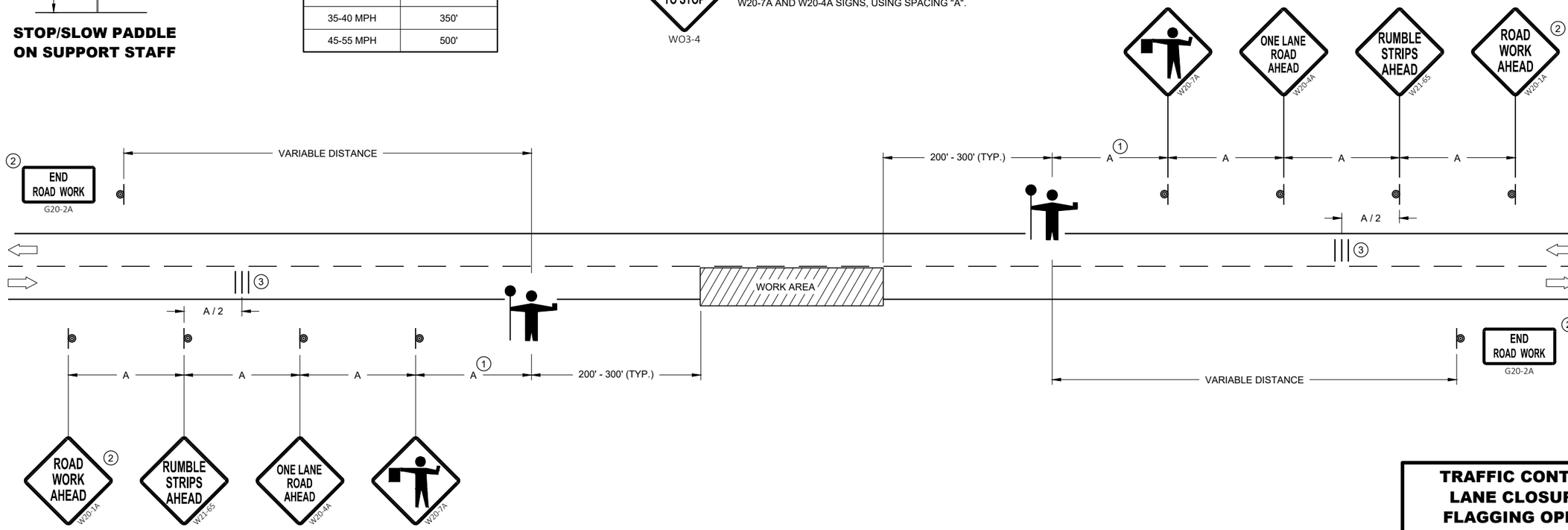
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

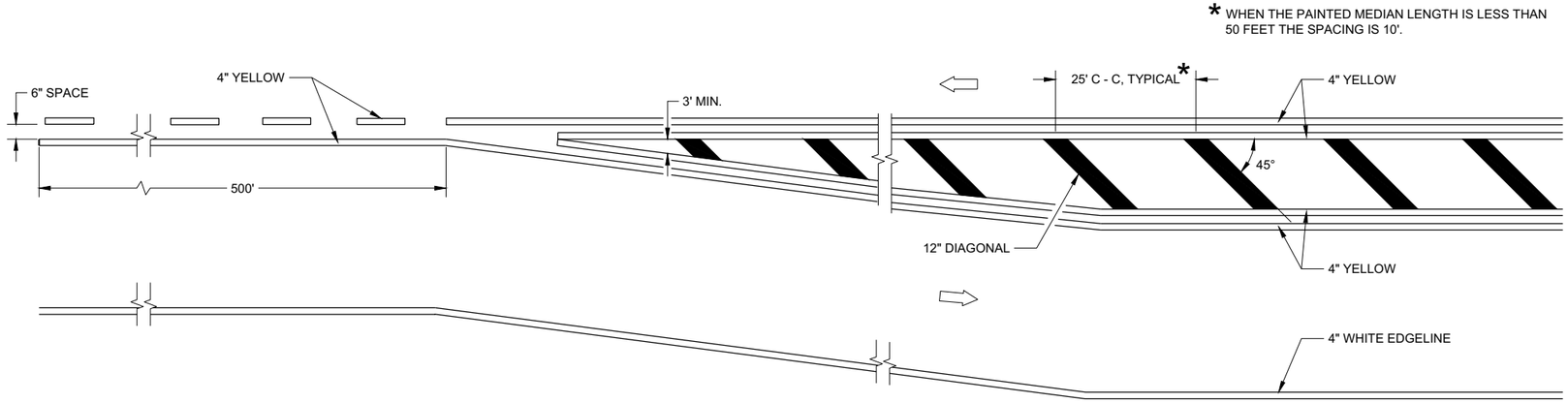
APPROVED
November 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15C12 - 08

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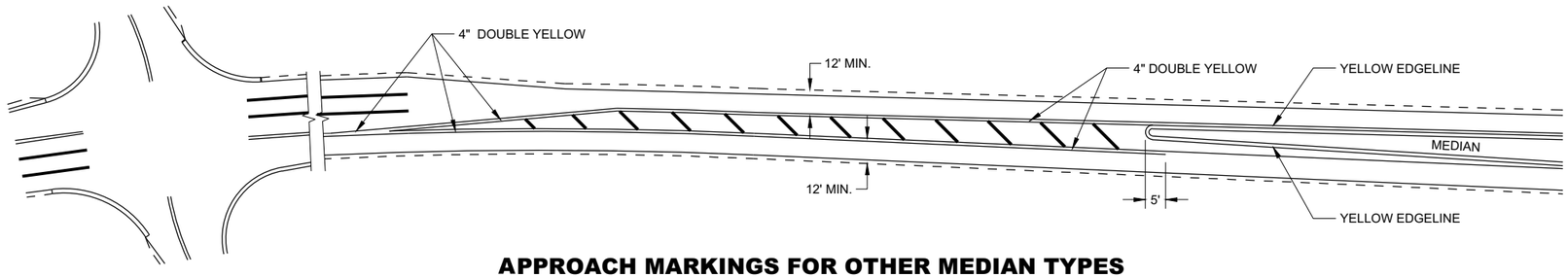


MEDIAN ISLAND DETAIL

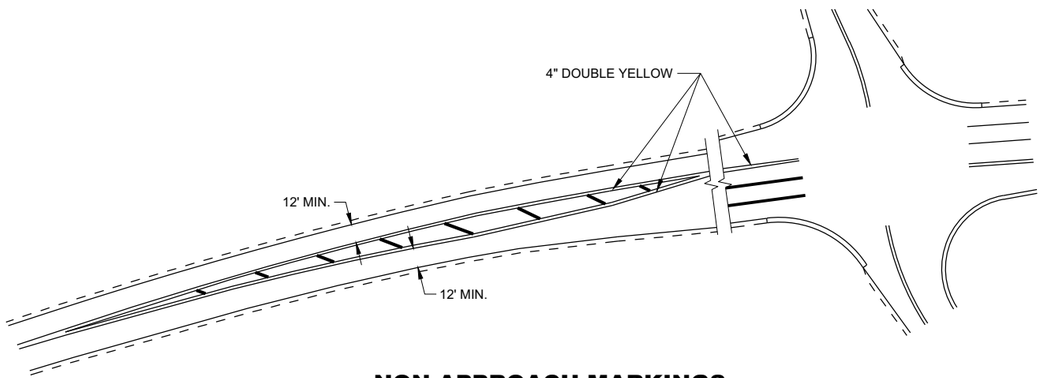
GENERAL NOTES

DIAGONALS ARE OPTIONAL WHEN PAINED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
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STATE SIGNING AND MAF ENGINEER

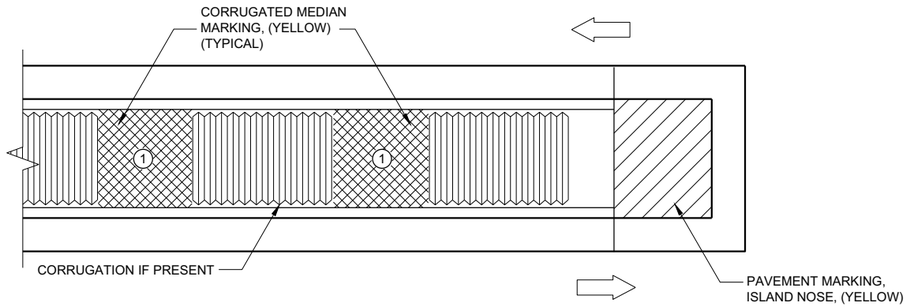
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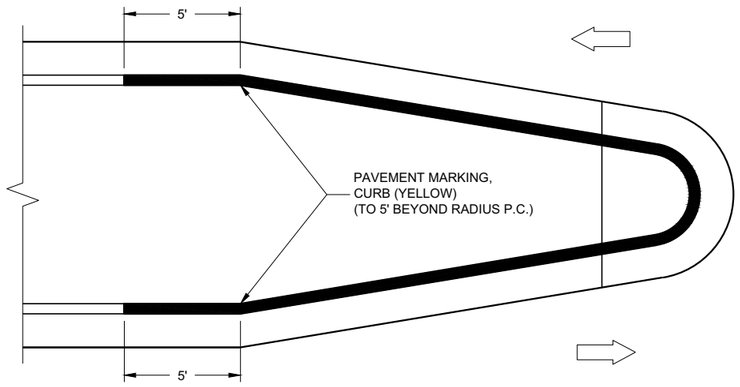
SDD 15C18 - 05a

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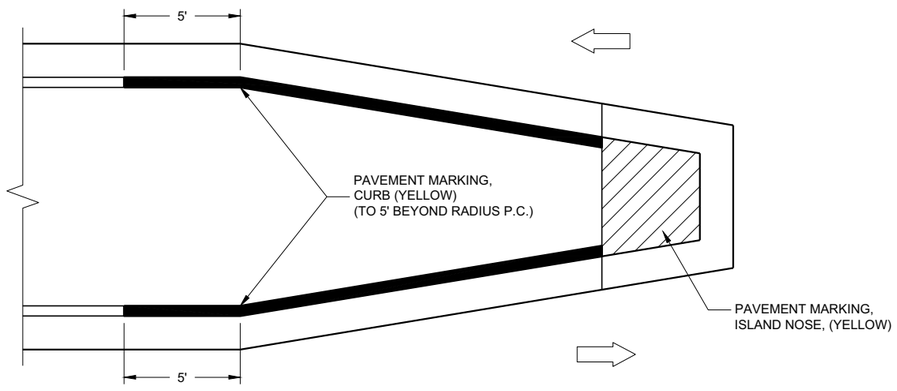
SDD 15C18 - 05a



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.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
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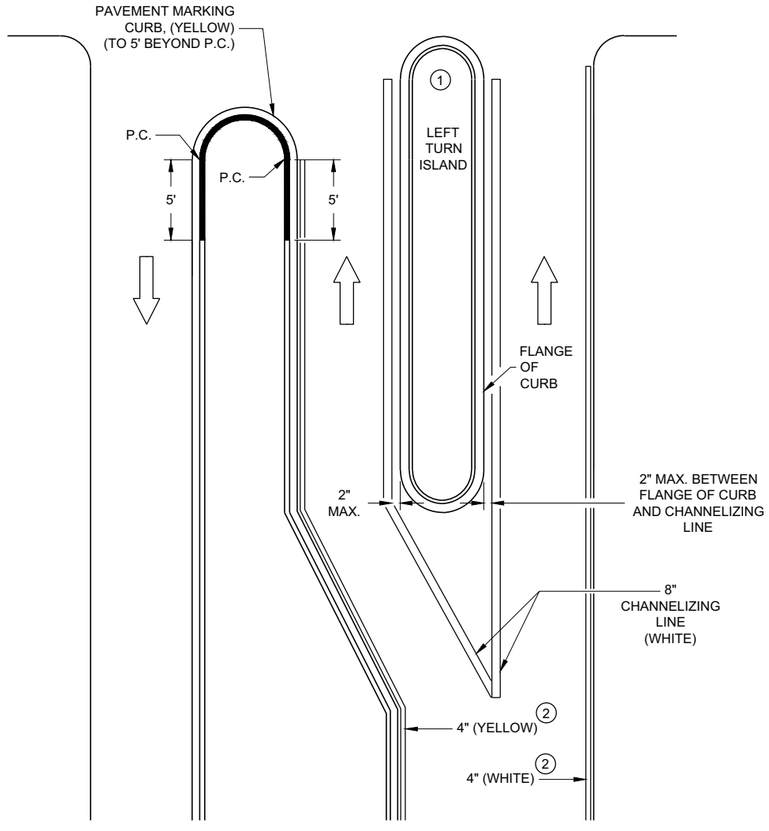
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SDD 15C18 - 05b

6

SDD15C18 - 05b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

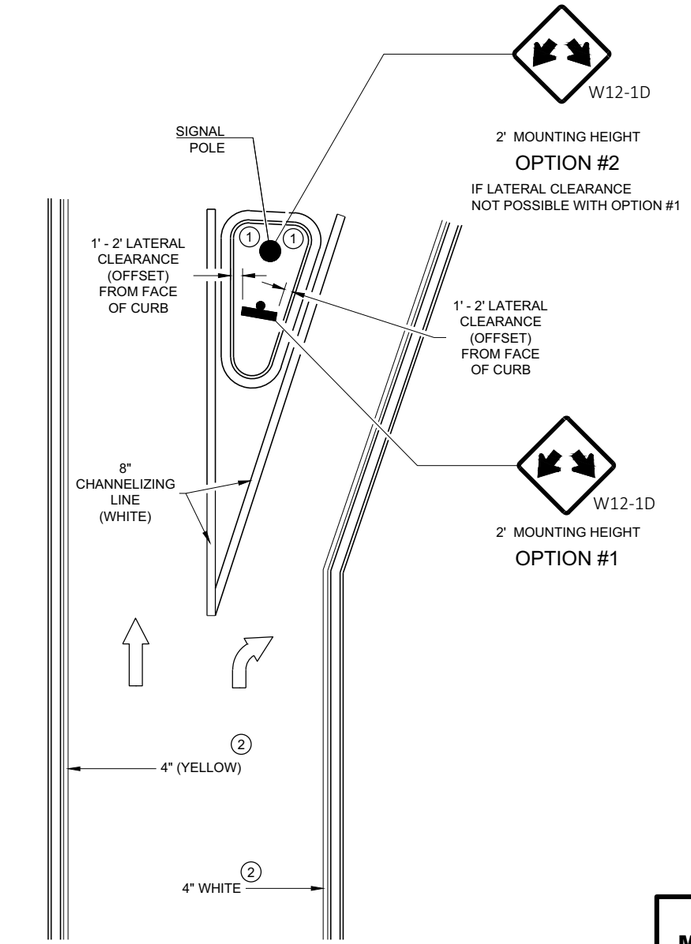
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

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LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

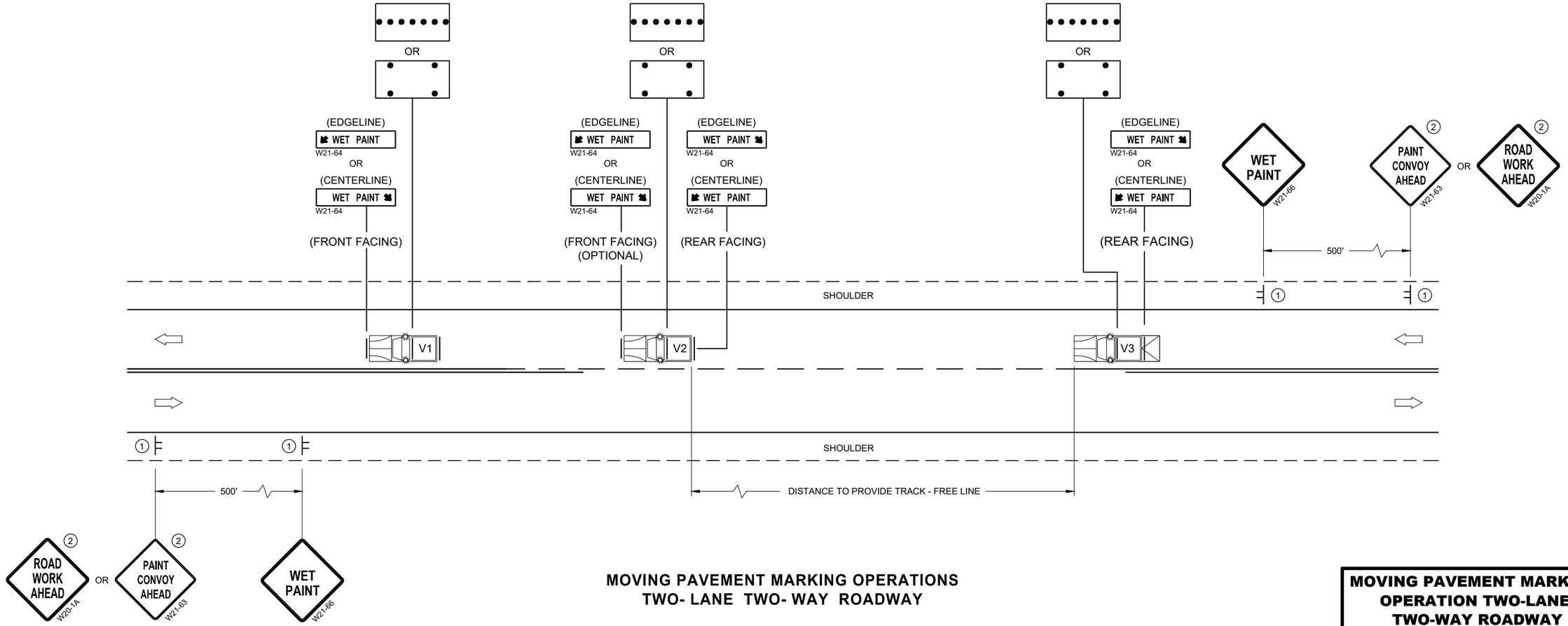
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

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SDD 15C19 - 06a

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SDD 15C19 - 06a

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (MERGE)

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

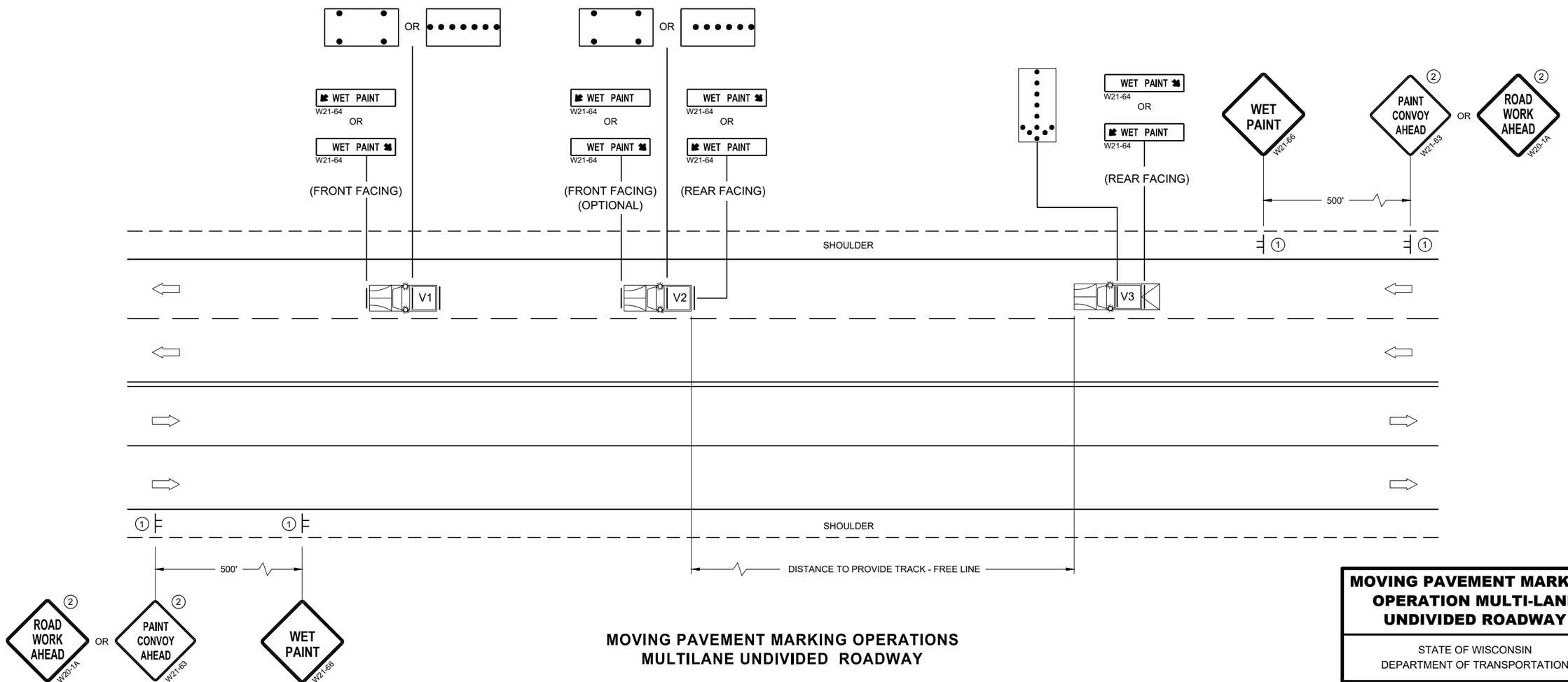
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

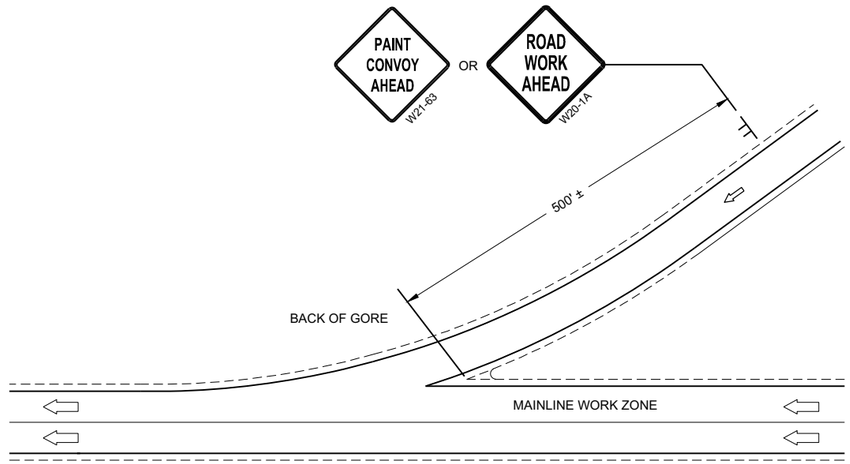
APPROVED
November 2019 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
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SDD 15C19 - 06b

LEGEND

- V1 MARKING VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

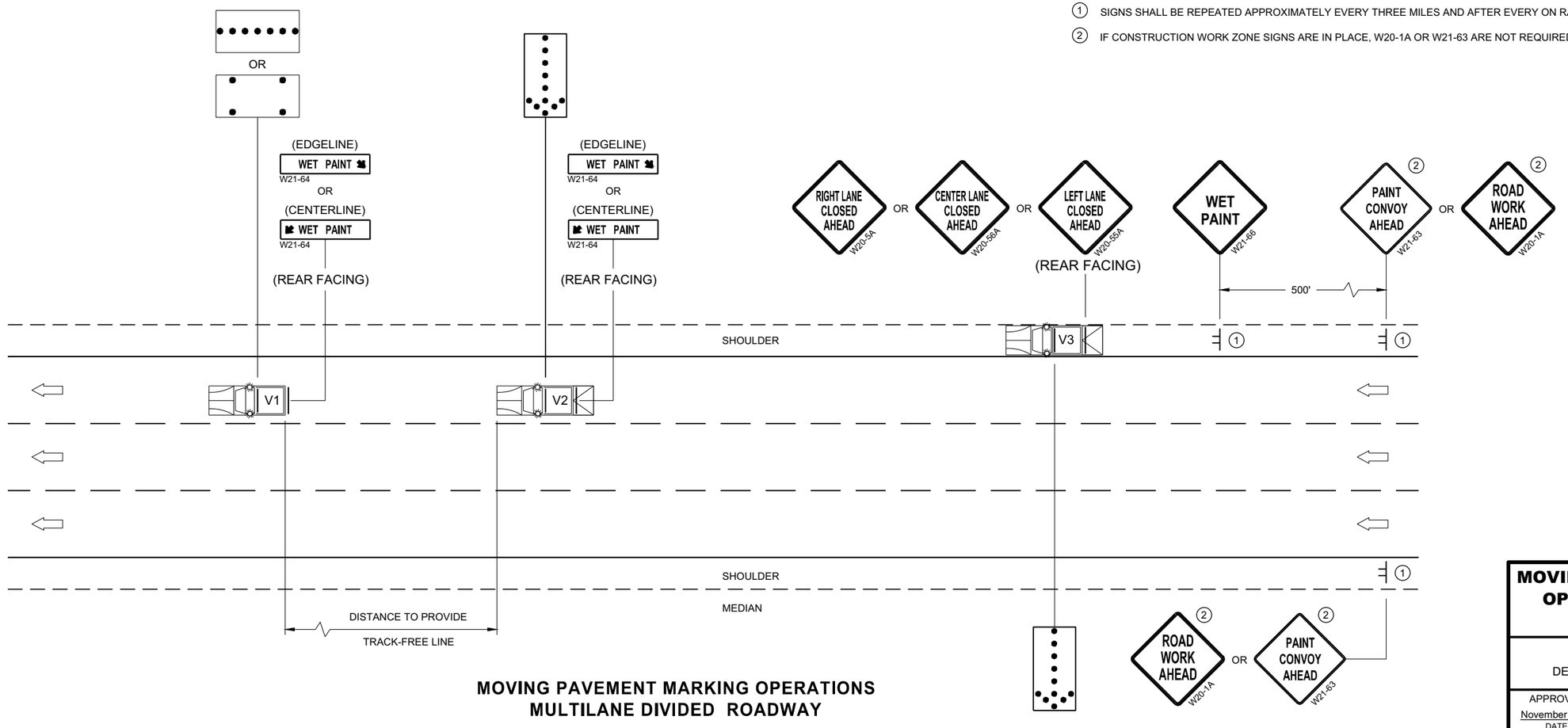
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
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GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

(1) USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT PLACEMENT.

** IF POSTED SPEED IS 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN).

LEGEND

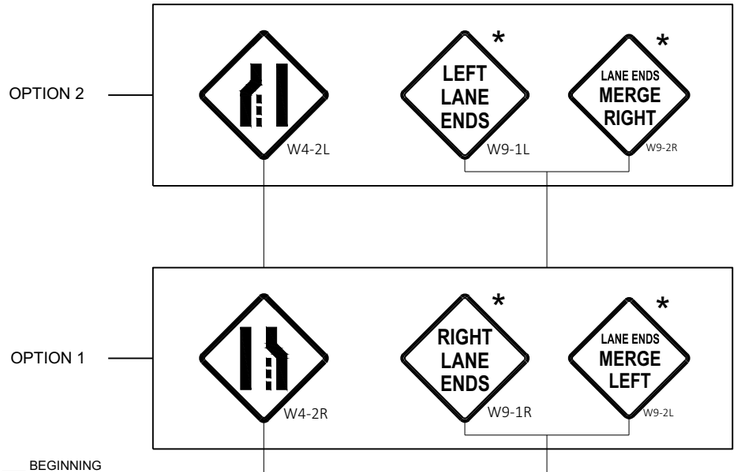
A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

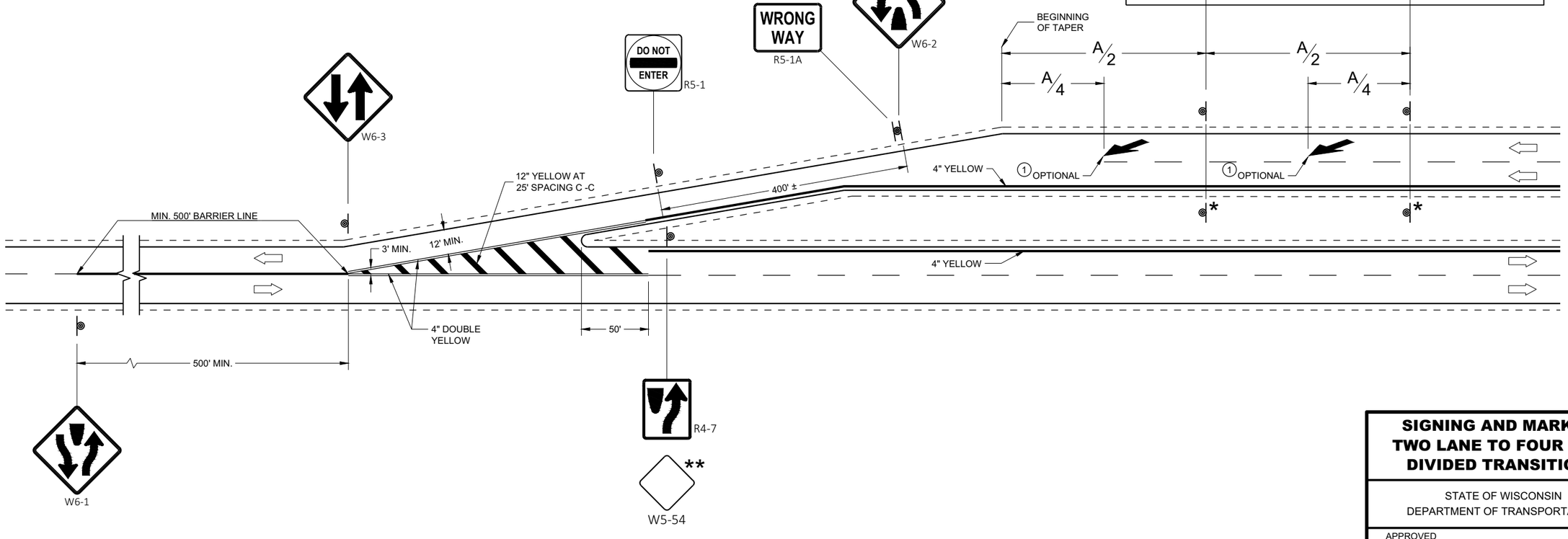
SIGN MOUNTED ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	325'
30	460'
35	565'
40	670'
45	775'
50	885'
55	990'
65	1200'
70	1250'





SIGNING AND MARKING TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAR ENGINEER
FHWA

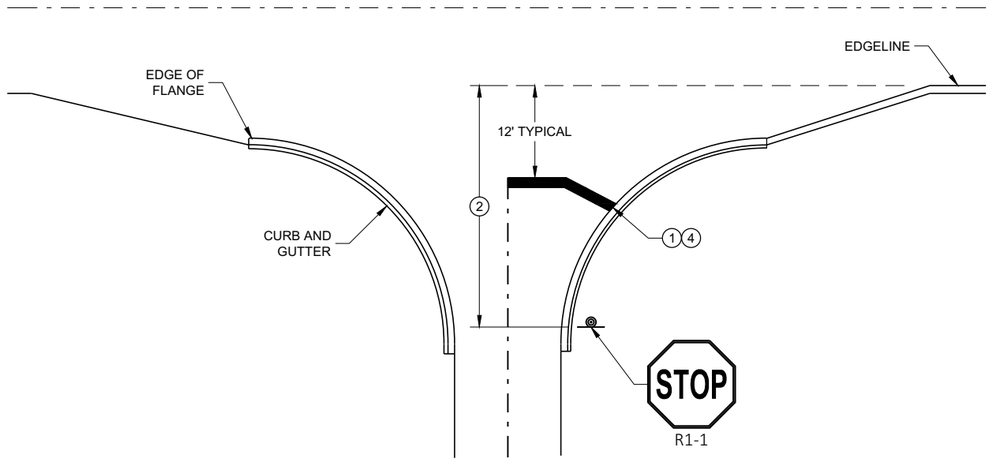
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SDD 15C21 - 10

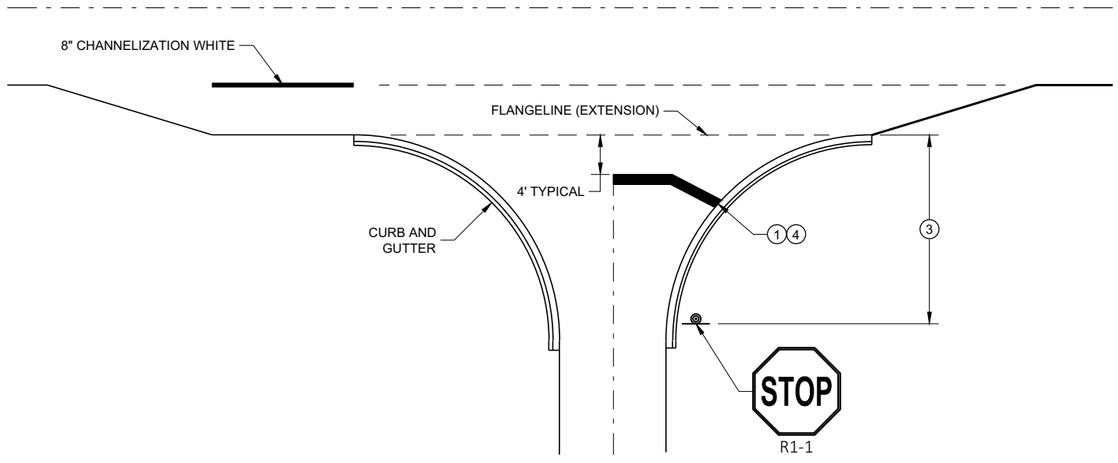
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

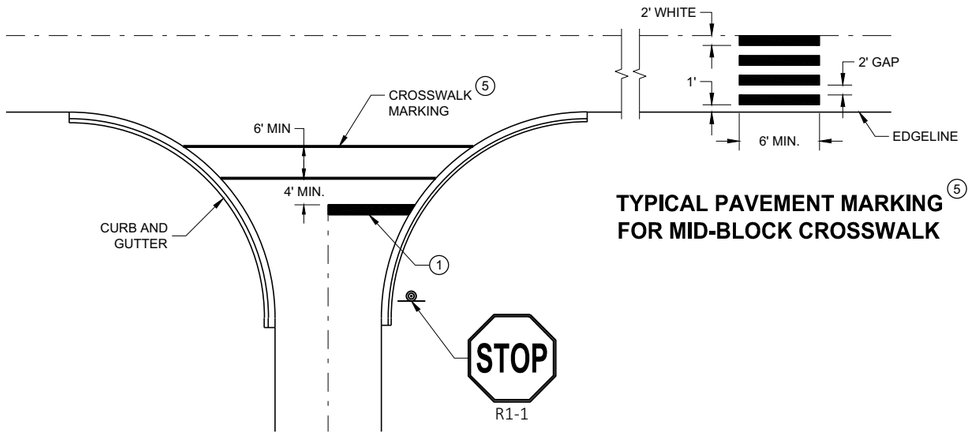
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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

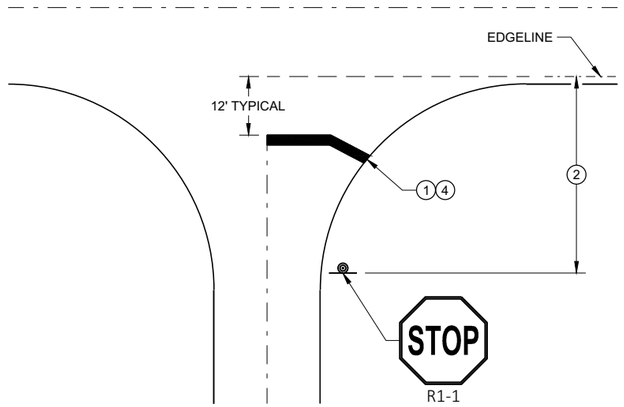


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



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

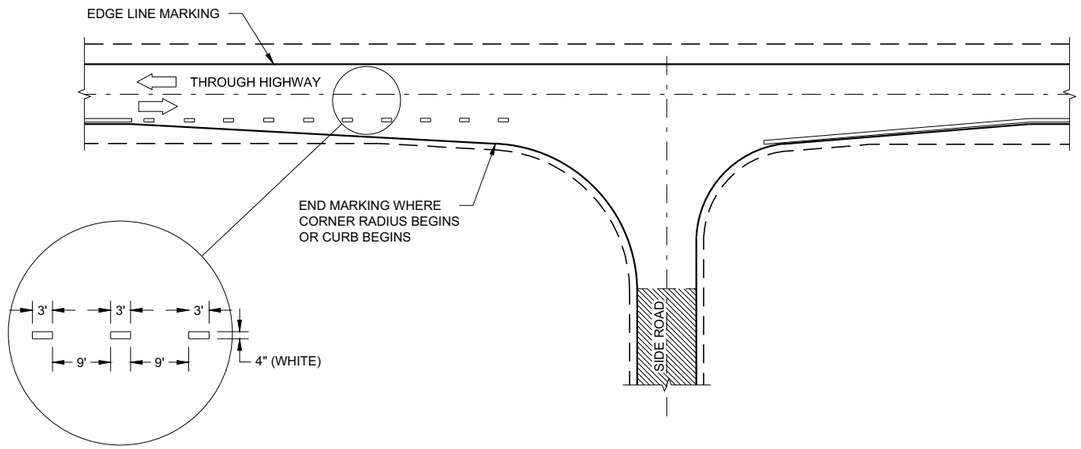
APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

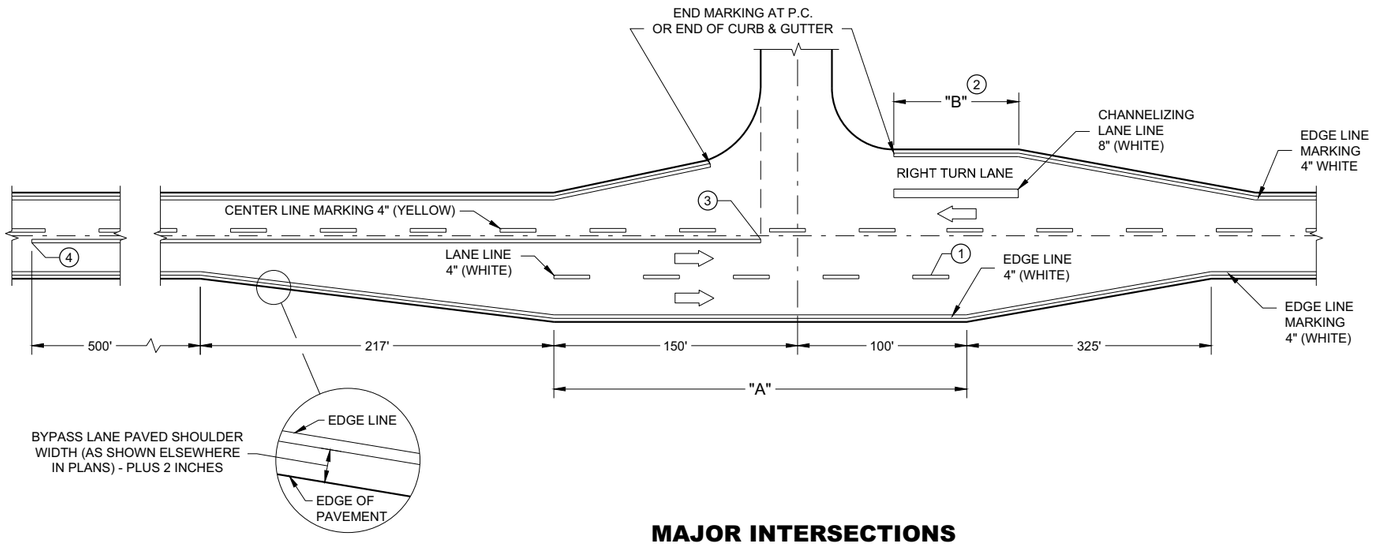
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SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

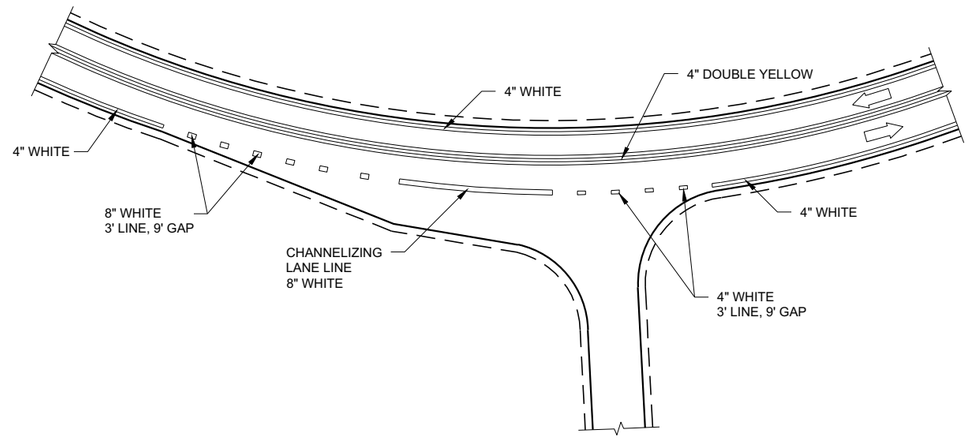
GENERAL NOTES

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.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

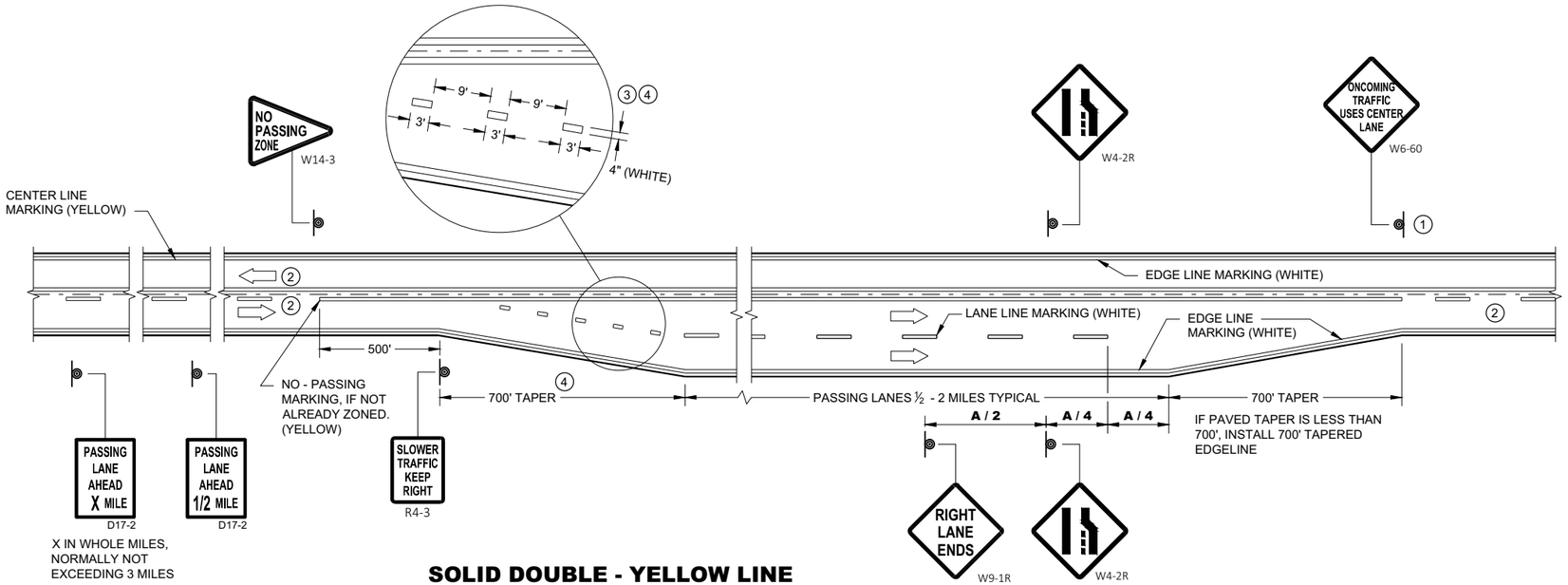
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04a

6

SDD 15C35 - 04a



SOLID DOUBLE - YELLOW LINE
(THROUGHOUT ENTIRE PASSING / CLIMBING LANE)

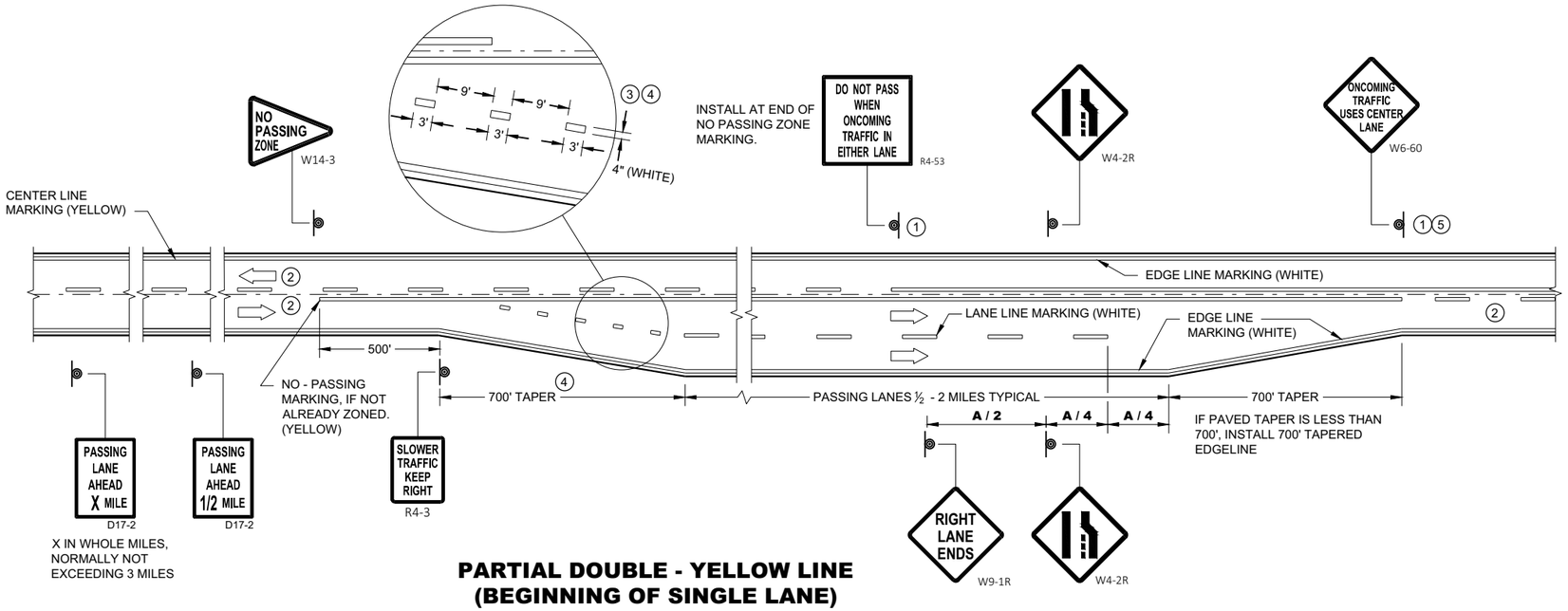
GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
5. REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990



PARTIAL DOUBLE - YELLOW LINE
(BEGINNING OF SINGLE LANE)

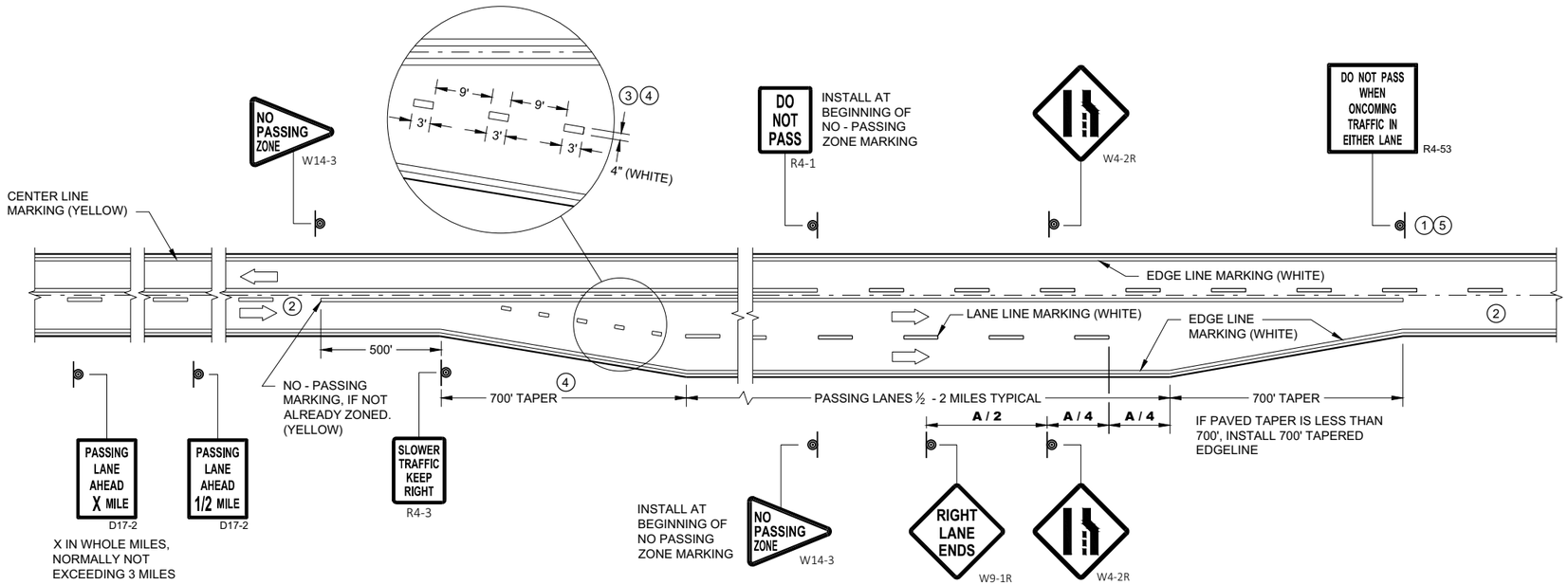
PAVEMENT MARKING & SIGNING
(CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

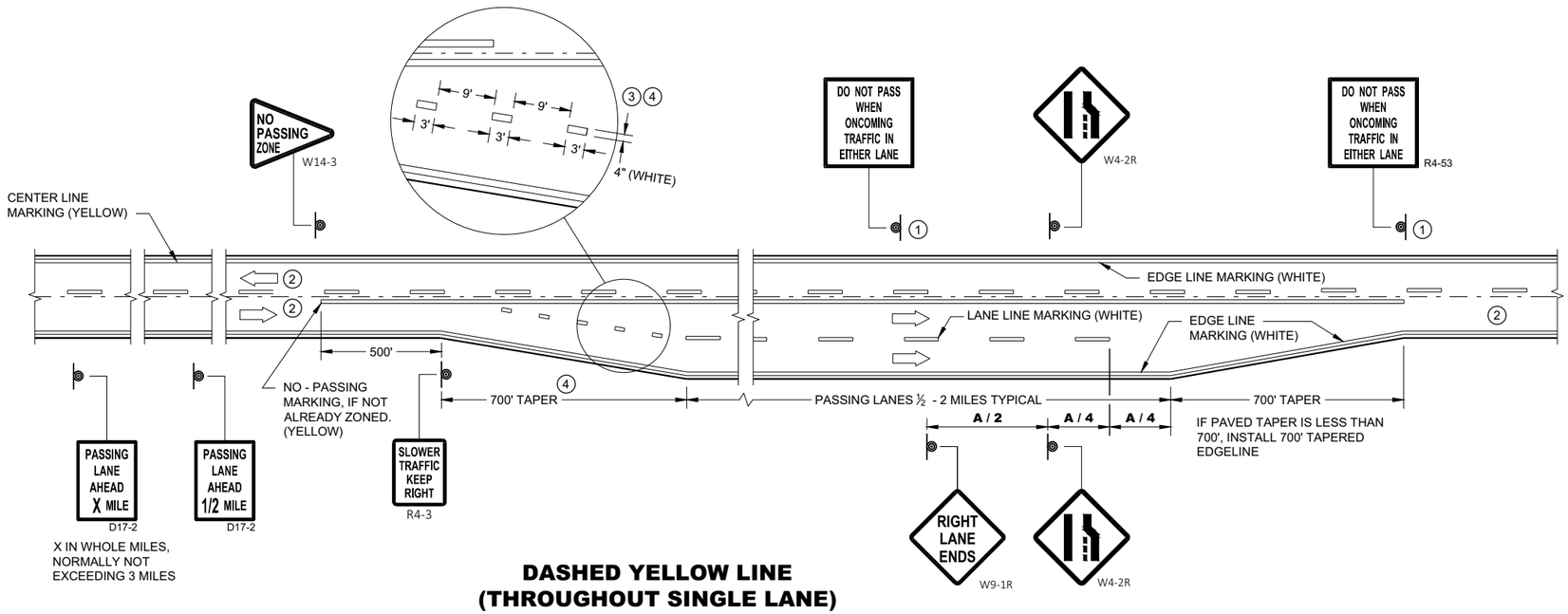
SDD 15C35 - 04b

6

SDD 15C35 - 04b



SOLID DOUBLE - YELLOW LINE
(END OF SINGLE LANE)



DASHED YELLOW LINE
(THROUGHOUT SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
5. REPEAT EVERY ONE MILE UP UNTIL NO PASSING ZONE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

PAVEMNET MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER
FHWA

SDD 15C35 - 04c

SDD 15C35 - 04c

LEGEND

SIGN ON PERMANENT SUPPORT

DELINEATOR, FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

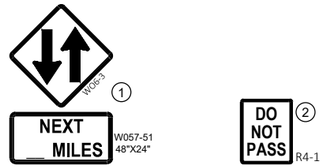
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

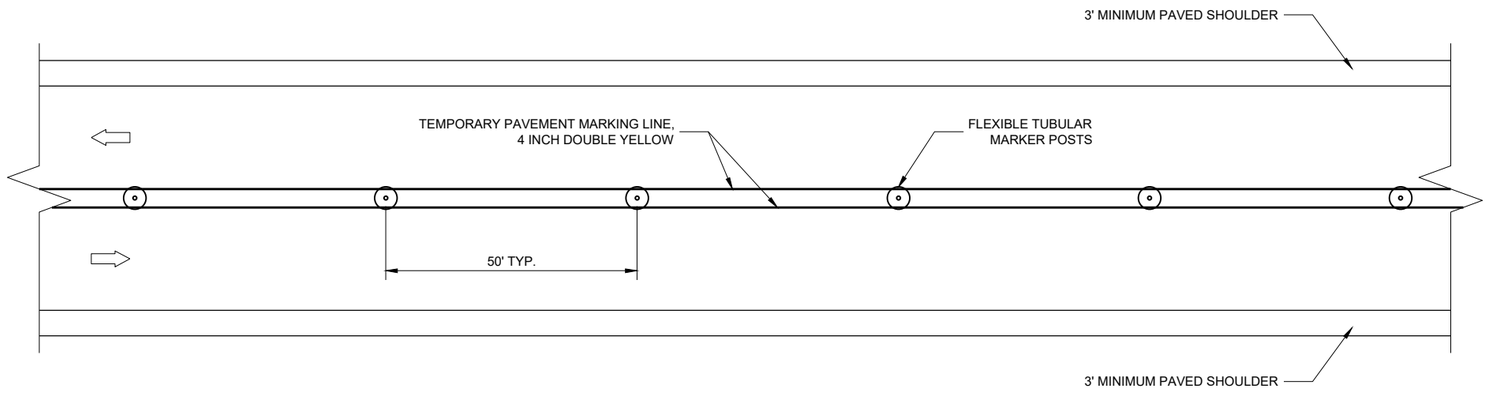
A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50 FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING LINE, 4 INCH DOUBLE YELLOW.



1. THE WO6-3 AND WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND / OR 500 FEET BEYOND ANY SIDE ROAD. THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN THE SIGNS.

2. CONVENTIONAL: 24" X 30"
   FREEWAY AND EXPRESSWAY: 36" X 48"



TWO LANE, TWO WAY OPERATION

6

6

SDD 15D06 - 05

SDD 15D06 - 05

TRAFFIC CONTROL
TWO LANE TWO WAY
OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

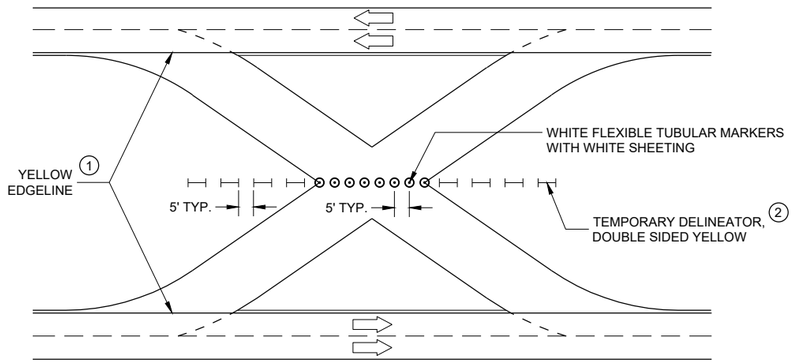
APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- DELINEATOR FLEXIBLE / TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- TYPE "A" WARNING LIGHT (FLASHING)
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK AREA



TRAFFIC CONTROL FOR CROSSOVER THAT IS NOT IN USE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

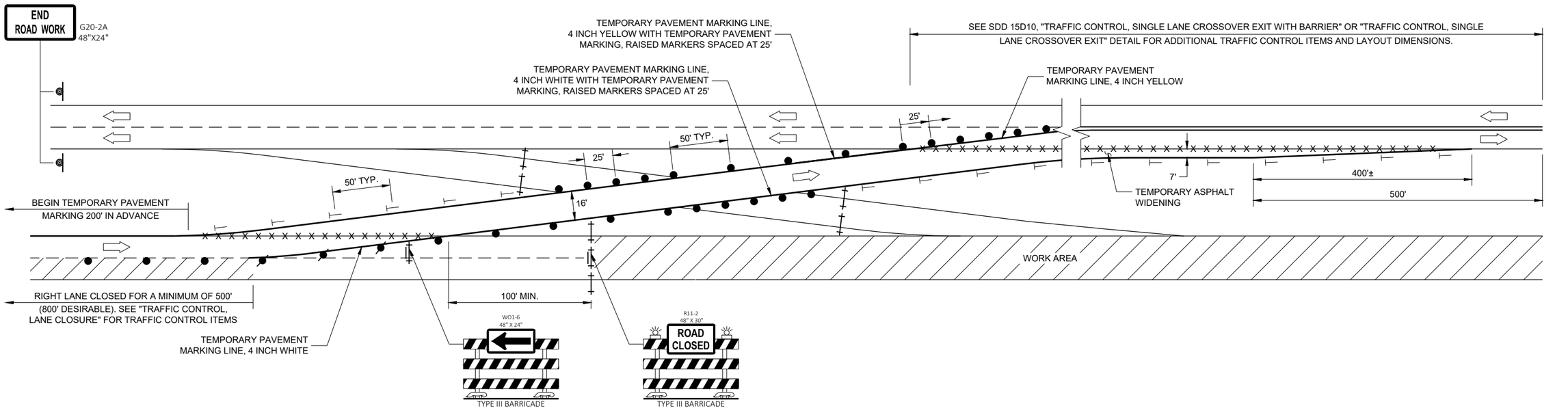
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

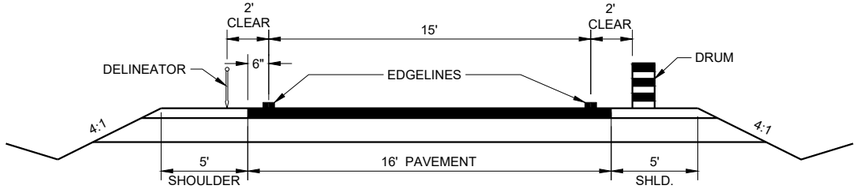
THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.

(1) FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.

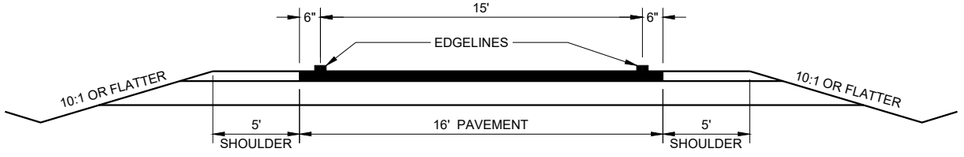
(2) FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.





TYPICAL TEMPORARY CROSSOVER ROADWAY DIMENSIONS

(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)



TYPICAL CROSSOVER TO REMAIN IN PLACE ROADWAY DIMENSIONS

(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)

TRAFFIC CONTROL, SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15D11 - 08

SDD 15D11 - 08

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

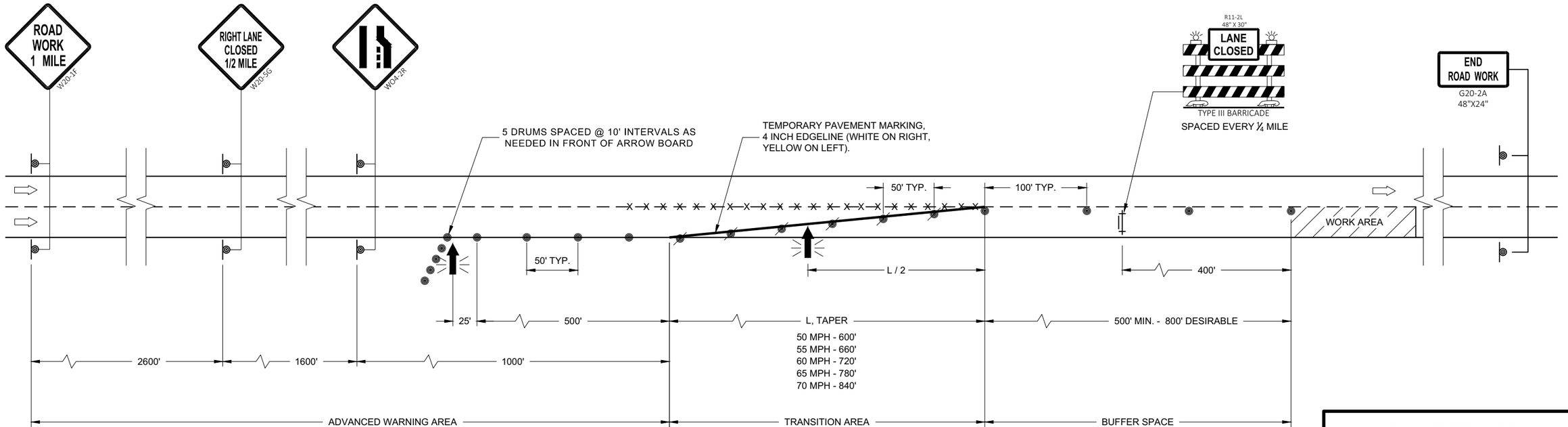
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D12 - 09a

6

SDD 15D12 - 09a

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

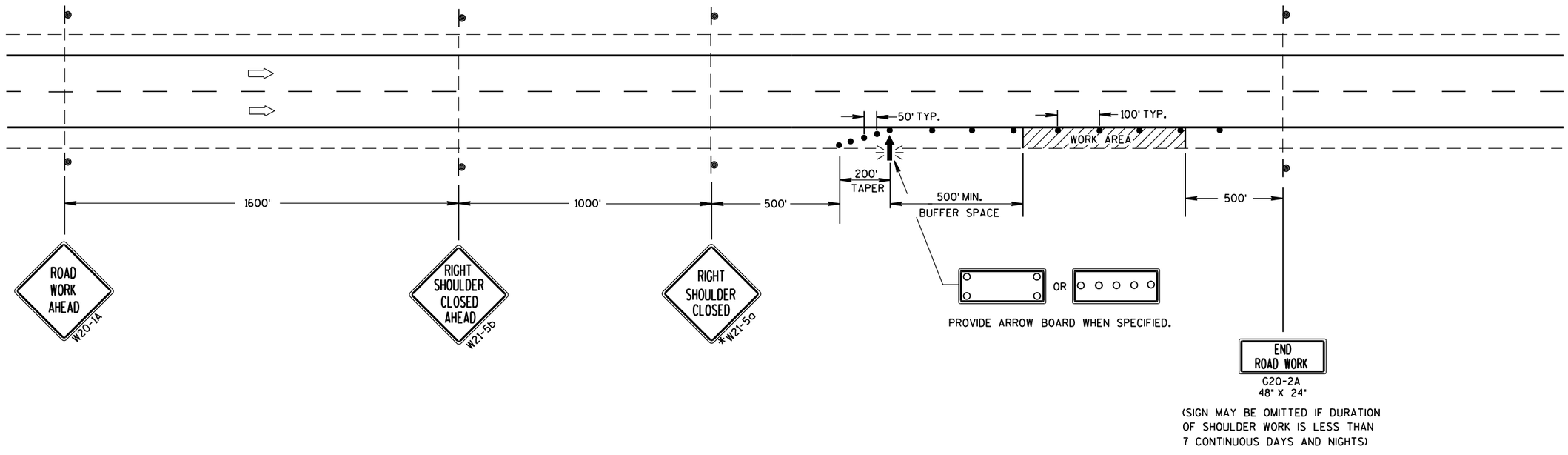
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]IC SAFETY ENGI[illegible]

FHWA

6

S.D.D. 15 D 27-3

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

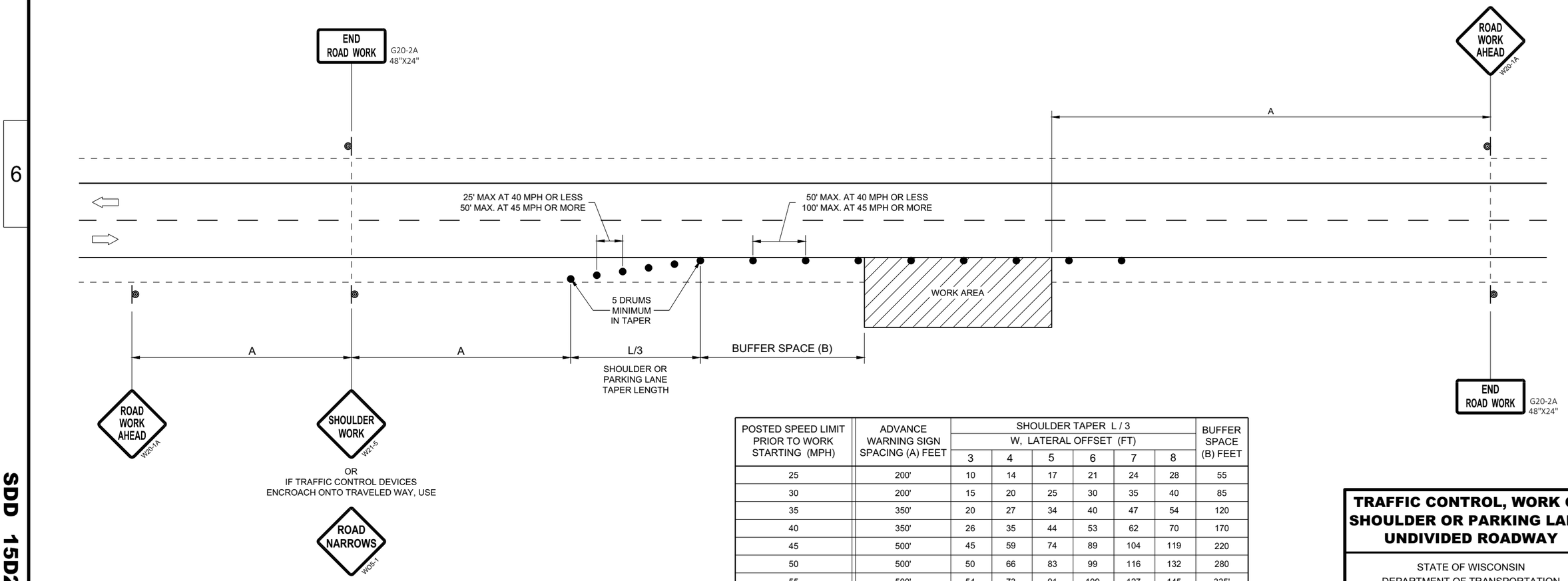
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

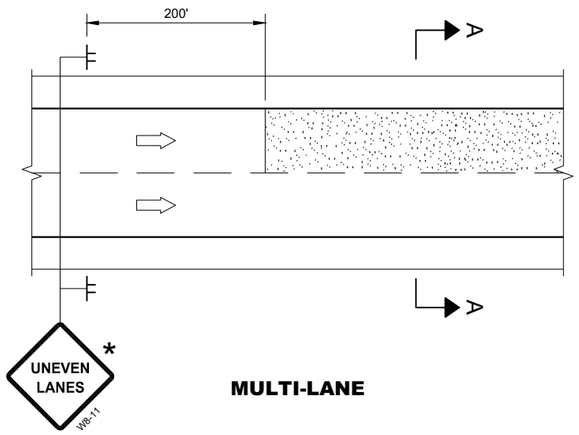
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

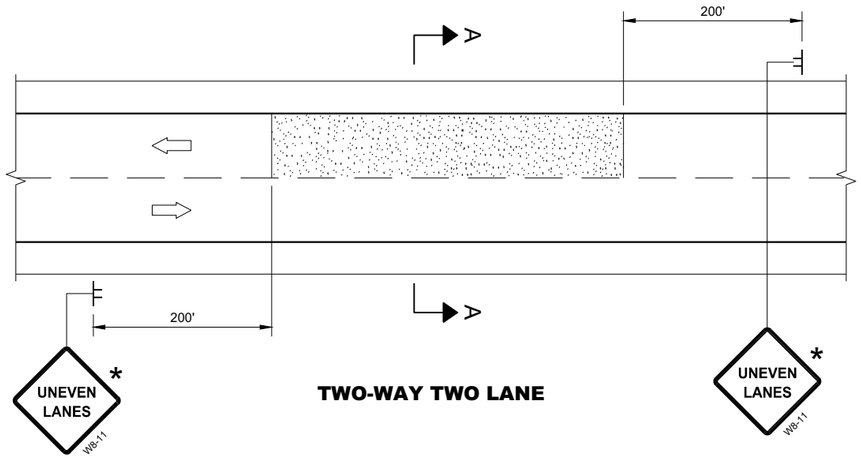
FHWA

6

SDD 15D28 - 04



MULTI-LANE



TWO-WAY TWO LANE

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.

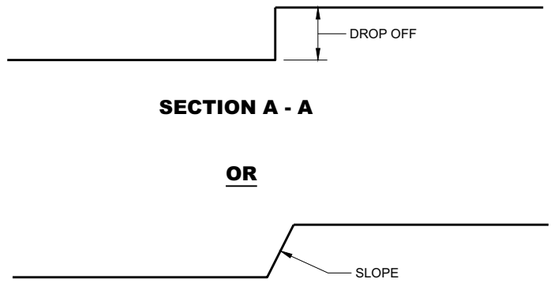
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* 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.

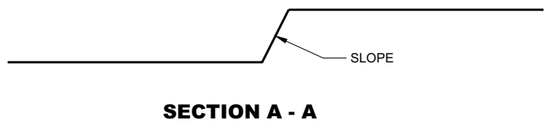
LEGEND

- 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

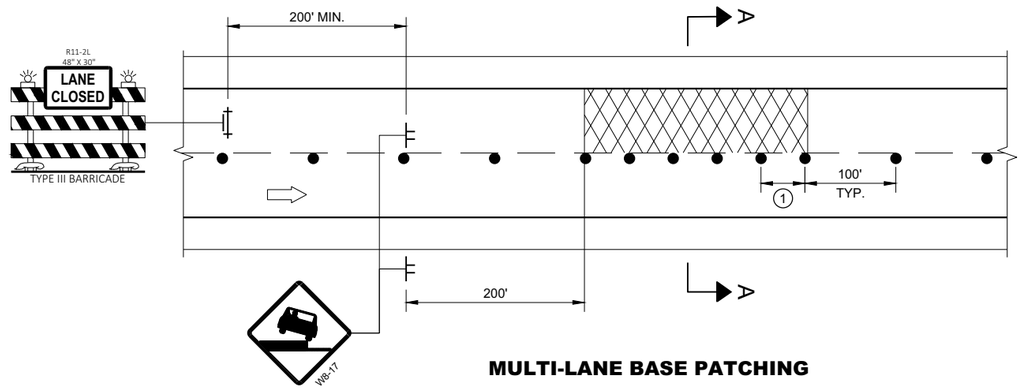


SECTION A - A

OR

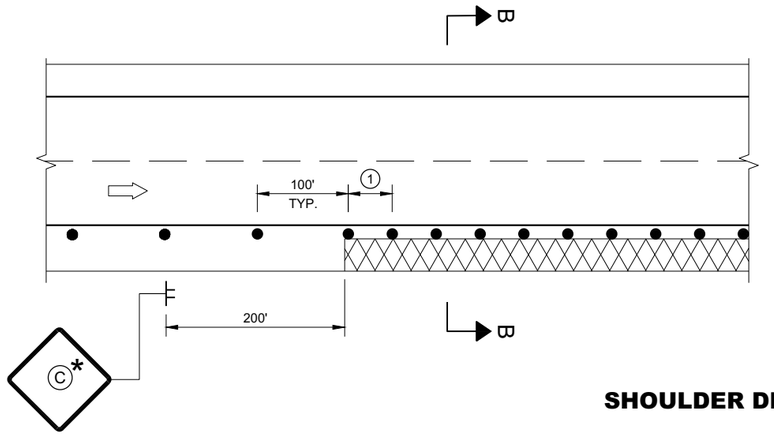


SECTION A - A

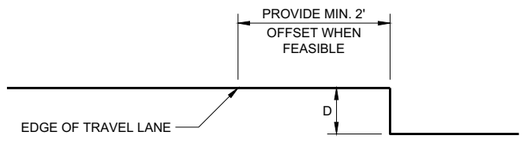


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

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

6

SDD 15D39 - 02

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE "A" WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

WORK AREA

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

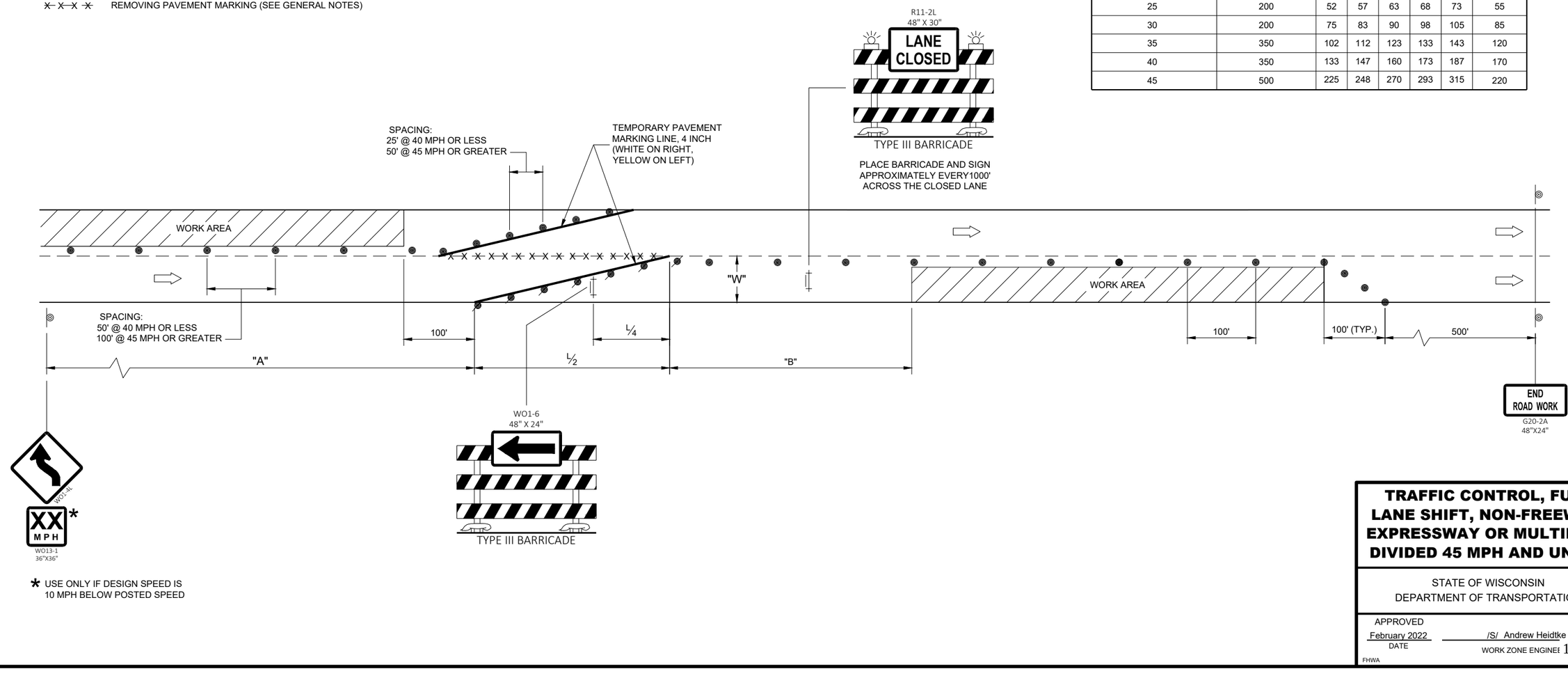
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	143	120
40	350	133	147	160	173	187	170
45	500	225	248	270	293	315	220



* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D40 - 03a

6

SDD 15D40 - 03a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVE PAVEMENT MARKING

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

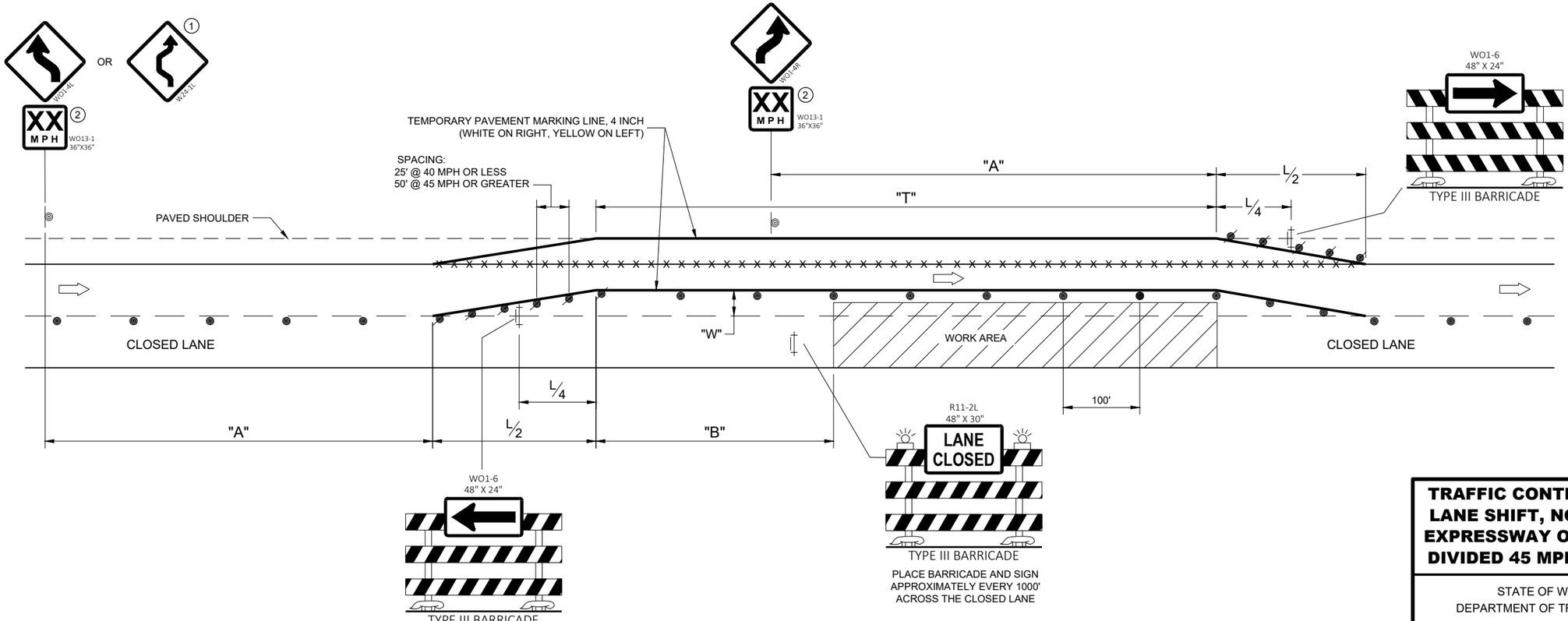
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T<600', OMIT WO1-4R.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)									BUFFER SPACE (B) FEET
		1	2	3	4	5	6	7	8	9	
25	200	5	10	16	21	26	31	36	42	47	55
30	200	8	15	23	30	38	45	53	60	68	85
35	350	10	20	31	41	51	61	71	82	92	120
40	350	13	27	40	53	67	80	93	107	120	170
45	500	23	45	68	90	113	135	158	180	203	220



TRAFFIC CONTROL, PARTIAL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D40 - 03c

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.

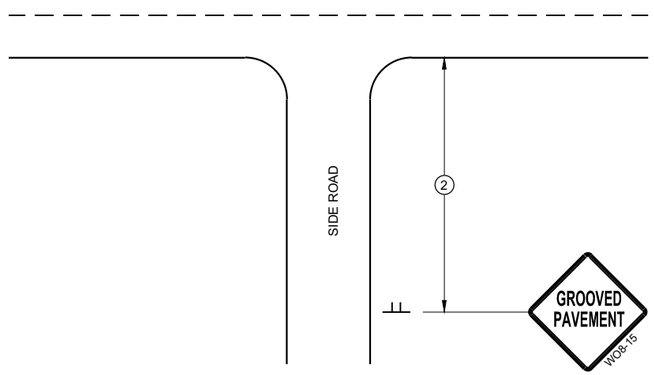
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

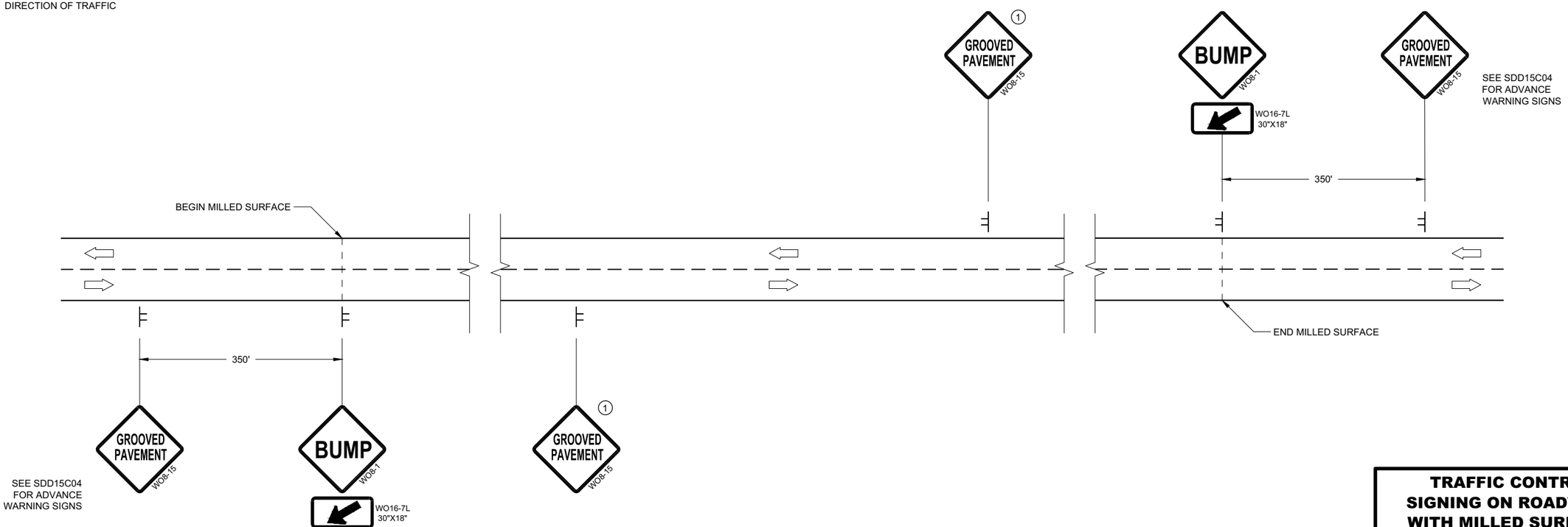
LEGEND

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

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					
		3	4	5	6	7	8
25	200	10	14	17	21	24	28
30	200	15	20	25	30	35	40
35	350	20	27	34	40	47	54
40	350	26	35	44	53	62	70
45	500	45	59	74	89	104	119
50	500	50	66	83	99	116	132
55	500	54	73	91	109	127	145

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

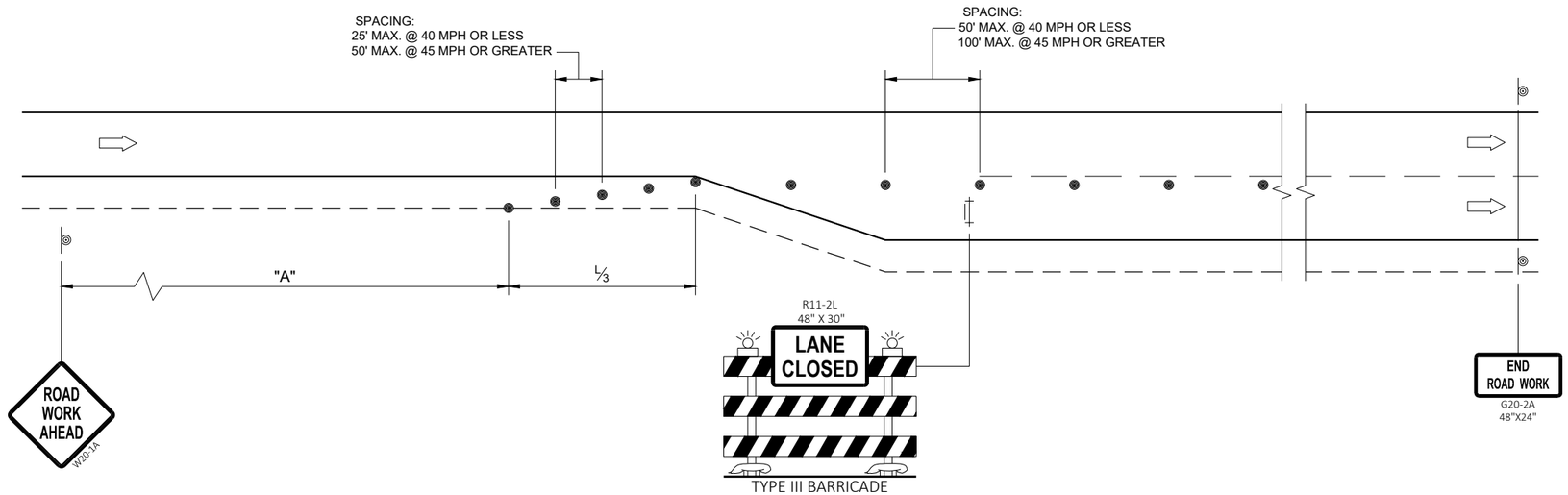
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE

TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D50 - 02a

6

SDD 15D50 - 02a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

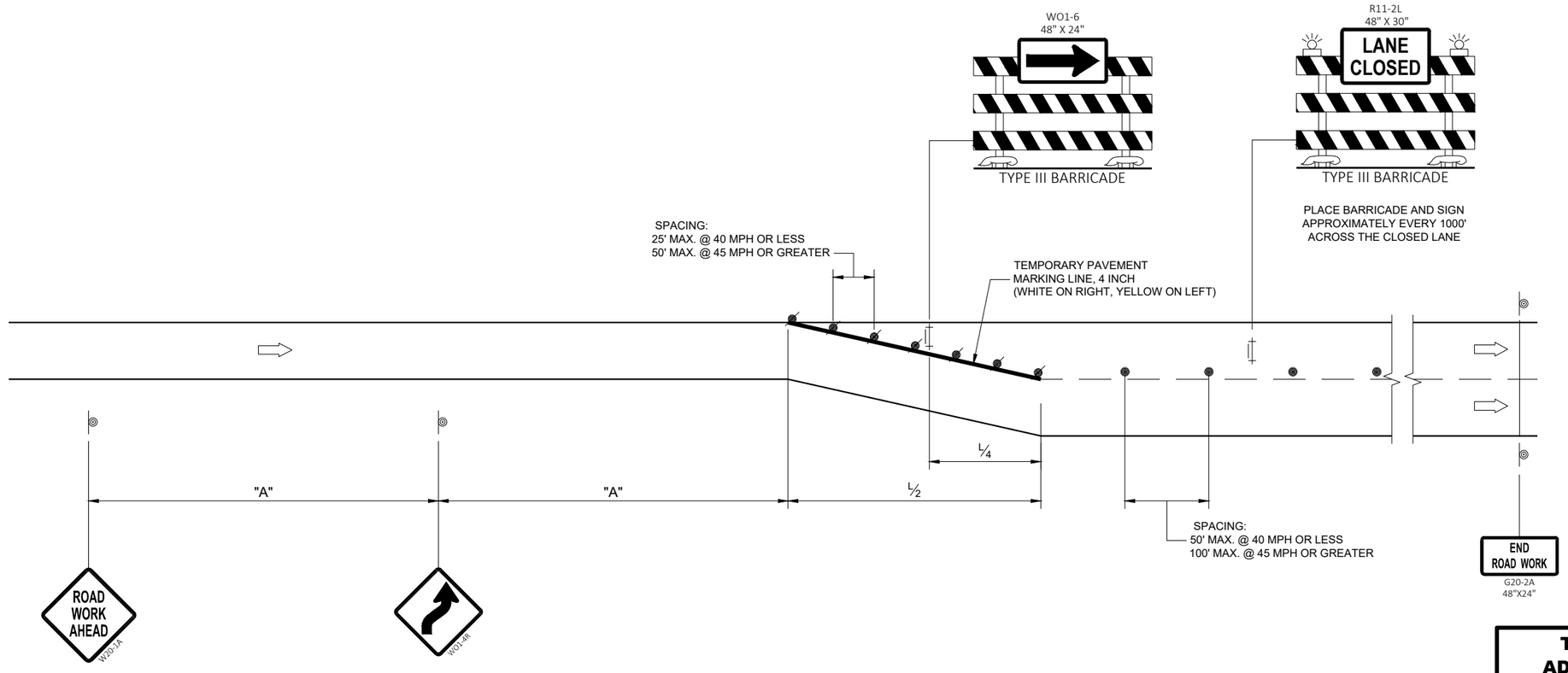
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

PLACE TEMPORARY PAVEMENT MARKING AND PLACE TEMPORARY PAVEMENT LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.



TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

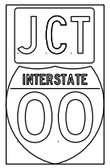
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SDD 15D50 - 02b

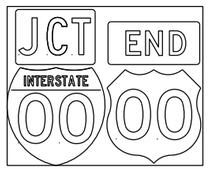
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SDD 15D50 - 02b

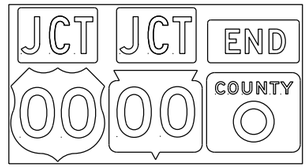
TYPICAL ASSEMBLIES



J1-1



J1-2



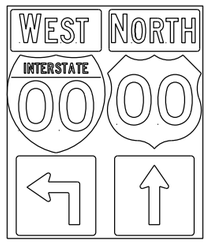
J1-3



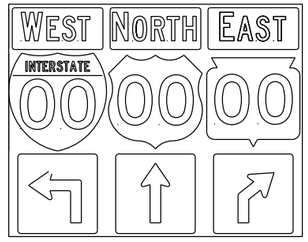
JR1-1



J2-1



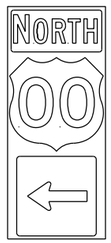
J2-2



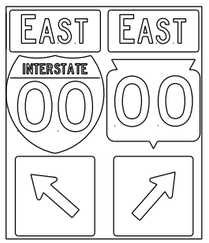
J2-3



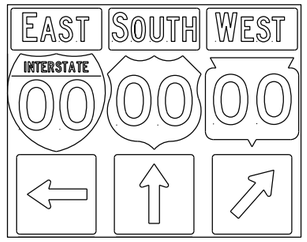
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



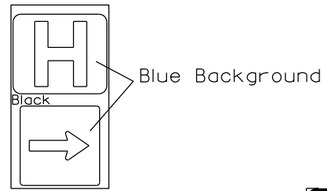
J3-1



J3-2



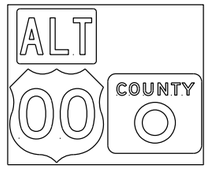
J3-3



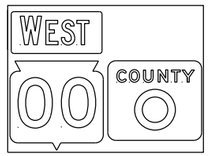
JH-1



J4-1



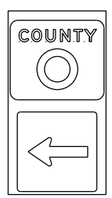
J4-2



J4-2



J12-1



J13-1



J32-1



J33-1



J22-1



J23-1



JR13-1

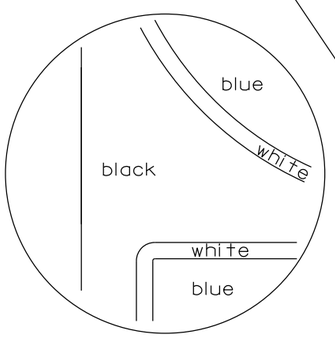


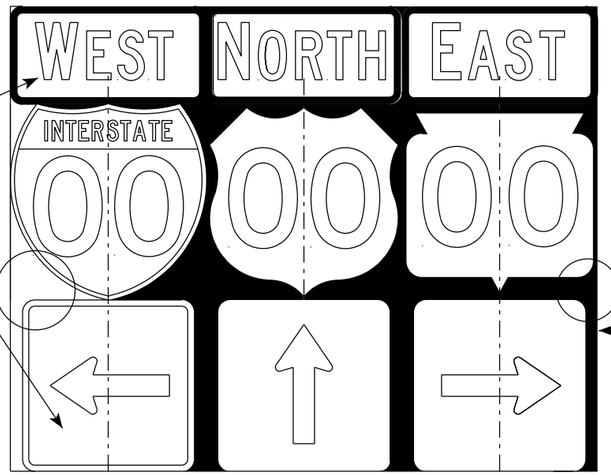
JR23-1

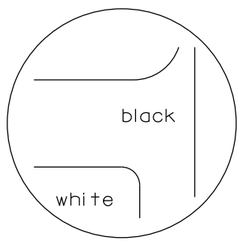


JR99-1

[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: 193 **E**

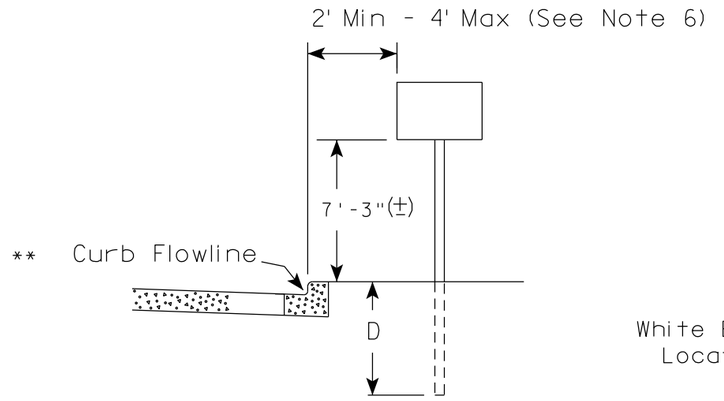
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WISDOT/CADDS SHEET 42

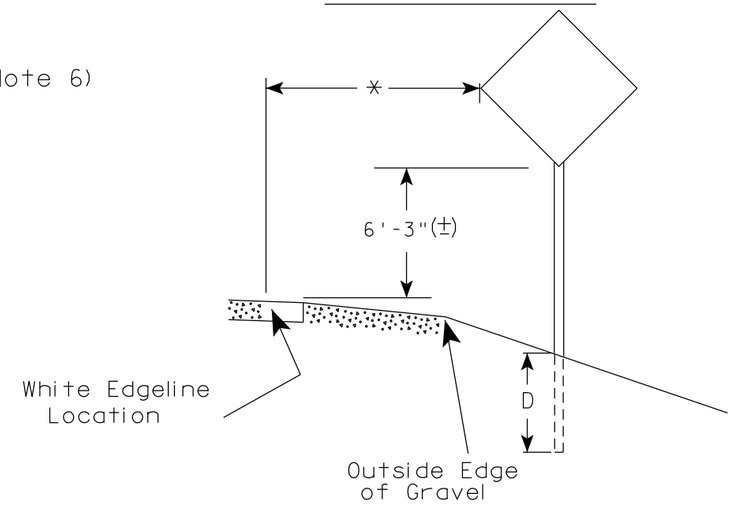
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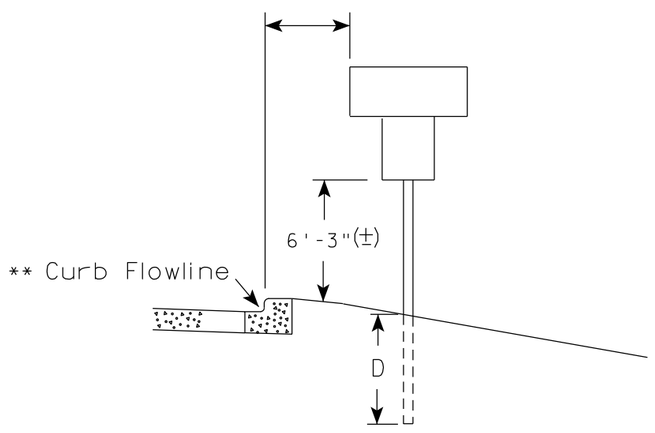
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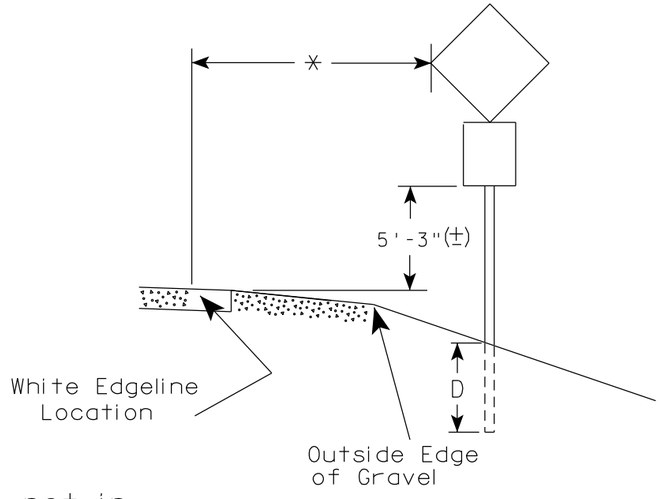
URBAN AREA



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.

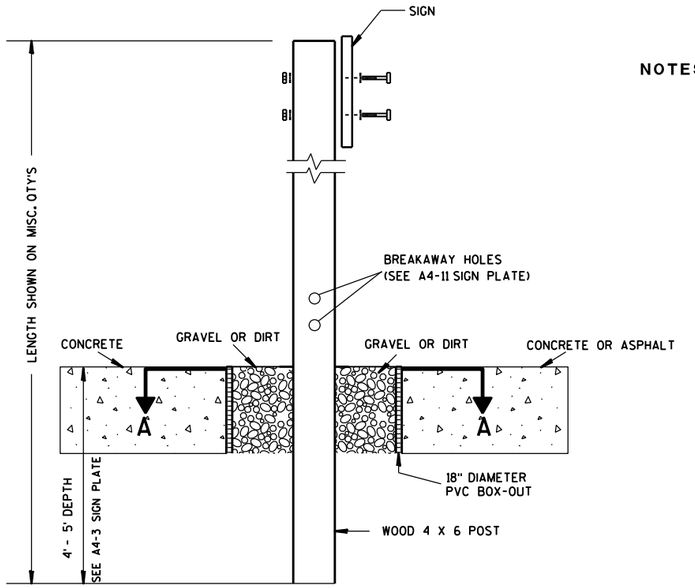
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

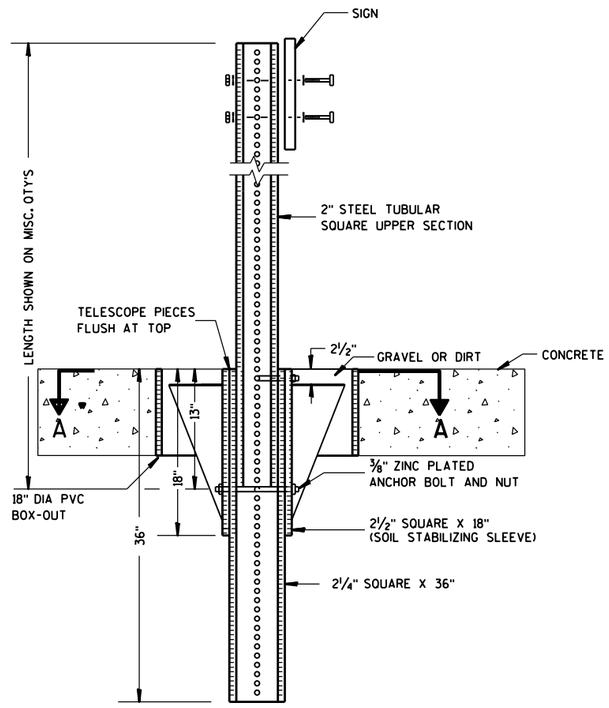
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 194	E



ELEVATION VIEW

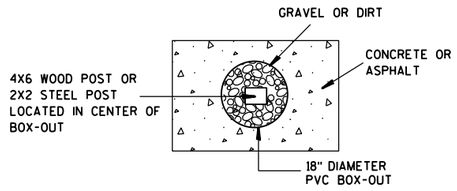
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

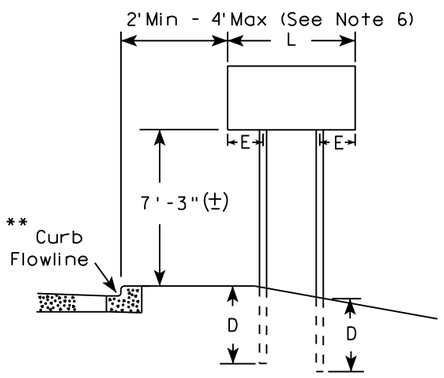
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

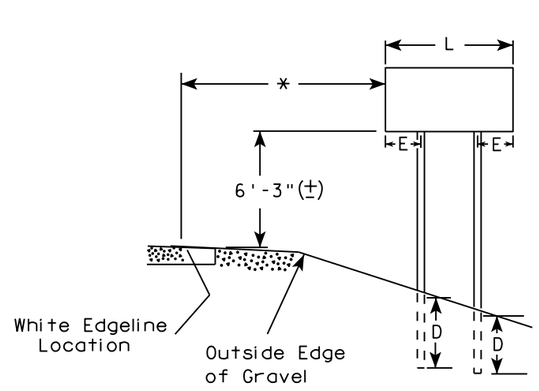
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

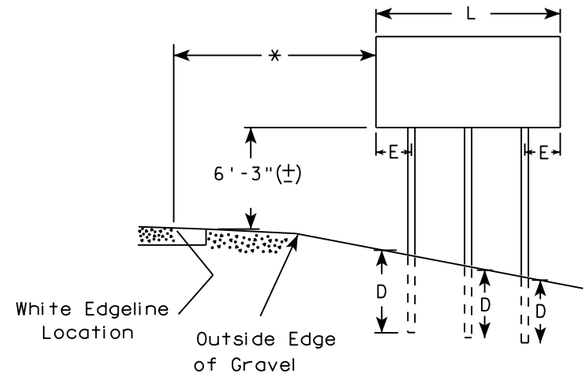
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

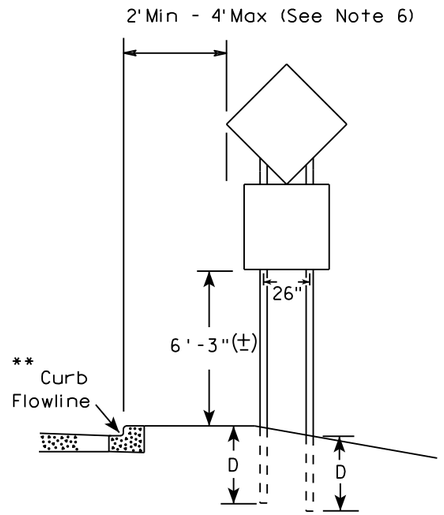
URBAN AREA



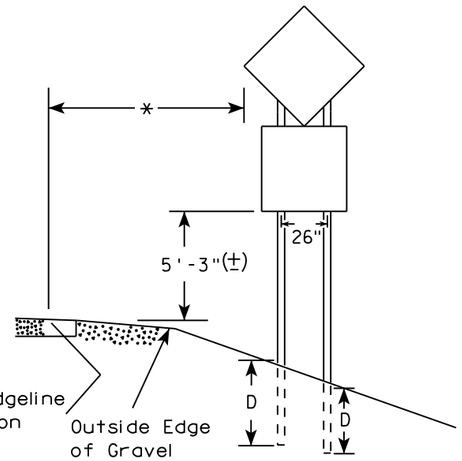
RURAL AREA (See Note 3)







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'

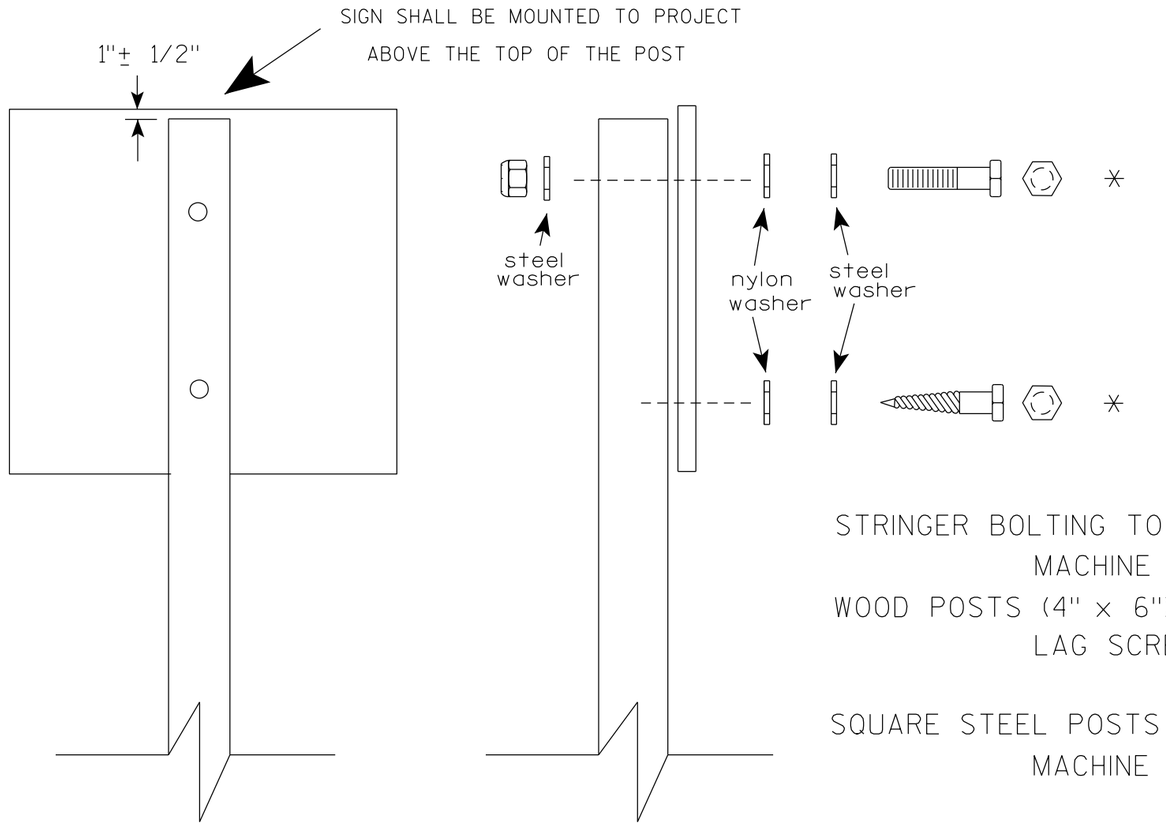
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 196	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

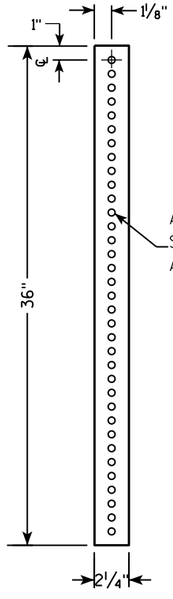
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

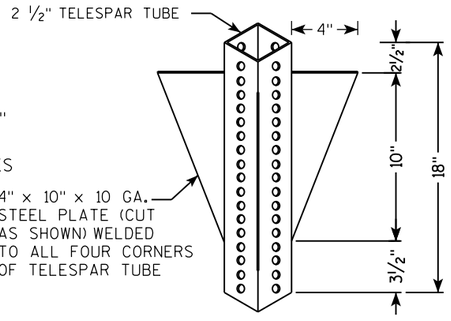
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

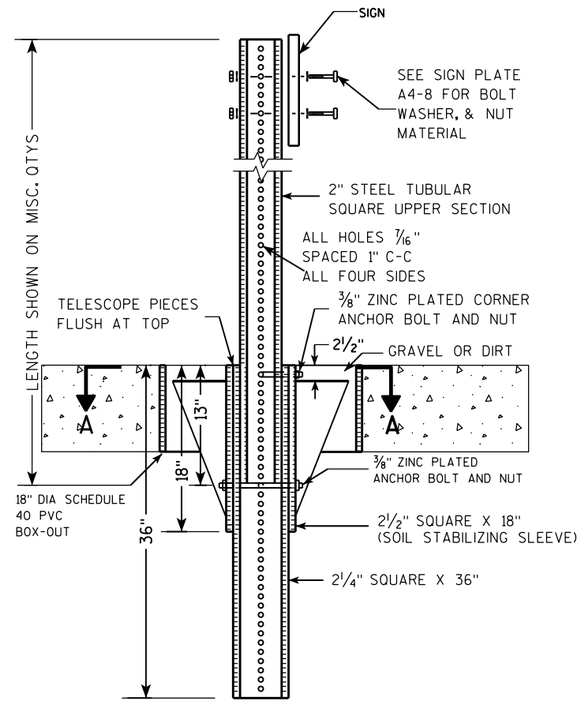
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



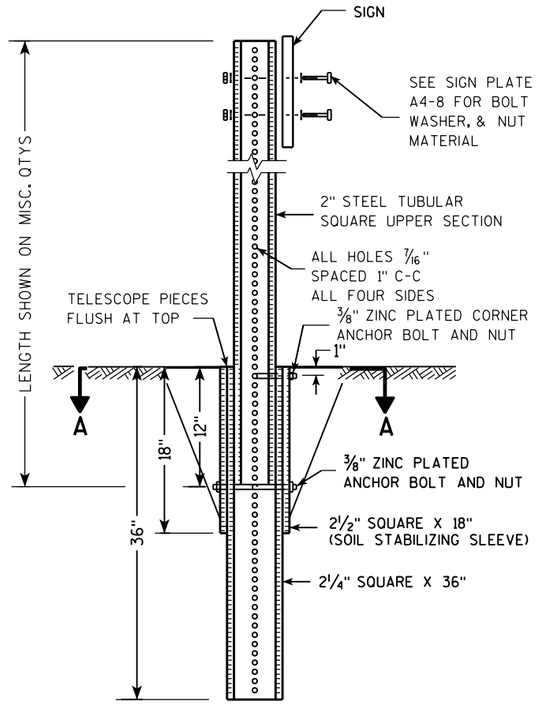
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

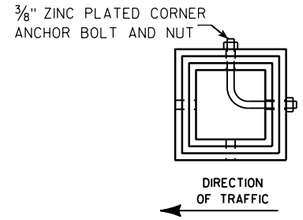


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

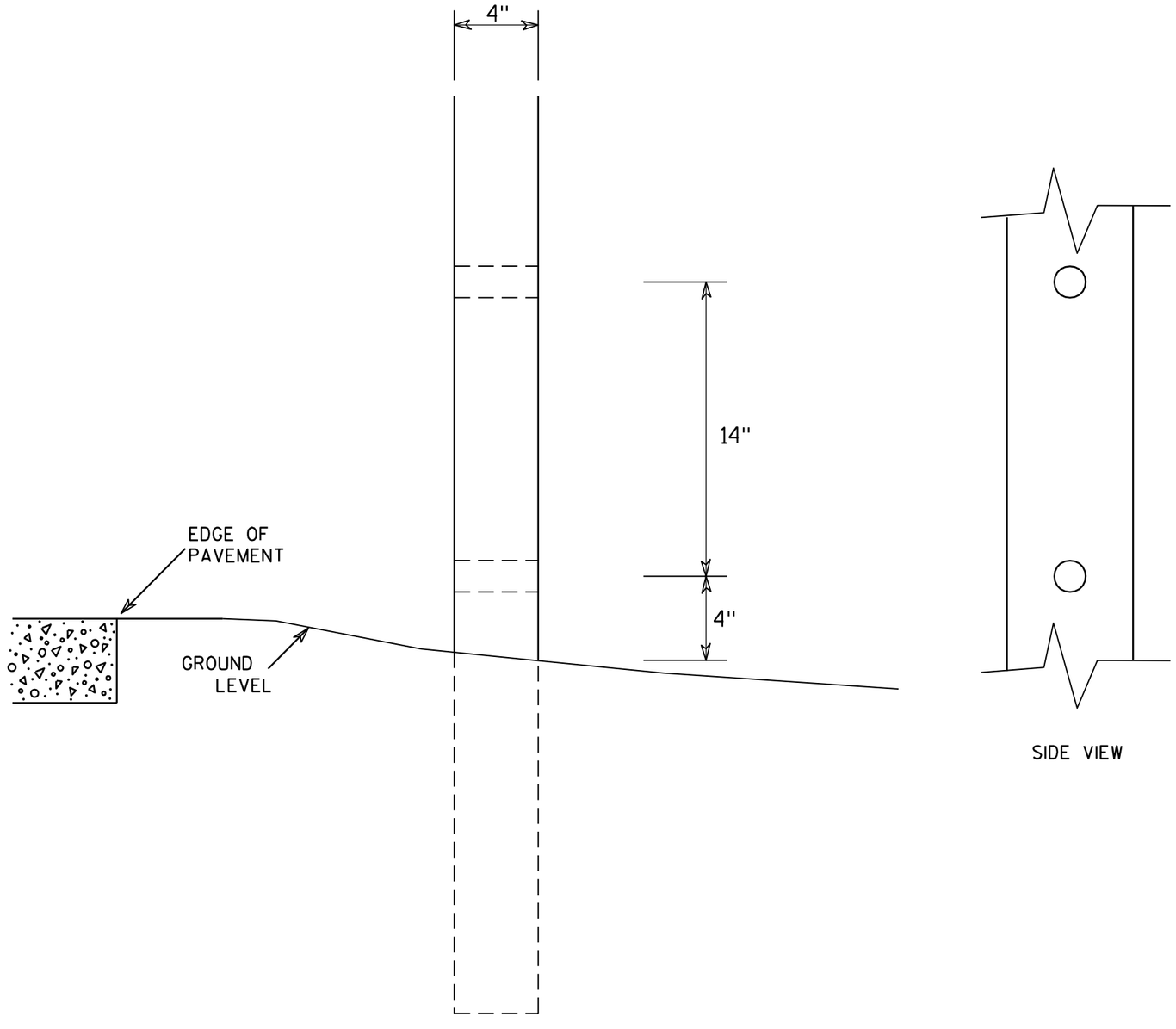
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



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.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

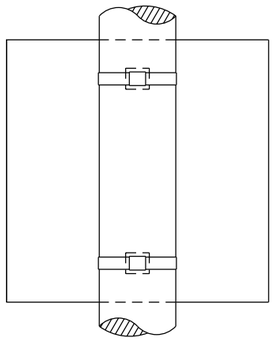
APPROVED Chester J Spang for State Traffic Engineer

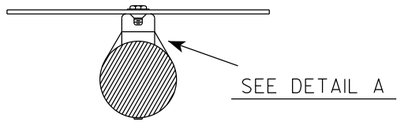
DATE 3/27/97 PLATE NO. A4-11.2

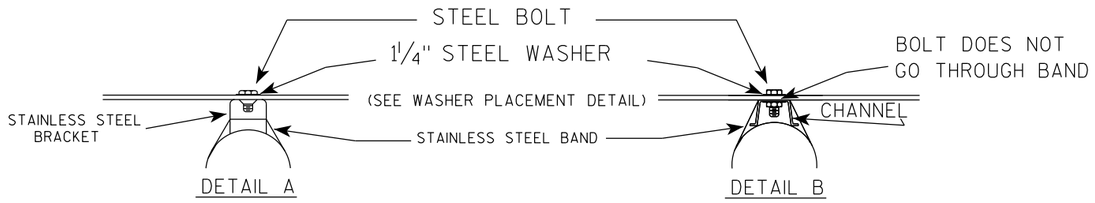
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 199	E

BANDING

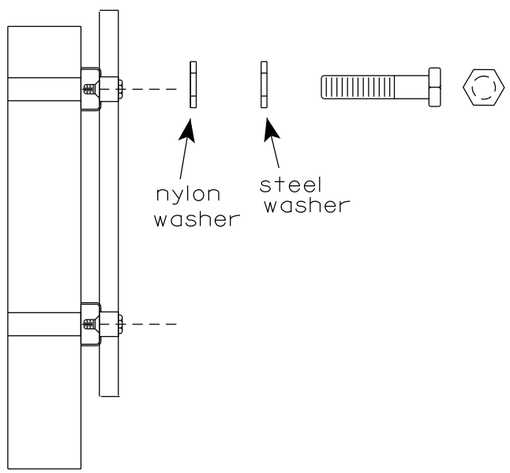
SINGLE SIGN







WASHER PLACEMENT

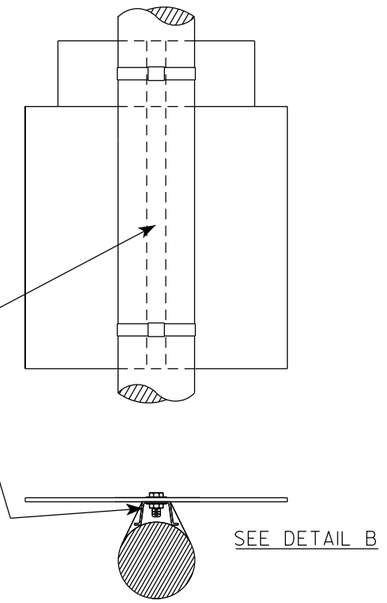


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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

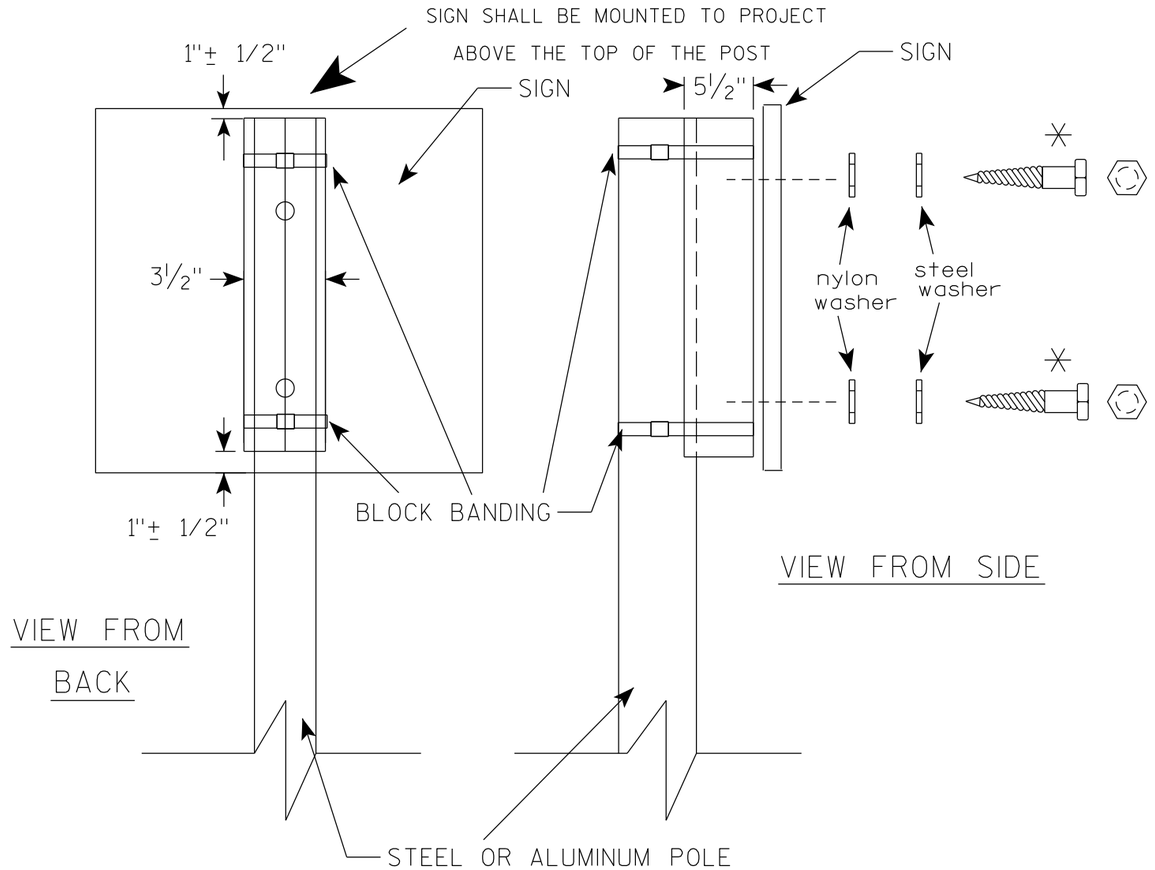
DATE 6/10/19 PLATE NO. A5-9.4

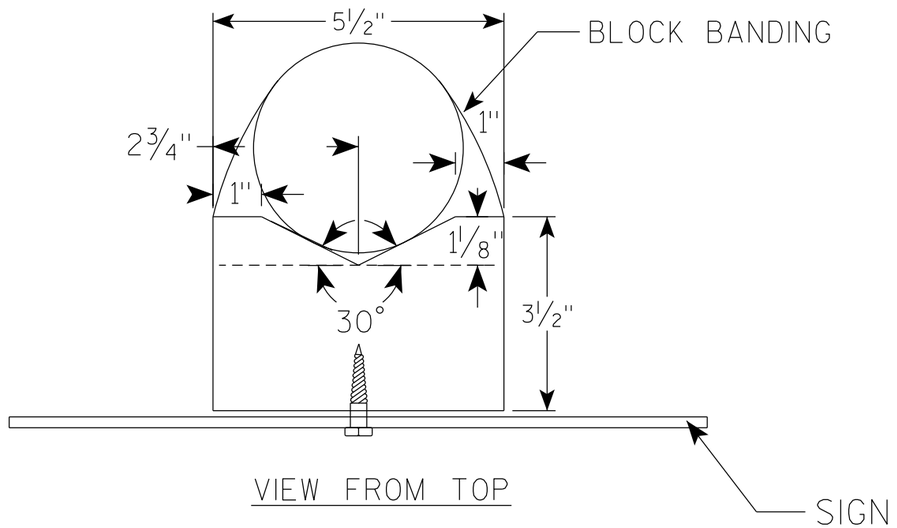
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 200	E

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"

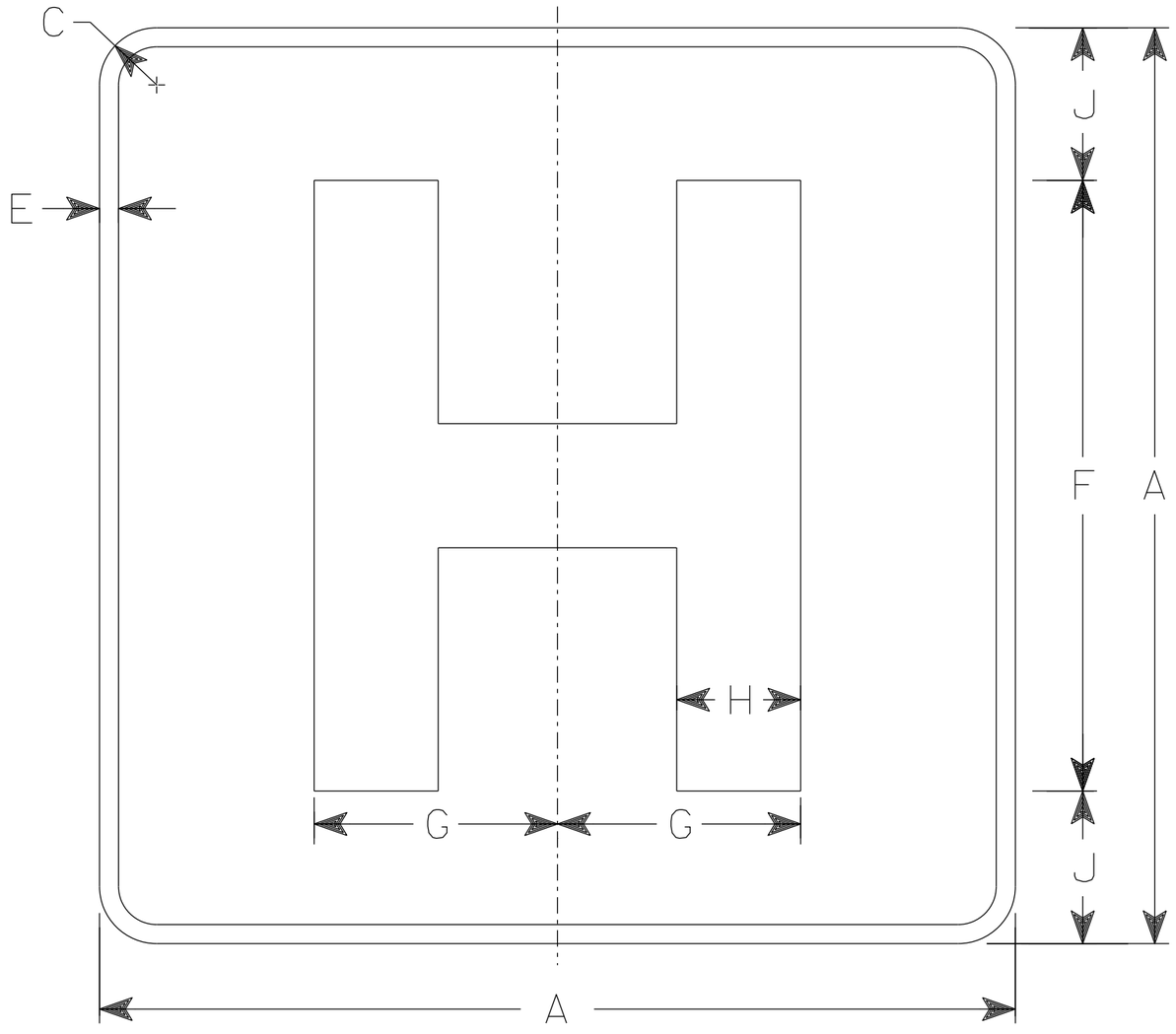
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:				SHEET NO: 201	E



D9-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
3. Message Series - E Modified
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	18		1 1/8		1/2	12	4 3/4	2 3/8		3																	2.25
2S	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
2M	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

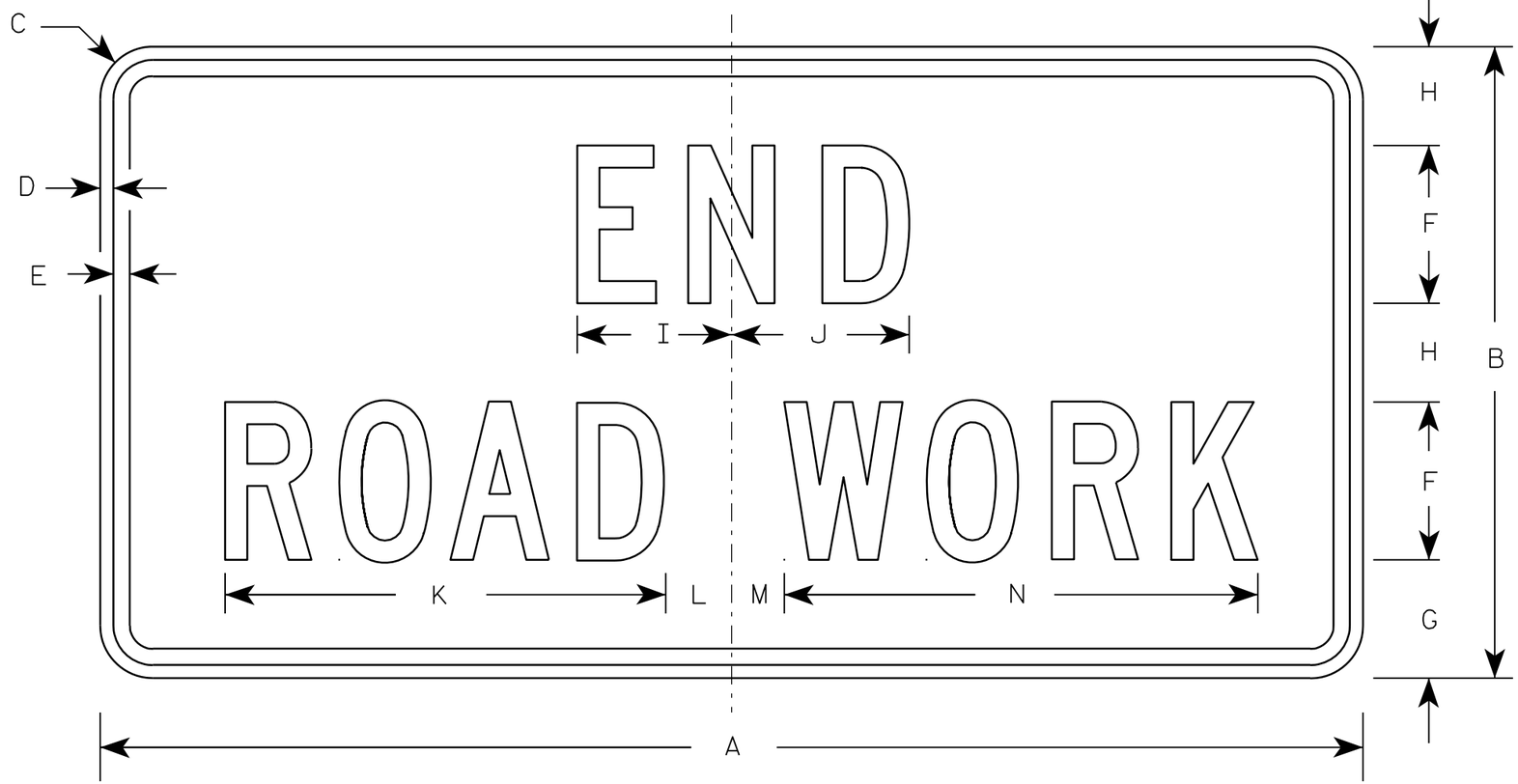
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/28/21 PLATE NO. D9-2.5

PROJECT NO:

SHEET NO: 202 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

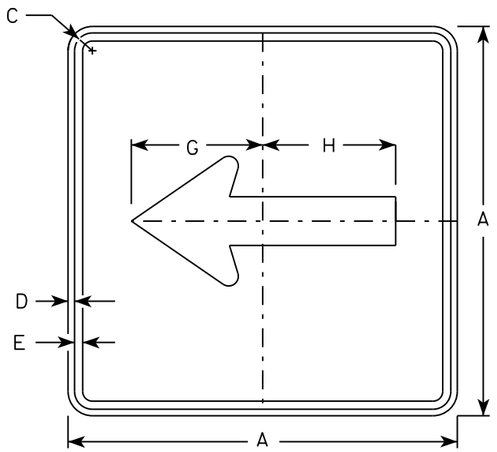
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

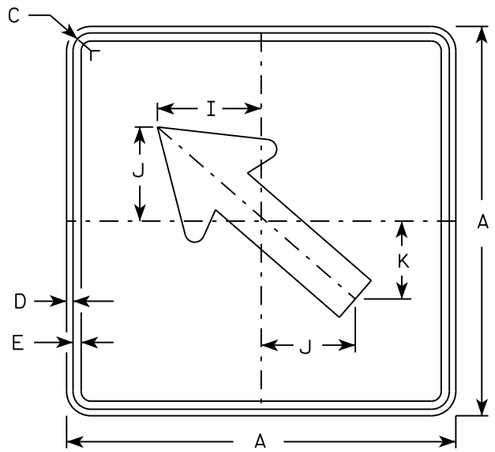
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 203	E



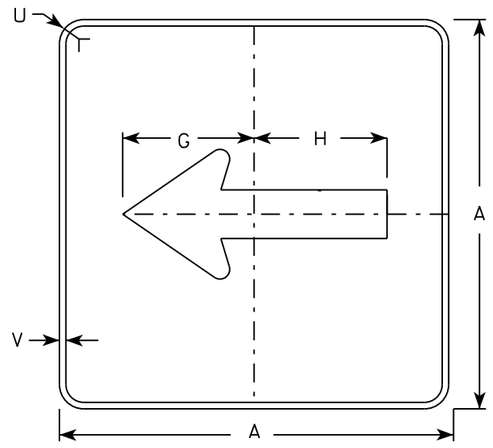
M6-1
MM6-1
MO6-1
MP6-1



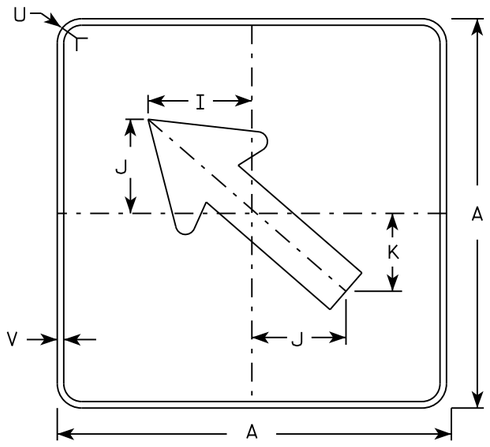
M6-2
MM6-2
MO6-2
MP6-2

NOTES

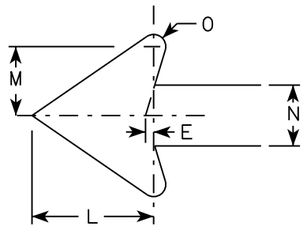
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

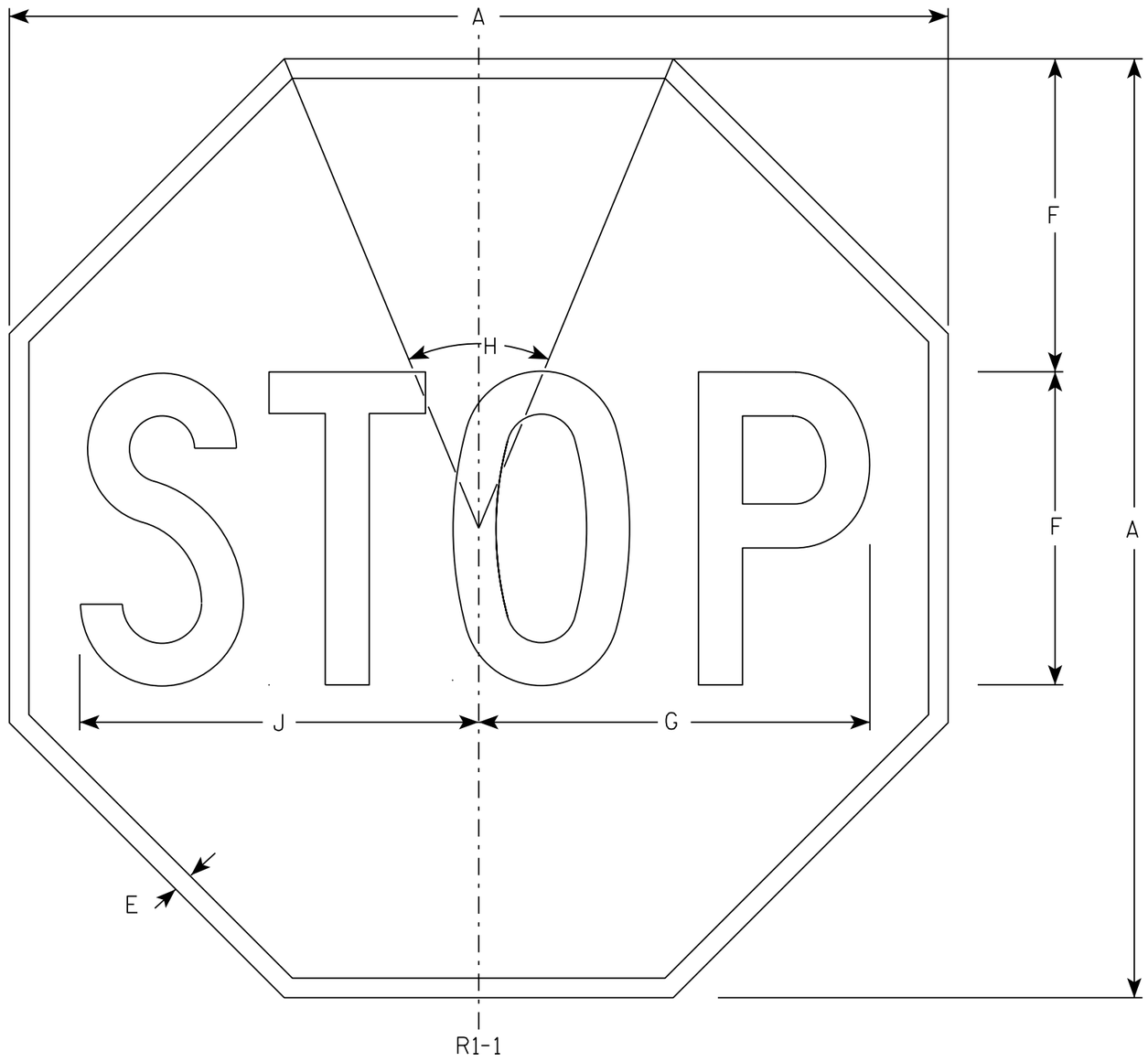
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 204 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

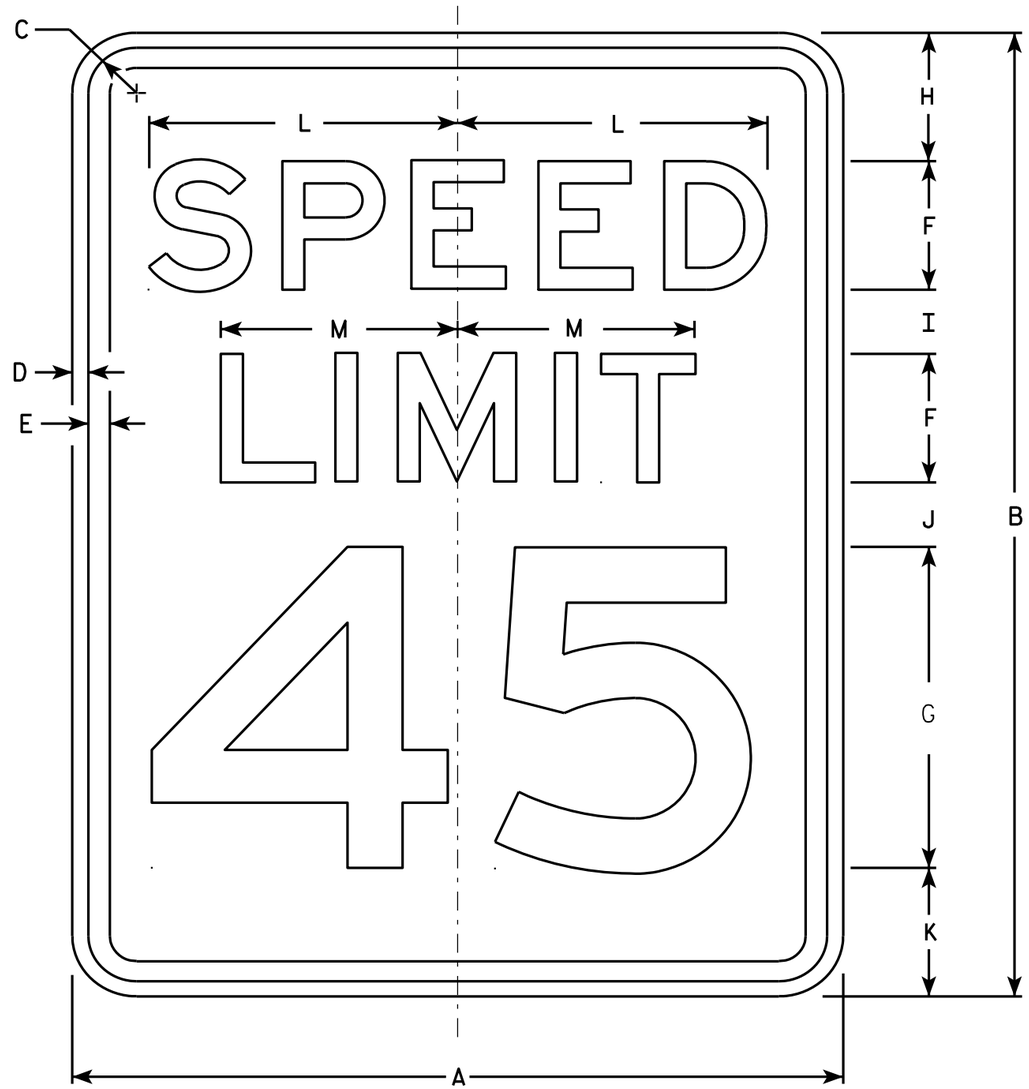
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 205	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

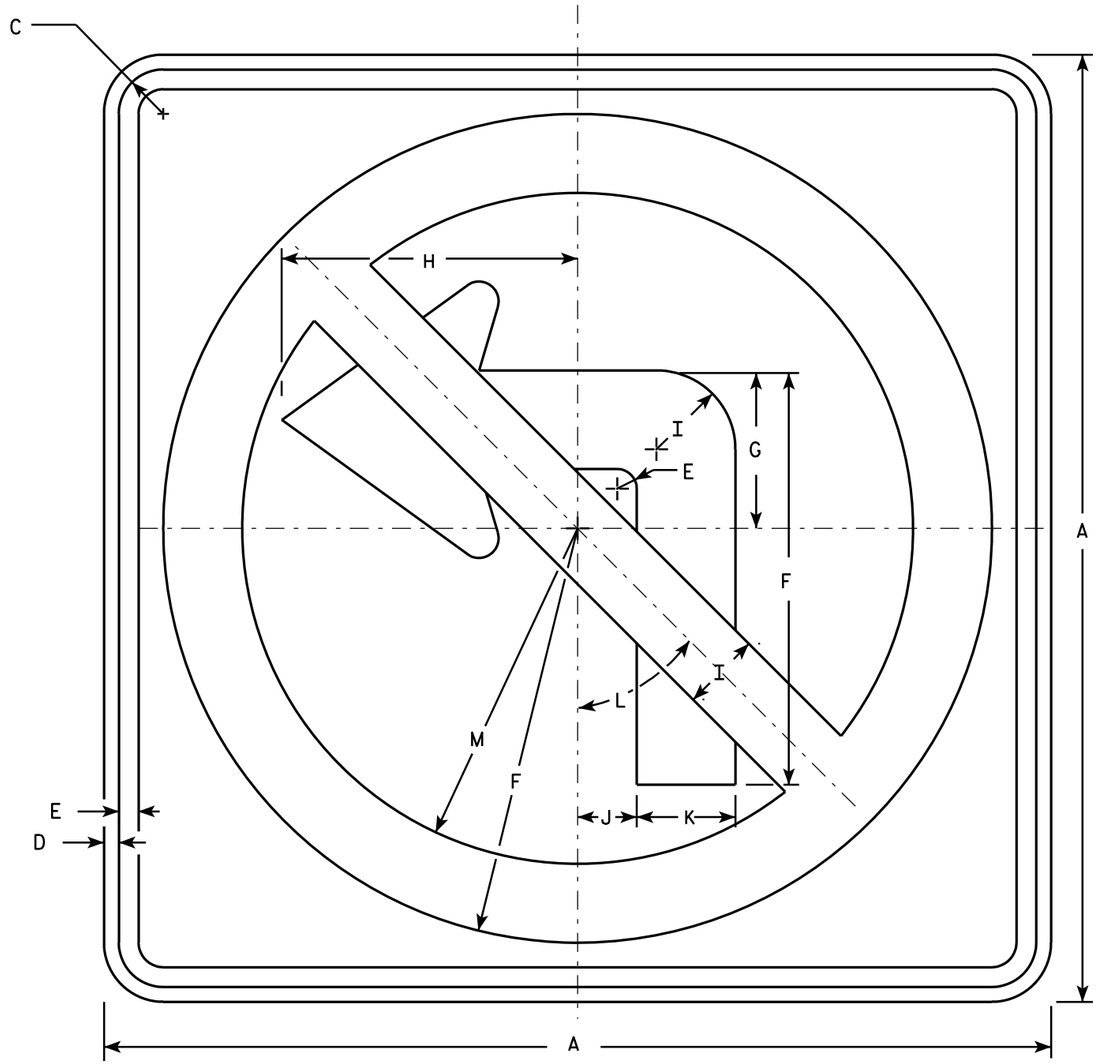
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 206 | E

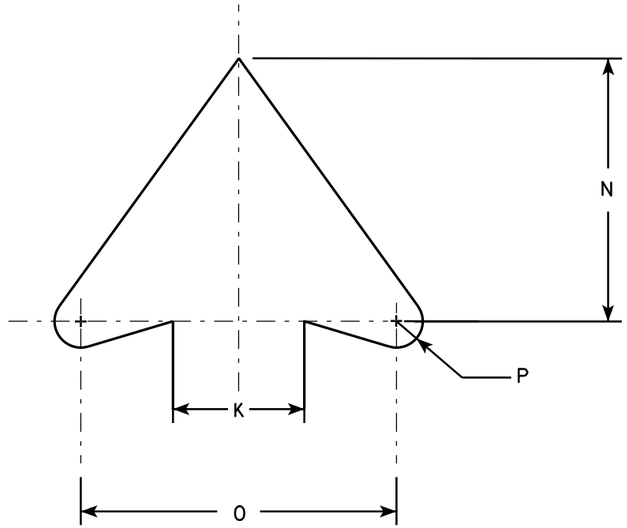
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000
WISDOT/CADDS SHEET 42



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

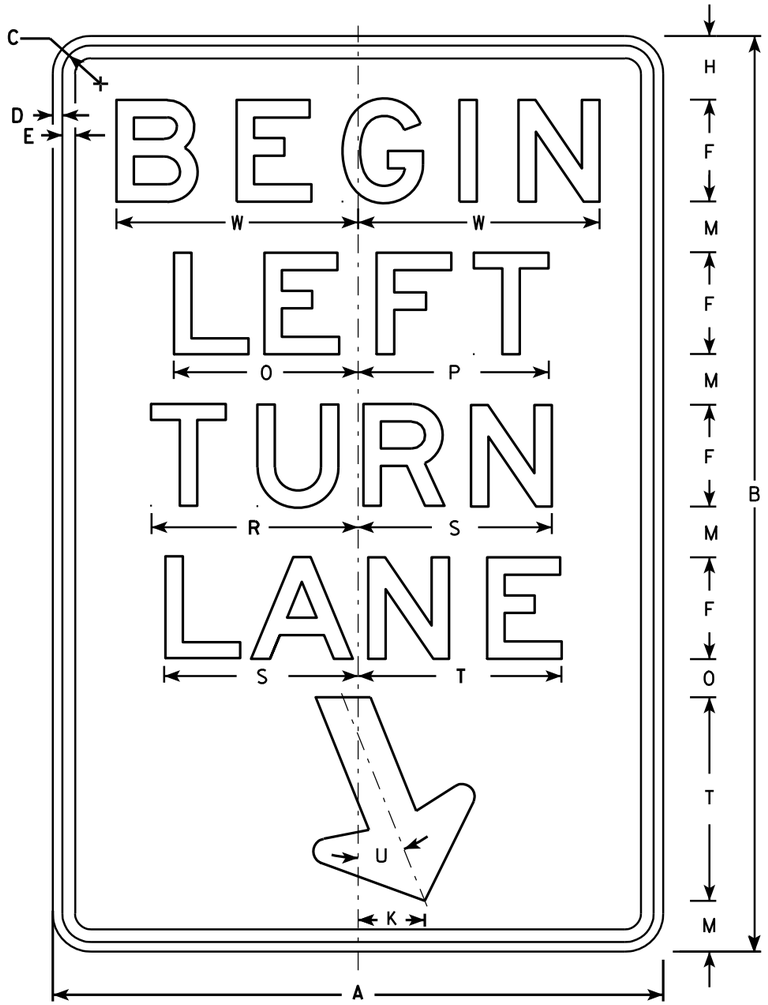
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

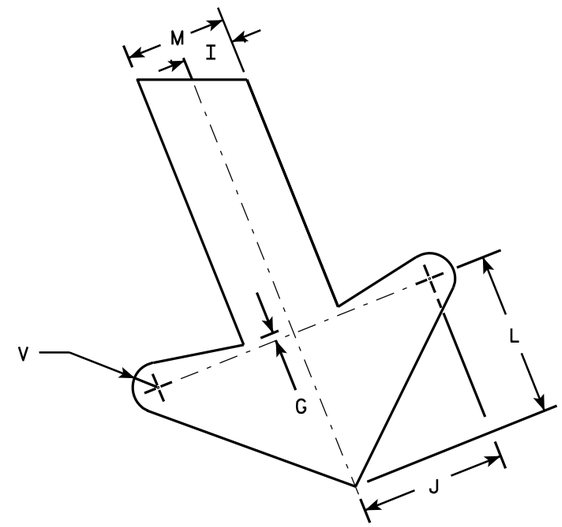
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 207	E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

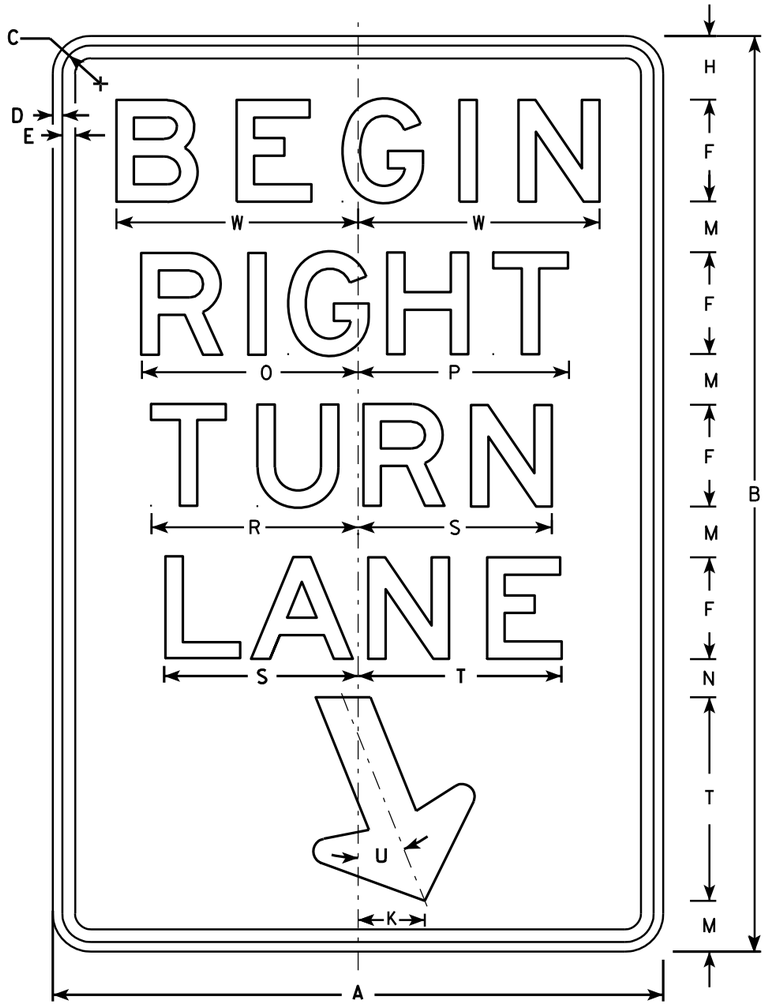
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

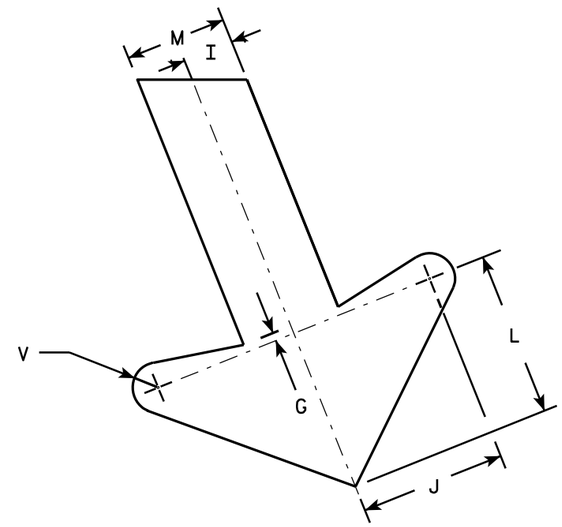
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 208 | E



R3-20RR

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

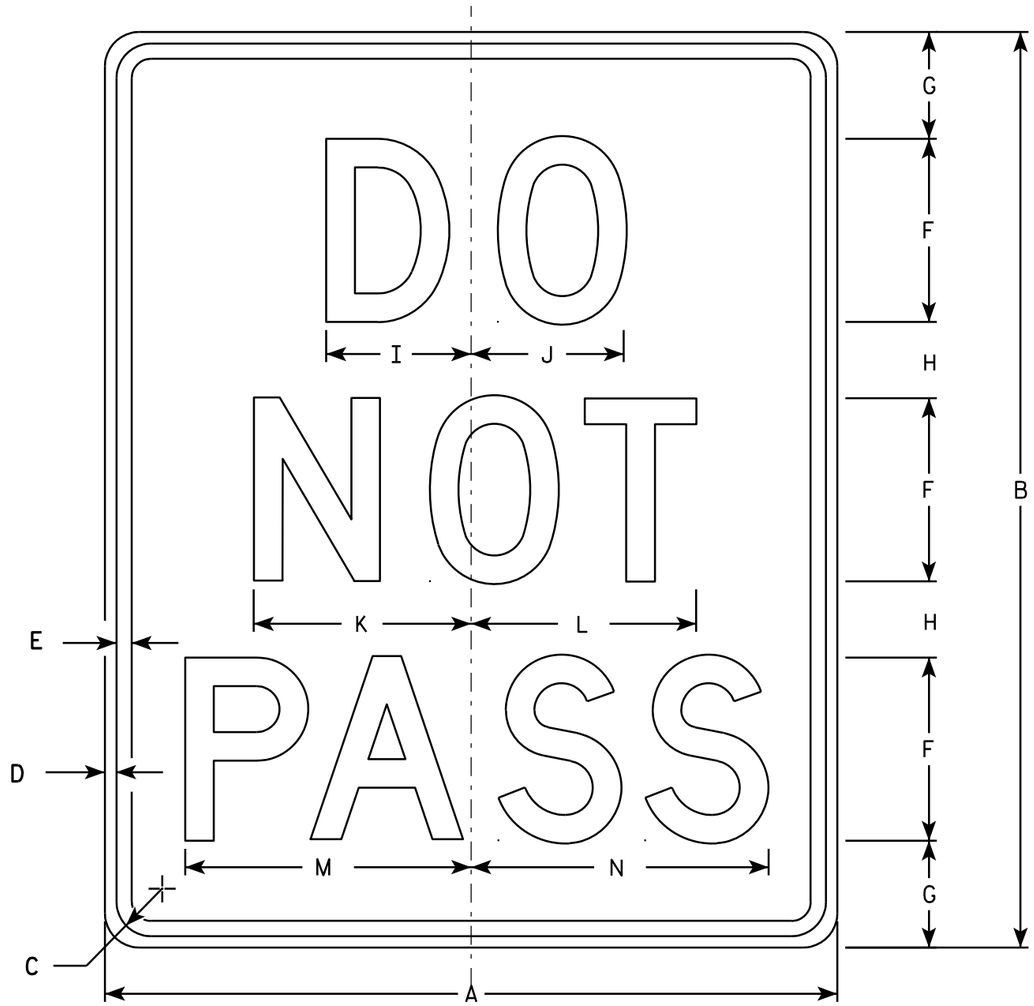
STANDARD SIGN
R3-20RR

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20RR.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 209 | E



R4-1

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 - 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	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

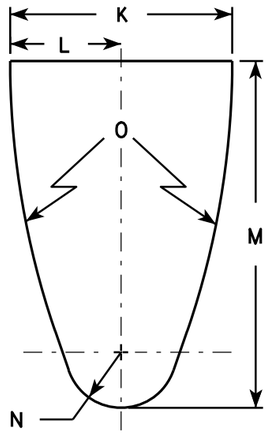
STANDARD SIGN
R4-1

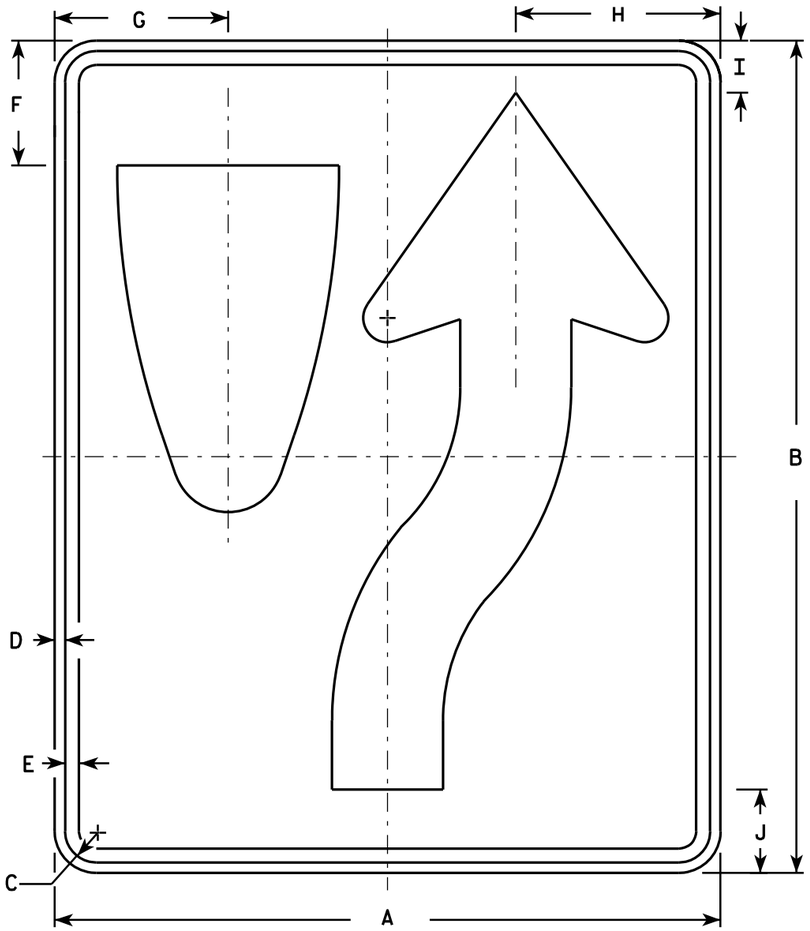
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-1.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 210 | E

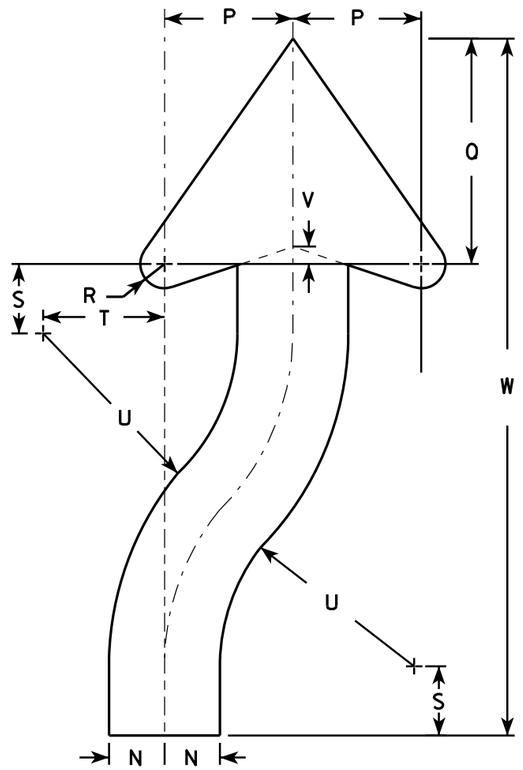




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

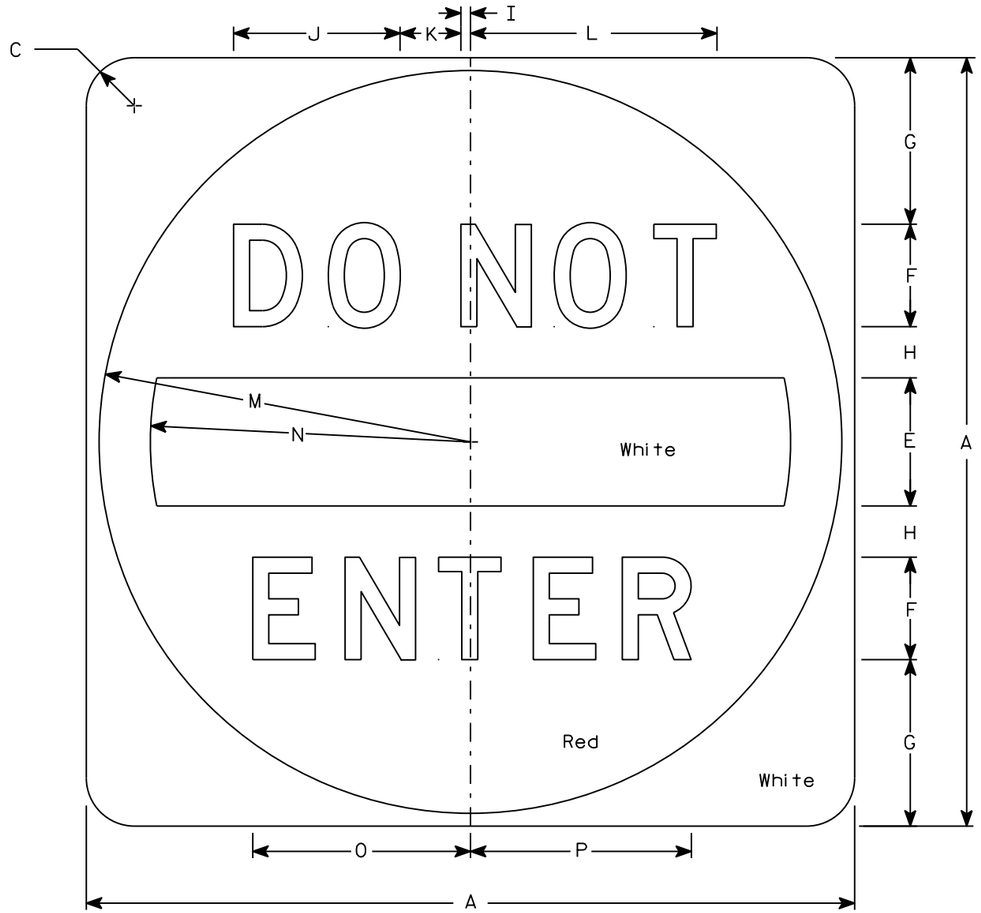
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 211	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

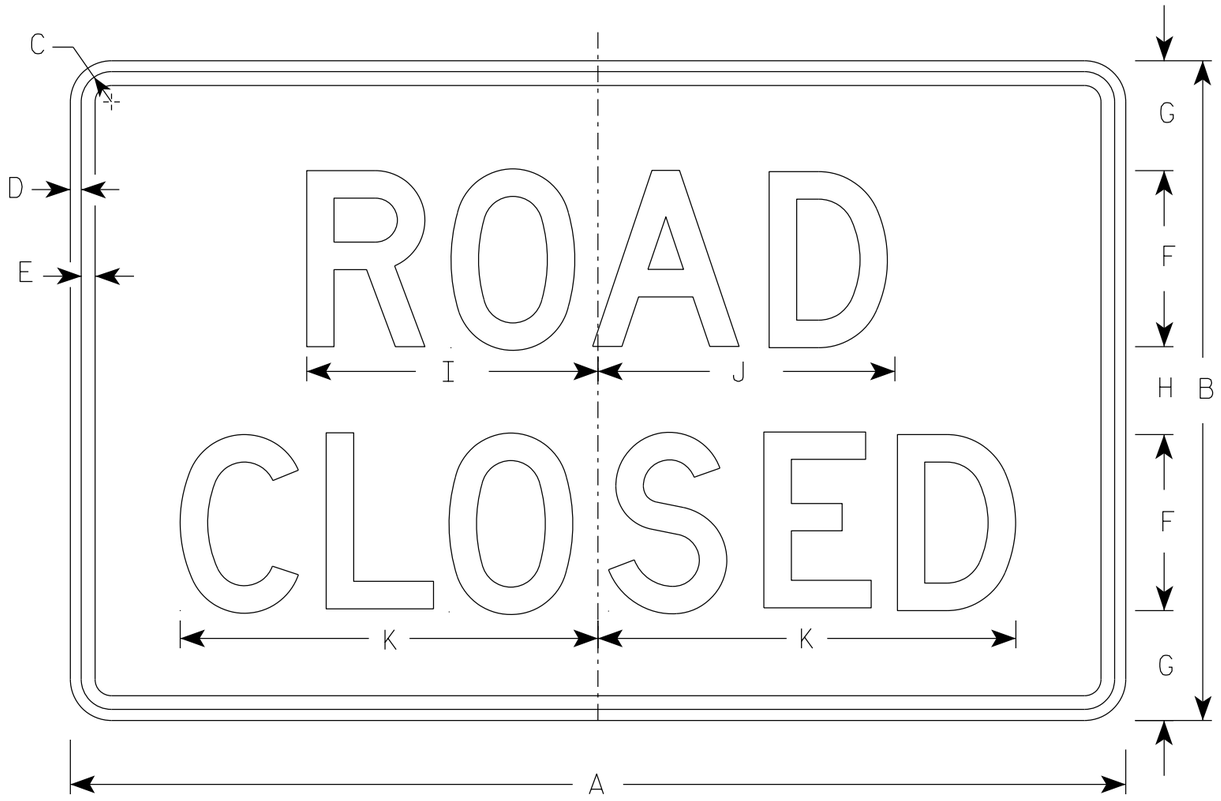
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

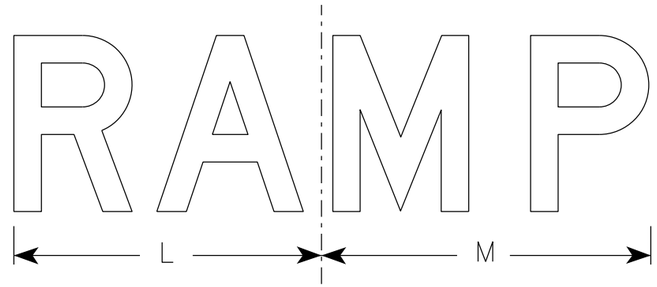
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 212 | E



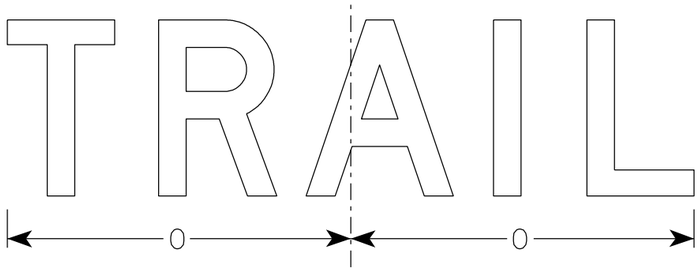
R11-2

NOTES

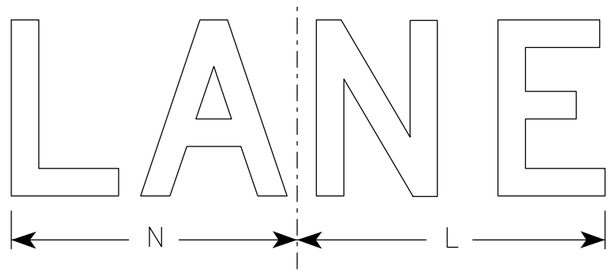
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the 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

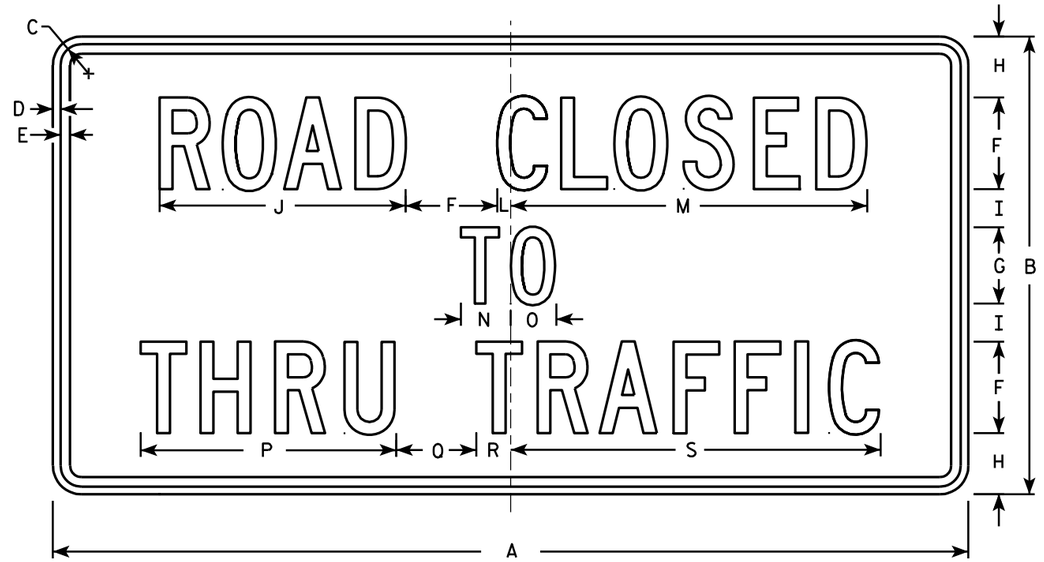
STANDARD SIGN
R11-2

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: 213	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

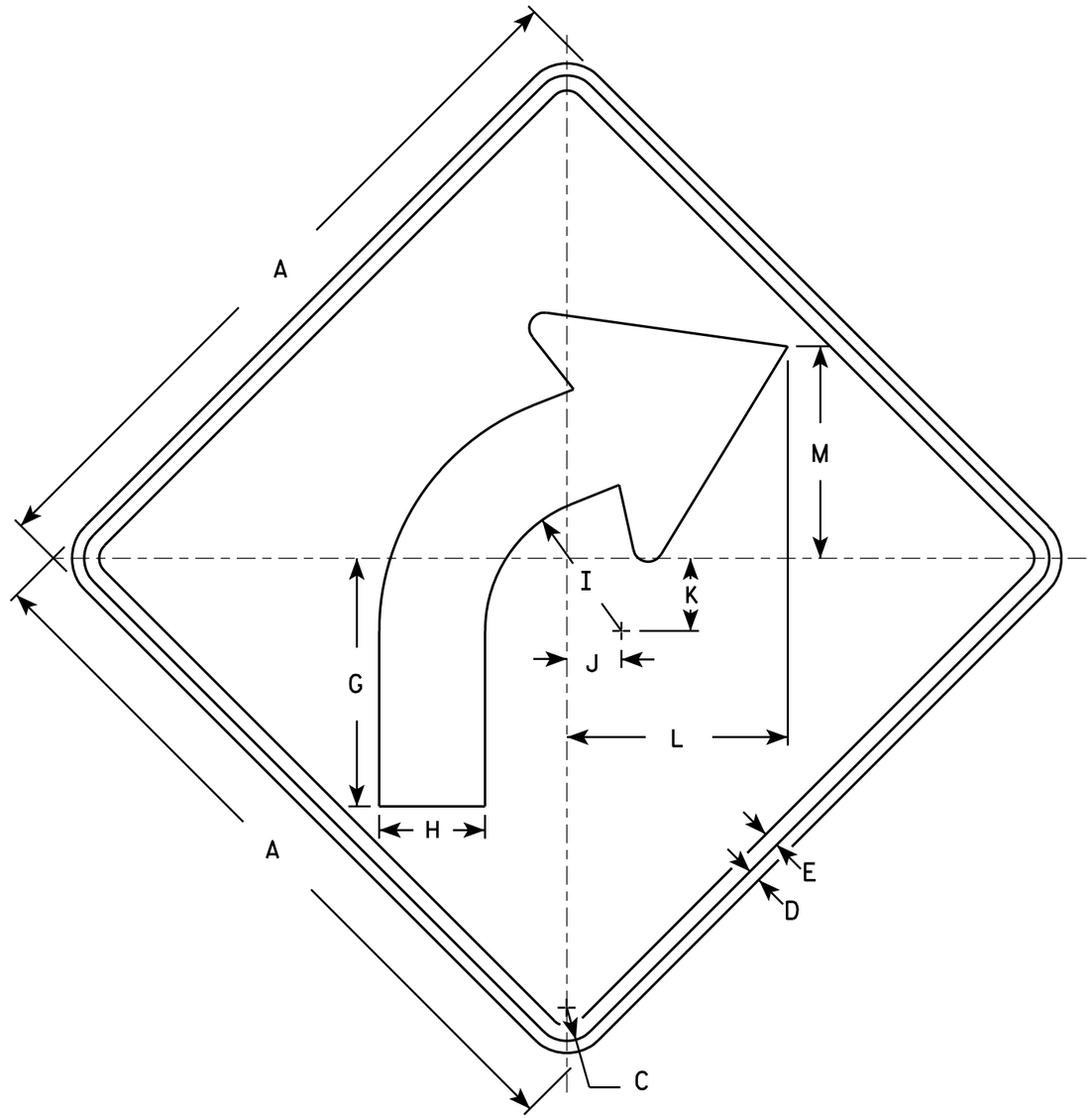
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

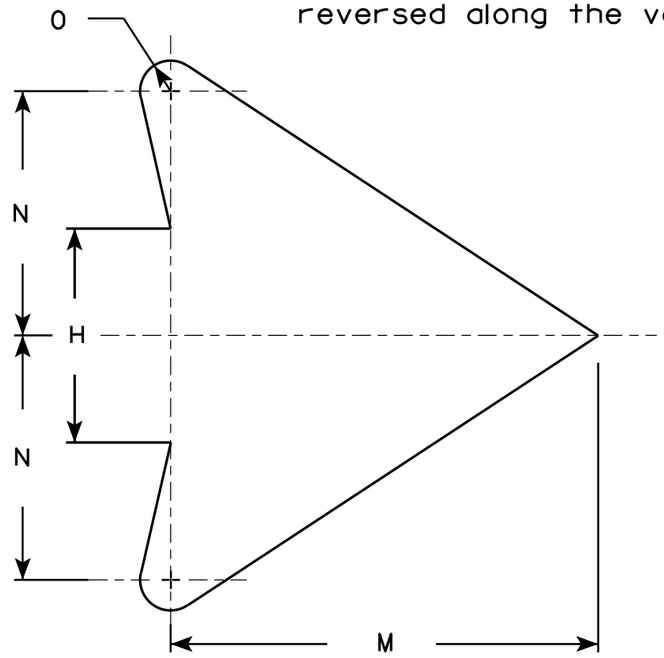
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 214 | E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



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		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

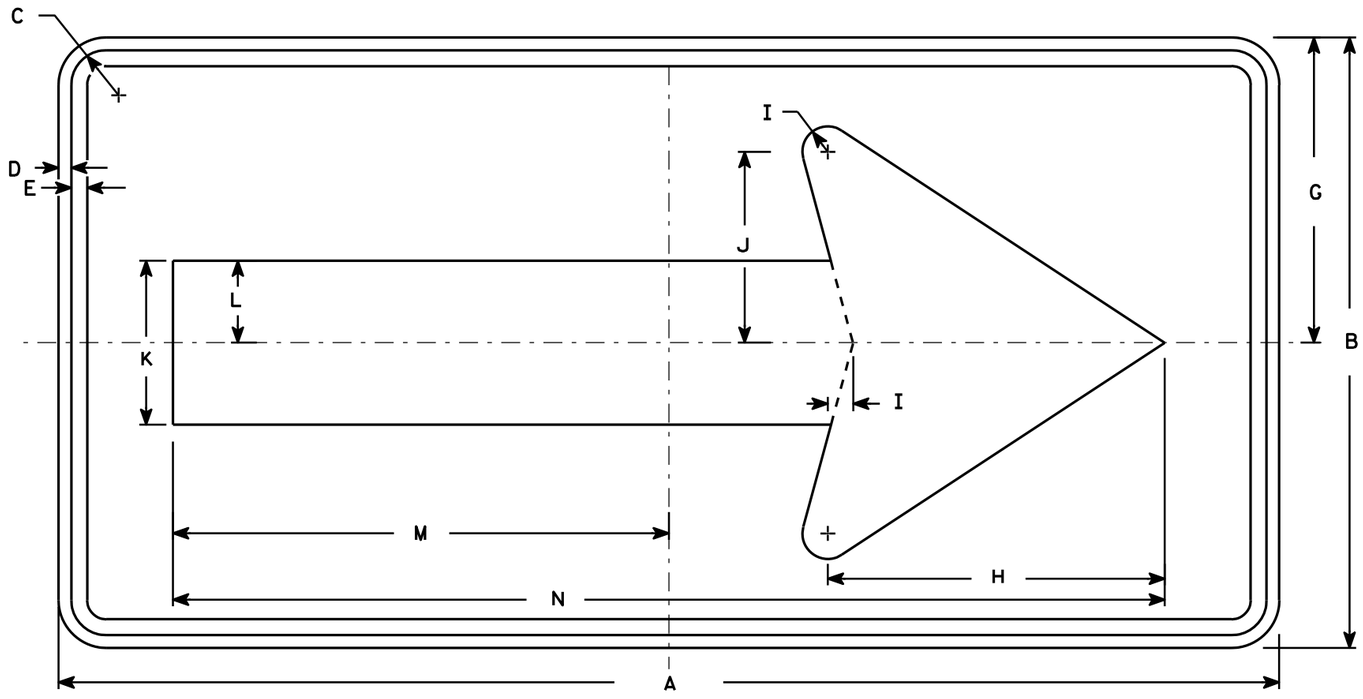
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
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	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

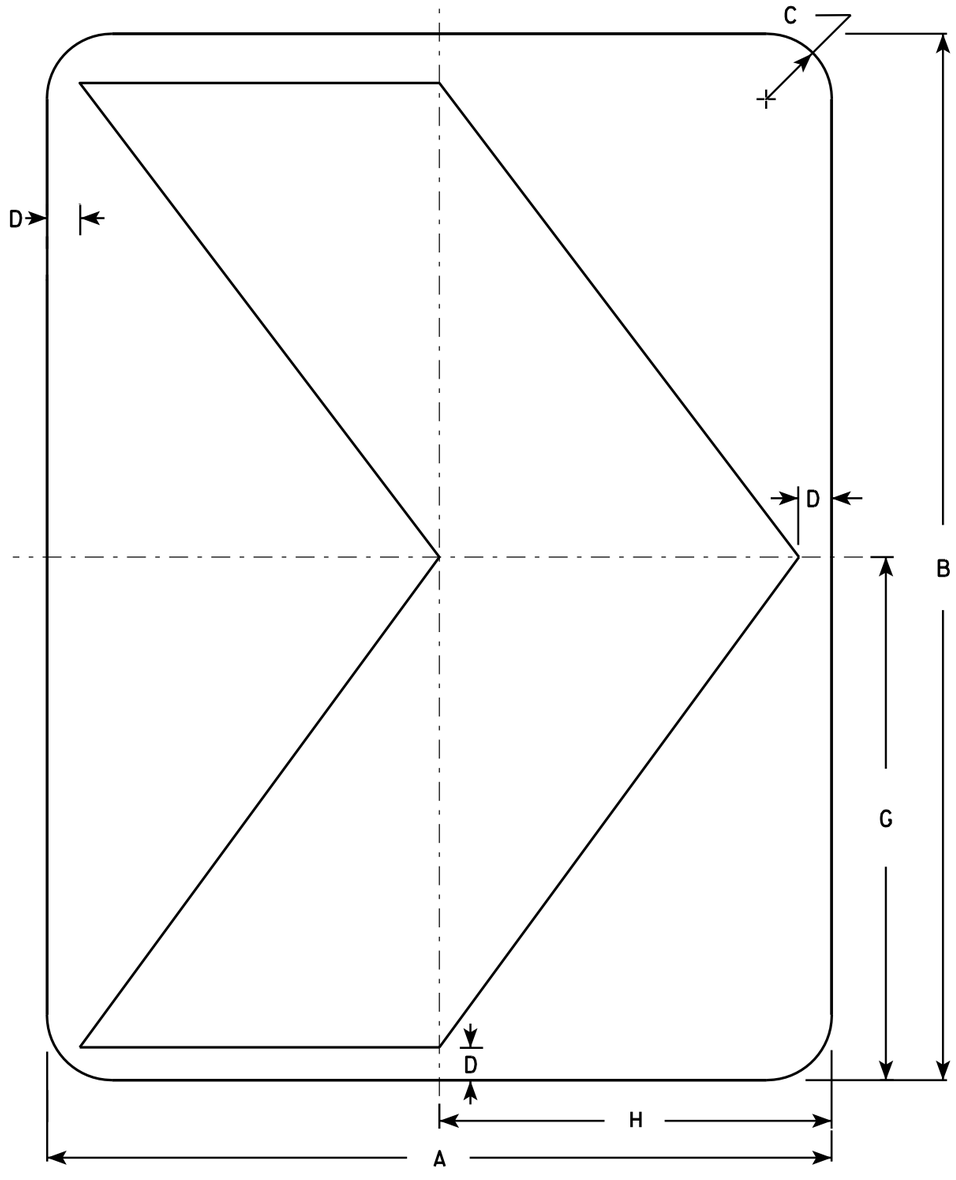
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 216



W1-8

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	12	18	1 ½	½			9	6																			1.5
2S	18	24	1 ½	¾			12	9																			3.0
2M	18	24	1 ½	¾			12	9																			3.0
3	24	30	1 ½	1			15	12																			5.0
4	30	36	1 ⅞	1 ¼			18	15																			7.5
5	36	48	2 ¼	1 ½			24	18																			12.0

STANDARD SIGN
W1-8

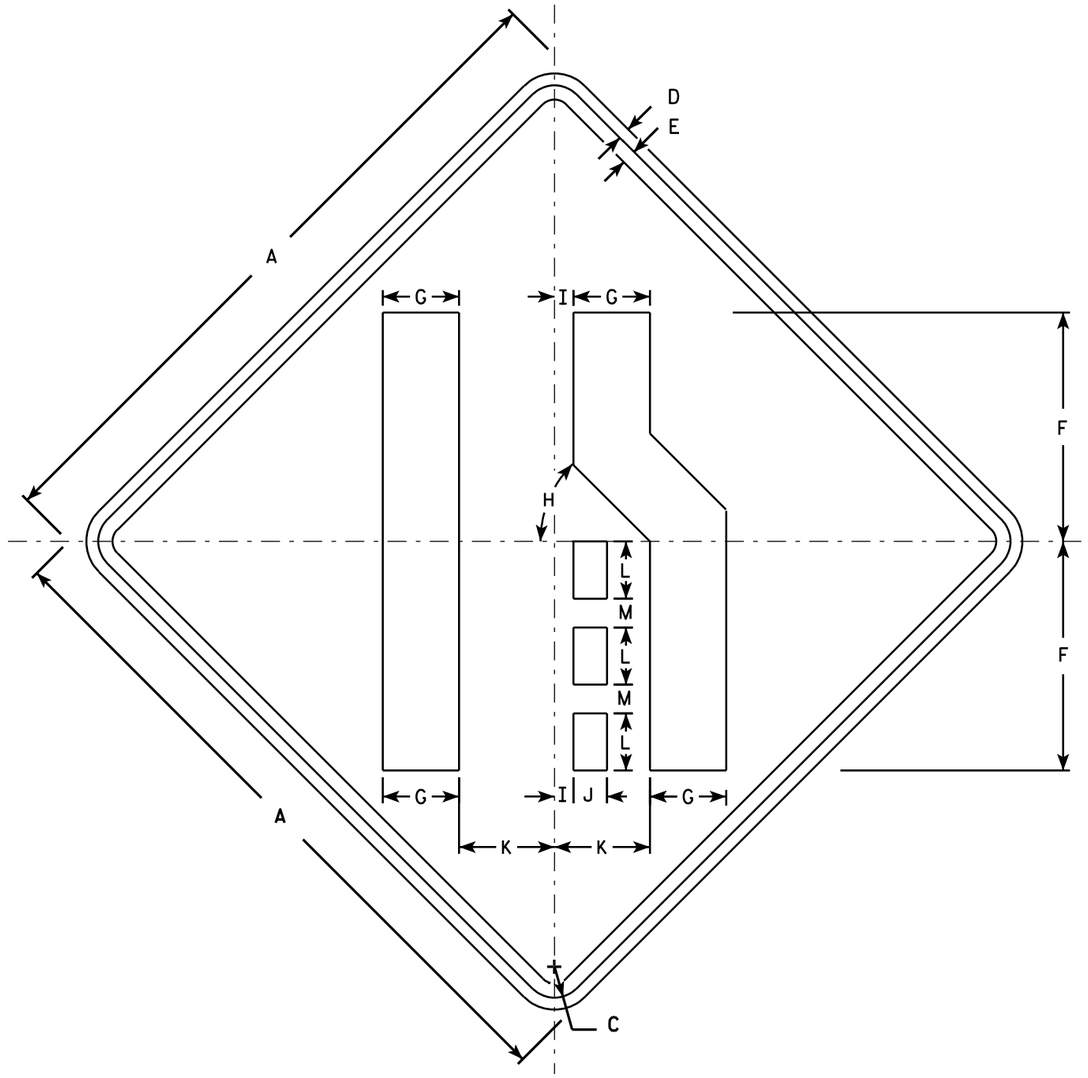
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

SHEET NO: 217 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

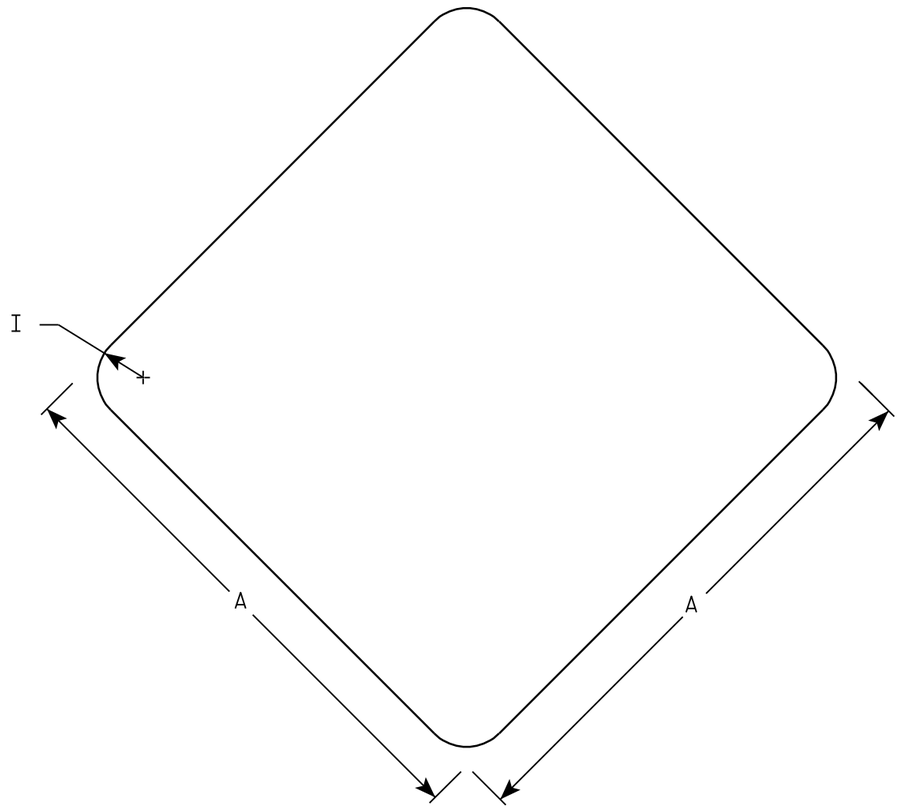
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 218 E



W5-54

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

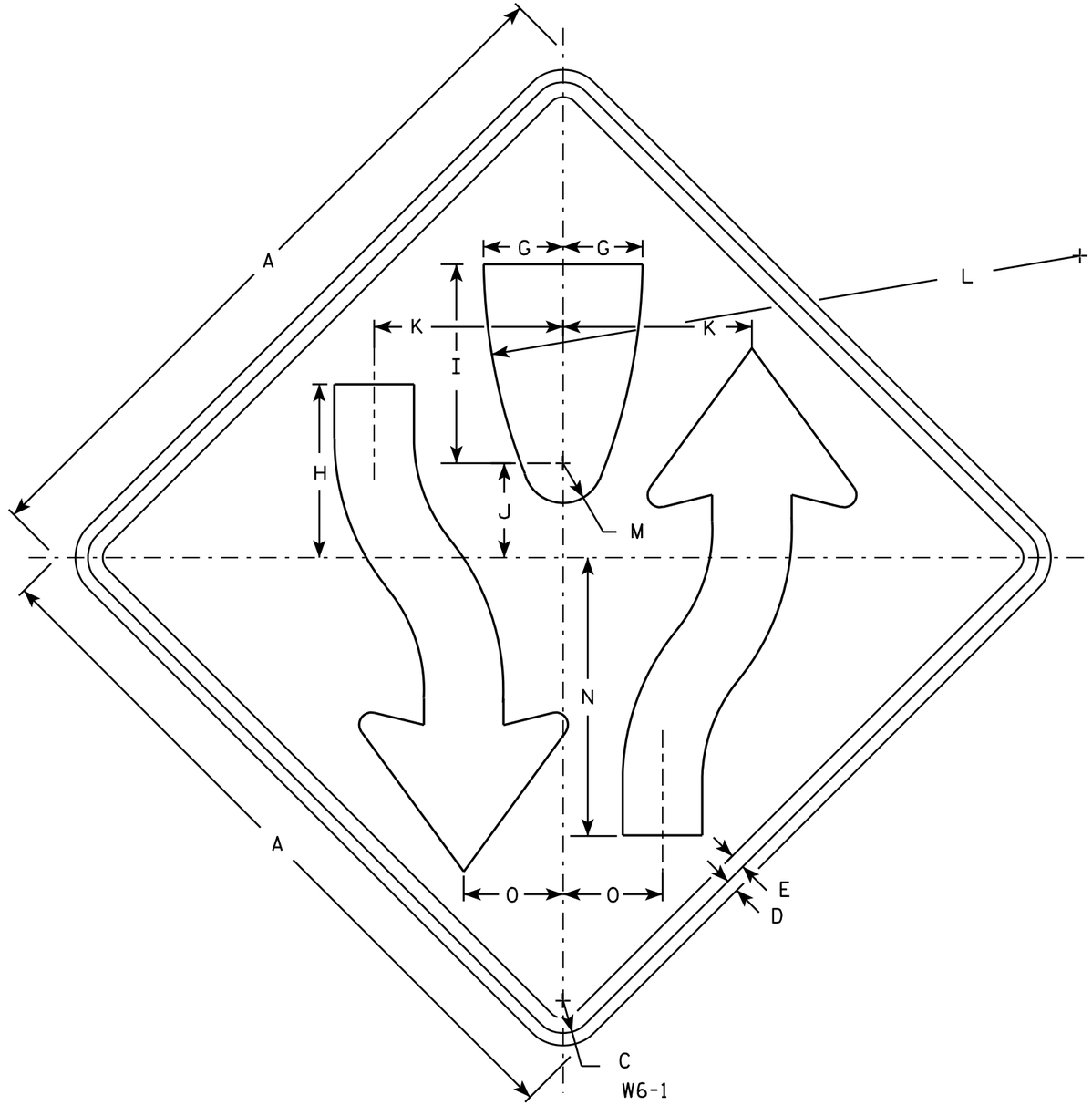
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

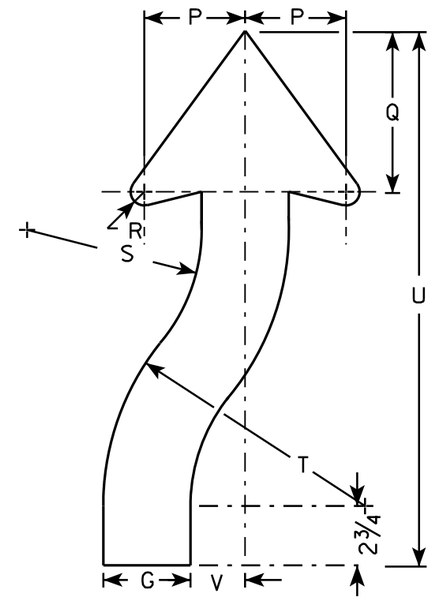
DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 219 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

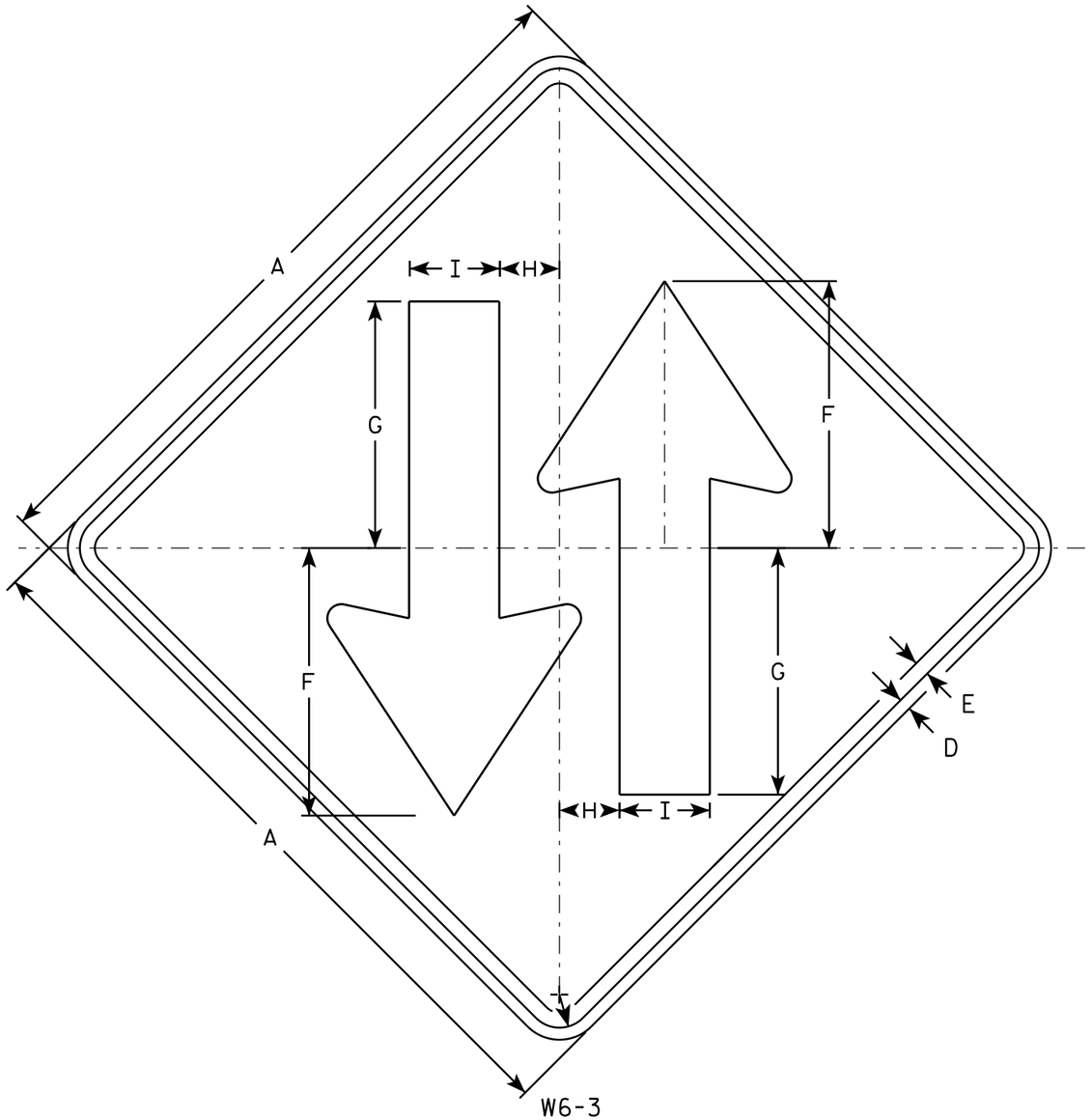
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 220	E

7

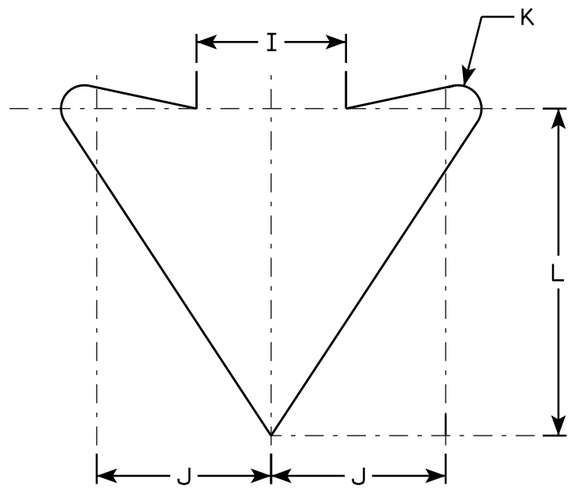
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

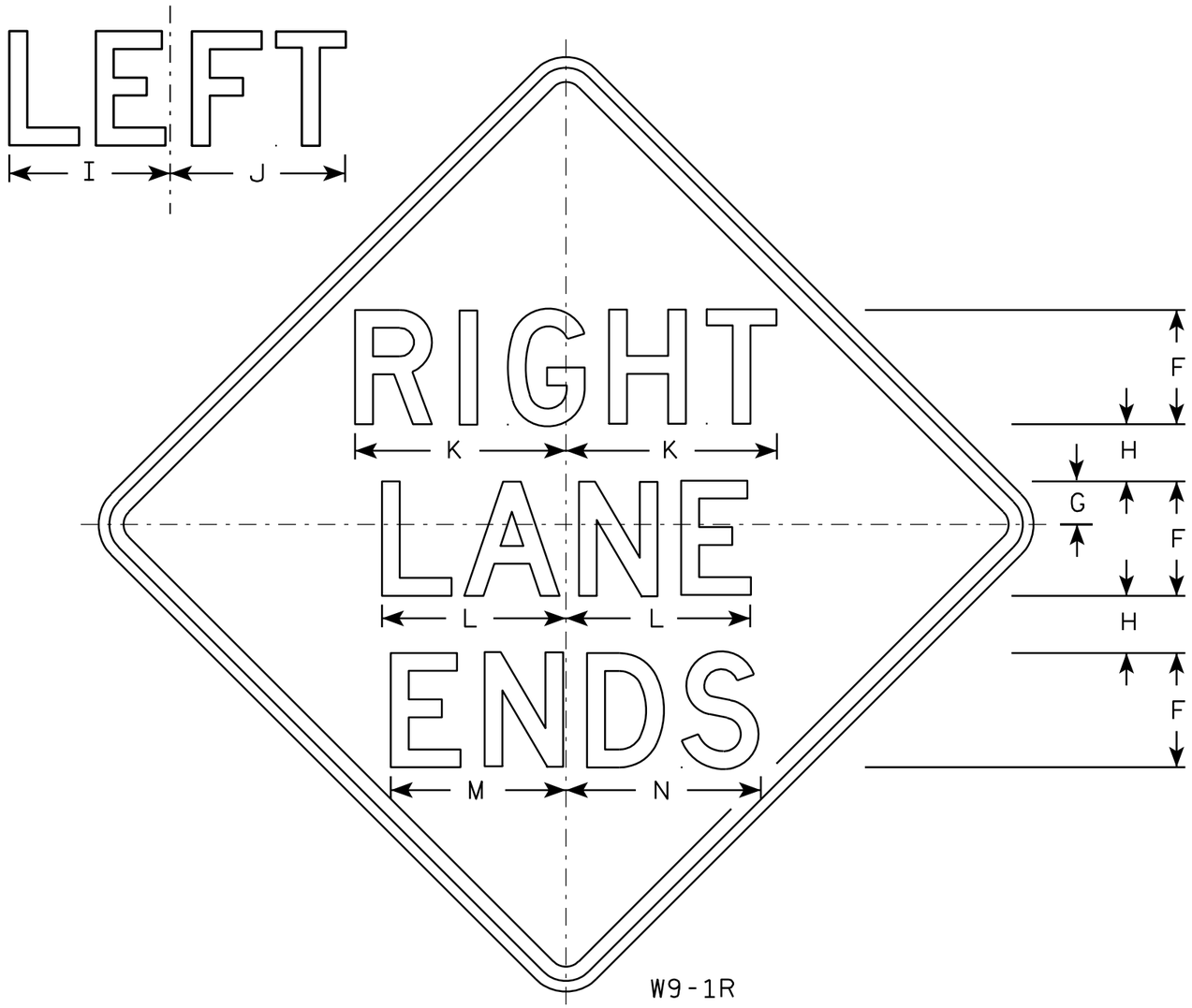
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



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

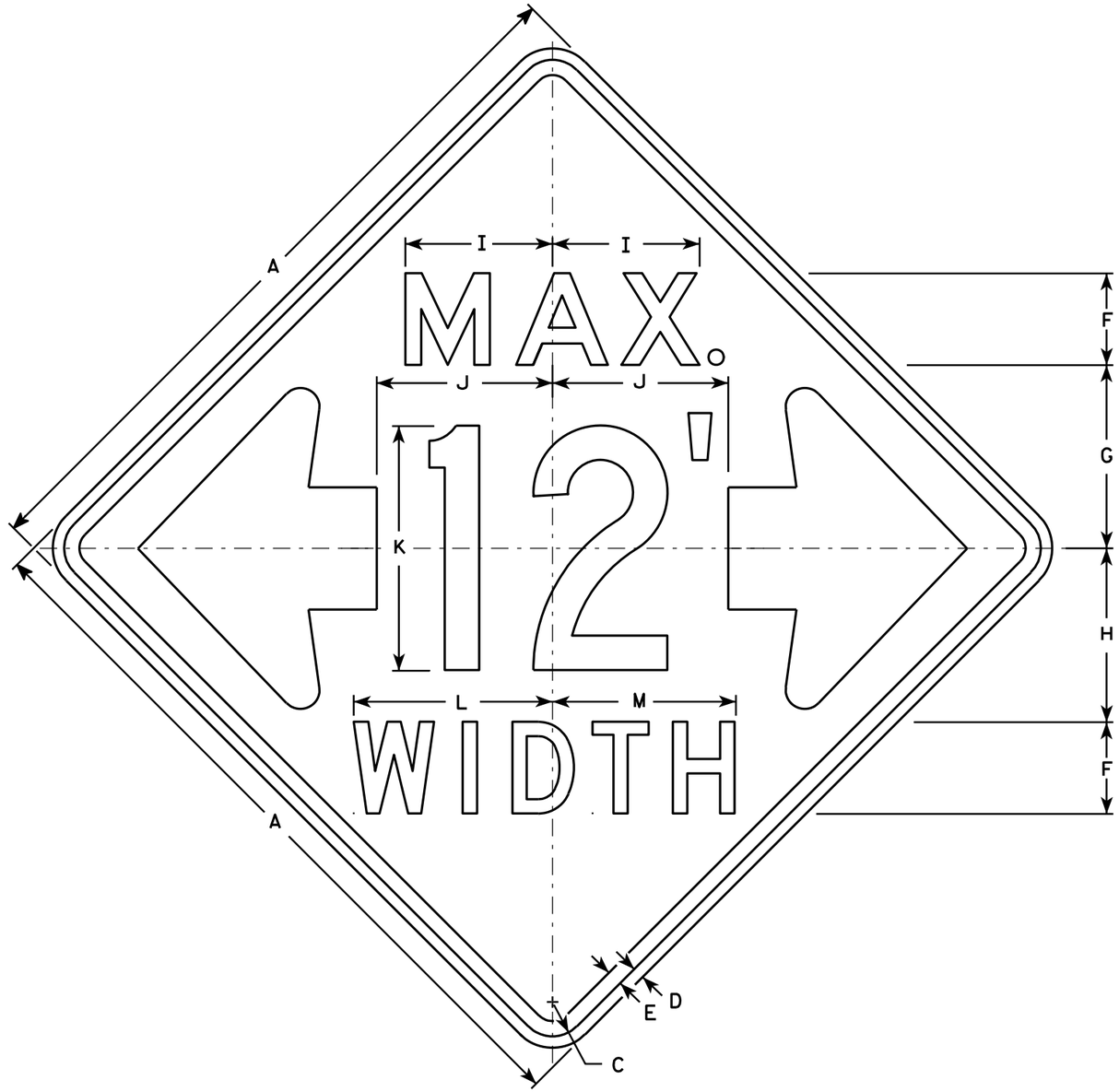
DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

SHEET NO: 222 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

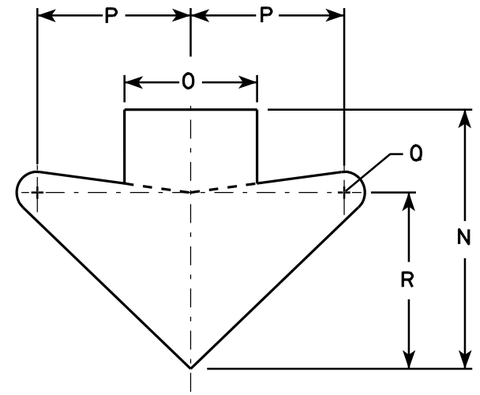
WISDOT/CADDS SHEET 42



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

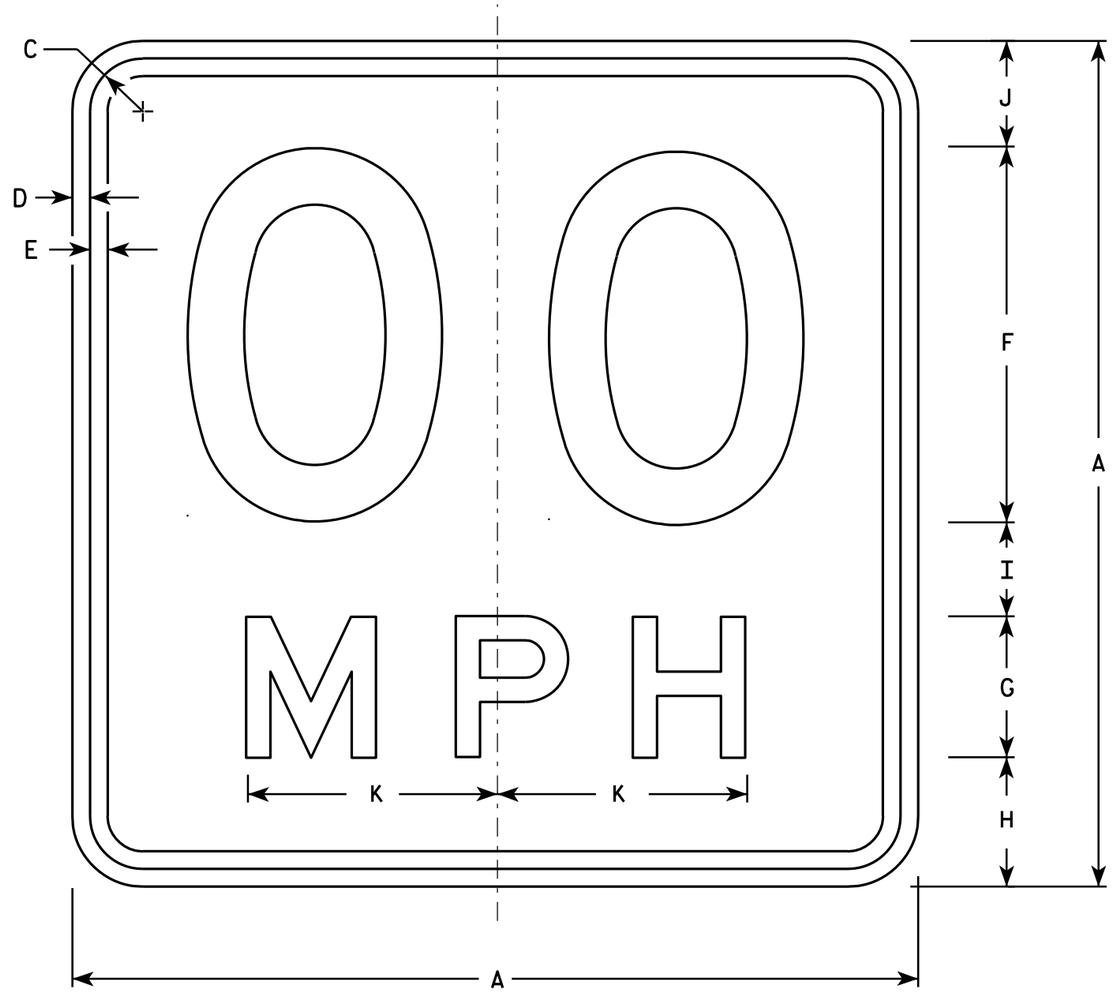
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 223 | E

7

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



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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 - 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. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

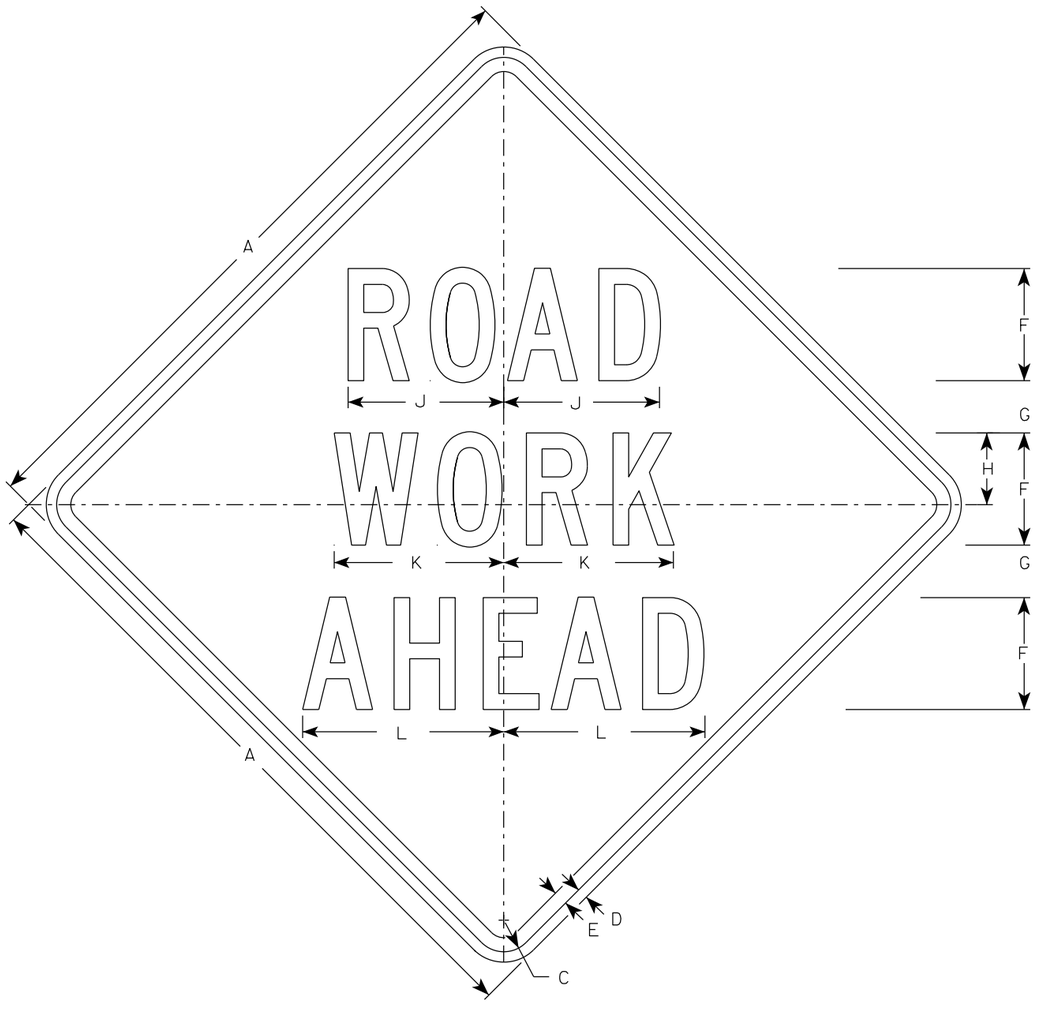
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

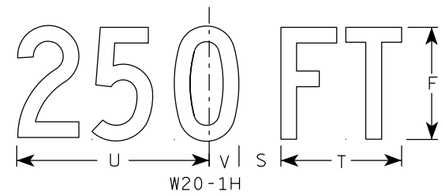
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

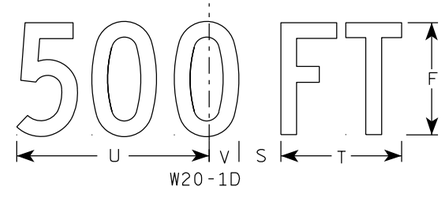
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 224	E



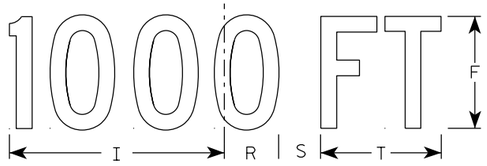
W20-1A



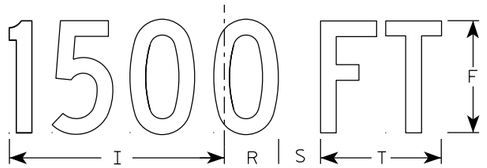
W20-1H



W20-1D



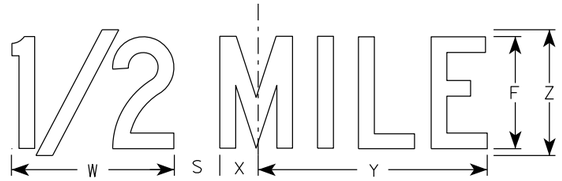
W20-1C



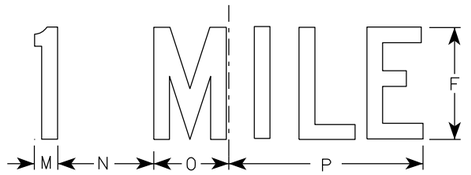
W20-1B

NOTES

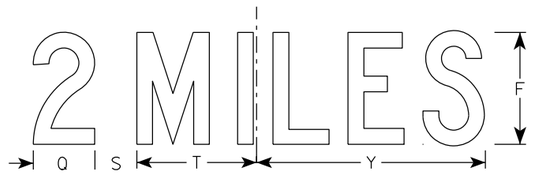
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



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:

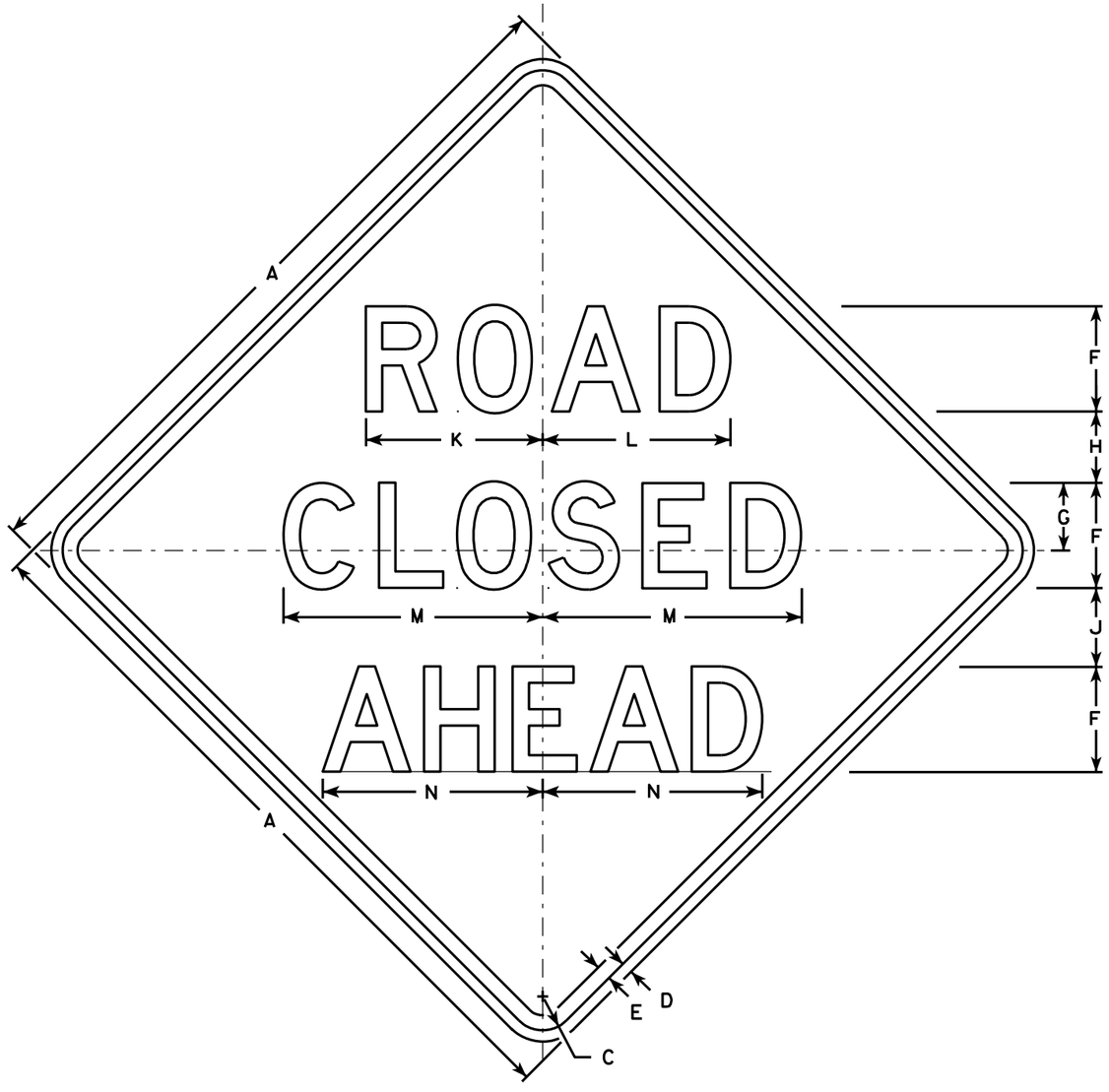
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

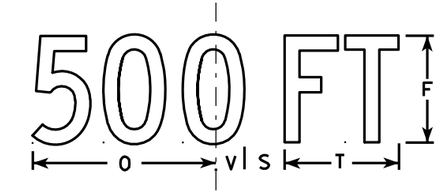
WISDOT/CADDS SHEET 42

7

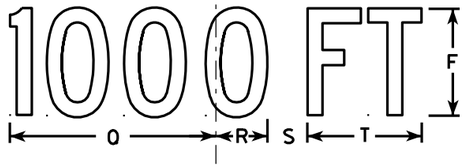
7



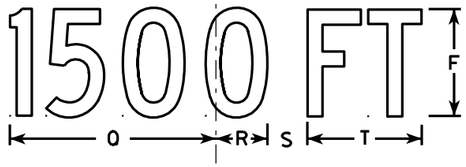
W20-3A



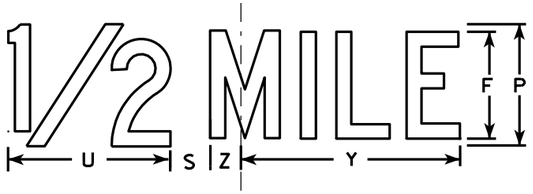
W20-3D



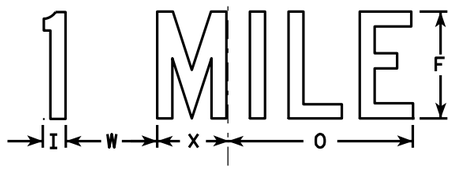
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

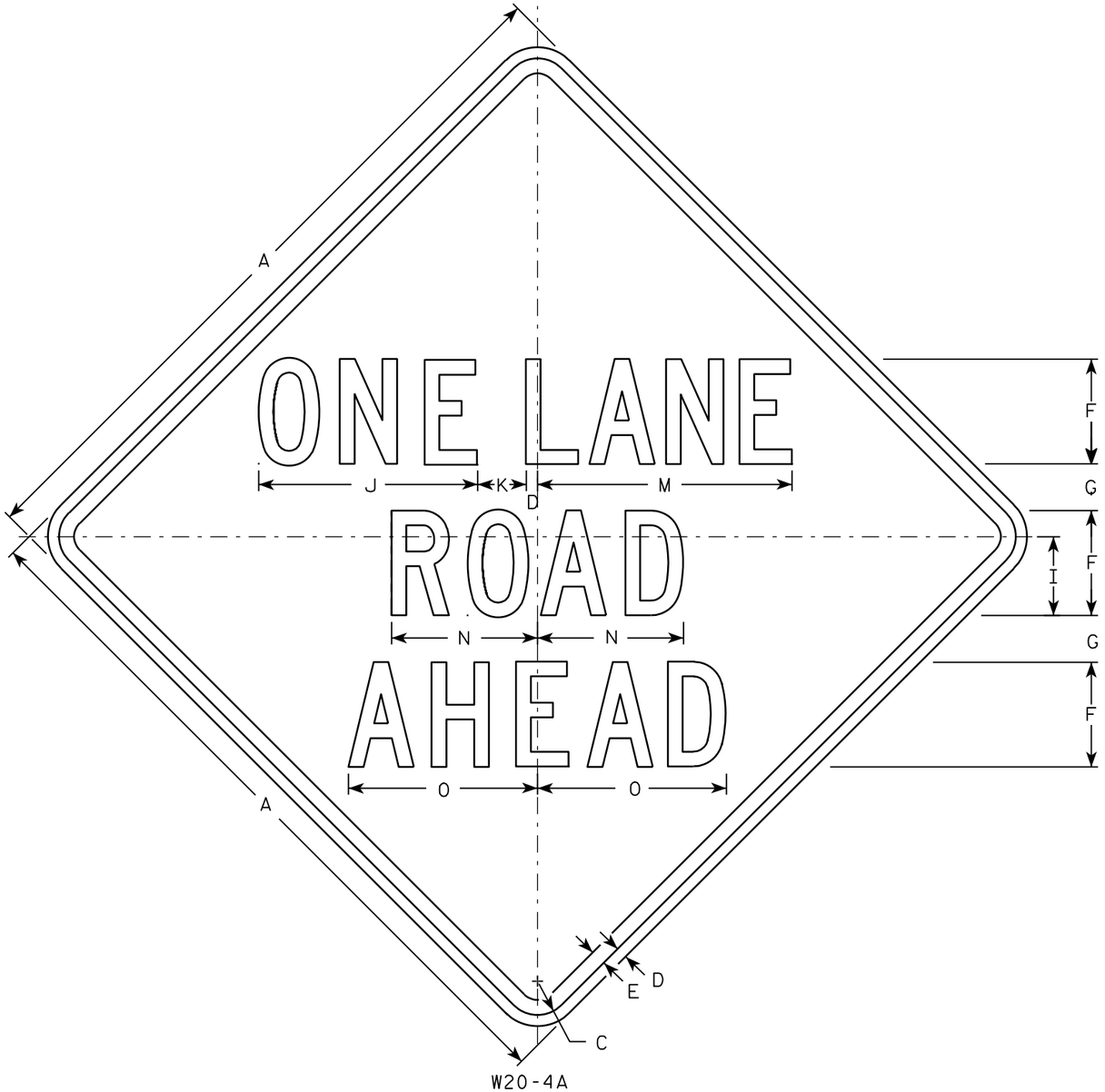
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

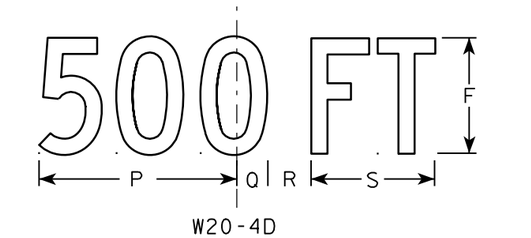
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

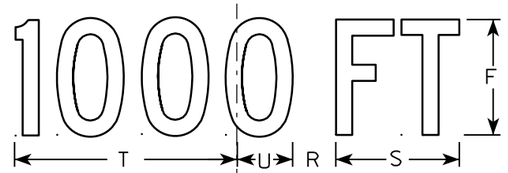
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 226 | E



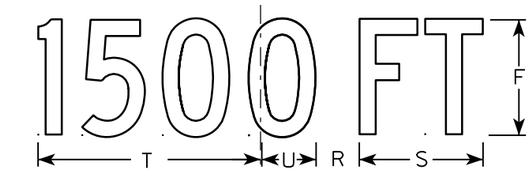
W20-4A



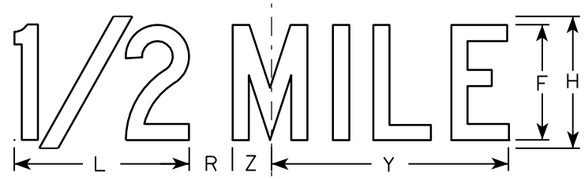
W20-4D



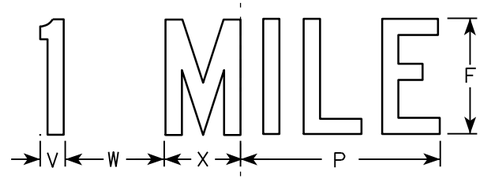
W20-4C



W20-4B



W20-4G



W20-4F

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	36		1 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	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	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

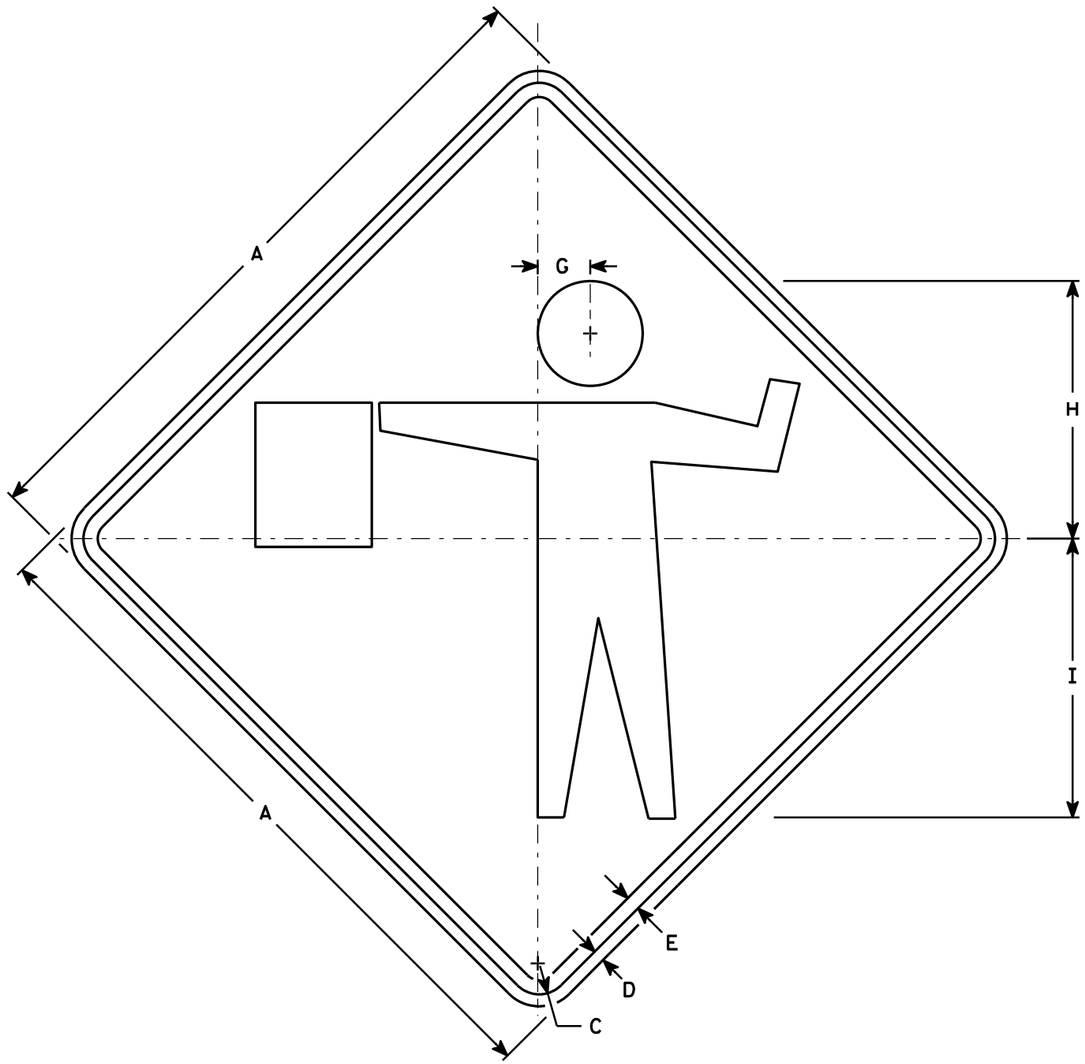
DATE 3/18/11 PLATE NO. W20-4.9

PROJECT NO:

SHEET NO: 227 E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W204.DGN PLOT DATE : 18-MAR-2011 12:11 PLOT BY : mscj9h



W20-7A

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	36		1 5/8	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.00
2S	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
3	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
4	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00

STANDARD SIGN
W20-7A

WISCONSIN DEPT OF TRANSPORTATION

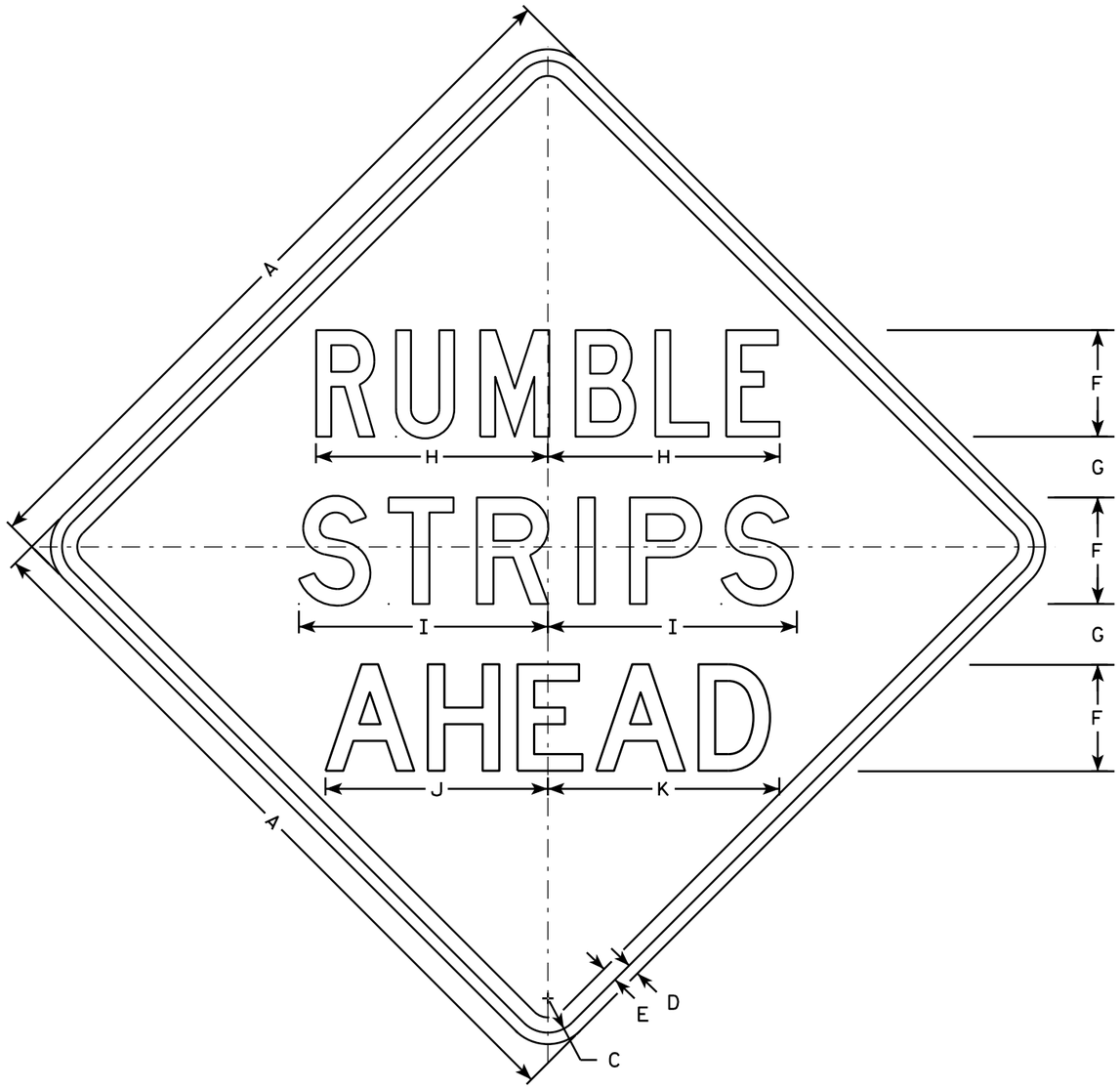
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-7A.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 228 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W207A.DGN PLOT DATE : 18-MAR-2011 13:14 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.945391:1.000000
WISDOT/CADDS SHEET 42



W21-65

NOTES

1. Sign is Type II - Type F Reflective
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 C
   Lines 2 and 3 are 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	36		1 5/8	5/8	3/4	5	3 1/4	10 7/8	11 5/8	11	11 5/8																9.0
2S	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
2M	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
3	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
4	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
5	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0

STANDARD SIGN

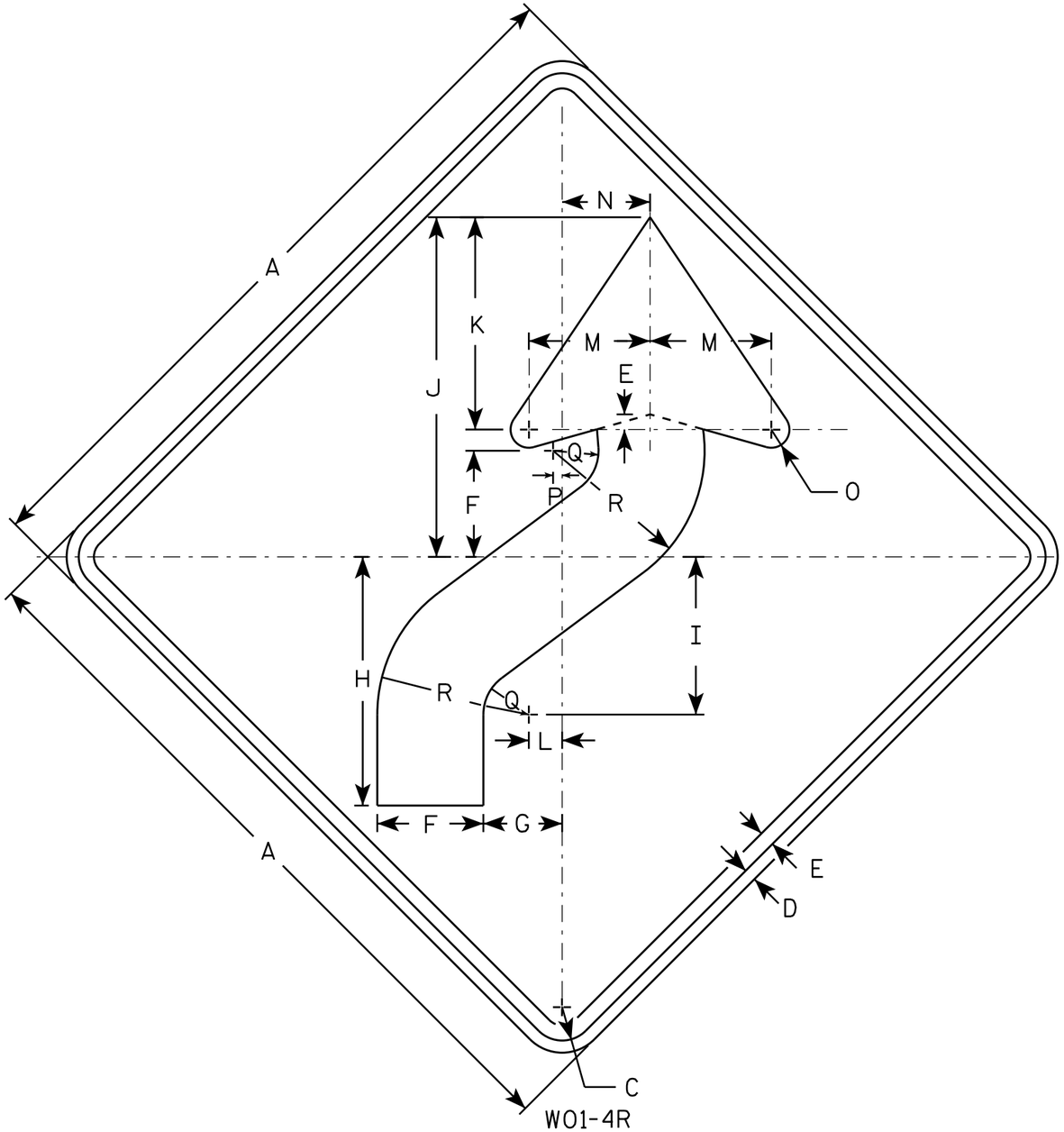
W21-65

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE W21-65.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

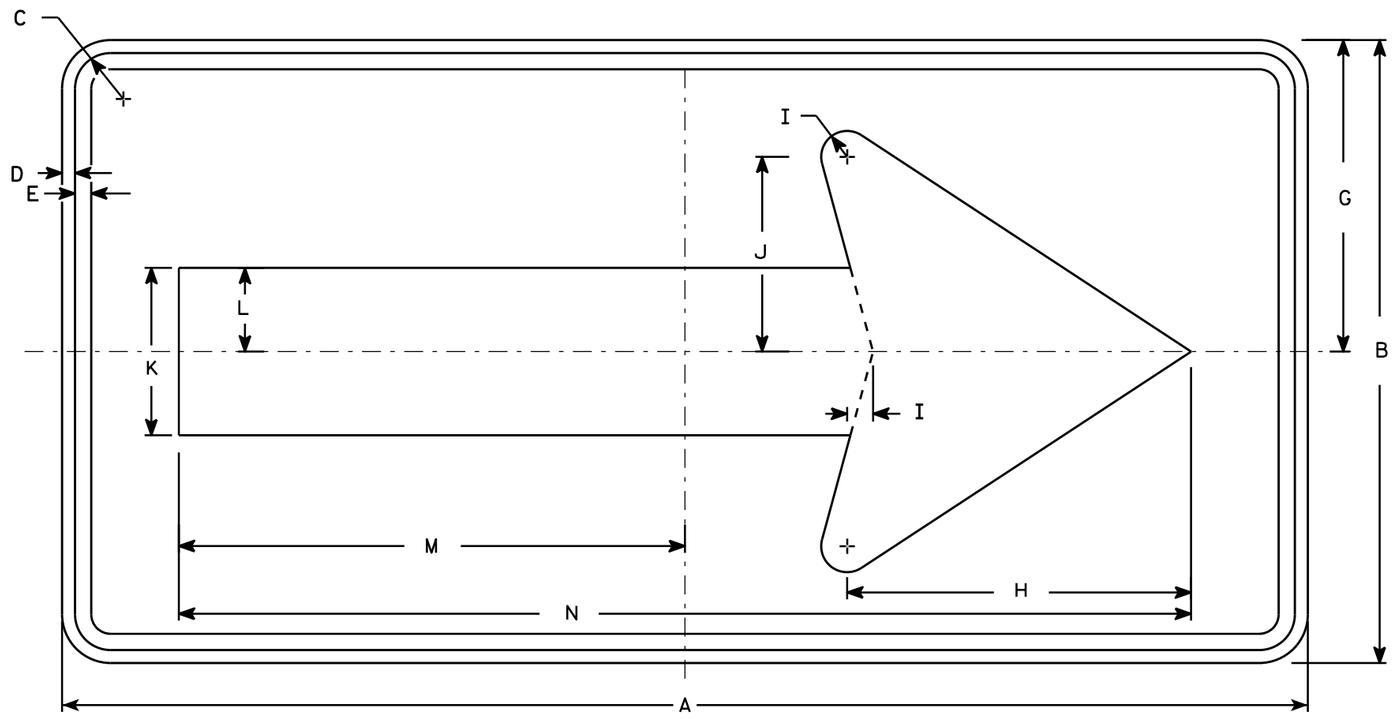
WISCONSIN DEPT OF TRANSPORTATION

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

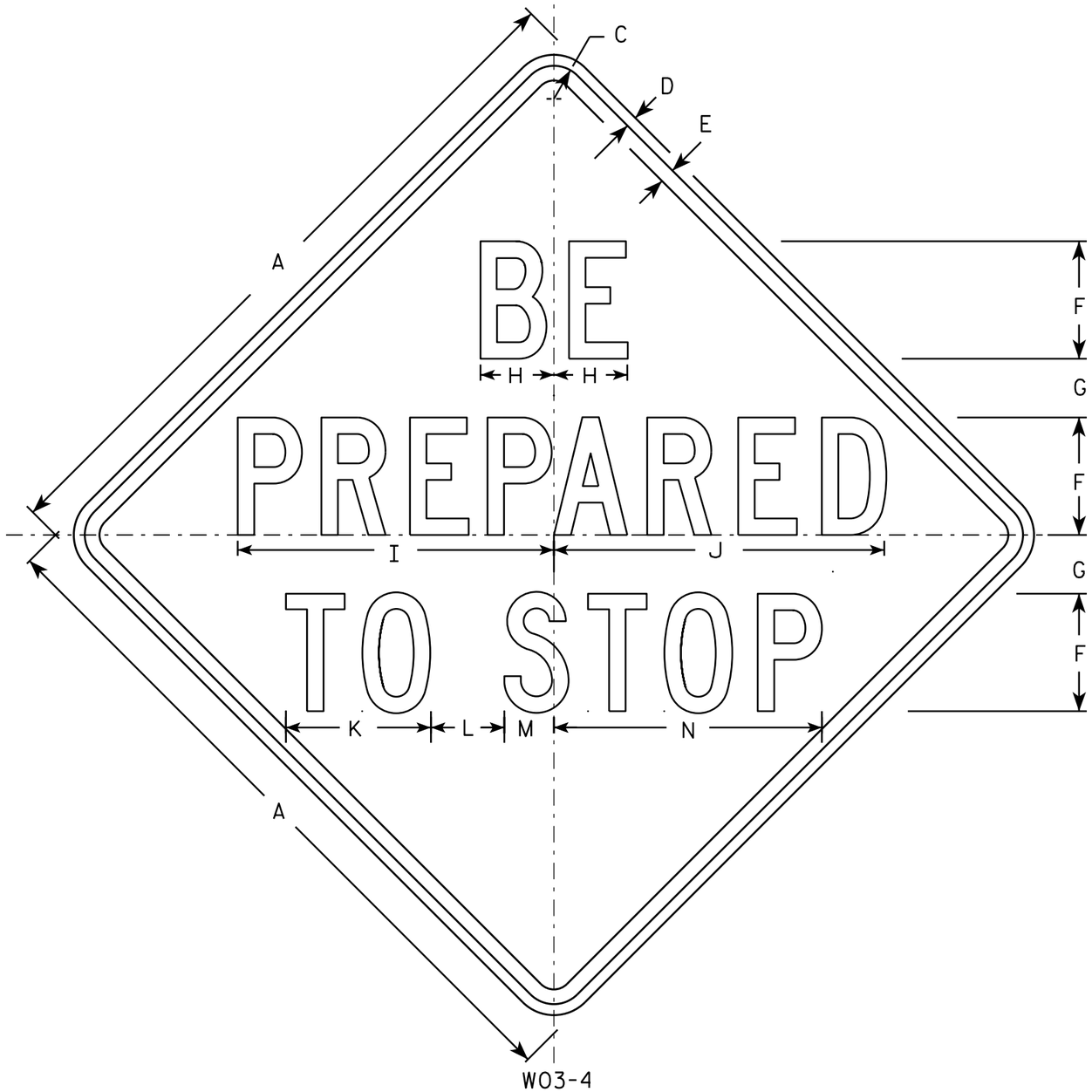
WISCONSIN DEPT OF TRANSPORTATION

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



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	36		1 3/8	1/2	5/8	6	2 1/2	3 3/4	15 7/8	16 7/8	7 3/8	4	2 3/8	13 3/4													9.0
2S	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
2M	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
3	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
4	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
5	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0

STANDARD SIGN
W03-4

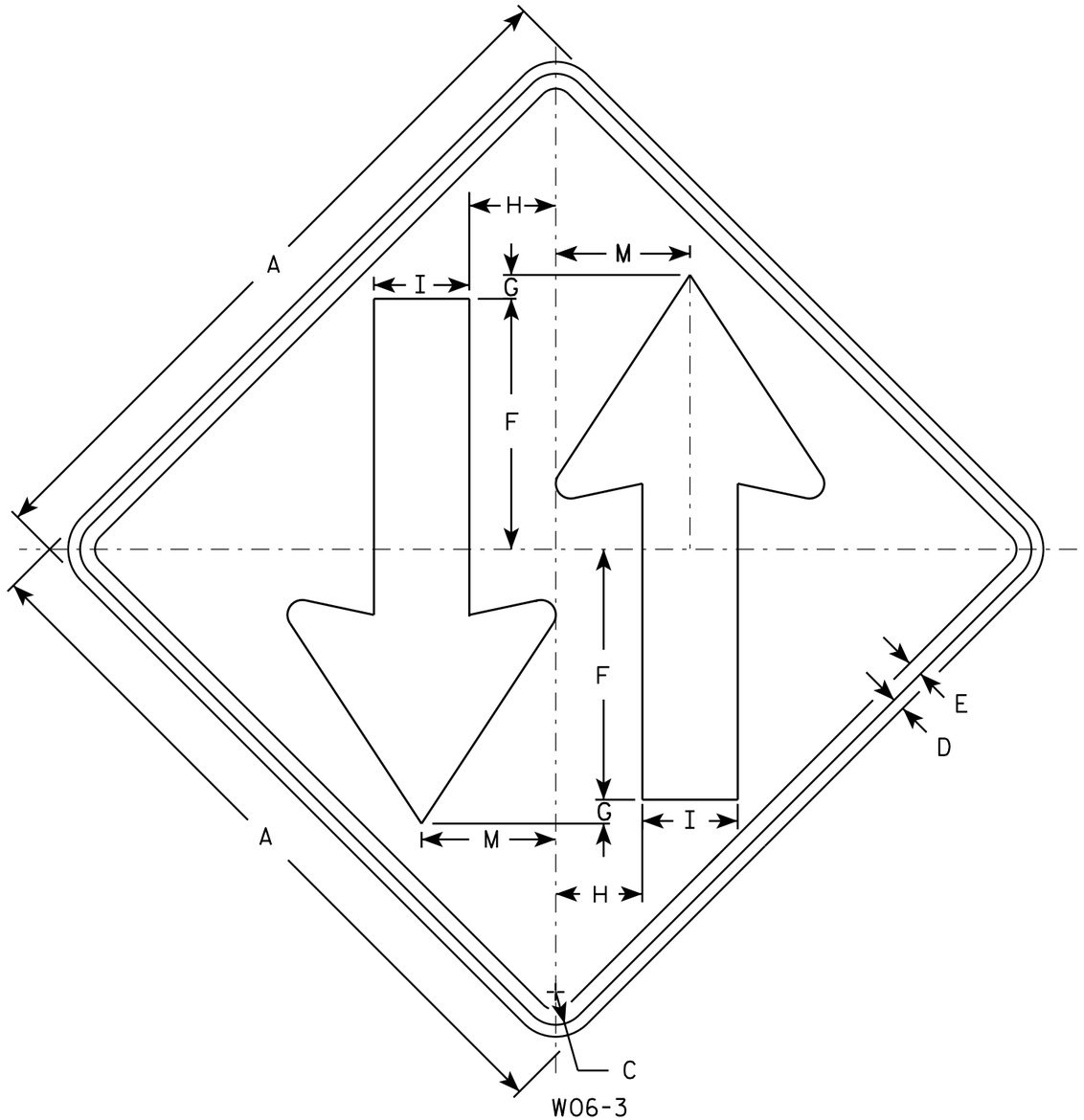
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/02/13 PLATE NO. W03-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

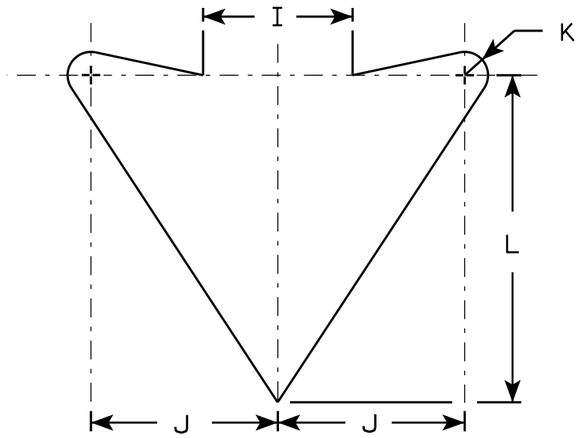
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W034.DGN PLOT DATE : 02-DEC-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 8.999518:1.000000
WISDOT/CADDS SHEET 42



W06-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

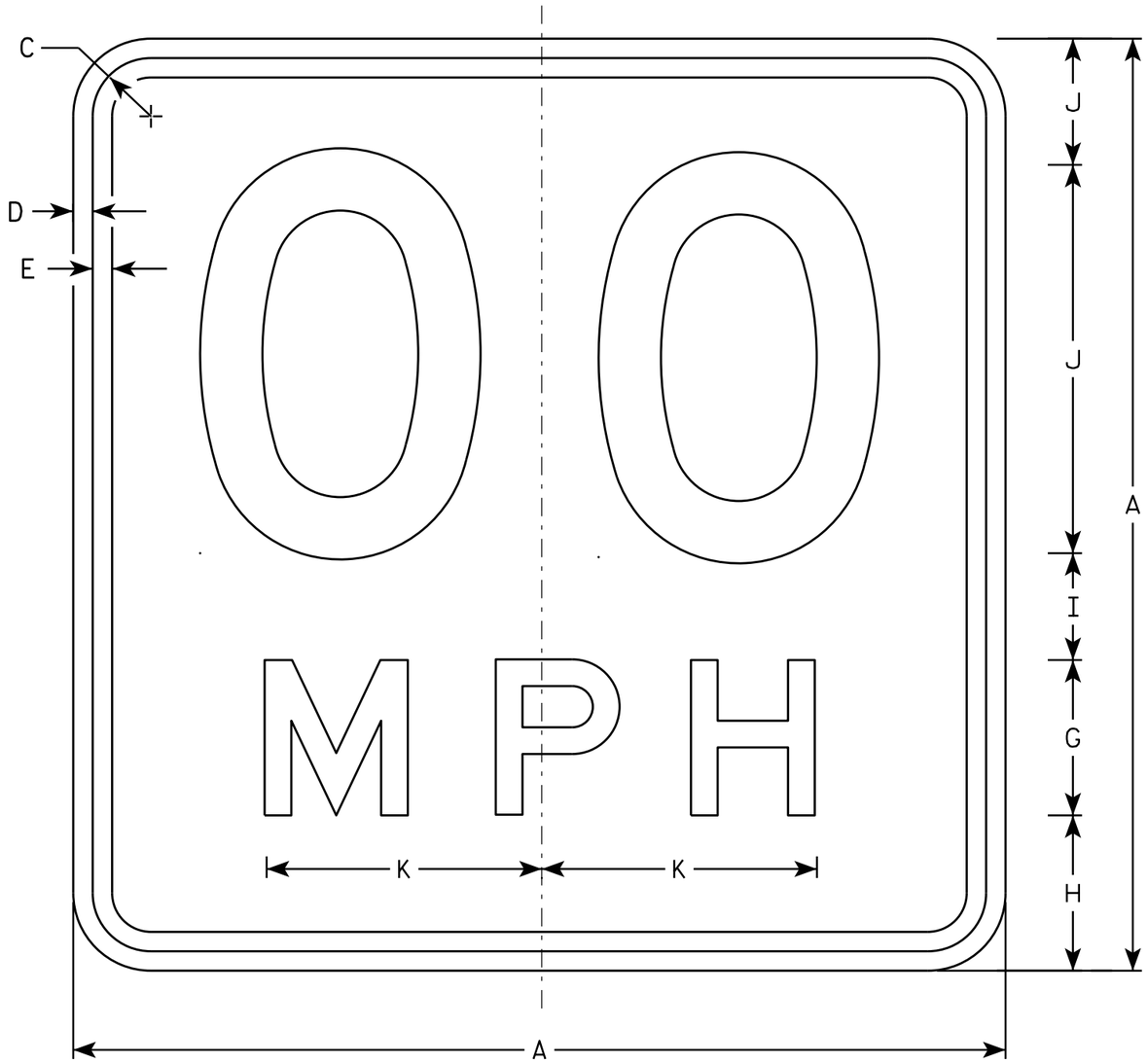
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 233 W06-3.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
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. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

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	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

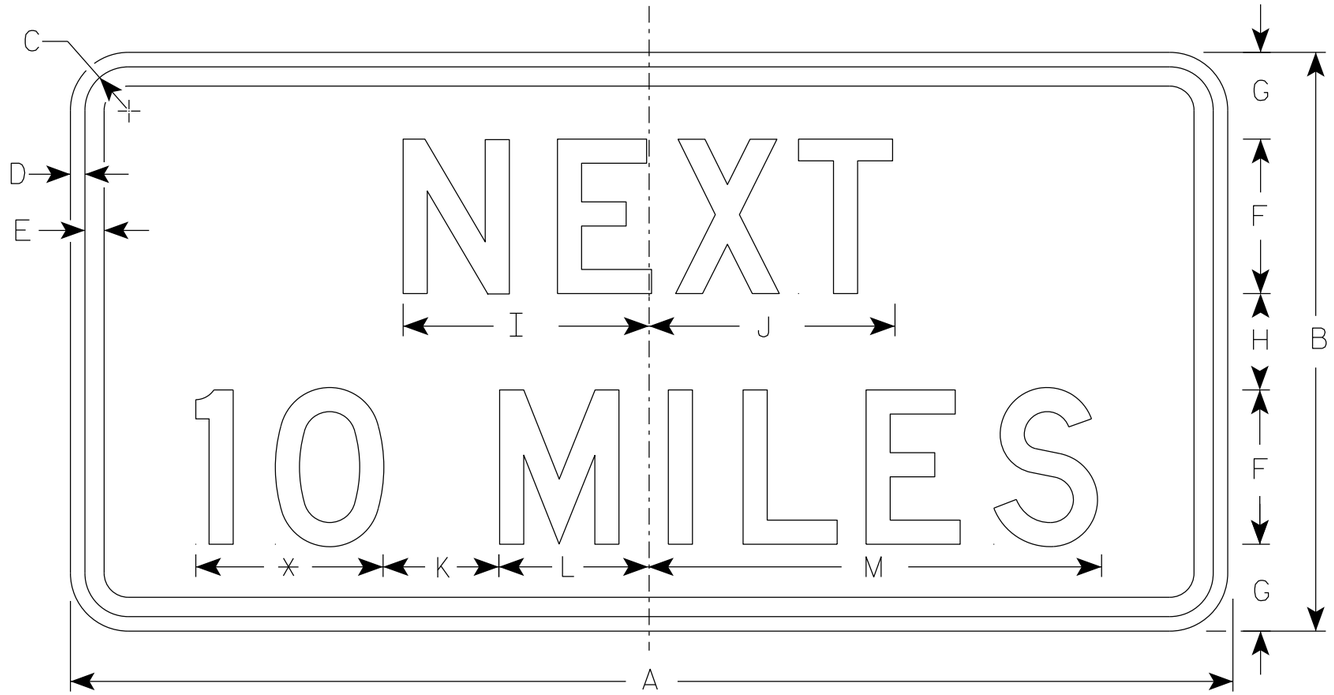
STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 234 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W057-51

* See note 5

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. Round distance to the nearest whole Mile and 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	36	18	1 1/8	3/8	1/2	5	2 3/4	2 1/2	7 7/8	8	5	4 1/8	15 3/8														4.5
2S	48	24	1 3/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
2M	48	24	1 3/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
3	48	24	1 3/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
4	48	24	1 3/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 3/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0

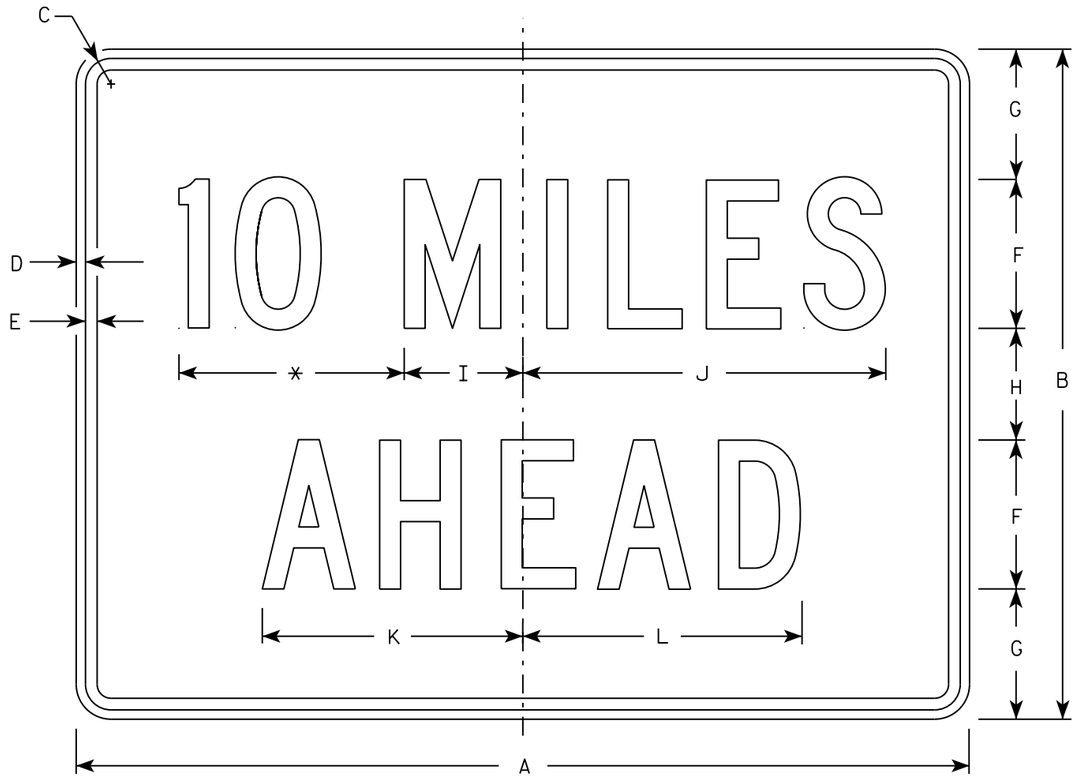
STANDARD SIGN
W057-51

WISCONSIN DEPT OF TRANSPORTATION

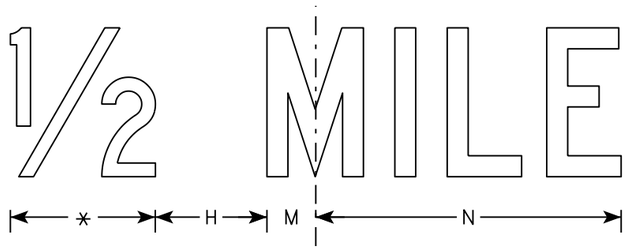
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/1/19 PLATE NO. W057-51.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 235	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

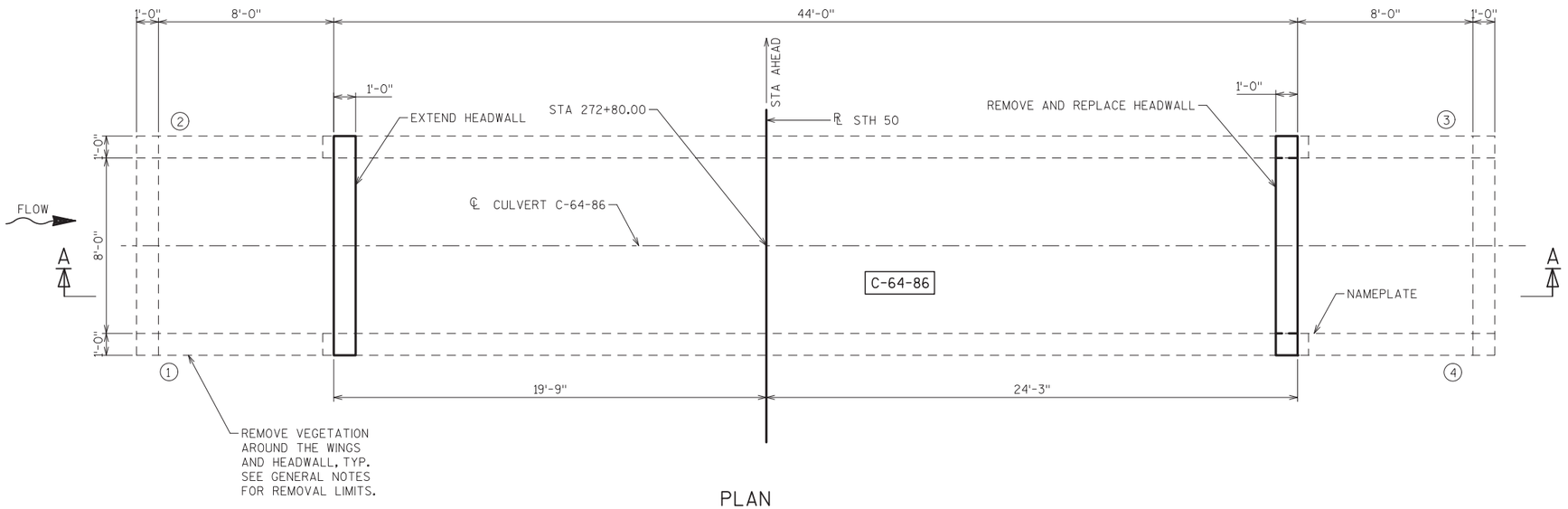
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 236	E

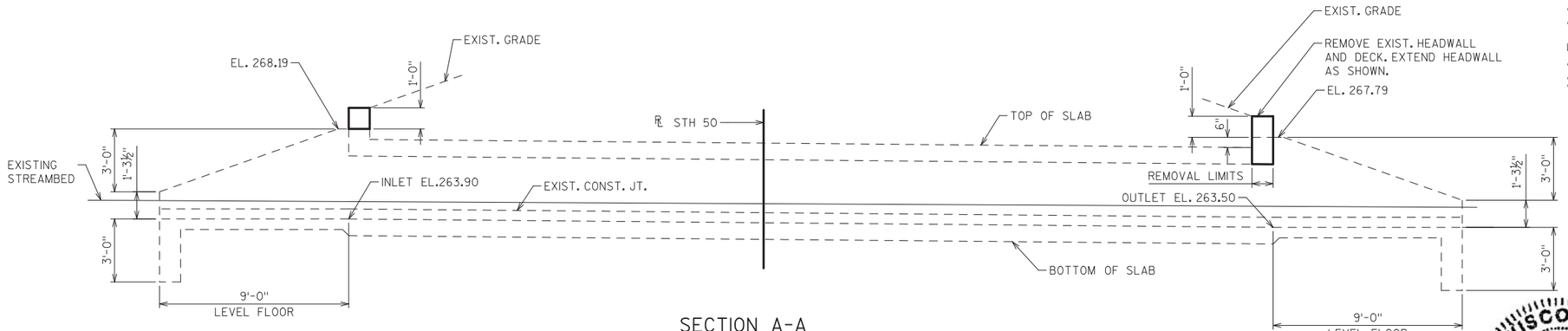
STATE PROJECT NUMBER
3170-12-70

X DENOTES WING NUMBER



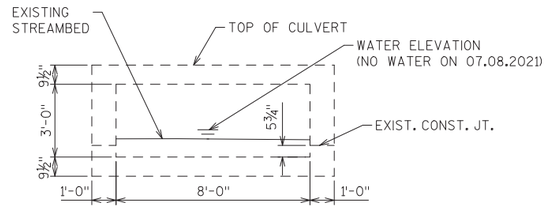
PLAN

(8'x3' SINGLE CELL CULVERT)



SECTION A-A

(LOOKING EAST)



SECTION THRU BOX

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. ESTIMATE OF QUANTITIES

DESIGN DATA

LIVE LOAD

DESIGN LOAD: HS20
INVENTORY RATING FACTOR : 1.0
OPERATING RATING FACTOR : 1.67
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV):.....190 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT, GRADE 60 ..... fy = 60,000 psi

TRAFFIC DATA

STH 50

A.D.T. (2022) = 10,880
A.D.T. (2043) = 12,210
DESIGN SPEED = 60 mph

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

ALL DIMENSIONS ARE IN FEET AND INCHES.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCH CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4 INCH UNLESS OTHERWISE NOTED.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK. EXISTING BARS SHALL BE CLEANED AND STRAIGHTENED.

DIMENSIONS AND ELEVATIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS, UNLESS SHOWN OTHERWISE.

ALL CONCRETE REMOVAL LIMITS SHALL BE DEFINED BY A 1 INCH DEEP SAWCUT.

ANY EXCAVATION REQUIRED TO COMPLETE THE REPAIR OF CULVERT HEADWALL AND TOP SLAB IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY CULVERTS".

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. THE NEW NAME PLATE SHALL SHOW THE ORIGINAL CONSTRUCTION YEAR. ORIGINAL CONSTRUCTION YEAR IS 1930. ATTCH THE NAME PLATE TO EXISTING WING WITH RESIN ANCHORS.

PART OF EXISTING HEADWALL AND TOP SLAB SHALL BE REMOVED AND REPLACED IN THIS CONTRACT.

PLANS OF THE EXISTING CULVERT ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION.

CONCRETE SURFACE REPAIR AND EPOXY CRACK SEALING REQUIRED IN AREAS DESIGNATED BY THE FIELD ENGINEER. QUANTITIES SHOWN ARE APPROXIMATE AND UNDISTRIBUTED.

UNDER THE BID ITEM "REMOVING VEGETATION C-64-86" REMOVE ALL VEGETATION WITHIN 10 FEET FROM THE FACE OF WINGWALLS AND HEADWALLS AT BOTH ENDS OF THE CULVERT, INCLUDING THE VEGETATION WITHIN THE STREAM, AND AS DIRECTED BY THE ENGINEER.



STRUCTURE DESIGN CONTACTS

BUREAU OF STRUCTURES CONTACT:
AARON BONK
(608) 261-0261

CONSULTANT CONTACT:
YAN NENAYDYKH
(414) 292-4599

NO.	DATE	REVISION	BY

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity
10501 W. Research Drive • Milwaukee, WI 53226
Phone: (414) 771-3390 Fax: (414) 771-4490

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ SDR 02/09/22
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-64-86

STH 50 OVER DRAINAGE WAY

COUNTY	CITY
WALWORTH	DELAVAN

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BDT	JA	BDT	JA

GENERAL PLAN AND ELEVATION

SHEET 1 OF 2

237

I.D. 3170-12-00 DEC 2021

FILE NAME: X:\BMI-3800 STH 50 Delavan - Lake Geneva\5_Design\04_Structures_Bridges\current plans\C-64-86\01_general plan.dgn
DATE: 2/1/2022 4:18:19 PM Plotted by: bthengan PEN TABLE: V8_STRUCTURAL_REV.TBL

8

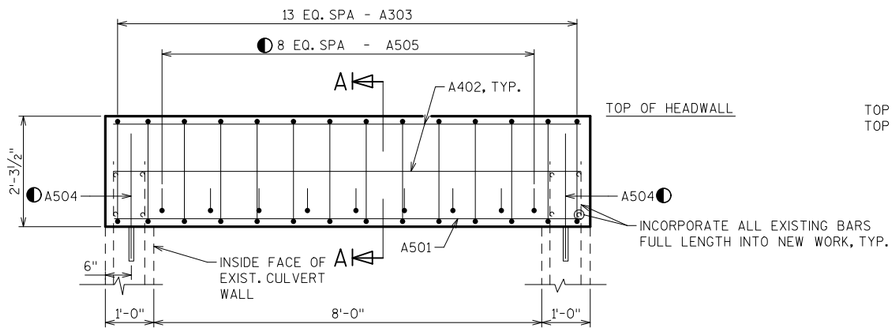
8

STATE PROJECT NUMBER
3170-12-70

TOTAL ESTIMATED QUANTITIES

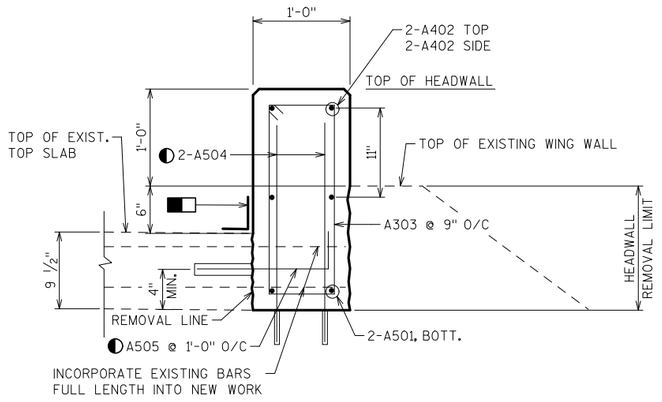
ITEM NUMBER	BID ITEMS	UNIT	TOTAL
203.0220	REMOVING STRUCTURE C-64-86	EACH	1
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	24
504.0100	CONCRETE MASONRY CULVERTS	CY	2
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	170
509.1500	CONCRETE SURFACE REPAIR	SF	10
509.9020.S	EPOXY CRACK SEALING	LF	40
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	2
SPV.0060.03	REMOVING VEGETATION C-64-86	EACH	1
	NON BID ITEMS		
	NAME PLATE	EACH	1

ALL ITEMS ARE CATEGORY 0110

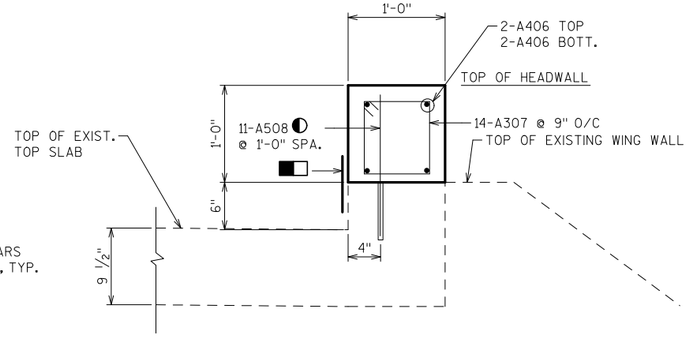


SOUTH HEADWALL ELEVATION

(LOOKING NORTH)



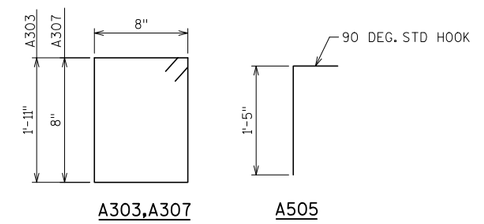
SECTION A-A



SECTION THRU NORTH HEADWALL

BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
A501		2	9'-8"	-	SLAB TRANSV. BOTTOM
A402		4	9'-8"	-	HEADWALL SIDES AND TOP
A303		14	5'-7"	X	HEAD WALL STIRRUP
A504		4	2'-6"	-	WALL VERTICAL, ADHESIVE ANCHOR
A505		9	2'-1"	X	SLAB LONGITUDINAL, ADHESIVE ANCHOR
A406		4	9'-8"	-	HEADWALL LONGITUDINAL
A307		14	3'-1"	X	HEAD WALL STIRRUP
A508		11	1'-5"	-	HEADWALL VERTICAL, ADHESIVE ANCHOR



BENDING DIAGRAM

LEGEND

◐ ADHESIVE ANCHORS NO.5 BAR. EMBED 7" IN EXIST. CONCRETE.

▬ RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE, LENGTH OF HEADWALL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-64-86

DRAWN BY BDT | PLANS CK'D. JA

ESTIMATE OF QUANTITIES

SHEET 2 OF 2

238

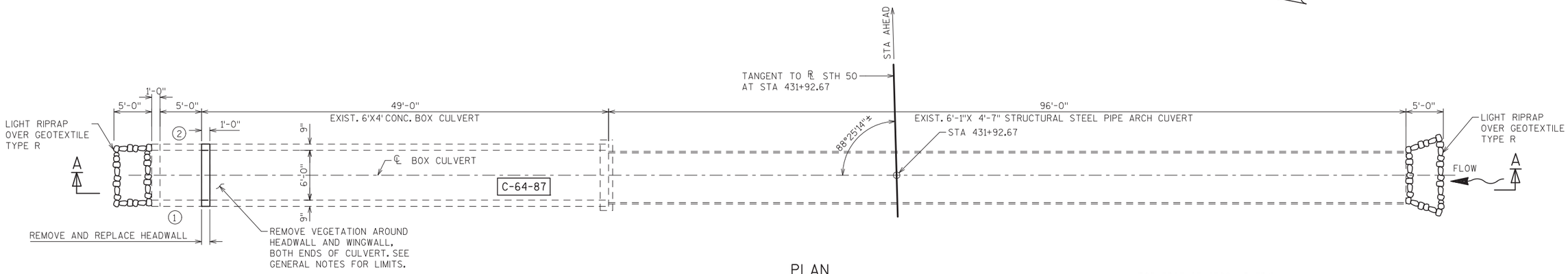
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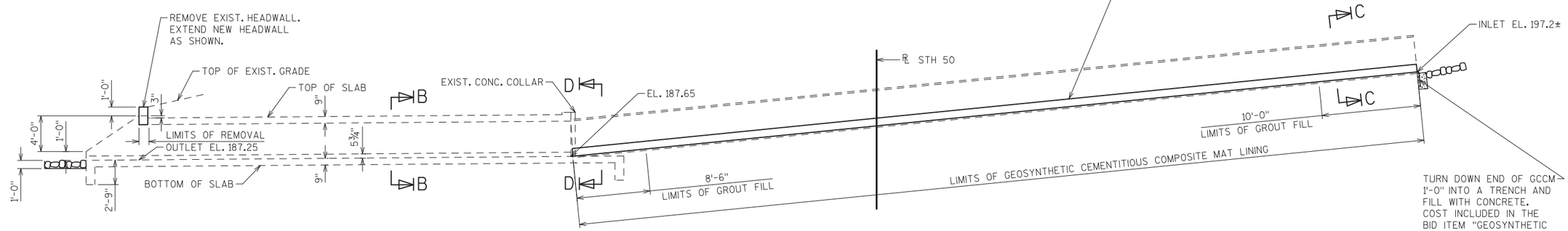
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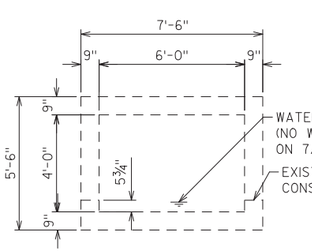
STATE PROJECT NUMBER
3170-12-70

Ⓧ DENOTES WING NUMBER

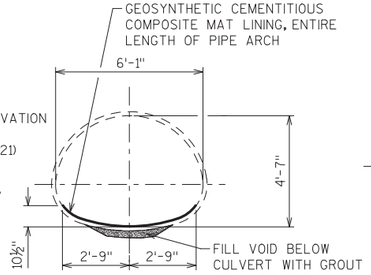


PLAN
(6'x4' SINGLE CELL CULVERT)

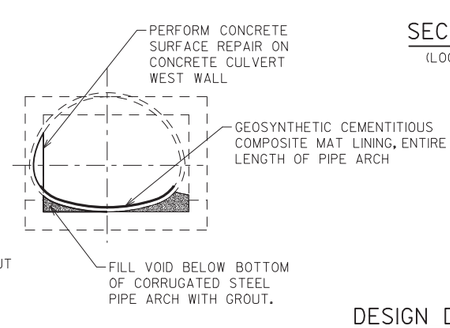




SECTION B-B
(TYPICAL SECTION THRU CONCRETE CULVERT)



SECTION C-C
(TYPICAL SECTION THRU PIPE ARCH CULVERT)



SECTION D-D
(LOOKING NORTH)

SECTION A-A
(LOOKING EAST)

DESIGN DATA

LIVE LOAD
DESIGN LOAD: HS20
INVENTORY RATING FACTOR : 1.0
OPERATING RATING FACTOR : 1.67
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV):.....190 KIPS

MATERIAL PROPERTIES
CONCRETE MASONRY..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT, GRADE 60 ..... fy = 60,000 psi

TRAFFIC DATA
STH 50
A.D.T. (2022) = 10,880
A.D.T. (2043) = 12,210
DESIGN SPEED = 60 mph

LIST OF DRAWINGS
1. GENERAL PLAN AND ELEVATION
2. ESTIMATE OF QUANTITIES

WISCONSIN
BABU D. THENGANAKUNNEL
E-35995
MILWAUKEE, WI
PROFESSIONAL ENGINEER
2-1-2022

STRUCTURE DESIGN CONTACTS
BUREAU OF STRUCTURES CONTACT:
AARON BONK
(608) 261-0261

CONSULTANT CONTACT:
YAN NENAYDYKH
(414) 292-4599

NO.	DATE	REVISION	BY

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity
10501 W. Research Drive • Milwaukee, WI 53226
Phone: (414) 771-3390 Fax: (414) 771-4490

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 02/09/22
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-64-87

STH 50 OVER DRAINAGE WAY

COUNTY	TOWN
WALWORTH	GENEVA

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BDT	JA	BDT	JA

GENERAL PLAN AND ELEVATION

SHEET 1 OF 2

239

I.D. 3170-12-00 DEC 2021

FILE NAME: X:\BMI-3800 STH 50 Delavan - Lake Geneva\5.Design\04.Structures.Bridges\current plans\C-64-87\01_general plan.dgn
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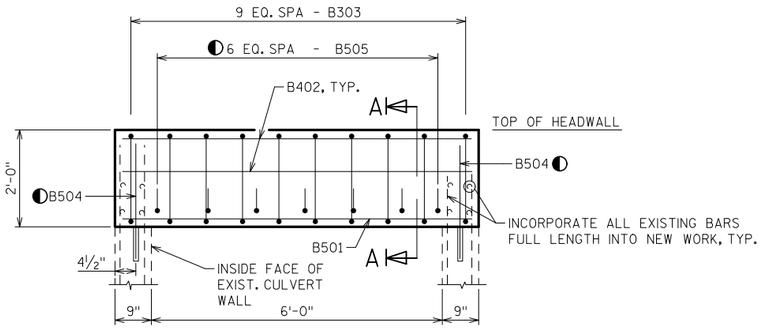
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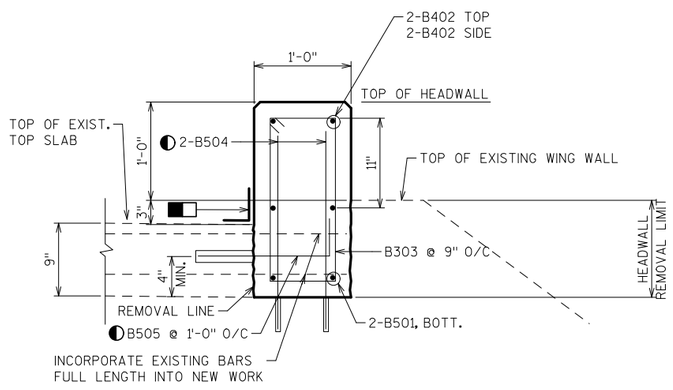
TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	TOTAL
203.0220	REMOVING STRUCTURE C-64-87	EACH	1
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	11
504.0100	CONCRETE MASONRY CULVERTS	CY	1
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	90
509.1500	CONCRETE SURFACE REPAIR	SF	35
509.9020.S	EPOXY CRACK SEALING	LF	45
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	1
606.0100	RIPRAP LIGHT	CY	2
645.0130	GEOTEXTILE TYPE R	SY	7
SPV.0025.01	GROUT FILL	CF	102
SPV.0060.04	REMOVING VEGETATION C-64-87	EACH	1
SPV.0165.01	GEOSYNTHETIC CEMENTITIOUS COMPOSITE MAT LINING	SF	594

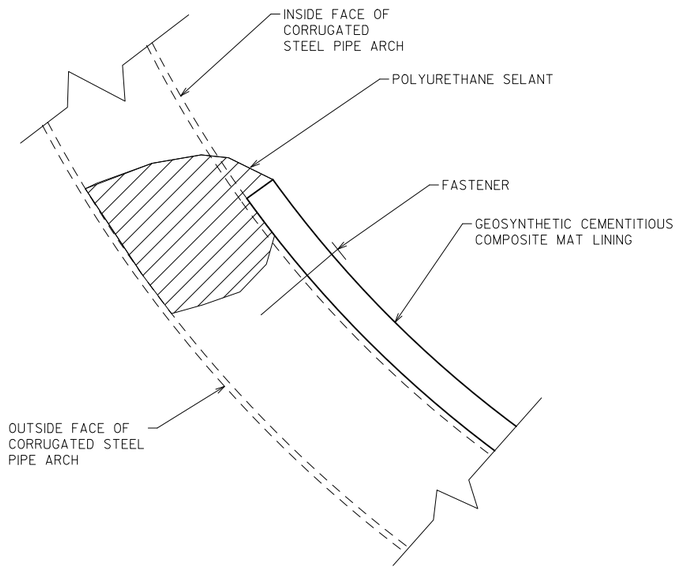
ALL ITEMS ARE CATEGORY 0100



NORTH HEADWALL ELEVATION
(LOOKING SOUTH)



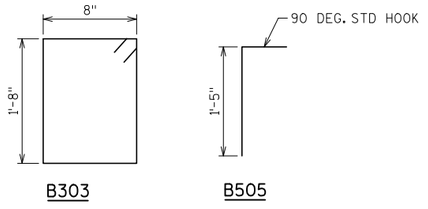
SECTION A-A



GEOSYNTHETIC CEMENTITIOUS
COMPOSITE MAT LINING TERMINATION

BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
B501		2	7'-2"	-	SLAB TRANSV. BOTTOM
B402		4	7'-2"	-	HEADWALL SIDES AND TOP
B303		10	5'-1"	X	HEADWALL STIRRUP
◐ B504		4	2'-4"	-	WALL VERTICAL, ADHESIVE ANCHOR
◐ B505		7	2'-1"	X	SLAB LONGITUDINAL, ADHESIVE ANCHOR



BENDING DIAGRAM

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

ALL DIMENSIONS ARE IN FEET AND INCHES.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCH CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4 INCH UNLESS OTHERWISE NOTED.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK. EXISTING BARS SHALL BE CLEANED AND STRAIGHTENED.

PART OF THE EXISTING HEADWALL AND TOP SLAB SHALL BE REMOVED AND REPLACED IN THIS CONTRACT.

DIMENSIONS AND ELEVATIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS, UNLESS SHOWN OTHERWISE.

ALL CONCRETE REMOVAL LIMITS SHALL BE DEFINED BY A 1INCH DEEP SAWCUT.

ANY EXCAVATION REQUIRED TO COMPLETE THE REPAIR OF CULVERT HEADWALL IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY CULVERTS".

PLANS OF THE EXISTING CULVERT ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION.

CONCRETE SURFACE REPAIR, EPOXY CRACK SEALING, AND GROUT FILL REQUIRED IN AREAS DESIGNATED BY THE FIELD ENGINEER. QUANTITY SHOWN IS APPROXIMATE AND UNDISTRIBUTED.

UNDER THE BID ITEM "REMOVING VEGETATION C-64-87" REMOVE ALL VEGETATION WITHIN 10 FEET FROM THE FACE OF WINGWALLS/ OUTSIDE FACE OF CORRUGATED STEEL PIPE ARCH AND CULVERT HEAD WALL/END OF PIPE ARCH , INCLUDING THE VEGETATION WITHIN THE STREAM, AND AS DIRECTED BY THE ENGINEER.

LEGEND

◐ ADHESIVE ANCHORS NO.5 BAR. EMBED 7" IN EXIST. CONCRETE.

RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE, LENGTH OF HEADWALL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-64-87

DRAWN BY BDT | PLANS CK'D. JA

ESTIMATE OF QUANTITIES

SHEET 2 OF 2

240

8

8

Project ID: 3170-12-70

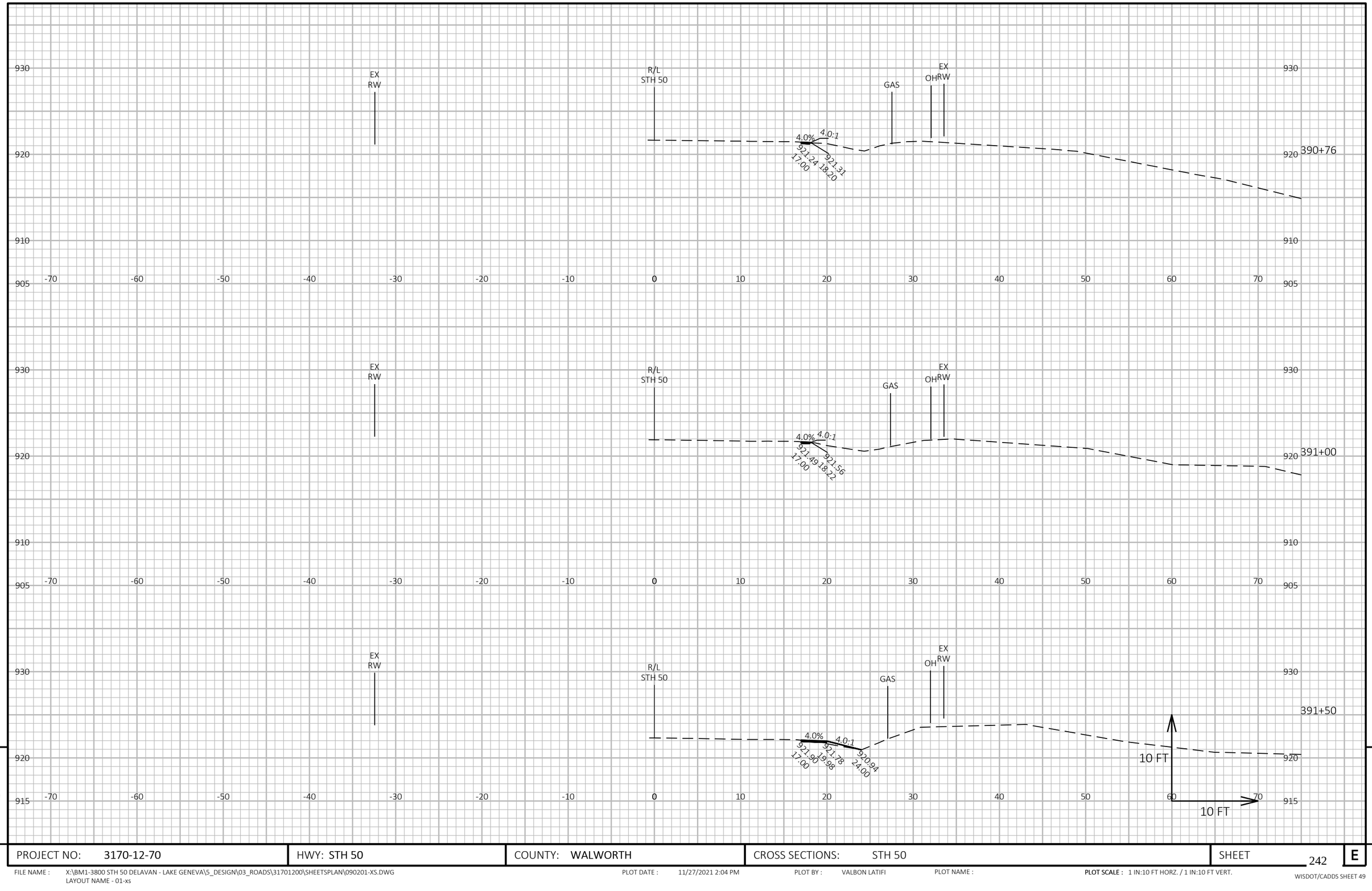
Stage 3 - STH 50 Beam Guard RT

STATION	Distance	Area (SF) Cut	Area (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
390+76	0	0.2	0.1	0	0	0	0	0
391+00	24	0.2	0.1	0	0	0	0	0
391+50	50	0.3	0.7	0	1	1	1	0
391+95	45	1.0	2.3	1	3	2	4	-3
392+00	5	0.9	2.5	0	0	2	5	-3
392+20	20	0.5	2.1	1	2	2	7	-4
392+45	25	0.7	1.2	1	2	3	9	-6
392+50	5	0.7	0.9	0	0	3	9	-6
393+00	50	1.3	0.2	2	1	5	10	-5
393+50	50	2.1	0.0	3	0	8	10	-3
394+00	50	3.7	0.0	5	0	13	10	3
394+50	50	1.6	0.0	5	0	18	11	8
395+00	50	1.5	0.2	3	0	21	11	10
395+50	50	1.4	0.0	3	0	24	11	13
396+00	50	0.3	0.0	2	0	25	11	14
396+50	50	0.2	0.1	1	0	26	11	15
397+00	50	0.0	0.0	0	0	26	11	15
397+20	20	0.0	0.0	0	0	26	11	15
397+45	25	0.0	0.0	0	0	26	11	15
397+70	25	0.0	0.0	0	0	26	11	15
			Column totals	26	9			

Project ID: 3170-12-70

Stage 3 - STH 50 Beam Guard LT

STATION	Distance	Area (SF) Cut	Area (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
404+59	0	1.0	0.1	0	0	0	0	0
404+70	11	1.0	0.9	0	0	0	0	0
405+00	30	0.0	1.7	1	1	1	2	-1
405+21	21	0.0	1.7	0	1	1	4	-3
405+50	29	0.0	0.9	0	1	1	5	-4
406+00	50	0.2	0.3	0	1	1	7	-6
406+50	50	0.4	0.9	1	1	2	8	-7
407+00	50	0.9	0.1	1	1	3	9	-7
407+50	50	1.3	0.0	2	0	5	9	-5
408+00	50	0.7	0.1	2	0	7	10	-3
408+50	50	0.6	0.2	1	0	8	10	-2
409+00	50	0.8	0.0	1	0	9	10	-1
409+50	50	0.6	0.2	1	0	11	10	0
410+00	50	0.6	0.1	1	0	12	11	1
410+50	50	0.5	0.5	1	1	13	12	1
411+00	50	0.4	0.9	1	1	13	13	0
411+50	50	0.6	27.5	1	26	14	46	-32
412+00	50	0.3	1.0	1	26	15	79	-64
412+50	50	0.5	0.2	1	1	16	80	-64
413+00	50	1.9	0.0	2	0	18	80	-62
413+50	50	0.4	0.3	2	0	20	81	-60
414+00	50	0.8	0.2	1	0	21	81	-60
414+50	50	1.0	0.0	2	0	23	82	-59
415+00	50	1.8	0.0	3	0	26	82	-56
415+50	50	1.0	0.0	3	0	28	82	-53
416+00	50	1.1	0.0	2	0	30	82	-52
416+50	50	0.9	0.0	2	0	32	82	-50
417+00	50	1.5	0.0	2	0	34	82	-48
417+50	50	1.9	0.0	3	0	37	82	-44
418+00	50	1.2	0.0	3	0	40	82	-42
418+50	50	3.1	0.0	4	0	44	82	-38
419+00	50	3.8	0.0	6	0	50	82	-31
419+50	50	3.4	0.0	7	0	57	82	-25
419+59	9	3.7	0.0	1	0	58	82	-24
419+84	25	4.2	0.2	4	0	62	82	-20
420+00	16	7.6	0.0	4	0	65	82	-17
420+09	9	3.1	19.1	2	3	67	86	-19
420+50	41	1.0	0.0	3	15	70	104	-34
420+55	5	0.5	0.0	0	0	70	104	-34
			Column totals	70	83			



9

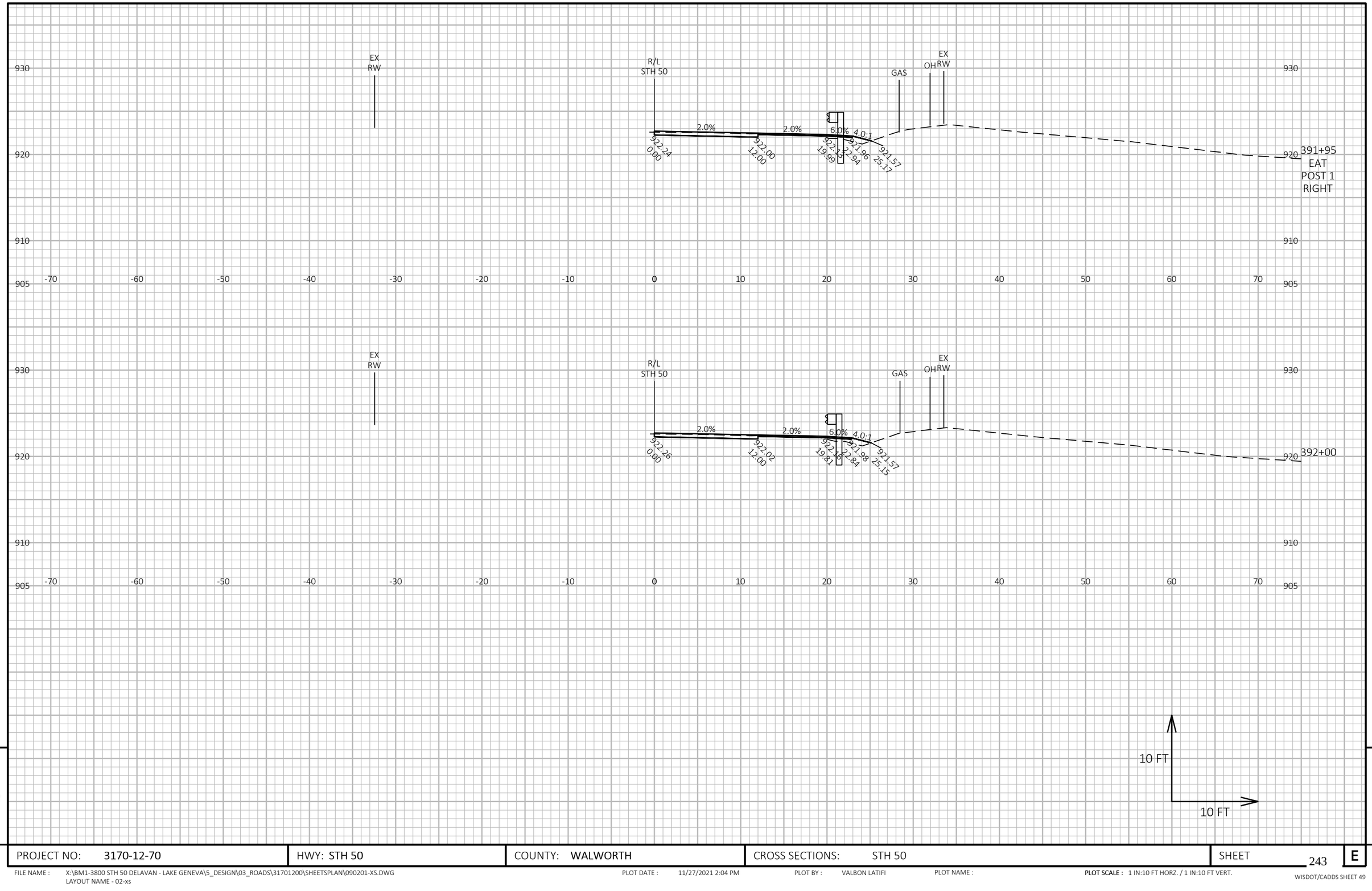
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LAYOUT NAME - 01-xs

PLOT DATE : 11/27/2021 2:04 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



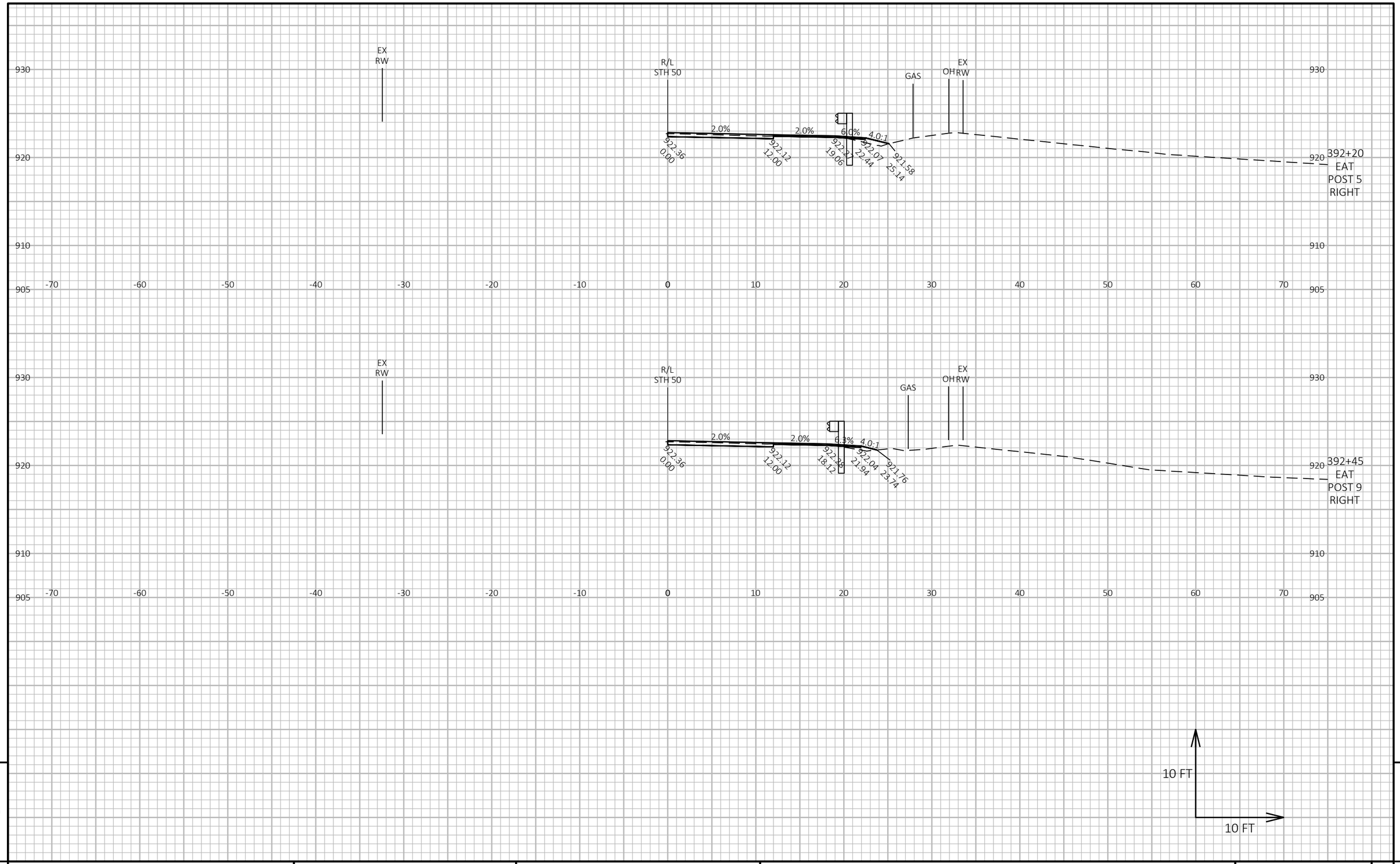
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 243	E

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LAYOUT NAME - 02-xs

PLOT DATE : 11/27/2021 2:04 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 244	E

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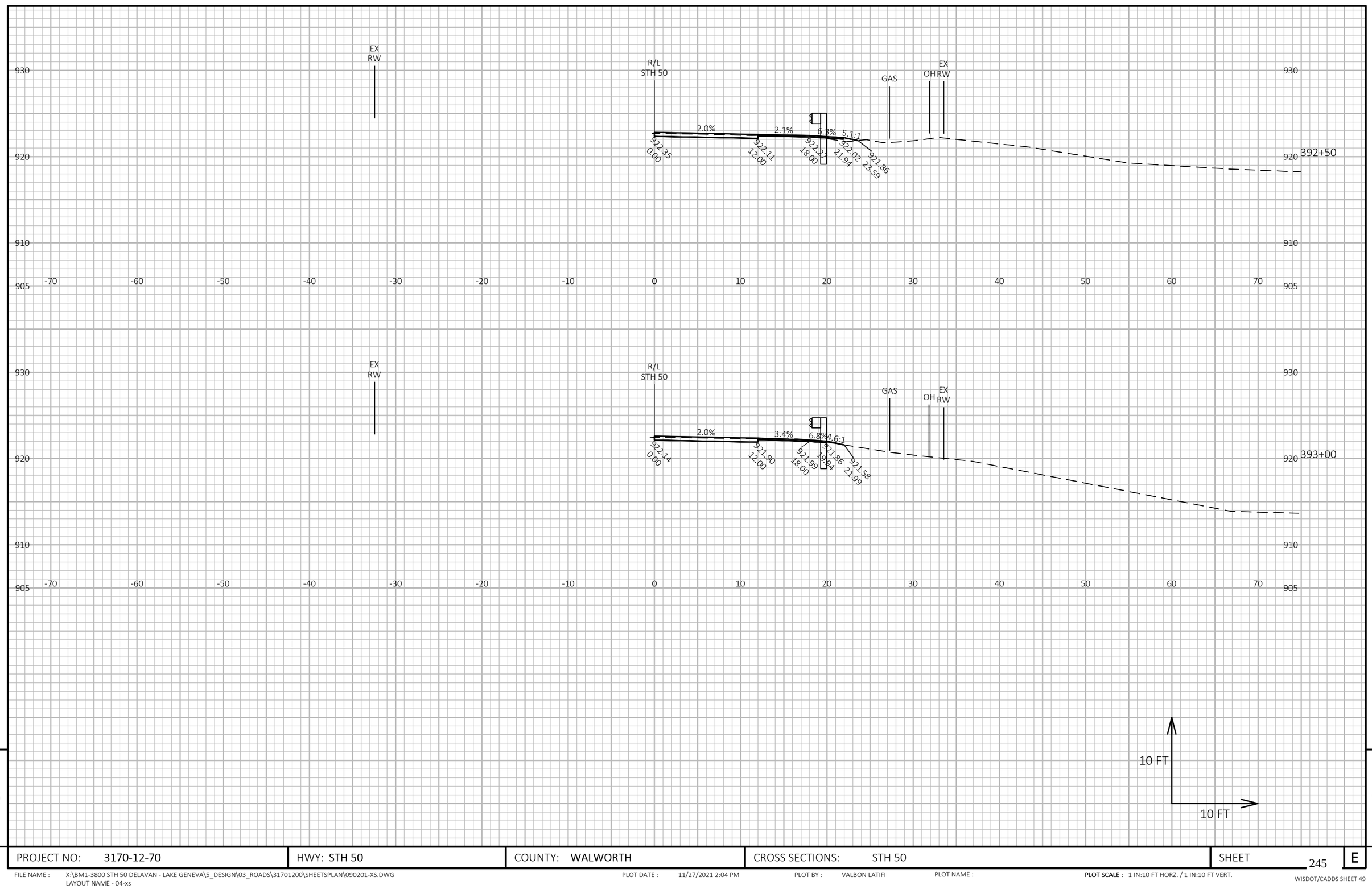
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PLOT BY : VALBON LATIFI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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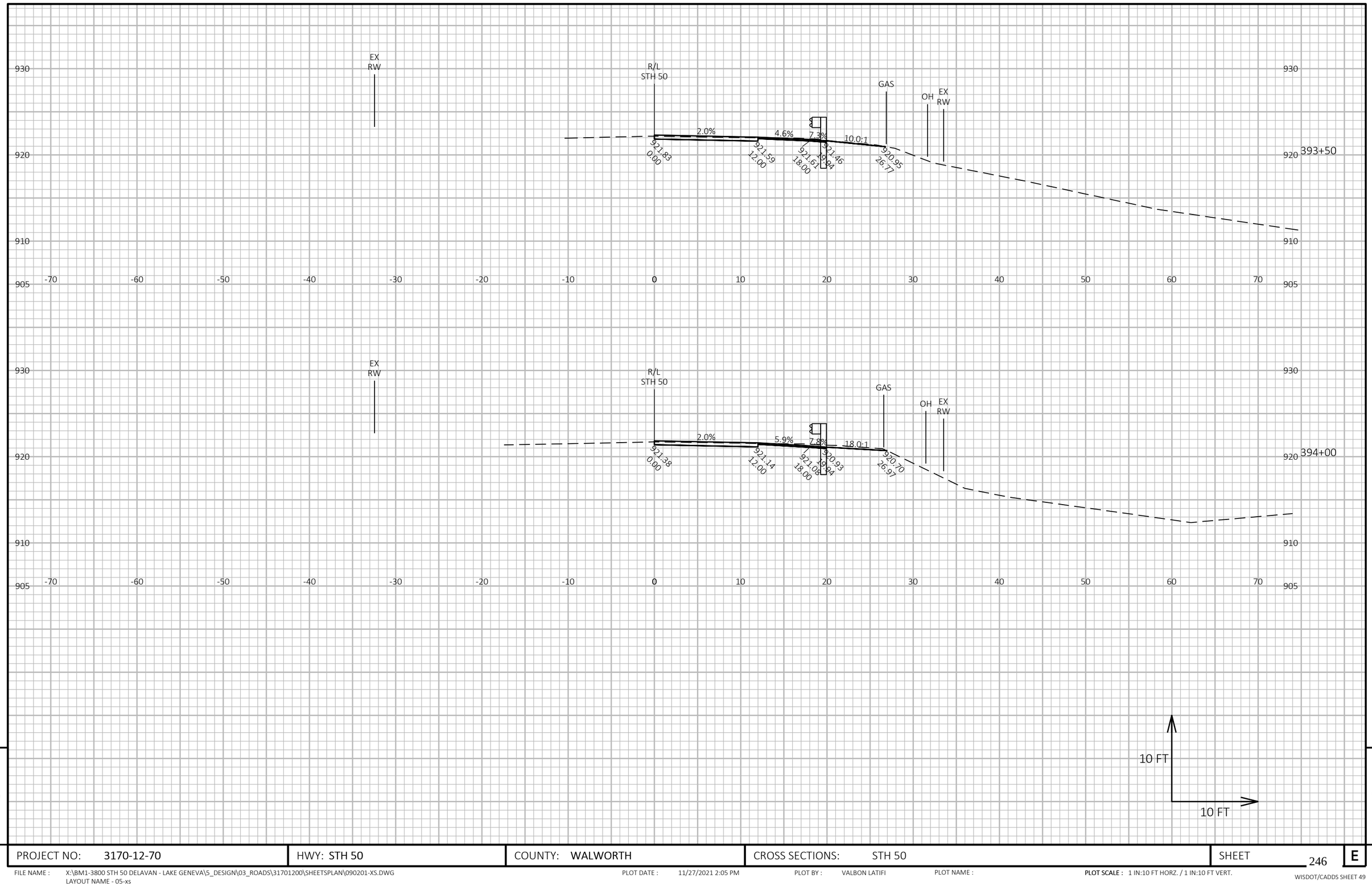
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LAYOUT NAME - 04-xs

PLOT DATE : 11/27/2021 2:04 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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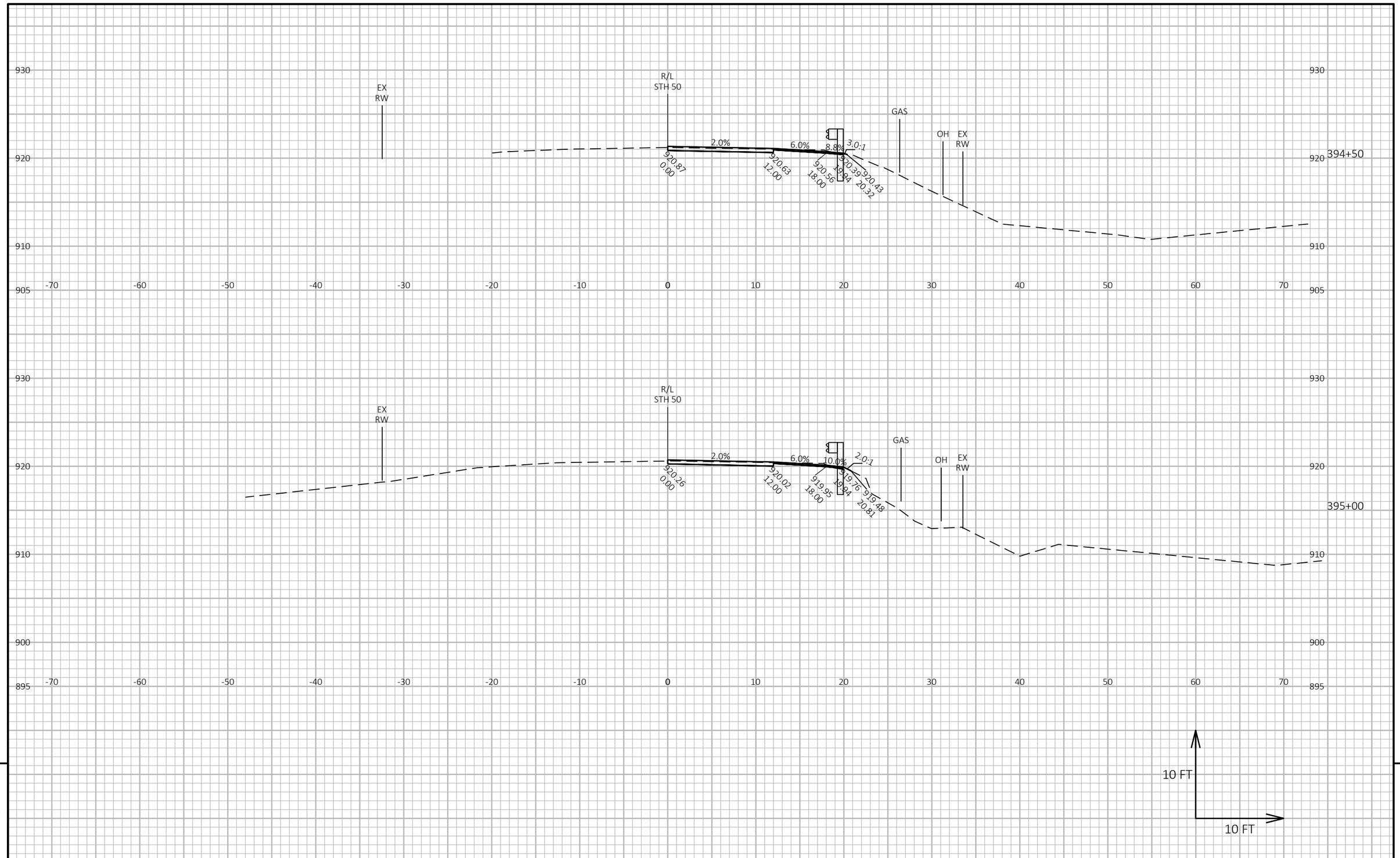
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LAYOUT NAME - 05-xs

PLOT DATE : 11/27/2021 2:05 PM PLOT BY : VALBON LATIFI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



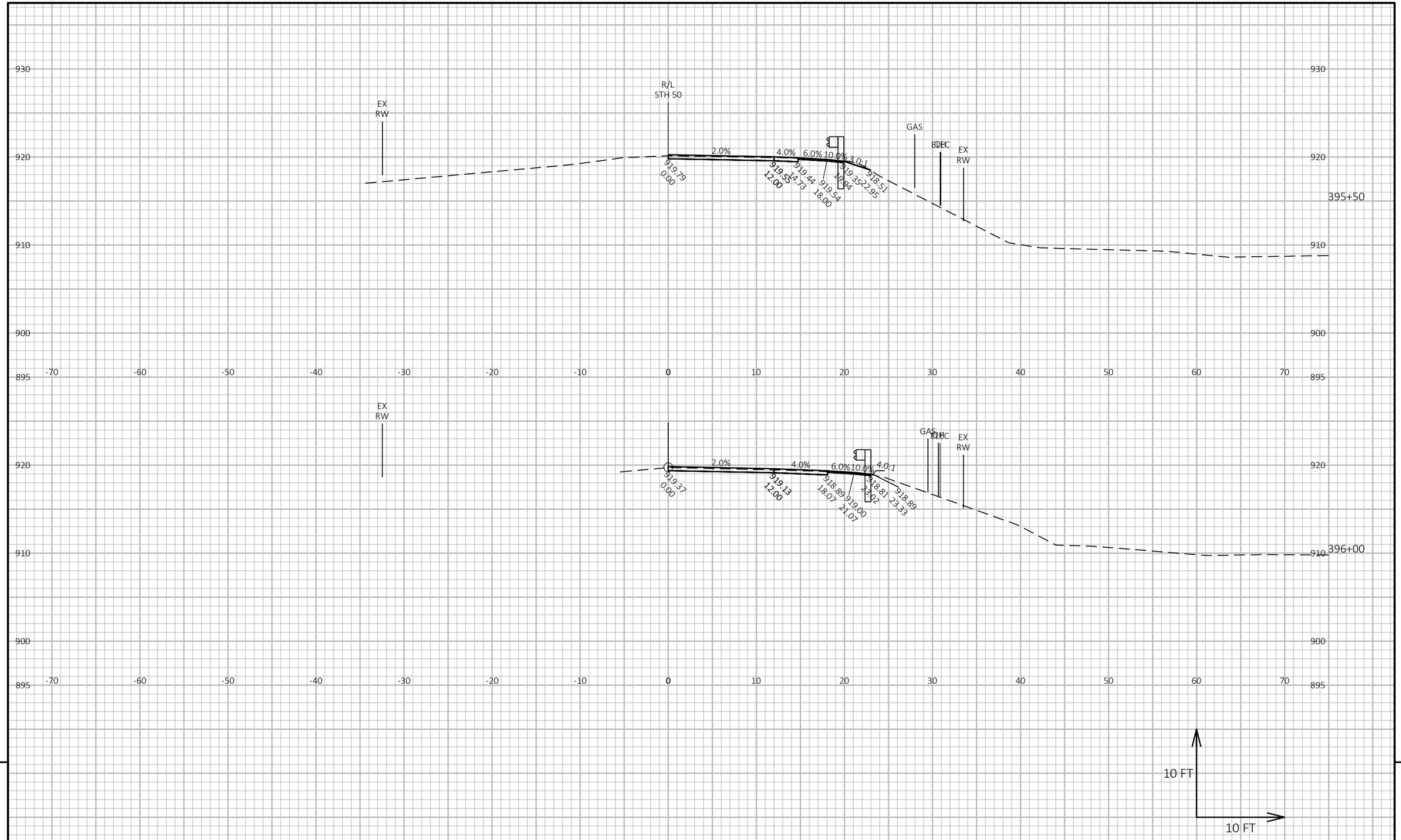
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LAYOUT NAME - 06-xs

PLOT DATE : 11/27/2021 2:05 PM PLOT BY : VALBON LATIFI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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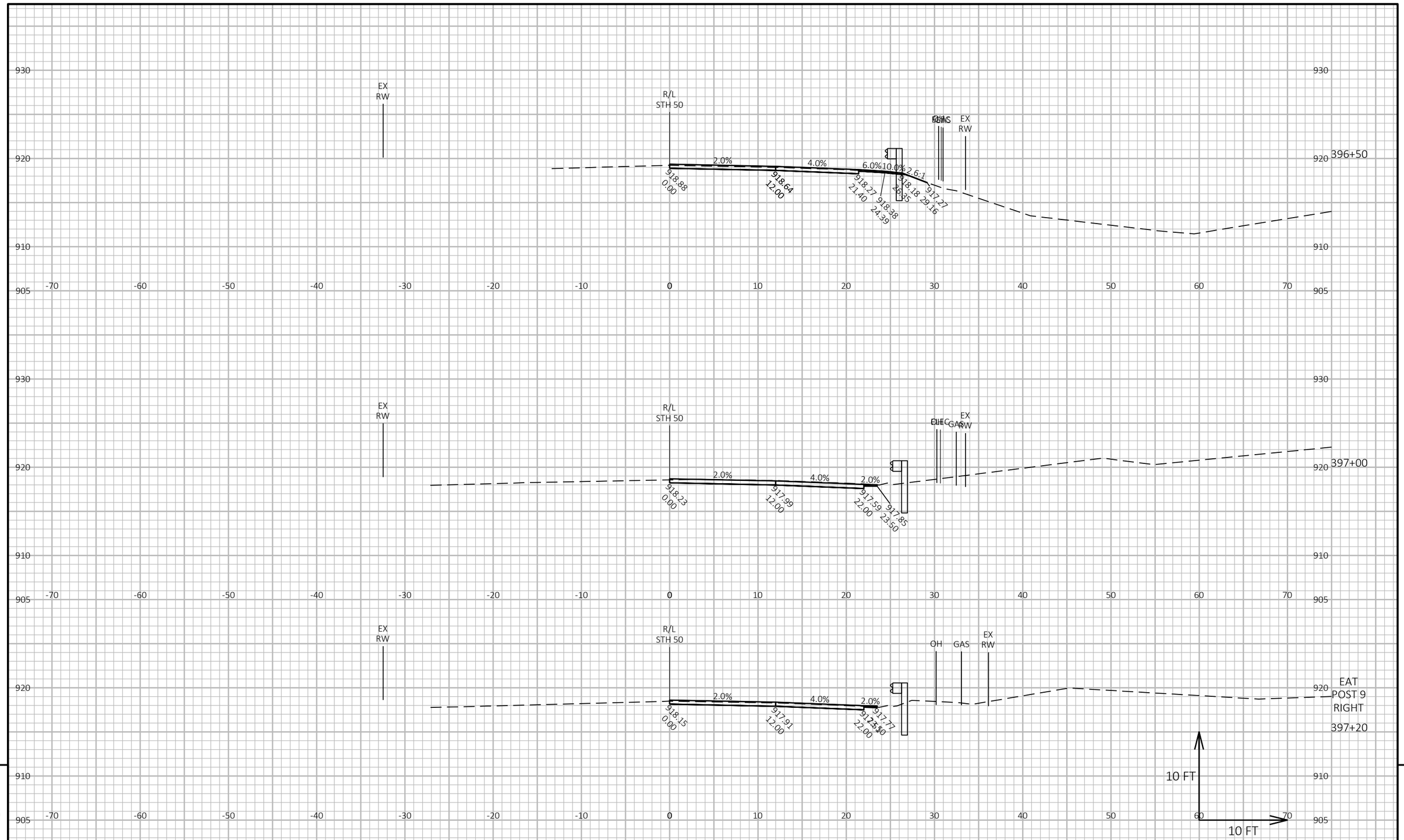
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 248	E

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LAYOUT NAME - 07-xs

PLOT DATE : 11/27/2021 2:05 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

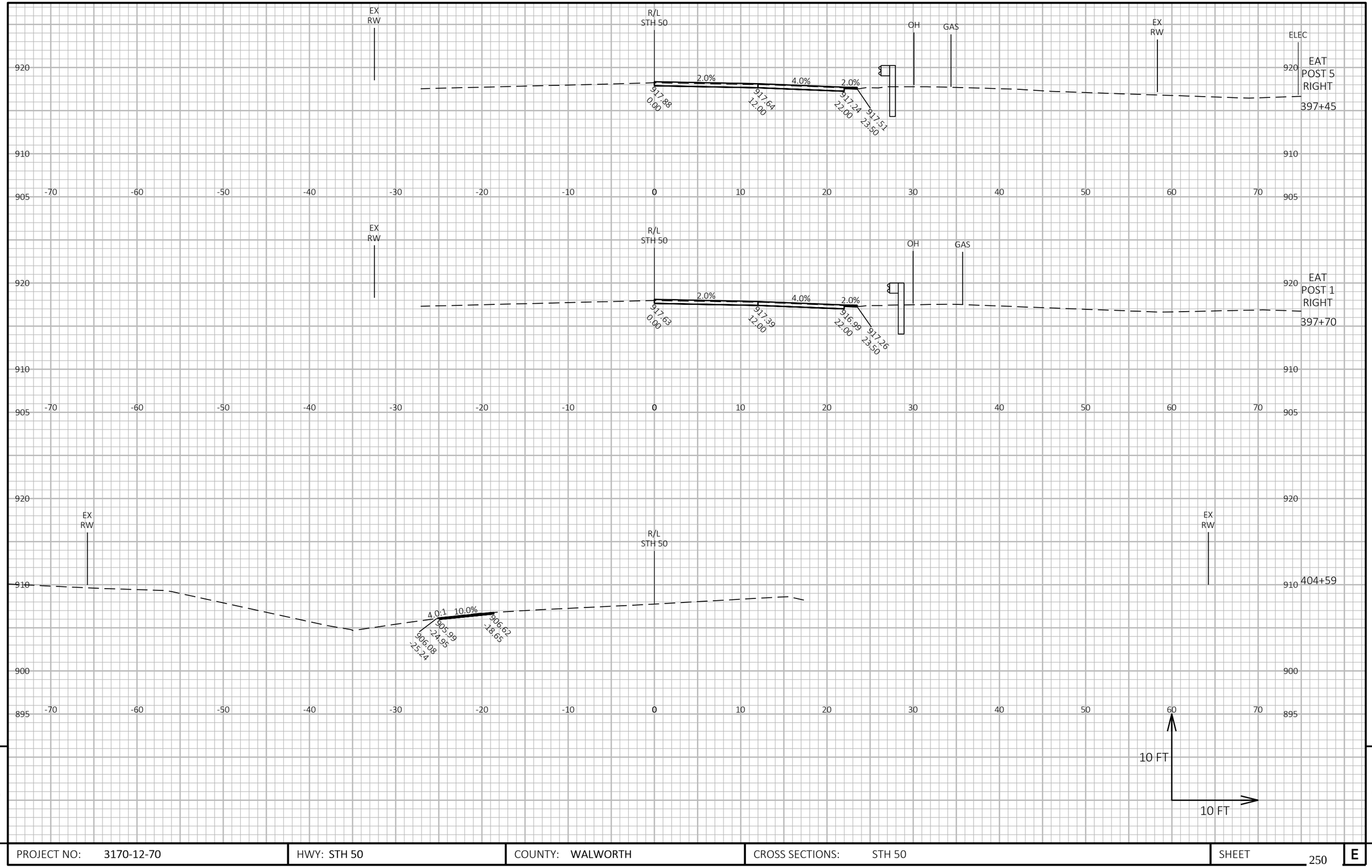
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LAYOUT NAME - 08-xs

PLOT DATE : 11/27/2021 2:05 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



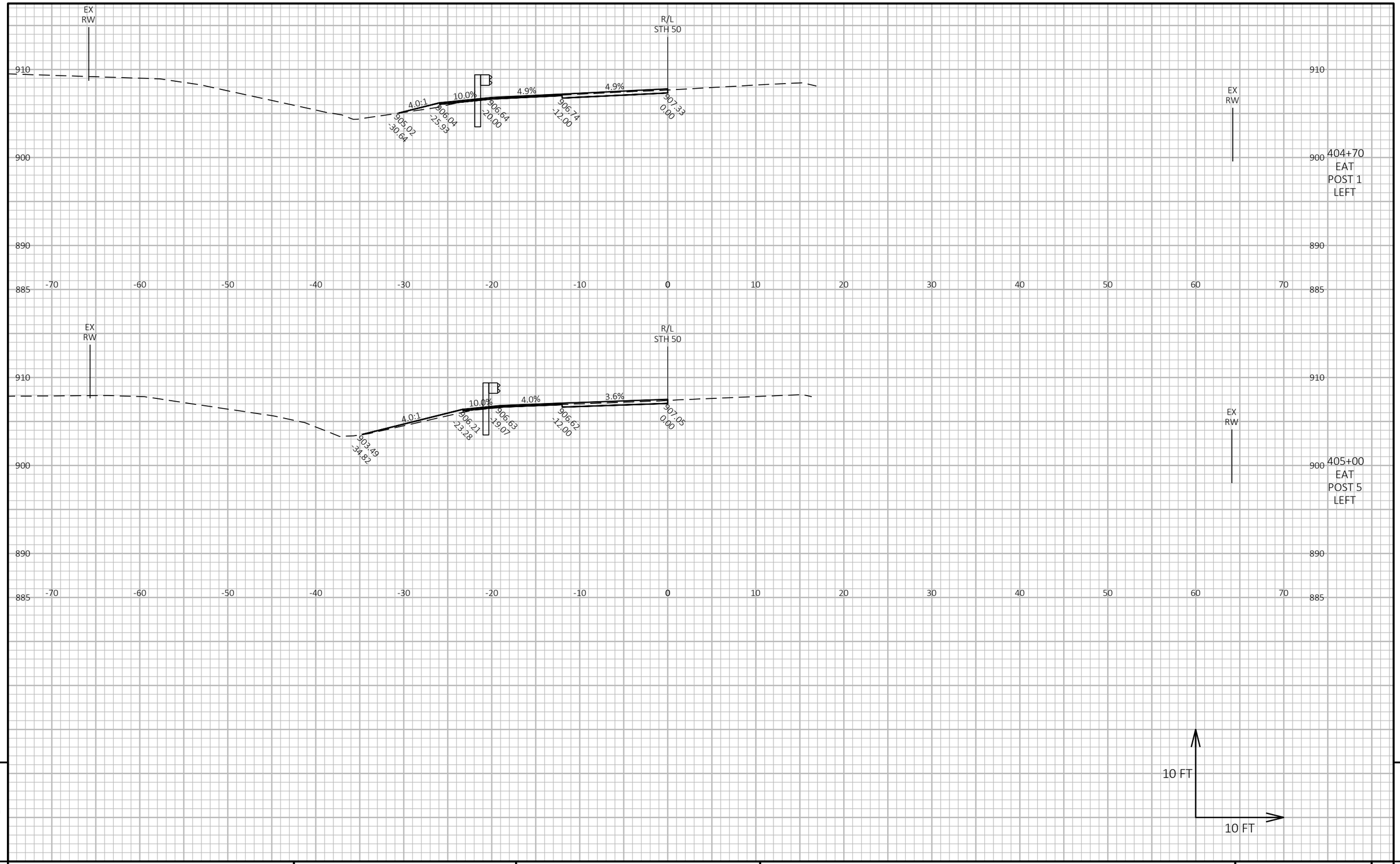
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 250	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 09-xs

PLOT DATE : 11/27/2021 2:05 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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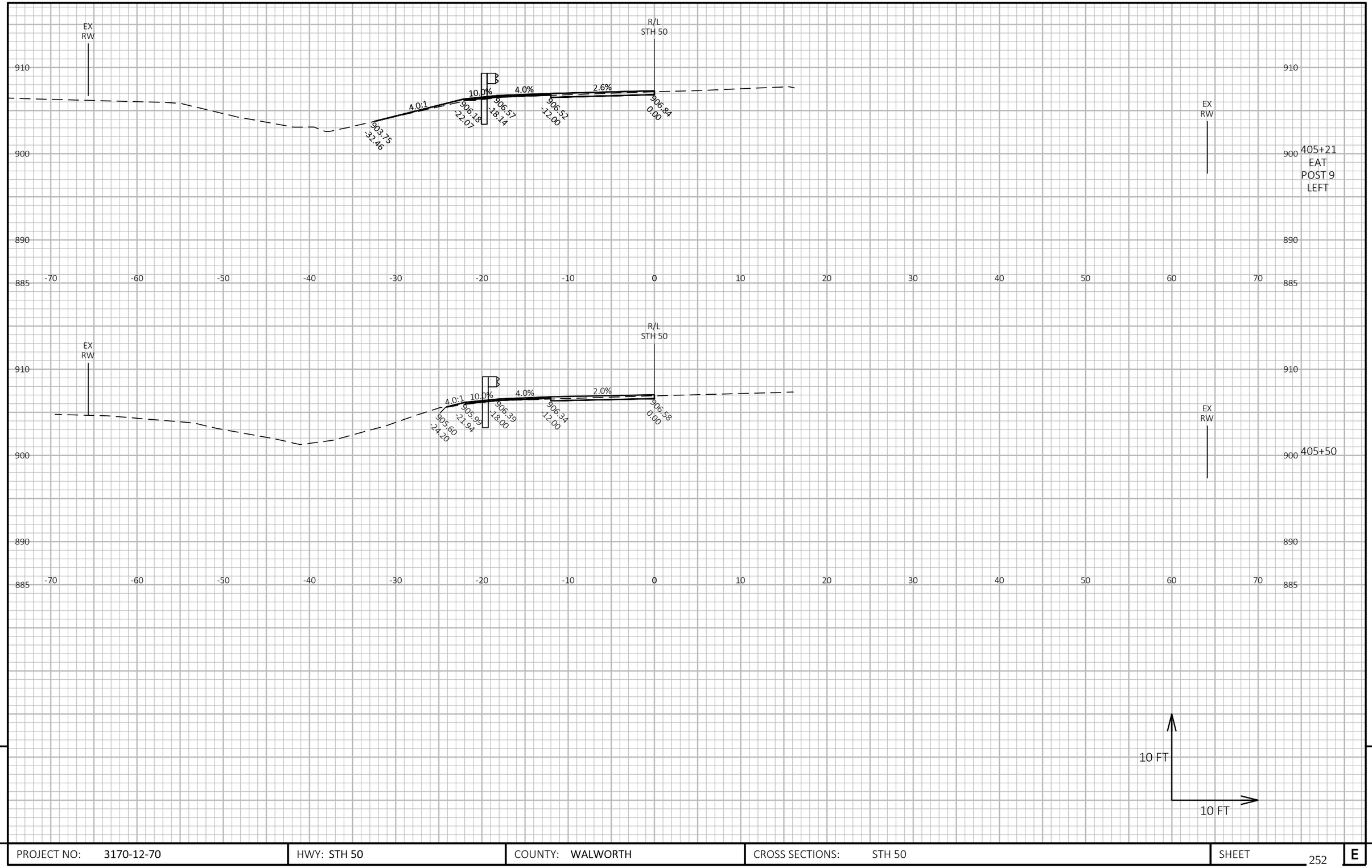
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 251	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 10-xs

PLOT DATE : 11/27/2021 2:05 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

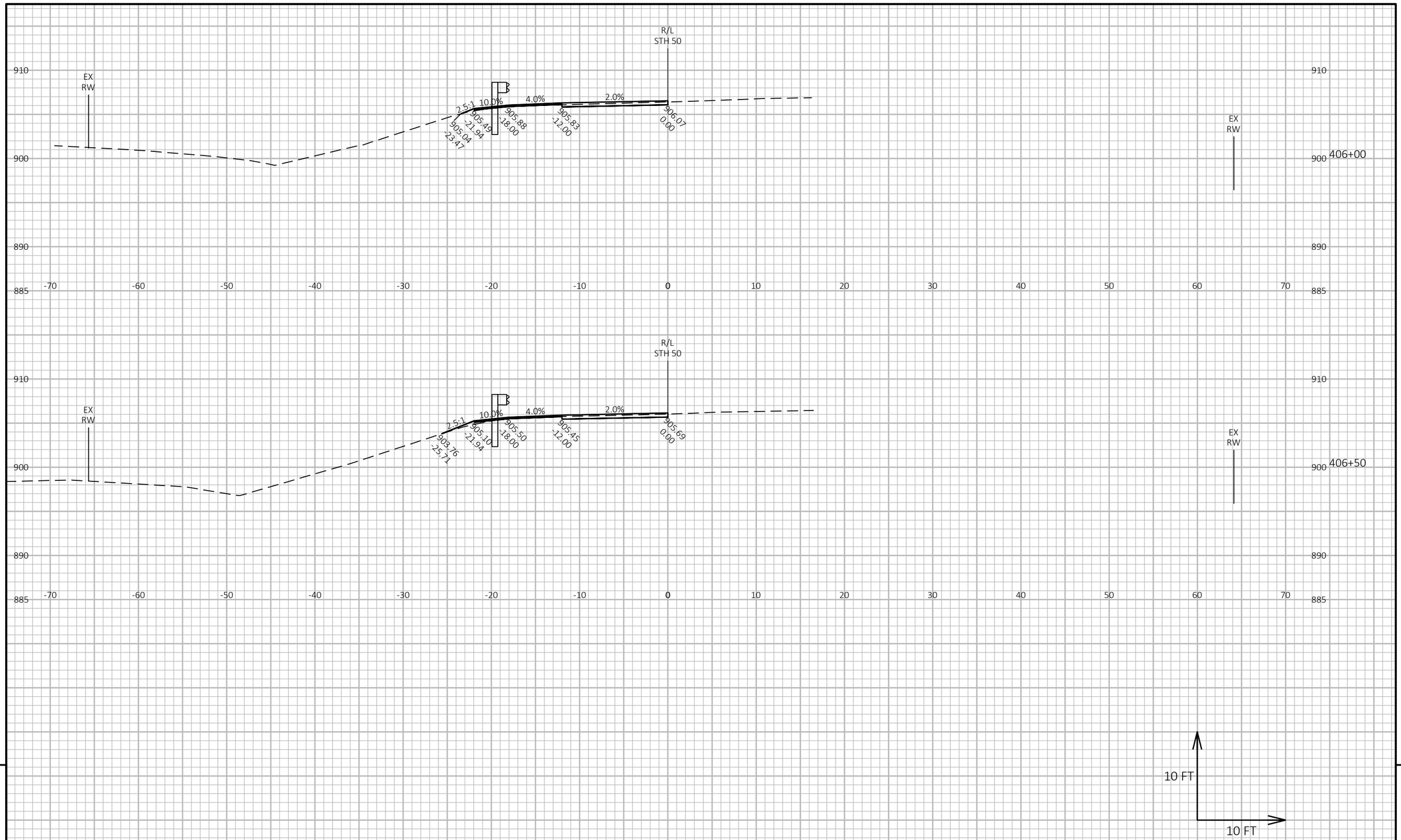
WISDOT/CADDS SHEET 49



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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 252	E

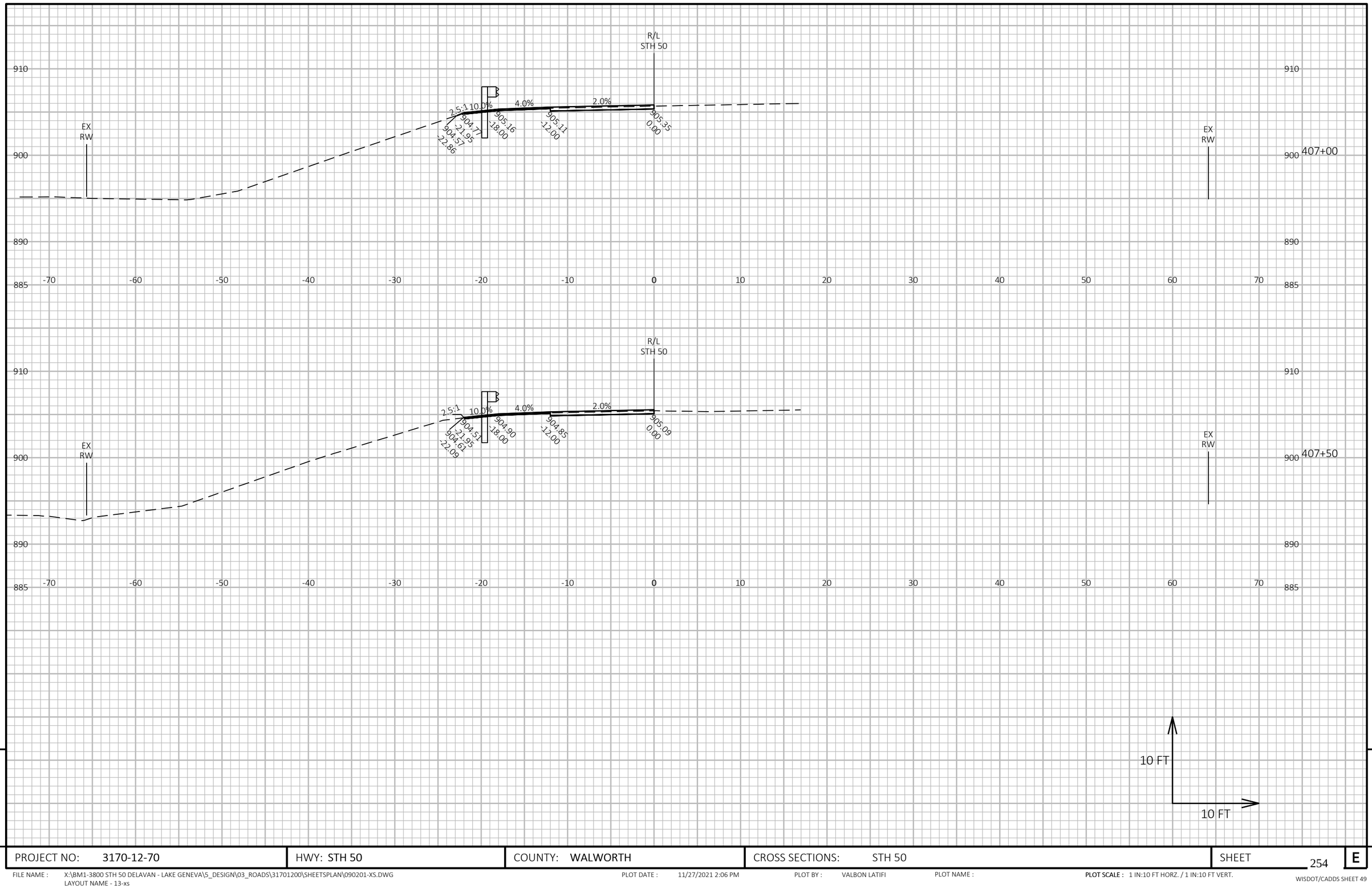


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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 253	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 12-xs
PLOT DATE : 11/27/2021 2:05 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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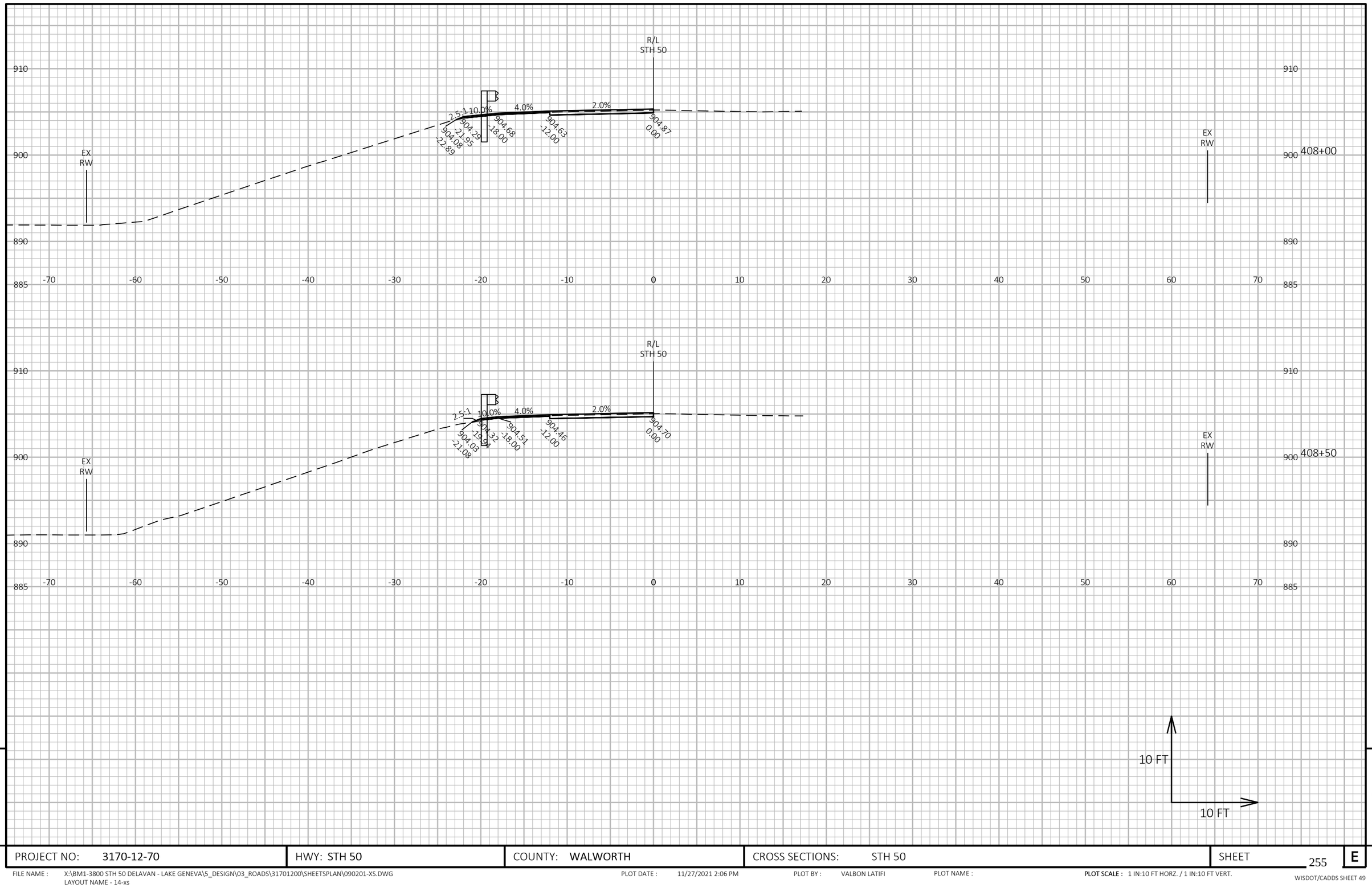
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 254	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 13-xs

PLOT DATE : 11/27/2021 2:06 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

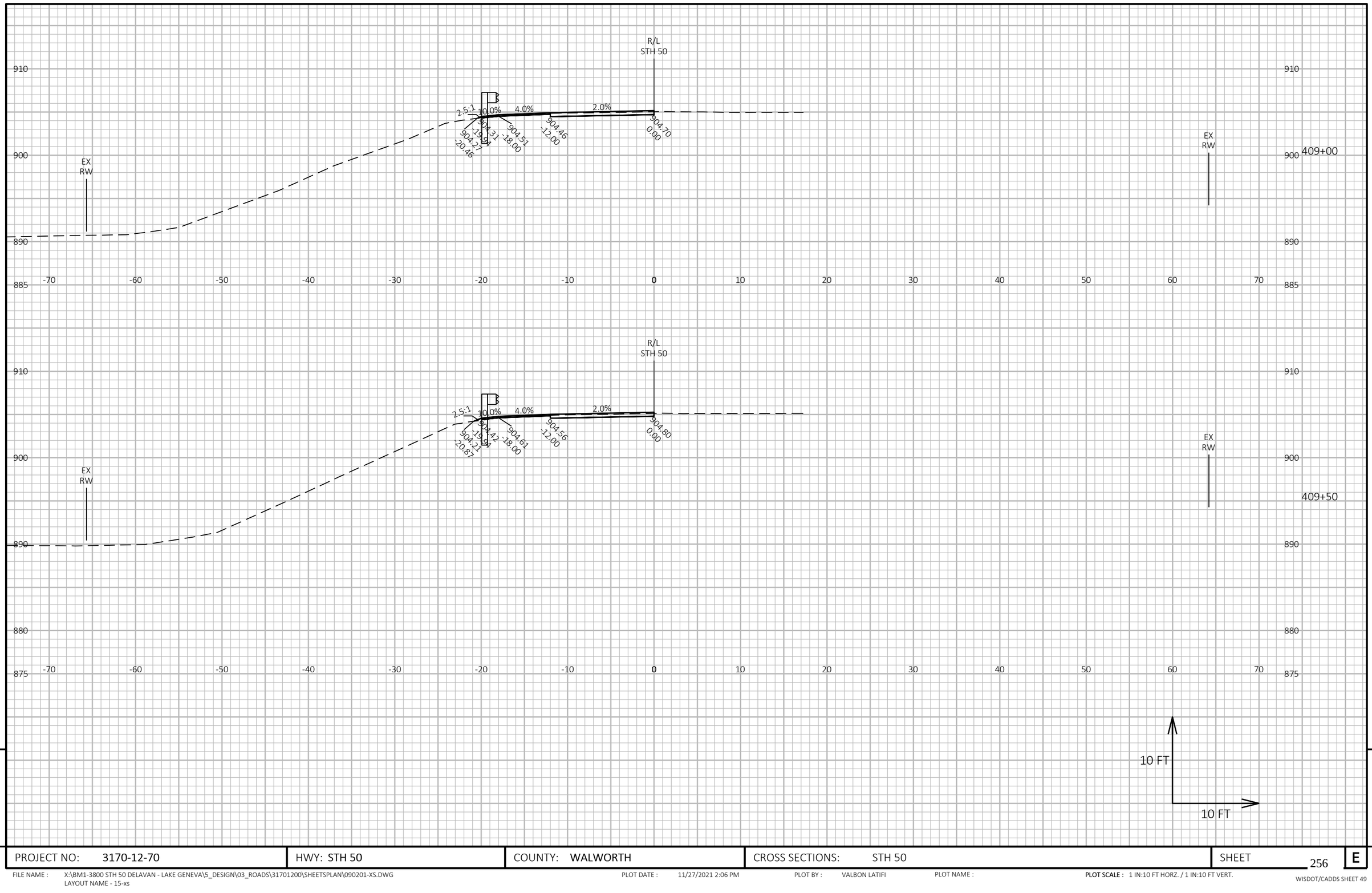


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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 255	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 14-xs
PLOT DATE : 11/27/2021 2:06 PM
PLOT BY : VALBON LATIFI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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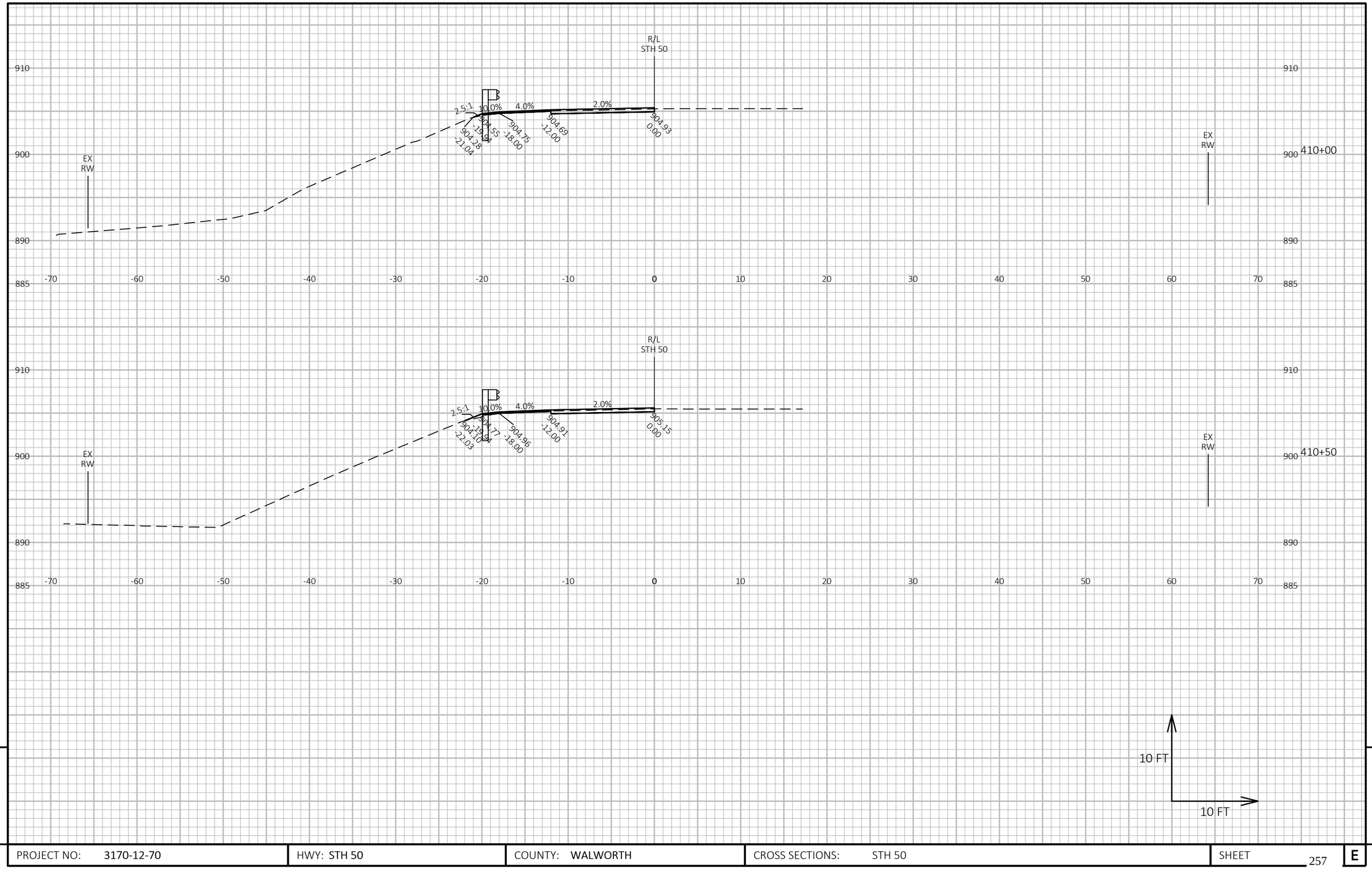
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 256	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 15-xs

PLOT DATE : 11/27/2021 2:06 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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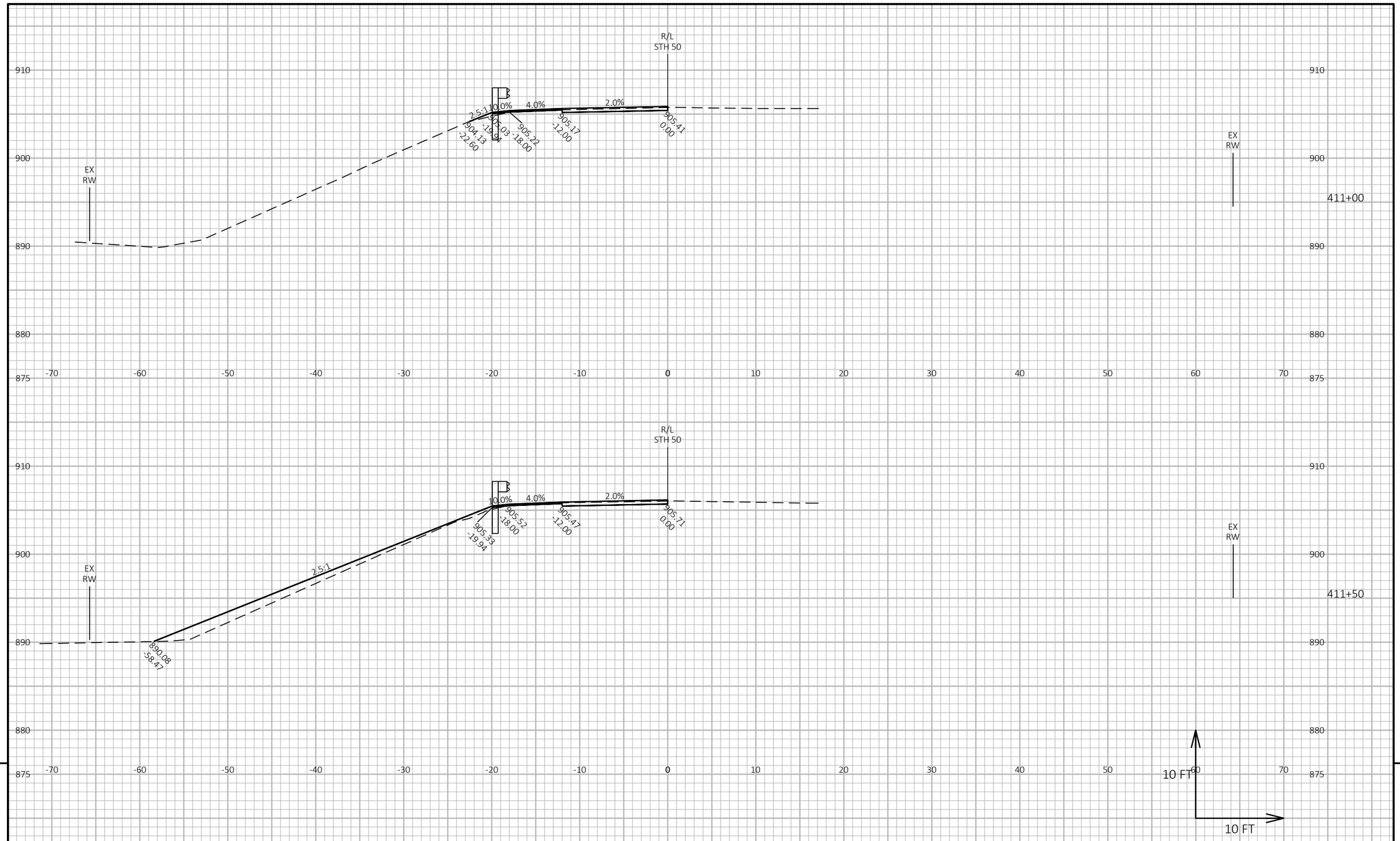
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 257	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 16-xs

PLOT DATE : 11/27/2021 2:06 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



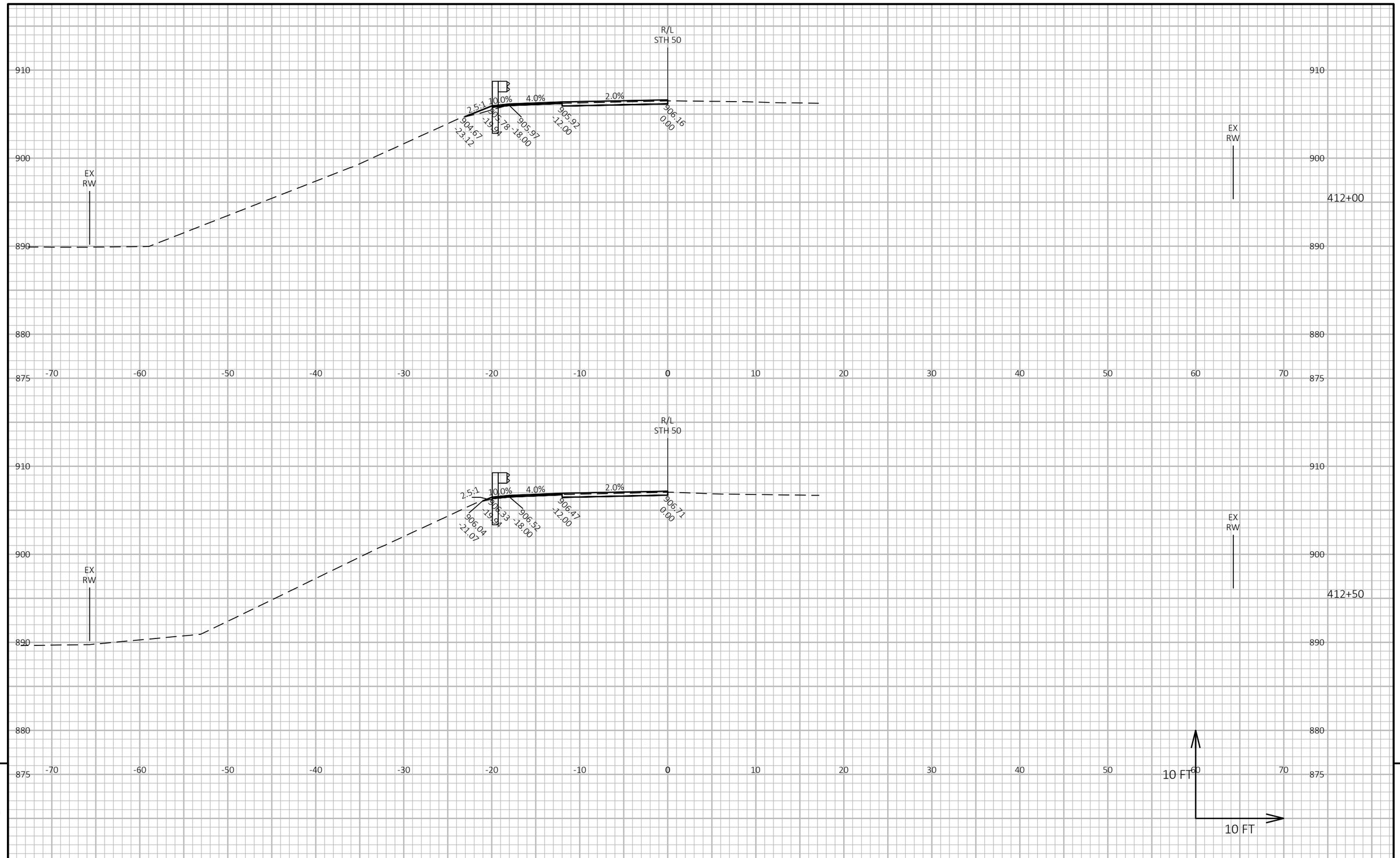
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 258	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 17-xs

PLOT DATE : 11/27/2021 2:06 PM PLOT BY : VALBON LATIFI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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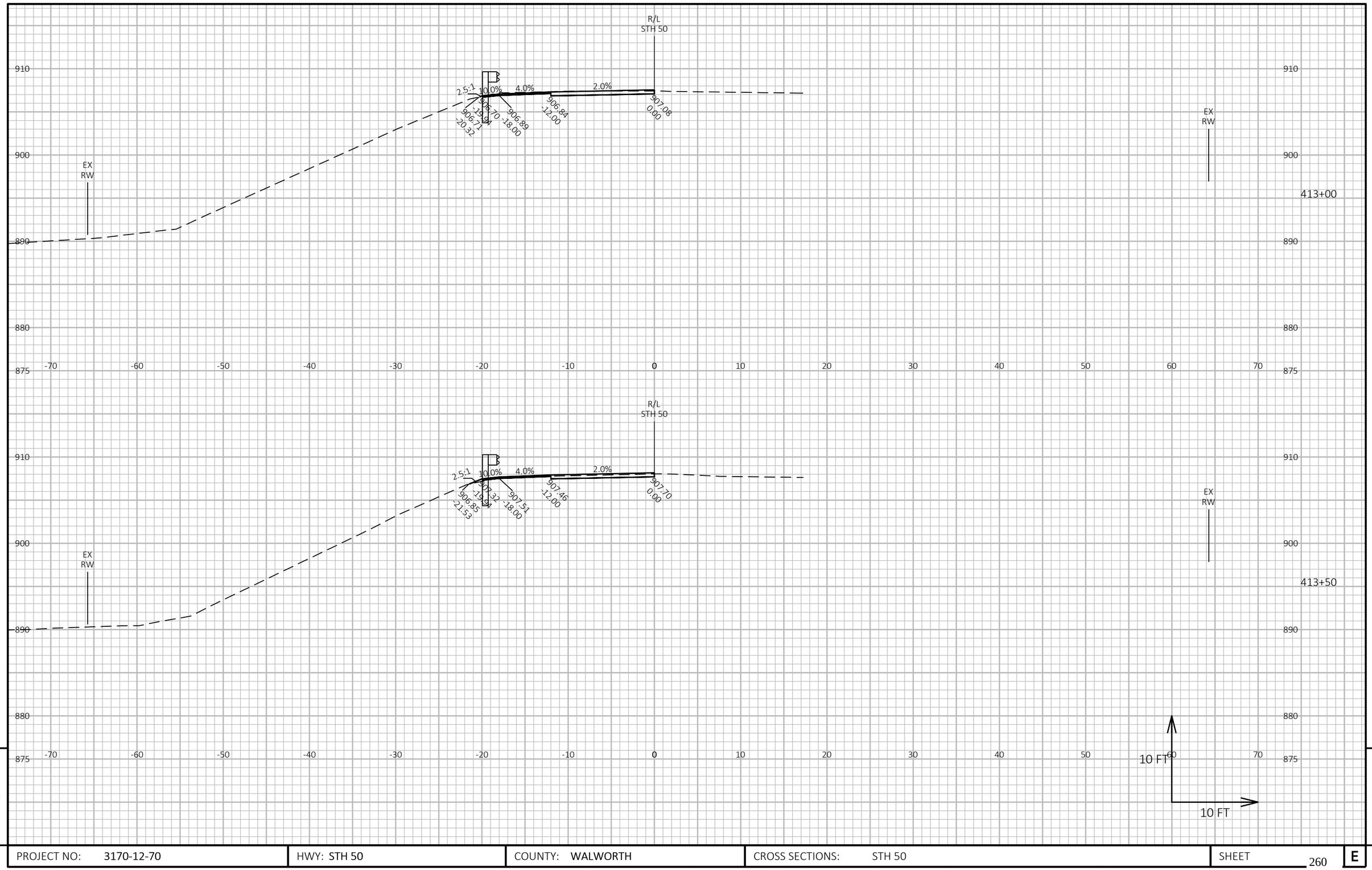
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 259	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 18-xs

PLOT DATE : 11/27/2021 2:06 PM PLOT BY : VALBON LATIFI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

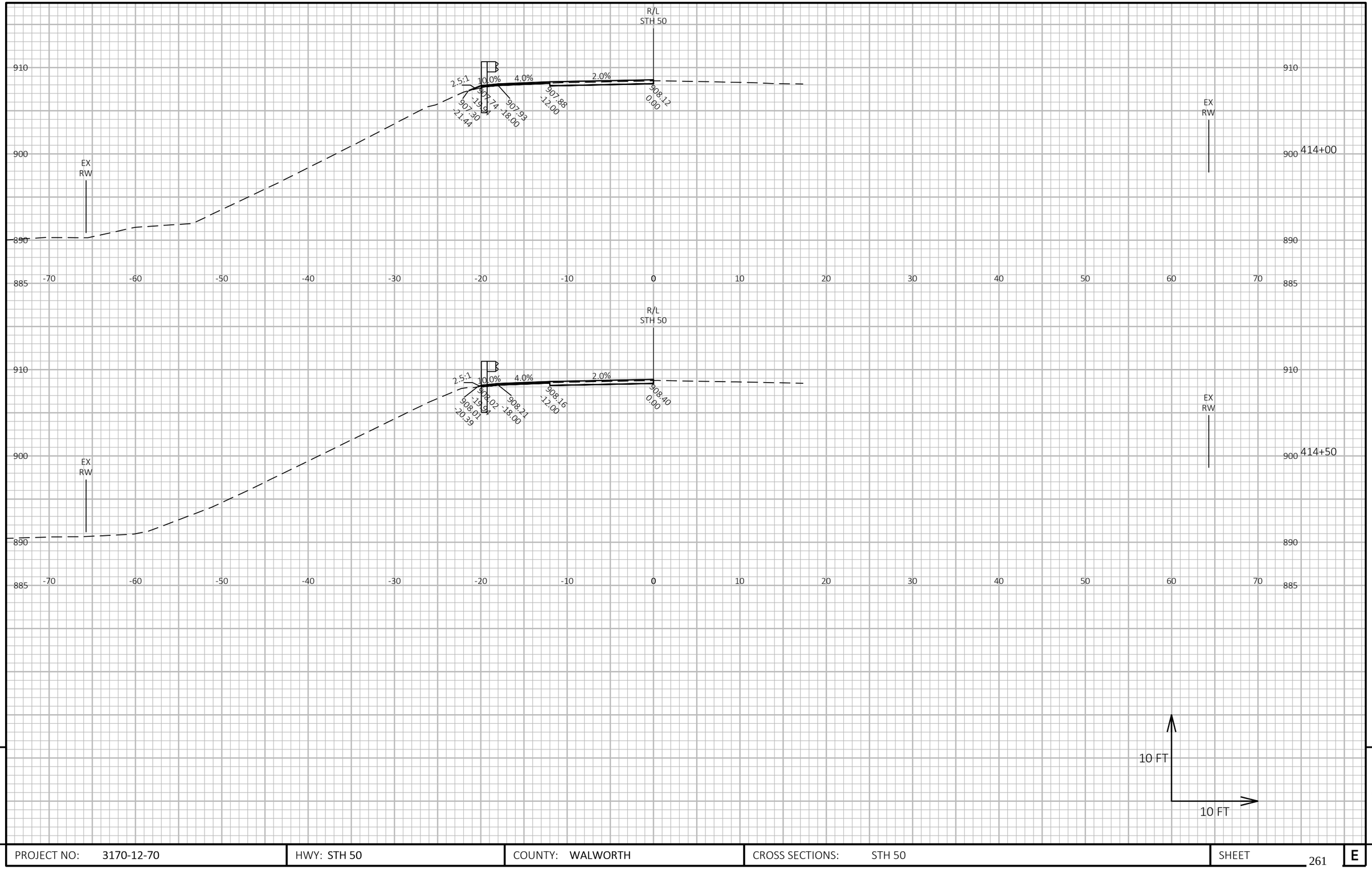


PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 260	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 19-xs

PLOT DATE : 11/27/2021 2:06 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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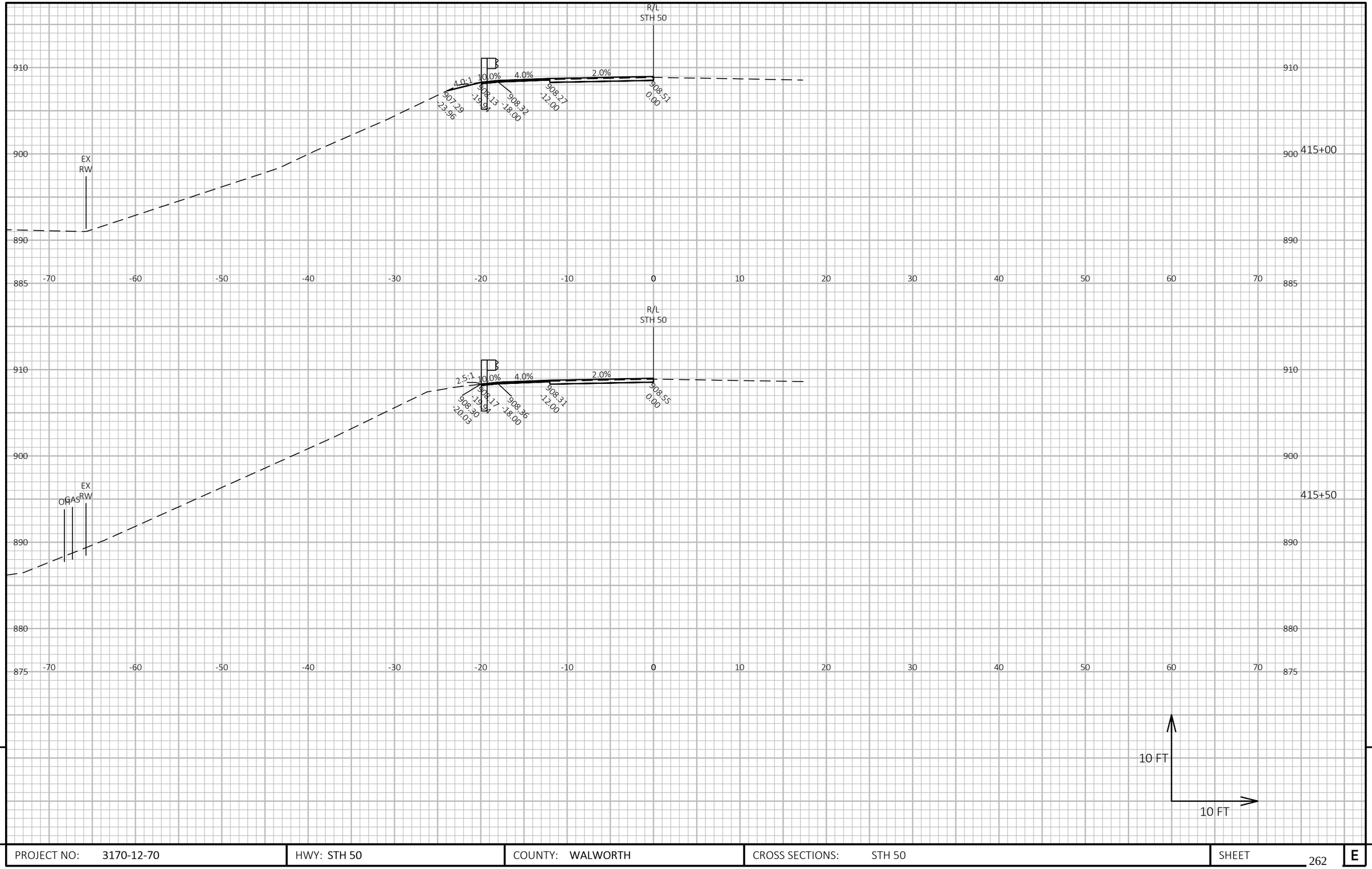
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 261	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 20-xs

PLOT DATE : 11/27/2021 2:06 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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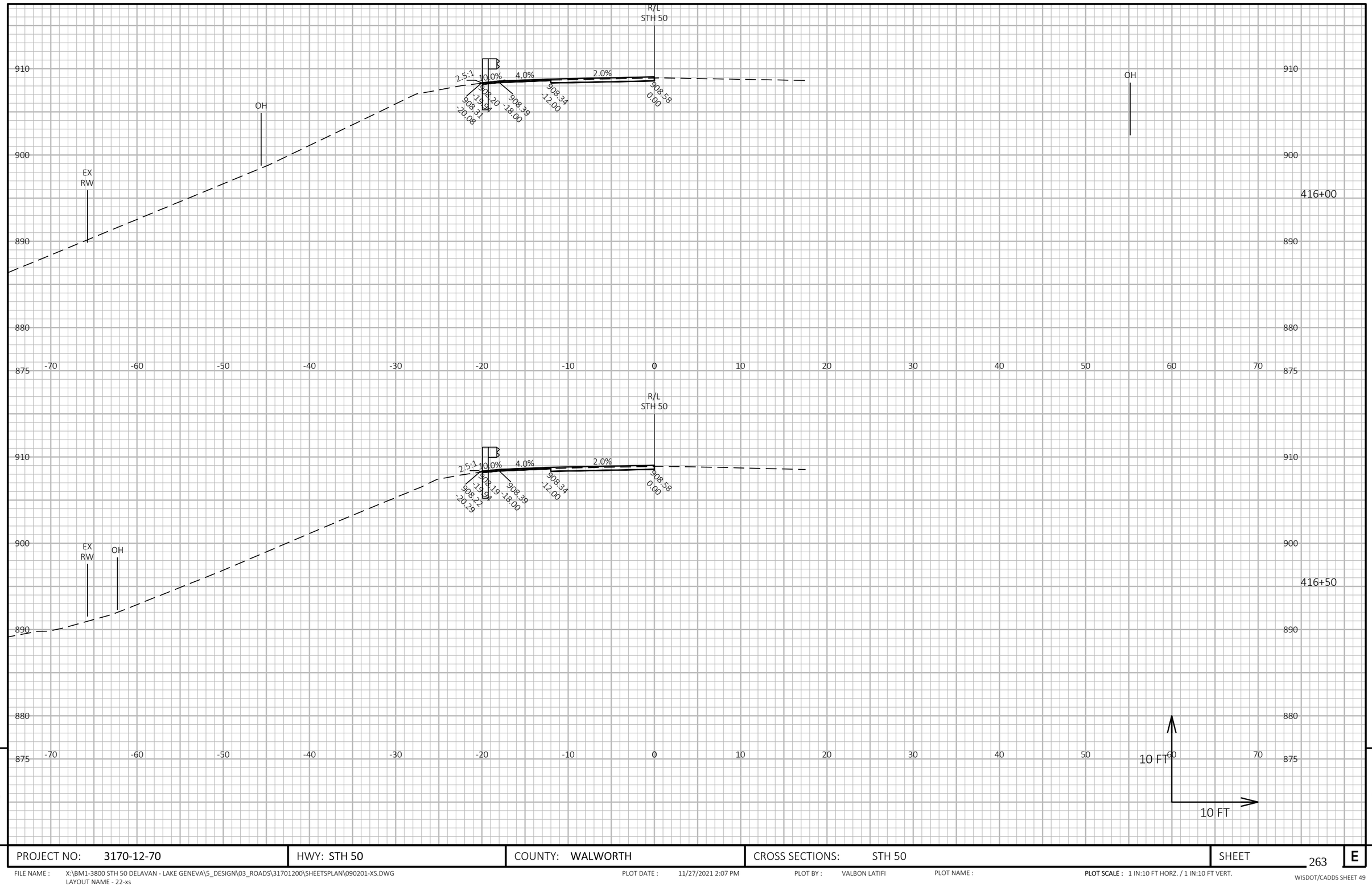
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 262	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 21-xs

PLOT DATE : 11/27/2021 2:07 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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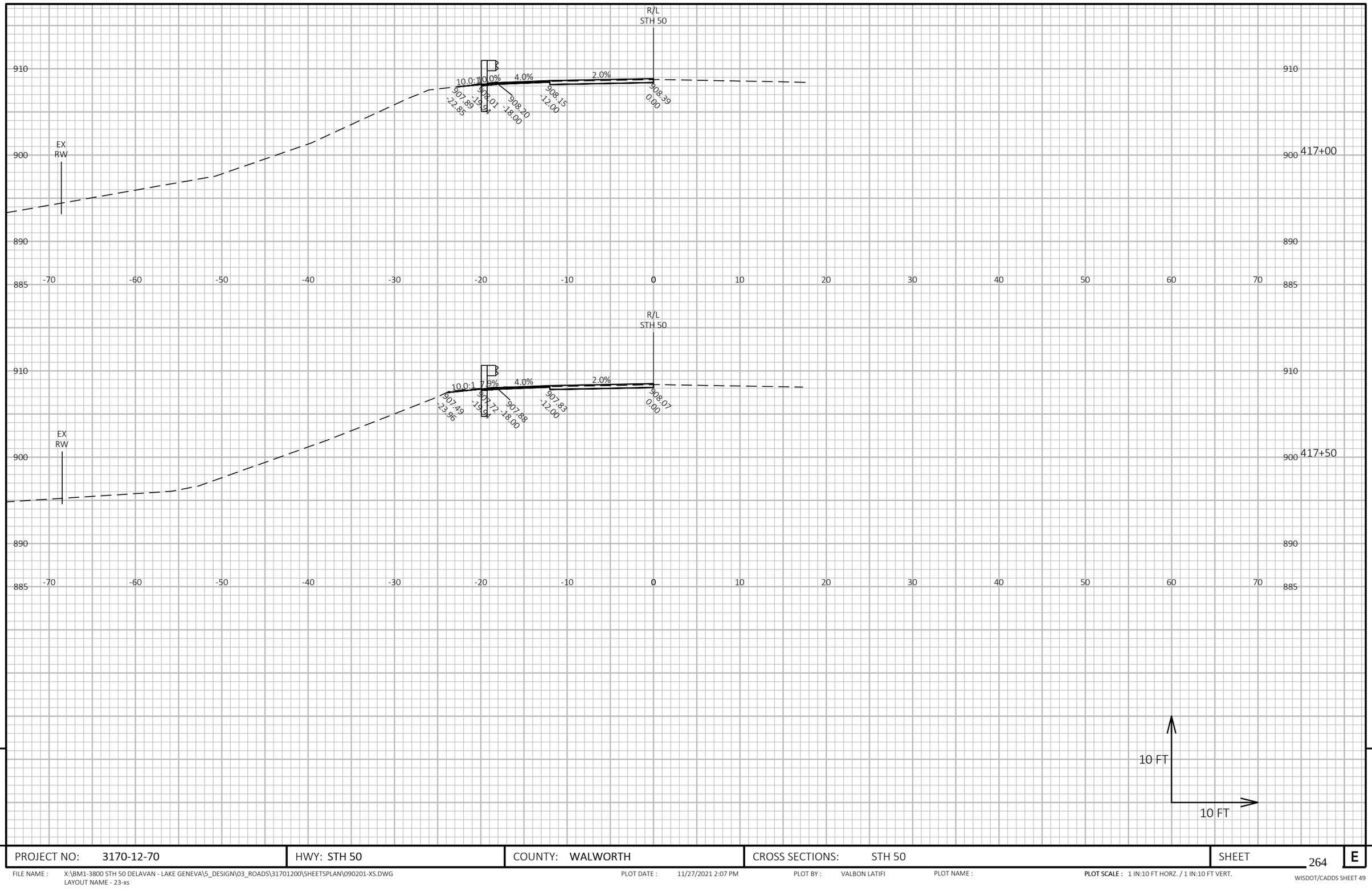
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 263	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 22-xs

PLOT DATE : 11/27/2021 2:07 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

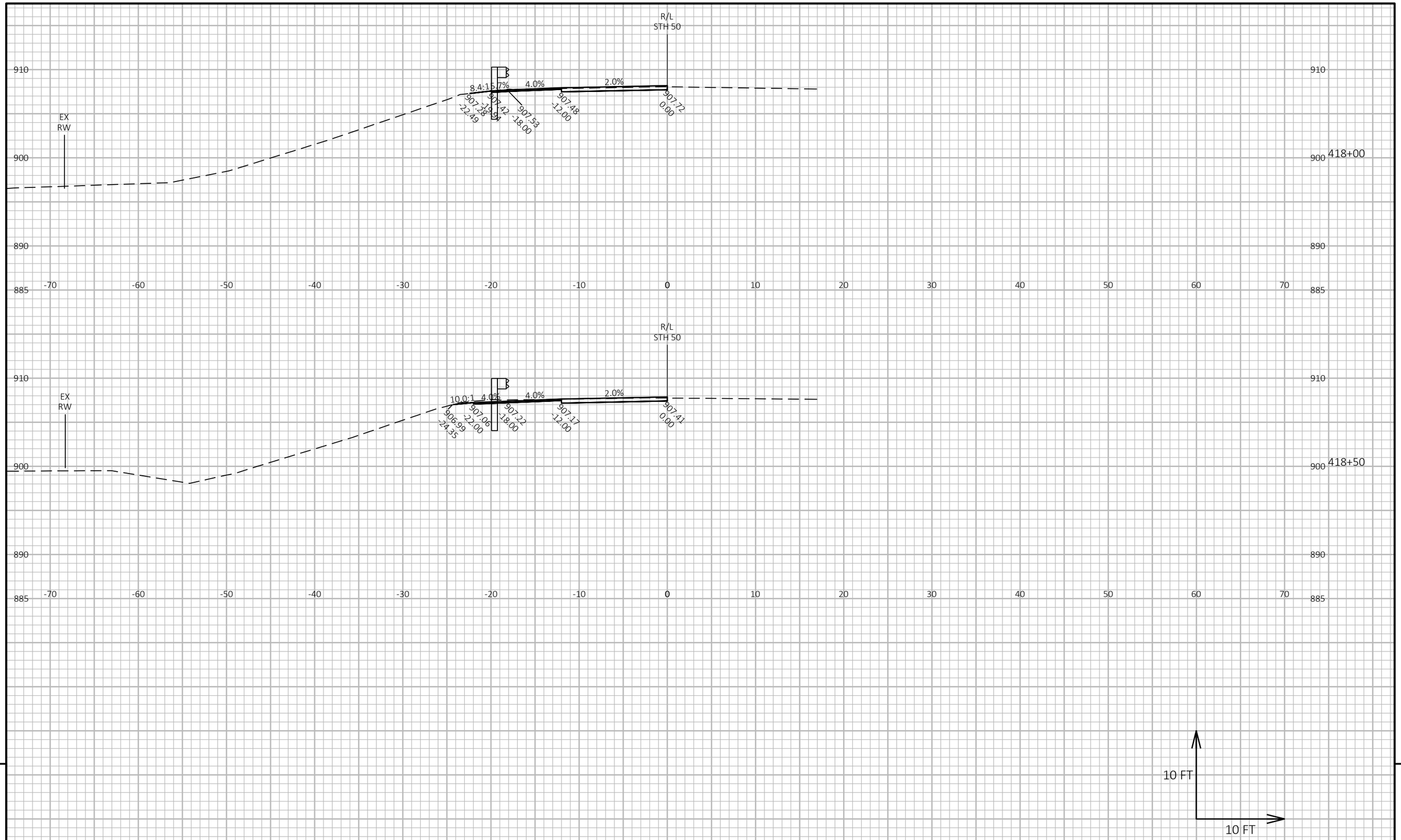
WISDOT/CADDS SHEET 49



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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 264	E



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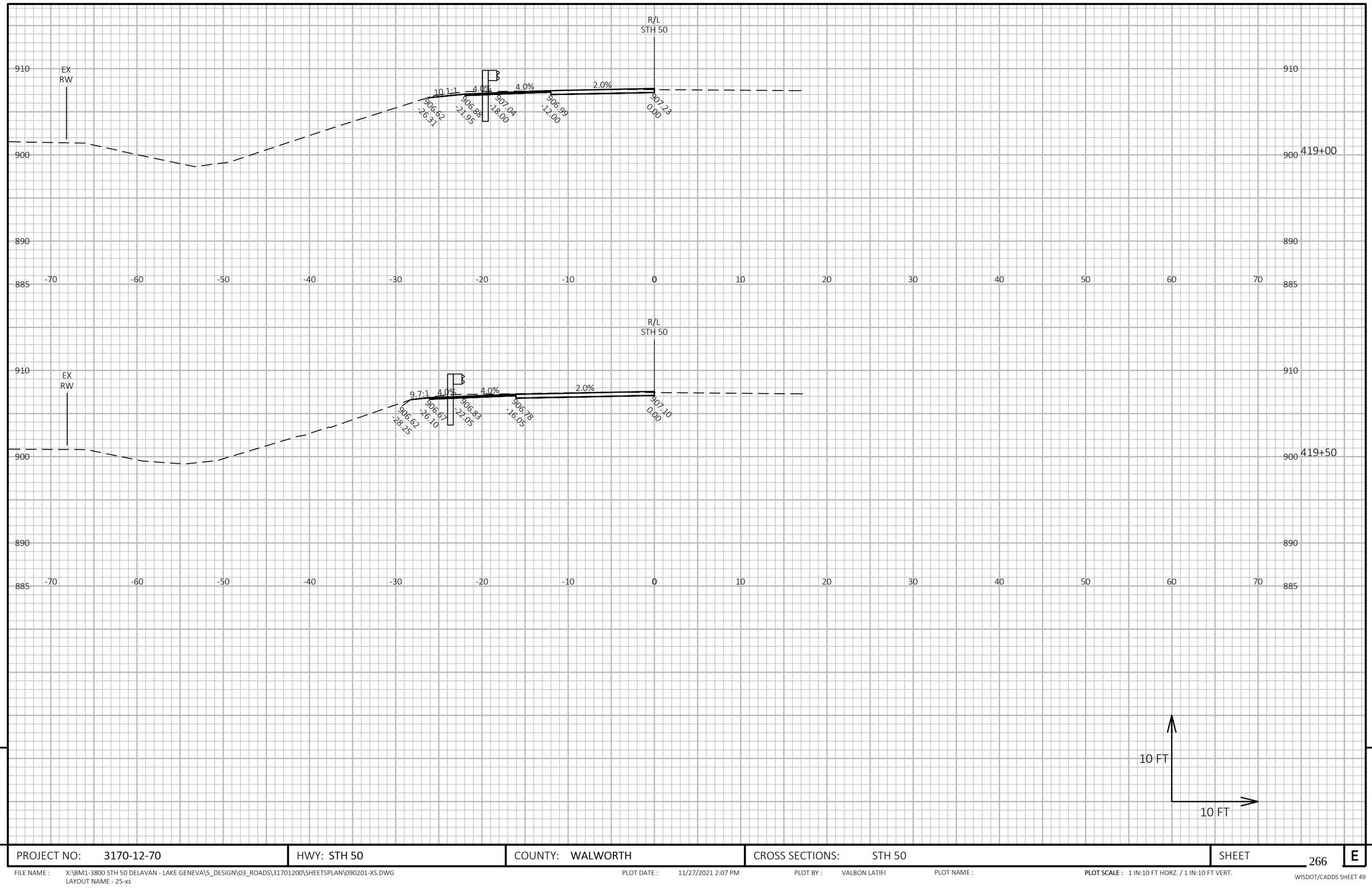
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 265	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 24-xs

PLOT DATE : 11/27/2021 2:07 PM PLOT BY : VALBON LATIFI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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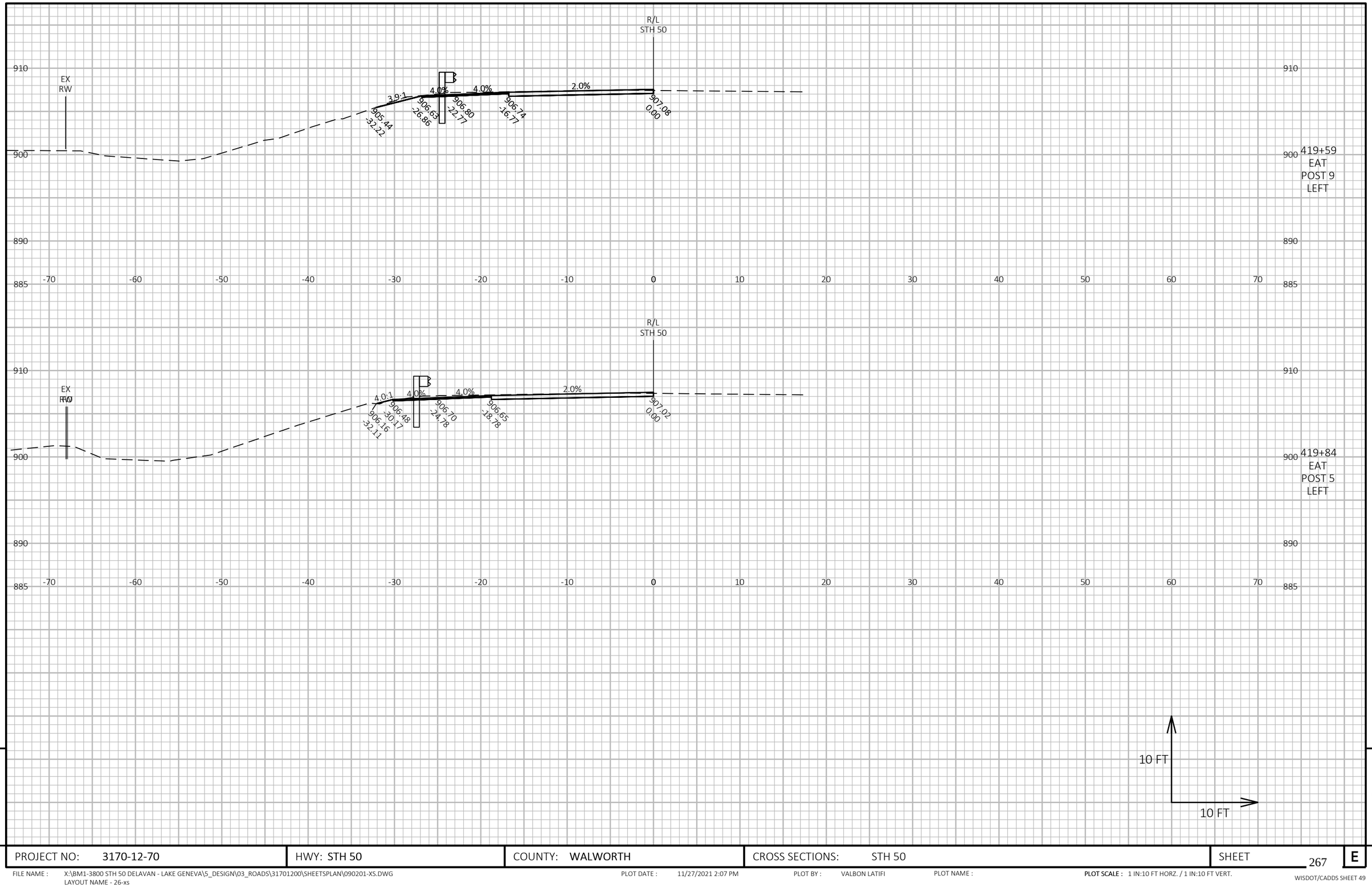
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 266	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 25-xs

PLOT DATE : 11/27/2021 2:07 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

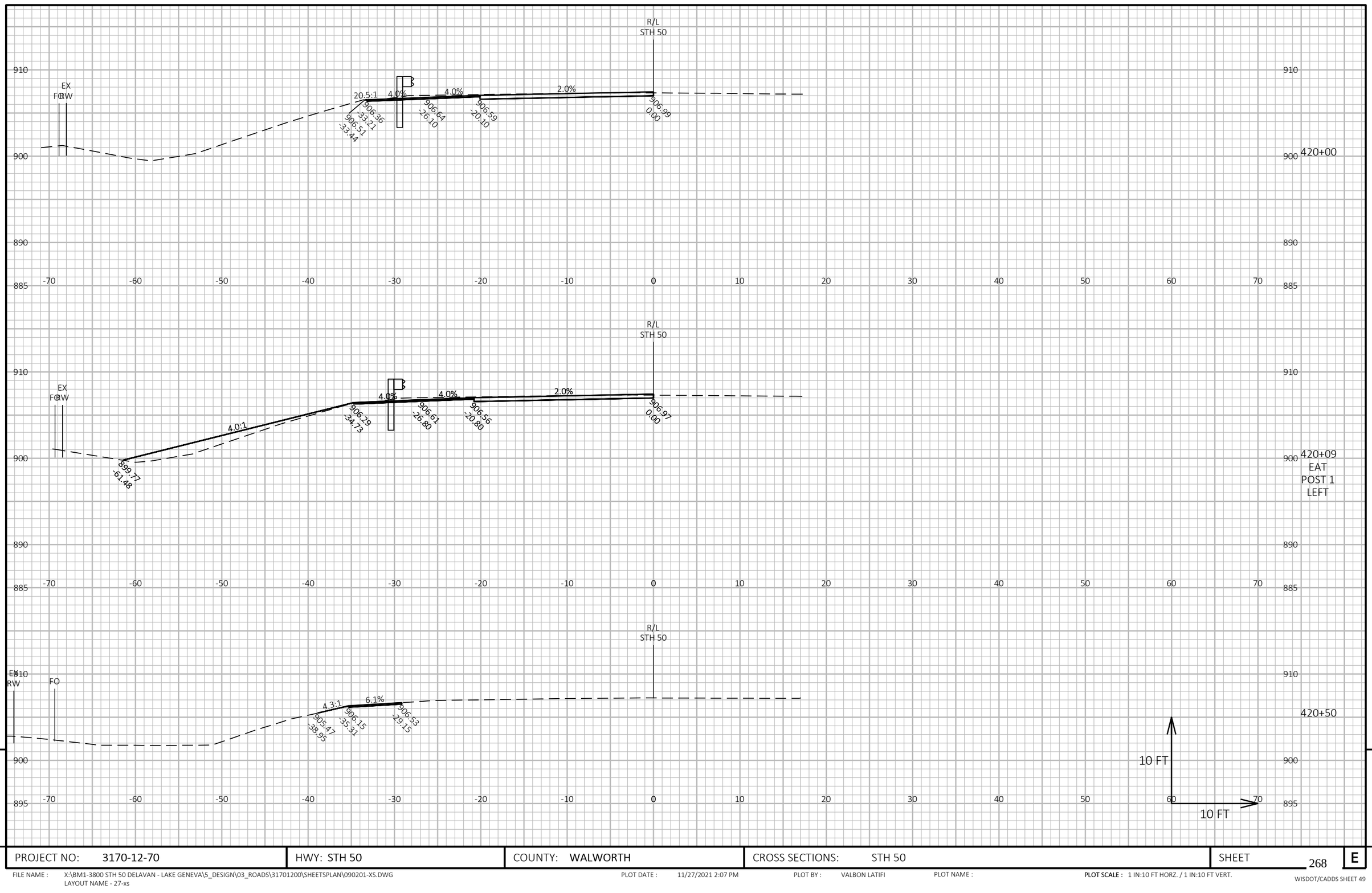
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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 267	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 26-xs

PLOT DATE : 11/27/2021 2:07 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

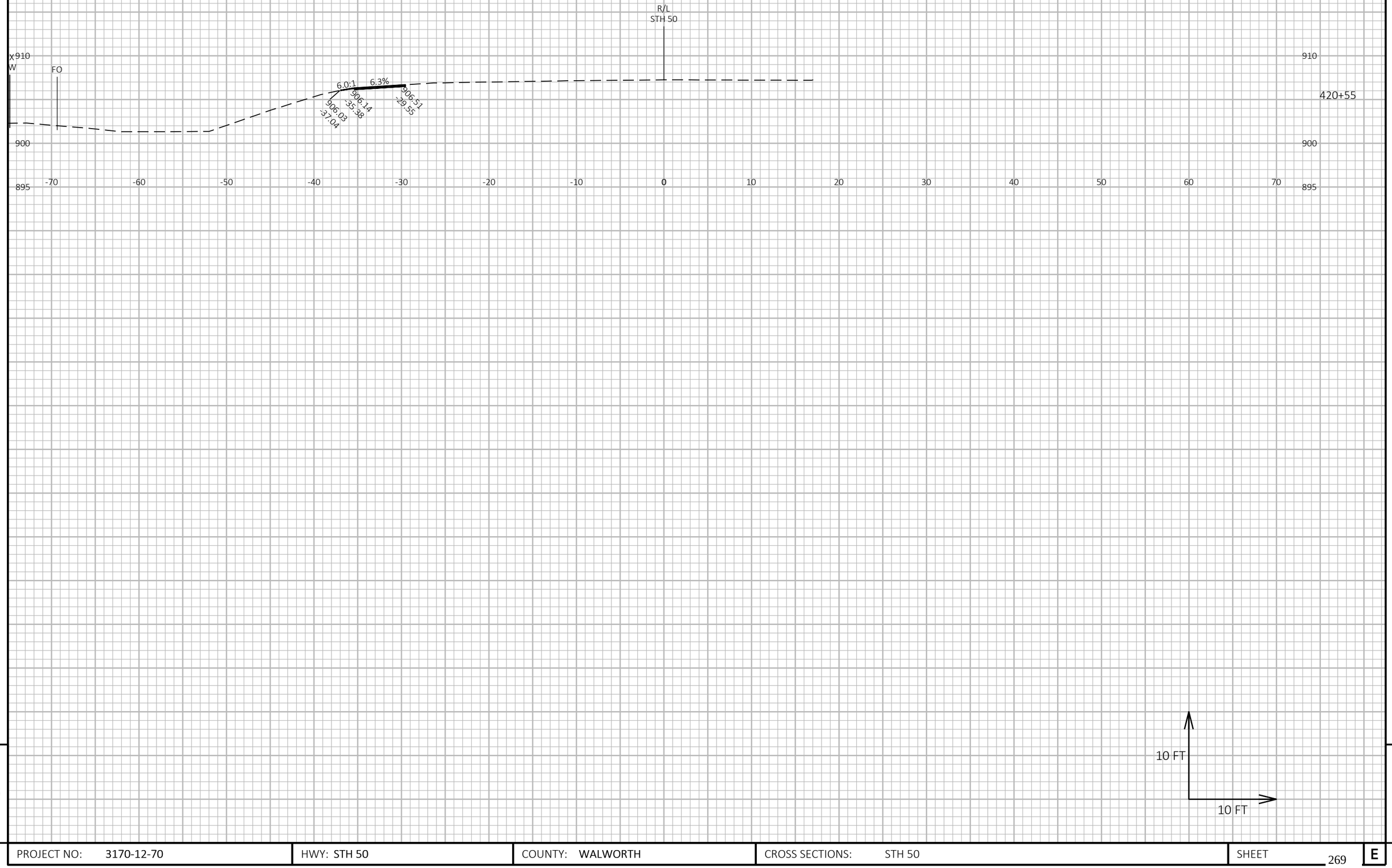
PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 268	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 27-xs

PLOT DATE : 11/27/2021 2:07 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 3170-12-70	HWY: STH 50	COUNTY: WALWORTH	CROSS SECTIONS: STH 50	SHEET 269	E

FILE NAME : X:\BM1-3800 STH 50 DELAVAN - LAKE GENEVA\5_DESIGN\03_ROADS\31701200\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 28-xs

PLOT DATE : 11/27/2021 2:07 PM PLOT BY : VALBON LATIFI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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