WKE

MAY 2023

PROJECT ID: 3694-00-71

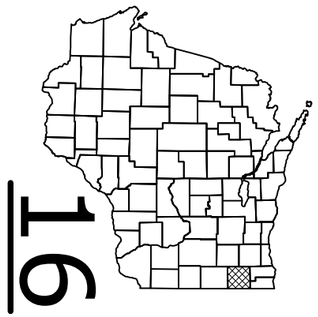
WITH: N/A

COUNTY: WALWORTH

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control)
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 = 396



N

DESIGN DESIGNATION

A.A.D.T.	2026	=	4,490
A.A.D.T.	2046	=	5,060
D.H.V.		=	550
D.D.		=	60/40
T.		=	11.6%
DESIGN SPEED		=	60 MPH
ESALS		=	1,100,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

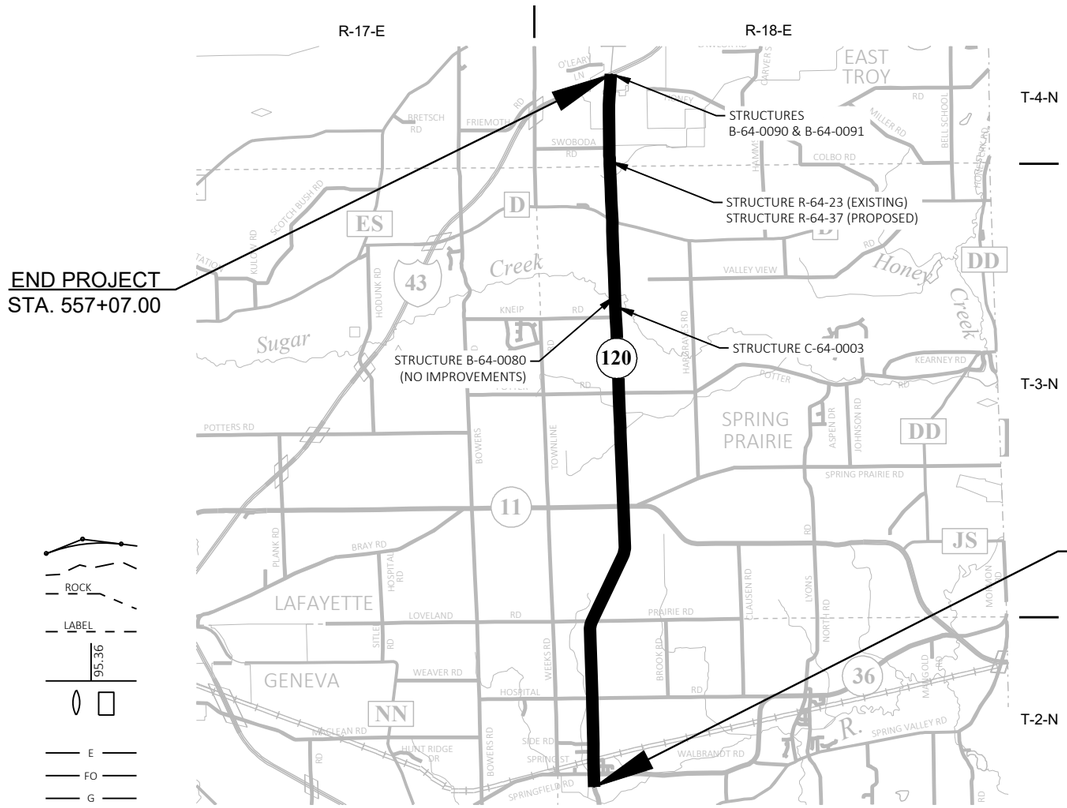
HEBRON - EAST TROY

STH 36 TO O'LEARY LANE

STH 120

WALWORTH COUNTY

STATE PROJECT NUMBER
3694-00-71



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 9.737

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

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

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3694-00-71	———	———

ORIGINAL PLANS PREPARED BY:

STRAND ASSOCIATES®

126 N. JEFFERSON STREET, SUITE 350
MILWAUKEE, WISCONSIN 53202
(414) 271-0771

WISCONSIN
ERIC J NOTSON
E-46397
WAUWATOSA WI
PROFESSIONAL ENGINEER

1/10/2023

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	STRAND ASSOCIATES, INC.
Designer	STRAND ASSOCIATES, INC.
Project Manager	GARY METZER, P.E.
Regional Examiner	WISDOT SE REGION
Regional Supervisor	JANET CANNON, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 1/10/2023 Gary Metzer (Signature)

E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 12/1/2022 1:20 PM

PLOT BY : NOTSON, ERIC

PLOT NAME :

GENERAL NOTES

THE CENTERLINE OF STH 120 IS APPROXIMATELY THE MAINLINE REFERENCE LINE.

DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

COMPLETE FINAL RESTORATION OF DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE OR TEMPORARY SEED AND MULCH WITHIN 5 DAYS OF DISTURBANCE.

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

WHEN THE QUANTITY OF BASE AGGREGATE DENSE IS MEASURED FOR PAYMENT IN TONS, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

THERE MAY BE UTILITY FACILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THAT AREA.

ALL EXISTING SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OPERATIONS REQUIRE THEIR REMOVAL OR UNLESS THE ENGINEER APPROVES THEIR REMOVAL.

DO NOT STORE EQUIPMENT OR MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS, OR WATERWAYS.

THE EXACT PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE LOCATION OF STOP LINES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

UTILITY CONTACTS

MICHAEL VANBOVEN
AT&T WISCONSIN - COMMUNICATION LINE
411 7TH STREET
RACINE, WI 53403
(262) 676-3958
MV3658@ATT.COM

CHRIS DAILEY
ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
P.O. BOX 47
WAUKESHA, WI 53187
(262) 506-6884
CDAILEY@ATCLLC.COM

SCOTT HEINZELMAN
CENTURYLINK - COMMUNICATION LINE
144 N PEARL STREET
BERLIN, WI 54923
(608) 757-4802
MOBILE: (920) 757-4802
SCOTT.HEINZELMAN@LUMEN.COM

SHAD GARCIA
EVERSTREAM - COMMUNICATION LINE
324 E WISCONSIN AVE, SUITE 730
MILWAUKEE, WI 53202
(414) 409-1708
MOBILE: (414) 522-6685
SGARCIA@EVERSTREAM.NET

CORY SCHMUKI
MIDWEST FIBER NETWORKS LLC - COMMUNICATION LINE
6070 NORTH FLINT ROAD
GLENDALE, WI 53209
(414) 672-2729
MOBILE: (414) 349-2764
CSCHMUKI@MIDWESTFIBERNETWORKS.COM

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

ERIK BORGEN
STATE LONG DISTANCE - COMMUNICATION LINE
525 JUNCTION ROAD
MADISON, WI 53717
(608) 664-4438
ERIK.BORGEN@TDSTELECOM.COM

JASON EQUITZ
VILLAGE OF EAST TROY - WATER
2015 ENERGY DRIVE
EAST TROY, WI 53120
(262) 642-6255
JEQUITZ@EASTTROYWI.GOV

ADAM PSICIHULIS
WE ENERGIES - ELECTRIC
700 SOUTH KANE STREET
BURLINGTON, WI 53105
(262) 763-1011
MOBILE: (262) 490-1259
WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

SCOTT HOLSTEIN
WE ENERGIES - GAS/PETROLEUM
700 SOUTH KANE STREET
BURLINGTON, WI 53105
(262) 763-1084
MOBILE: (262) 949-0490
WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

LORI KETTER
WINDSTREAM - COMMUNICATION LINE
969 WAUBE LANE
GREEN BAY, WI 54302
(920) 410-6902
LORI.KETTER@WINDSTREAM.COM

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

HMA PAVEMENT SUMMARY TABLE

3 1/2" HMA PAVEMENT (MAINLINE MILL AND OVERLAY)*		
LAYER	THICKNESS	HMA TYPE
UPPER LAYER	1 3/4"	4 LT 58-28 S
LOWER LAYER	1 3/4"	4 LT 58-28 S

1 3/4" HMA PAVEMENT (MAINLINE SHOULDERS ADJACENT TO ASPHALT AND CONCRETE)*		
LAYER	THICKNESS	HMA TYPE
UPPER LAYER	1 3/4"	4 LT 58-28 S

6" HMA PAVEMENT (RIGHT TURN LANE WIDENING AND CULVERT REPLACEMENTS)*		
LAYER	THICKNESS	HMA TYPE
UPPER LAYER	1 3/4"	4 LT 58-28 S
MIDDLE LAYER	2"	4 LT 58-28 S
LOWER LAYER	2 1/4"	4 LT 58-28 S

* SEE TYPICAL SECTIONS FOR HMA PAVEMENT LOCATIONS

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
PLAN DETAILS
CURB RAMP DETAILS
EROSION CONTROL
CULVERT PIPE
PERMANENT SIGNING
FLASHER REMOVAL PLAN
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR
SNOW FENCE
SURVEY CONTROL

DESIGNER NOTES

DESIGN, PLANS, SPECIFICATIONS, AND ESTIMATE FOR PERMANENT SIGNING AND STOP SIGN SOLAR BEACON SYSTEM PROVIDED BY WISDOT.

DESIGN, PLANS, SPECIFICATIONS, AND ESTIMATE FOR REMAINING ITEMS PROVIDED BY STRAND ASSOCIATES, INC.

SEWRPC CONTACT

ROB MERRY
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
(262) 953-4289
RMERRY@SEWRPC.ORG

DNR LIAISON

CRAIG WEBSTER
DNR SERVICE CENTER
141 NW BARSTOW STREET
WAUKESHA, WI 53188
(262) 574-2141
CRAIG.WEBSTER@WISCONSIN.GOV

WISDOT REGION CONTACT

GARY METZER, P.E.
WISDOT SOUTHEAST REGION
WAUKESHA OFFICE
141 NW BARSTOW STREET
WAUKESHA, WI 53187
(262) 548-5685
GARY.METZER@DOT.WI.GOV

DESIGN CONSULTANT

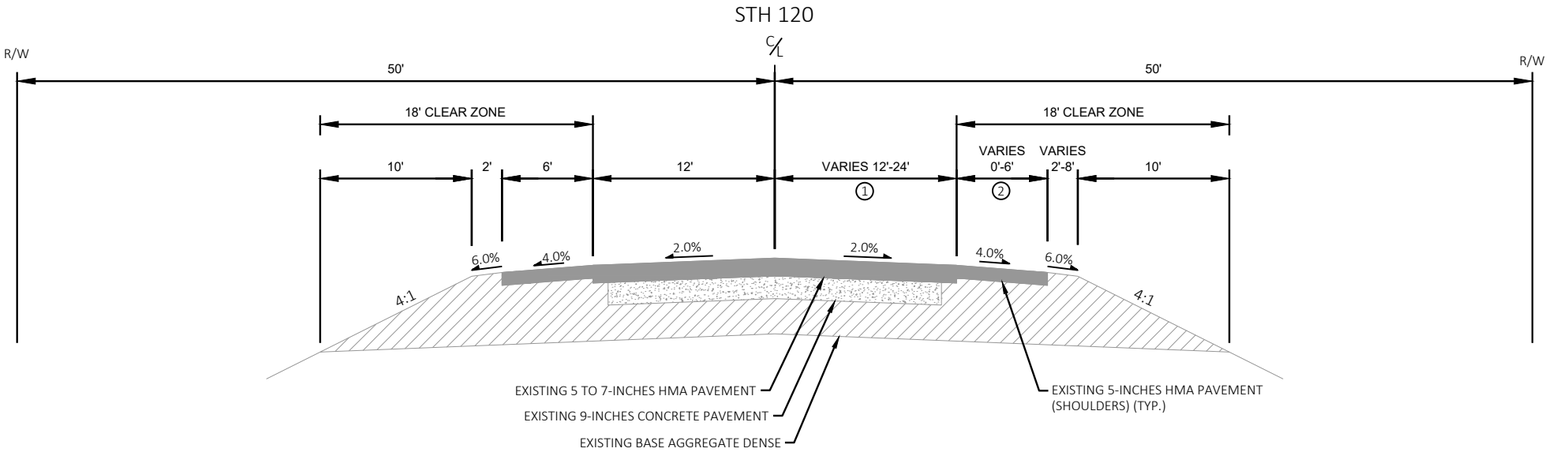
ERIC NOTSON, P.E.
STRAND ASSOCIATES, INC.
126 N. JEFFERSON STREET, SUITE 350
MILWAUKEE, WI 53202
(414) 271-0771
ERIC.NOTSON@STRAND.COM



2

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020201-po
PLOT DATE : 12/1/2022 11:30 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1:1750
WISDOT/CADDS SHEET 44

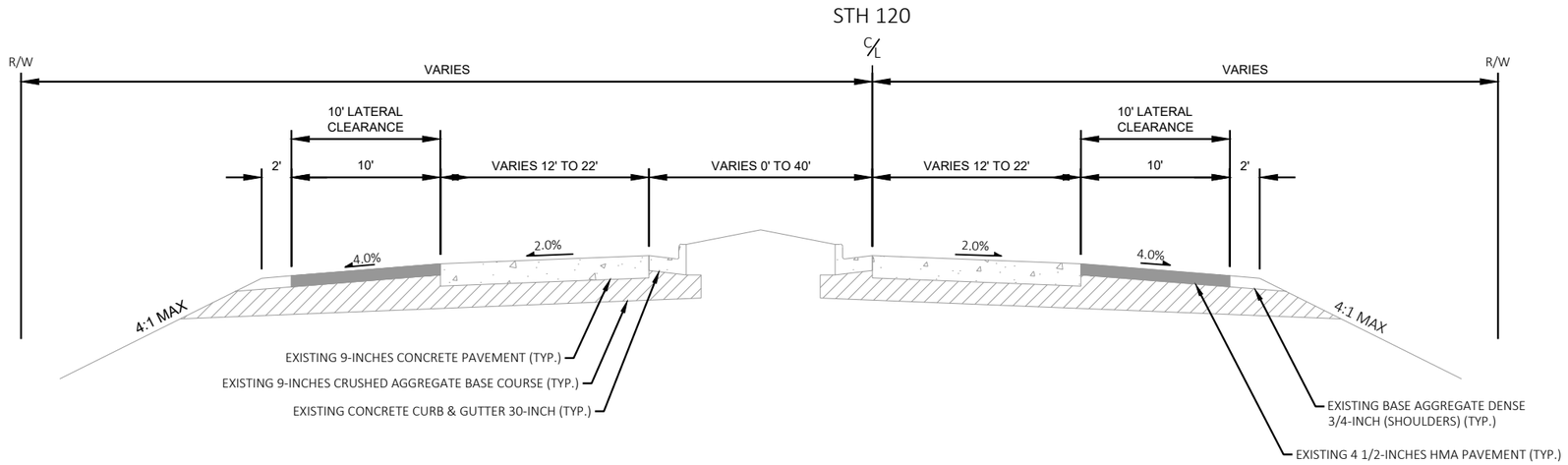


① STA. 42+93.70 TO STA. 43+78.76 = 12'
STA. 43+78.76 TO STA 46+03.00 = VARIES 12' TO 24'
STA. 46+03.00 TO STA. 47+97.53 = 24'

② STA. 42+93.70 TO STA. 43+78.76 = 6'
STA. 43+78.76 TO STA 46+03.00 = VARIES 6' TO 0'
STA. 46+03.00 TO STA. 47+97.53 = 0'

EXISTING TYPICAL SECTION - STH 120 MAINLINE

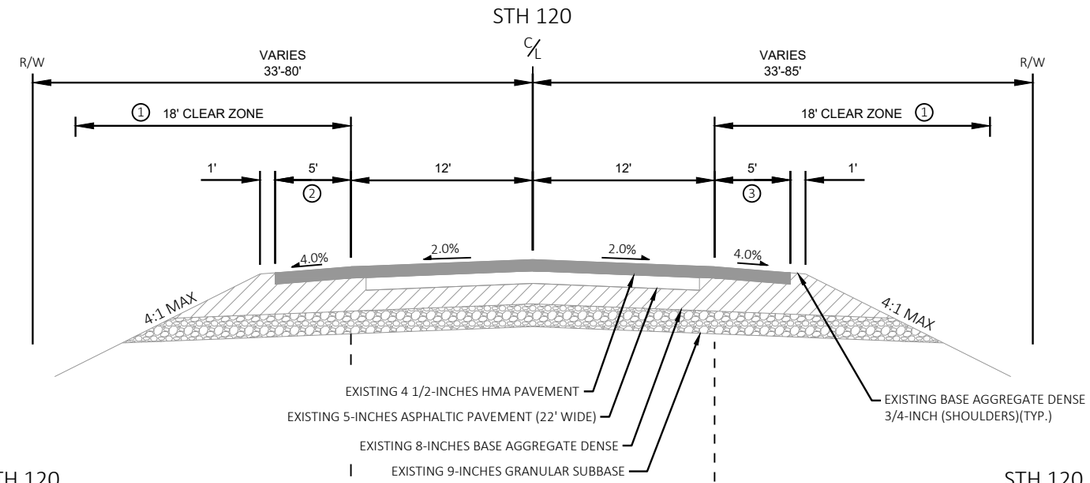
STA. 42+93.70 TO STA. 47+97.53



EXISTING TYPICAL SECTION - STH 120

STA. 520+83.00 TO STA. 557+07.00

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TYPICAL SECTIONS	SHEET 4	E

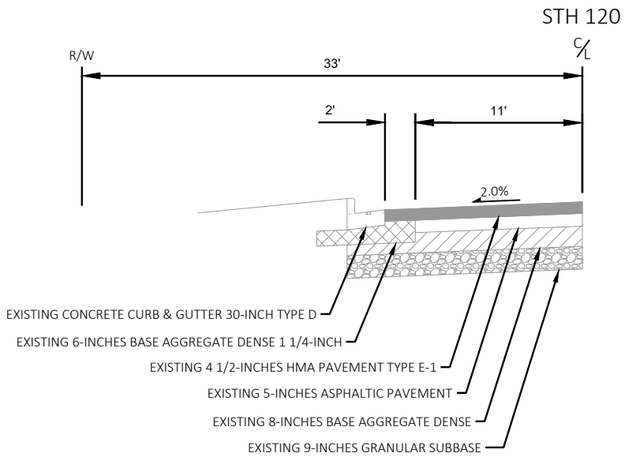


① STA. 49+36.00 TO STA. 72+00.00 CLEAR ZONE = 10'.

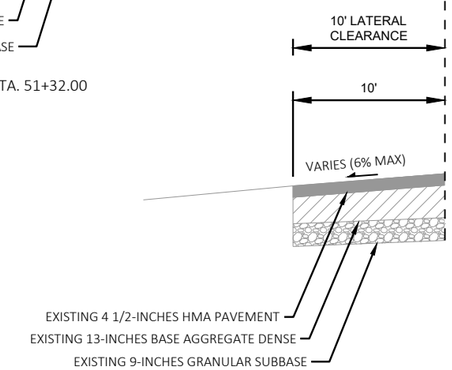
② STA. 51+32.00 TO STA. 56+98.00 = 3'

③ STA. 53+10.00 TO STA. 56+98.00 = 3'

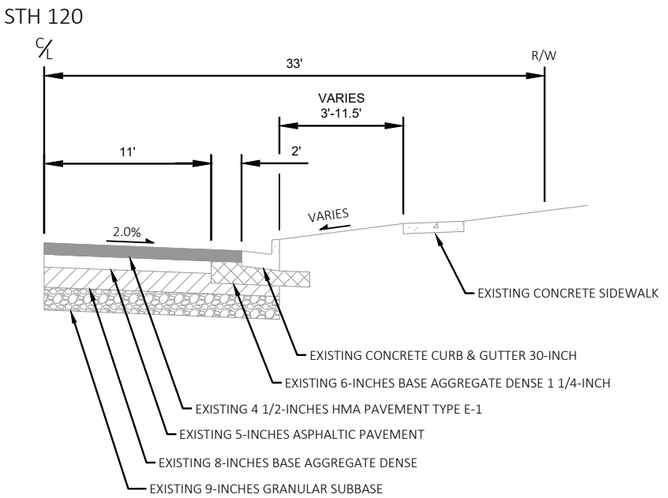
④ STA. 63+37.00TO STA. 64+07 = VARIES 10' TO 5'
STA. 64+07.00 TO STA. 64+50.00 = 5'



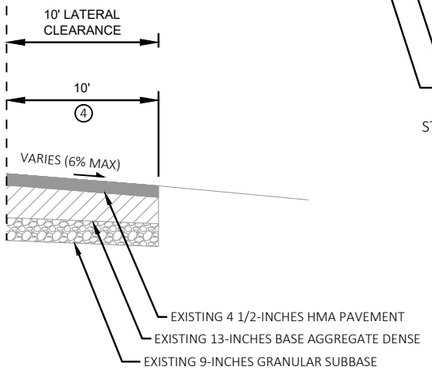
STA. 49+36.00 TO STA. 51+32.00



STA. 57+30.00 TO STA. 64+50.00



STA. 49+36.00 TO STA. 53+10.00



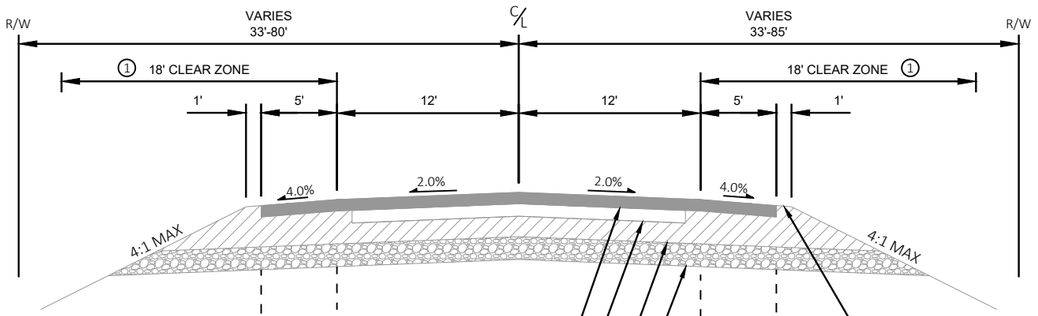
STA. 57+30.00 TO STA. 64+50.00

EXISTING TYPICAL SECTION - STH 120

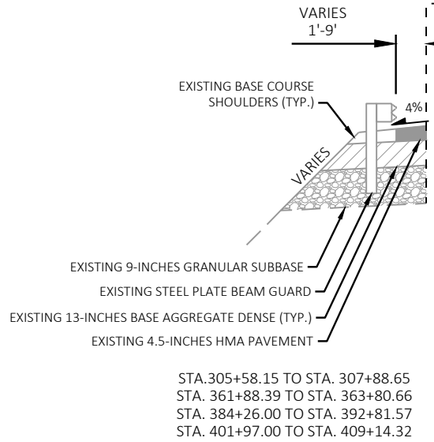
STA. 47+97.53 TO STA. 238+63.00

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TYPICAL SECTIONS	SHEET 5	E

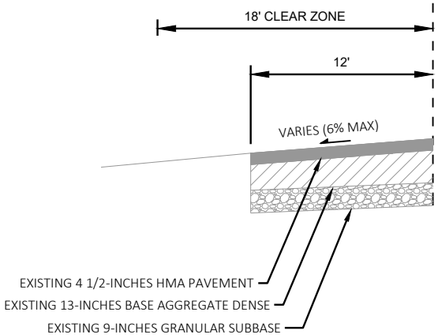
STH 120



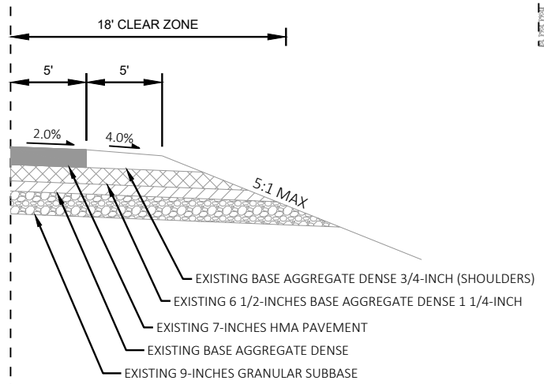
① STA. 490+50 TO STA. 520+83 CLEAR ZONE = 10'



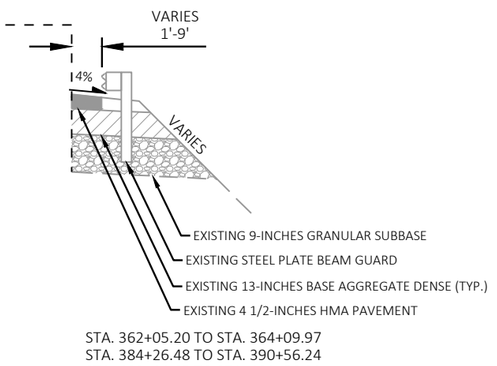
STA.305+58.15 TO STA. 307+88.65
STA. 361+88.39 TO STA. 363+80.66
STA. 384+26.00 TO STA. 392+81.57
STA. 401+97.00 TO STA. 409+14.32



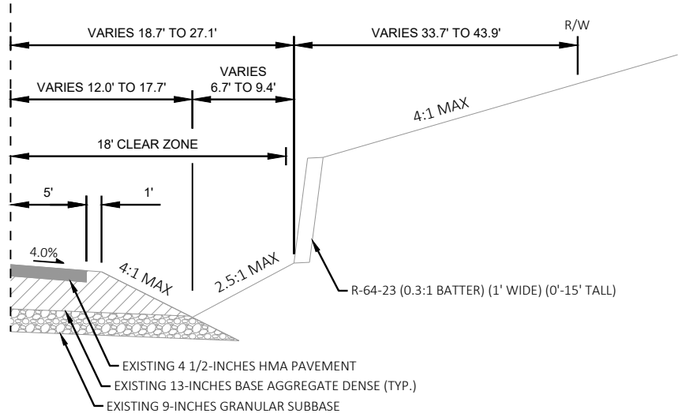
STA. 238+63.00 TO STA. 240+13.00



STA. 238+63.00 TO STA. 240+13.00



STA. 362+05.20 TO STA. 364+09.97
STA. 384+26.48 TO STA. 390+56.24
STA. 403+16.65 TO STA. 409+58.89



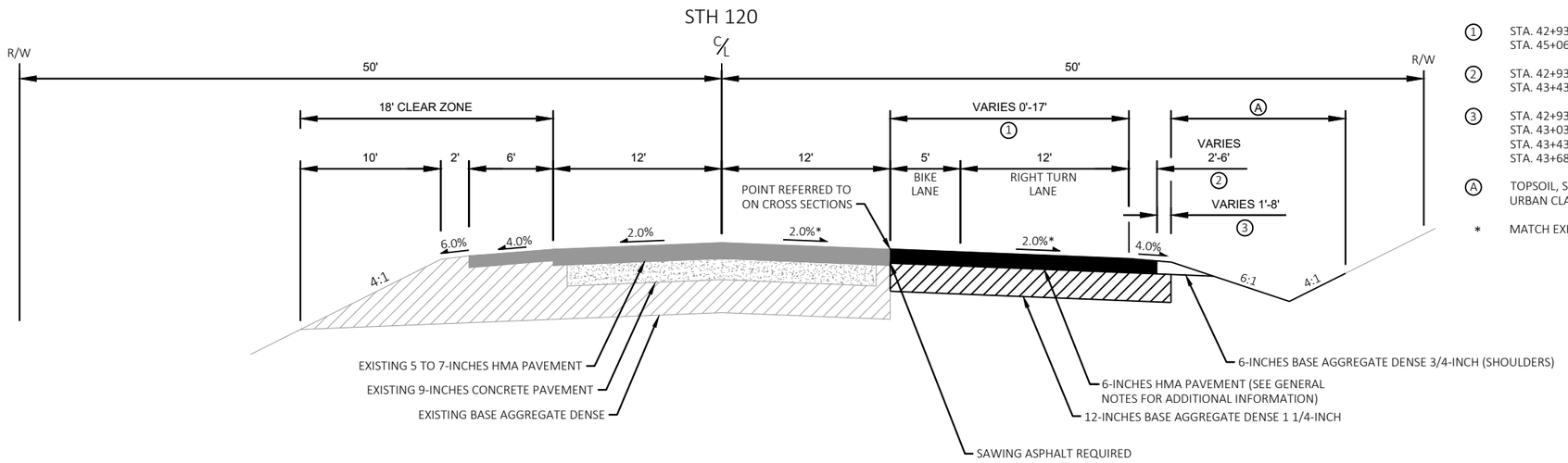
STA. 481+54.00 TO STA. 486+62.00

EXISTING TYPICAL SECTION - STH 120

STA. 238+63.00 TO STA. 520+83.00

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TYPICAL SECTIONS	SHEET 6	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\020301_TS.DWG
LAYOUT NAME - 020303_ts
PLOT DATE : 1/5/2023 3:56 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



① STA. 42+93.70 TO STA. 45+06.20 = VARIES 0' TO 17'
STA. 45+06.20 TO STA. 47+97.53 = 17'

② STA. 42+93.70 TO STA. 43+43.70 = VARIES 6' TO 2'
STA. 43+43.70 TO STA. 47+97.53 = 2'

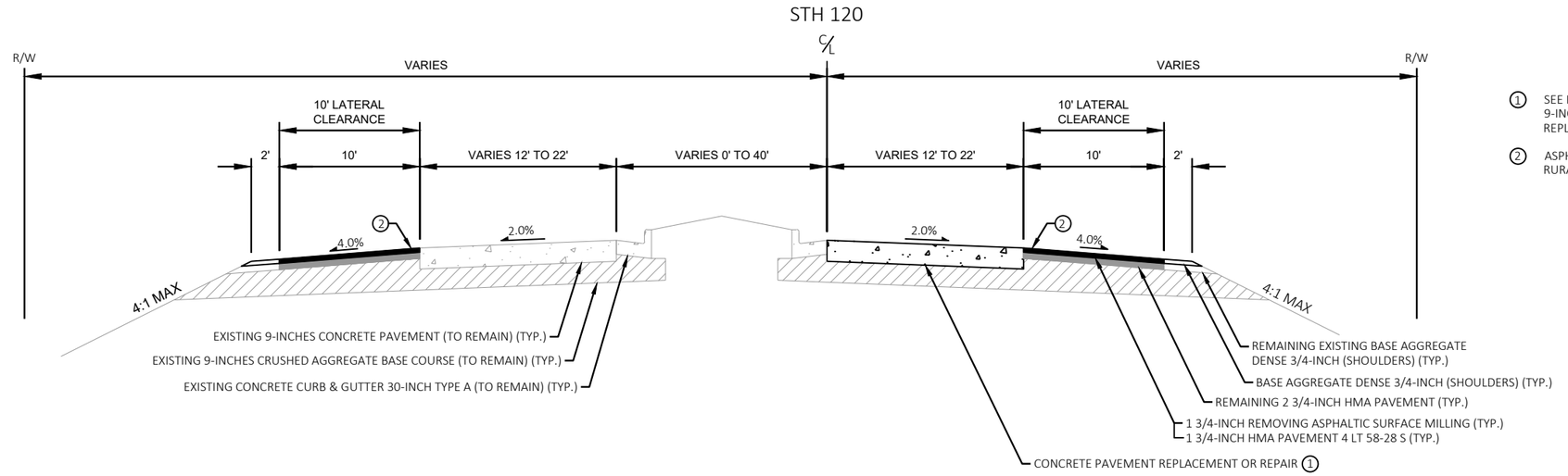
③ STA. 42+93.70 TO STA. 43+03.70 = VARIES 1.5' TO 3'
STA. 43+03.70 TO STA. 43+43.70 = 3'
STA. 43+43.70 TO STA. 43+68.70 = VARIES 3' TO 1'
STA. 43+68.70 TO STA. 47+97.53 = 1'

Ⓐ TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B

* MATCH EXISTING SUPERELEVATION (VARIES 2% TO 4.2%)

PROPOSED TYPICAL SECTION - STH 120 MAINLINE

STA. 42+93.70 TO STA. 47+97.53



① SEE PLAN DETAILS FOR SPECIFIC LOCATION OF 9-INCH MINIMUM CONCRETE PAVEMENT REPLACEMENT OR REPAIR.

② ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL REQ'D.

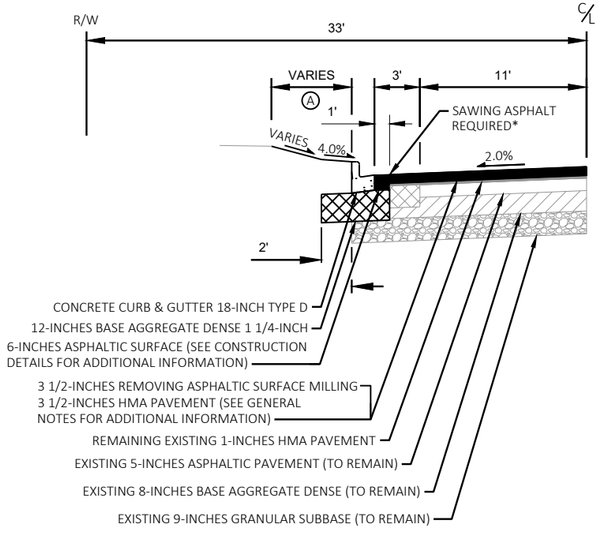
PROPOSED TYPICAL SECTION - STH 120

STA. 520+83.00 TO STA. 557+07.00

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TYPICAL SECTIONS	SHEET 7	E

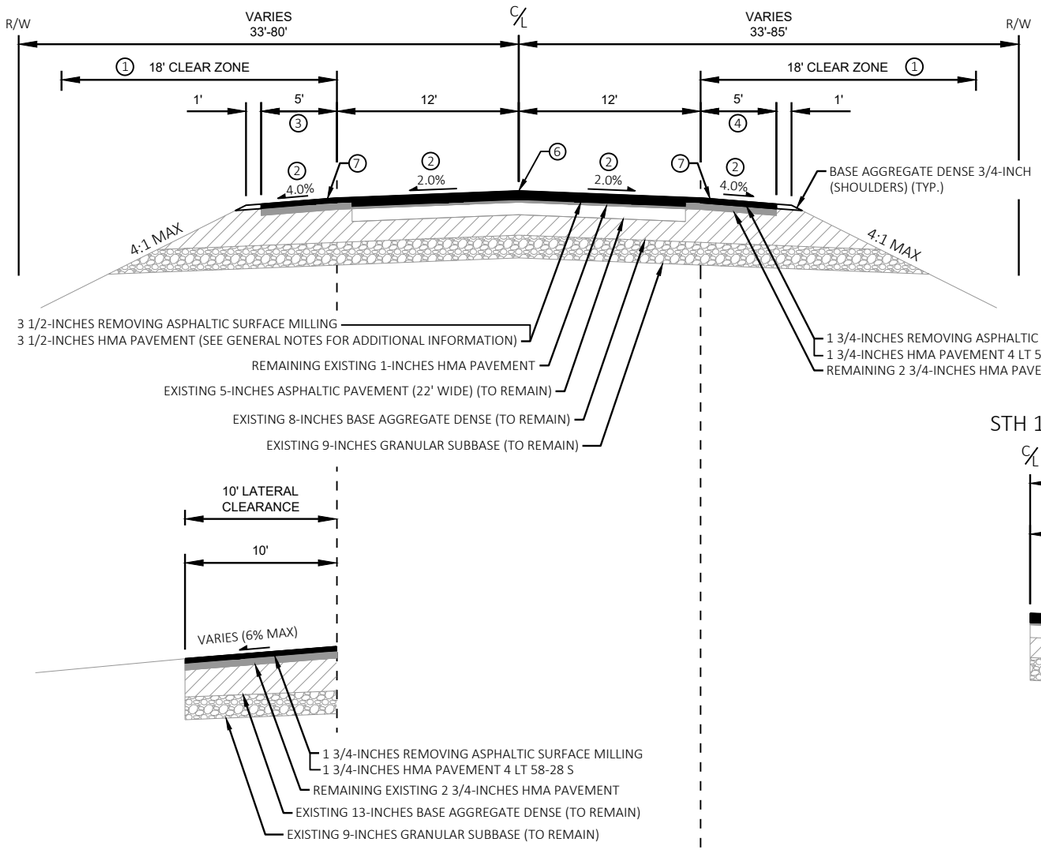
2

STH 120



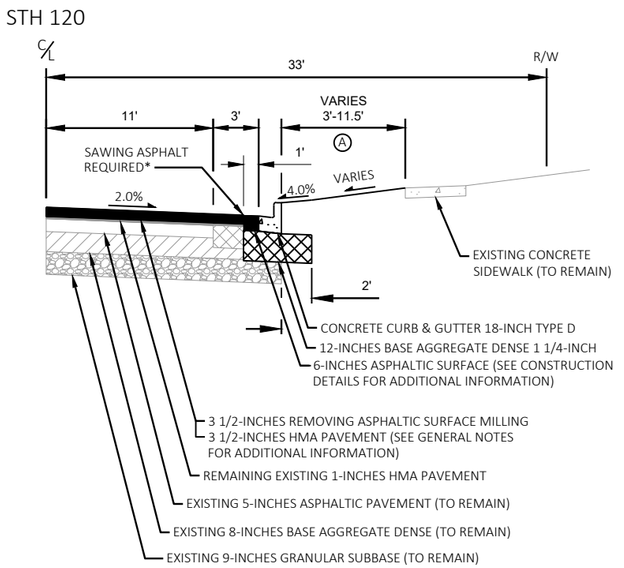
STA. 49+36.00 TO STA. 51+32.00

STH 120

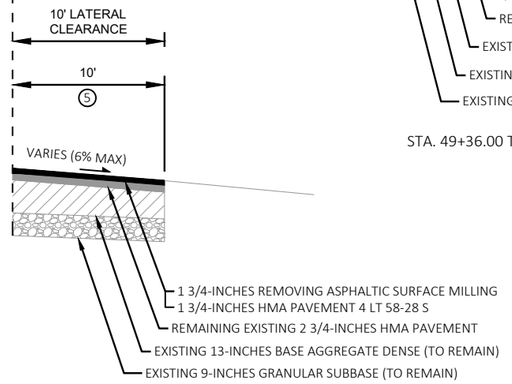


STA. 57+30.00 TO STA. 64+50.00

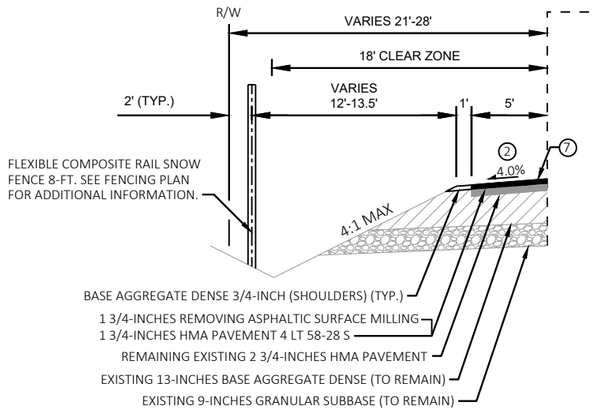
STH 120



STA. 49+36.00 TO STA. 53+10.00



STA. 57+30.00 TO STA. 64+50.00



STA. 143+97.50 TO STA. 151+95.65
STA. 199+01.26 TO STA. 214+40.35
STA. 214+75.17 TO STA. 227+59.17
STA. 230+00.00 TO STA. 233+48.00

1. STA. 49+36.00 TO STA. 72+00.00 CLEAR ZONE = 10'
2. MATCH EXISTING SUPERELEVATION STA. 149+15 TO STA. 156+02 AND STA. 205+35 TO STA. 212+78
3. STA. 51+32.00 TO STA. 56+98.00 = 3'
4. STA. 53+10.00 TO STA. 56+98.00 = 3'
5. STA. 63+37.00 TO STA. 64+07 = VARIES 10' TO 5'
   STA. 64+07.00 TO STA. 64+50.00 = 5'
6. ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL REQ'D
7. ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL REQ'D
A. TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B

* POINT REFERRED TO ON CROSS SECTIONS

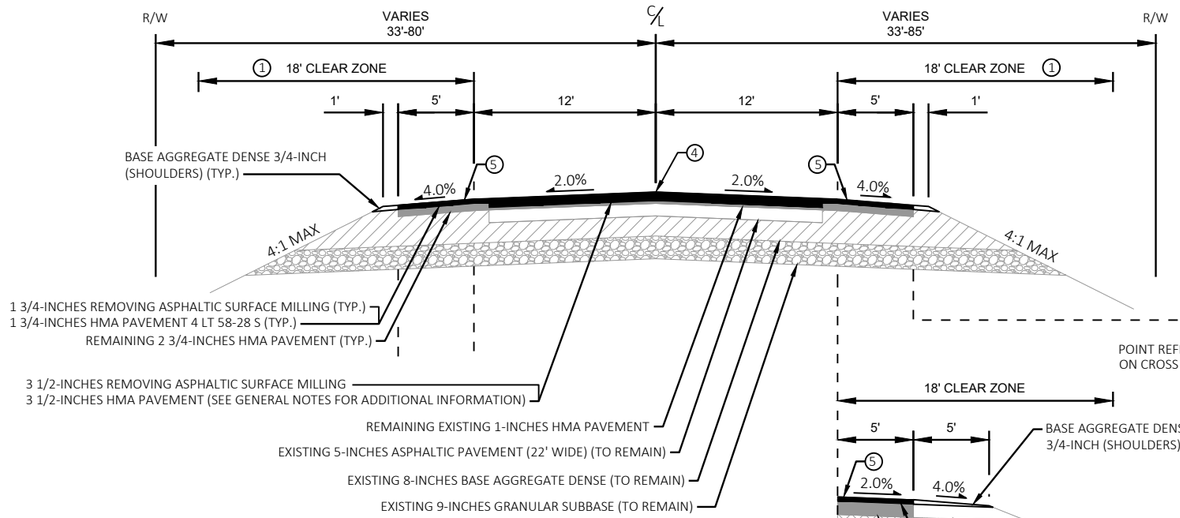
PROPOSED TYPICAL SECTION - STH 120

STA. 47+97.53 TO STA. 238+63.00

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TYPICAL SECTIONS	SHEET 8	E

2

STH 120



① STA. 490+50 TO STA. 520+83 CLEAR ZONE = 10'

② STA. 383+07.33 TO STA. 393+04.94 = 10'

③ STA. 383+82.98 TO STA. 390+79.65 = 10'

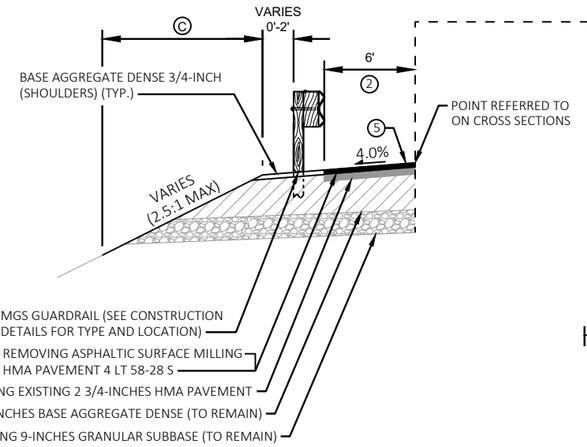
④ ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL REQ'D

⑤ ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL REQ'D

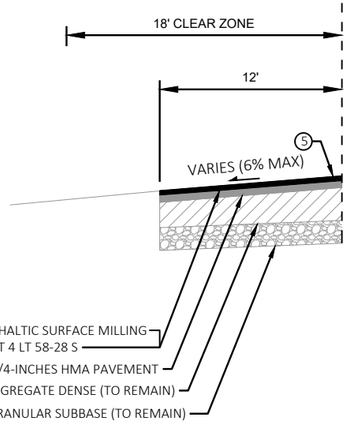
Ⓐ TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B

Ⓑ TOPSOIL, SEEDING MIXTURE NO. 40, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B

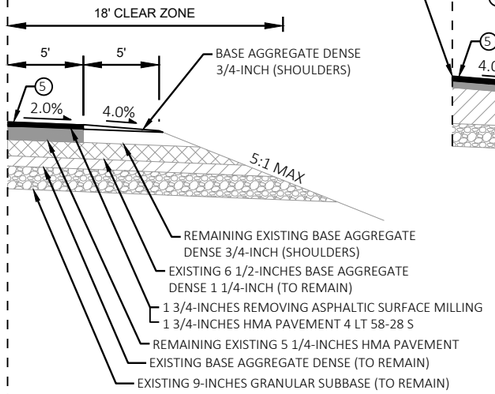
Ⓒ TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE B, & FERTILIZER TYPE B



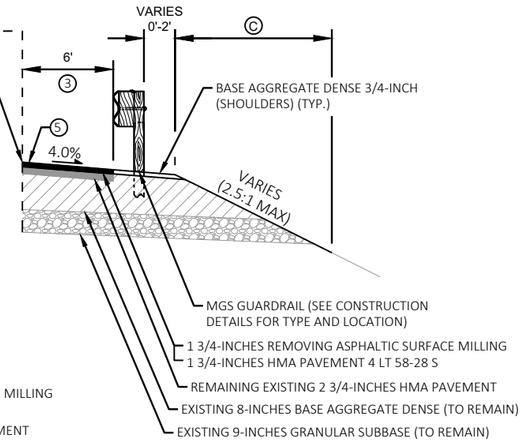
STA. 305+35.35 TO STA. 310+91.56
STA. 361+77.39 TO STA. 364+96.09
STA. 384+06.55 TO STA. 393+26.16
STA. 400+87.73 TO STA. 411+06.40



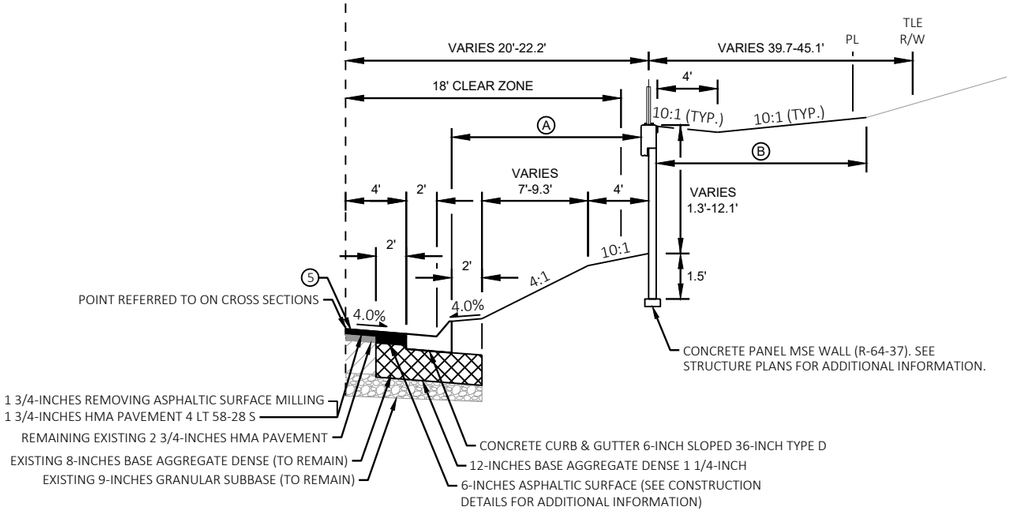
STA. 238+63.00 TO STA. 240+13.00



STA. 238+63.00 TO STA. 240+13.00



STA. 361+36.58 TO STA. 366+05.31
STA. 383+82.07 TO STA. 390+88.37
STA. 402+81.21 TO STA. 409+62.44



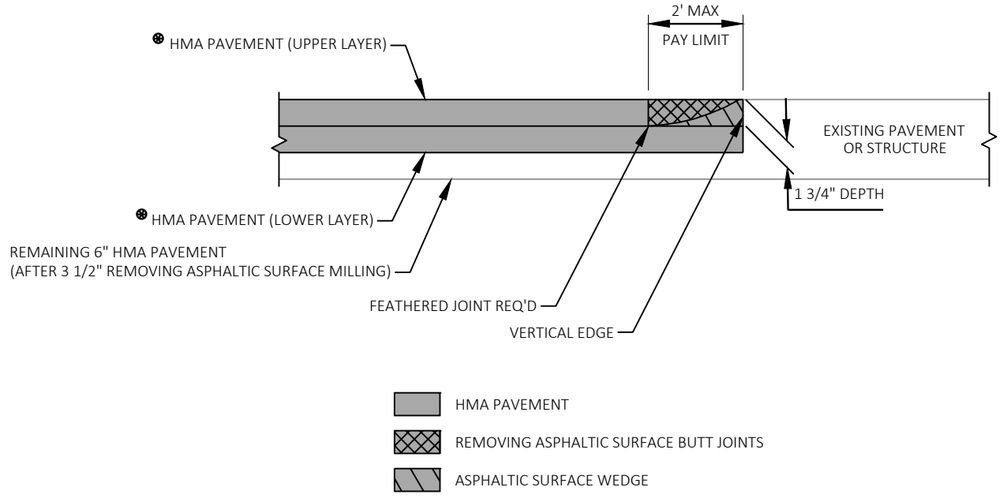
STA. 481+54.95 TO STA. 486+61.94

PROPOSED TYPICAL SECTION - STH 120

STA. 238+63.00 TO STA. 520+83.00

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TYPICAL SECTIONS	SHEET 9	E

NOT TO SCALE



SEE HMA PAVEMENT SUMMARY TABLE ON GENERAL NOTES PLAN SHEET FOR PAVEMENT TYPE AND LAYER THICKNESS.

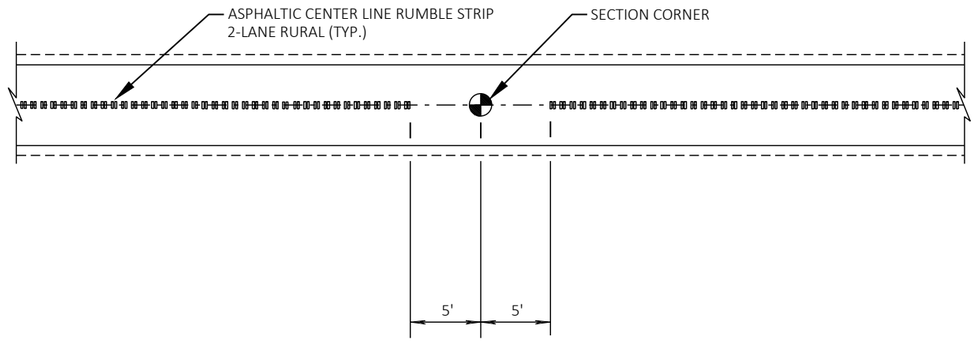
NOTE:

REMOVE ASPHALTIC SURFACE WEDGE PRIOR TO PAVING UPPER PAVEMENT LAYER TO CREATE A VERTICAL FACE AT BUTT JOINT. PAID FOR UNDER REMOVING ASPHALTIC SURFACE BUTT JOINTS.

TRANSITION PAVEMENT CROSS SLOPE TO MATCH EXISTING CROSS SLOPE.

REMOVING ASPHALTIC SURFACE BUTT JOINTS DETAIL (NO PROFILE CHANGE)

STA. 47+98
STH 36
STH 11
STRUCTURE B-64-0080
CTH D
STA. 520+83



ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL AT SECTION CORNER LOCATIONS

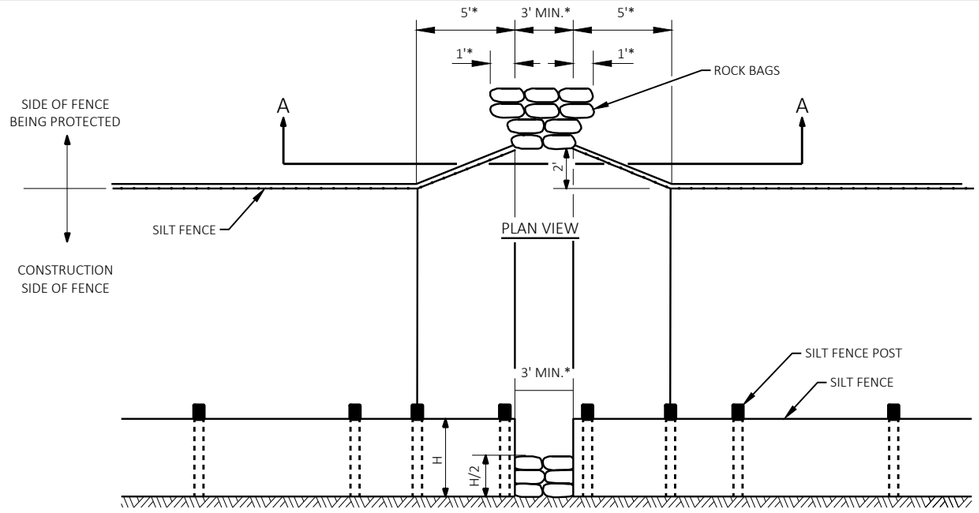
REFER TO PLAN SHEETS FOR SECTION CORNER MONUMENT LOCATIONS

NOT TO SCALE

RUNOFF COEFFICIENT TABLE

	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 = 41.0 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 1.7 ACRES



SECTION A-A (ELEVATION VIEW)

NOTE:

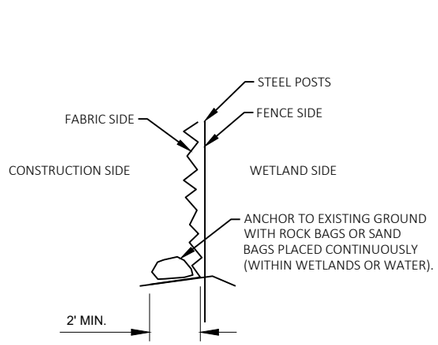
* = DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY ENGINEER

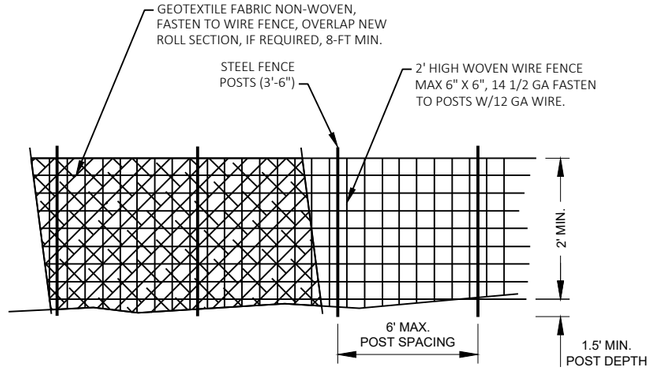
H = HEIGHT OF SILT FENCE

SILT FENCE DRAINAGE RELIEF DETAIL

SEE EROSION CONTROL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS

NOT TO SCALE

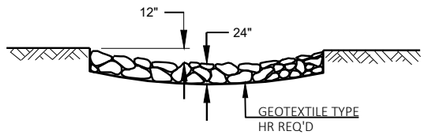




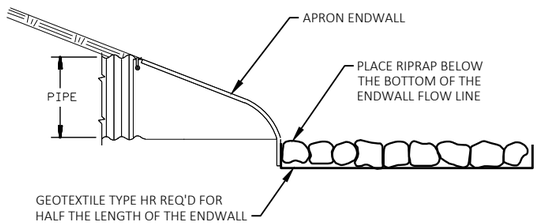
SILT FENCE HEAVY DUTY

NOTES: ANCHOR GEOTEXTILE FABRIC A MINIMUM OF 6" BELOW GRADE. TRENCH, ANCHOR AND BACKFILL SIMILAR TO REGULAR SILT FENCE INSTALLATION OUTSIDE OF WETLANDS OR WHEN THE GROUND IS DRY ENOUGH FOR TRENCHING. THE CONTRACTOR SHALL NOT BE REQUIRED TO TRENCH IF THE HDSF IS WITHIN STANDING WATER AT THE TIME OF INSTALLATION.

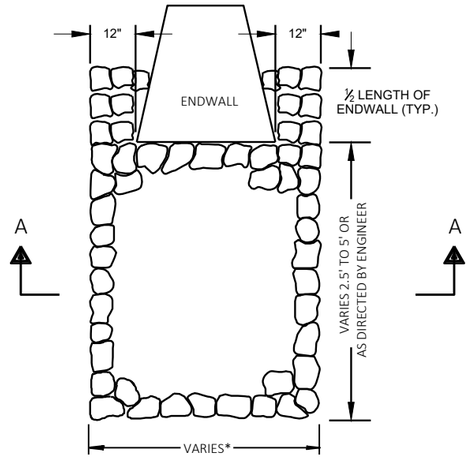
ANCHOR MATERIAL INCIDENTAL TO SILT FENCE HEAVY DUTY.



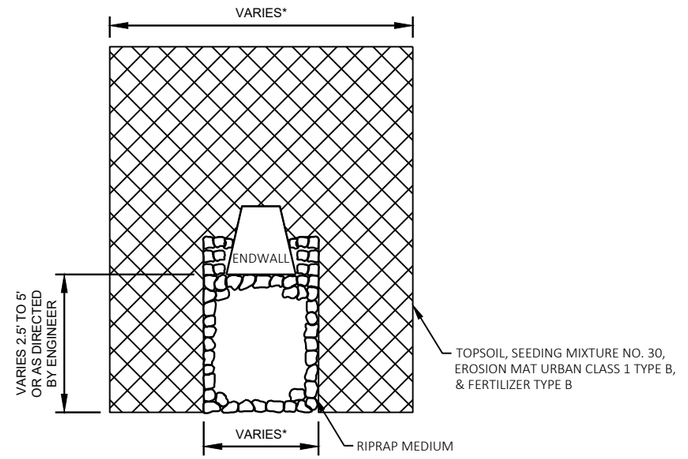
SECTION A-A



SIDE VIEW



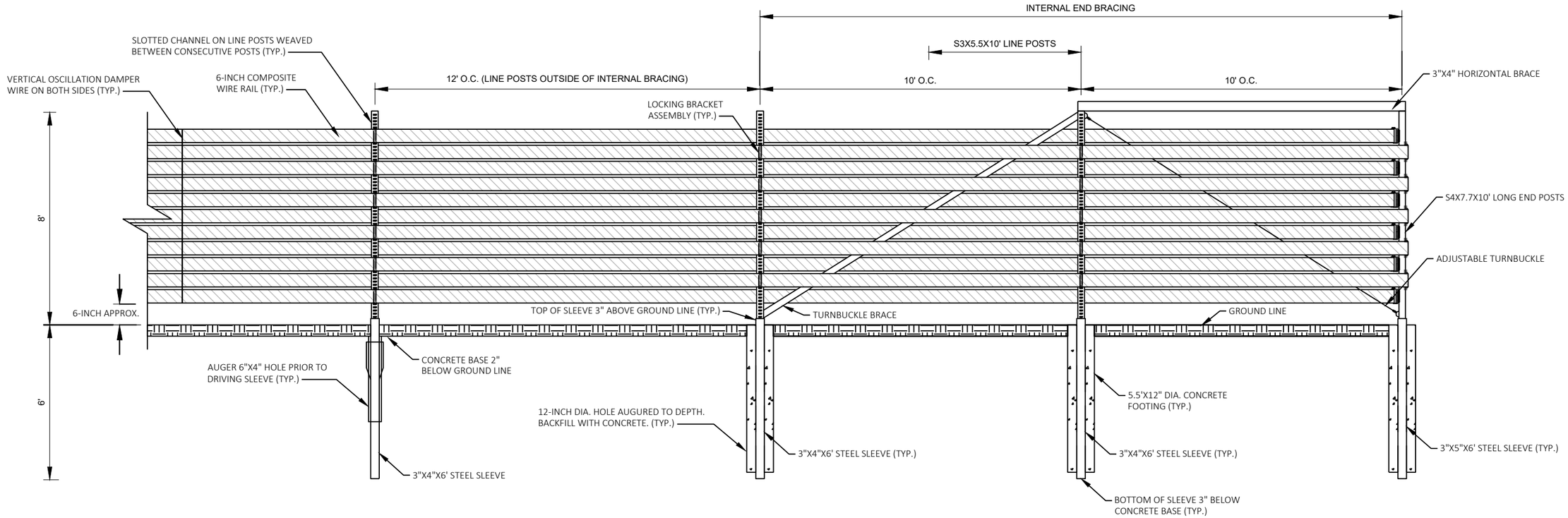
* SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.



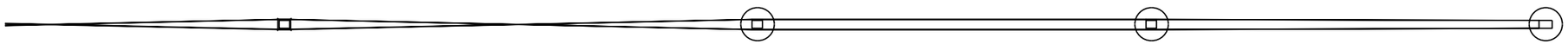
EROSION CONTROL AND RIPRAP MEDIUM TREATMENT AT APRON ENDWALL REPLACEMENT LOCATIONS

STA. 94+79 LT
STA. 111+78 LT

NOT TO SCALE



FRONT VIEW



PLAN VIEW

NOTES:
DETAILS PROVIDED FOR INFORMATION ONLY. INSTALL SNOW FENCE AND ANCHOR IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

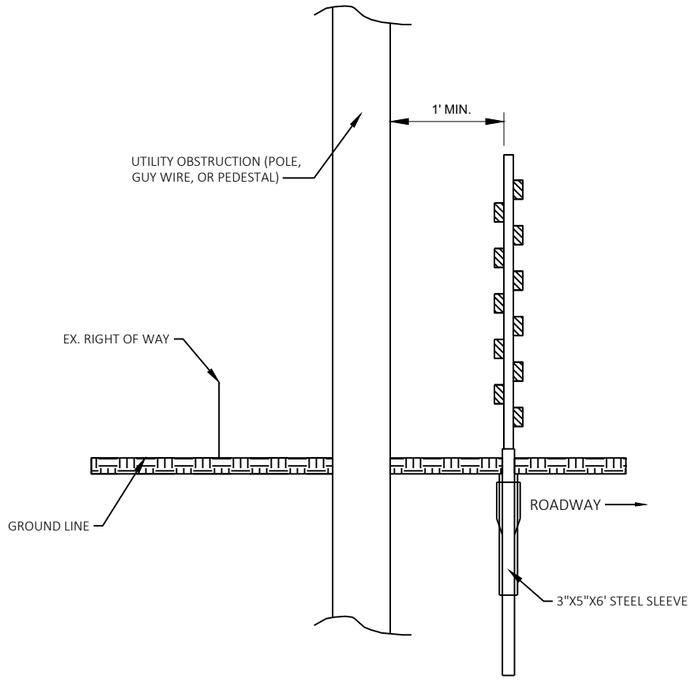
FENCE SHALL BE CONSTRUCTED WITH 20% POROSITY.

STATION AND OFFSET PROVIDED IN PLAN IS AT INDIVIDUAL END POSTS.

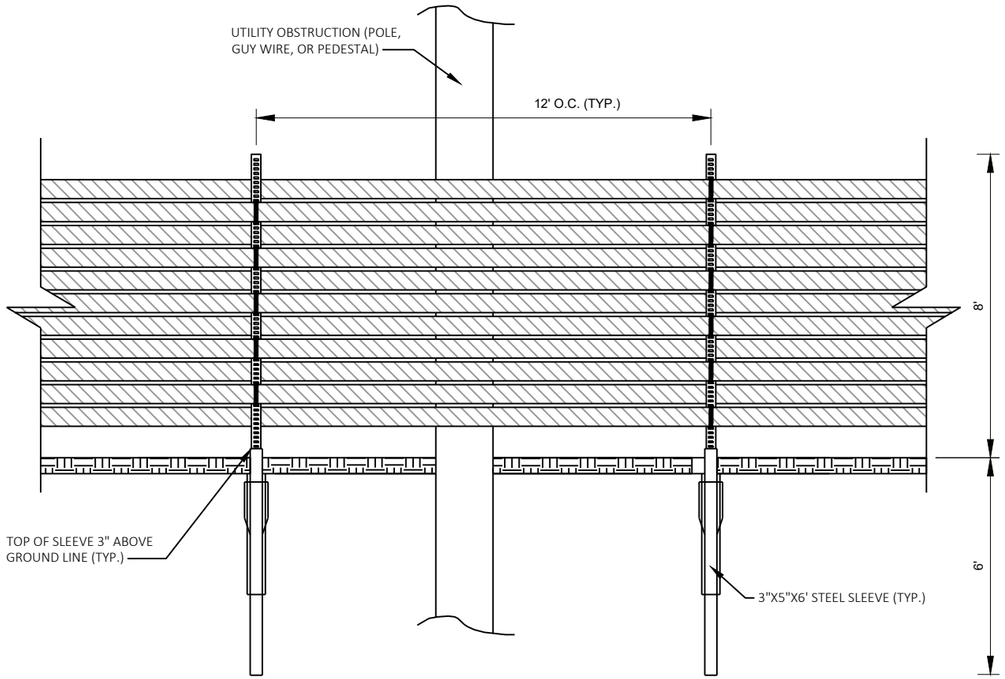
MAINTAIN A MINIMUM 5-FT OFFSET BETWEEN POSTS AND UTILITY INSTALLATIONS.

FLEXIBLE COMPOSITE RAIL SNOW FENCE (TYP.) AND INTERNAL BRACING END ANCHOR

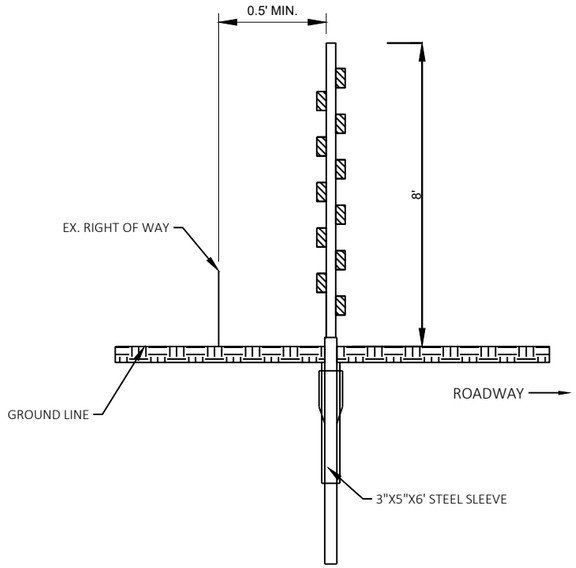
NOT TO SCALE



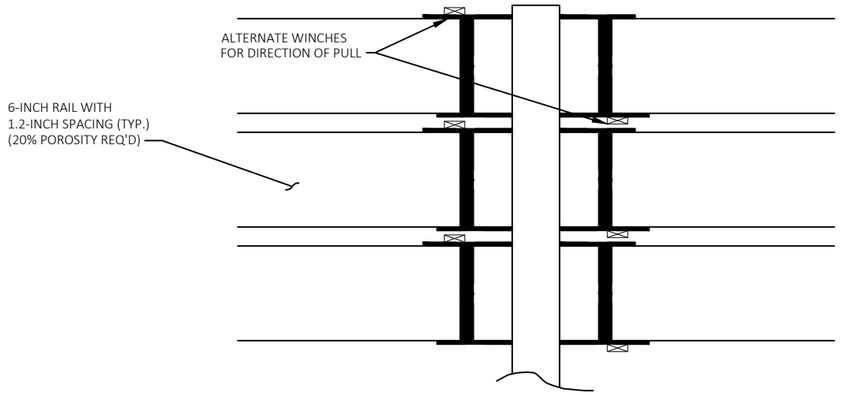
SIDE VIEW



FRONT VIEW



FLEXIBLE COMPOSITE RAIL SNOW FENCE RIGHT OF WAY OFFSET

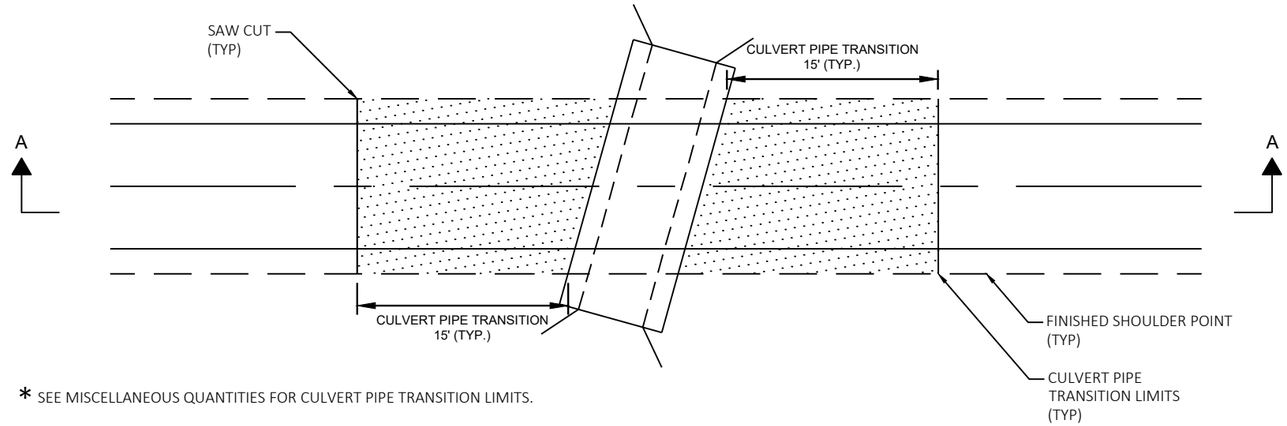


FLEXIBLE COMPOSITE RAIL SNOW FENCE WINCH LAYOUT

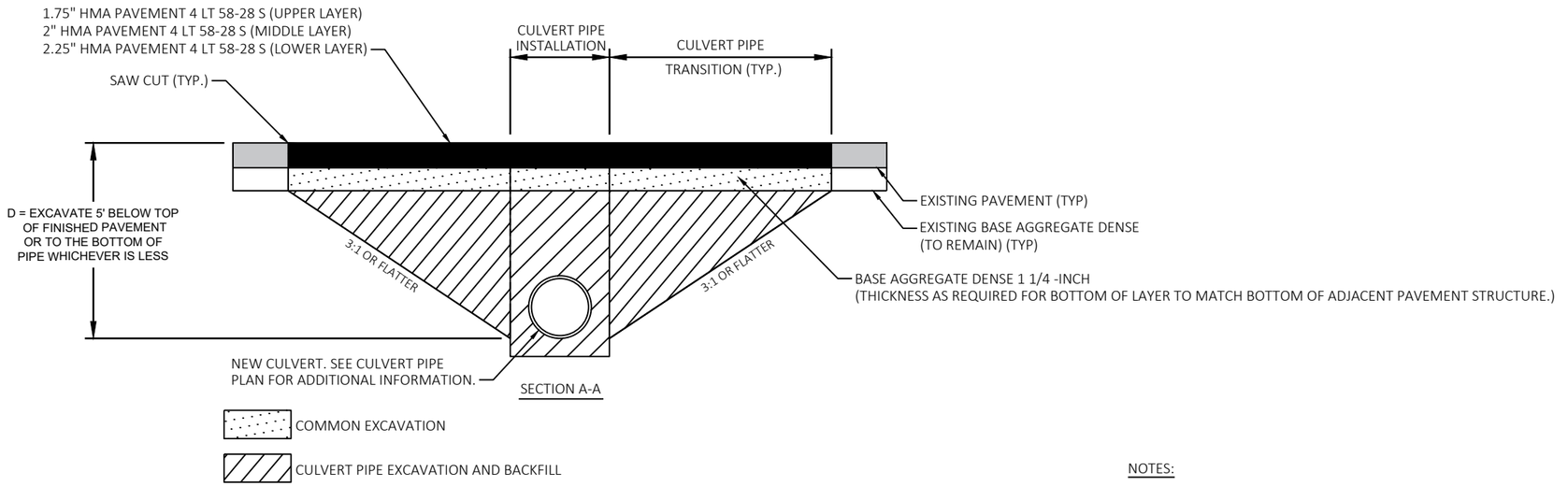
FLEXIBLE COMPOSITE RAIL SNOW FENCE PLACEMENT NEAR UTILITY OBSTRUCTION

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CONSTRUCTION DETAILS	SHEET 14	E

NOT TO SCALE



* SEE MISCELLANEOUS QUANTITIES FOR CULVERT PIPE TRANSITION LIMITS.



NOTES:

PIPE INSTALLATION AREA WILL FOLLOW STANDARD SPEC 520 FOR INSTALLATION, WIDTHS, AND PAYMENT.

CONSTRUCT TRANSITION PERPENDICULAR TO CULVERT PIPE.

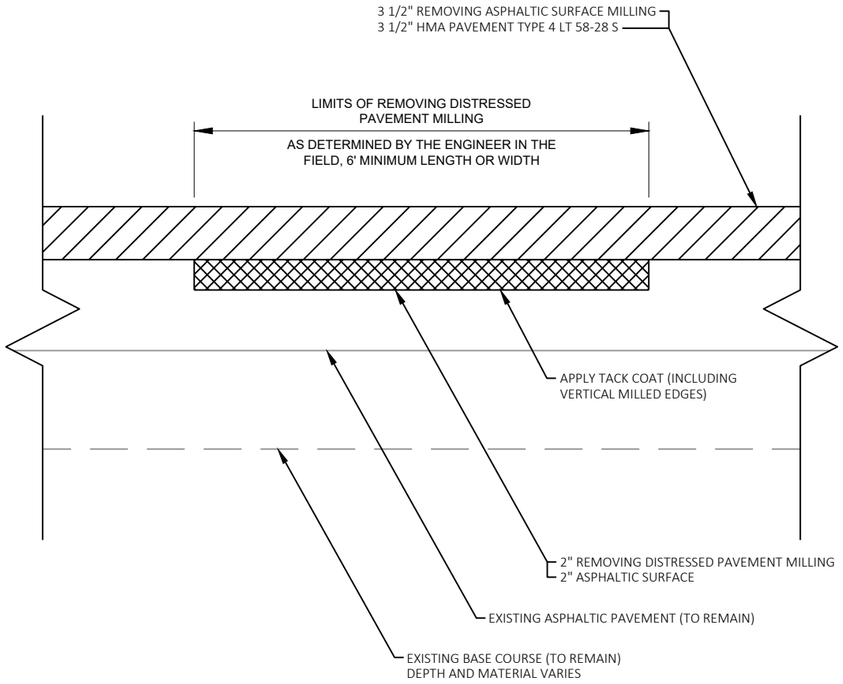
CULVERT PIPE EXCAVATION AND BACKFILL WITHIN THE CULVERT PIPE INSTALLATION AND TRANSITION AREAS IS INCLUDED IN THE COST OF CULVERT PIPE.

PAVEMENT SAW CUT TO BE PERPENDICULAR TO ROADWAY ALIGNMENT.

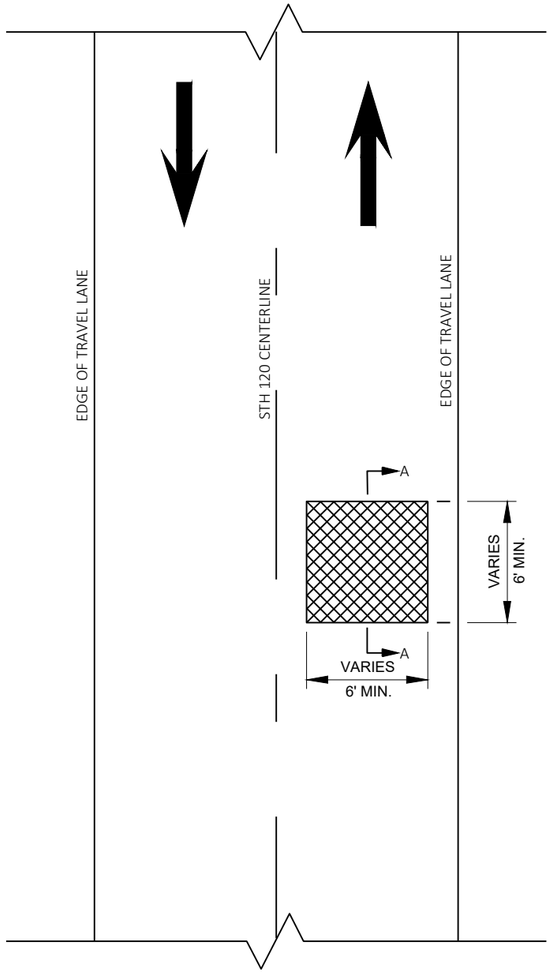
CULVERT REPLACEMENTS WITH TRANSITION

STA. 94+78
STA. 111+75

NOT TO SCALE



SECTION A -A



PLAN VIEW

NOTES:

EXACT LOCATION AND LIMITS OF REMOVING DISTRESSED PAVEMENT MILLING TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

COMPLETE 3 1/2" REMOVING ASPHALTIC SURFACE MILLING PRIOR TO REMOVING DISTRESSED PAVEMENT.

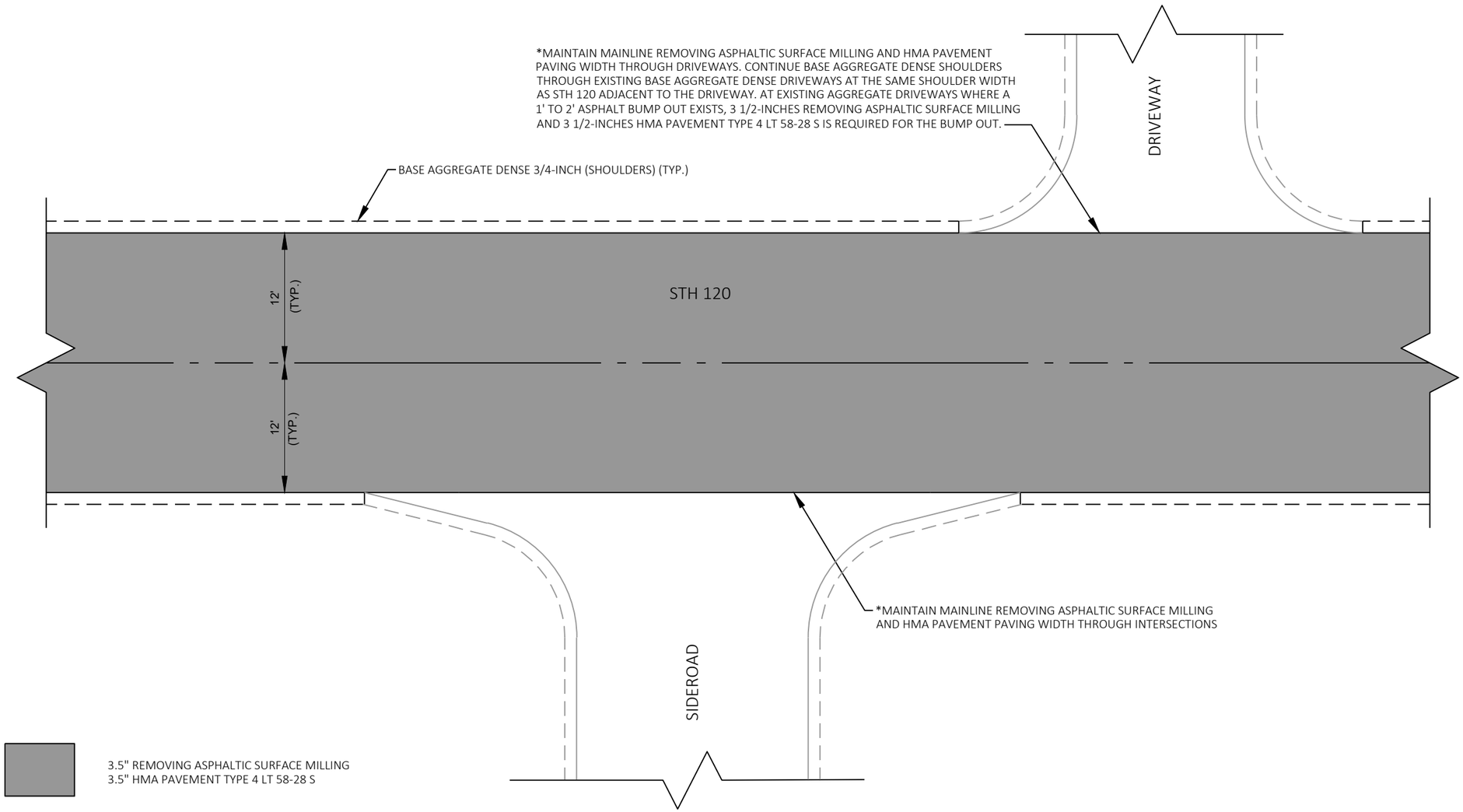
PLACE ASPHALTIC SURFACE USING ENGINEER-APPROVED MACHINE METHODS AS DESCRIBED IN STANDARD SPEC 465.3.

COMPACT USING ORDINARY COMPACTION PROCEDURE DESCRIBED IN STANDARD SPEC 450.3.2.6.

LIMITS OF DISTRESSED PAVEMENT MILLING TO BE REMOVED AND PAVED IN THE SAME DAY.

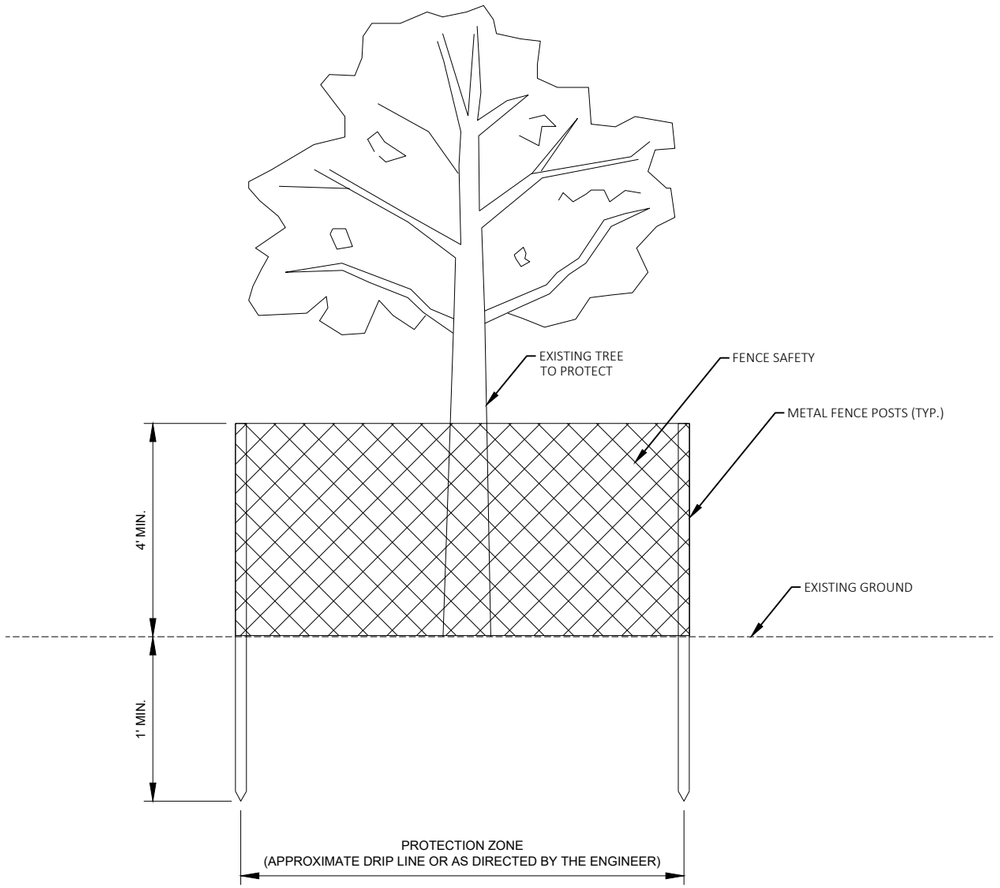
REMOVING DISTRESSED PAVEMENT MILLING

NOT TO SCALE



DETAIL OF REMOVING ASPHALTIC SURFACE MILLING AND HMA PAVEMENT AT INTERSECTIONS AND DRIVEWAYS

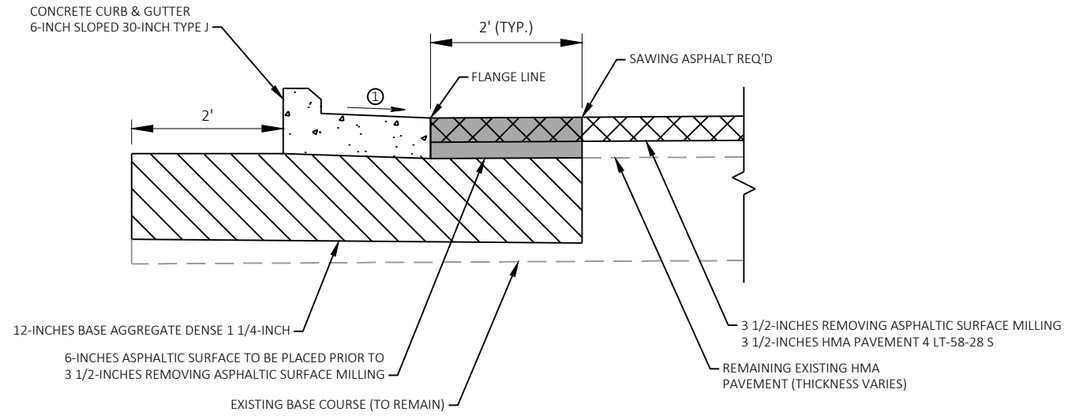
NOT TO SCALE



TREE PROTECTION DETAIL

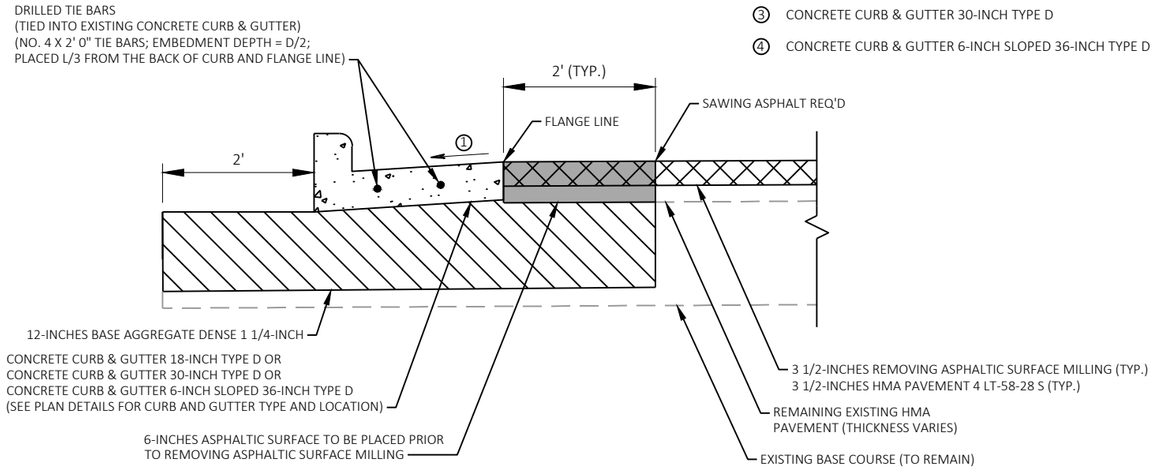
2

① MATCH EXISTING PAVEMENT SLOPE



CTH D MEDIAN ISLAND CONCRETE CURB & GUTTER REPLACEMENT

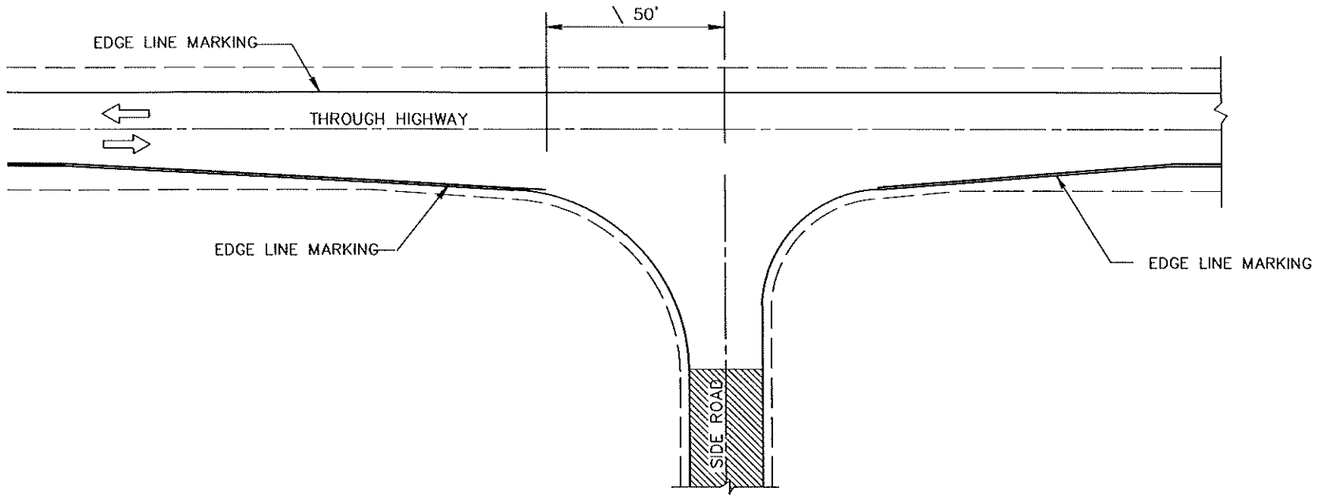
① MATCH EXISTING GUTTER SLOPE
② CONCRETE CURB & GUTTER 18-INCH TYPE D
③ CONCRETE CURB & GUTTER 30-INCH TYPE D
④ CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



CONCRETE CURB & GUTTER REPLACEMENT

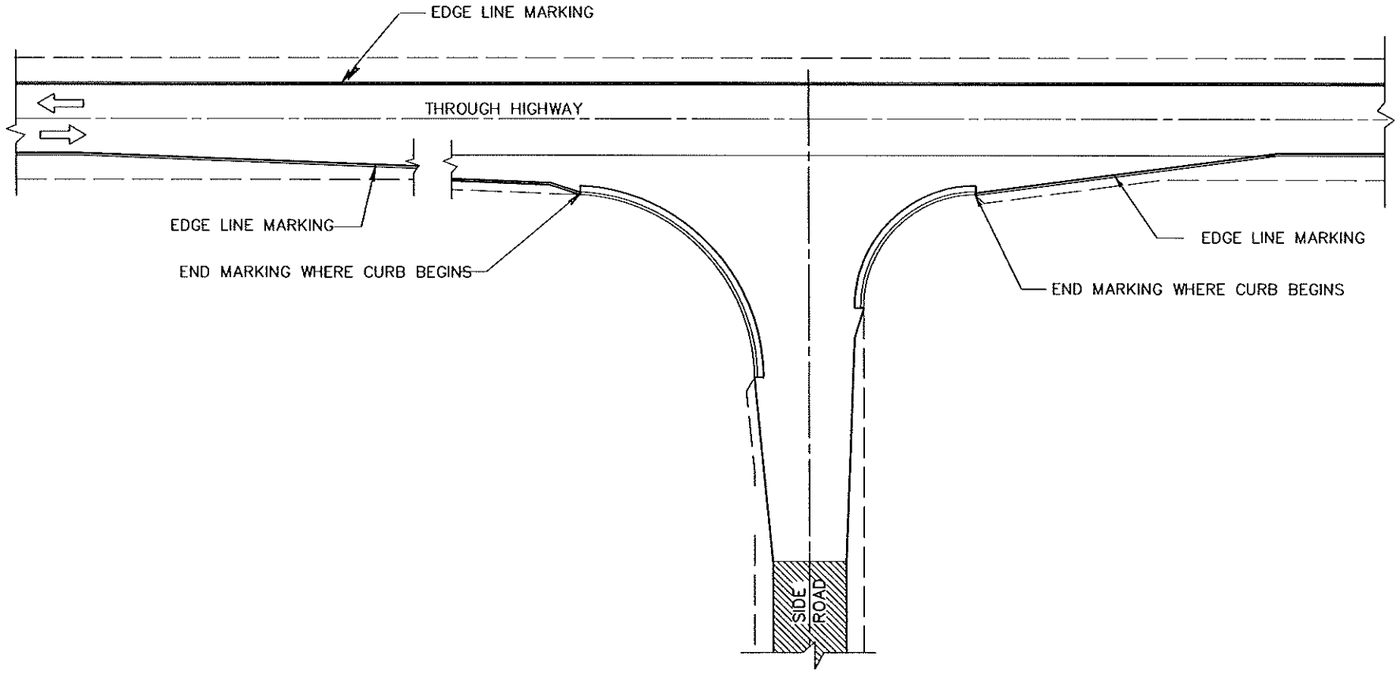
STA. 48+74 TO STA. 48+60 LT ①④
STA. 49+00 TO STA. 49+29 RT ①③
STA. 49+01 TO STA. 49+39 LT ①③
STA. 49+39 TO STA. 51+32 LT ②
STA. 49+59 TO STA. 53+10 RT ②
STA. 481+42 TO STA. 486+75 RT ④

2



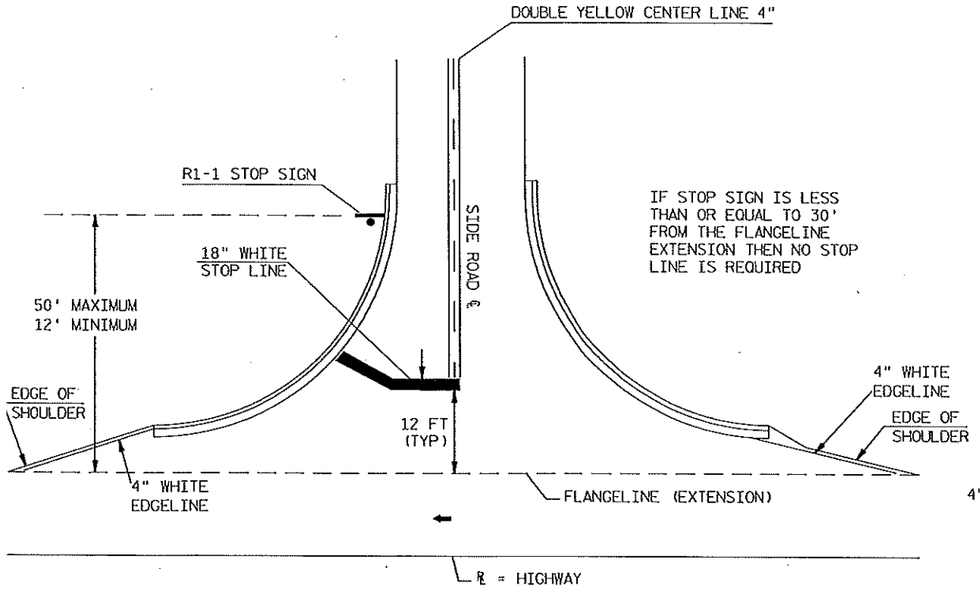
MINOR INTERSECTION WITHOUT CURBS

(TYPICAL MARKING)

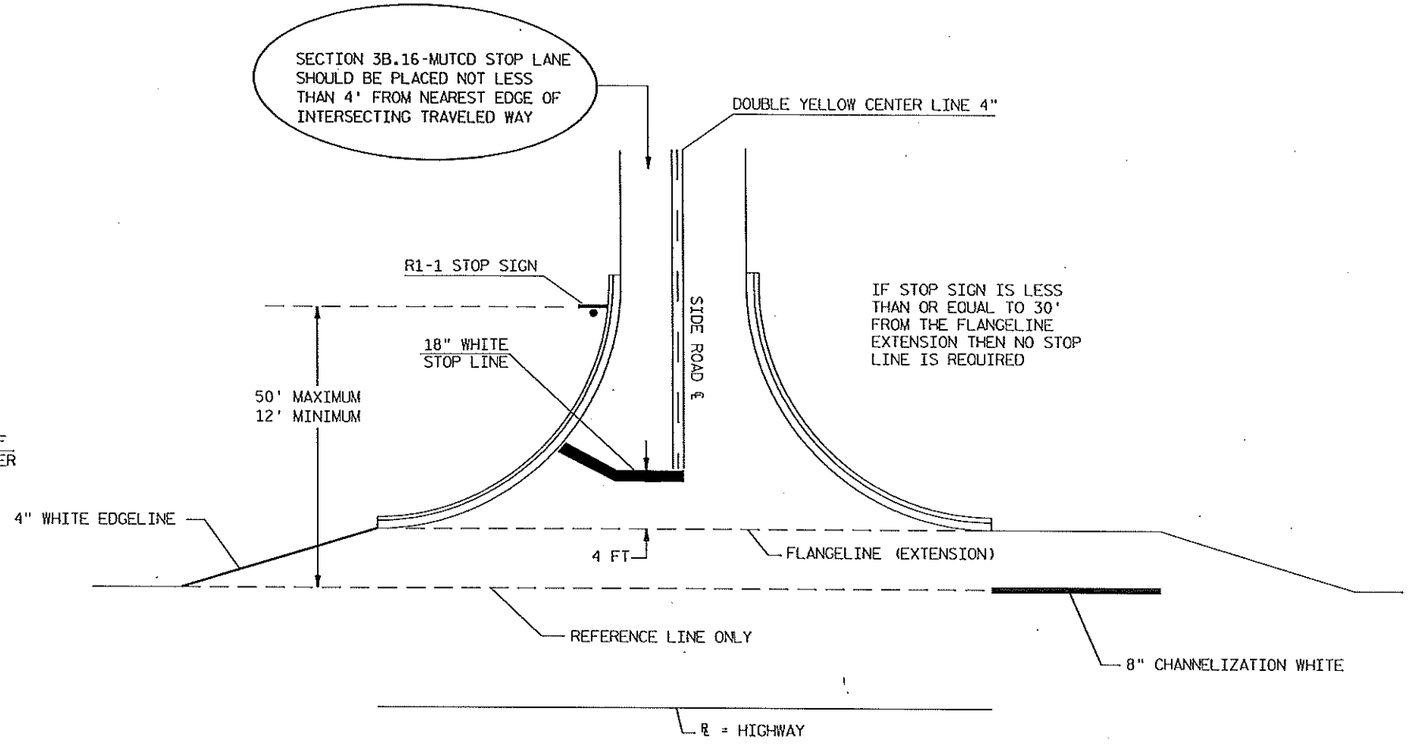


MINOR INTERSECTION WITH CURBS

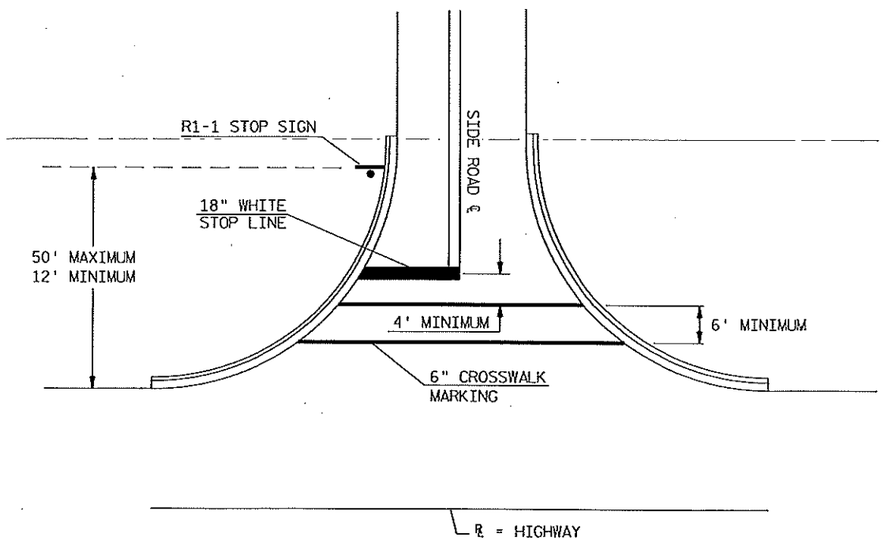
(TYPICAL MARKING)



TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



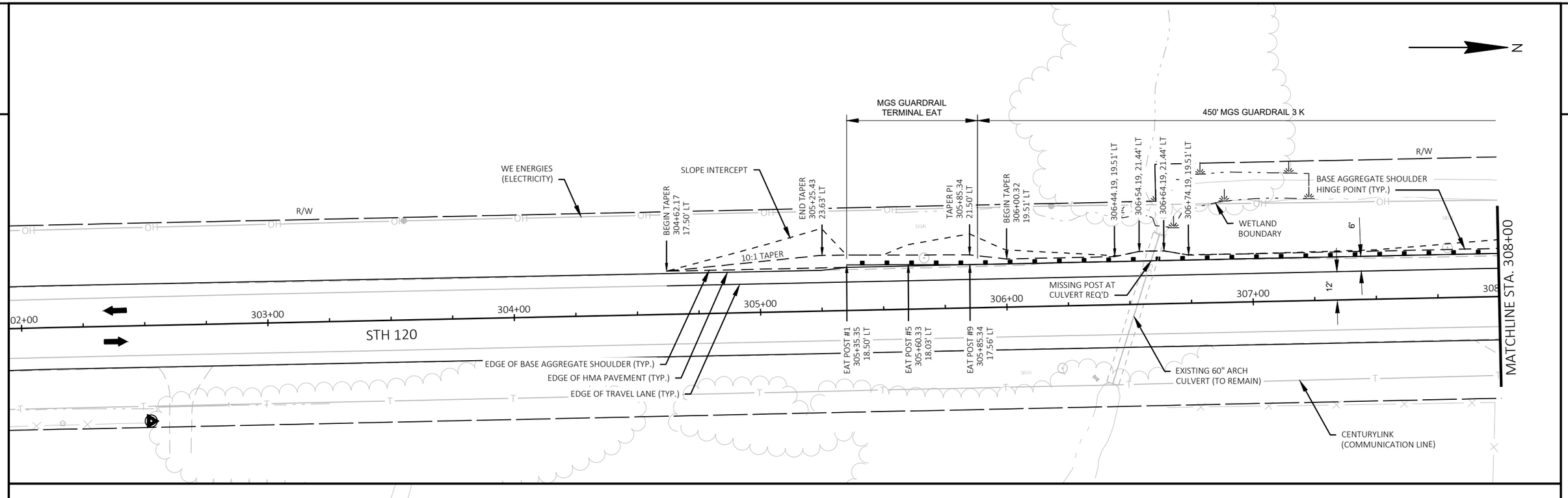
TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

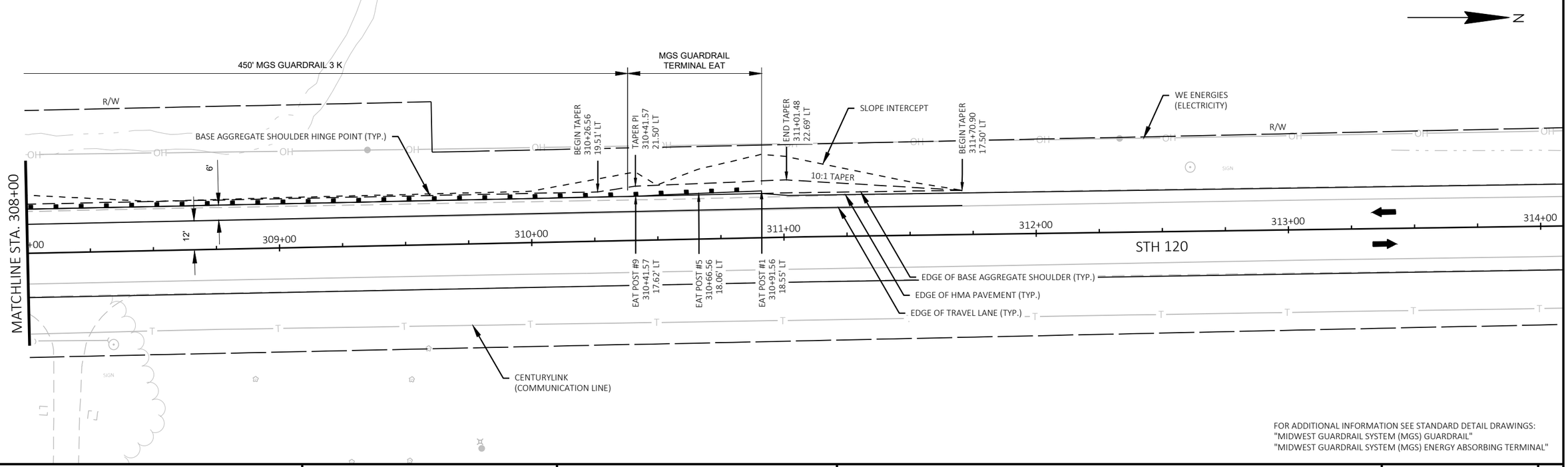
NOTES:

18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

STOP LINES REQUIRED WHERE:

- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
- LARGE RADII
- OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.



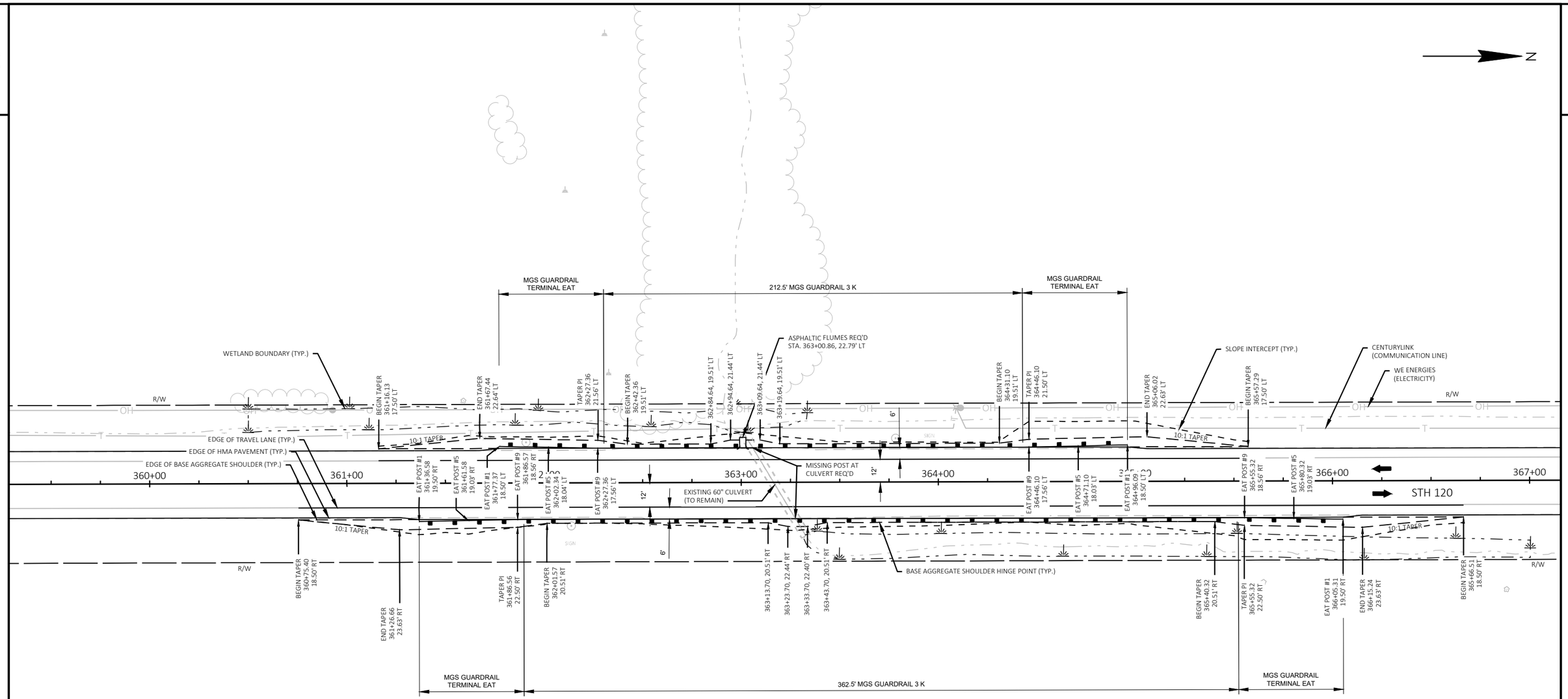


FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWINGS:
"MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL"
"MIDWEST GUARDRAIL SYSTEM (MGS) ENERGY ABSORBING TERMINAL"

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	GUARDRAIL LAYOUT DETAILS	SHEET 21	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021002_CD.DWG
LAYOUT NAME - 021021-cd
PLOT DATE : 11/28/2022 5:00 PM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : 1IN : 40FT
WISDOT/CADDS SHEET 44

2

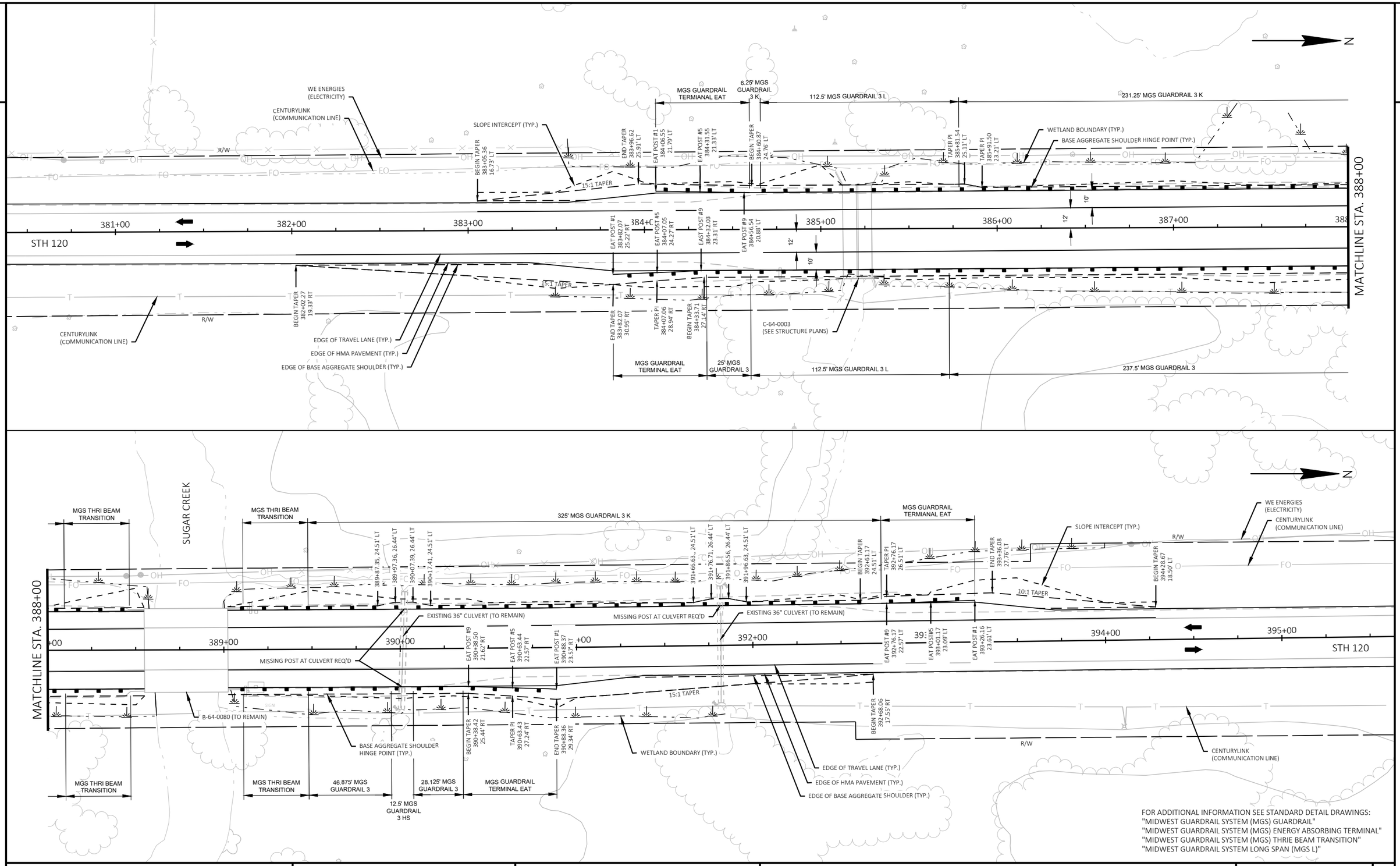


FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWINGS:
"MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL"
"MIDWEST GUARDRAIL SYSTEM (MGS) ENERGY ABSORBING TERMINAL"

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	GUARDRAIL LAYOUT DETAILS	SHEET 22	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021002_CD.DWG
LAYOUT NAME - 021022-cd

PLOT DATE : 11/28/2022 5:01 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ##########

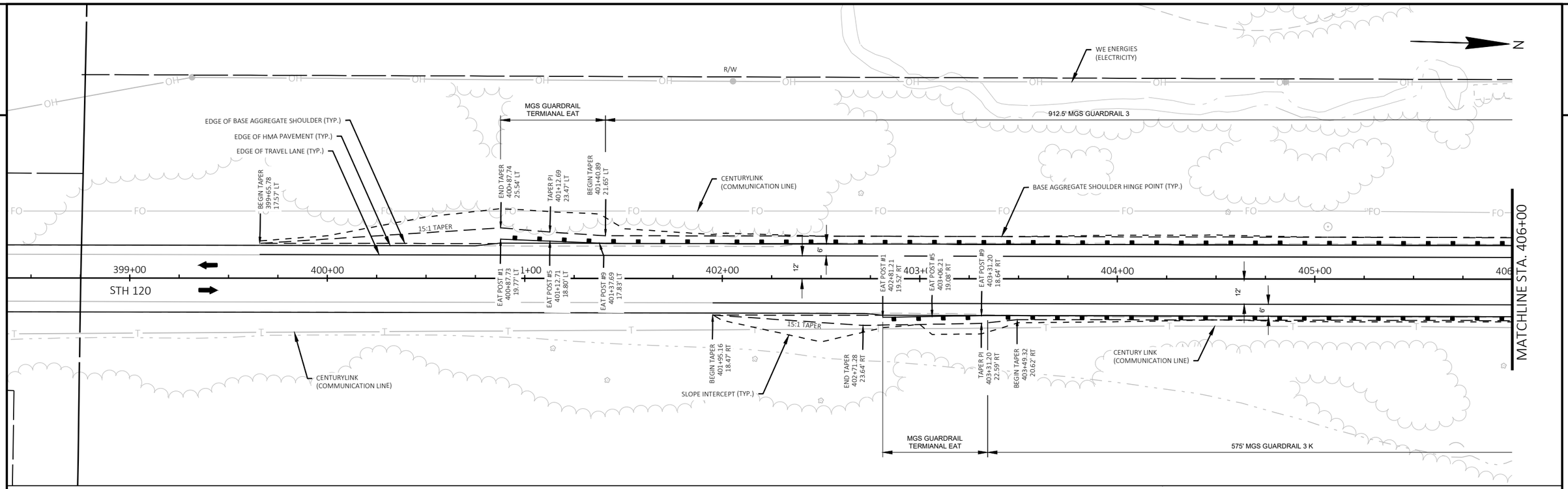


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	GUARDRAIL LAYOUT DETAILS	SHEET 23	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021002_CD.DWG
LAYOUT NAME - 021023-cd

PLOT DATE : 11/28/2022 5:01 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42



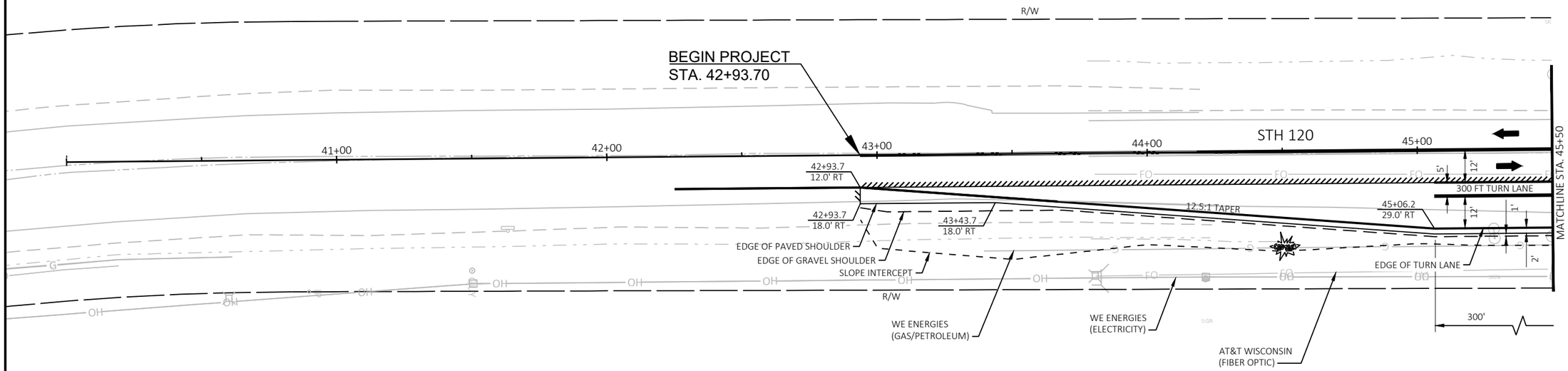
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	GUARDRAIL LAYOUT DETAILS	SHEET 24	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021002_CD.DWG
LAYOUT NAME - 021024-cd

PLOT DATE : 11/28/2022 5:01 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N



LEGEND

SAWING ASPHALT

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	INTERSECTION DETAILS	SHEET 25	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-id

PLOT DATE : 1/5/2023 3:57 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ###########

2

2

BEGIN CONSTRUCTION
STA. 12+37.86 A

N

R/W

MATCHLINE STA. 45+50

STH 120

46+00

47+00

BEGIN RESURFACING
STA. 47+97.53

48+00

49+00

13+00 A

50+00

51+00

5'

12'

1'

12'

2'

EDGE OF TURN LANE

300 FT TURN LANE

EDGE OF PAVED SHOULDER

EDGE OF GRAVEL SHOULDER (TYP.)

R/W

300'

48+06.1
29.0' RT
ELEV. 847.29

SLOPE INTERCEPT (TYP.)

12%

R50'

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

STA. 48+06.20, 79.00' RT
STA. 13+76.74, 73.50' RT

13+76.7 A
26.5' RT

13+76.7 A
23.5' RT
ELEV. 848.21

7:1 TAPER

3'

AT&T WISCONSIN
(FIBER OPTIC)

WE ENERGIES
(GAS/PETROLEUM)

WETLAND BOUNDARY

WE ENERGIES
(ELECTRICITY)

100'

14+42.3 A
17.0' RT

14+76.7 A
12.0' RT

15+59.0 A
12.0' RT

14+00 A

15+00 A

6+00 A

STH 36

12'

5'

3'

TLE

R/W

SEPC

SEPV

A/C

END CONSTRUCTION
STA. 15+59.00 A

LEGEND

SAWING ASPHALT

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	INTERSECTION DETAILS	SHEET 26	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021102-id

PLOT DATE : 1/5/2023 3:57 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

N

49+00.8
41.9' LT

48+60.1
41.7' LT

48+47.4
28.6' LT

CS-5

CG-36D

CG-30D

ADJUSTING INLET
COVERS REQ'D

CAUTION

R/W

TLE

WE ENERGIES
(ELECTRICITY)

SLOPE INTERCEPT (TYP.)

49+34.3
13.0' LT

49+38.8
14.0' LT

CG-18D

51+31.6
13.0' LT

MATCHLINE STA. 51+50

49+00

50+00

51+00

13+00

STH 120

49+68.4
14.0' RT

49+59.0
14.0' RT

49+28.6
18.5' RT

CG-18D

CS-5

51+33.0
20.5' RT

51+37.0
20.5' RT

PROTECT EXISTING CONCRETE
STEPS (TO REMAIN)

WE ENERGIES
(GAS/PETROLEUM)

STH 36

CG-30D

CS-5

48+99.8
45.3' RT

TLE

R/W

AT&T WISCONSIN
(FIBER OPTIC)

LEGEND

CG-18D	CONCRETE CURB & GUTTER 18-INCH TYPE D
CG-30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
CG-36D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
////	SAWING ASPHALT
xxxxxx	SAWING CONCRETE
X	GRUBBING

N

R/W

FLAG

WE ENERGIES
(ELECTRICITY)

MATCHLINE STA. 51+50

52+00

53+00

54+00

STH 120

AT&T WISCONSIN
(FIBER OPTIC)

CG-18D

53+10.2
13.0' RT

SLOPE INTERCEPT (TYP.)

CD-6

WE ENERGIES
(GAS/PETROLEUM)

AT&T WISCONSIN
(FIBER OPTIC)

52+77.8
26.8' RT

52+97.6
27.2' RT

ASPH

CS-5

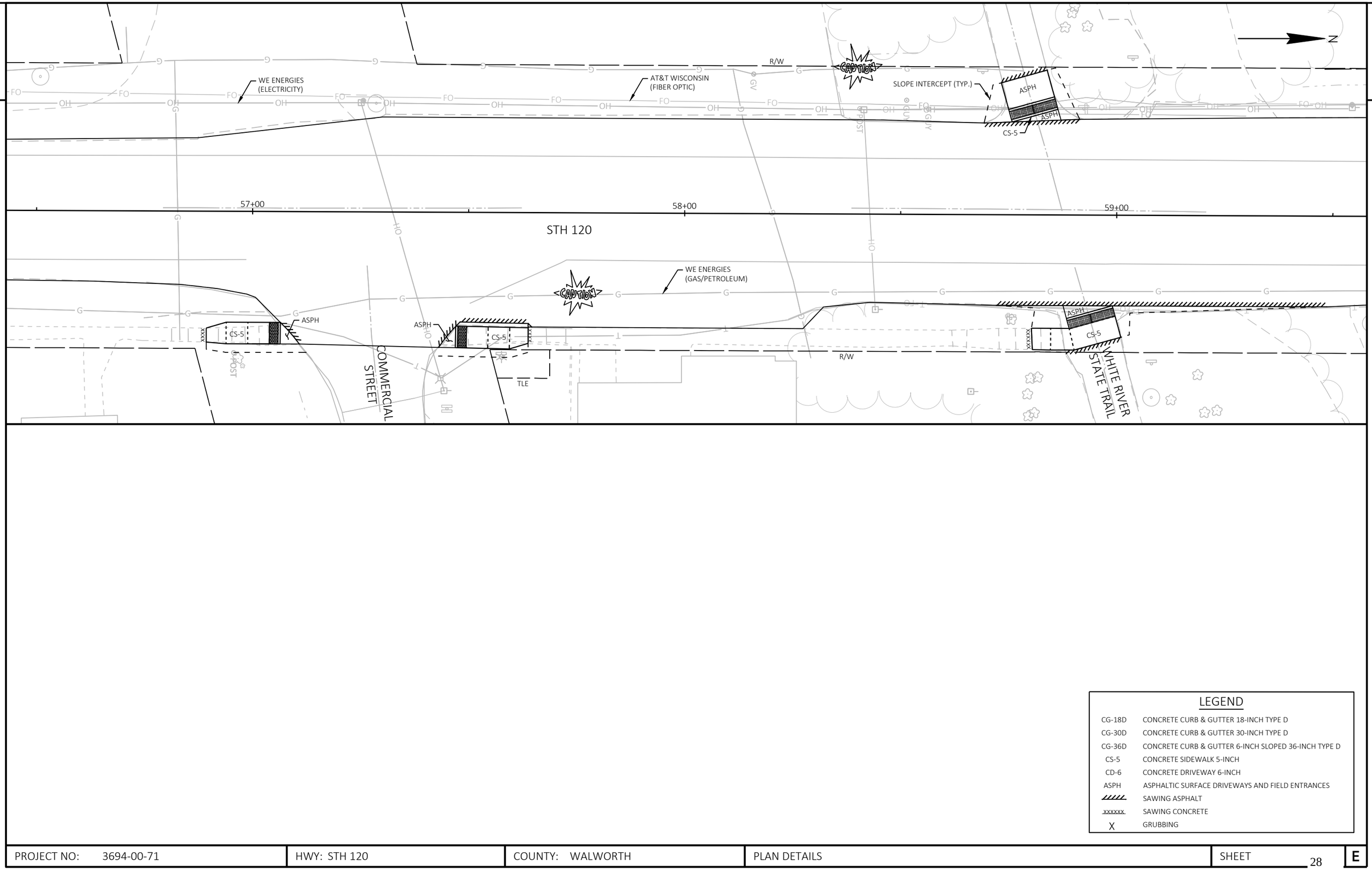
HUDSON
STREET

TLE

R/W

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN DETAILS	SHEET 27	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-pd
PLOT DATE : 1/5/2023 4:04 PM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44



LEGEND

CG-18D	CONCRETE CURB & GUTTER 18-INCH TYPE D
CG-30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
CG-36D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
//////	SAWING ASPHALT
xxxxxx	SAWING CONCRETE
X	GRUBBING

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN DETAILS	SHEET 28	E

2

2

390+68.0 B
24.3' RT

390+73.8 B
18.9' RT

STH 11

5'

391+05.5 B
19.7' RT

391+00 B

391+05.6 B
19.6' LT

391+34.7 B
24.3' RT

391+32.7 B
19.2' RT

R/W
(APPROXIMATE)

R8'

391+37.5 B
19.5' LT

WE ENERGIES
(ELECTRICITY)

R/W
(APPROXIMATE)

240+24.0
26.9' LT

240+26.9
24.4' LT

EMULSIFIED ASPHALT
SHOULDER AND FORESLOPE
(PAID FOR AS GUARDRAIL MOW
STRIP EMULSIFIED ASPHALT)

N

240+00

241+00

242+00

STH 120

240+07.7
17.2' RT

R/W
(APPROXIMATE)

R32'

392+00 B

240+39.7
47.2' RT

240+77.6
47.8' RT

R/W
(APPROXIMATE)

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN DETAILS	SHEET 29	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021203-pd

PLOT DATE : 1/5/2023 4:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

N

439+00

440+00

441+00

STH 120

CTH D

440+10.6
61.3' LT
SN (R=2')
440+07.5
55.0' LT
440+15.6
57.8' LT
440+10.8
52.7' LT
ASPHALTIC SURFACE (TYP.)
SEE CONSTRUCTION DETAILS FOR
ADDITIONAL INFORMATION.
439+81.3
29.0' LT
439+76.2
20.5' LT
CS-5
CG-30J
439+64.3
17.1' LT
SN (R=2.5')
439+92.2
18.2' LT
439+94.1
19.5' LT
SN (R=2.5')
439+64.8
11.5' LT
439+78.4
16.4' LT
439+92.3
11.5' LT

439+52.3
18.3' RT
439+50.0
16.5' RT
SN (R=1.5')
439+69.4
14.8' RT
439+67.0
17.0' RT
SN (R=2.5')
439+72.4
19.1' RT
439+48.4
20.5' RT
439+51.3
20.8' RT
CS-5
439+69.4
20.6' RT
CG-30J
439+60.2
31.3' RT
439+60.2
34.4' RT
439+64.3
30.8' RT
439+65.0
33.8' RT
SN (R=2.5')

440+12.4
18.3' RT
SN (R=2.5')
440+09.6
16.3' RT
440+17.1
18.3' RT
440+19.8
16.3' RT
SN (R=2.5')
440+10.2
19.7' RT
CS-5
440+22.3
21.1' RT
CG-30J
440+19.1
22.2' RT
439+93.5
52.7' RT
439+90.1
55.2' RT
SN (R=2')
439+97.0
54.8' RT
439+96.5
59.0' RT

LEGEND

CG-30J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
SN	CONCRETE MEDIAN SLOPED NOSE
CS-5	CONCRETE SIDEWALK 5-INCH
	SAWING ASPHALT

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN DETAILS	SHEET 30	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021204-pd

PLOT DATE : 1/5/2023 4:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

N

SEPV

SEPV

R/W

OH

WE ENERGIES
(ELECTRICITY)

STH 120

481+00 | 482+00 | 483+00 | 484+00 | 485+00 | 486+00 | 487+00

481+41.7
14.8' RT

481+29.0
25.8' RT

481+55.0
16.8' RT

481+86.0
16.9' RT

482+55.6
17.0' RT

483+43.8
16.3' RT

CG-36D

484+46.9
15.0' RT

485+36.1
13.7' RT

486+15.1
13.2' RT

486+61.9
13.1' RT

486+75.1
11.1' RT

12'

2'

2'

FO

STA. 481+36.36
ASPHALTIC
FLUMES REQ'D

RETAINING WALL R-64-37.
SEE STRUCTURE PLANS FOR
ADDITIONAL INFORMATION.

EXISTING RETAINING WALL R-64-23 TO BE REMOVED.
SEE STRUCTURE PLANS FOR ADDITIONAL INFORMATION.

CENTURYLINK
(COMMUNICATION LINE)

STA. 486+80.58
ASPHALTIC
FLUMES REQ'D

SLOPE INTERCEPT

PL

TLE

R/W / TLE

PROTECT EXISTING
TREES TO REMAIN

PROTECT EXISTING
FENCE TO REMAIN

PROTECT EXISTING
TREE TO REMAIN

PROTECT EXISTING
TREES TO REMAIN

PROTECT EXISTING
TREES TO REMAIN

PROTECT EXISTING
BUSHES TO REMAIN

PROTECT EXISTING
TREE TO REMAIN

LEGEND

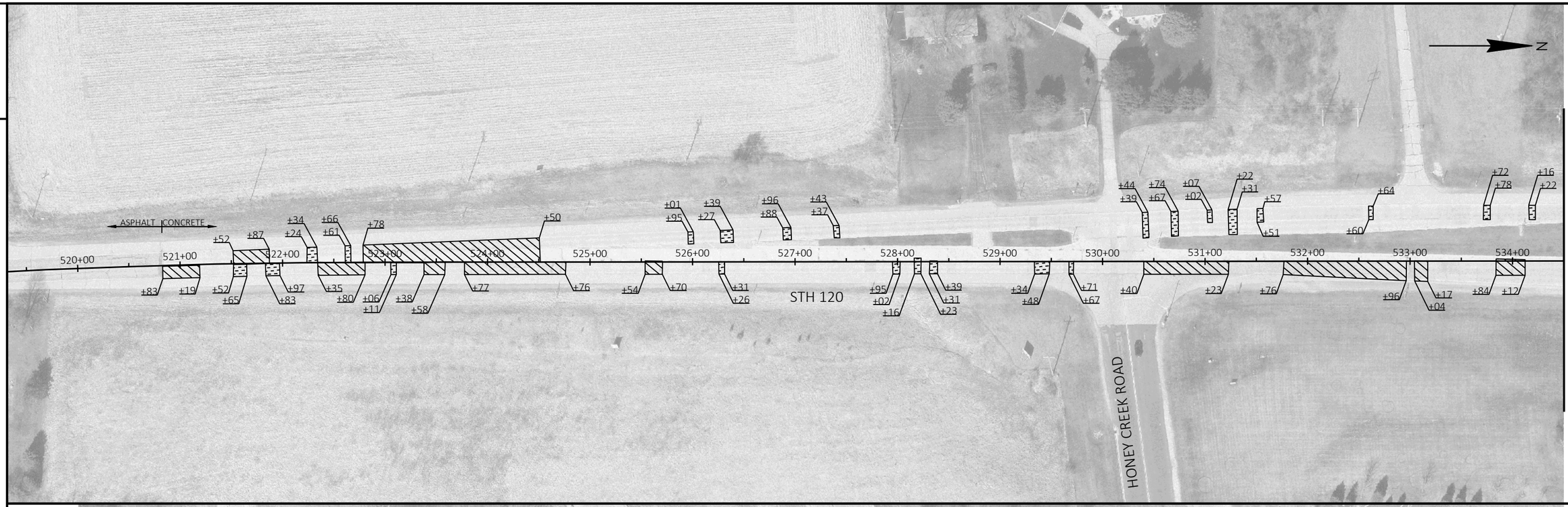
CG-18D	CONCRETE CURB & GUTTER 18-INCH TYPE D
CG-30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
CG-36D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	SAWING ASPHALT
xxxxxx	SAWING CONCRETE
X	GRUBBING
B	EXISTING BUSH
X"	EXISTING TREE X-INCH DIAMETER

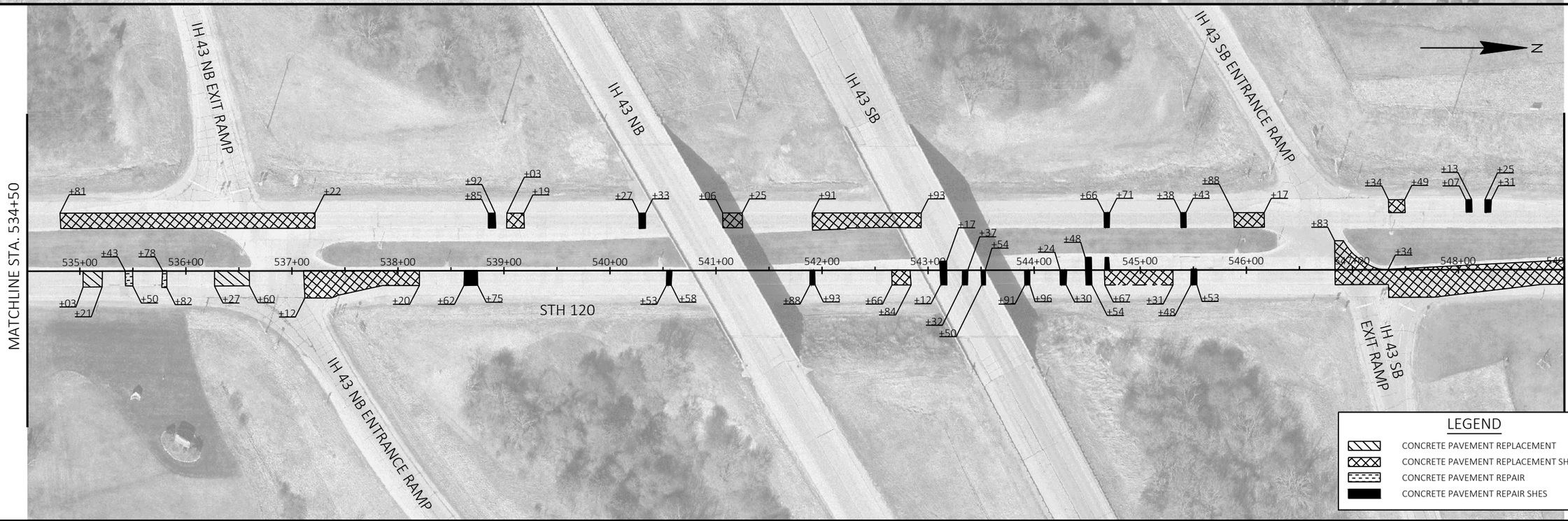
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN DETAILS	SHEET 31	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021205-pd

PLOT DATE : 1/5/2023 4:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

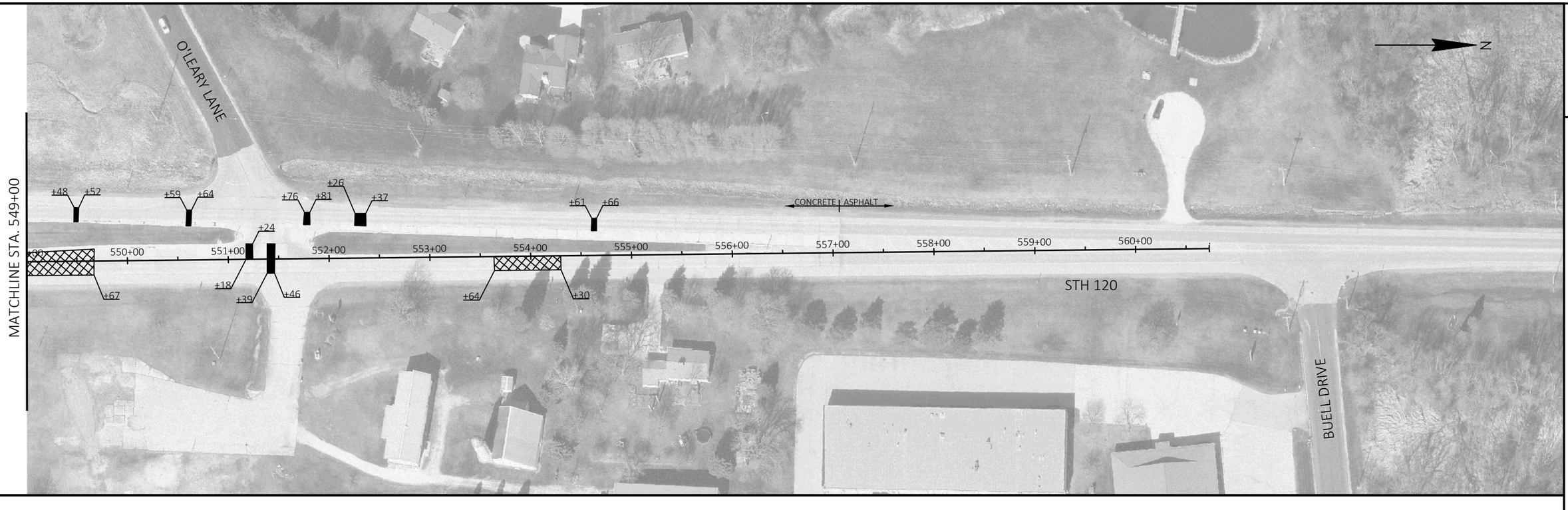
WISDOT/CADDS SHEET 42





PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN DETAILS - PAVEMENT REHAB	SHEET 32	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021211-pd
PLOT DATE : 1/5/2023 4:05 PM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : ##########



LEGEND

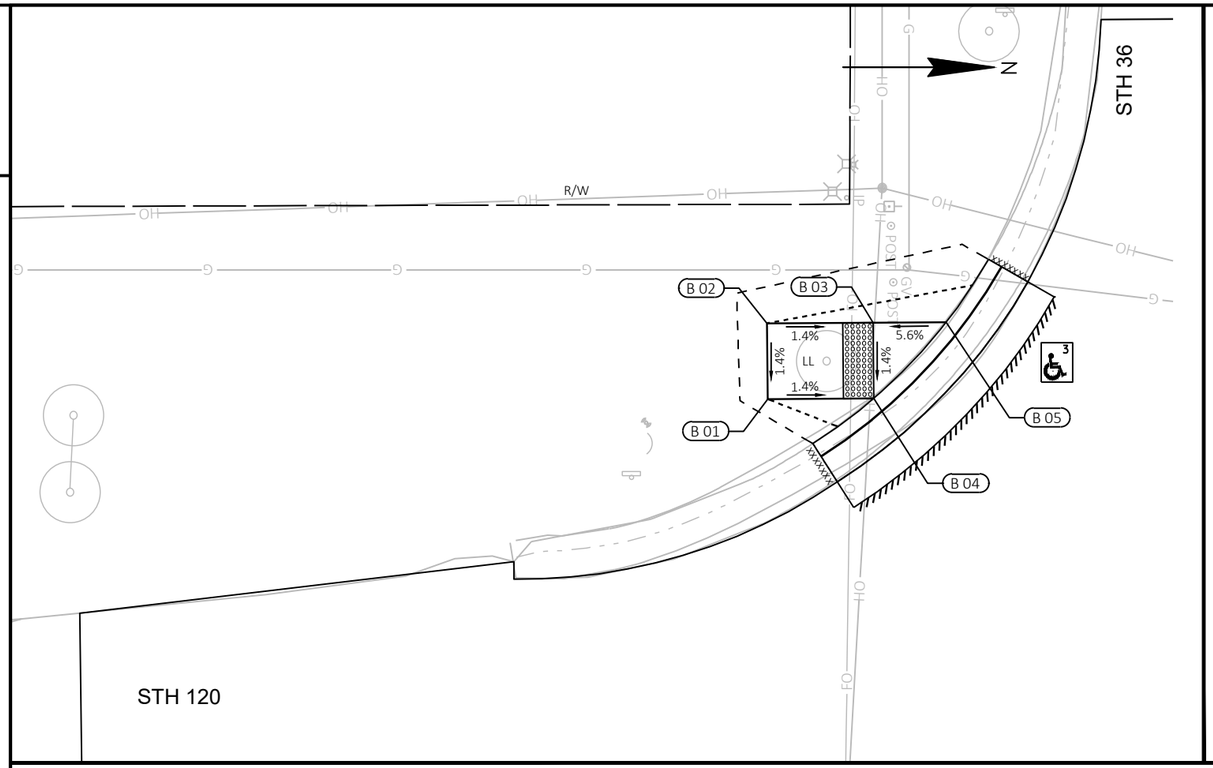
- CONCRETE PAVEMENT REPLACEMENT
- CONCRETE PAVEMENT REPLACEMENT SHES
- CONCRETE PAVEMENT REPAIR
- CONCRETE PAVEMENT REPAIR SHES

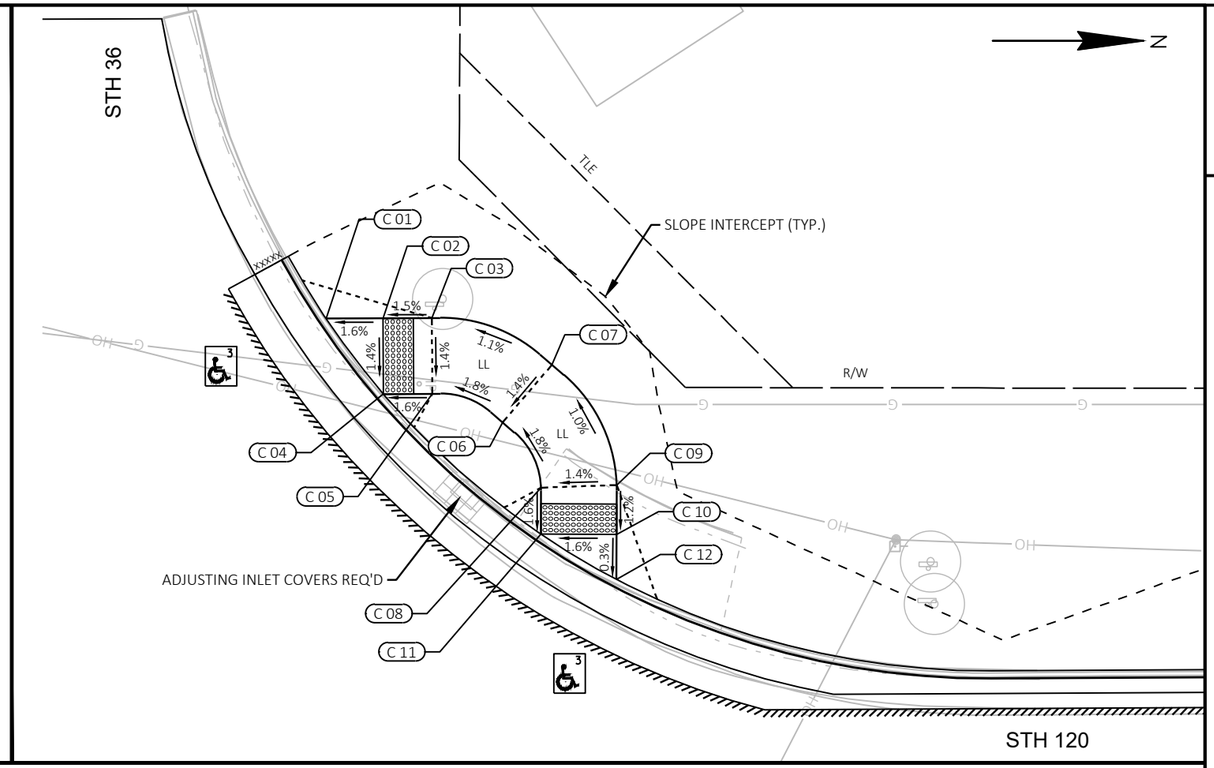
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN DETAILS - PAVEMENT REHAB	SHEET 33	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021212-pd

PLOT DATE : 1/5/2023 4:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44





STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
B 01	48+42.89	34.10' LT	353,788.84	797,416.18	849.99
B 02	48+42.91	39.10' LT	353,788.81	797,411.18	850.06
B 03	48+49.91	39.08' LT	353,795.81	797,411.14	849.96
B 04	48+49.89	34.08' LT	353,795.84	797,416.14	849.89
B 05	48+54.73	39.07' LT	353,800.62	797,411.11	850.23

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
C 01	49+05.46	38.99' LT	353,851.47	797,410.82	851.60
C 02	49+09.23	38.99' LT	353,855.24	797,410.80	851.66
C 03	49+12.45	38.99' LT	353,858.46	797,410.78	851.71
C 04	49+09.22	34.01' LT	353,855.26	797,415.78	851.59
C 05	49+12.45	33.99' LT	353,858.49	797,415.78	851.64
C 06	49+17.07	32.08' LT	353,863.12	797,417.66	851.73
C 07	49+20.34	35.86' LT	353,866.37	797,413.87	851.80
C 08	49+19.58	27.76' LT	353,865.65	797,421.97	851.82
C 09	49+24.58	27.90' LT	353,870.65	797,421.80	851.89
C 10	49+24.55	24.64' LT	353,870.64	797,425.07	851.85
C 11	49+19.55	24.69' LT	353,865.64	797,425.04	851.77
C 12	49+24.52	21.67' LT	353,870.63	797,428.03	851.84

LEGEND

XXXX SAWING CONCRETE

SAWING ASPHALT

CURB RAMP TYPE

LL LEVEL LANDING

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CURB RAMP DETAILS	SHEET 34	E

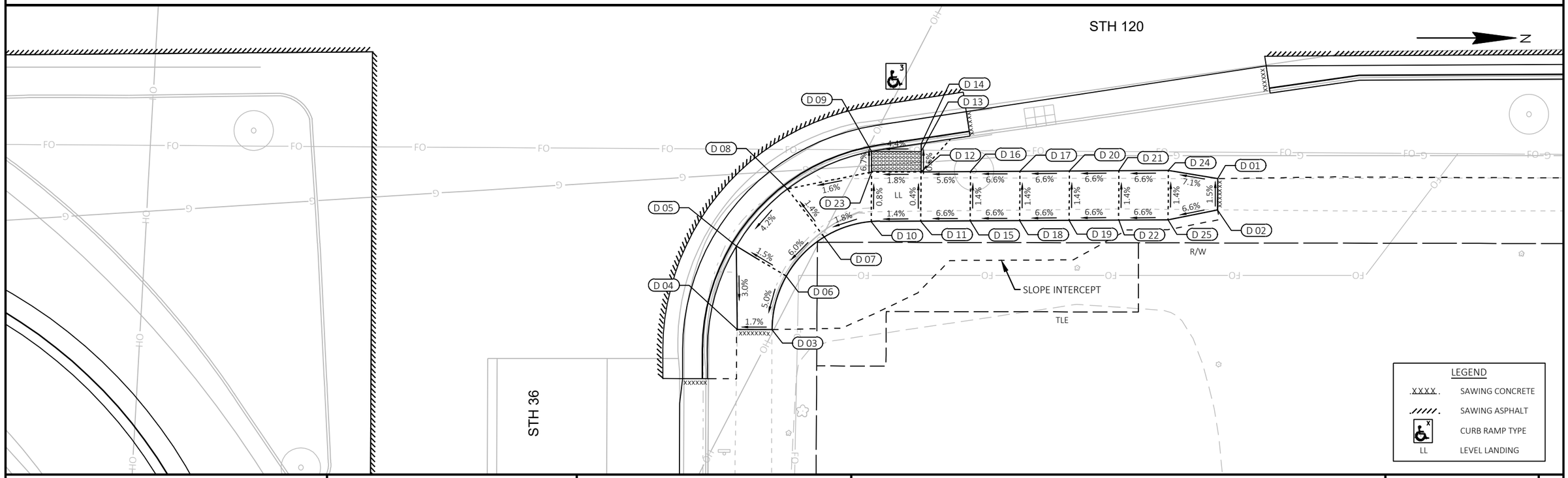
FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021301-cr

PLOT DATE : 1/5/2023 3:49 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

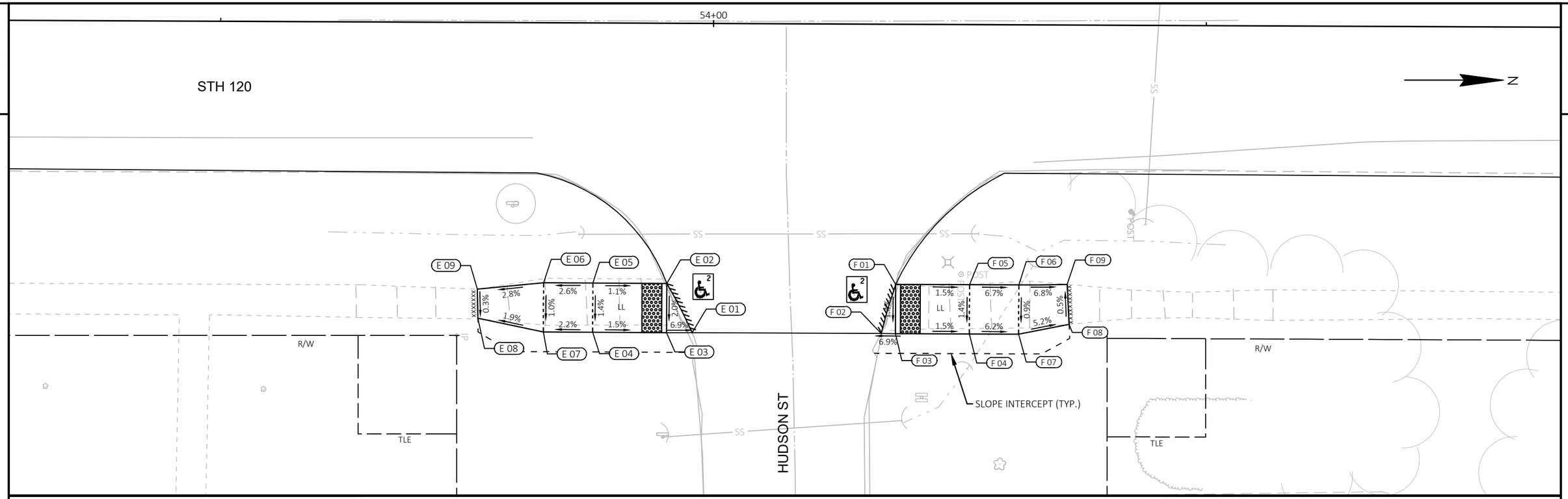
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
D 01	49+54.02	25.37' RT	353,900.40	797,474.90	MATCH EX.
D 02	49+53.98	28.52' RT	353,900.38	797,478.05	MATCH EX.
D 03	49+08.85	40.38' RT	353,855.32	797,490.17	MATCH EX.
D 04	49+05.36	40.34' RT	353,851.83	797,490.15	MATCH EX.
D 05	49+05.30	31.91' RT	353,851.72	797,481.73	850.90
D 06	49+10.34	34.97' RT	353,856.78	797,484.75	850.99
D 07	49+14.21	31.06' RT	353,860.62	797,480.82	851.32
D 08	49+10.53	26.15' RT	353,856.91	797,475.93	851.23
D 09	49+19.05	22.40' RT	353,865.41	797,472.13	851.23
D 10	49+18.97	29.54' RT	353,865.38	797,479.27	851.41
D 11	49+23.97	29.50' RT	353,870.38	797,479.20	851.48
D 12	49+24.02	24.50' RT	353,870.40	797,474.20	851.46
D 13	49+24.05	22.45' RT	353,870.41	797,472.16	851.45
D 14	49+24.05	21.65' RT	353,870.41	797,471.35	851.45
D 15	49+28.97	29.50' RT	353,875.38	797,479.17	851.81

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
D 16	49+29.02	24.50' RT	353,875.40	797,474.17	851.74
D 17	49+34.02	24.50' RT	353,880.40	797,474.15	852.07
D 18	49+33.97	29.50' RT	353,880.38	797,479.15	852.14
D 19	49+38.97	29.50' RT	353,885.38	797,479.12	852.47
D 20	49+39.02	24.50' RT	353,885.40	797,474.12	852.40
D 21	49+44.02	24.50' RT	353,890.40	797,474.09	852.73
D 22	49+43.98	29.50' RT	353,890.39	797,479.09	852.80
D 23	49+19.02	24.50' RT	353,865.40	797,474.23	851.37
D 24	49+49.03	24.50' RT	353,895.40	797,474.06	853.06
D 25	49+48.97	29.50' RT	353,895.38	797,479.06	853.13



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CURB RAMP DETAILS	SHEET 35	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021302-cr
PLOT DATE : 1/5/2023 3:49 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ##########



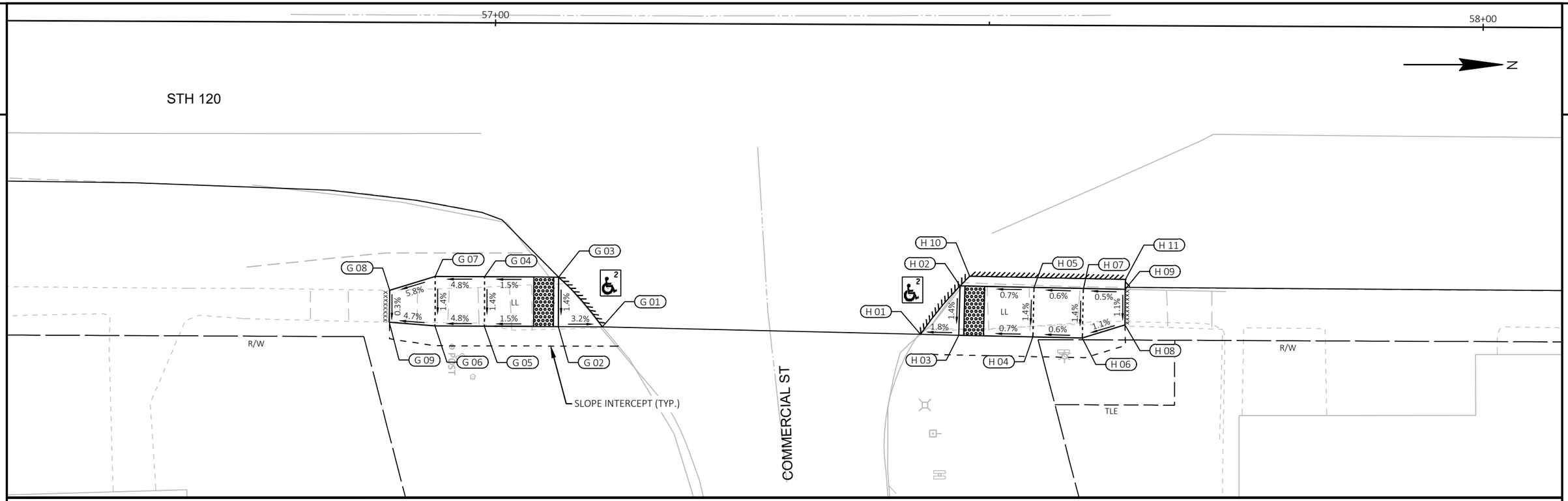
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
E 01	53+97.97	31.41' RT	354,344.06	797,481.40	852.93
E 02	53+95.37	26.42' RT	354,341.48	797,476.39	853.21
E 03	53+95.37	31.41' RT	354,341.46	797,481.38	853.11
E 04	53+87.87	31.41' RT	354,333.96	797,481.34	853.22
E 05	53+87.87	26.41' RT	354,333.98	797,476.35	853.29
E 06	53+82.87	26.41' RT	354,328.98	797,476.33	853.16
E 07	53+82.87	31.41' RT	354,328.96	797,481.33	853.11
E 08	53+76.23	30.04' RT	354,322.32	797,479.93	MATCH EX.
E 09	53+76.16	27.09' RT	354,322.27	797,476.98	MATCH EX.

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
F 01	54+18.59	26.41' RT	354,364.70	797,476.49	853.08
F 02	54+17.15	31.41' RT	354,363.24	797,481.48	852.91
F 03	54+18.59	31.41' RT	354,364.68	797,481.49	853.01
F 04	54+26.09	31.41' RT	354,372.18	797,481.52	852.90
F 05	54+26.09	26.41' RT	354,372.20	797,476.52	852.97
F 06	54+31.09	26.41' RT	354,377.20	797,476.54	852.64
F 07	54+31.09	31.41' RT	354,377.18	797,481.54	852.59
F 08	54+36.20	30.39' RT	354,382.30	797,480.54	MATCH EX.
F 09	54+36.00	26.34' RT	354,382.11	797,476.49	MATCH EX.

LEGEND

XXXX	SAWING CONCRETE
	SAWING ASPHALT
	CURB RAMP TYPE
LL	LEVEL LANDING

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CURB RAMP DETAILS	SHEET 36	E



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
G 01	57+10.94	30.69' RT	354,657.03	797,482.06	853.33
G 02	57+06.51	30.68' RT	354,652.60	797,482.04	853.47
G 03	57+06.51	25.68' RT	354,652.62	797,477.04	853.54
G 04	56+99.01	25.68' RT	354,645.12	797,477.00	853.43
G 05	56+99.01	30.68' RT	354,645.10	797,482.01	853.36
G 06	56+94.01	30.68' RT	354,640.10	797,481.98	853.12
G 07	56+94.01	25.68' RT	354,640.12	797,476.98	853.19
G 08	56+89.40	27.09' RT	354,635.50	797,478.37	MATCH EX.
G 09	56+89.38	30.32' RT	354,635.47	797,481.60	MATCH EX.

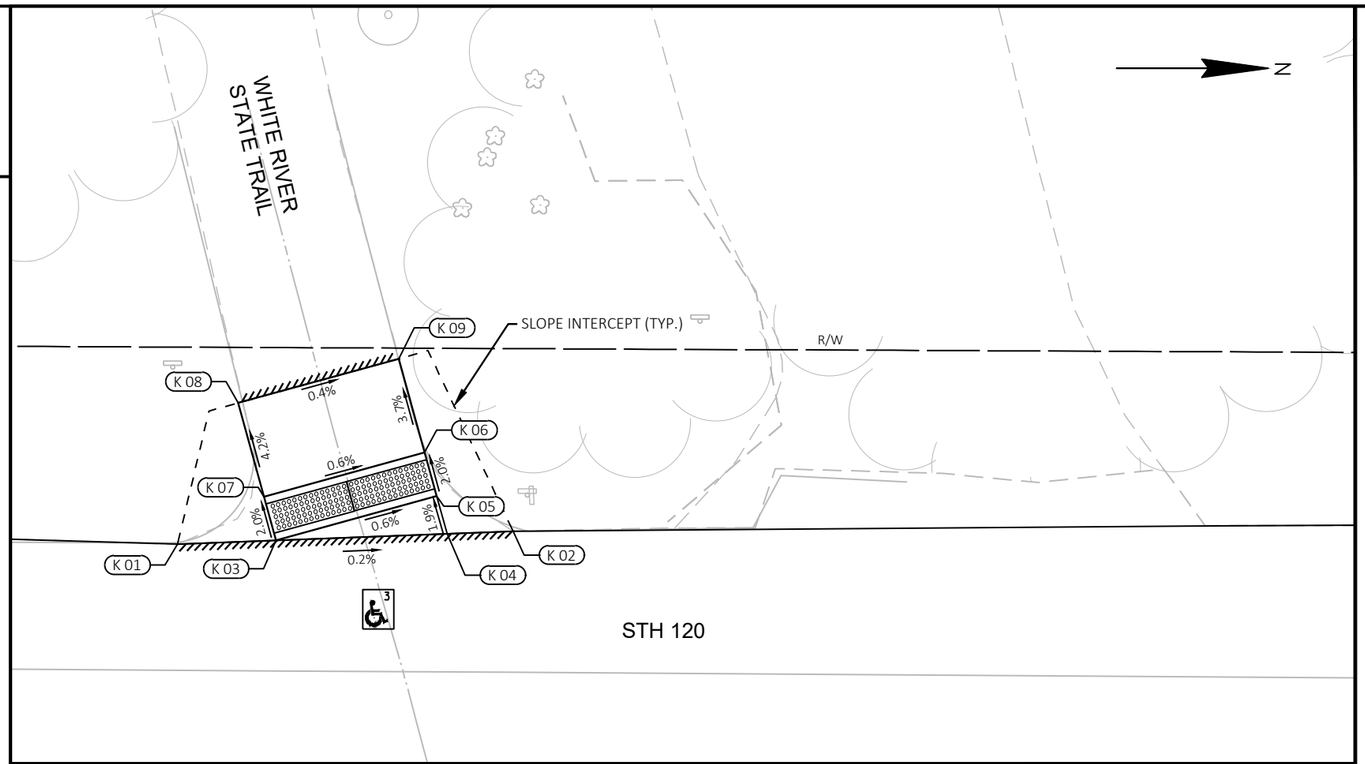
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
H 01	57+43.16	31.31' RT	354,689.25	797,482.83	853.80
H 02	57+47.14	26.38' RT	354,693.25	797,477.92	853.94
H 03	57+47.05	31.39' RT	354,693.14	797,482.92	853.87
H 04	57+54.55	31.51' RT	354,700.64	797,483.08	853.92
H 05	57+54.64	26.51' RT	354,700.74	797,478.08	853.99
H 06	57+59.55	31.60' RT	354,705.64	797,483.19	853.95
H 07	57+59.64	26.60' RT	354,705.74	797,478.19	854.02
H 08	57+63.87	30.27' RT	354,709.96	797,481.88	MATCH EX.
H 09	57+63.87	26.67' RT	354,709.98	797,478.28	MATCH EX.
H 10	57+48.11	25.40' RT	354,694.22	797,476.94	854.00
H 11	57+63.89	25.67' RT	354,710.00	797,477.28	854.12

LEGEND

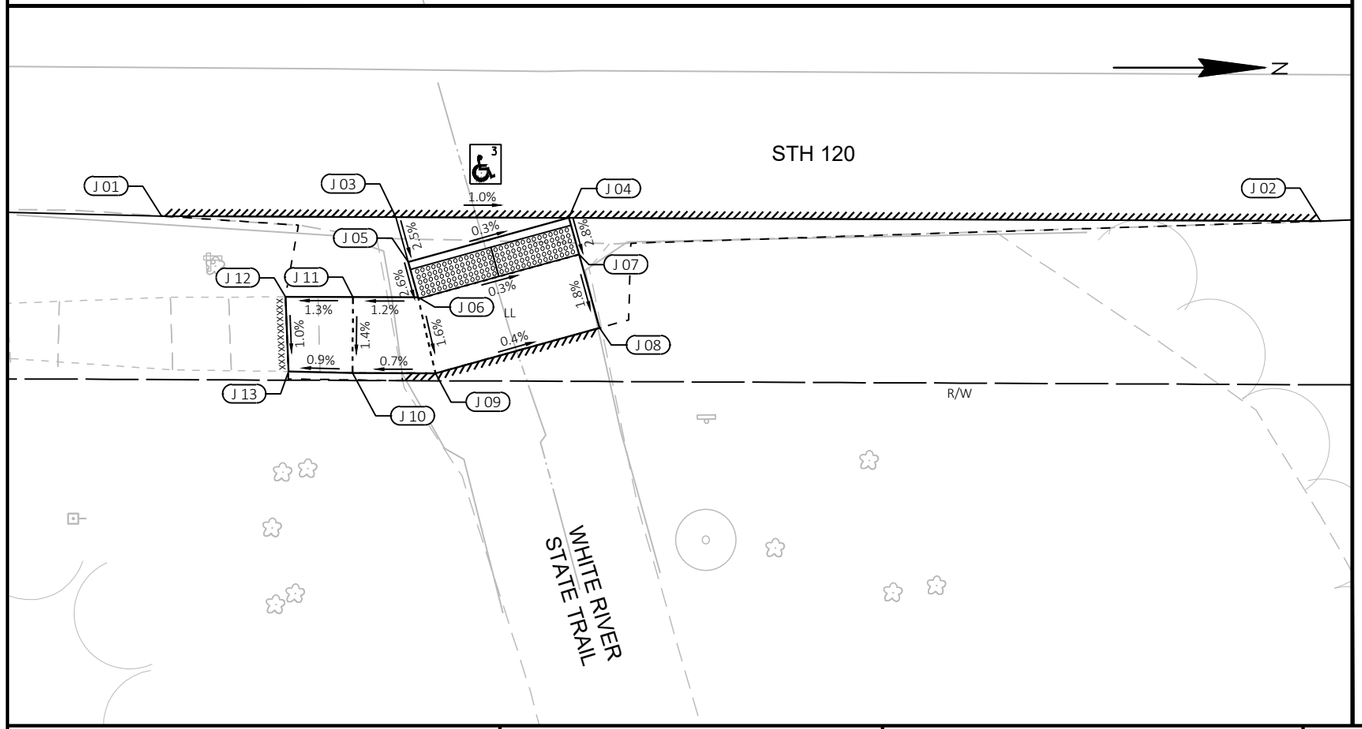
- XXXX — SAWING CONCRETE
- SAWING ASPHALT
- CURB RAMP TYPE
- LL — LEVEL LANDING

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CURB RAMP DETAILS	SHEET 37	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021304-cr
PLOT DATE : 1/5/2023 3:51 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
K 01	58+69.19	21.20' LT	354,815.51	797,430.88	855.45
K 02	58+91.33	22.16' LT	354,837.65	797,430.02	855.40
K 03	58+75.69	21.48' LT	354,822.01	797,430.63	855.43
K 04	58+86.98	21.97' LT	354,833.30	797,430.19	855.41
K 05	58+86.29	24.45' LT	354,832.62	797,427.70	855.36
K 06	58+85.47	27.34' LT	354,831.82	797,424.81	855.30
K 07	58+74.88	24.37' LT	354,821.22	797,427.74	855.37
K 08	58+73.15	30.54' LT	354,819.51	797,421.56	MATCH EX.
K 09	58+83.74	33.51' LT	354,830.12	797,418.63	MATCH EX.



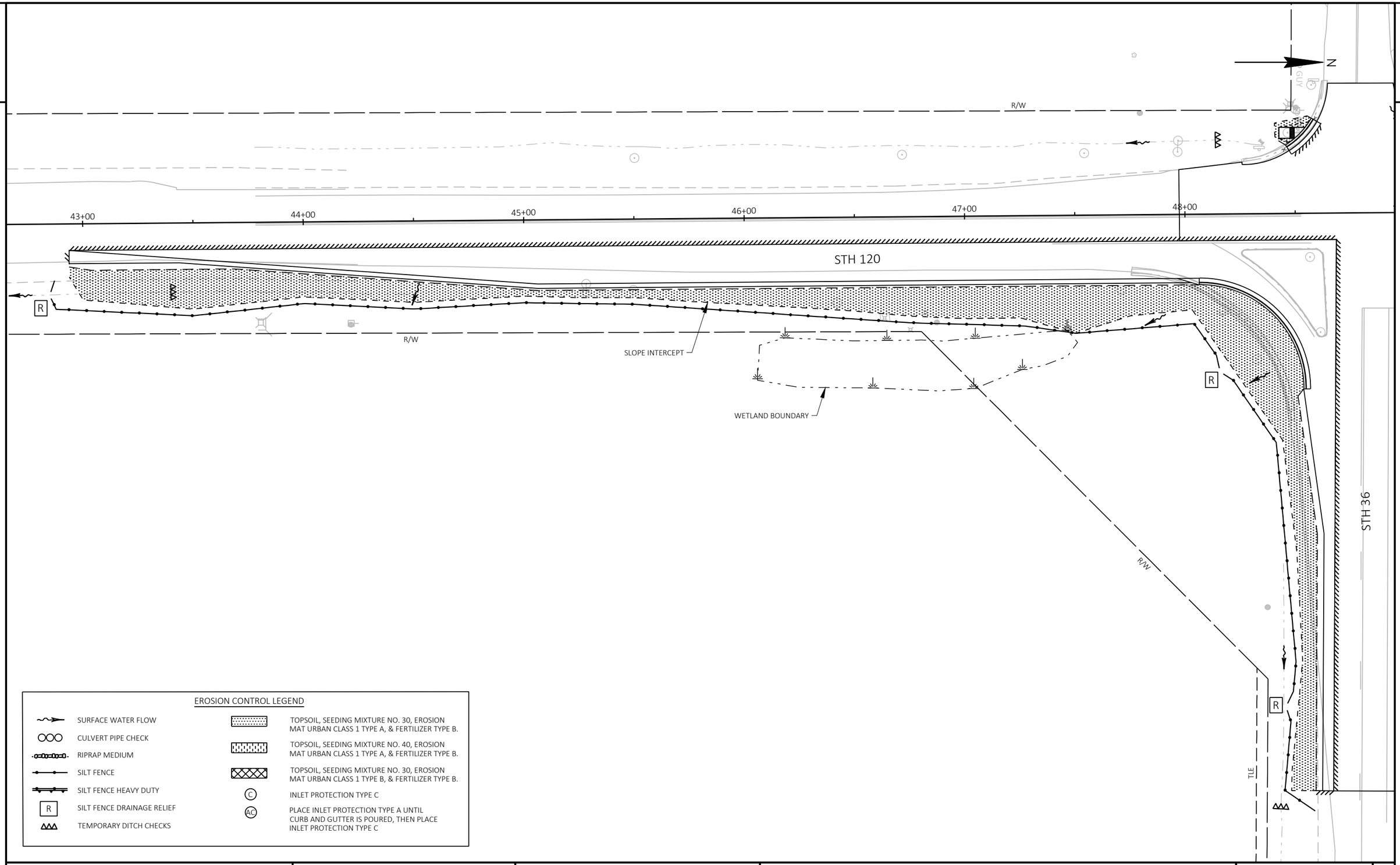
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
J 01	58+72.16	21.00' RT	354,818.29	797,473.09	855.35
J 02	59+48.61	21.00' RT	354,894.74	797,473.43	855.34
J 03	58+87.61	21.00' RT	354,833.74	797,473.16	855.46
J 04	58+99.03	21.00' RT	354,845.17	797,473.21	855.35
J 05	58+88.44	23.97' RT	354,834.56	797,476.14	855.38
J 06	58+89.09	26.29' RT	354,835.20	797,478.46	855.32
J 07	58+99.71	23.41' RT	354,845.83	797,475.62	855.28
J 08	59+01.07	28.26' RT	354,847.17	797,480.48	MATCH EX.
J 09	58+90.26	31.29' RT	354,836.35	797,483.47	MATCH EX.
J 10	58+84.80	31.29' RT	354,830.88	797,483.44	855.20
J 11	58+84.80	26.29' RT	354,830.91	797,478.44	855.27
J 12	58+80.35	26.29' RT	354,826.45	797,478.42	MATCH EX.
J 13	58+80.57	31.21' RT	354,826.65	797,483.34	MATCH EX.

LEGEND

XXXX	SAWING CONCRETE
	SAWING ASPHALT
X	CURB RAMP TYPE
LL	LEVEL LANDING

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CURB RAMP DETAILS	SHEET 38	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021305-cr
PLOT DATE : 1/5/2023 3:51 PM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



EROSION CONTROL LEGEND

- SURFACE WATER FLOW
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- SILT FENCE
- SILT FENCE HEAVY DUTY
- R — SILT FENCE DRAINAGE RELIEF
- TEMPORARY DITCH CHECKS
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 40, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE B, & FERTILIZER TYPE B.
- C — INLET PROTECTION TYPE C
- AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	EROSION CONTROL	SHEET 39	E

2

2

N

TLE

AC

R/W

49+00 50+00 51+00 52+00 53+00 54+00 55+

MATCHLINE STA. 51+50

STH 120

C

TLE

SLOPE INTERCEPT (TYP.)

R/W

C PLACE AT INLET ON THE NORTHWEST CORNER OF STH 36 AND WALWORTH STREET

EROSION CONTROL LEGEND

- SURFACE WATER FLOW
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- SILT FENCE
- SILT FENCE HEAVY DUTY
- R — SILT FENCE DRAINAGE RELIEF
- TEMPORARY DITCH CHECKS
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 40, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE B, & FERTILIZER TYPE B.
- C — INLET PROTECTION TYPE C
- AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C

N

MATCHLINE STA. 55+00

R/W

56+00 57+00 58+00 59+00 60+00 61+00

STH 120

SLOPE INTERCEPT (TYP.)

TLE

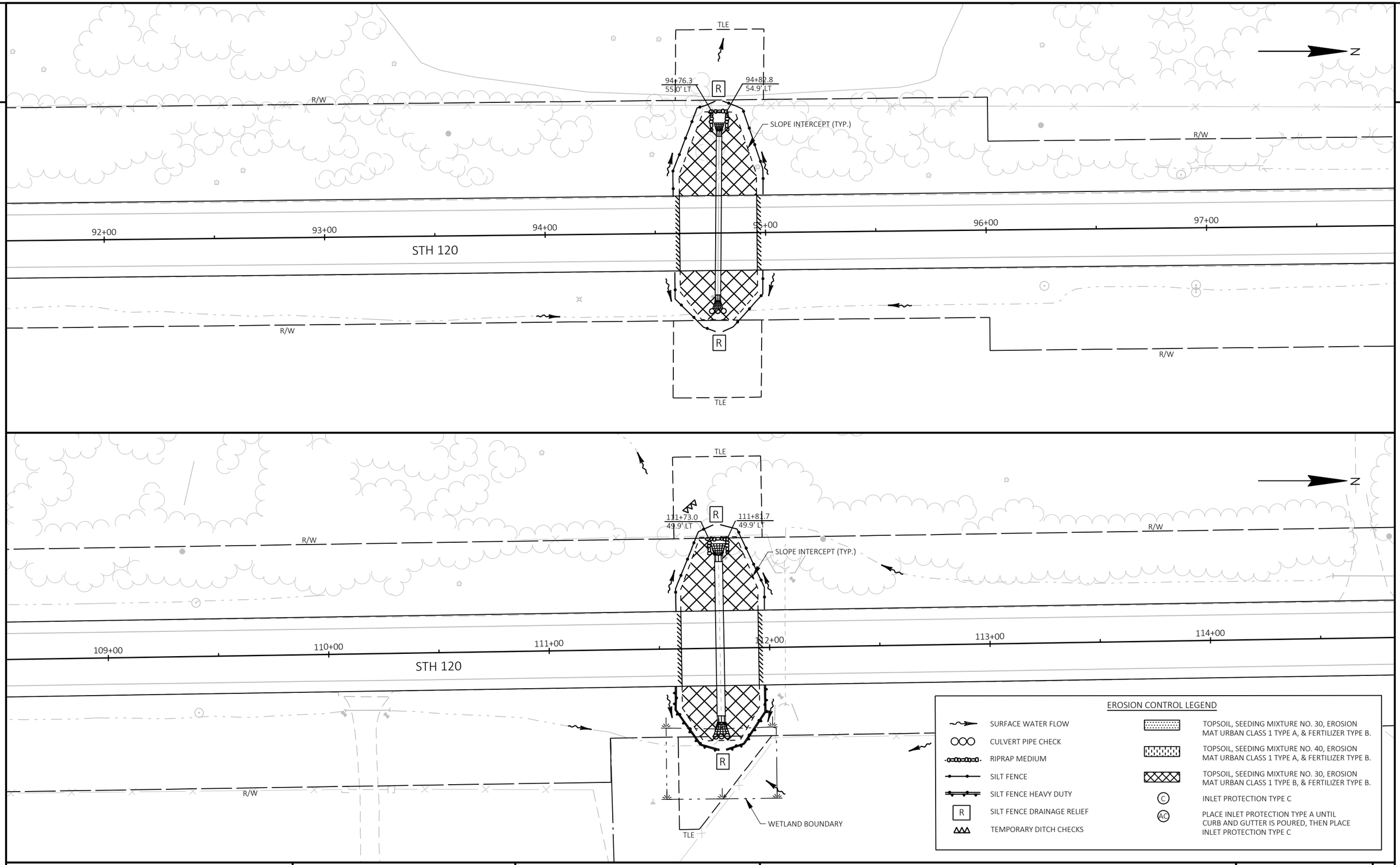
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	EROSION CONTROL	SHEET 40	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022002-ec

PLOT DATE : 2/27/2023 11:39 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

2



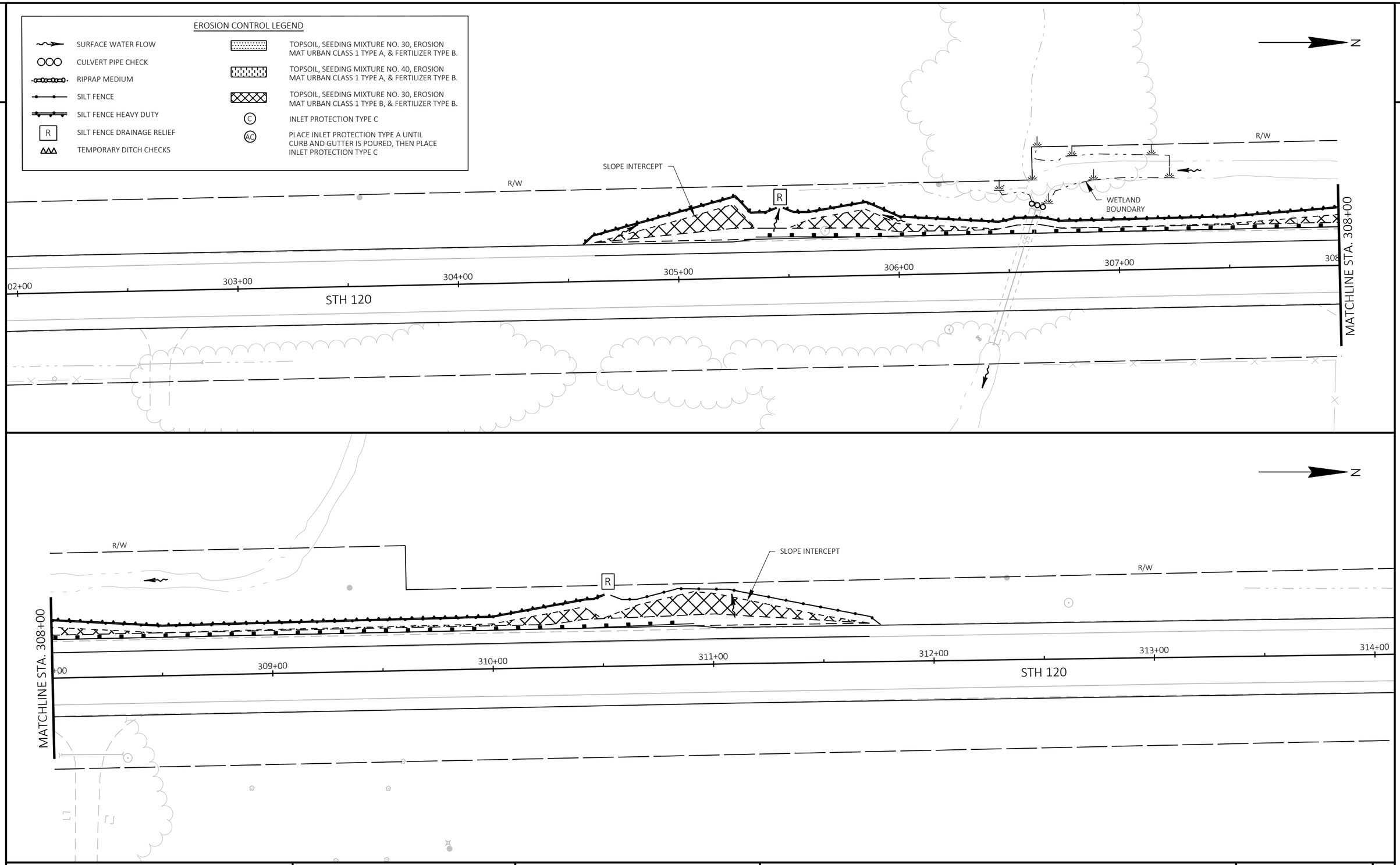
EROSION CONTROL LEGEND

- SURFACE WATER FLOW
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- SILT FENCE
- SILT FENCE HEAVY DUTY
- R — SILT FENCE DRAINAGE RELIEF
- TEMPORARY DITCH CHECKS
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 40, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE B, & FERTILIZER TYPE B.
- C — INLET PROTECTION TYPE C
- AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	EROSION CONTROL	SHEET 41	E

EROSION CONTROL LEGEND

- SURFACE WATER FLOW
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- SILT FENCE
- SILT FENCE HEAVY DUTY
- R — SILT FENCE DRAINAGE RELIEF
- TEMPORARY DITCH CHECKS
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 40, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE B, & FERTILIZER TYPE B.
- C — INLET PROTECTION TYPE C
- AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	EROSION CONTROL	SHEET 42	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022004-ec

PLOT DATE : 2/27/2023 11:40 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1IN : 40FT

2

N

WETLAND BOUNDARY (TYP.)

SLOPE INTERCEPT (TYP.)

R/W

R/W

R

R

360+00 361+00 362+00 363+00 364+00 365+00 366+00 367+00

STH 120

R

R

R/W

R/W

EROSION CONTROL LEGEND

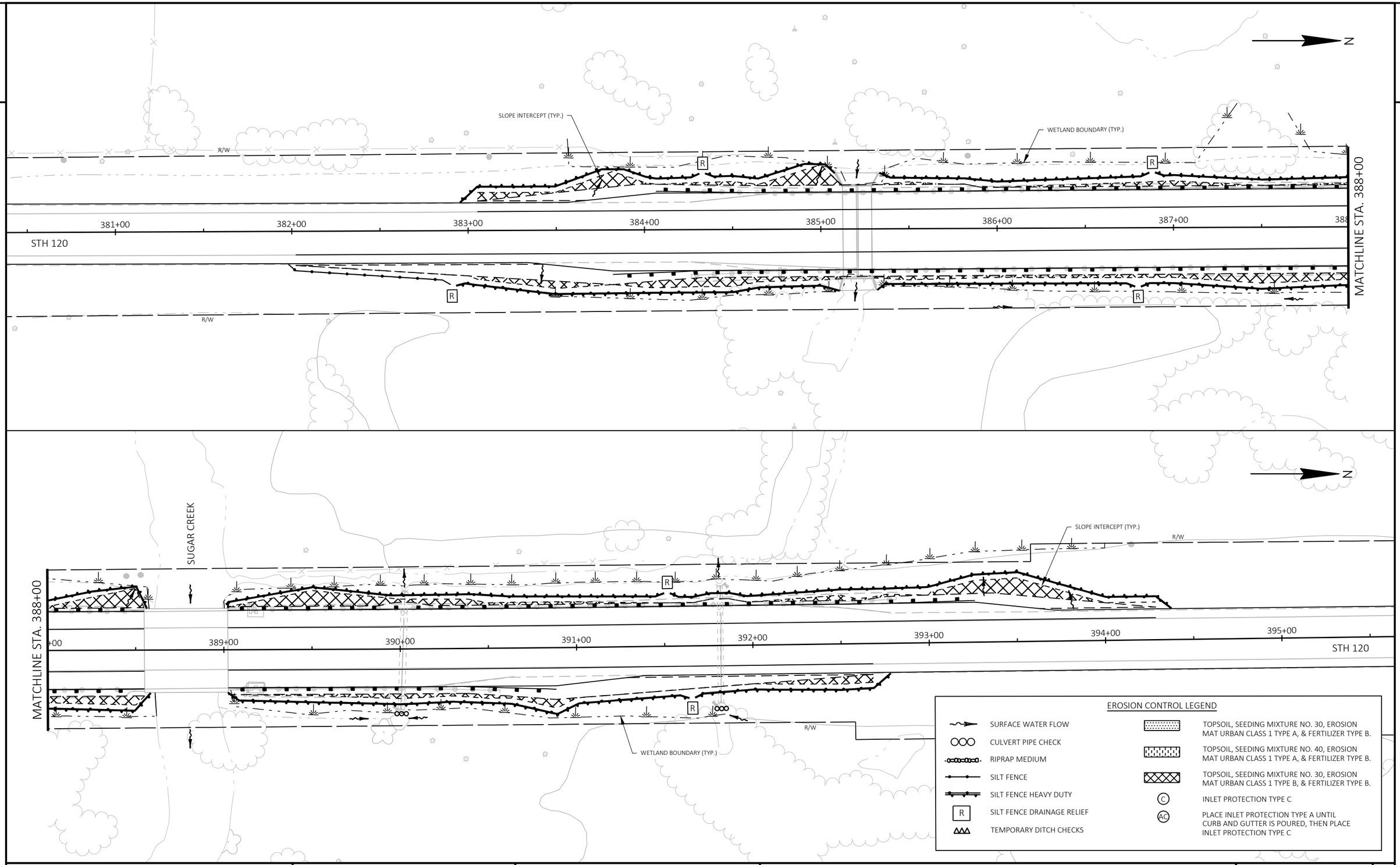
- SURFACE WATER FLOW
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- SILT FENCE
- SILT FENCE HEAVY DUTY
- R — SILT FENCE DRAINAGE RELIEF
- TEMPORARY DITCH CHECKS
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 40, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE B, & FERTILIZER TYPE B.
- C — INLET PROTECTION TYPE C
- AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	EROSION CONTROL	SHEET 43	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022005-ec

PLOT DATE : 2/27/2023 11:41 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ##########

2



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	EROSION CONTROL	SHEET 44	E

2

2

N

R/W

399+00 400+00 401+00 402+00 403+00 404+00 405+00 406

STH 120

MATCHLINE STA. 406+00

SLOPE INTERCEPT (TYP.)

R

EROSION CONTROL LEGEND

- SURFACE WATER FLOW
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- SILT FENCE
- SILT FENCE HEAVY DUTY
- R — SILT FENCE DRAINAGE RELIEF
- TEMPORARY DITCH CHECKS
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 40, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE B, & FERTILIZER TYPE B.
- (C) — INLET PROTECTION TYPE C
- (AC) — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C

N

R/W

MATCHLINE STA. 460+00

SLOPE INTERCEPT (TYP.)

R

+00 407+00 408+00 409+00 410+00 411+00 412+00 413+00

STH 120

R/W

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	EROSION CONTROL	SHEET 45	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022007-ec

PLOT DATE : 2/27/2023 11:42 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 120

481+00 482+00 483+00 484+00 485+00 486+00 487+00

481+29.9
24.8' RT

481+30.0
33.4' RT

481+44.1
32.9' RT

PL

TLE

R/W / TLE

R/W

OUT

SLOPE INTERCEPT

TREE PROTECTION (TYP.). SEE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

486+88.1
21.7' RT

486+87.8
29.7' RT

486+73.4
29.2' RT

PL

TLE

R/W / TLE

PL

EROSION CONTROL LEGEND

- SURFACE WATER FLOW
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- SILT FENCE
- SILT FENCE HEAVY DUTY
- SILT FENCE DRAINAGE RELIEF (R)
- TEMPORARY DITCH CHECKS
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 40, EROSION MAT URBAN CLASS 1 TYPE A, & FERTILIZER TYPE B.
- TOPSOIL, SEEDING MIXTURE NO. 30, EROSION MAT URBAN CLASS 1 TYPE B, & FERTILIZER TYPE B.
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	EROSION CONTROL	SHEET 46	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022008-ec

PLOT DATE : 2/27/2023 11:42 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

TLE

R/W

OH

WE ENERGIES
(ELECTRICITY)

STA. 94+79.37, 43.84' LT
INVERT ELEV. 892.42

92+00

93+00

94+00

95+00

96+00

97+00

94+61.1
0.0'

94+96.1
0.0'

STH 120

STA. 94+78.07, 28.15' RT
INVERT ELEV. 899.47

STA. 94+78.58
REMOVING SMALL PIPE CULVERTS REQ'D.
1 - CULVERT PIPE CLASS III-B NON-METAL 24-INCH
2 - APRON ENDWALLS FOR CULVERT PIPE 24-INCH

FO

AT&T
(COMMUNICATION LINE)

SIGN

TLE

N

WE ENERGIES
(ELECTRICITY)

STA. 111+77.51
REMOVING SMALL PIPE CULVERTS REQ'D.
1 - CULVERT PIPE CLASS III-B NON-METAL 36-INCH
2 - APRON ENDWALLS FOR CULVERT PIPE 36-INCH

STA. 111+77.41, 39.27' LT
INVERT ELEV. 917.33

109+00

110+00

111+00

112+00

113+00

114+00

111+60.0
0.0'

111+95.0
0.0'

STH 120

STA. 111+77.58, 30.73' RT
INVERT ELEV. 923.40

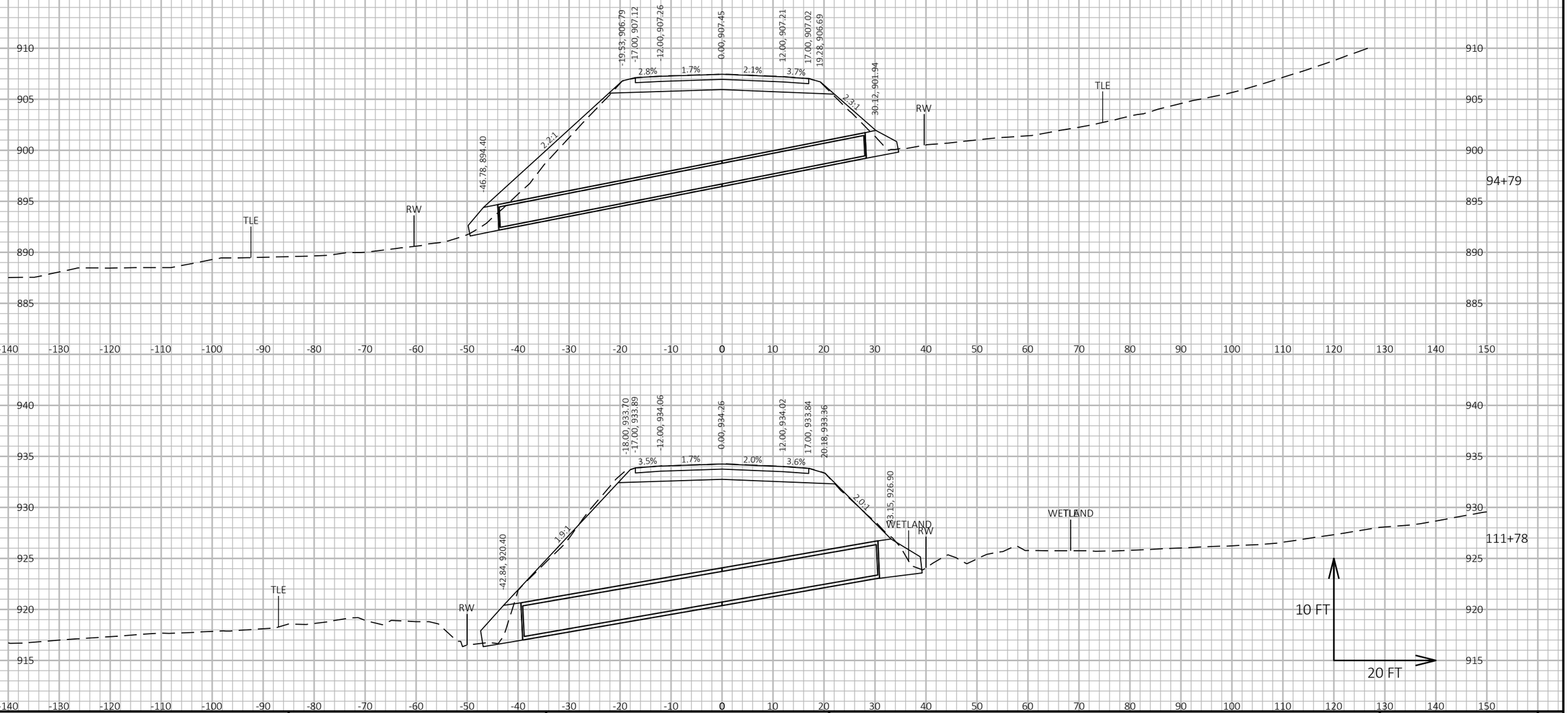
T

AT&T
(COMMUNICATION LINE)

WETLAND BOUNDARY

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CULVERT PIPE	SHEET 47	E

2



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CULVERT PIPE CROSS SECTIONS	SHEET 48	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\022502-SS.DWG
LAYOUT NAME - 022502-ss

PLOT DATE : 1/6/2023 10:47 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

STH 120

STH 36

Lake Geneva 3
D2-1
ESTR

W1-5L
45 MPH
W13-1
ESTR

SPEED LIMIT 55
R2-1
ESTR

SOUTH 120
J4-1
BIKE ROUTE
D11-1
ESTR

ADOPT A HIGHWAY
I55-56
ESTR

15
16
17
STOP
R1-1
ALL WAY
R1-3P
MOVE

STOP 14
R1-1
ALL WAY
14A
R1-3P

WEIGHT LIMIT CLASS B
11
R12-53
MOVE

STREET NAME SIGN MOVED BY OTHERS

NORTH 36 13
J3-1
MOVE

STOP 12
R1-1
ALL WAY
R1-3P
MOVE

Lake Geneva
Lyons
Burlington
38
D1-3
MOVE

37
W3-1
MOVE

STREET NAME SIGN MOVED BY OTHERS

Springfield Rd
D1-1
ESTR

ALTERNATE SOUTH 43
J3-1
ESTR

NORTH 36 SOUTH 120
J2-2
ESTR

W3-1
ESTR

3
Springfield
UNINCORPORATED
I2-3
MOVE

1
ONLY
R3-8ER

2
W1-5L
45 MPH
2A
W13-1
MOVE

4
NORTH 36
J3-1
MOVE

5
YIELD
R1-2
REMOVE

48
DO NOT ENTER
R5-1
REMOVE

8
STOP
R1-1
MOVE

NORTH 36
J4-1
ESTR

W3-1
ESTR

STOP 6
R1-1
ALL WAY
R1-3P
MOVE

STOP 7
R1-1
ALL WAY
R1-3P
MOVE

NORTH 120 39
J4-1
BIKE ROUTE
D11-1
MOVE

35
ADOPT A HIGHWAY
I55-56

NO PARKING ANY TIME
R7-1D
MOVE

SPEED LIMIT 30
R2-1
MOVE
36

W3-1
MOVE
PART OF
36

NO PARKING ANY TIME
R7-1R
MOVE IF
NECESSARY
9

STOP
R1-1
MOVE IF
NECESSARY
10

White River
State Trail
Parking

SOUTH 120 NORTH 120
J3-2
ESTR

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTY(S)	PHONE#
• JENNY BUCKETT	MILWAUKEE, KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
• CHUCK SALDIVAR	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 (414-266-1164) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POST SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

BOX OUT OR CORING OF CONCRETE FOR SIGN POSTS IS INCIDENTAL TO THE POST.

SHEET 1 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 49	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 01
PLOT DATE : 12/20/2022 3:25 PM
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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

JCT 36
J1-1
ESTR

20 RECREATIONAL TRAIL XING
W11-15A
W16-7L
MOVE IF NECESSARY FOR DETECTABLE WARNING FIELD WORK

21
TRAIL SIGNS
MOVE IF NECESSARY

ONE WAY
R6-2R (PRIVATE)
ESTR

ONE WAY
R6-2L (PRIVATE)
ESTR

White River State Trail Parking
LUNCH SMOOTHIES & BIKE RENTALS

STOP
R1-1
ESTR

STREET NAME SIGN

DEPOT ST

STREET NAME SIGN

SPRING ST

STOP 23
R1-1
RAISE UP - TOO LOW
NEW POST
MOVE SIGN

STREET NAME SIGN

STOP
R1-1
ESTR

WEIGHT LIMIT CLASS B
R12-53
ESTR

SIDE RD

56 58 60 62 STH 120 64 66 68 70

STREET NAME SIGN
ON TOP OF R1-1

COMMERCIAL ST

BIKE ROUTE
ON L.P.
ESTR

BIKE PATH

22
STREET NAME SIGN AND TRAIL SIGNS
MOVE IF NECESSARY

18 STOP
R1-1
MOVE IF NECESSARY

RECREATIONAL TRAIL XING 19
W11-15A
W16-7L
MOVE IF NECESSARY

SPEED LIMIT 30
R2-1
ESTR

SPEED LIMIT 30
R2-1
ESTR

2

SHEET 2 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 50	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 02

PLOT DATE : 12/20/2022 3:26 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

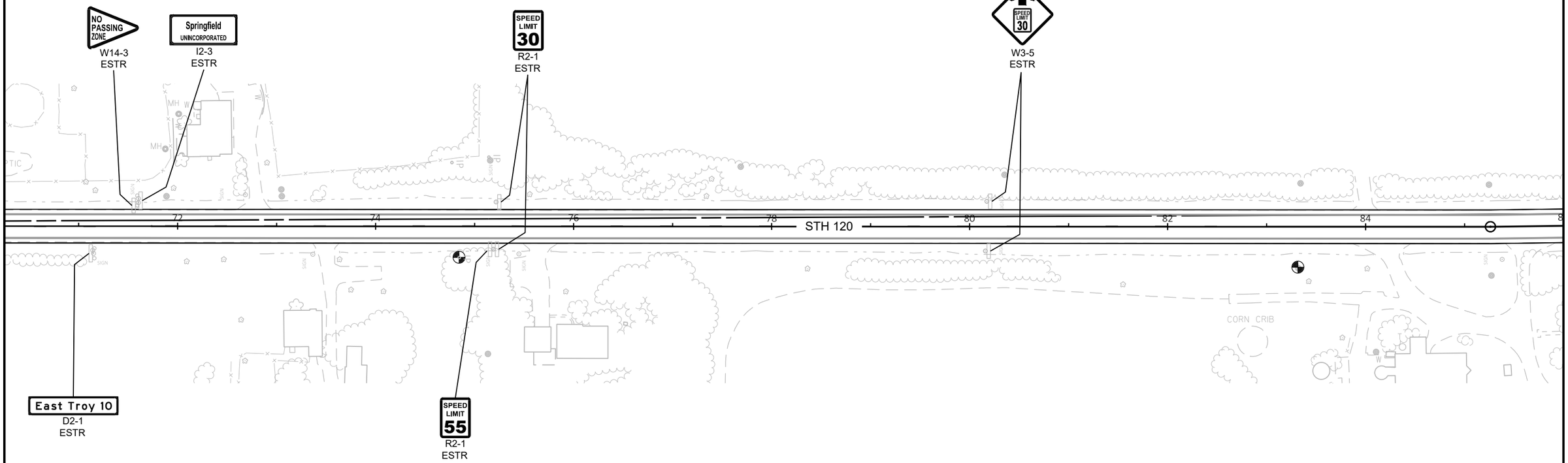
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 3 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 51	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 03

PLOT DATE : 12/20/2022 3:26 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

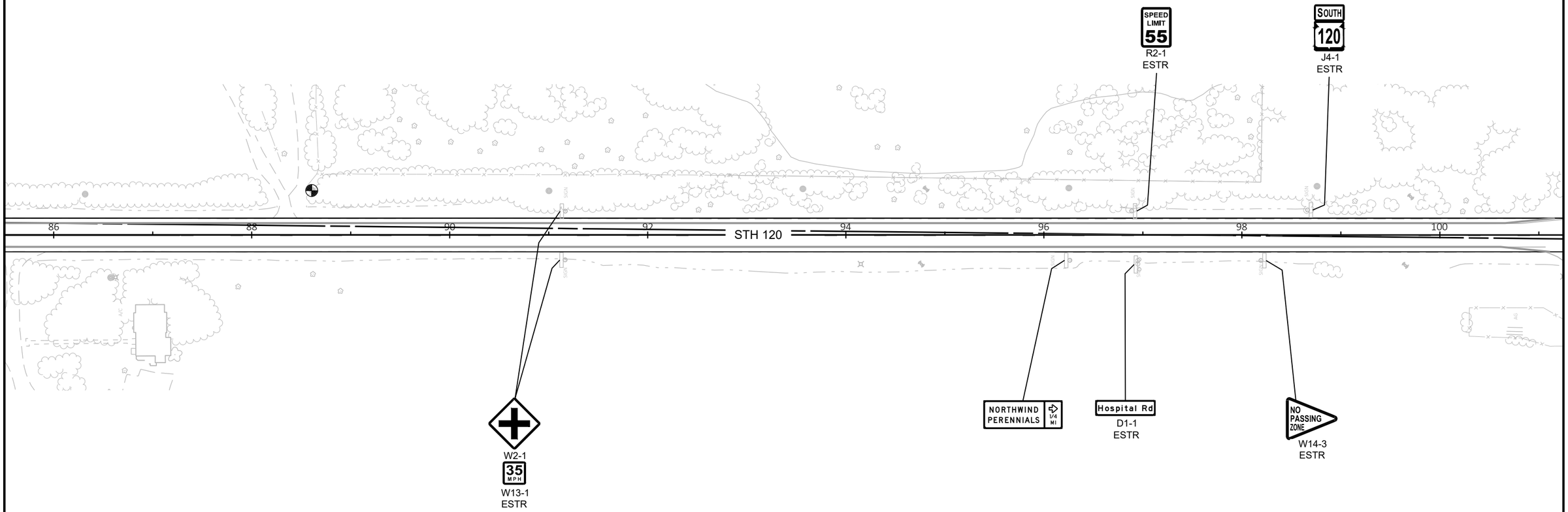
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 4 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 52	E

FILE NAME : N:\PDS\C3D\CAD\369400001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 04

PLOT DATE : 12/20/2022 3:27 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

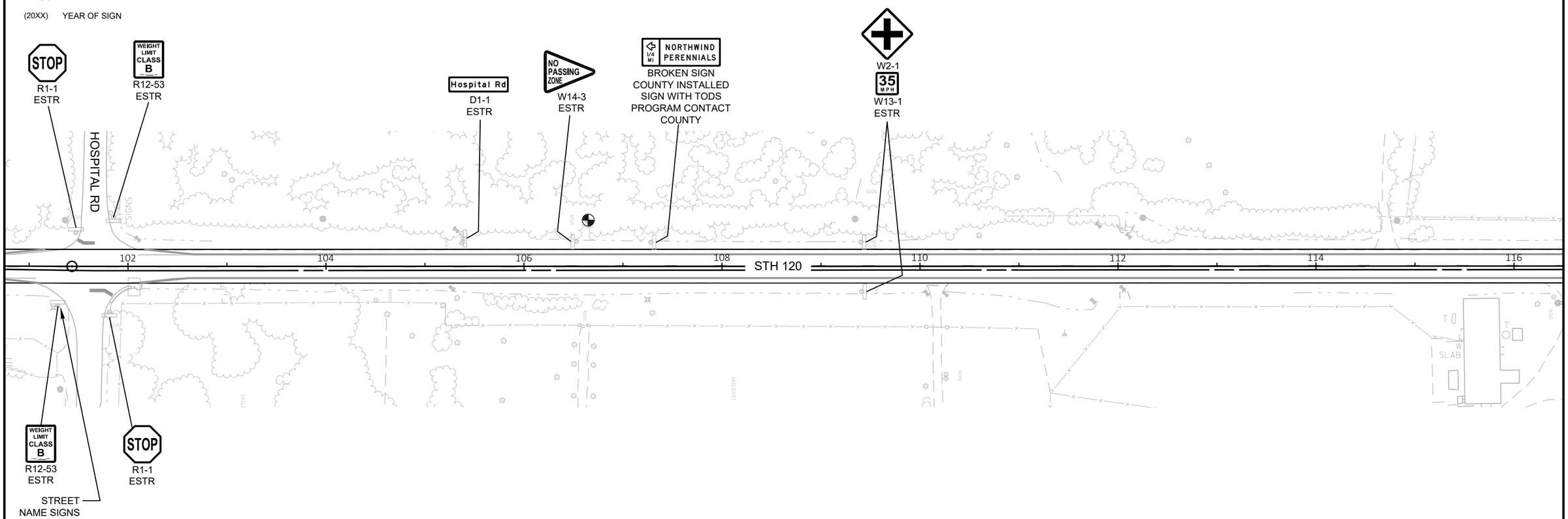
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 5 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 53	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 05

PLOT DATE : 12/20/2022 3:27 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

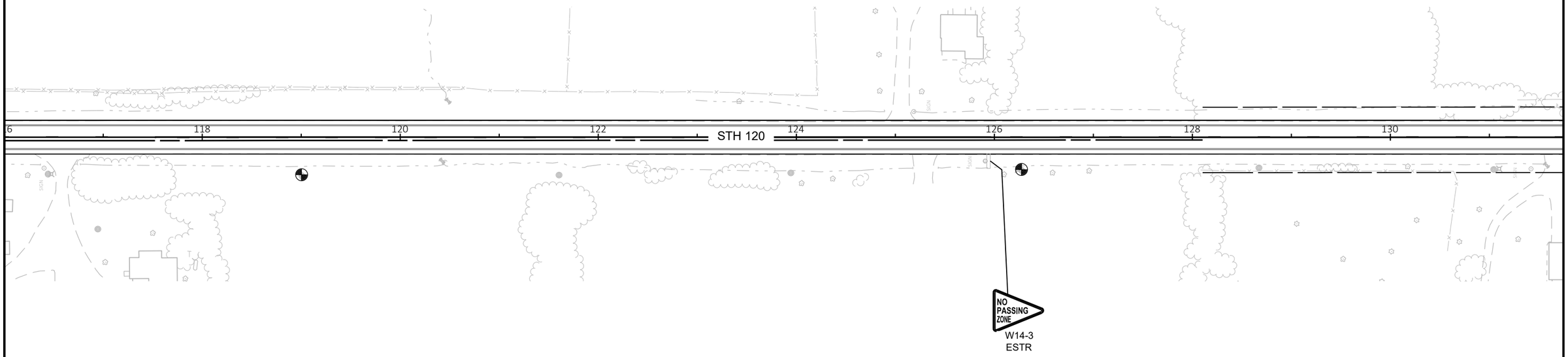
2

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

2



SHEET 6 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 54	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 06

PLOT DATE : 12/20/2022 3:27 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

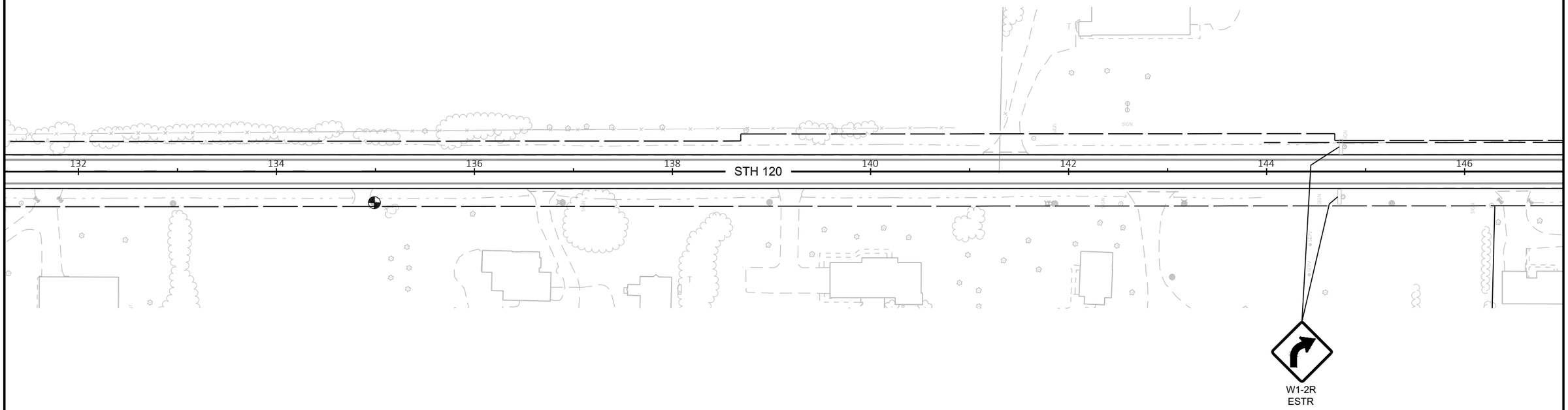
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



2

SHEET 7 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 55	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 07

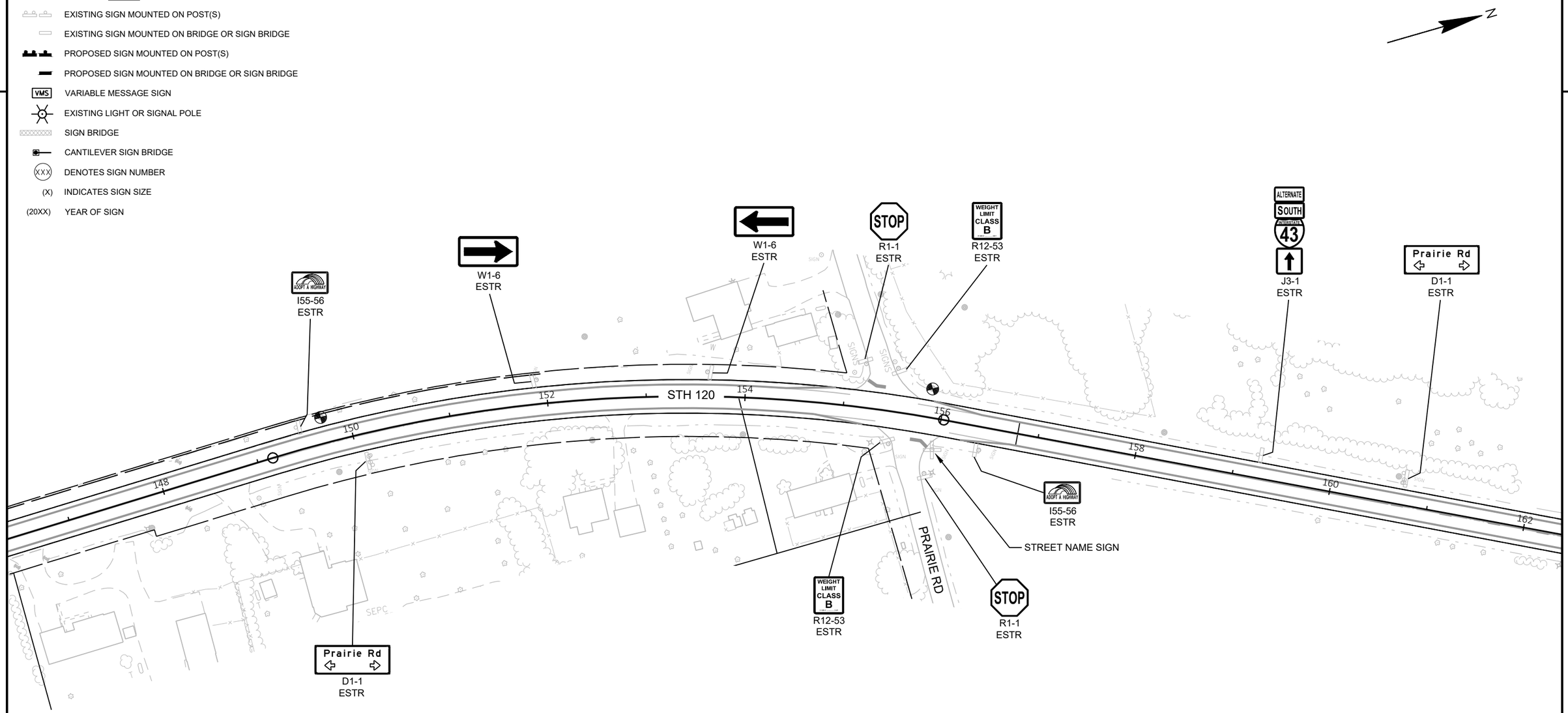
PLOT DATE : 12/20/2022 3:28 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- (20XX) YEAR OF SIGN



SHEET 8 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 56	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 08

PLOT DATE : 12/20/2022 3:28 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

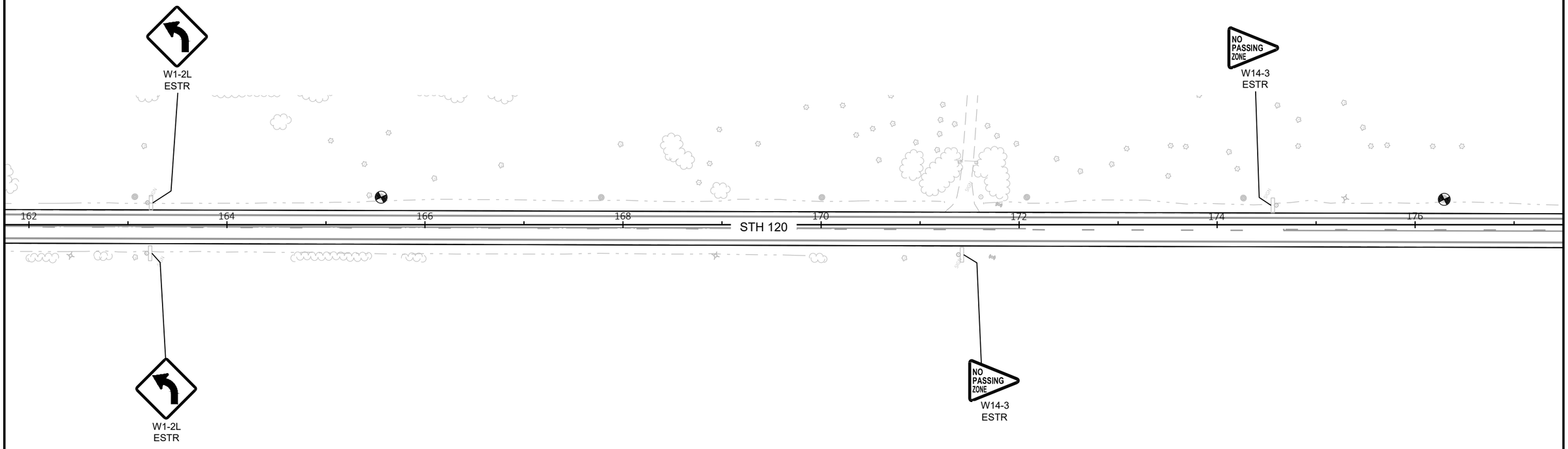
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



2

SHEET 9 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 57	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 09

PLOT DATE : 12/20/2022 3:29 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

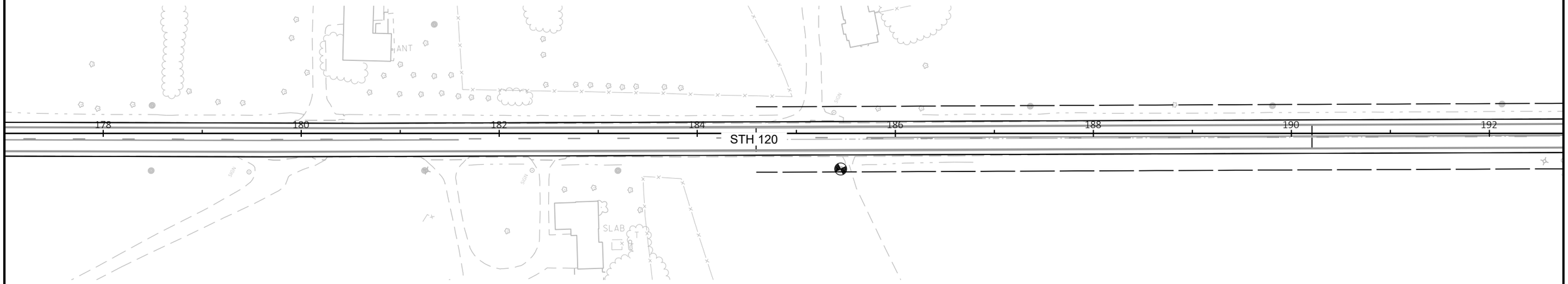
2

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

NO SIGNS
THIS SHEET

N



2

SHEET 10 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 58	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 10

PLOT DATE : 12/20/2022 3:29 PM 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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

NO PASSING ZONE
W14-3
ESTR

W1-2L
ESTR

194 196 198 STH 120 200 202 204 206

NO PASSING ZONE
W14-3
ESTR

W1-2L
ESTR

2

SHEET 11 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 59	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 11

PLOT DATE : 12/20/2022 3:30 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

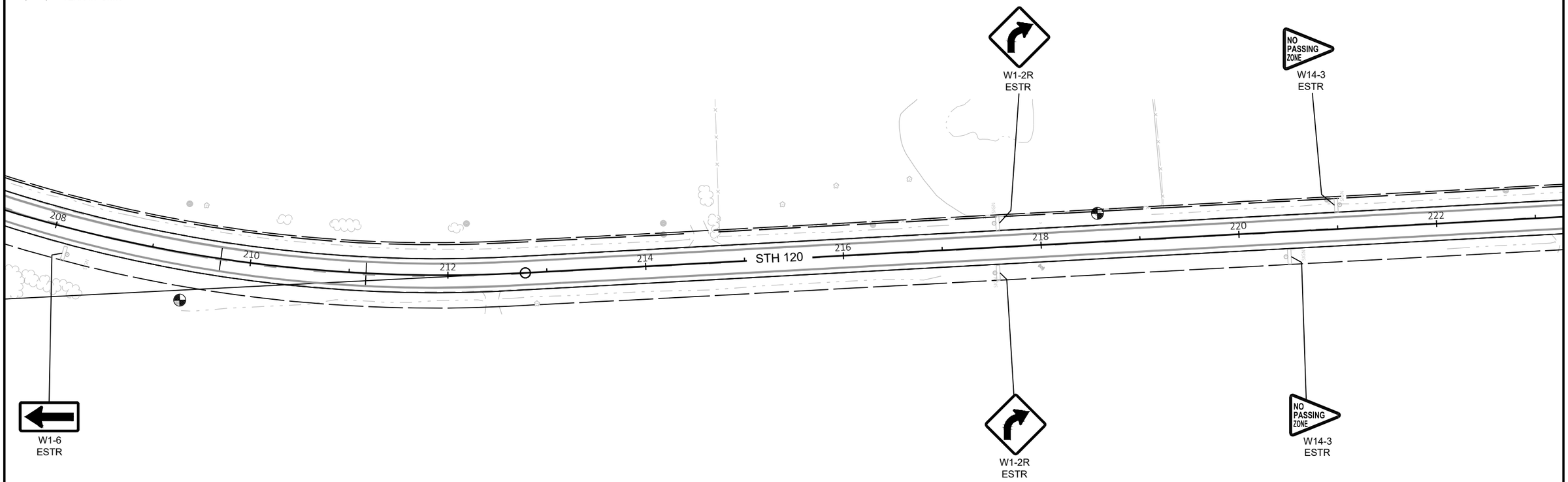
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 12 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 60	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 12

PLOT DATE : 12/20/2022 3:30 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

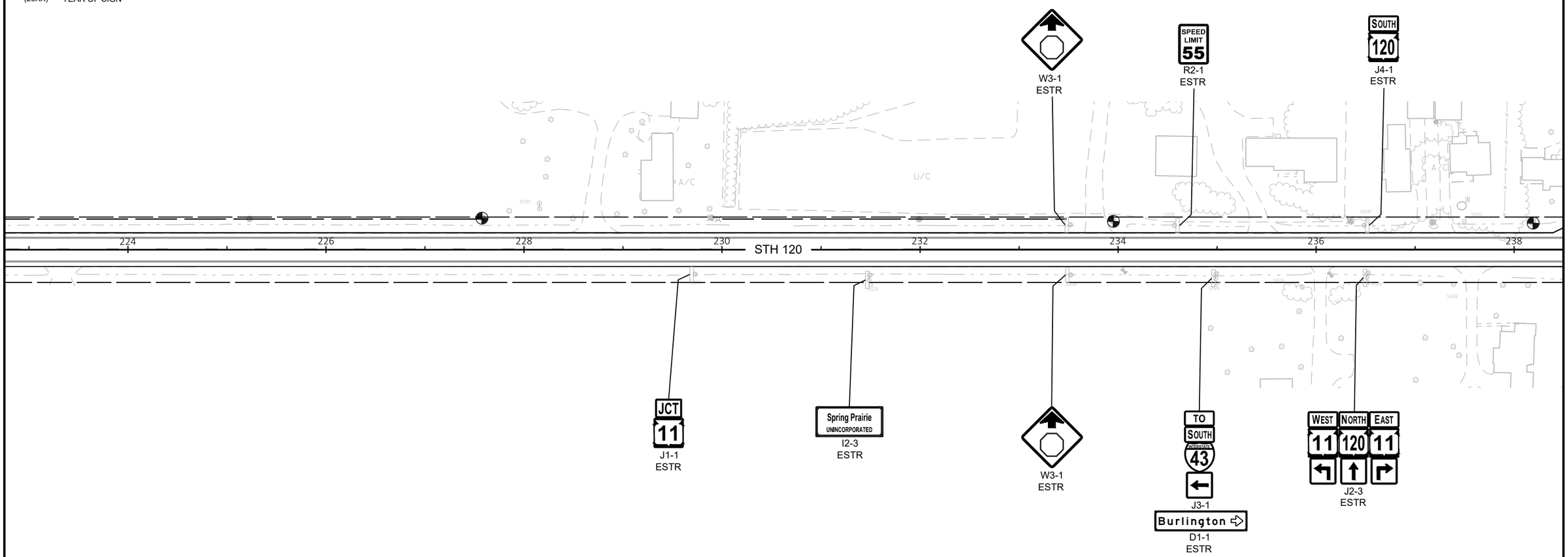
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 13 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 61	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 13

PLOT DATE : 12/20/2022 3:30 PM 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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

STH 11

STH 120

SPEED LIMIT 40
R2-1
ESTR

WEST 11
JX-X
ESTR

ADOPT A HIGHWAY
I55-56
ESTR

NO PARKING HERE TO CORNER
R7-51R
ESTR

SEE SHEET 14A FOR SIGNS AT THE INTERSECTION

EAST 11 | NORTH 120 | WEST 11
J2-3
ESTR

W3-1
ESTR

Spring Prairie UNINCORPORATED
I2-3
ESTR

Burlington To 43 SOUTH
D1-2(MOD)
ESTR

NO PARKING HERE TO CORNER
R7-1L
ESTR

EAST 11
JX-X
ESTR

NORTH 120
J4-1
ESTR

SPEED LIMIT 55
R2-1
ESTR

NO PASSING ZONE
W14-3
ESTR

24
W11-3

NEXT 3 MILES
W57-51
REMOVE

ADOPT A HIGHWAY
I55-56
ESTR

SOUTH 120 | WEST 11 | NORTH 120
J2-3
ESTR

SHEET 14 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 62	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 14

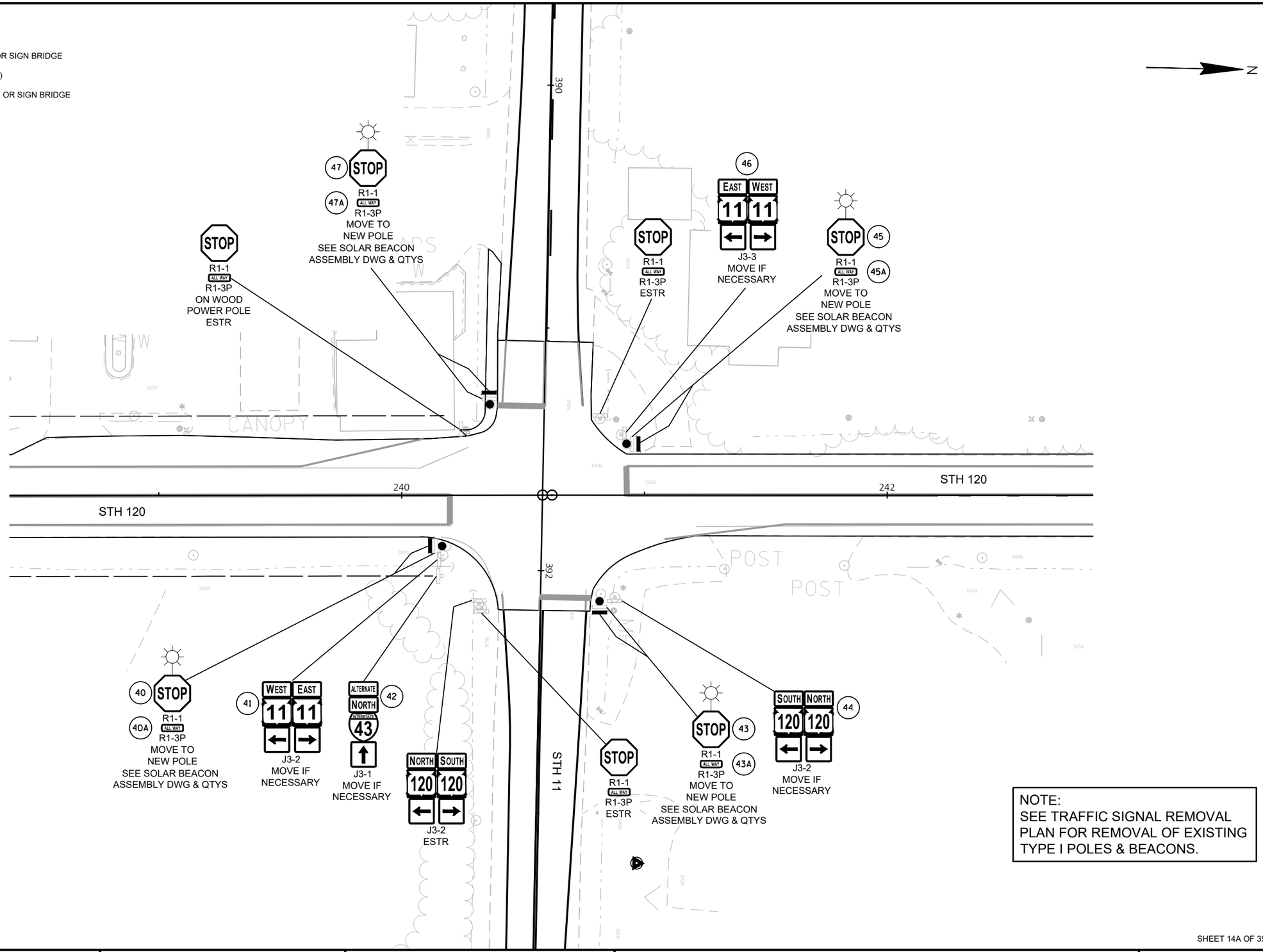
PLOT DATE : 12/20/2022 3:31 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



NOTE:
SEE TRAFFIC SIGNAL REMOVAL PLAN FOR REMOVAL OF EXISTING TYPE I POLES & BEACONS.

SHEET 14A OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 63	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 14A

PLOT DATE : 12/20/2022 3:31 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

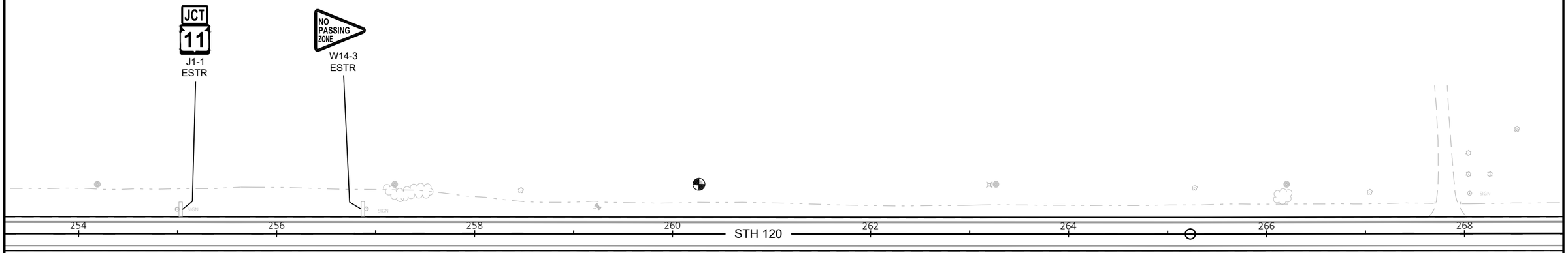
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



2

SHEET 15 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 64	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 15

PLOT DATE : 12/20/2022 3:32 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

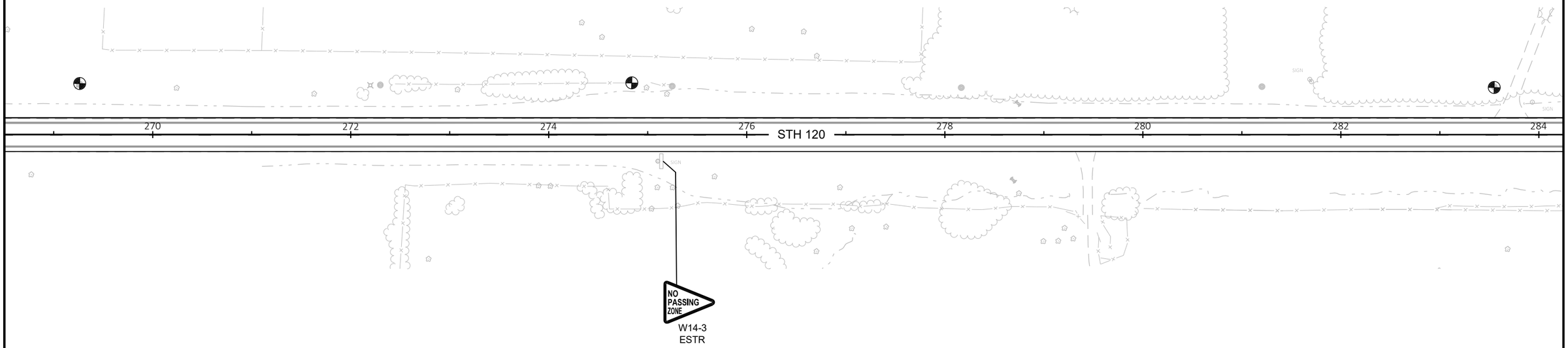
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



2

SHEET 16 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 65	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 16

PLOT DATE : 12/20/2022 3:32 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

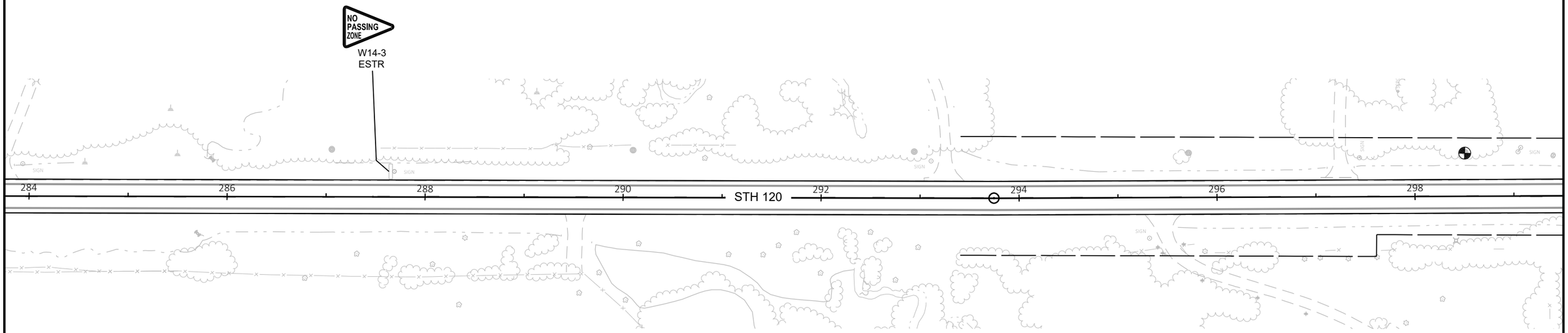
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 17 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 66	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 17

PLOT DATE : 12/20/2022 3:33 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

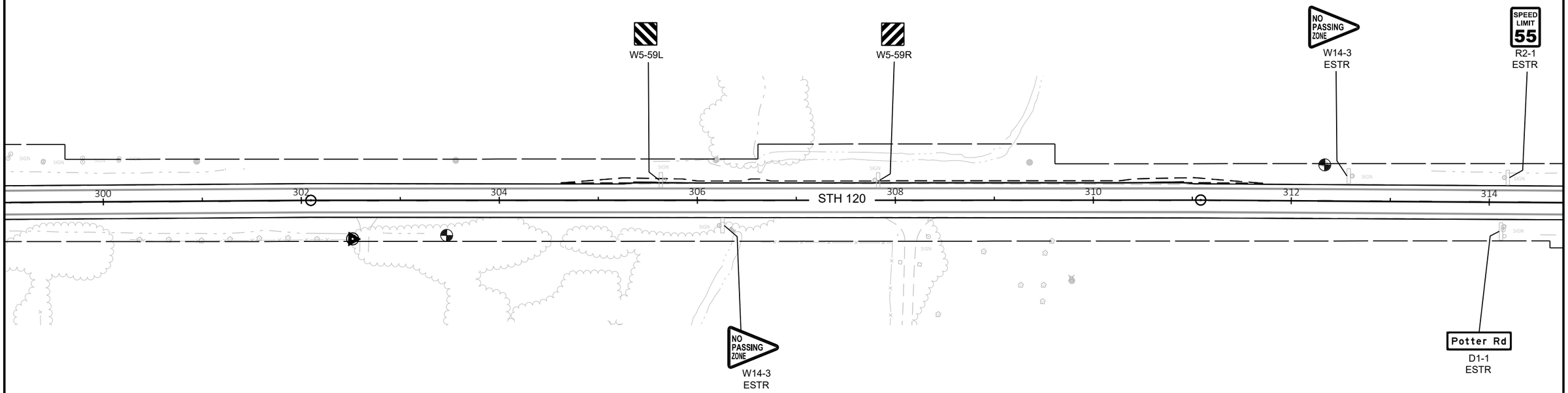
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 18 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 67	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 18

PLOT DATE : 12/20/2022 3:33 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

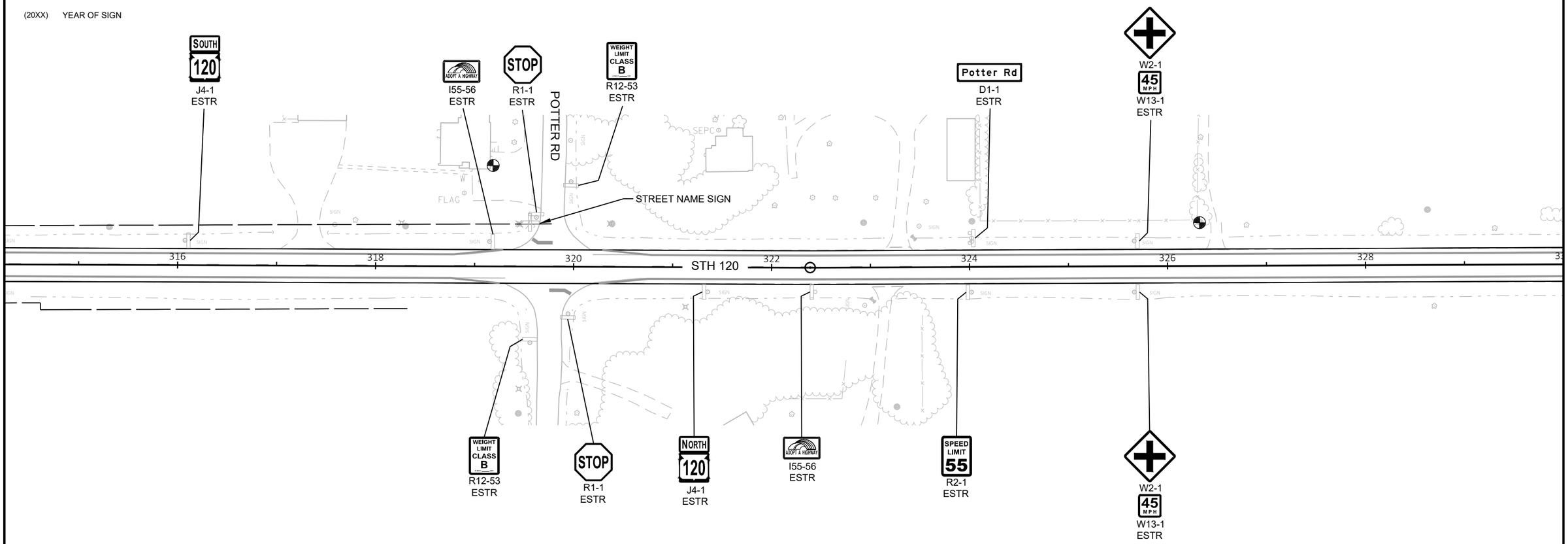
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 19 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 68	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 19

PLOT DATE : 12/20/2022 3:33 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

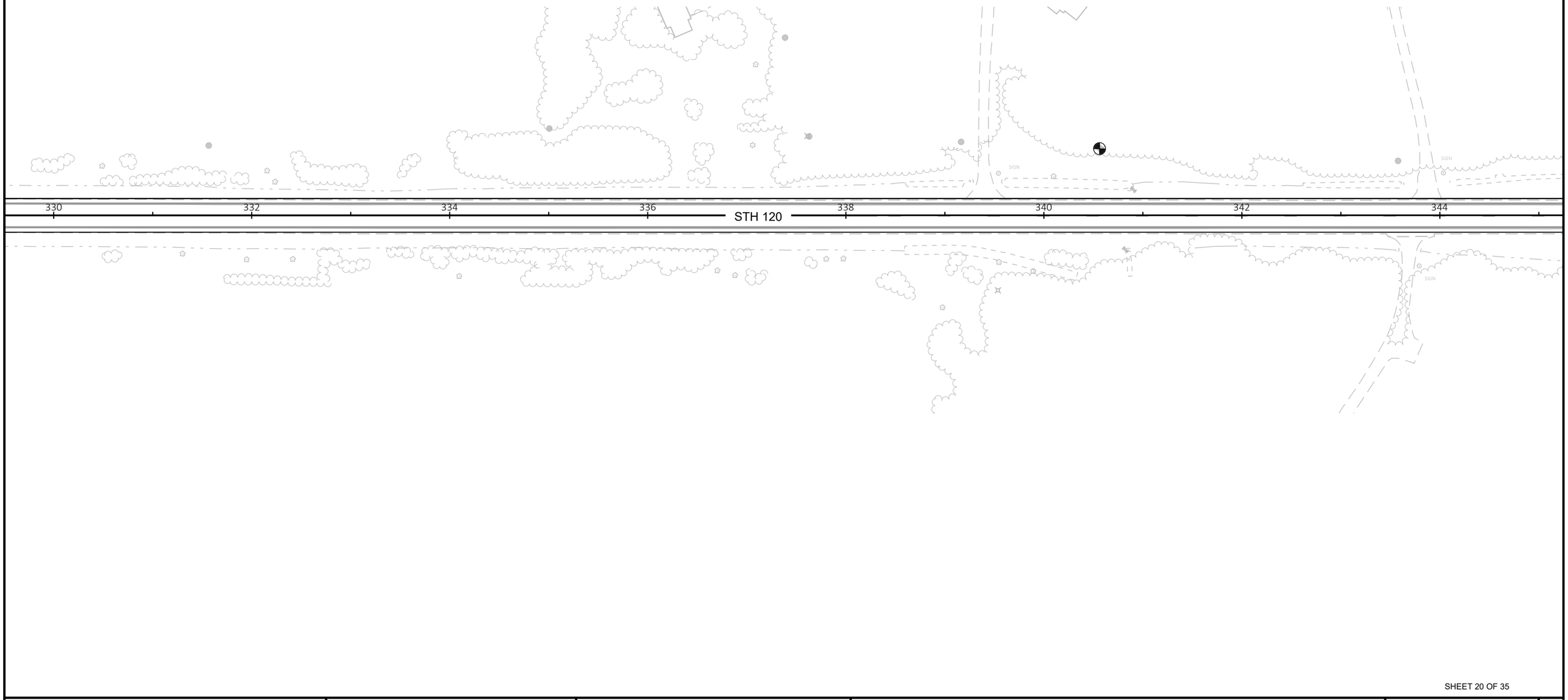
2

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

NO SIGNS
THIS SHEET

N



SHEET 20 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 69	E

FILE NAME : N:\PDS\C3D\CAD\369400001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 20

PLOT DATE : 12/20/2022 3:34 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

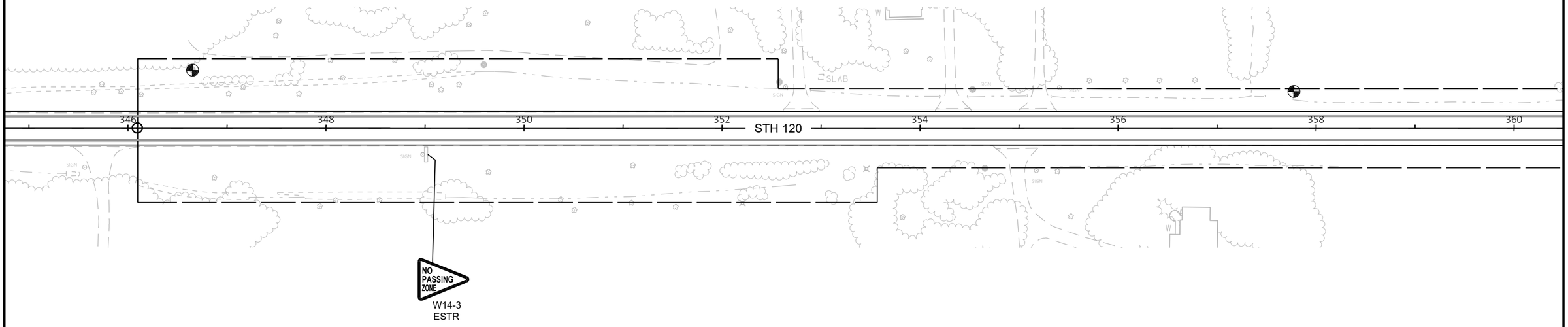
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 21 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 70	E

FILE NAME : N:\PDS\C3D\CAD\369400001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 21

PLOT DATE : 12/20/2022 3:34 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

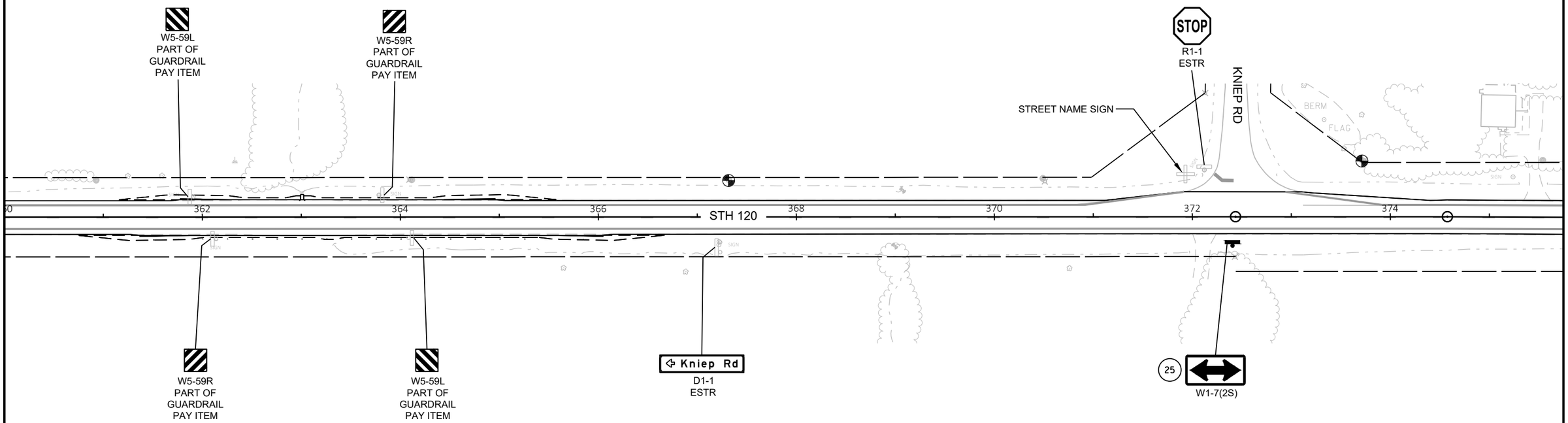
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 22 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 71	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 22

PLOT DATE : 12/20/2022 3:35 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

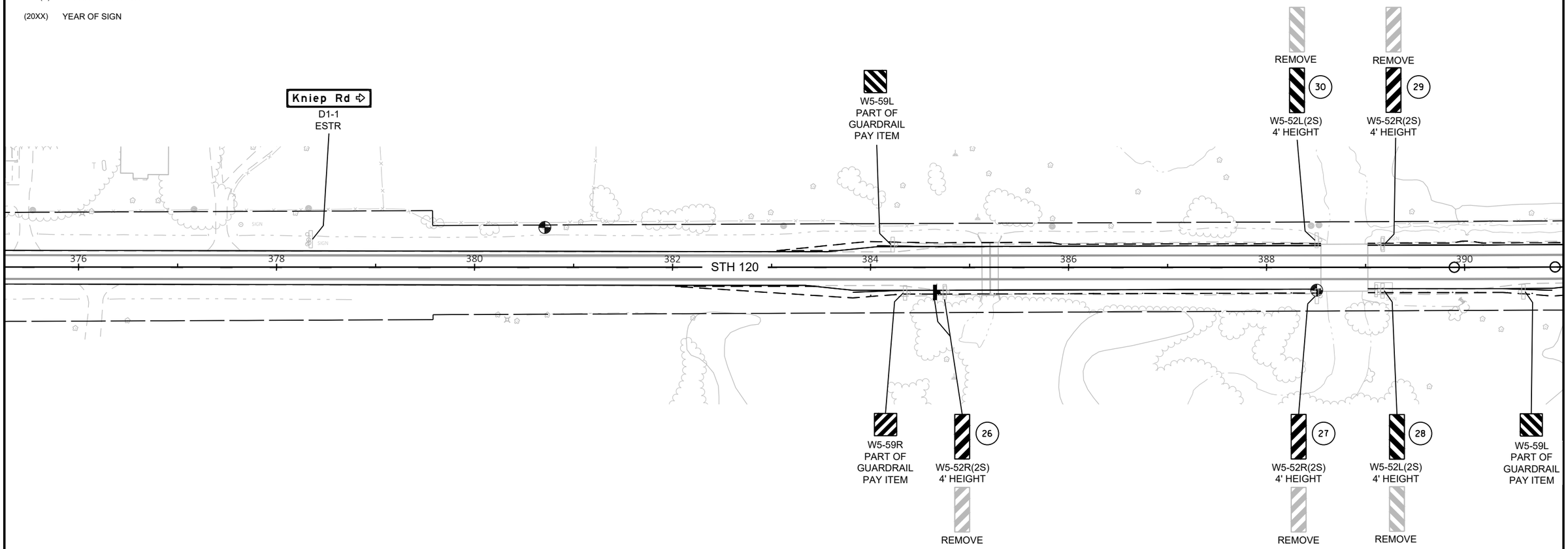
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
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- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



2

SHEET 23 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 72	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 23

PLOT DATE : 12/20/2022 3:35 PM 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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

REMOVE

31

W5-52R(2S)
4' HEIGHT

W5-59R
PART OF
GUARDRAIL
PAY ITEM

W5-59L
PART OF
GUARDRAIL
PAY ITEM

NO PASSING ZONE

W14-3
ESTR

392 394 396 398 STH 120 400 402 404 406

RIPRAP

W5-59R
PART OF
GUARDRAIL
PAY ITEM

32

W5-52R(2S)
4' HEIGHT

REMOVE

SHEET 24 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 73	E

FILE NAME : N:\PDS\C3D\CAD\369400001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 24

PLOT DATE : 12/20/2022 3:35 PM 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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

REMOVE

33

W5-52R(2S)
4' HEIGHT

W5-59R
PART OF
GUARDRAIL
PAY ITEM

406 408 410 412 STH 120 414 416 418 420

W5-59L
PART OF
GUARDRAIL
PAY ITEM

SHEET 25 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 74	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 25

PLOT DATE : 12/20/2022 3:36 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

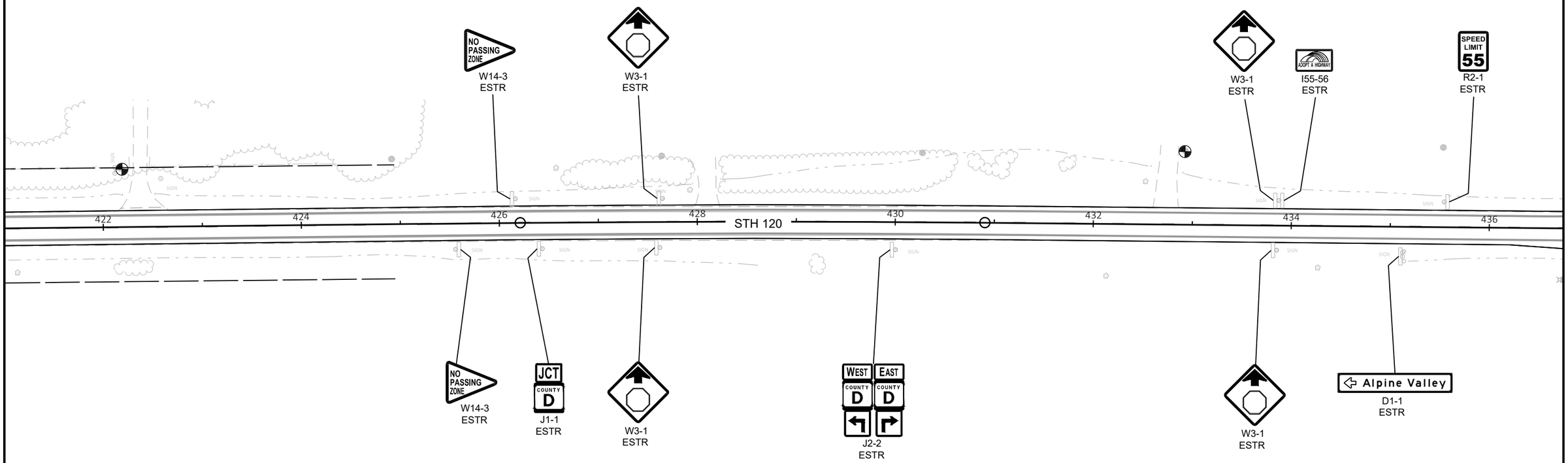
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 26 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 75	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 26

PLOT DATE : 12/20/2022 3:36 PM 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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

CTH D

SOUTH 120 — J4-1 ESTR

DO NOT ENTER — R5-1 ON L.P. ESTR

STOP — R1-1 ALL WAY — R1-3P ESTR

50 / 50A — STOP — R1-1 ALL WAY — R1-3P MOVE

51 — W12-1D 2' MOUNT HEIGHT MOVE

STOP — R1-1 ALL WAY — R1-3P ESTR

ALTERNATE NORTH DESIGNATED 43 — J3-1 ESTR

EAST COUNTY D / WEST COUNTY D — J3-2 ESTR

EAST COUNTY D / WEST COUNTY D — J2-2 ESTR

W FLAG

W3-1 ESTR

Alpine Valley 34 — D1-1 SIGN MISSING

JCT COUNTY D — JX-X ESTR

438 440 442 444 STH 120 446 448 450

52 / 52A / 53 / 53A — STOP — R1-1 ALL WAY — R1-3P MOVE

WEST COUNTY D / EAST COUNTY D — J3-2 ESTR

STOP — R1-1 ALL WAY — R1-3P ESTR

STOP — R1-1 ALL WAY — R1-3P ESTR

NORTH 120 — J4-1 ESTR

ADOPT A HIGHWAY — I55-56 ESTR

SPEED LIMIT 55 — R2-1 ESTR

W3-1 ESTR

49 / 49A — STOP — R1-1 ALL WAY — R1-3P MOVE

STOP — R1-1 ALL WAY — R1-3P ESTR

SOUTH 120 / NORTH 120 — J3-2 ESTR

CTH D

SHEET 27 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 76	E

FILE NAME : N:\PDS\C3D\CAD\369400001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 27

PLOT DATE : 12/22/2022 6:53 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

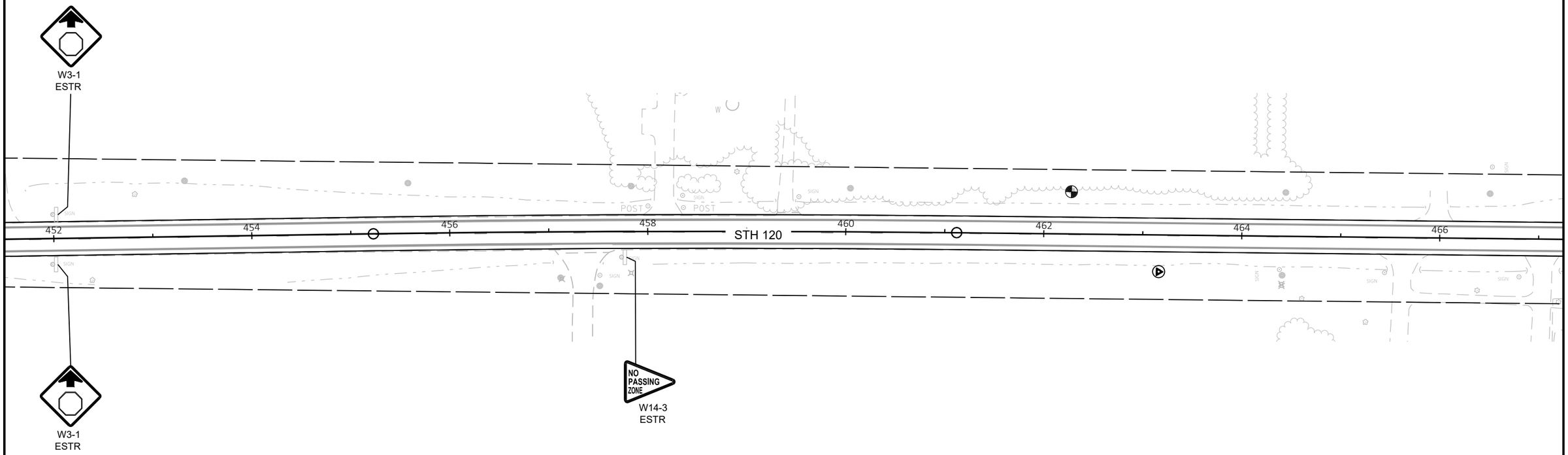
2

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



2

SHEET 28 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 77	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 28

PLOT DATE : 12/20/2022 3:37 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

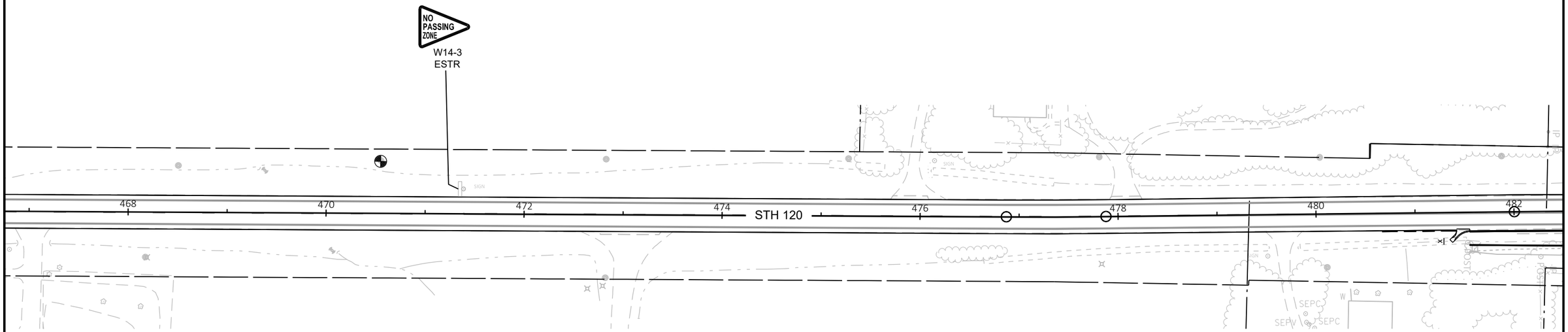
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- (20XX) YEAR OF SIGN

N



2

SHEET 29 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 78	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 29

PLOT DATE : 12/20/2022 3:38 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

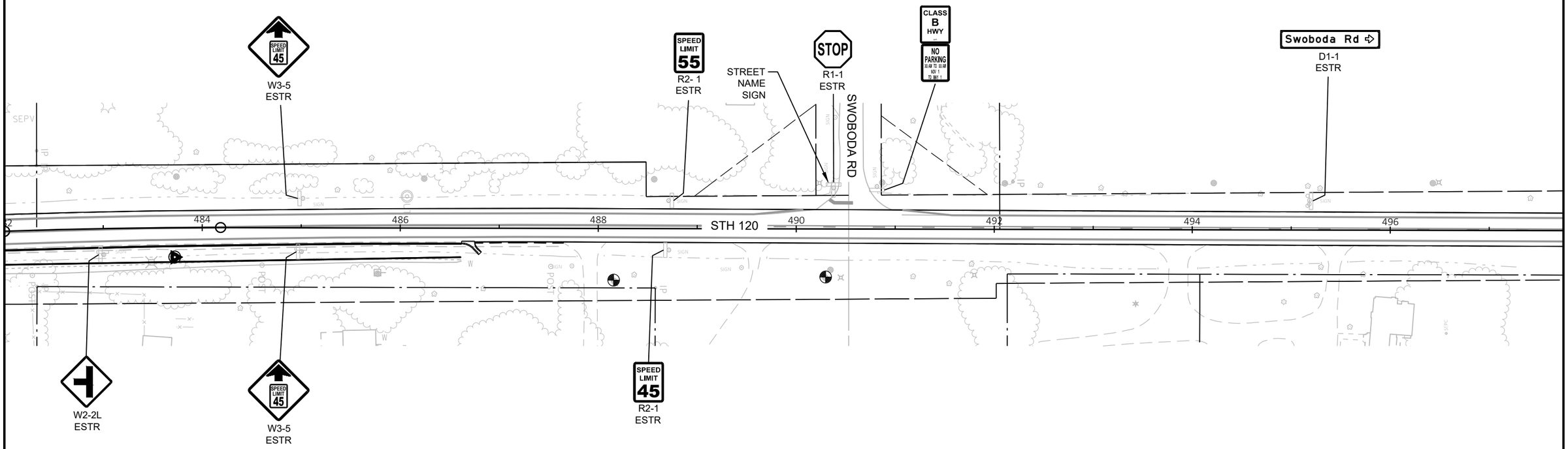
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 30 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 79	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 30

PLOT DATE : 12/20/2022 3:38 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

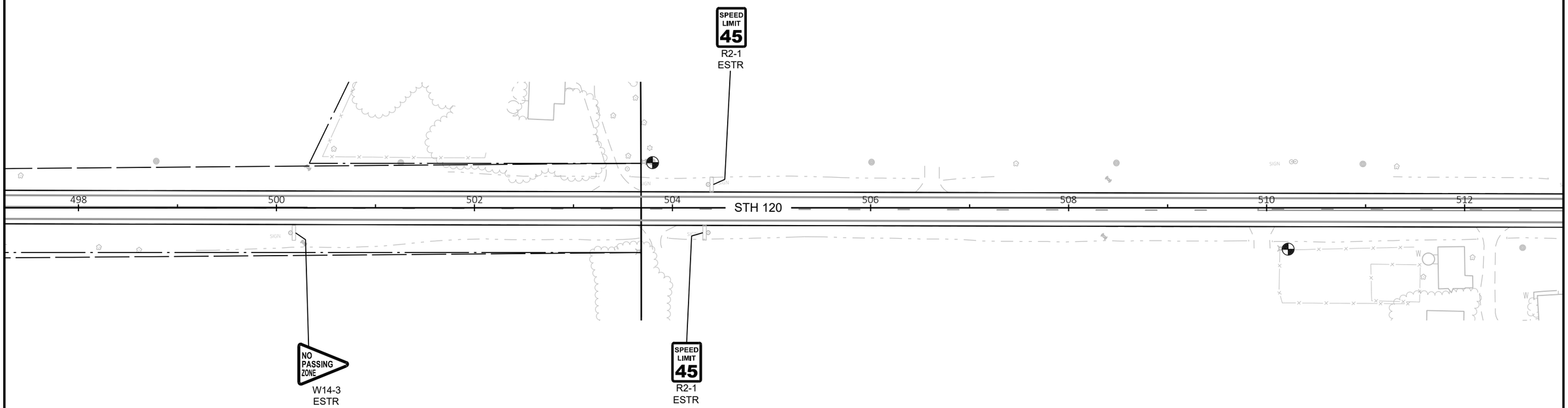
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



2

SHEET 31 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 80	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 31

PLOT DATE : 12/20/2022 3:38 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

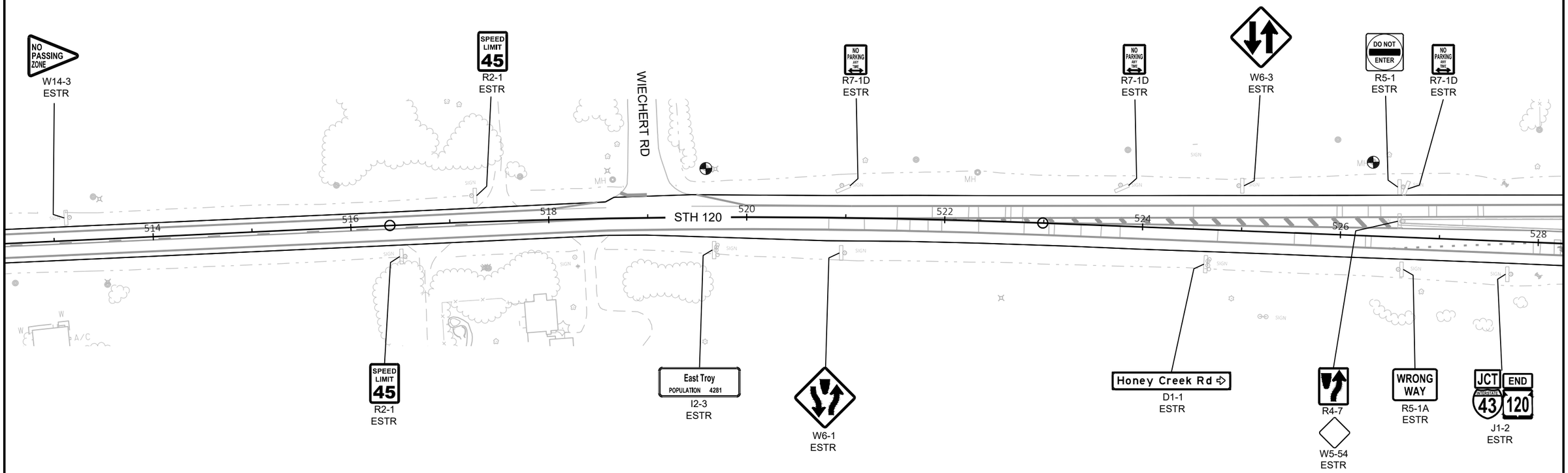
WISDOT/CADDS SHEET 42

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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



SHEET 32 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 81	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 32

PLOT DATE : 12/20/2022 3:39 PM 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
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

IH 43 OFF RAMP

SEE SHEET 33A FOR SIGNS AT THE RAMP

IH 43

IH 43

STH 120

STH 120

528 530 532 534 536 538 540 542

HONEY CREEK RD

IH 43 ON RAMP

RIPRAP

SIGNS

MH

POST

WRONG WAY
R5-1A ESTR

W6-2 ESTR

ONE WAY
R6-2L(2S) ESTR

NO PARKING ANY TIME
R7-1D ESTR

DO NOT ENTER
R5-1 ESTR

Lake Geneva 13
D2-1 ESTR

WRONG WAY
R5-1A ESTR

SPEED LIMIT 45
R2-1 ESTR

NO PARKING ANY TIME
R7-1L ESTR

ALTERNATE INTERSTATE 43 SOUTH 120
JX-X ESTR

Honey Creek Rd
D1-1 ESTR

Milwaukee
D1-1 ESTR

DO NOT ENTER
R5-1 ESTR

STREET NAME SIGNS

R4-7 ESTR

STOP
R1-1

DIVIDED HIGHWAY
R6-3 ESTR

SOUTH INTERSTATE 43 NORTH INTERSTATE 43
J2-2 ESTR

Beloit
Milwaukee
D1-2 ESTR

WRONG WAY
R5-1A ESTR

RAMP CLOSED
USE
ALT ROUTE
R11-54F ESTR

SOUTH INTERSTATE 43
J2-1 ESTR

Beloit
D1-1 ESTR

SHEET 33 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 82	E

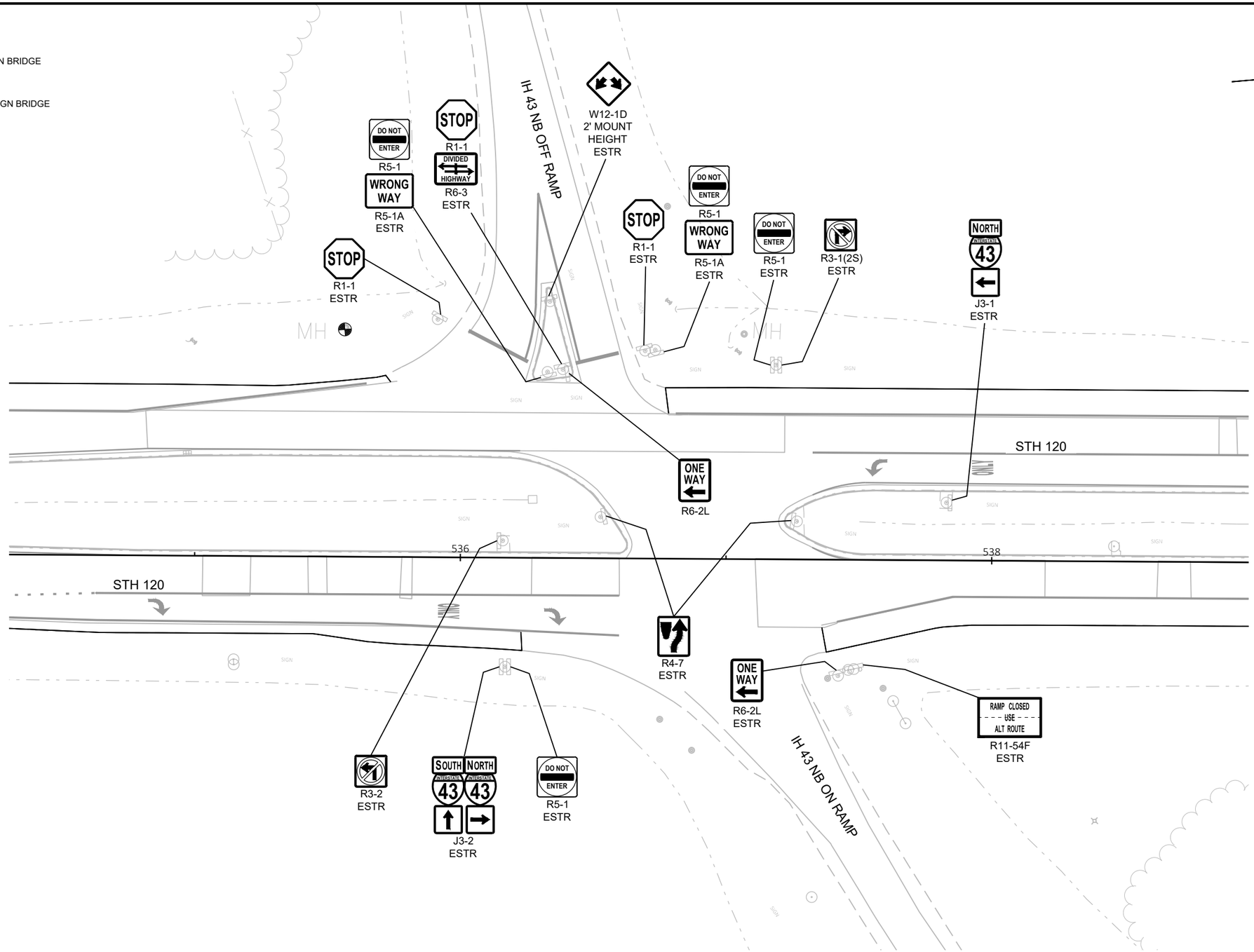
FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 33

PLOT DATE : 12/20/2022 3:39 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



SHEET 33A OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 83	E

FILE NAME : N:\PDS\C3D\CAD\369400001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 33A

PLOT DATE : 12/20/2022 3:40 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N

2

IH 43 ON RAMP

SEE SHEET 34A FOR SIGNS AT THE RAMP

O'LEARY LN

STREET NAME SIGNS

NORTH INTERSTATE 43 J2-1 ESTR

I55-56 ESTR

Milwaukee / Beloit D1-2 ESTR

DEAD END W14-1 ESTR

STOP R1-1

DIVIDED HIGHWAY R6-3 ESTR

DO NOT ENTER R5-1 ESTR

WRONG WAY R5-1A ESTR

NORTH INTERSTATE 43 / SOUTH INTERSTATE 120 / SOUTH INTERSTATE 43 J2-3 ESTR

R4-7

W5-54 ESTR

DO NOT PASS ESTR

544 546 548 550 552 554 556 558

STH 120

STH 120

IH 43

WRONG WAY R5-1A ESTR

IH 43 OFF RAMP

SPEED LIMIT 35 R2-1 ESTR

WRONG WAY R5-1A ESTR

WINTER PARKING ORDINANCE ESTR

DO NOT ENTER R5-1 ESTR

R4-7 ESTR

W6-2 ESTR

WRONG WAY R5-1A ESTR

SPEED LIMIT 25 W3-5 ESTR

DO NOT ENTER R5-1 ESTR

SHEET 34 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 84	E

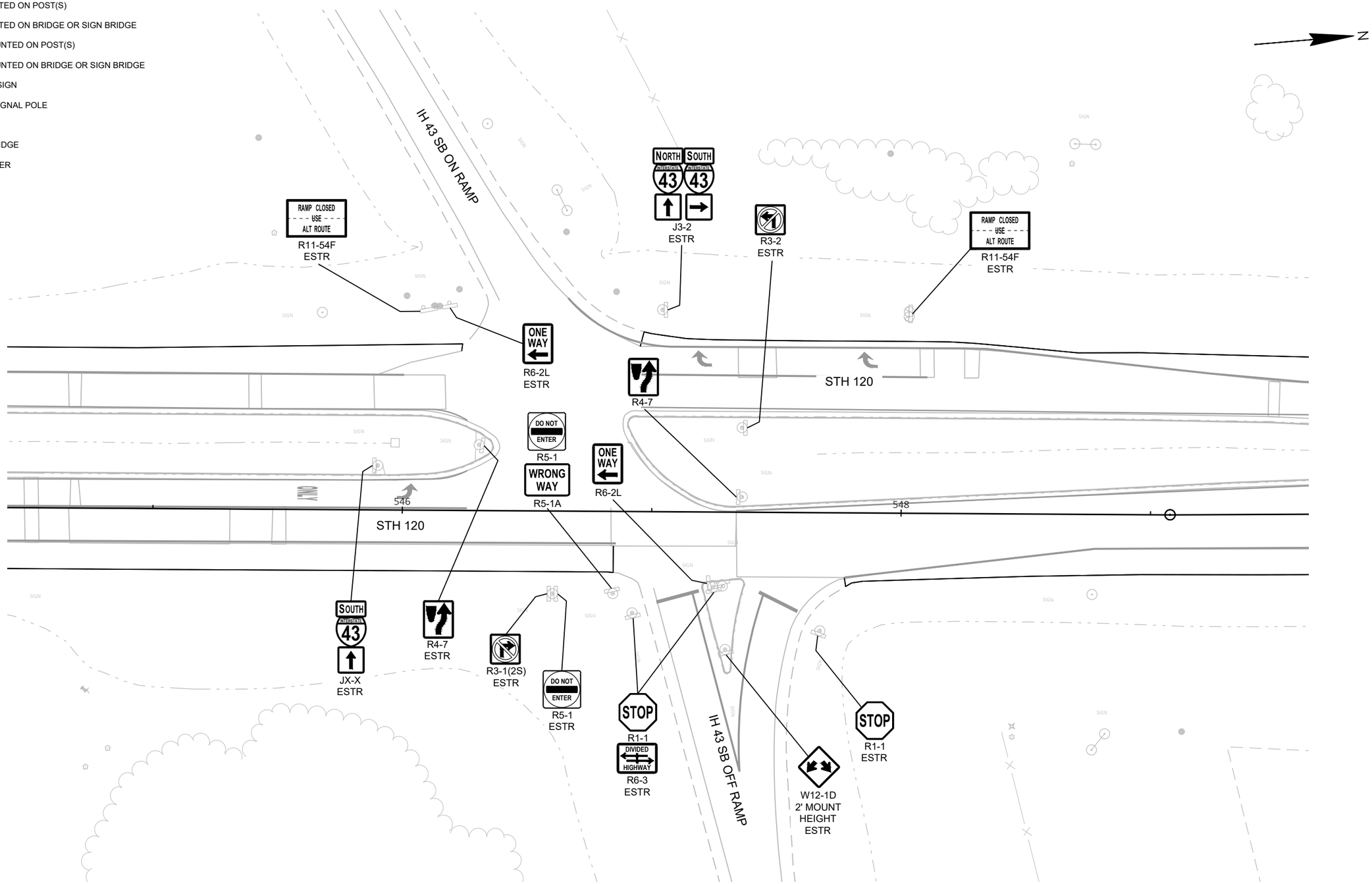
FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 34

PLOT DATE : 12/20/2022 3:40 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



SHEET 34A OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 85	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 34A

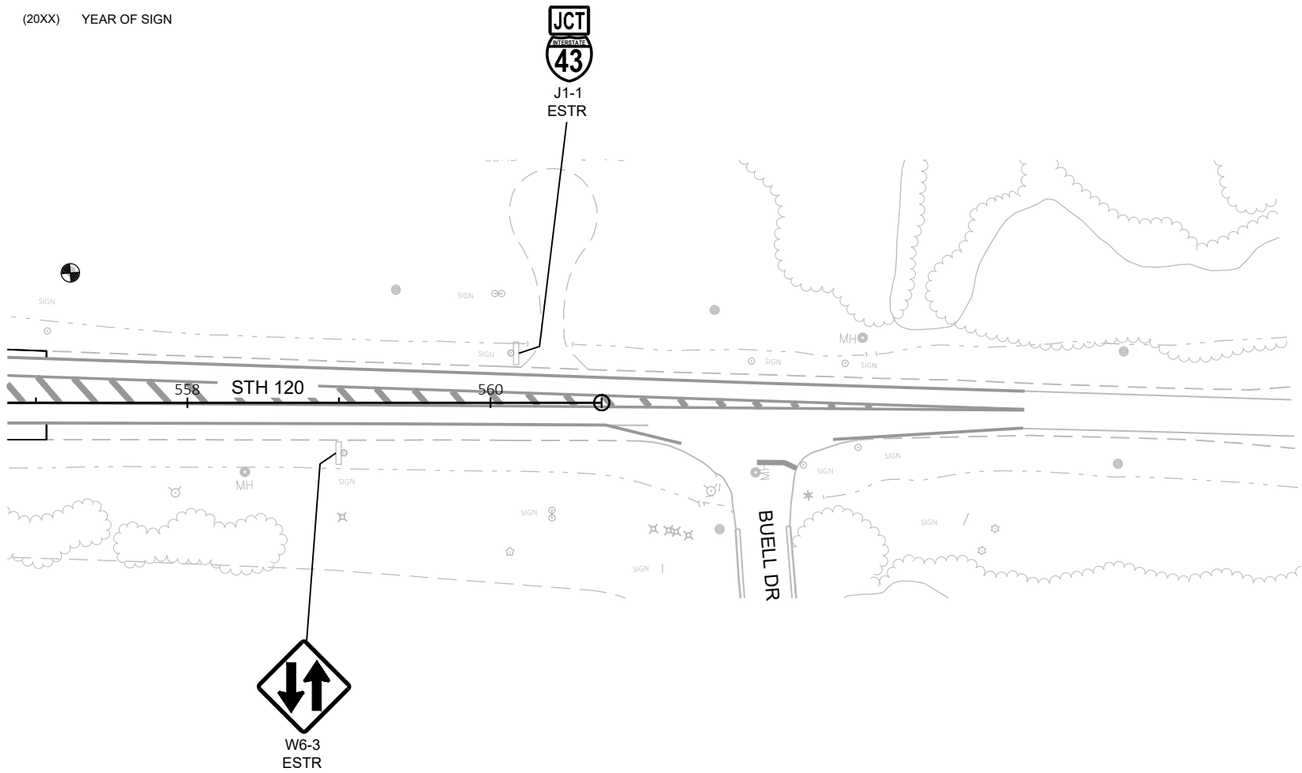
PLOT DATE : 12/20/2022 3:41 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

N



2

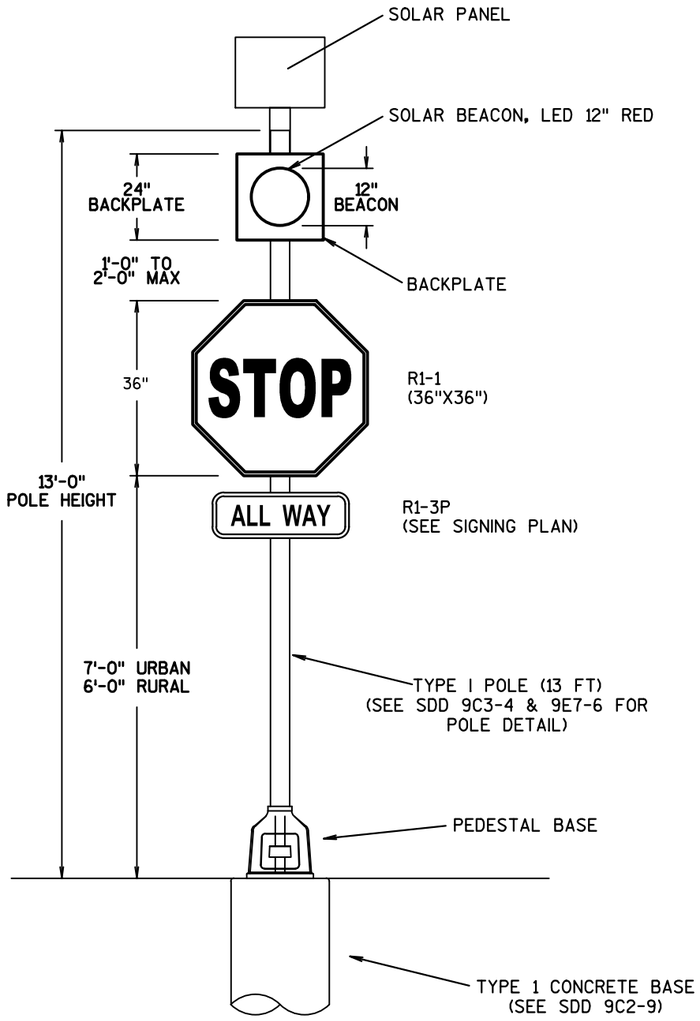
SHEET 35 OF 35

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PERMANENT SIGNING	SHEET 86	E

FILE NAME : N:\PDS\C3D\CAD\36940001\SIGN\023201_PS_3694-00-71.DWG
LAYOUT NAME - 35

PLOT DATE : 12/20/2022 3:41 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



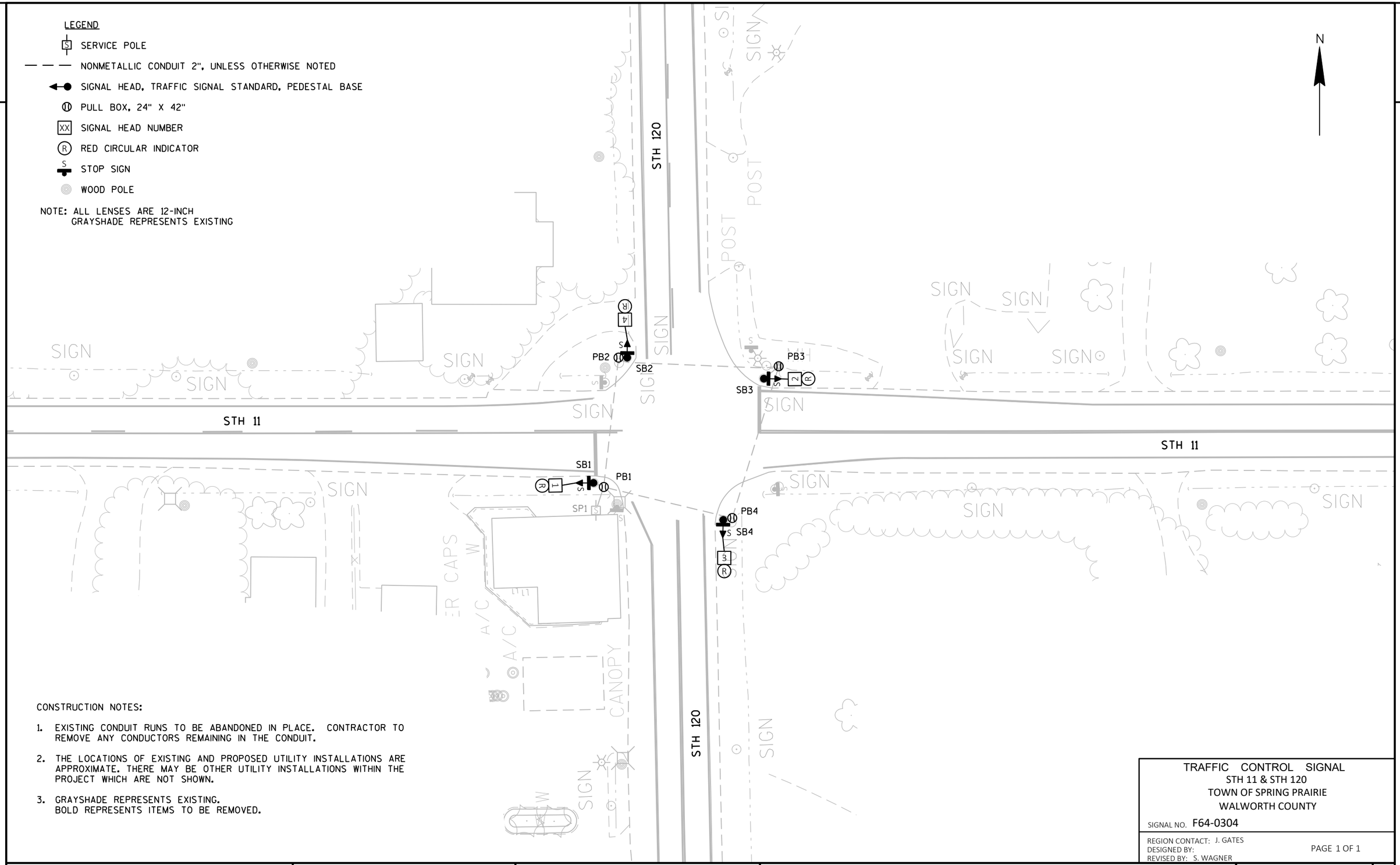
13' SOLAR BEACON ASSEMBLY
(STOP SIGN APPLICATION)

2

LEGEND

- SERVICE POLE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- S STOP SIGN
- WOOD POLE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING


N
STH 120
STH 11
STH 11
STH 120
POST
POST
SIGN
SIGN
SIGN

2



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 89	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-pm

PLOT DATE : 1/17/2023 8:33 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 90 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024502-pm
PLOT DATE : 1/17/2023 8:33 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 91	E

2

MATCHLINE STA. 130+50

N

131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00 142+00 143+00 144+00 145+00

YS +86 W4

Y STH 120 DY W4

MATCHLINE STA. 145+50

2

PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

N

MATCHLINE STA. 145+50

146+00 147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00 157+00 158+00 159+00 160+00

STH 120

W4 +41 +91 SL +90 +40

DY W4 +71 +21 SL +22 +72

PRAIRIE ROAD

MATCHLINE STA. 160+50

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 92 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024504-pm

PLOT DATE : 1/17/2023 8:34 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 93 E

2

MATCHLINE STA. 190+50

191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00 204+00 205+00

Y +73 W4 YS YS W4 +80 YS Y

STH 120

N

MATCHLINE STA. 205+50

PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

MATCHLINE STA. 205+50

206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00 220+00

Y YS +52 DY +56 W4 W4 Y YS

STH 120

N

MATCHLINE STA. 220+50

2

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 94	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024506-pm

PLOT DATE : 1/17/2023 8:34 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 95 E

2

MATCHLINE STA. 250+50

MATCHLINE STA. 265+50

N

251+00 252+00 253+00 254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00 262+00 263+00 264+00 265+00

YS W4 YS YS

STH 120

+78 W4 Y +02

PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

MATCHLINE STA. 265+50

MATCHLINE STA. 280+50

N

266+00 267+00 268+00 269+00 270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00

YS Y W4

STH 120

+96 YS W4 +01 YS

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 96 E

2

MATCHLINE STA. 280+50

281+00 282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00

YS YS +47 Y W4 W4 YS +95

STH 120

N

MATCHLINE STA. 295+50

296+00 297+00 298+00 299+00 300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00

YS +06 Y YS W4 W4 +10 YS

STH 120

N

MATCHLINE STA. 295+50

MATCHLINE STA. 310+50

2

PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 97	E



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 98	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024510-pm
PLOT DATE : 1/17/2023 8:35 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 99 E

2



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

2

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 100 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024512-pm

PLOT DATE : 1/17/2023 8:35 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

2

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 101	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024513-pm
PLOT DATE : 1/17/2023 8:35 AM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

MATCHLINE STA. 430+50

MATCHLINE STA. 445+50

STH 120

CTH D

N

W4 W4 YS Y W4 DY +68 +21 +19 W8 W4 DY +53 +78 +49 W4 +75 +46 W4 DY +11 +10 W8 SL (TYP.) MARKING CURB EPOXY (TYP.) +54 MARKING ISLAND NOSE EPOXY (TYP.) W4 W8 DY

431+00 432+00 433+00 434+00 435+00 436+00 437+00 438+00 439+00 440+00 441+00 442+00 443+00 444+00 445+00

SEE STANDARD DETAIL DRAWING "PAVEMENT MARKINGS, MEDIAN ISLAND NOSE" FOR ADDITIONAL INFORMATION.

PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

N

MATCHLINE STA. 445+50

MATCHLINE STA. 460+50

STH 120

Y W4 DY +61 YS W4 +87 YS

446+00 447+00 448+00 449+00 450+00 451+00 452+00 453+00 454+00 455+00 456+00 457+00 458+00 459+00 460+00

2

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 102	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024514-pm

PLOT DATE : 1/17/2023 8:35 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

2

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 103	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024515-pm
PLOT DATE : 1/17/2023 8:35 AM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

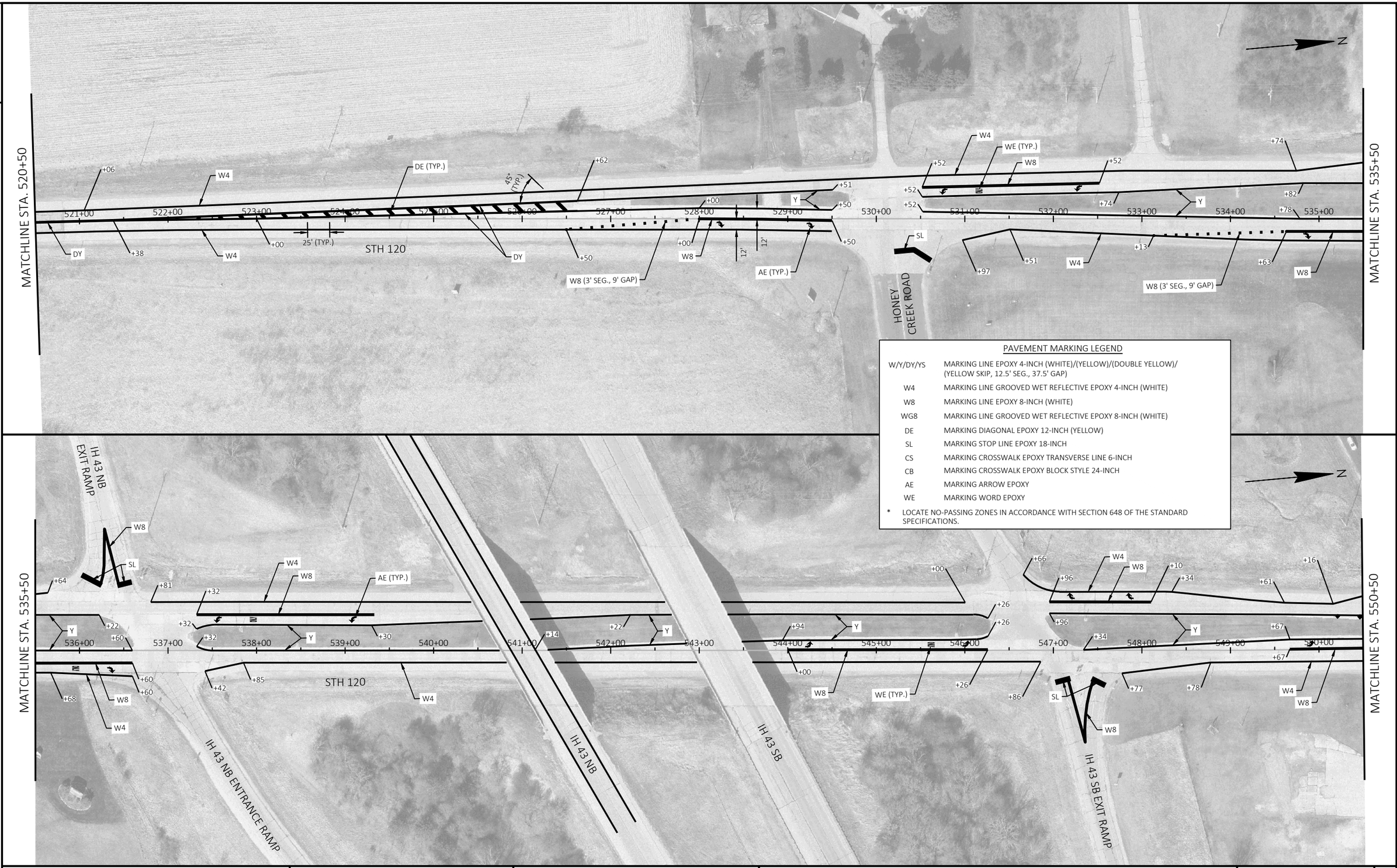
W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 104 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024516-pm
PLOT DATE : 1/17/2023 8:36 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

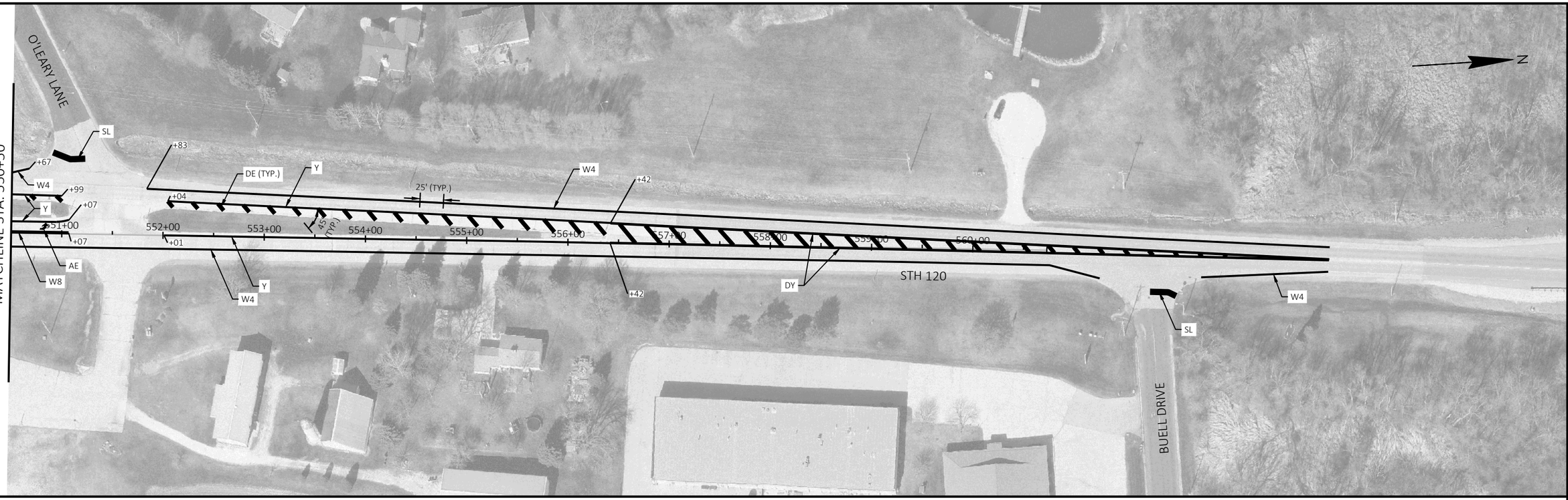
W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 105 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024517-pm
PLOT DATE : 1/17/2023 8:36 AM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

W/Y/DY/YS	MARKING LINE EPOXY 4-INCH (WHITE)/(YELLOW)/(DOUBLE YELLOW)/ (YELLOW SKIP, 12.5' SEG., 37.5' GAP)
W4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
W8	MARKING LINE EPOXY 8-INCH (WHITE)
WG8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
DE	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
SL	MARKING STOP LINE EPOXY 18-INCH
CS	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
CB	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
AE	MARKING ARROW EPOXY
WE	MARKING WORD EPOXY

* LOCATE NO-PASSING ZONES IN ACCORDANCE WITH SECTION 648 OF THE STANDARD SPECIFICATIONS.

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING	SHEET 106	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024518-pm
PLOT DATE : 1/17/2023 8:36 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



2

PAVEMENT MARKING LEGEND	
W	MARKING LINE EPOXY 4-INCH (WHITE)
Y	MARKING LINE EPOXY 4-INCH (YELLOW)

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PAVEMENT MARKING - IH-43	SHEET 107	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\024502-PM.DWG
LAYOUT NAME - 024519-pm

PLOT DATE : 1/17/2023 8:36 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ##########

GENERAL NOTES FOR TRAFFIC CONTROL

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

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

"WO" SERIES SIGNS ARE "W" SERIES EXCEPT THE BACKGROUND IS ORANGE.

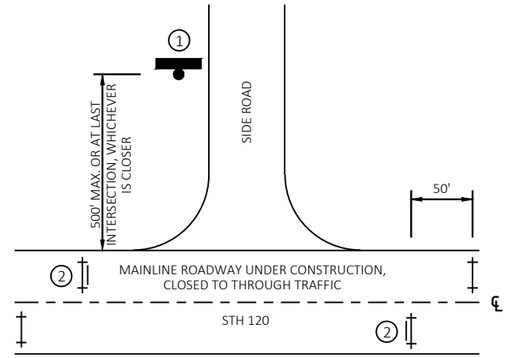
ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

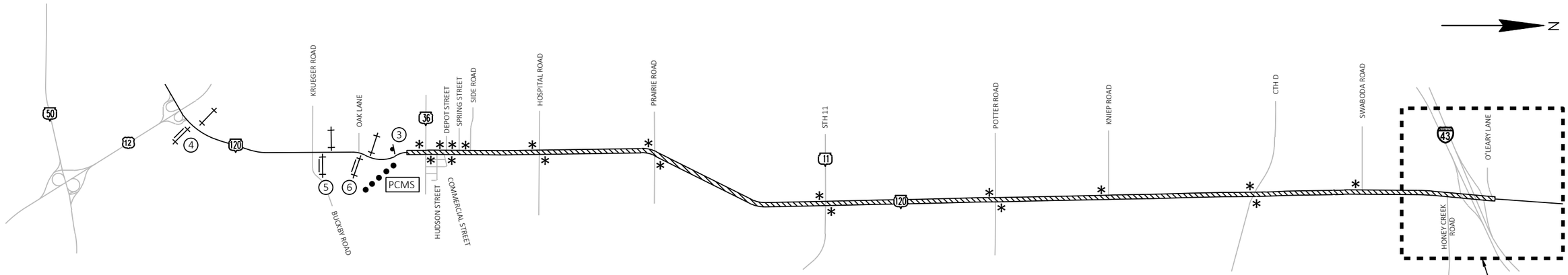
FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWINGS:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
"BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

LEGEND

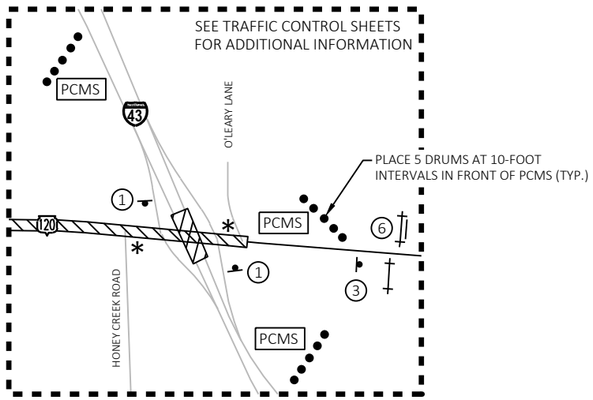
- SIGNS MOUNTED ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- WORK ZONE
- TRAFFIC CONTROL DRUMS
- PCMS — TRAFFIC CONTROL SIGNS PCMS
- PCMS MESSAGE 3 DAYS PRIOR TO BEGINNING CONSTRUCTION — PANEL 1: ROAD WORK BEGINS; PANEL 2: [START DATE/TIME]
- PCMS MESSAGE 3 DAYS PRIOR TO BEGINNING EACH CONSTRUCTION STAGE — PANEL 1: NEW TRAFFIC PATTERN; PANEL 2: [START DATE/TIME]



* TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL
(MATCH LAYOUT FOR EAST SIDE OF STH 120)



DETAIL A



1. ROAD WORK AHEAD — W20-1A
2. ROAD CLOSED TO THRU TRAFFIC — R11-4, 60"X30"
3. END ROAD WORK — G20-2A, 48"X24"
4. ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3, 60"X30"
5. ROAD CLOSED 1 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3, 60"X30"
6. ROAD CLOSED 1/2 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3, 60"X30"

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - ADVANCED WARNING SIGNING	SHEET 108	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025001-AW.DWG
LAYOUT NAME - 025001-aw
PLOT DATE : 12/22/2022 10:20 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1:0.9 MILES
WISDOT/CADDS SHEET 42

2

N

42+00

43+00

44+00

45+00

46+00

47

25' (TYP.)

MATCHLINE STA. 47+00

500'

ROAD WORK AHEAD
W20-1A

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

LANE CLOSED
R11-2L
48"X30"

SIGN

SIGN

SIGN

SIGN

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- SAWING ASPHALT/SAWING CONCRETE (xxxx)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- MARKING REMOVAL
- DIRECTION OF TRAFFIC

REFER TO THE FOLLOWING STANDARD DETAIL DRAWING FOR ADDITIONAL INFORMATION:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - STH 36 STAGE 1	SHEET 109	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025101-S1-TC.DWG
LAYOUT NAME - 025101-s1-tc
PLOT DATE : 12/22/2022 10:21 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

STH 120

50+00

49+00

48+00

W SIGNS

WALWORTH STREET

N

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

ROAD WORK AHEAD
W20-1A

W20-4R

200'

4YT
(3' SEG., 9' GAP)

12+00 A

13+00 A

14+00 A

15+00 A

15+59 A
8.0' LT

16+52 A
0.7' LT

17+00 A

STH 36

3'

25' (TYP.)

14'

12'

4YT

4WT

10'
(TYP.)

STOP
R1-1
30"X30"

W01-4R

MATCHLINE STA. 47+00

REFER TO THE FOLLOWING STANDARD DETAIL DRAWING FOR ADDITIONAL INFORMATION:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- xxxx SAWING ASPHALT/SAWING CONCRETE
- 4WT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- MARKING REMOVAL
- DIRECTION OF TRAFFIC

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - STH 36 STAGE 1	SHEET 110	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025101-S1-TC.DWG
LAYOUT NAME - 025102-s1-tc

PLOT DATE : 12/22/2022 10:21 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 120

25' (TYP.)

50+00

49+00

48+00

47+00

WALWORTH STREET

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

SIDEWALK CLOSED
R9-9
24"X12"

ROAD WORK AHEAD
W20-1A

10' (TYP.)

12+00 A

13+00 A

14+00 A

15+00 A

16+00 A

17+00 A

STH 36

PERMANENT MARKING LINE (TYP.). SEE PAVEMENT MARKING PLANS FOR ADDITIONAL INFORMATION.

ONLY

REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
"TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"

SEE "TRAFFIC CONTROL - TEMPORARY PEDESTRIAN ACCOMMODATION" PLAN FOR ADDITIONAL INFORMATION.

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- SAWING ASPHALT/SAWING CONCRETE xxxx
- 4WT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- MARKING REMOVAL
- DIRECTION OF TRAFFIC

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - STH 36 STAGE 2	SHEET 111	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025101-S2-TC.DWG
LAYOUT NAME - 025101-s2-tc

PLOT DATE : 12/22/2022 10:21 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

TLE

R/W

48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00

STH 120

MATCHLINE STA. 55+50

TLE

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

STH 36

R/W

TLE

M4-60R
30"X24"

TEMPORARY PEDESTRIAN
SURFACE MATTING REQ'D (TYP.)

HUDSON STREET

TLE

M4-60L
30"X24"

R/W

WHITE RIVER
STATE TRAIL

N

SIDEWALK CLOSED
USE OTHER SIDE
R9-10
24"X12"

CONSTRUCT PATH IN
HALVES AND MAINTAIN A
MINIMUM 4-FOOT PATH
WIDTH AT ALL TIMES.

R/W

MATCHLINE STA. 55+50

56+00 57+00 58+00 59+00 60+00 61+00 62+00 63+00

STH 120

TEMPORARY PEDESTRIAN
SURFACE MATTING REQ'D (TYP.)

R/W

TLE

M4-60L
30"X24"

COMMERCIAL STREET

M4-60R
30"X24"

M4-60L
30"X24"

SIDEWALK CLOSED
USE OTHER SIDE
R9-10
24"X12"

R/W

CONSTRUCT PATH IN
HALVES AND MAINTAIN A
MINIMUM 4-FOOT PATH
WIDTH AT ALL TIMES.

LEGEND

- SIDEWALK CONSTRUCTION
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- TEMPORARY PEDESTRIAN ROUTE
- TEMPORARY PEDESTRIAN BARRICADE

SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

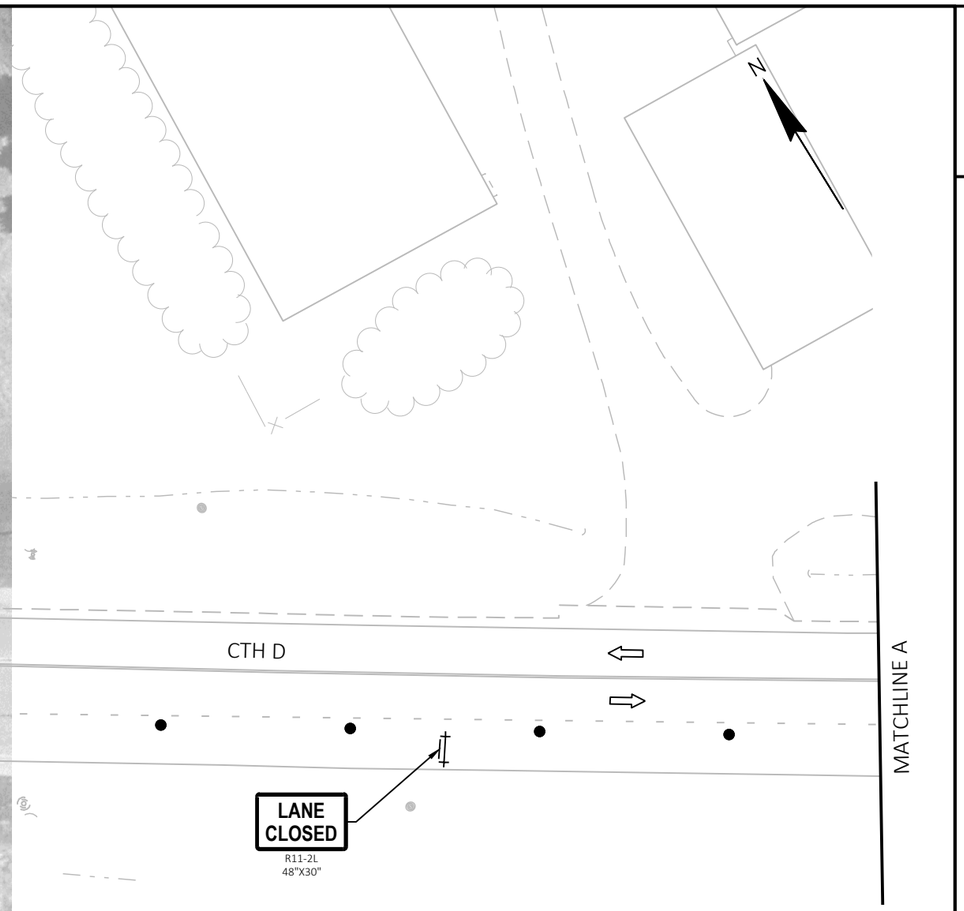
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - TEMPORARY PEDESTRIAN ACCOMMODATION	SHEET 112	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025102-TC.DWG
LAYOUT NAME - 025102-tc

PLOT DATE : 12/22/2022 10:21 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44





REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
"TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- xxxx SAWING ASPHALT/SAWING CONCRETE
- 4WT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- MARKING REMOVAL
- DIRECTION OF TRAFFIC

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - CTH D	SHEET 113	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - 025104-tc
PLOT DATE : 12/22/2022 10:22 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

MATCHLINE A

2

N

STH 120

441+00

440+00

439+00

50' (TYP.)

LANE CLOSED
R11-2L
48"X30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

10' (TYP.)

LANE CLOSED
R11-2L
48"X30"

25' (TYP.)

ROAD WORK AHEAD
W20-1A

120
M1-6
24"X24"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

CTH D

END ROAD WORK
G20-2A
48"X24"

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- SAWING ASPHALT/SAWING CONCRETE (xxxx)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- MARKING REMOVAL
- DIRECTION OF TRAFFIC

REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
"TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - CTH D	SHEET 114	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - 025105-tc

PLOT DATE : 12/22/2022 10:22 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- DIRECTION OF LOCAL TRAFFIC
- MARKING REMOVAL LINE

REFER TO THE FOLLOWING STANDARD DETAIL DRAWING FOR ADDITIONAL INFORMATION:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"



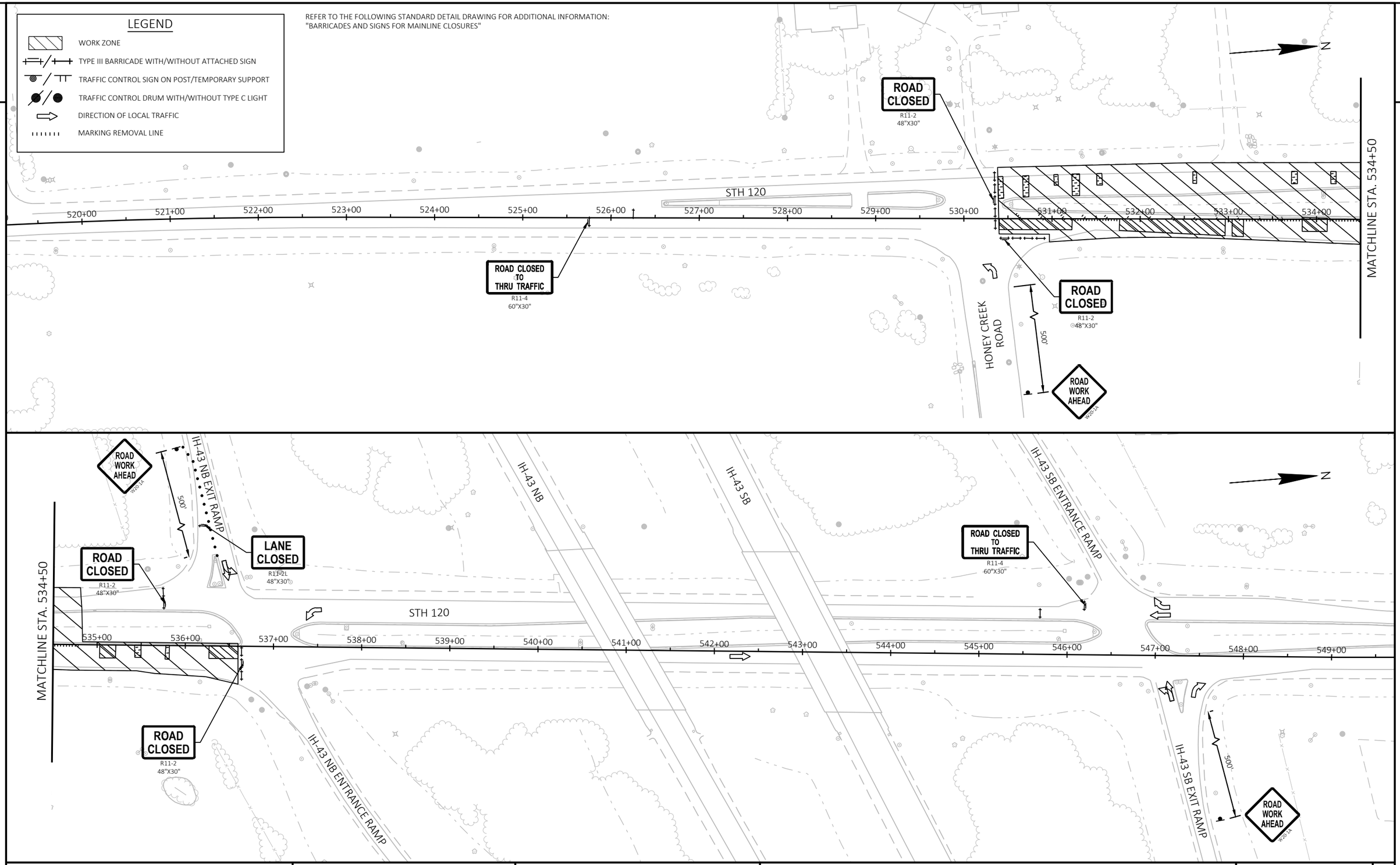
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - PAVEMENT REHAB STAGE 1	SHEET 115	E

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- DIRECTION OF LOCAL TRAFFIC
- MARKING REMOVAL LINE

REFER TO THE FOLLOWING STANDARD DETAIL DRAWING FOR ADDITIONAL INFORMATION:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"



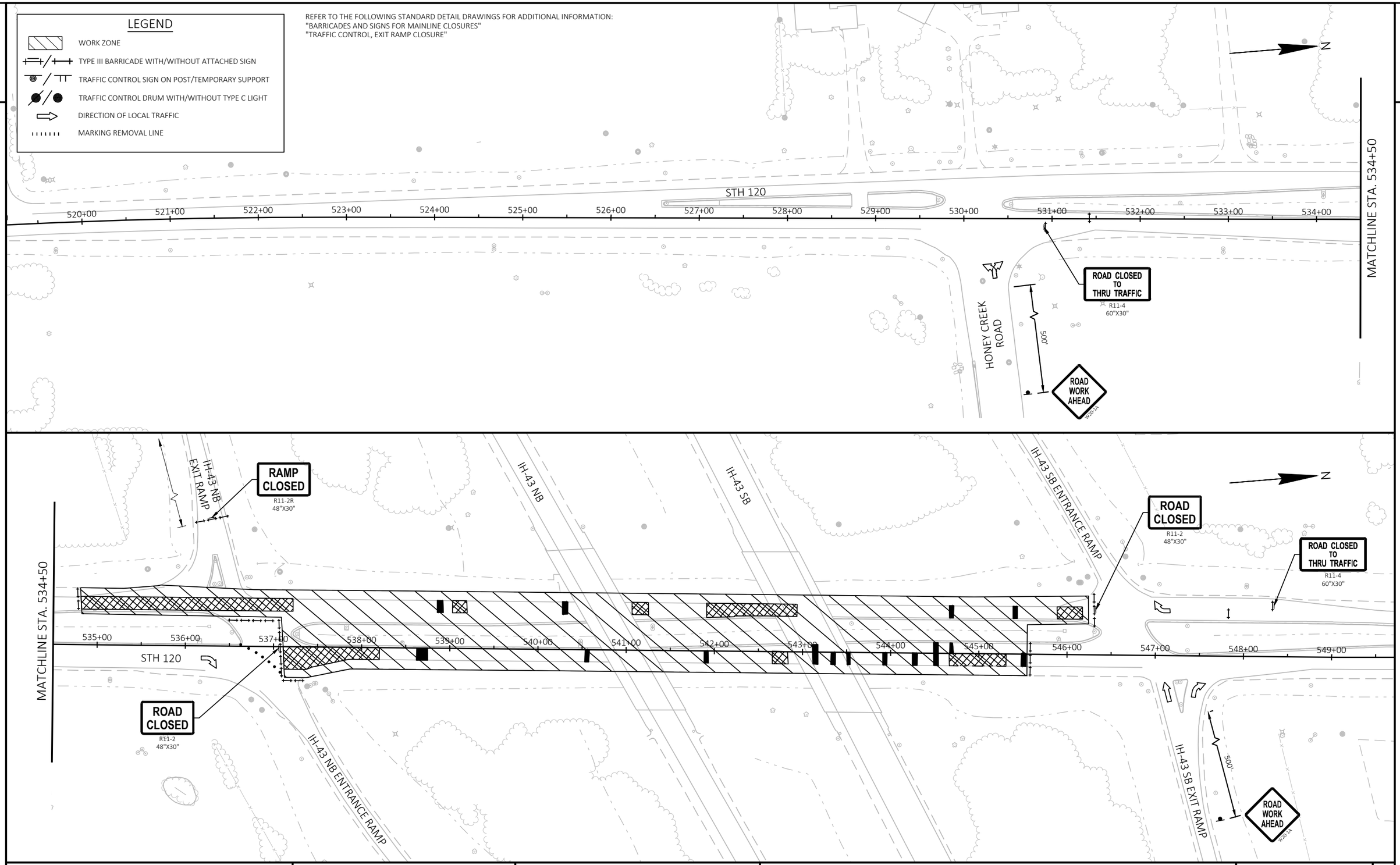
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - PAVEMENT REHAB STAGE 2	SHEET 116	E

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- DIRECTION OF LOCAL TRAFFIC
- MARKING REMOVAL LINE

REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
"TRAFFIC CONTROL, EXIT RAMP CLOSURE"



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - PAVEMENT REHAB STAGE 3	SHEET 117	E

2

ROAD WORK AHEAD
W20-1

500'

IH-43 NB EXIT RAMP

IH-43 NB

IH-43 SB

IH-43 SB ENTRANCE RAMP

N

ROAD CLOSED
R11-2
48"X30"

STH 120

534+00 535+00 536+00 537+00 538+00 539+00 540+00 541+00 542+00 543+00 544+00 545+00 546+00 547+00 548+00

MATCHLINE STA. 549+00

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

IH-43 NB ENTRANCE RAMP

RAMP CLOSED
R11-2R
48"X30"

IH-43 SB EXIT RAMP

O'LEARY LANE

MAINTAIN LOCAL ACCESS TO O'LEARY LANE AT ALL TIMES

N

MATCHLINE STA. 549+00

549+00 550+00 551+00 552+00 553+00 554+00 555+00 556+00 557+00 558+00 559+00 560+00

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

STH 120

BUELL DRIVE

LEGEND

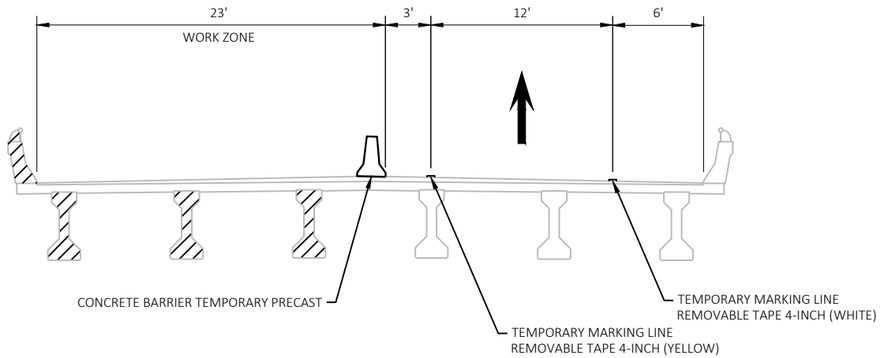
- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- DIRECTION OF LOCAL TRAFFIC
- MARKING REMOVAL LINE

REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
"TRAFFIC CONTROL, EXIT RAMP CLOSURE"

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - PAVEMENT REHAB STAGE 4	SHEET 118	E

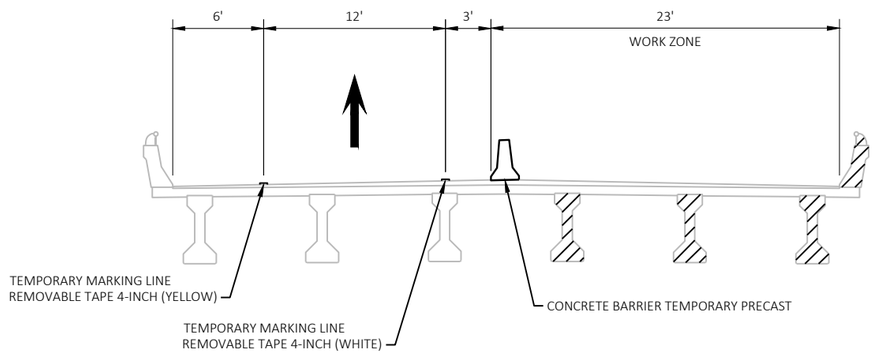
FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025103-S4-TC.DWG
LAYOUT NAME - 025103-s4-tc
PLOT DATE : 12/22/2022 10:24 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



STAGE 1 TYPICAL SECTION

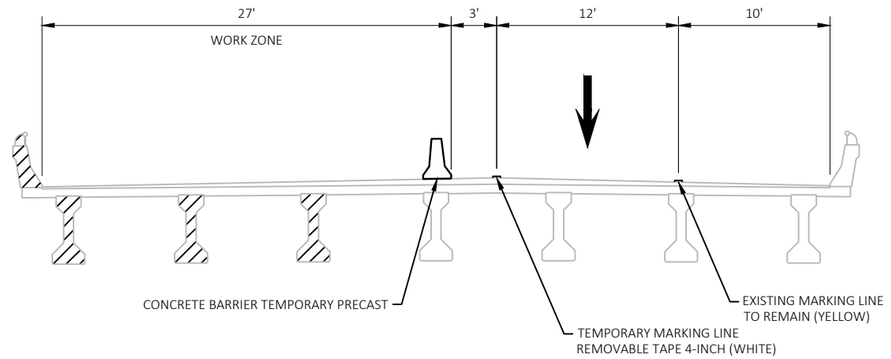
IH-43 NB
B-64-0090



STAGE 2 TYPICAL SECTION

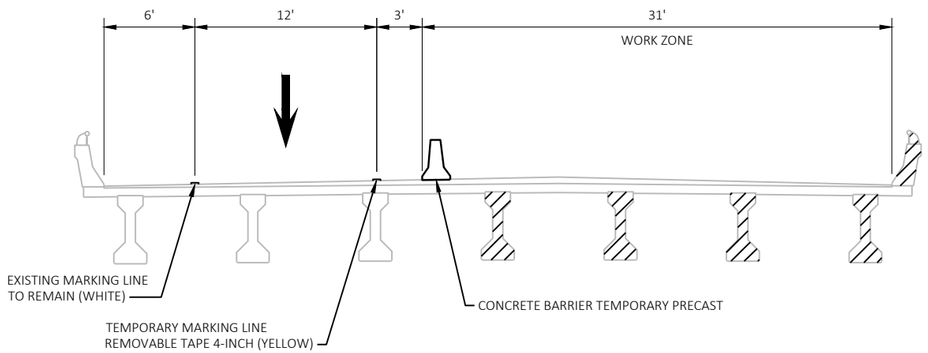
IH-43 NB
B-64-0090

2



STAGE 1 TYPICAL SECTION

IH-43 SB
B-64-0091



STAGE 2 TYPICAL SECTION

IH-43 SB
B-64-0091

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - TYPICAL SECTIONS	SHEET 120	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025110-TC-TS.DWG
LAYOUT NAME - 025100-ts-SB
PLOT DATE : 12/22/2022 10:24 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : ######
WISDOT/CADDS SHEET 42

2

2,600' 1,600' 1,000'

25' 500' 840' LANE CLOSURE TAPER

50' (TYP.) 4YT 50' (TYP.) 100' (TYP.)

640 NB 645 NB 650 NB

IH-43 NB

ROAD WORK 1 MILE W20-1F

LEFT LANE CLOSED 1/2 MILE W20-5SF

W09-2L

LANE CLOSED R11-2L 48"X30"

W03-4F

END ROAD WORK G20-2A 48"X24"

STH 120 NB EXIT RAMP

MATCHLINE STA. 112+00 NB

LEGEND

	WORK ZONE	4WT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
	TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4YT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
	TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT	8W	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT		TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
	DIRECTION OF TRAFFIC		MARKING REMOVAL LINE 4-INCH
	FLASHING ARROW BOARD		
	CONCRETE BARRIER TEMPORARY PRECAST		

REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL LANE CLOSURE"
"TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER"

IH-43 SB

MATCHLINE STA. 112+00 NB

140' SHIFTING TAPER 500'

WO1-6 48"X24"

LANE CLOSED R11-2L 48"X30"

END ROAD WORK G20-2A 48"X24"

653+29 NB 24' RT

50' (TYP.) 654+69 NB 28' RT

655 NB 4YT 4WT

100' (TYP.)

659+69 NB 10' LT

660 NB 8:1 TAPER 12'

661+61 NB 13' RT

663+96 NB 13' RT

665 NB

663+96 NB 28' RT

665+36 NB 24' RT

140' SHIFTING TAPER 100' 500'

W01-4L

WO5-52L 12"X36"

WO1-6 48"X24"

STH 120

STH 120 NB EXIT RAMP

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - IH-43 NB STAGE 1	SHEET 121	E

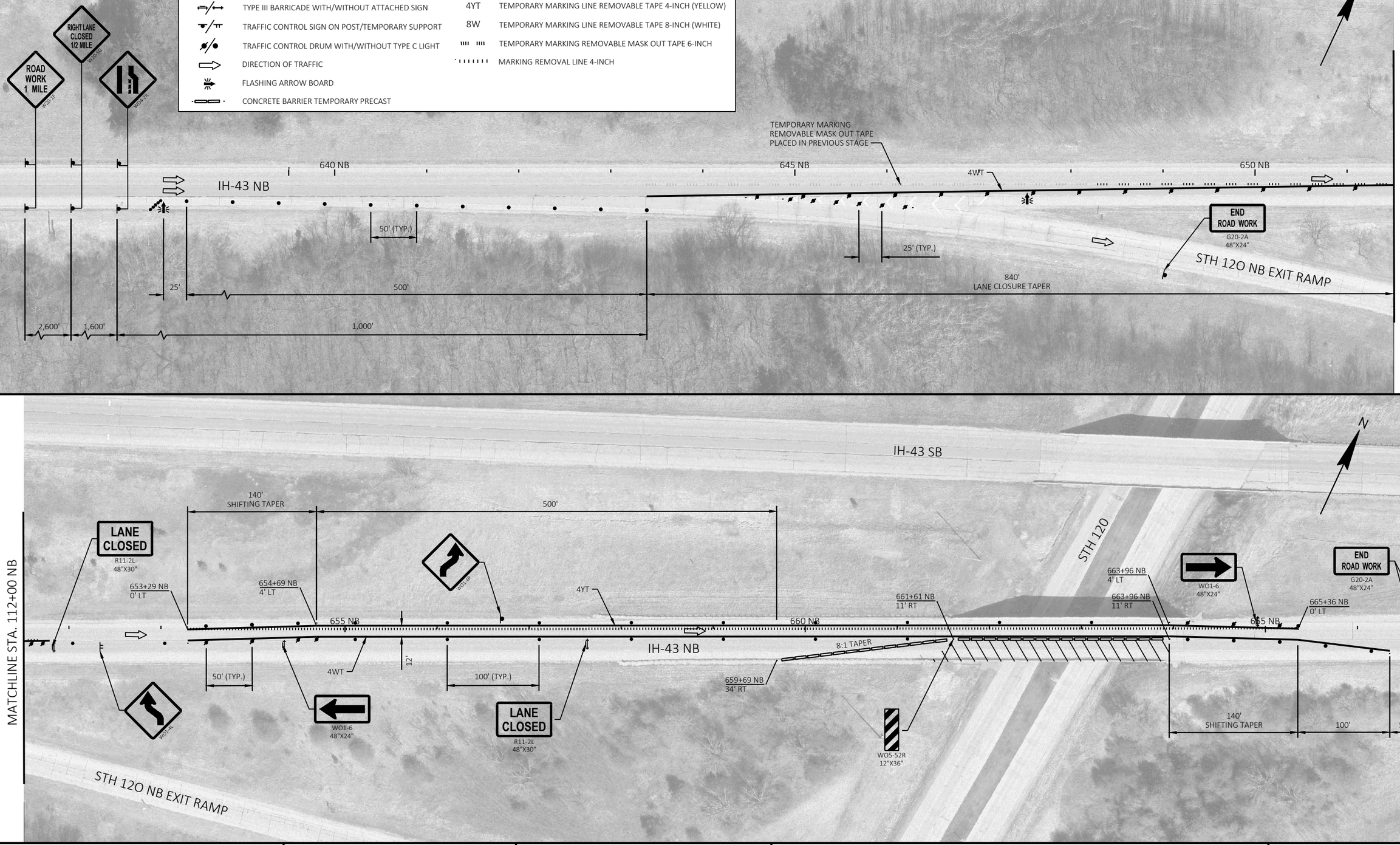
FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025111-S1-TC.DWG
LAYOUT NAME - 025111-s1-tc

PLOT DATE : 12/22/2022 10:25 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

	WORK ZONE	4WT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
	TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4YT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
	TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT	8W	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT		TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
	DIRECTION OF TRAFFIC		MARKING REMOVAL LINE 4-INCH
	FLASHING ARROW BOARD		
	CONCRETE BARRIER TEMPORARY PRECAST		

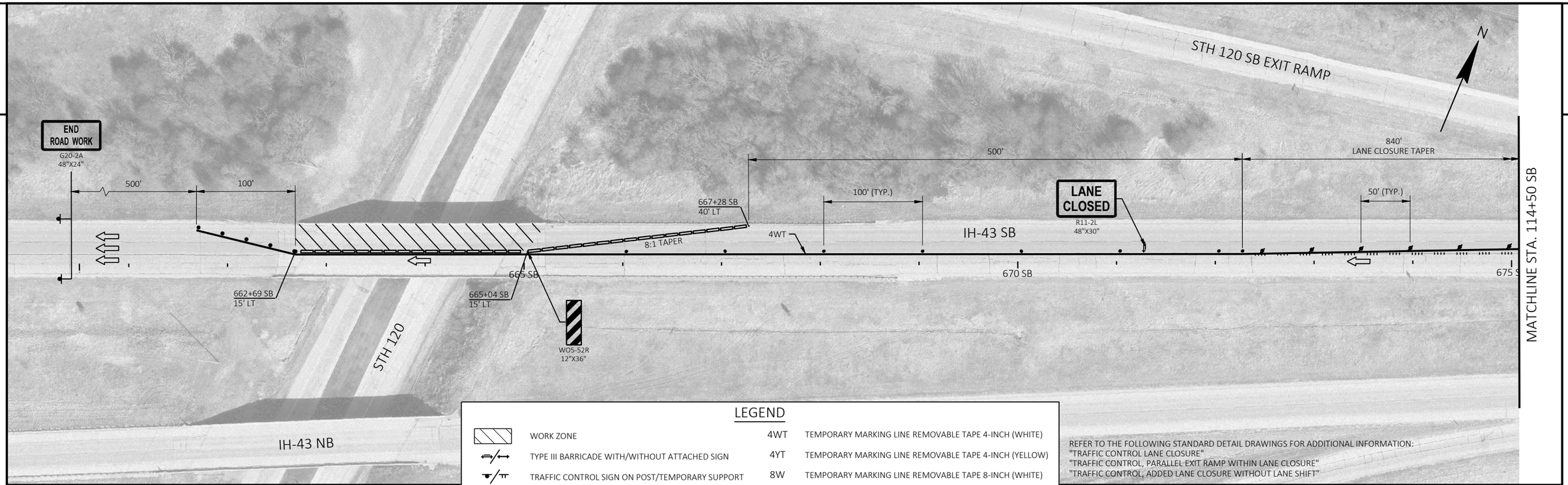
REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL LANE CLOSURE"
"TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER"
"TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE"



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - IH-43 NB STAGE 2	SHEET 122	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025111-S2-TC.DWG
LAYOUT NAME - 025111-s2-tc
PLOT DATE : 12/22/2022 10:25 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

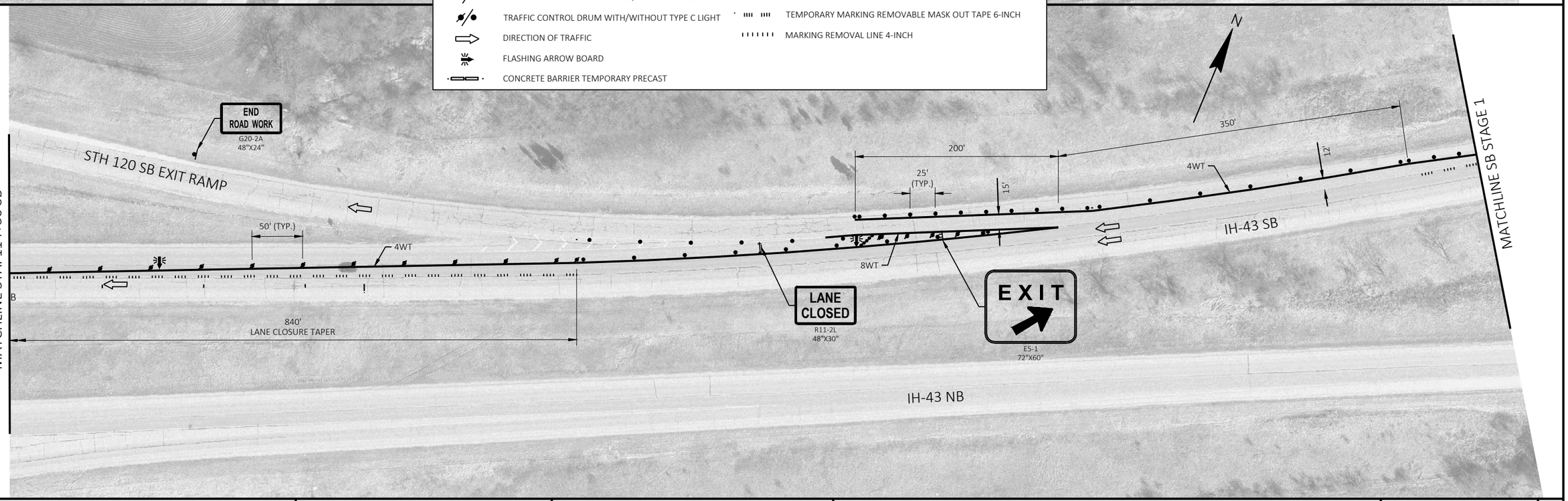
2



LEGEND

	WORK ZONE	4WT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
	TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4YT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
	TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT	8W	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT		TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
	DIRECTION OF TRAFFIC		MARKING REMOVAL LINE 4-INCH
	FLASHING ARROW BOARD		
	CONCRETE BARRIER TEMPORARY PRECAST		

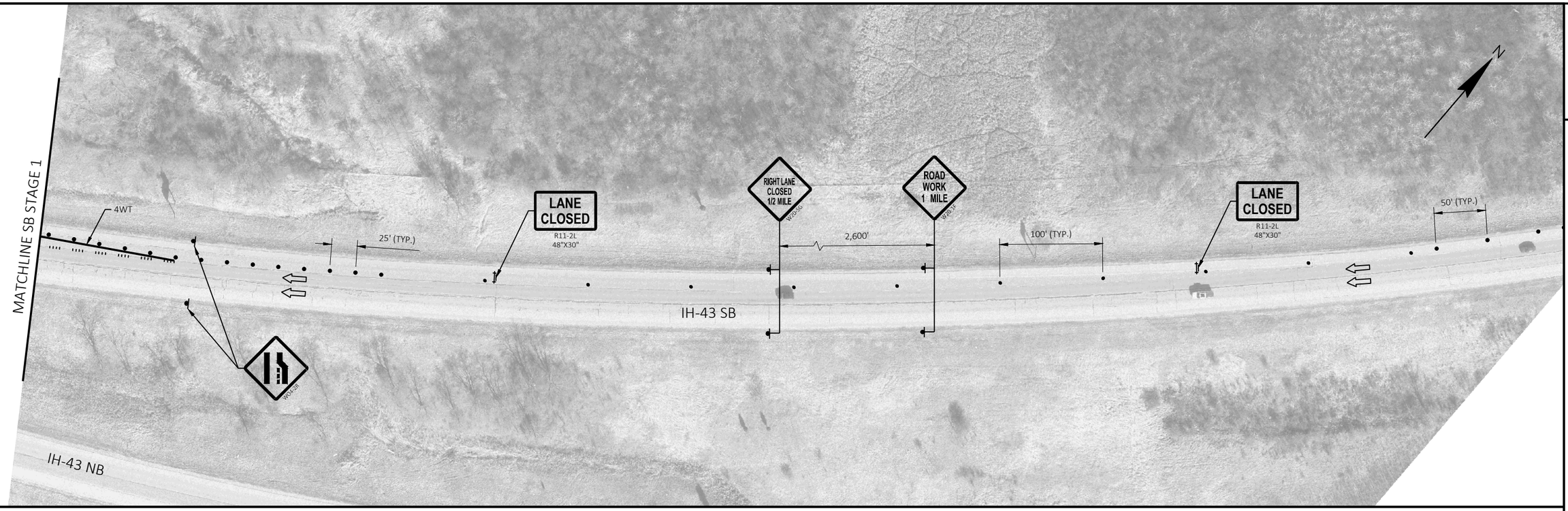
REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL LANE CLOSURE"
"TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE"
"TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT"



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - IH-43 SB STAGE 1	SHEET 123	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025121-S1-TC.DWG
LAYOUT NAME - 025121-s1-tc
PLOT DATE : 12/22/2022 10:25 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL LANE CLOSURE"
"TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE"
"TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT"

LEGEND

	WORK ZONE	4WT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
	TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4YT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
	TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT	8W	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT		TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
	DIRECTION OF TRAFFIC		MARKING REMOVAL LINE 4-INCH
	FLASHING ARROW BOARD		
	CONCRETE BARRIER TEMPORARY PRECAST		

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - IH-43 SB STAGE 1	SHEET 124	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025121-S1-TC.DWG
LAYOUT NAME - 025122-s1-tc
PLOT DATE : 12/22/2022 10:25 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

2

STH 120 SB EXIT RAMP

N

662+69 SB
21' LT

665+04 SB
21' LT

IH-43 SB

8:1 TAPER

665 SB

667+60 SB
11' RT

4YT

100' (TYP.)

670 SB

672+60 SB
22' LT

50' (TYP.)

4WT

12'

WO1-6
48"X24"

420'
SHIFTING TAPER

500'

675 S

MATCHLINE STA. 114+50 SB

500'

100'

STH 120

WO5-52L
12"X36"

END
ROAD WORK
G20-2A
48"X24"

IH-43 NB

LEGEND

	WORK ZONE	4WT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
	TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4YT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
	TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT	8W	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT		TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
	DIRECTION OF TRAFFIC		MARKING REMOVAL LINE 4-INCH
	FLASHING ARROW BOARD		
	CONCRETE BARRIER TEMPORARY PRECAST		

REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL LANE CLOSURE"
"TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER"
"TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE"
"TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT"

N

END
ROAD WORK
G20-2A
48"X24"

STH 120 SB EXIT RAMP

MATCHLINE STA. 113+00 SB

4WT

12'

4YT

676+80 SB
10' LT

420'
SHIFTING TAPER

IH-43 SB

100' (TYP.)

LANE
CLOSED
R11-2L
48"X30"

50' (TYP.)

WO1-4R

LANE
CLOSED
R11-2L
48"X30"

EXIT
E5-1
72"X60"

IH-43 NB

200'

25'
(TYP.)

15'

350'

TEMPORARY MARKING
PLACED IN PREVIOUS STAGE

12'

4YT

TEMPORARY MARKING
PLACED IN PREVIOUS STAGE

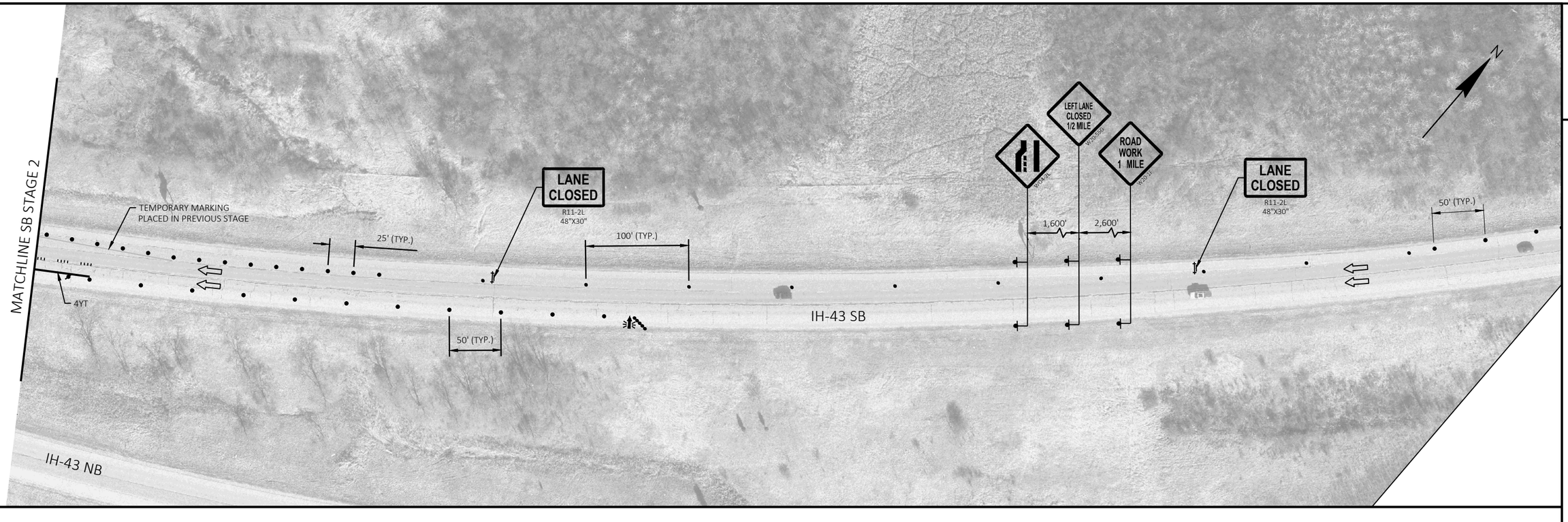
840'
LANE CLOSURE TAPER

MATCHLINE SB STAGE 2

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - IH-43 SB STAGE 2	SHEET 125	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025121-S2-TC.DWG
LAYOUT NAME - 025121-s2-tc
PLOT DATE : 12/22/2022 10:25 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



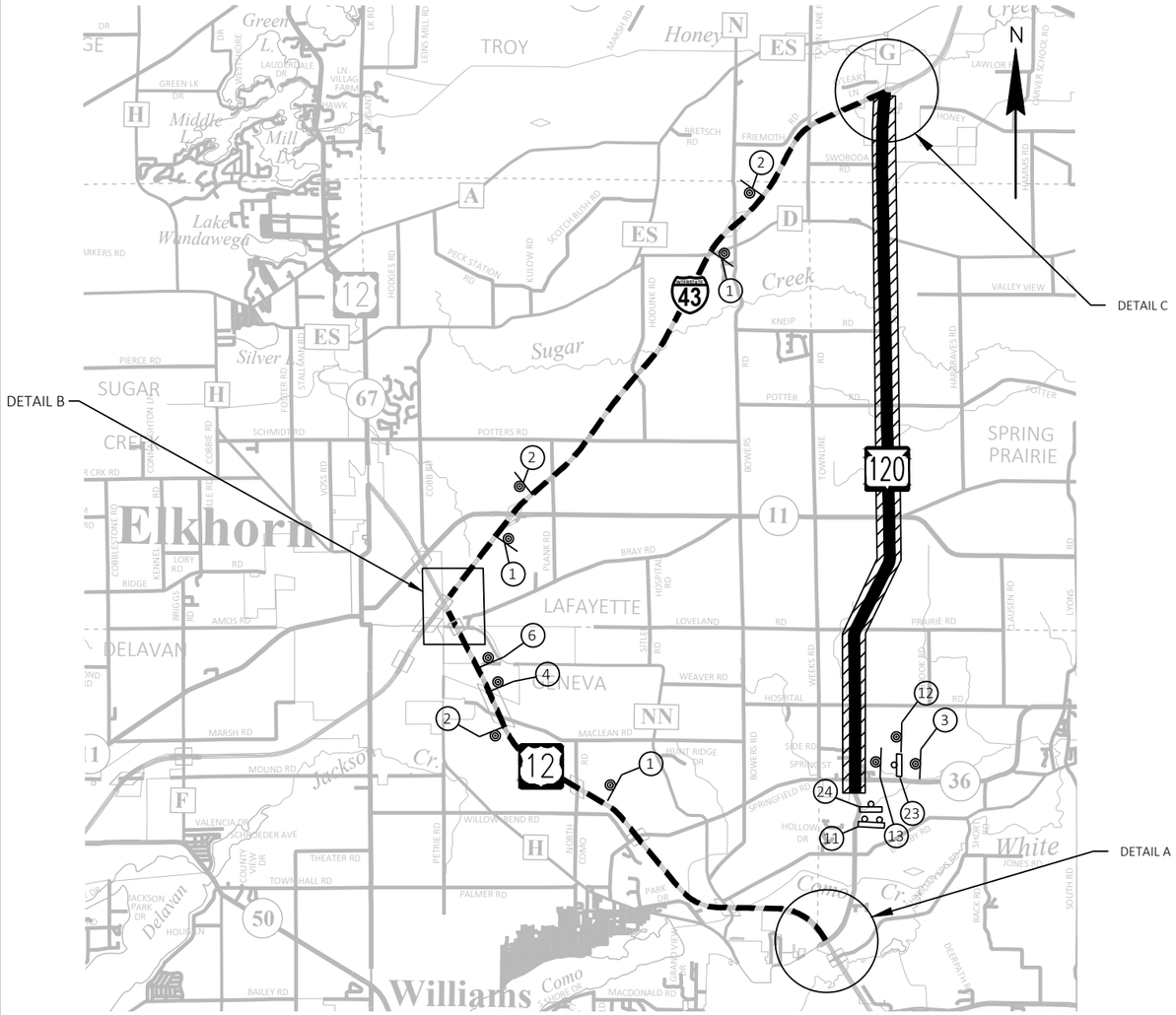
REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL LANE CLOSURE"
"TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER"
"TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE"
"TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT"

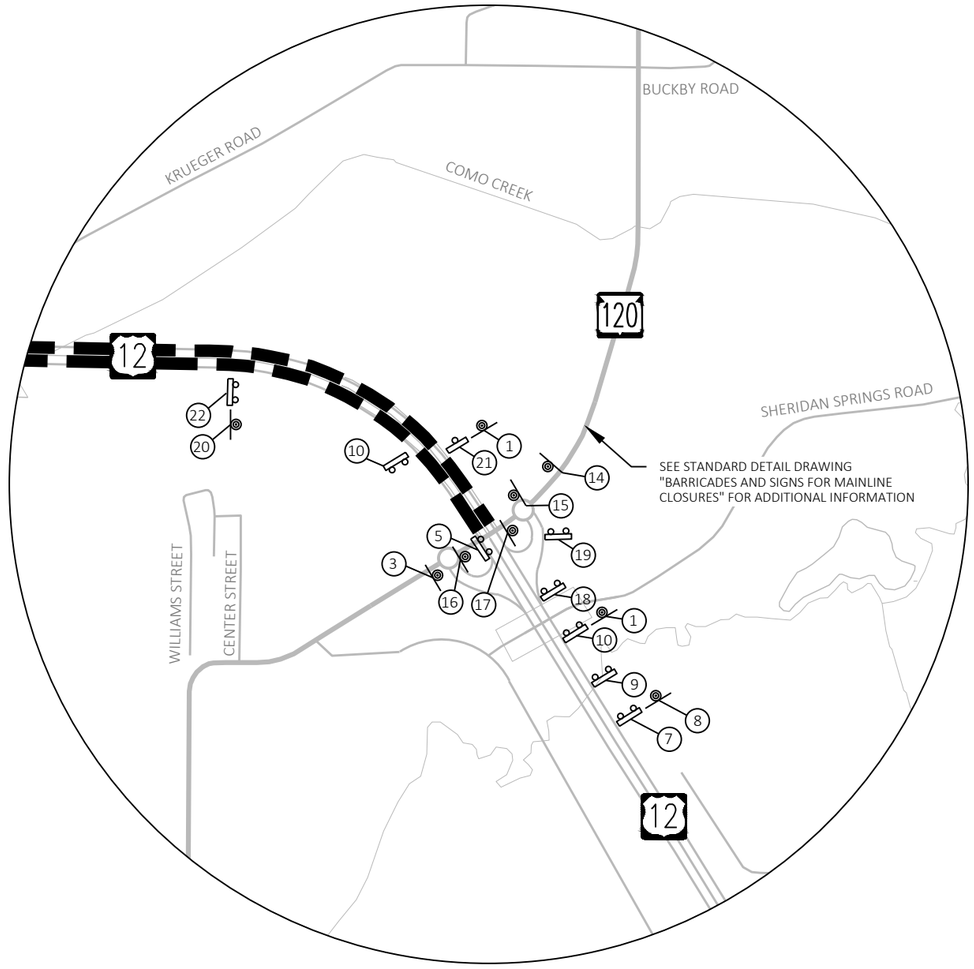
LEGEND

	WORK ZONE	4WT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
	TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4YT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
	TRAFFIC CONTROL SIGN ON POST/TEMPORARY SUPPORT	8W	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT		TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
	DIRECTION OF TRAFFIC		MARKING REMOVAL LINE 4-INCH
	FLASHING ARROW BOARD		
	CONCRETE BARRIER TEMPORARY PRECAST		

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	TRAFFIC CONTROL - IH-43 SB STAGE 2	SHEET 126	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\025121-S2-TC.DWG
LAYOUT NAME - 025122-s2-tc
PLOT DATE : 12/22/2022 10:26 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





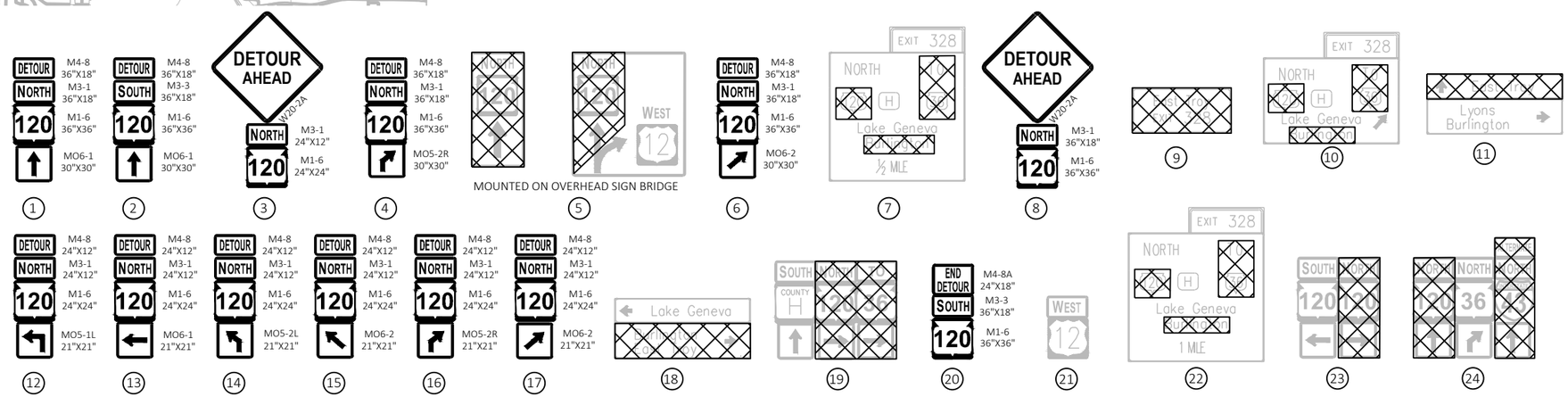
DETAIL A

LEGEND

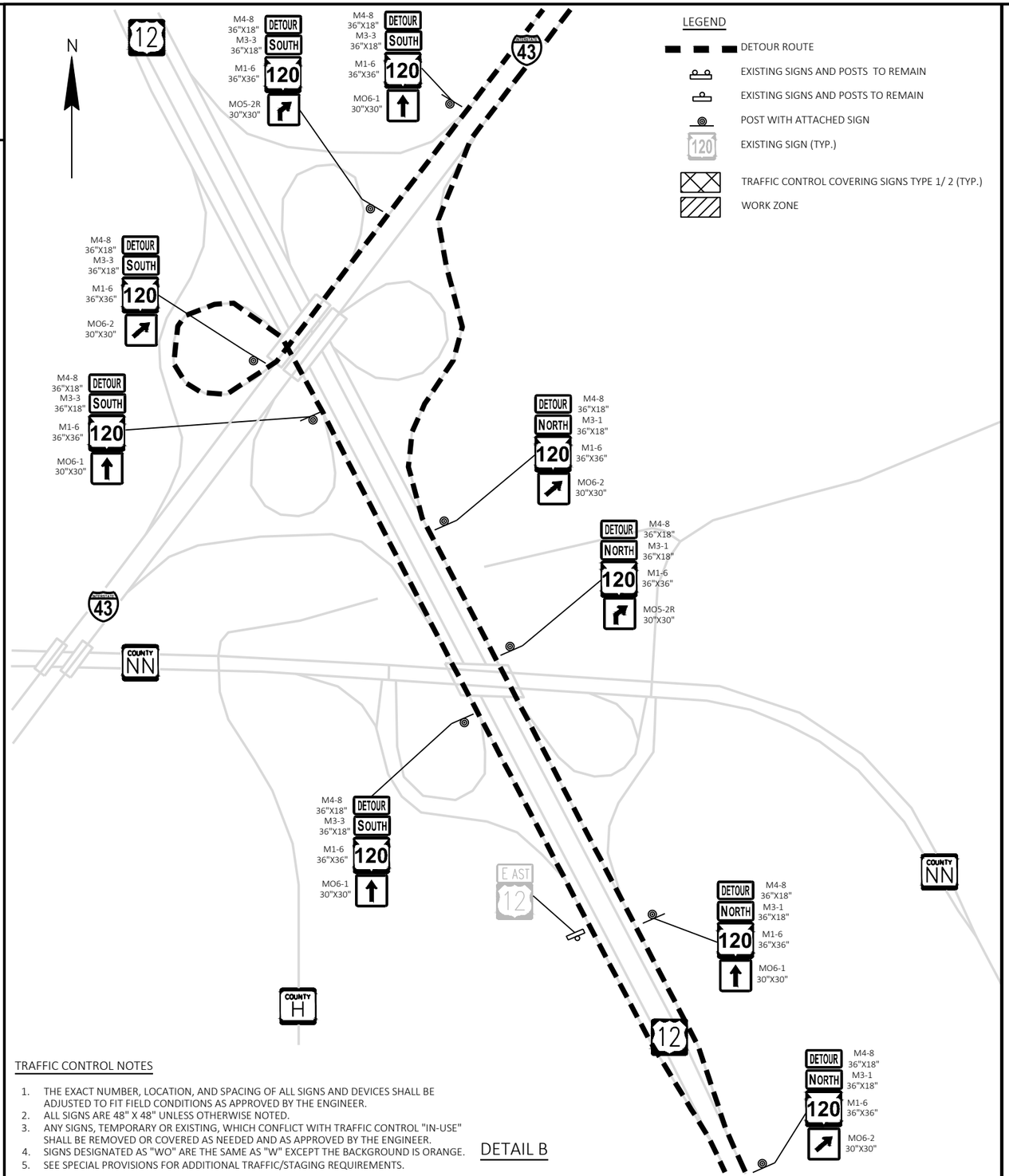
- DETOUR ROUTE
- EXISTING SIGNS AND POSTS TO REMAIN
- EXISTING SIGNS AND POSTS TO REMAIN
- POST WITH ATTACHED SIGN
- EXISTING SIGN (TYP.)
- TRAFFIC CONTROL COVERING SIGNS TYPE 1/ 2 (TYP.)
- WORK ZONE

TRAFFIC CONTROL NOTES

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
2. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
3. 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.
4. SIGNS DESIGNATED AS "WO" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
5. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC/STAGING REQUIREMENTS.



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	DETOUR ROUTE SIGNING	SHEET 127	E



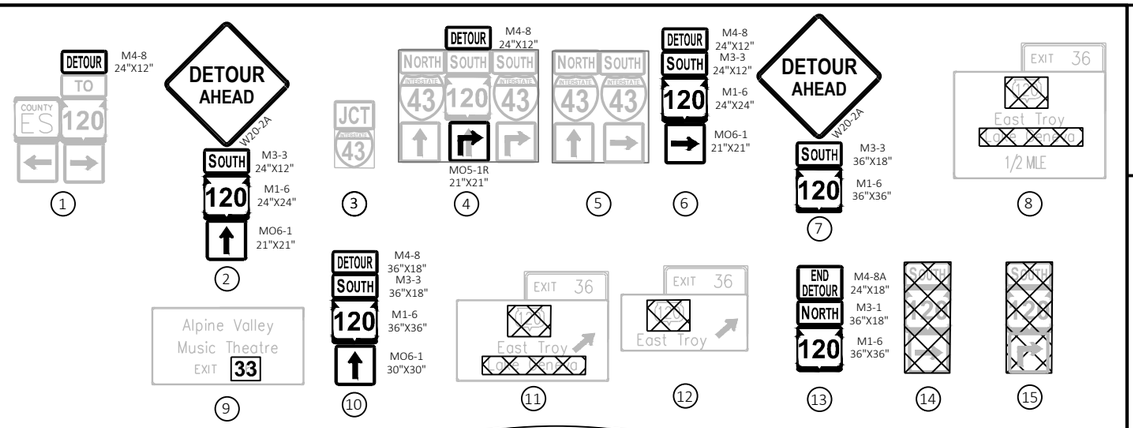
LEGEND

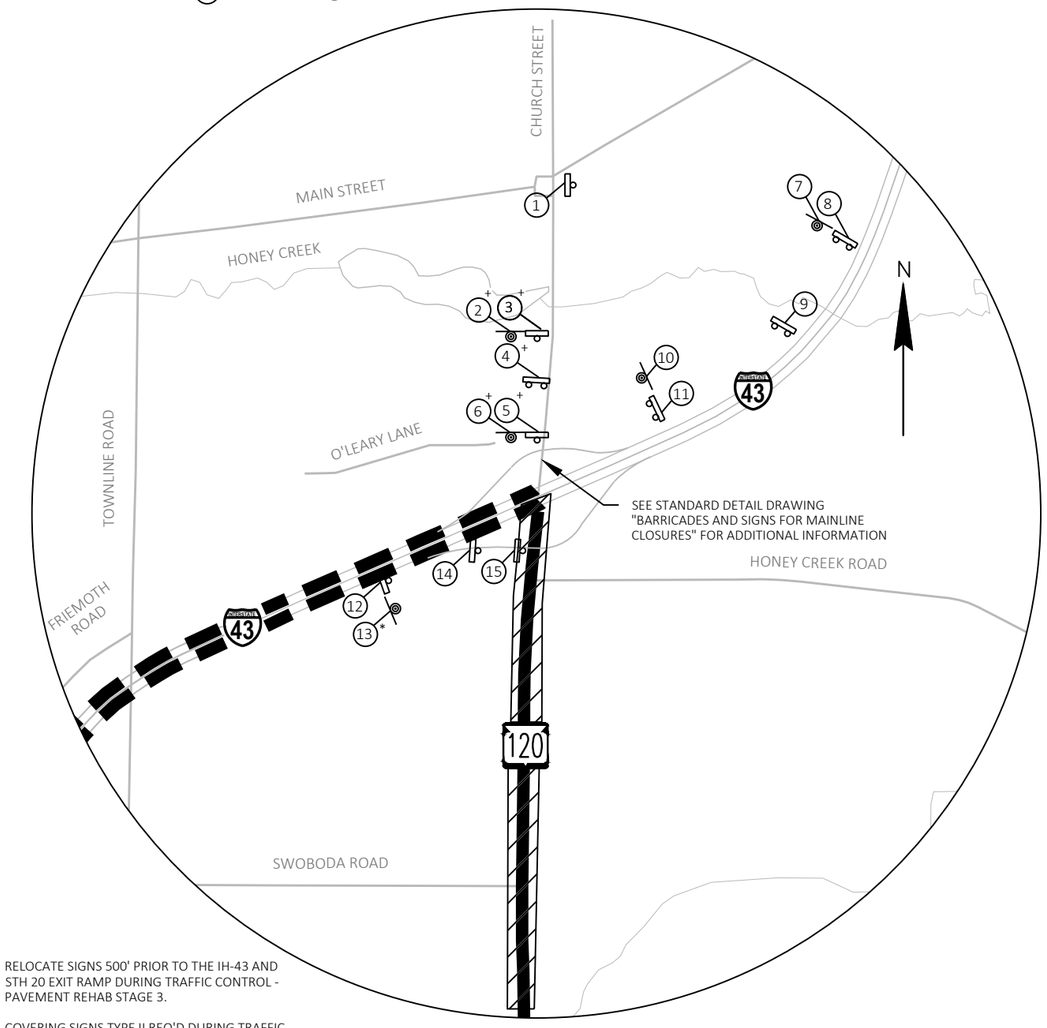
- DETOUR ROUTE
- EXISTING SIGNS AND POSTS TO REMAIN
- EXISTING SIGNS AND POSTS TO REMAIN
- POST WITH ATTACHED SIGN
- EXISTING SIGN (TYP.)
- TRAFFIC CONTROL COVERING SIGNS TYPE 1/ 2 (TYP.)
- WORK ZONE

DETAIL B

TRAFFIC CONTROL NOTES

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
2. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
3. 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.
4. SIGNS DESIGNATED AS "WO" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
5. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC/STAGING REQUIREMENTS.





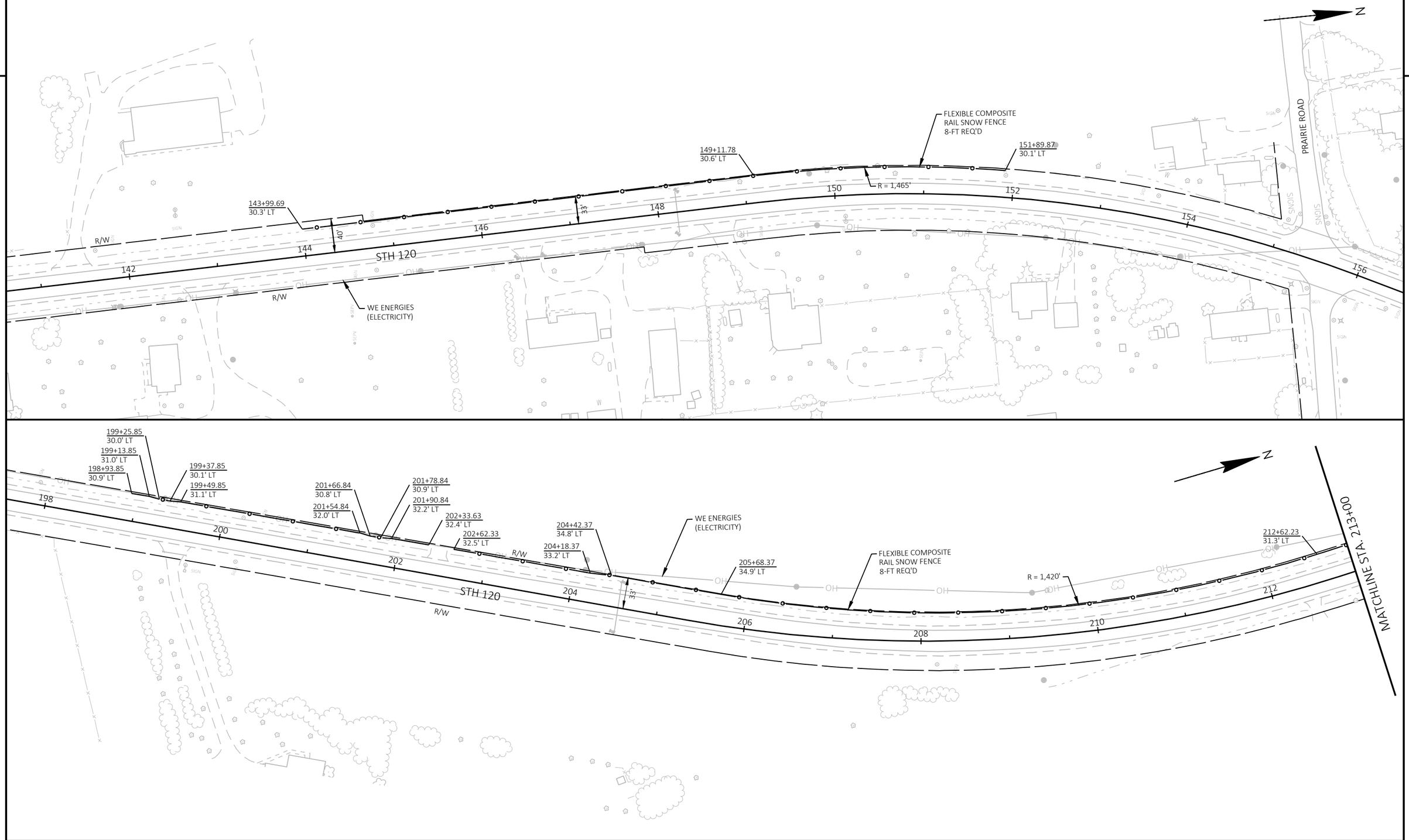
* RELOCATE SIGNS 500' PRIOR TO THE IH-43 AND STH 20 EXIT RAMP DURING TRAFFIC CONTROL - PAVEMENT REHAB STAGE 3.

\+ COVERING SIGNS TYPE II REQ'D DURING TRAFFIC CONTROL - PAVEMENT REHAB STAGE 4.

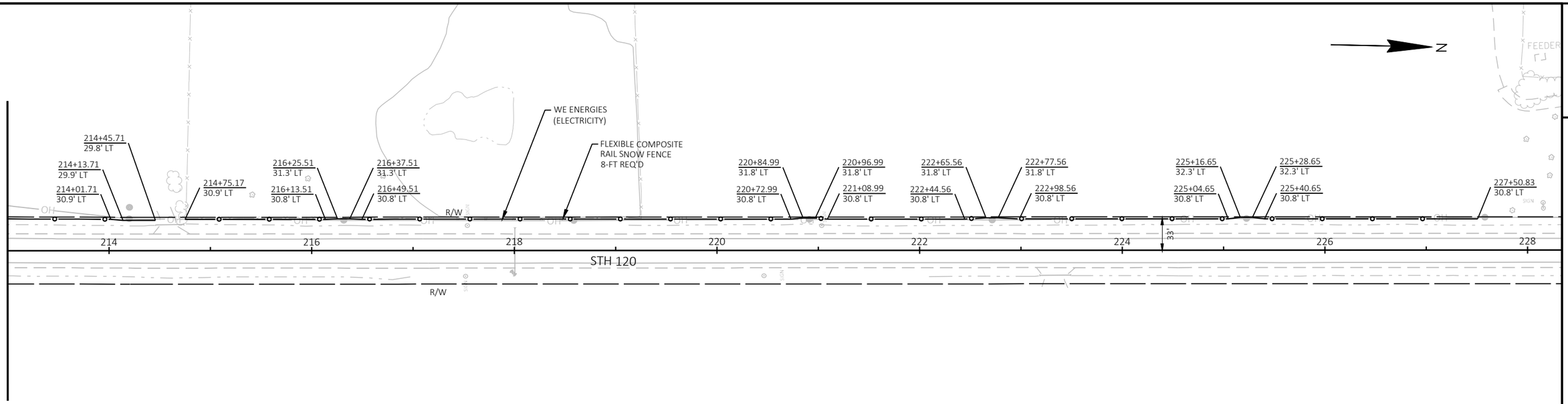
DETAIL C

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	DETOUR ROUTE SIGNING	SHEET 128	E

2



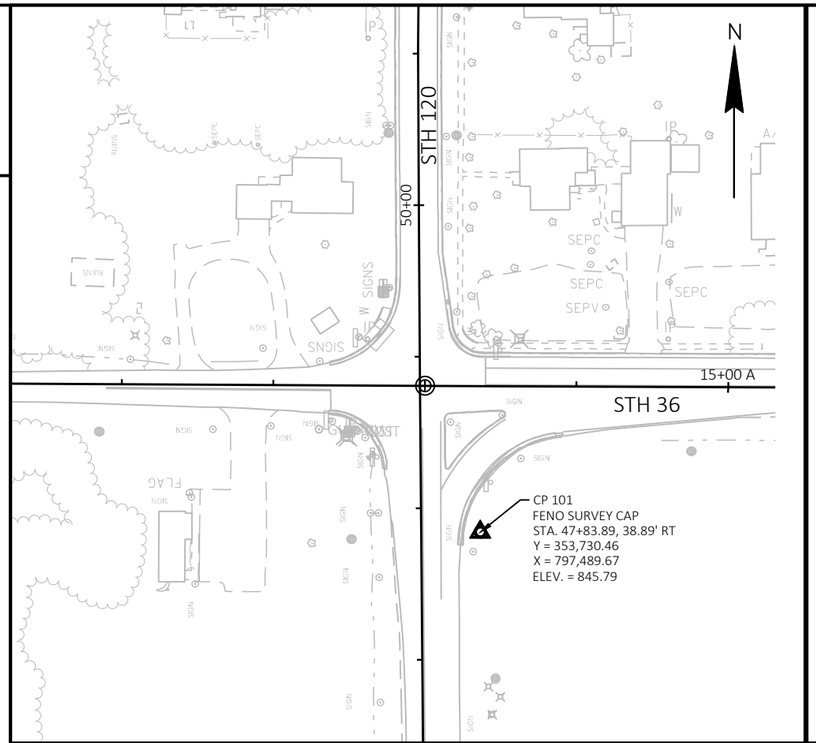
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	SNOW FENCE	SHEET 129	E

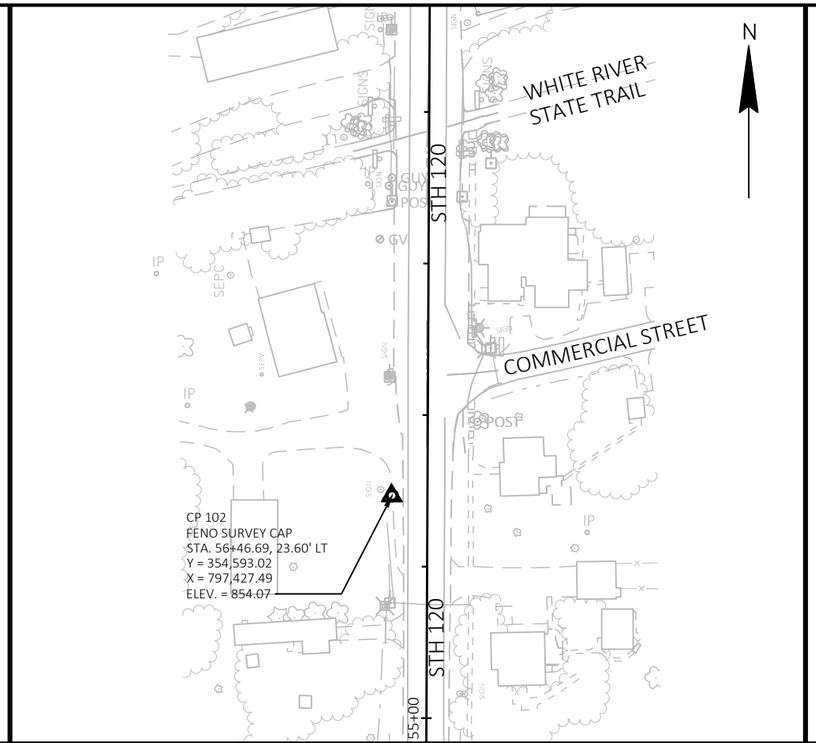


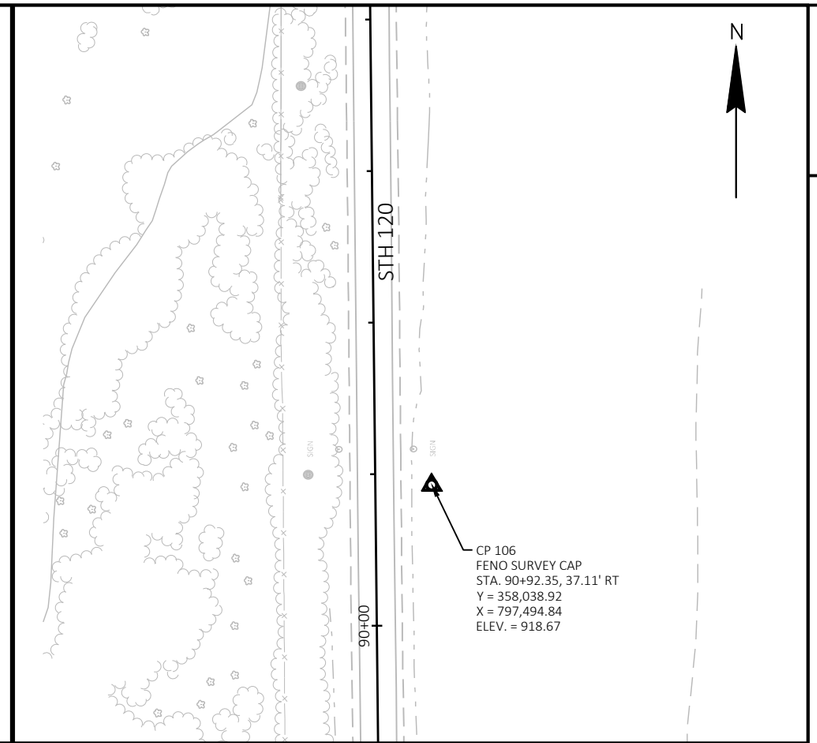
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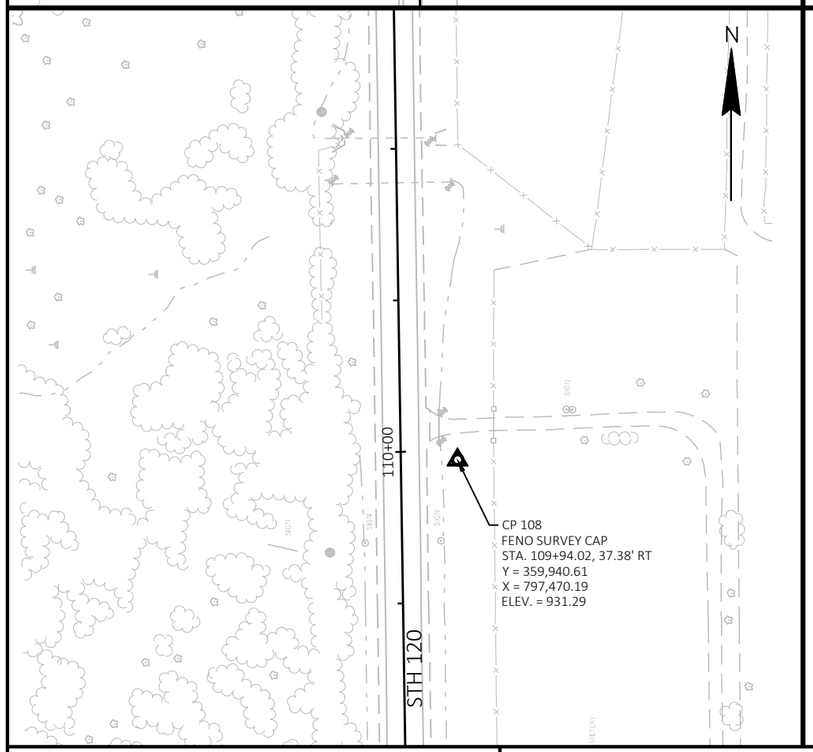
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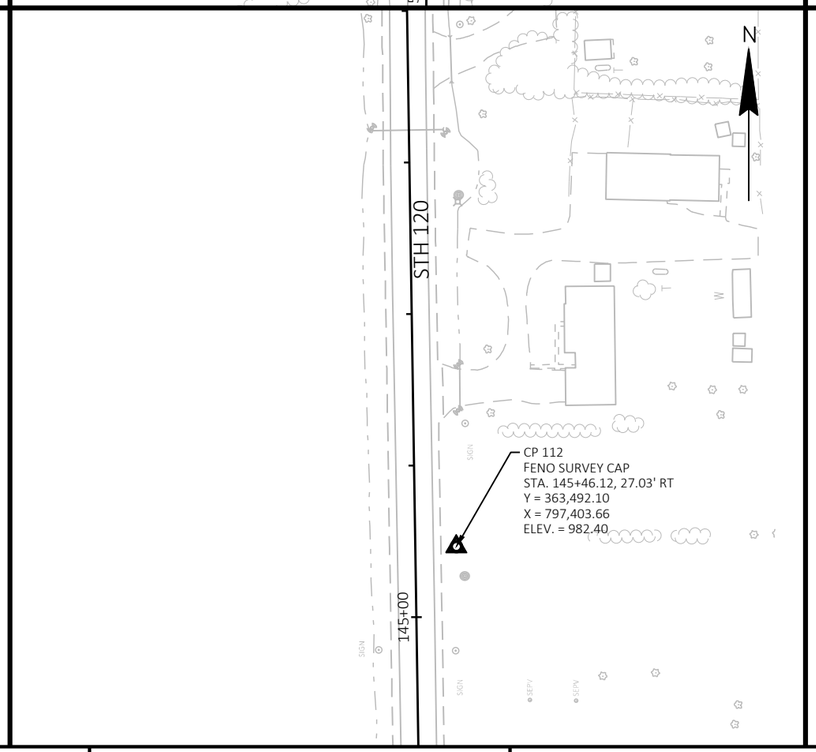
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PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

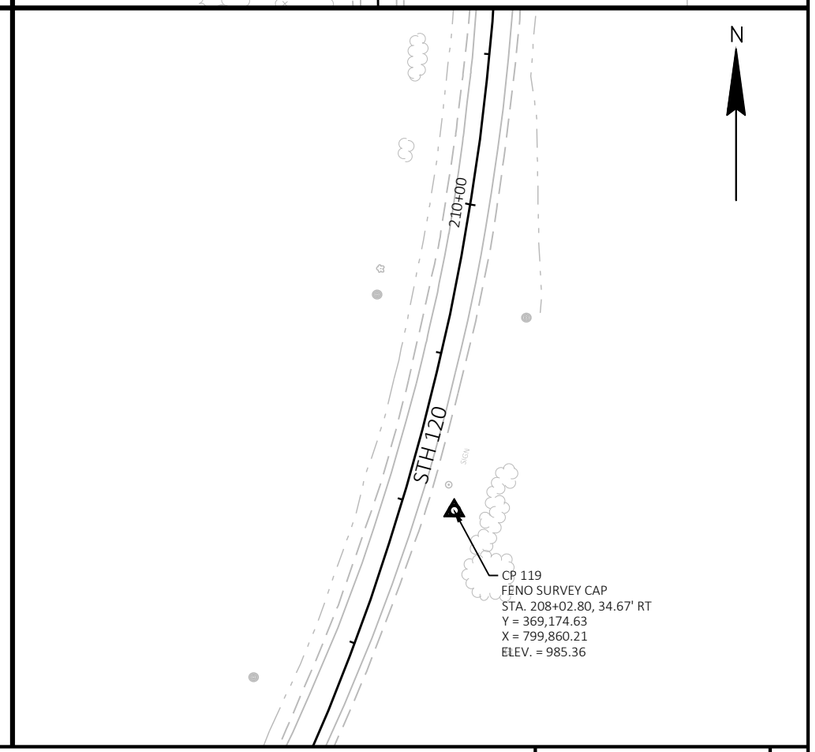






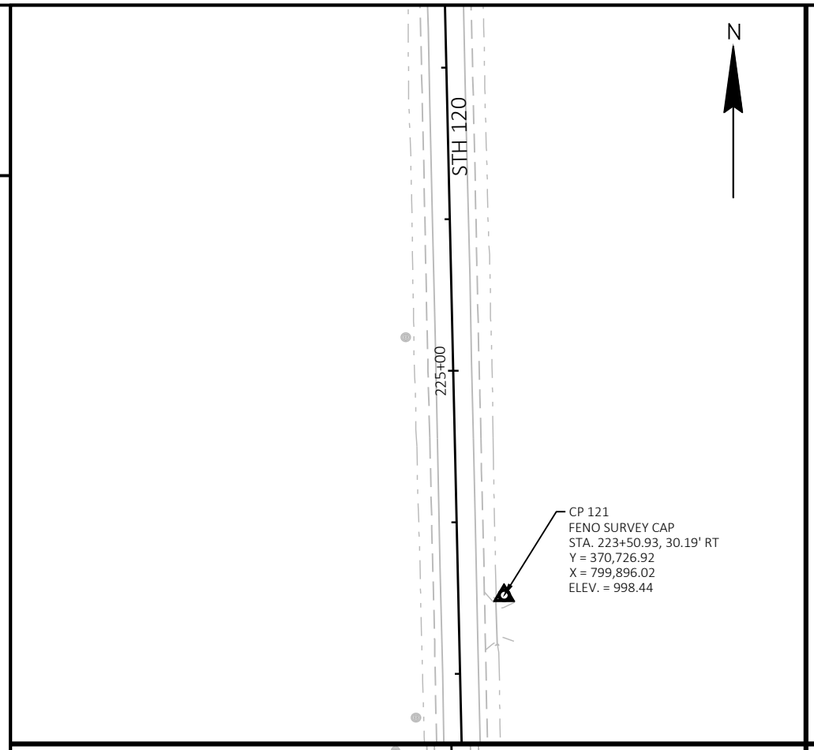


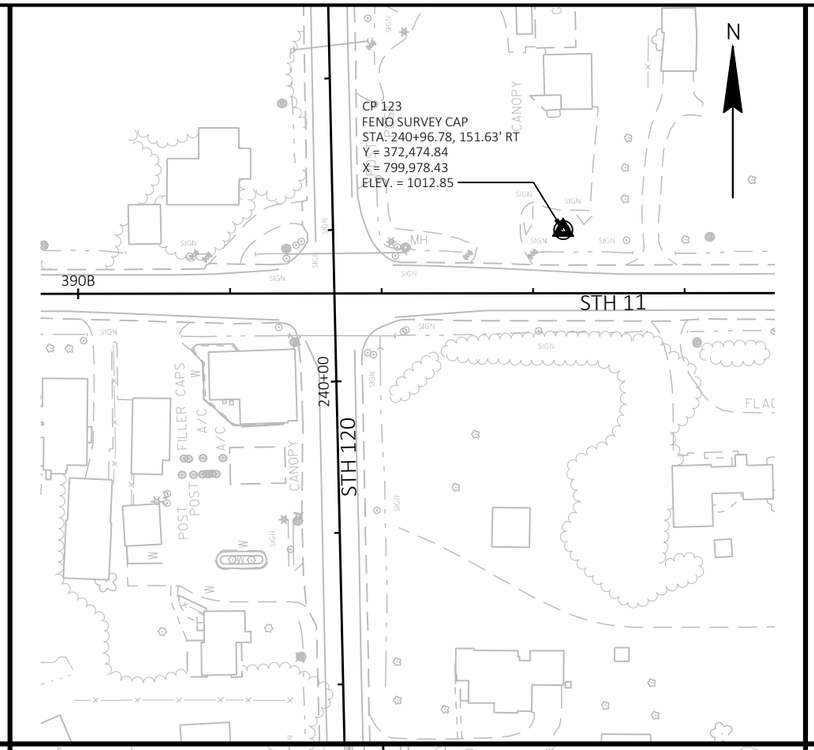


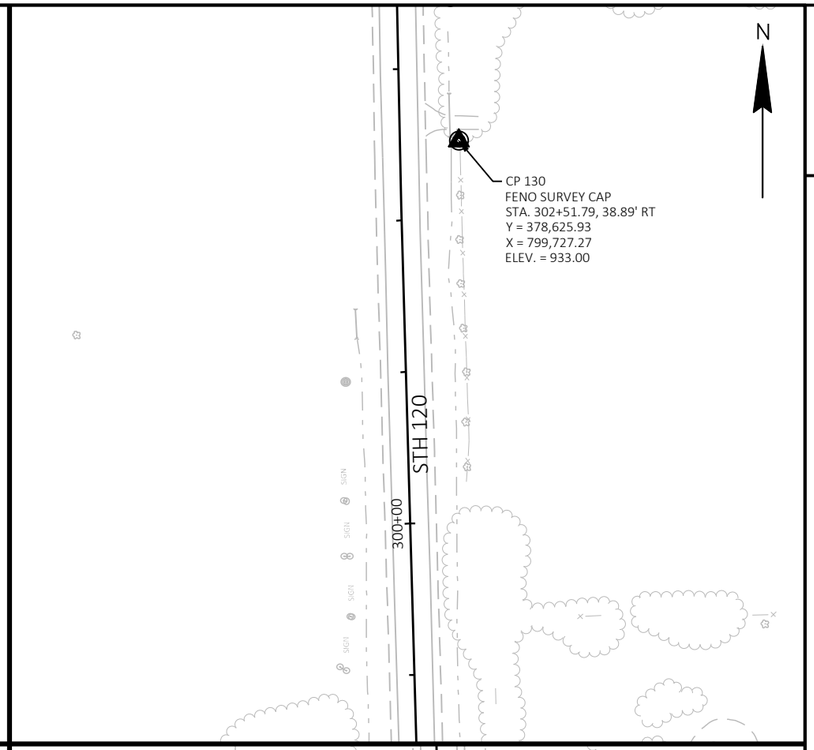


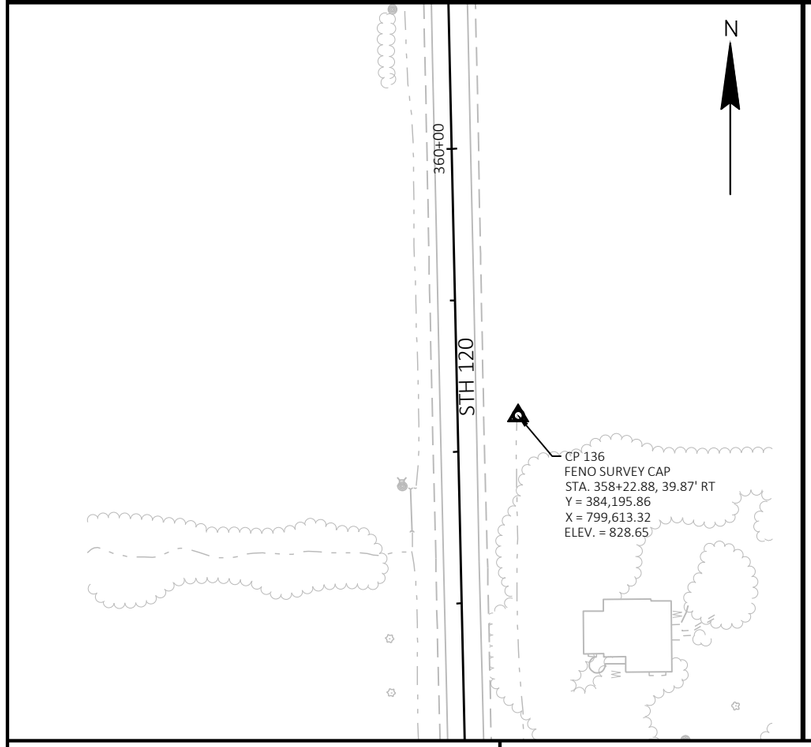
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	SURVEY CONTROL	SHEET 131	E

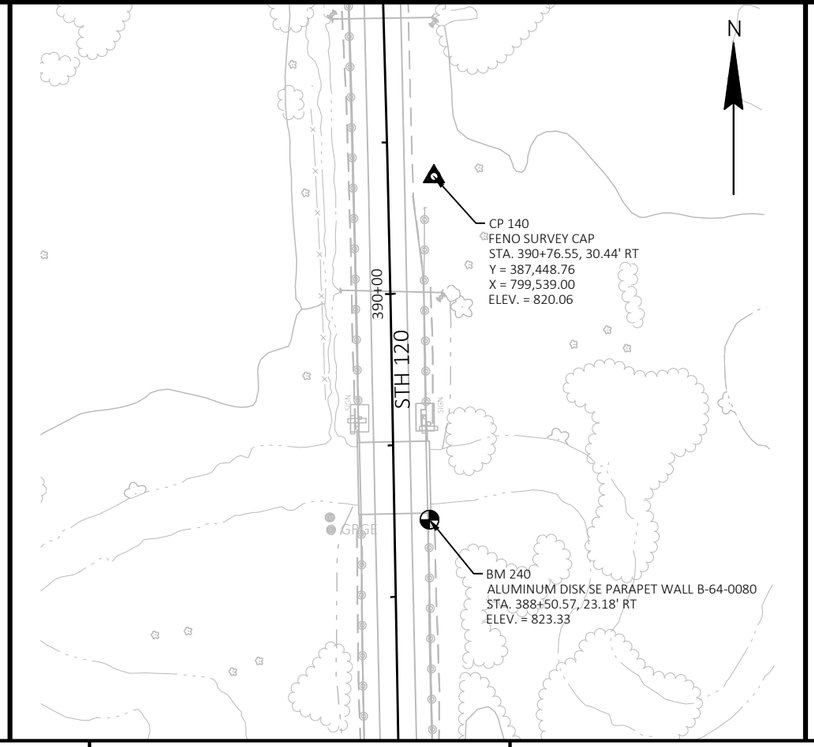
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WISDOT/CADDS SHEET 42

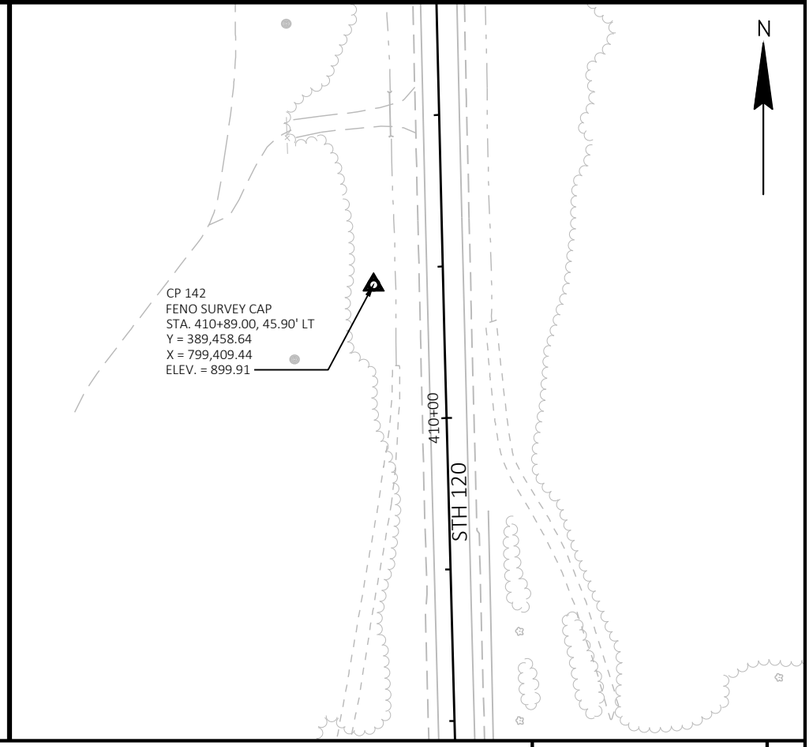






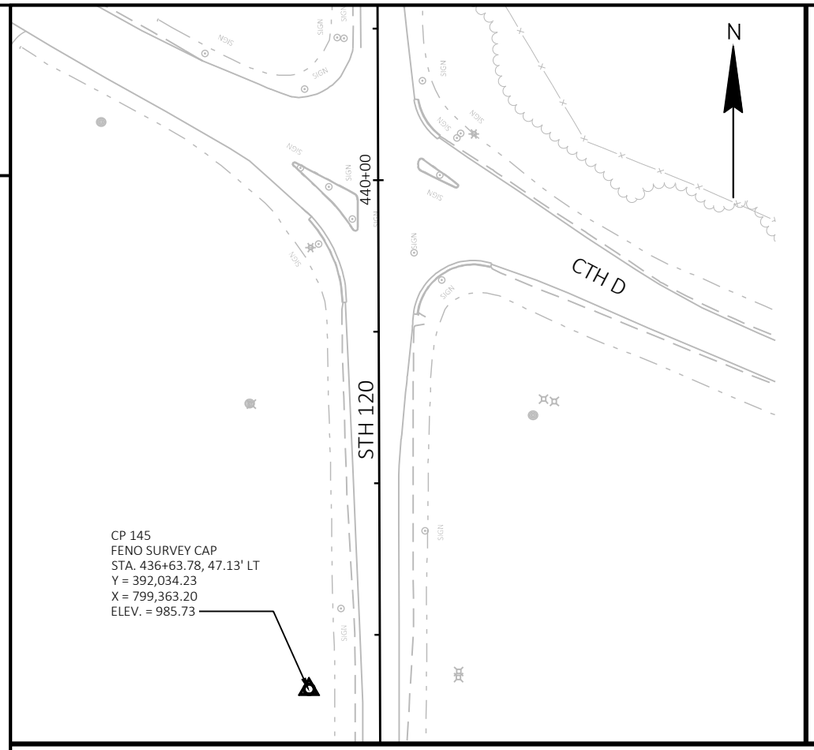


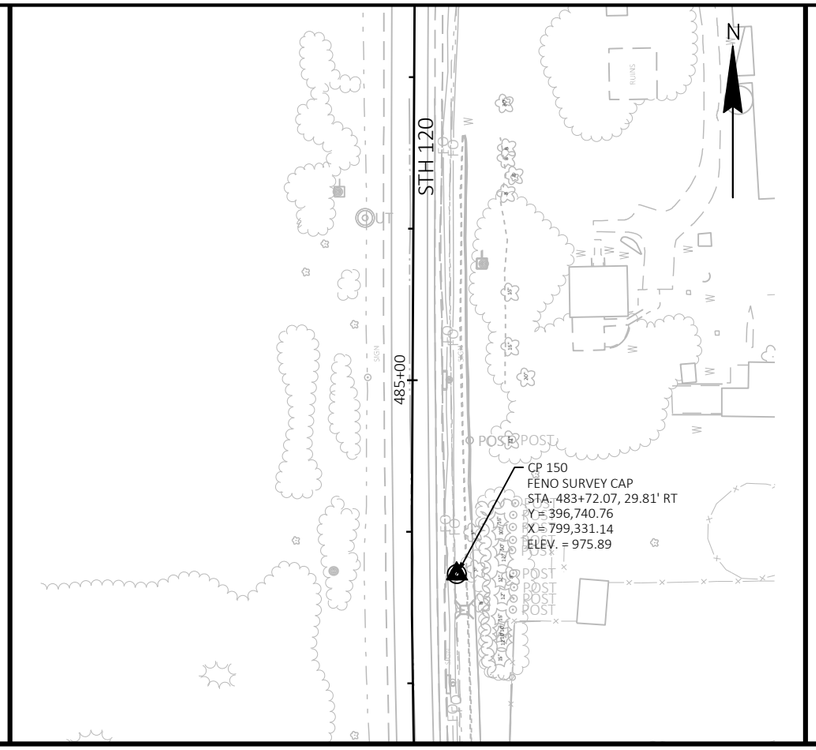




PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	SURVEY CONTROL	SHEET 132	E

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PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42





2

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	SURVEY CONTROL	SHEET 133	E

3694-00-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0220	Grubbing	ID	174.000	174.000
0004	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0006	203.0330	Debris Containment (structure) 01. B-64-0090	EACH	1.000	1.000
0008	203.0330	Debris Containment (structure) 02. B-64-0091	EACH	1.000	1.000
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	85.000	85.000
0012	204.0120	Removing Asphaltic Surface Milling	SY	190,000.000	190,000.000
0014	204.0150	Removing Curb & Gutter	LF	1,105.000	1,105.000
0016	204.0155	Removing Concrete Sidewalk	SY	79.000	79.000
0018	204.0165	Removing Guardrail	LF	3,337.000	3,337.000
0020	204.0190	Removing Surface Drains	EACH	1.000	1.000
0022	204.0195	Removing Concrete Bases	EACH	4.000	4.000
0024	204.9060.S	Removing (item description) 01. Traffic Signals STH 11 & STH 120	EACH	1.000	1.000
0026	204.9060.S	Removing (item description) 02. Retaining Wall R-64-23	EACH	1.000	1.000
0028	205.0100	Excavation Common	CY	1,265.000	1,265.000
0030	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	15.000	15.000
0032	213.0100	Finishing Roadway (project) 01. 3694-00-71	EACH	1.000	1.000
0034	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,210.000	2,210.000
0036	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,750.000	1,750.000
0038	311.0110	Breaker Run	TON	75.000	75.000
0040	416.0160	Concrete Driveway 6-Inch	SY	32.000	32.000
0042	416.0610	Drilled Tie Bars	EACH	915.000	915.000
0044	416.0620	Drilled Dowel Bars	EACH	1,835.000	1,835.000
0046	416.1710	Concrete Pavement Repair	SY	300.000	300.000
0048	416.1715	Concrete Pavement Repair SHES	SY	250.000	250.000
0050	416.1720	Concrete Pavement Replacement	SY	1,230.000	1,230.000
0052	416.1725	Concrete Pavement Replacement SHES	SY	1,930.000	1,930.000
0054	455.0605	Tack Coat	GAL	22,090.000	22,090.000
0056	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0058	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0060	460.2005	Incentive Density PWL HMA Pavement	DOL	24,390.000	24,390.000
0062	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	18,930.000	18,930.000
0064	460.2010	Incentive Air Voids HMA Pavement	DOL	32,290.000	32,290.000
0066	460.5224	HMA Pavement 4 LT 58-28 S	TON	32,290.000	32,290.000
0068	465.0105	Asphaltic Surface	TON	520.000	520.000
0070	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	4.000	4.000
0072	465.0315	Asphaltic Flumes	SY	24.000	24.000
0074	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	94,812.000	94,812.000
0076	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	45,840.000	45,840.000
0078	502.3205	Pigmented Surface Sealer Reseal	SY	450.000	450.000
0080	506.2610	Bearing Pads Elastomeric Laminated	EACH	26.000	26.000
0082	506.7050.S	Removing Bearings (structure) 01. B-64-0090	EACH	12.000	12.000
0084	506.7050.S	Removing Bearings (structure) 02. B-64-0091	EACH	14.000	14.000
0086	509.1500	Concrete Surface Repair	SF	938.000	938.000
0088	513.9006.S	Removing and Resetting Tubular Railing (structure) 01. B-64-0090	EACH	1.000	1.000
0090	513.9006.S	Removing and Resetting Tubular Railing (structure) 02. B-64-0091	EACH	1.000	1.000
0092	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	2.000	2.000
0094	520.1036	Apron Endwalls for Culvert Pipe 36-Inch	EACH	2.000	2.000
0096	520.3624	Culvert Pipe Class III-B Non-metal 24-Inch	LF	72.000	72.000
0098	520.3636	Culvert Pipe Class III-B Non-metal 36-Inch	LF	70.000	70.000

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Line	Item	Item Description	Unit	Total	Qty
0100	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	590.000	590.000
0102	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	42.000	42.000
0104	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	200.000	200.000
0106	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	599.000	599.000
0108	602.0410	Concrete Sidewalk 5-Inch	SF	1,398.000	1,398.000
0110	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	124.000	124.000
0112	603.8000	Concrete Barrier Temporary Precast Delivered	LF	925.000	925.000
0114	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,815.000	1,815.000
0116	604.9010.S	Slope Paving Repair Crushed Aggregate	CY	20.000	20.000
0118	604.9015.S	Reseal Crushed Aggregate Slope Paving	SY	850.000	850.000
0120	606.0200	Riprap Medium	CY	25.000	25.000
0122	611.8115	Adjusting Inlet Covers	EACH	1.000	1.000
0124	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	515.000	515.000
0126	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	41.000	41.000
0128	614.2300	MGS Guardrail 3	LF	1,250.000	1,250.000
0130	614.2310	MGS Guardrail 3 HS	LF	13.000	13.000
0132	614.2330	MGS Guardrail 3 K	LF	2,163.000	2,163.000
0134	614.2340	MGS Guardrail 3 L	LF	225.000	225.000
0136	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0138	614.2610	MGS Guardrail Terminal EAT	EACH	14.000	14.000
0140	616.0204	Fence Chain Link 4-FT	LF	505.000	505.000
0142	616.0700.S	Fence Safety	LF	105.000	105.000
0144	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3694-00-71	EACH	1.000	1.000
0146	619.1000	Mobilization	EACH	1.000	1.000
0148	620.0300	Concrete Median Sloped Nose	SF	93.000	93.000
0150	624.0100	Water	MGAL	3.000	3.000
0152	625.0100	Topsoil	SY	5,863.000	5,863.000
0154	627.0200	Mulching	SY	5,863.000	5,863.000
0156	628.1504	Silt Fence	LF	2,545.000	2,545.000
0158	628.1520	Silt Fence Maintenance	LF	2,545.000	2,545.000
0160	628.1530.S	Silt Fence Heavy Duty	LF	3,577.000	3,577.000
0162	628.1535.S	Silt Fence Heavy Duty Maintenance	LF	3,577.000	3,577.000
0164	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0166	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0168	628.2006	Erosion Mat Urban Class I Type A	SY	3,911.000	3,911.000
0170	628.2008	Erosion Mat Urban Class I Type B	SY	1,952.000	1,952.000
0172	628.7005	Inlet Protection Type A	EACH	1.000	1.000
0174	628.7015	Inlet Protection Type C	EACH	3.000	3.000
0176	628.7504	Temporary Ditch Checks	LF	160.000	160.000
0178	628.7555	Culvert Pipe Checks	EACH	61.000	61.000
0180	628.7570	Rock Bags	EACH	615.000	615.000
0182	629.0210	Fertilizer Type B	CWT	7.700	7.700
0184	630.0130	Seeding Mixture No. 30	LB	82.000	82.000
0186	630.0140	Seeding Mixture No. 40	LB	23.000	23.000
0188	630.0200	Seeding Temporary	LB	316.000	316.000
0190	630.0500	Seed Water	MGAL	130.000	130.000
0192	633.5200	Markers Culvert End	EACH	4.000	4.000
0194	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	52.000	52.000
0196	637.2210	Signs Type II Reflective H	SF	83.880	83.880

3694-00-71

Line	Item	Item Description	Unit	Total	Qty
0198	637.2230	Signs Type II Reflective F	SF	92.000	92.000
0200	638.2102	Moving Signs Type II	EACH	66.000	66.000
0202	638.2602	Removing Signs Type II	EACH	15.000	15.000
0204	638.3000	Removing Small Sign Supports	EACH	52.000	52.000
0206	642.5201	Field Office Type C	EACH	1.000	1.000
0208	643.0300	Traffic Control Drums	DAY	11,347.000	11,347.000
0210	643.0420	Traffic Control Barricades Type III	DAY	8,918.000	8,918.000
0212	643.0705	Traffic Control Warning Lights Type A	DAY	17,835.000	17,835.000
0214	643.0715	Traffic Control Warning Lights Type C	DAY	2,180.000	2,180.000
0216	643.0800	Traffic Control Arrow Boards	DAY	139.000	139.000
0218	643.0900	Traffic Control Signs	DAY	19,017.000	19,017.000
0220	643.0910	Traffic Control Covering Signs Type I	EACH	20.000	20.000
0222	643.0920	Traffic Control Covering Signs Type II	EACH	20.000	20.000
0224	643.1050	Traffic Control Signs PCMS	DAY	12.000	12.000
0226	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	13,615.000	13,615.000
0228	643.3250	Temporary Marking Line Removable Tape 8-Inch	LF	230.000	230.000
0230	643.3960	Temporary Marking Removable Mask Out Tape 6-Inch	LF	875.000	875.000
0232	643.5000	Traffic Control	EACH	1.000	1.000
0234	644.1440	Temporary Pedestrian Surface Matting	SF	455.000	455.000
0236	644.1601	Temporary Pedestrian Curb Ramp	DAY	25.000	25.000
0238	644.1605	Temporary Pedestrian Detectable Warning Field	SF	50.000	50.000
0240	644.1810	Temporary Pedestrian Barricade	LF	303.000	303.000
0242	645.0120	Geotextile Type HR	SY	46.000	46.000
0244	646.1020	Marking Line Epoxy 4-Inch	LF	63,472.000	63,472.000
0246	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	101,611.000	101,611.000
0248	646.3020	Marking Line Epoxy 8-Inch	LF	1,887.000	1,887.000
0250	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	325.000	325.000
0252	646.5020	Marking Arrow Epoxy	EACH	16.000	16.000
0254	646.5120	Marking Word Epoxy	EACH	5.000	5.000
0256	646.6120	Marking Stop Line Epoxy 18-Inch	LF	727.000	727.000
0258	646.7120	Marking Diagonal Epoxy 12-Inch	LF	755.000	755.000
0260	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	176.000	176.000
0262	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	132.000	132.000
0264	646.8120	Marking Curb Epoxy	LF	95.000	95.000
0266	646.8220	Marking Island Nose Epoxy	EACH	9.000	9.000
0268	646.9000	Marking Removal Line 4-Inch	LF	4,275.000	4,275.000
0270	646.9200	Marking Removal Line Wide	LF	375.000	375.000
0272	648.0100	Locating No-Passing Zones	MI	9.740	9.740
0274	650.4500	Construction Staking Subgrade	LF	585.000	585.000
0276	650.5000	Construction Staking Base	LF	585.000	585.000
0278	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,431.000	1,431.000
0280	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000
0282	650.6501	Construction Staking Structure Layout (structure) 01. R-64-37	EACH	1.000	1.000
0284	650.8000	Construction Staking Resurfacing Reference	LF	51,400.000	51,400.000
0286	650.9000	Construction Staking Curb Ramps	EACH	10.000	10.000
0288	650.9500	Construction Staking Sidewalk (project) 01. 3694-00-71	EACH	1.000	1.000
0290	650.9911	Construction Staking Supplemental Control (project) 01. 3694-00-71	EACH	1.000	1.000
0292	650.9920	Construction Staking Slope Stakes	LF	5,530.000	5,530.000
0294	653.0905	Removing Pull Boxes	EACH	4.000	4.000

3694-00-71

Line	Item	Item Description	Unit	Total	Qty
0296	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	4.000	4.000
0298	690.0150	Sawing Asphalt	LF	2,689.000	2,689.000
0300	690.0250	Sawing Concrete	LF	6,016.000	6,016.000
0302	740.0440	Incentive IRI Ride	DOL	36,579.000	36,579.000
0304	SPV.0060	Special 01. Stop Sign Traffic Flashing Beacon System, Solar, STH 120 SB at STH 11	EACH	1.000	1.000
0306	SPV.0060	Special 02. Stop Sign Traffic Flashing Beacon System, Solar, STH 120 NB at STH 11	EACH	1.000	1.000
0308	SPV.0060	Special 03. Stop Sign Traffic Flashing Beacon System, Solar, STH 11 WB at STH 120	EACH	1.000	1.000
0310	SPV.0060	Special 04. Stop Sign Traffic Flashing Beacon System, Solar, STH 11 EB at STH 120	EACH	1.000	1.000
0312	SPV.0090	Special 01. Flexible Composite Rail Snow Fence 8-FT	LF	3,580.000	3,580.000
0314	SPV.0165	Special 01. Wall Concrete Panel Mechanically Stabilized Earth R-64-37	SF	4,955.000	4,955.000
0316	SPV.0165	Special 02. Fiber Wrap Reinforcing Non-Structural	SF	260.000	260.000
0318	SPV.0165	Special 03. Concrete Girder End Repair	SF	226.000	226.000
0320	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	3,550.000	3,550.000

3

CLEARING AND GRUBBING ITEMS

CATEGORY	STATION	LOCATION	201.0220 GRUBBING ID
0010	482+25	64.7' RT	10
	482+28	46.8' RT	5
	482+28	52.6' RT	12
	482+41	45.8' RT	4
	483+16	58.2' RT	15
	483+27	59.7' RT	12
	483+31	59.5' RT	10
	483+35	59.5' RT	10
	483+43	58.4' RT	15
	483+57	60.3' RT	12
	483+68	58.7' RT	12
	483+75	42.5' RT	7
	483+82	60.7' RT	12
	483+89	59.6' RT	10
	484+00	40.5' RT	3
	484+00	58.9' RT	10
	484+07	57.5' RT	15
	TOTAL		174

BASE AGGREGATE DENSE

CATEGORY	STATION - STATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON
0010	42+94 - 145+50	330	1,300
	145+50 - 248+50	320	--
	248+50 - 351+50	360	--
	351+50 - 454+50	720	110
	454+50 - 557+07	370	180
	UNDISTRIBUTED	110	160
	TOTALS	2,210	1,750

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100 01. 3694-00-71 EACH
0010	3694-00-71	1

CONCRETE DRIVEWAY 6-INCH

CATEGORY	STATION	LOCATION	416.0160 SY
0010	52+88	RT	32

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION - STATION	LOCATION	204.0115 BUTT JOINTS SY	204.0120 MILLING SY	SPV.0180.01 REMOVING DISTRESSED PAVEMENT MILLING SY
0010	42+94 - 145+50	LT/RT	20	38,200	---
	145+50 - 248+50	LT/RT	15	39,300	---
	248+50 - 351+50	LT/RT	---	38,900	---
	351+50 - 454+50	LT/RT	45	41,500	---
	454+50 - 557+07	LT/RT	5	32,100	---
	UNDISTRIBUTED	LT/RT	---	---	3,550
	TOTALS		85	190,000	3,550

PAVEMENT BARS

CATEGORY	STATION - STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH
0010	42+94 - 145+50	LT/RT	27	--
	520+83 - 557+07	LT/RT	888	1,835
	TOTALS		915	1,835

SHOULDER ITEMS

CATEGORY	STATION - STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA
0010	42+94 - 145+50	LT/RT	---
	145+50 - 248+50	LT/RT	---
	248+50 - 351+50	LT/RT	1
	351+50 - 454+50	LT/RT	14
	454+50 - 557+07	LT/RT	---
	TOTAL		15

CONCRETE PAVEMENT

CATEGORY	STATION - STATION	LOCATION	416.1710 REPAIR SY	416.1715 REPAIR SHES SY	416.1720 REPLACEMENT SY	416.1725 REPLACEMENT SHES SY
0010	520+83 - 557+07	LT/RT	300	250	1,230	1,930

EARTHWORK SUMMARY

CATEGORY	STATION FROM	STATION TO	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2) CY	205.0100 EXCAVATION COMMON (1) EBS (3)** EXCAVATION CY	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (4) CY	AVAILABLE MATERIAL (5) CY	EXPANDED EBS BACKFILL (11) FACTOR 1.30 CY	(16) 311.0110 BREAKER RUN FACTOR* 1.80 TON	UNEXPANDED FILL CY	EXPANDED FILL (13) FACTOR 1.25 CY	MASS ORDINATE ± (14) CY
0010	42+94	48+67	RIGHT TURN LANE, STH 120	536	26	126	410	34	61	80	100	310
	49+50	53+10	CURB & GUTTER REPLACEMENT	167	--	21	146	--	--	25	30	116
	94+29	95+29	CULVERT STA. 94+79	64	--	30	34	--	--	--	--	34
	111+28	112+28	CULVERT STA. 111+78	64	--	30	34	--	--	--	--	34
	304+62	311+71	GUARDRAIL REPLACEMENT	4	--	--	4	--	--	7	9	(5)
	360+75	366+67	GUARDRAIL REPLACEMENT	2	--	--	2	--	--	25	31	(29)
	382+02	394+29	GUARDRAIL REPLACEMENT	17	--	--	17	--	--	45	56	(39)
	399+66	411+84	GUARDRAIL REPLACEMENT	14	--	--	14	--	--	32	39	(25)
	439+48	440+22	CTH D MEDIAN ISLANDS	62	--	31	31	--	--	--	--	31
	481+55	486+61	R-64-37 RETAINING WALL	199	--	20	179	--	--	506	633	(454)
	14+00 A	15+59 A	RIGHT TURN LANE, STH 36	104	6	29	75	8	14	--	--	75
			SUB-TOTALS	1,233	32	287	946	42	75	720	898	48
			TOTALS	1,265					75			

NOTES

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(3) EBS EXCAVATION TO BE BACKFILLED WITH BREAKER RUN. SOILS REMOVED AS EBS MUST BE WASTED OFFSITE AND NOT REUSED AS FILL.
(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH BREAKER RUN. EBS BACKFILL FACTOR = 1.30.
(13) EXPANDED FILL FACTOR = 1.25; EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR
(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE STAGE. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE STAGE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE.
(16) UNDISTRIBUTED QUANTITY OF BREAKER RUN TO FILL EBS. CY TO TON CONVERSION FACTOR = 1.80 TON/CY

* CY TO TON CONVERSION FACTOR = 1.80 TON/CY
** UNDISTRIBUTED EBS EXCAVATION = 5% OF CUT

3

PWL MIXTURE USE TABLE

LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO BE USED FOR:	
							MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12-FOOT DRIVING LANES	47+98 TO 520+83	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 LT 58-28 S	12,195	1.75"	INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
12-FOOT DRIVING LANES	47+98 TO 520+83	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	12,195	1.75"	INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
HMA SHOULDERS	47+98 TO 557+07	SINGLE LAYER	MILLED EXISTING HMA SURFACE	4 LT 58-28 S	7,360	1.75"	INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
RIGHT TURN LANE	42+94 TO 47+98	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	169	2.25"	INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
RIGHT TURN LANE	42+94 TO 47+98	MIDDLE LAYER	4 LT 58-28 S	4 LT 58-28 S	150	2"	INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
RIGHT TURN LANE	42+94 TO 47+98	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	131	1.75"	INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
CULVERT REPLACEMENTS	94+61 TO 94+96 111+60 TO 111+95	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	34	2.25"	INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
CULVERT REPLACEMENTS	94+61 TO 94+96 111+60 TO 111+95	MIDDLE LAYER	4 LT 58-28 S	4 LT 58-28 S	30	2"	INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
CULVERT REPLACEMENTS	94+61 TO 94+96 111+60 TO 111+95	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	26	1.75"	INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE

HMA PAVEMENT PWL ITEMS

CATEGORY	STATION - STATION	460.0105.S HMA PWL TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PWL TEST STRIP DENSITY EACH
0010	42+94 - 520+83	1	2

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ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CATEGORY	LOCATION	465.0120 TON
0010	STH 36	---
	HUDSON STREET	1
	COMMERCIAL STREET	1
	WHITE RIVER STATE TRAIL	2
	TOTAL	4

ASPHALTIC ITEMS

CATEGORY	STATION - STATION	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	455.0605 TACK COAT GAL
0010	47+98 - 145+50	6,520	30	4,400
	145+50 - 248+50	6,630	---	4,500
	248+50 - 351+50	6,600	---	4,500
	351+50 - 454+50	7,030	30	4,800
	454+50 - 557+07	4,970	40	3,400
	STH 36 RIGHT TURN LANE	450	---	200
	CULVERT REPLACEMENTS	90	---	40
	(1) UNDISTRIBUTED	---	420	250
	TOTALS	32,290	520	22,090

NOTE: HMA PAVEMENT WEIGHT CALCULATIONS BASED ON 112 LB/SY/IN.
TACK COAT QUANTITY IS BASED ON AN APPLICATION RATE OF 0.07 GAL/SY.
(1) FOR REMOVING DISTRESSED PAVEMENT MILLING AREAS.

ASPHALTIC FLUME ITEMS

CATEGORY	STATION	LOCATION	204.0190 REMOVING SURFACE DRAINS EACH	465.0315 ASPHALTIC FLUMES SY
0010	363+01	LT	--	2
	481+36	RT	1	11
	486+81	RT	--	11
	TOTALS		1	24

CULVERT PIPE

CATEGORY	STATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH EACH	520.1036 APRON ENDWALLS FOR CULVERT PIPE 36-INCH EACH	520.3624 CULVERT PIPE CLASS III-B NON-METAL 24-INCH LF	520.3636 CULVERT PIPE CLASS III-B NON-METAL 36-INCH LF	633.5200 MARKERS CULVERT END EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	EXISTING CULVERT DESCRIPTION
0010	94+78	1	2	---	72	---	2	1	76 FT, 18-INCH CMP
	111+77	1	---	2	---	70	2	1	78 FT, 24-INCH CMP
	TOTALS	2	2	2	72	70	4	2	

RUMBLE STRIPS

CATEGORY	STATION - STATION	LOCATION	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL LF	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF
0010	42+94 - 145+50	LT/RT	15,711	9,507
	145+50 - 248+50	LT/RT	20,270	10,127
	248+50 - 351+50	LT/RT	20,350	10,187
	351+50 - 454+50	LT/RT	19,354	9,473
	454+50 - 557+07	LT/RT	19,127	6,546
	TOTALS		94,812	45,840

SIDEWALK ITEMS

CATEGORY	LOCATION	204.0155 REMOVING CONCRETE SIDEWALK SY	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	644.1440 TEMPORARY PEDESTRIAN SURFACE MATTING SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500 CONSTRUCTION STAKING SIDEWALK 01. 3694-00-71 EACH
0010	STH 36	34	461	40	---	---	---	---	---	4	---
	STA. 51+35 RT	3	20	---	---	---	---	---	---	---	---
	HUDSON STREET	19	175	20	---	315	10	20	57	2	---
	COMMERCIAL STREET	17	162	20	---	140	10	20	128	2	---
	WHITE RIVER STATE TRAIL	6	234	44	---	---	5	10	118	2	---
	CTH D	---	346	---	93	---	---	---	---	---	---
	TOTALS	79	1,398	124	93	455	25	50	303	10	1

CONCRETE BARRIER

CATEGORY	STAGE	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF
0010	STAGE 1	IH-43 NB	430	430
	STAGE 2	IH-43 NB	---	430
	STAGE 1	IH-43 SB	---	460
	STAGE 2	IH-43 SB	495	495
	TOTALS		925	1,815

CONCRETE CURB & GUTTER

CATEGORY	STATION - STATION	204.0150 REMOVING CURB & GUTTER LF	601.0407 18-INCH TYPE D LF	601.0411 30-INCH TYPE D LF	601.0415 6-INCH SLOPED 30-INCH TYPE J LF	601.0557 6-INCH SLOPED 36-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF
0010	42+94 - 145+50	900	590	42	---	94	726
	351+50 - 454+50	205	---	---	200	---	200
	454+50 - 557+07	---	---	---	---	505	505
	TOTALS	1,105	590	42	200	599	1,431

ADJUSTING INLET COVERS

CATEGORY	STATION	LOCATION	611.8115 EACH
0010	49+14	27' LT	1

GUARDRAIL MOW STRIP EMULSIFIED ASPHALT

CATEGORY	LOCATION	614.0397 SY
0010	STH 11	41

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	PROJECT	618.0100 01. 3694-00-71 EACH
0010	3694-00-71	1

MOBILIZATION

CATEGORY	PROJECT	619.1000 EACH
0010	3694-00-71	1

MGS GUARDRAIL ITEMS

CATEGORY	STATION - STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF	614.2300 MGS GUARDRAIL 3 LF	614.2310 MGS GUARDRAIL 3 HS LF	614.2330 MGS GUARDRAIL 3 K LF	614.2340 MGS GUARDRAIL 3 L LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
0010	305+35 - 310+92	LT	228	---	---	450	---	---	2
	361+37 - 366+05	RT	196	---	---	363	---	---	2
	361+77 - 364+96	LT	188	---	---	213	---	---	2
	383+82 - 390+88	RT	571	338	13	---	113	79	2
	384+07 - 393+26	LT	795	---	---	563	113	79	2
	400+87 - 411+06	LT	717	913	---	---	---	---	2
	402+81 - 409+62	RT	642	---	---	575	---	---	2
	TOTALS		3,337	1,250	13	2,163	225	158	14

WATER

CATEGORY	STATION - STATION	LOCATION	624.0100 MGAL
0010	42+94 - 557+07	RT/LT	3

MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	PROJECT	628.1910 EACH
0010	3694-00-71	4

MOBILIZATIONS EROSION CONTROL

CATEGORY	PROJECT	628.1905 EACH
0010	3694-00-71	6

EROSION CONTROL ITEMS

CATEGORY	STATION - STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1530.S SILT FENCE HEAVY DUTY LF	628.1535.S SILT FENCE HEAVY DUTY MAINTENANCE LF	628.7005 INLET PROTECTION TYPE A 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
0010	42+94 - 48+80	STH 36 RIGHT TURN LANE	---	---	764	764	---	---	---	---	30	---	60
	48+80 - 60+00	CURB & GUTTER REPLACEMENT	---	---	---	---	---	---	1	3	20	5	5
	93+00 - 113+00	CULVERT REPLACEMENTS	8	14	267	267	76	76	---	---	10	10	90
	304+00 - 413+00	GUARDRAIL REPLACEMENTS	---	---	1,383	1,383	3,501	3,501	---	---	50	40	360
	481+00 - 487+00	R-64-37 RETAINING WALL	17	31	131	131	---	---	---	---	20	---	---
		UNDISTRIBUTED	---	---	---	---	---	---	---	---	30	6	100
	TOTALS		25	46	2,545	2,545	3,577	3,577	1	3	160	61	615

FENCE SAFETY

CATEGORY	STATION	LOCATION	616.0700.S LF	REMARKS
0010	484+61	RT	35	TREE PROTECTION
	485+22	RT	35	TREE PROTECTION
	485+58	RT	35	TREE PROTECTION
	TOTAL		105	

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FINISHING ITEMS

CATEGORY	STATION - STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0010	42+94 - 48+80	STH 36 RIGHT TURN LANE	976	976	976	--	1.4	18	--	53	22
	48+80 - 60+00	CURB & GUTTER REPLACEMENT	638	638	638	--	1.0	11	--	34	14
	93+00 - 113+00	CULVERT REPLACEMENTS	329	329	--	329	0.6	6	--	18	7
	304+00 - 413+00	GUARDRAIL REPLACEMENTS	1,530	1,530	--	1,530	2.0	28	--	83	34
	481+00 - 487+00	R-64-37 RETAINING WALL	2,111	2,111	2,111	--	2.7	16	22	114	47
		UNDISTRIBUTED	279	279	186	93	--	4	1	15	6
		TOTALS	5,863	5,863	3,911	1,952	7.7	82	23	316	130

FIELD OFFICE TYPE C

CATEGORY	PROJECT	642.5201 3694-00-71 EACH
0010	3694-00-71	1

TRAFFIC CONTROL

CATEGORY	PROJECT	643.5000 3694-00-71 EACH
0010	3694-00-71	1

TRAFFIC CONTROL AND DETOUR ITEMS

CATEGORY	STATION	STAGE	DAYS	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I NUMBER OF CYCLES	643.0910 TYPE I NUMBER OF SIGNS	643.0910 TYPE I EACH	643.0920 TYPE II NUMBER OF CYCLES	643.0920 TYPE II NUMBER OF SIGNS	643.0920 TYPE II EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY
0010	DETOUR	---	92	---	---	---	---	---	12,328	1	20	20	1	20	20	---
	ADVANCED WARNING	---	92	1,840	7,544	15,088	---	---	4,140	---	---	---	---	---	---	12
	PEDSTRIAN ACCOMMODATION	---	7	---	---	---	---	---	63	---	---	---	---	---	---	---
	STH 36	STAGES 1, 2	21	1,344	126	252	63	---	210	---	---	---	---	---	---	---
	CTH D	---	10	460	70	140	---	---	110	---	---	---	---	---	---	---
	PAVEMENT REHAB	STAGES 1, 2, 3, 4	19	266	456	912	---	---	171	---	---	---	---	---	---	---
	IH-43 NB	STAGES 1, 2	33	2,376	132	264	957	66	528	---	---	---	---	---	---	---
	IH-43 SB	STAGES 1, 2	33	4,521	165	330	1,056	66	561	---	---	---	---	---	---	---
	UNDISTRIBUTED		---	540	425	849	104	7	906	---	---	---	---	---	---	---
	TOTALS			11,347	8,918	17,835	2,180	139	19,017			20			20	12

TEMPORARY PAVEMENT MARKING ITEMS

CATEGORY	STAGE	LOCATION	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	643.3250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH WHITE LF	643.3960 TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF
0010	STAGE 1	STH 36	675	335	---	---	865	---
	STAGE 1	IH-43 NB	2,145	1,205	---	210	1,205	---
	STAGE 2	IH-43 NB	1,205	2,145	---	90	1,205	---
	STAGE 1	IH-43 SB	---	3,130	230	260	---	---
	STAGE 2	IH-43 SB	2,355	420	---	315	---	---
	STAGE 1	PAVEMENT REHAB	---	0	---	---	805	280
	STAGE 2	PAVEMENT REHAB	---	0	---	---	195	95
	SUBTOTALS		6,380	7,235	230	875	4,275	375
	TOTALS			13,615	230	875	4,275	375

PAVEMENT MARKING ITEMS

CATEGORY	STATION - STATION	646.1020 MARKING LINE EPOXY 4-INCH SOLID WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH SOLID YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH DASHED YELLOW 12.5-FOOT SEG., 37.5-FOOT GAP LF	646.1040 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH DASHED WHITE 3-FOOT SEG., 9-FOOT GAP LF	646.3020 MARKING LINE EPOXY 8-INCH MARKING LINE EPOXY 8-INCH LF	646.3040 MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE) LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	646.8120 MARKING CURB EPOXY (YELLOW) LF	646.8220 MARKING ISLAND NOSE EPOXY (YELLOW) EACH
0010	42+94 - 145+50	447	10,080	2,027	19,673	---	---	325	2	1	208	---	176	132	---	---
	145+50 - 248+50	---	11,426	1,913	20,295	---	---	---	---	---	106	---	---	---	---	---
	248+50 - 351+50	---	7,968	2,213	20,401	---	---	---	---	---	45	---	---	---	---	---
	351+50 - 454+50	---	5,668	2,340	20,340	---	310	---	---	---	134	---	---	---	95	9
	454+50 - 557+07	---	15,567	1,410	20,902	75	1,502	---	14	4	234	755	---	---	---	---
	IH-43	1,207	1,207	---	---	---	---	---	---	---	---	---	---	---	---	---
	SUBTOTALS	1,654	51,916	9,902	101,611	75	1,812	325	16	5	727	755	176	132	95	9
	TOTALS		63,472		101,611		1,887	325	16	5	727	755	176	132	95	9

LOCATING NO-PASSING ZONES

CATEGORY	STATION - STATION	648.0100 MI
0010	42+94 - 557+07	9.74

CONSTRUCTION STAKING STRUCTURE LAYOUT

CATEGORY	LOCATION	650.6501 01. R-64-37 EACH
0110	R-64-37	1

FLEXIBLE COMPOSITE RAIL SNOW FENCE 8-FT

CATEGORY	STATION - STATION	SPV.0090.01 LF
0010	144+00 - 151+90	796
	198+94 - 202+34	340
	202+62 - 214+46	1,168
	214+75 - 227+51	1,276
	TOTAL	3,580

CONSTRUCTION STAKING SUMMARY

CATEGORY	STATION - STATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	42+94 - 145+50	585	585	10,250	1,220
	145+50 - 248+50	---	---	10,300	---
	248+50 - 351+50	---	---	10,300	710
	351+50 - 454+50	---	---	10,300	3,040
	454+50 - 557+07	---	---	10,250	560
	TOTALS	585	585	51,400	5,530

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

CATEGORY	PROJECT	650.9911 01. 3694-00-71 EACH
0010	3694-00-71	1

SAWING EXISTING PAVEMENT

CATEGORY	STATION - STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	42+94 - 145+50	LT/RT	1,814	45
	145+50 - 248+50	LT/RT	---	---
	248+50 - 351+50	LT/RT	---	---
	351+50 - 454+50	LT/RT	337	---
	454+50 - 557+07	LT/RT	538	5,971
	TOTALS		2,689	6,016

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"X18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	R3-8ER		36	X	30	7.500			1	1		2	
2	W1-5L										1	1	
2A	W13-1										1	1	
3	I2-3								2	2	1		
4	J3-1								1	1	1		
5	R1-2							1	1				
6	R1-1								1	1	2		MOVE ALL WAY PLAQUE ALSO
7	R1-1								1	1	2		MOVE ALL WAY PLAQUE ALSO
8	R1-1								1	1	1		
9	R7-1R								1	1	1		
10	R1-1								1	1	1		
11	R12-53								1	1	1		
12	R1-1								1	1	2		MOVE ALL WAY PLAQUE ALSO
13	J3-1								1	1	1		
14	R1-1(2S)		30	X	30	6.250				1			
14A	R1-3P(2S)		18	X	6	0.750						14	
15	R1-1								1	1	2		MOVE ALL WAY PLAQUE ALSO
16	R1-1								1	1	2		MOVE ALL WAY PLAQUE ALSO
17	R1-1								1	1	2		MOVE ALL WAY PLAQUE ALSO
18	R1-1								1	1	1		
19	W11-15A								1	1	2		MOVE THE PLAQUE ALSO
20	W11-15A								1	1	2		MOVE THE PLAQUE ALSO
21	NONE	TRAIL SIGN							1	1	1		
22	D1	STREET NAME SIGN							1	1	1		
23	R1-1								1	1	1		
24	W11-3							1	1				INCLUDES REMOVAL OF PLAQUE
25	W1-7(2S)		24	X	48		8.000			1			
26	W5-52R(2S)		12	X	36		3.000	1	1	1			4 FOOT MOUNTING HEIGHT
27	W5-52R(2S)		12	X	36		3.000	1	1	1			4 FOOT MOUNTING HEIGHT
28	W5-52L(2S)		12	X	36		3.000	1	1	1			4 FOOT MOUNTING HEIGHT
29	W5-52R(2S)		12	X	36		3.000	1	1	1			4 FOOT MOUNTING HEIGHT
30	W5-52L(2S)		12	X	36		3.000	1	1	1			4 FOOT MOUNTING HEIGHT

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"X18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
31	W5-52R(2S)		12	X	36		3.000	1	1	1			4 FOOT MOUNTING HEIGHT
32	W5-52R(2S)		12	X	36		3.000	1	1	1			4 FOOT MOUNTING HEIGHT
33	W5-52R(2S)		12	X	36		3.000	1	1	1			4 FOOT MOUNTING HEIGHT
34	D1-1	ALPINE VALLEY ARROW RIGHT	90	X	15	9.375			1	2			SIGN MISSING
35	R7-1D								1	1	2		MOVE ADOPT A HIGHWAY SIGN ALSO
													SHEET 1
36	R2-1								1	1	1		
37	W3-1								1	1	1		SHEET 1
38	D1-3								2	2	1		SHEET 1
39	J4-1								1	1	1		SHEET 1
40	R1-1										1		MOVE TO NEW BEACON POLE - SEE SOLAR ASSEMBLY QTYS
40A	R1-3P										1		MOVE TO NEW BEACON POLE - SEE SOLAR ASSEMBLY QTYS
41	J3-2								1	1	1		
42	J3-1								1	1	1		
43	R1-1										1		MOVE TO NEW BEACON POLE. SEE SOLAR ASSEMBLY QTYS
43A	R1-3P										1		MOVE TO NEW BEACON POLE. SEE SOLAR ASSEMBLY QTYS
44	J3-2								1	1	1		
45	R1-1										1		MOVE TO NEW BEACON POLE. SEE SOLAR ASSEMBLY QTYS
45A	R1-3P										1		MOVE TO NEW BEACON POLE. SEE SOLAR ASSEMBLY QTYS
46	J3-2								1	1	1		
47	R1-1										1		MOVE TO NEW BEACON POLE. SEE SOLAR ASSEMBLY QTYS
47A	R1-3P										1		MOVE TO NEW BEACON POLE. SEE SOLAR ASSEMBLY QTYS
48	R5-1							1	1				SHEET 1
49	R1-1								1	1	1		SHEET 27
49A	R1-3P										1	49	SHEET 27
50	R1-1								1	1	1		SHEET 27
50A	R1-3P										1	50	SHEET 27
51	W12-1D								1	1	1		SHEET 27, 2 FOOT MOUNTING HEIGHT
52	R1-1								1	1	1		SHEET 27
52A	R1-3P										1	52	SHEET 27
53	R1-1								1	1	1		SHEET 27
53A	R1-3P										1	53	SHEET 27
	UNDISTRIBUTED					60.000	60.000	4	4	4	10		
	TOTALS					83.875	92.000	15	52	52	66		

STH 11 & STH 120
WALWORTH COUNTY
CATEGORY 0010
F64-0304

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
SB2	1
SB3	1
SB4	1
TOTAL	4

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.01 REMOVING TRAFFIC SIGNALS EACH
STH 11 & STH 120	1
TOTAL	1

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
TOTAL	4

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
TRAFFIC SIGNAL, ONE SECTION	4
TOTAL	4

LAMP, BALLAST, LED, SWITCH DISPOSAL (FOR INFORMATION ONLY)

SIGNAL BASE NO.	TRAFFIC SIGNAL, ONE SECTION EACH
SB1	1
SB2	1
SB3	1
SB4	1
TOTAL	4

STOP SIGN BEACONS MISC QUANTITIES				3694-00-71		
LOCATION		Stop Sign	Stop Sign	Stop Sign	Stop Sign	
		Traffic Flashing Beacon System, Solar	Traffic Flashing Beacon System, Solar	Traffic Flashing Beacon System, Solar	Traffic Flashing Beacon System, Solar	
		STH 120 SB at STH 11	STH 120 NB at STH 11	STH 11 WB at STH 120	STH 11 EB at STH 120	
		Each	Each	Each	Each	
		SPV.0060.01	SPV.0060.02	SPV.0060.03	SPV.0060.04	
STH 120 SB AT STH 11		1				
STH 120 NB AT STH 11			1			
STH 11 WB AT STH 120				1		
STH 11 EB AT STH 120					1	

3

SHEET 1 OF 1

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	MISCELLANEOUS QUANTITIES – STOP SIGN SOLAR BEACONS	SHEET:	E

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

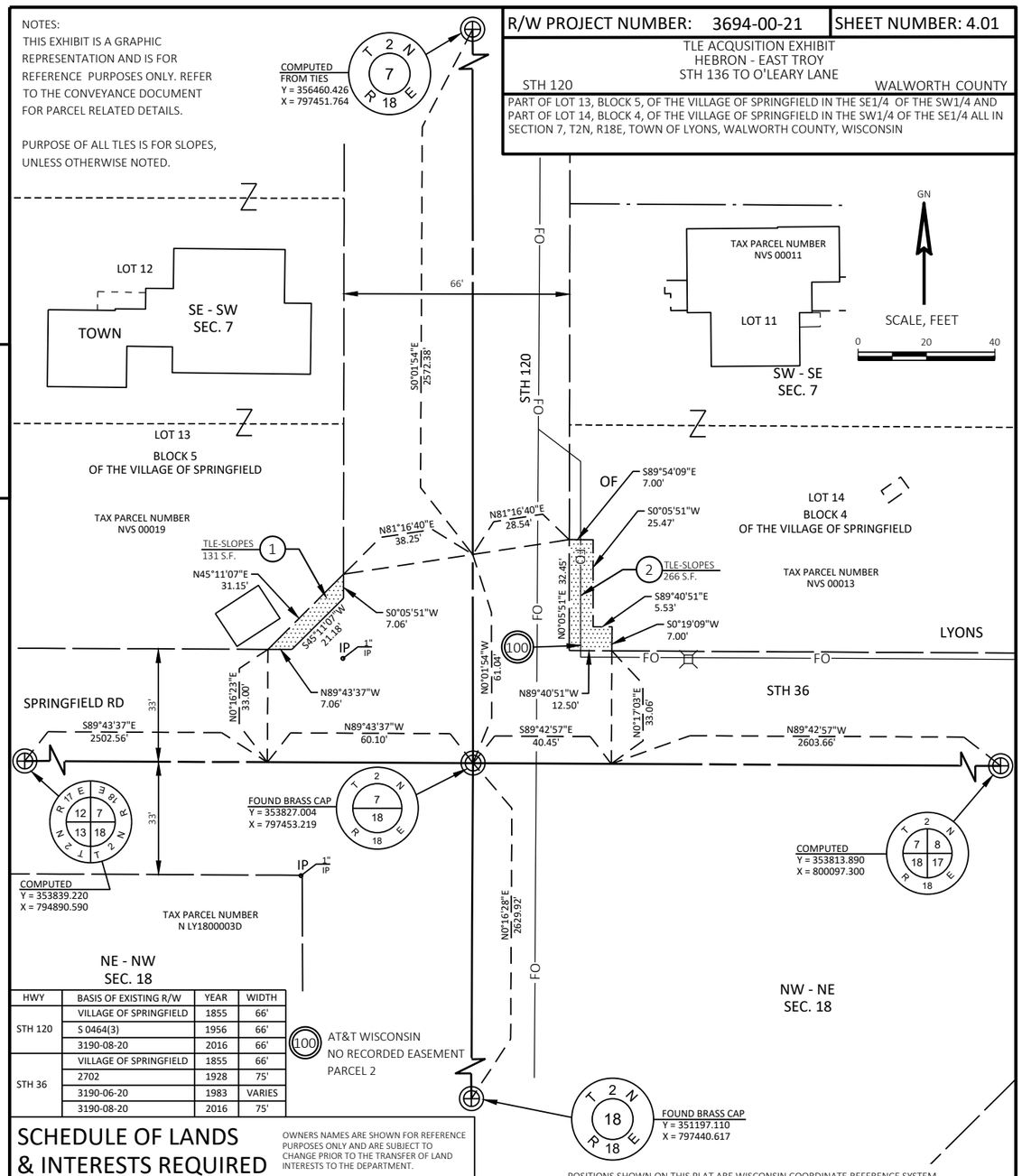
PURPOSE OF ALL TLES IS FOR SLOPES, UNLESS OTHERWISE NOTED.

R/W PROJECT NUMBER: 3694-00-21	SHEET NUMBER: 4.01

TLE ACQUISITION EXHIBIT
HEBRON - EAST TROY
STH 136 TO O'LEARY LANE

STH 120 — WALWORTH COUNTY

PART OF LOT 13, BLOCK 5, OF THE VILLAGE OF SPRINGFIELD IN THE SE1/4 OF THE SW1/4 AND PART OF LOT 14, BLOCK 4, OF THE VILLAGE OF SPRINGFIELD IN THE SW1/4 OF THE SE1/4 ALL IN SECTION 7, T2N, R18E, TOWN OF LYONS, WALWORTH COUNTY, WISCONSIN



HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 120	VILLAGE OF SPRINGFIELD	1855	66'
	S 0464(3)	1956	66'
	3190-08-20	2016	66'
STH 36	VILLAGE OF SPRINGFIELD	1855	66'
	2702	1928	75'
	3190-06-20	1983	VARIES
	3190-08-20	2016	75'

100 AT&T WISCONSIN
NO RECORDED EASEMENT
PARCEL 2

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
1	TJP INVESTMENTS INC.	TLE	131
2	JAMES AND JUDITH HALPIN REVOCABLE TRUST	TLE	266

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	AT&T WISCONSIN	TEMPORARY RELEASE OF RIGHTS

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

THIS EXHIBIT IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 05/24/22

PRINT NAME: Robert L. Duffeck

REVISED 11/2/2022

FILE NAME : 040101_RP.DWG PLOT DATE : 11/2/2022 2:47 PM R/W PROJECT: 3694-00-21

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

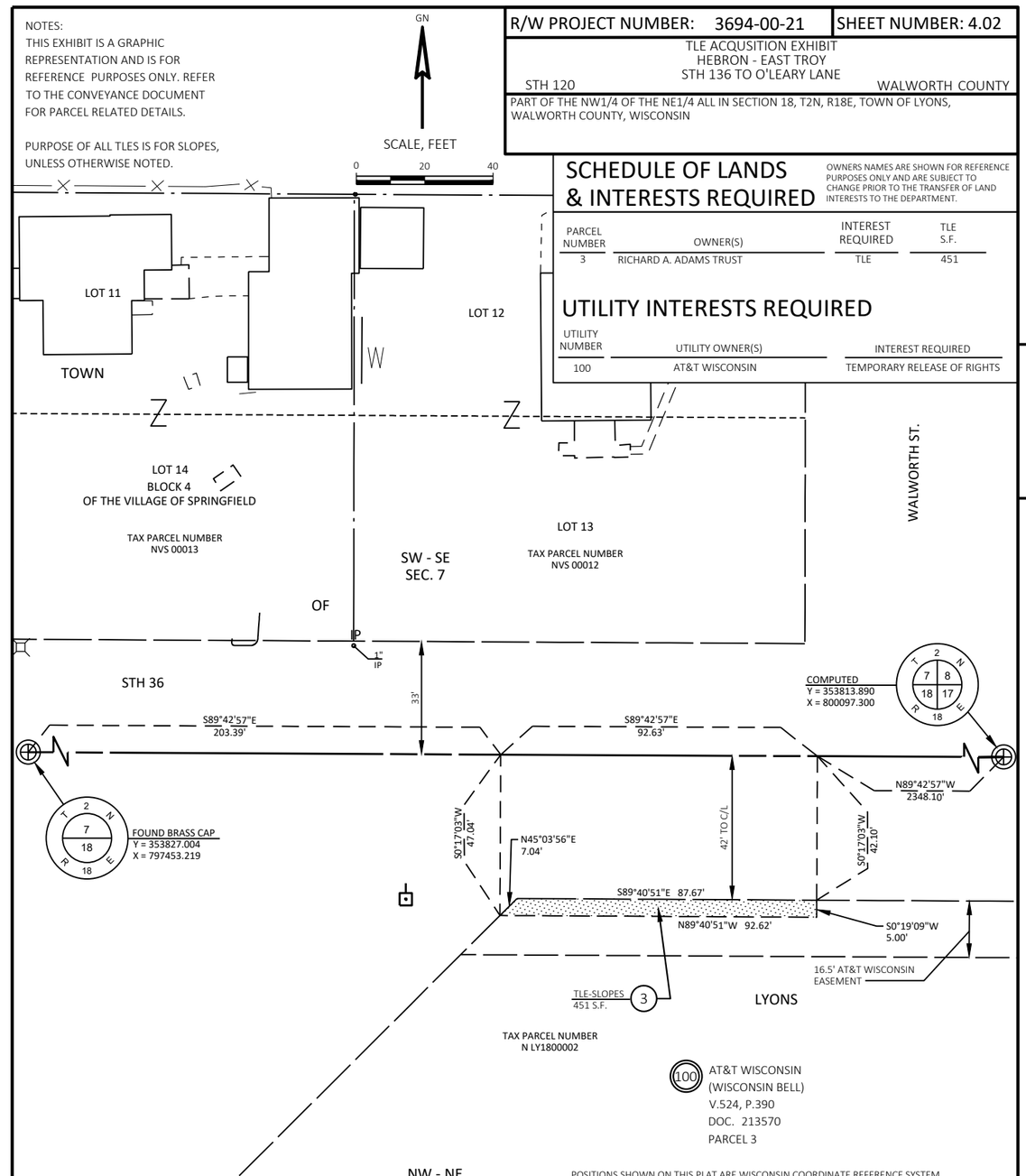
PURPOSE OF ALL TLES IS FOR SLOPES, UNLESS OTHERWISE NOTED.

R/W PROJECT NUMBER: 3694-00-21	SHEET NUMBER: 4.02

TLE ACQUISITION EXHIBIT
HEBRON - EAST TROY
STH 136 TO O'LEARY LANE

STH 120 — WALWORTH COUNTY

PART OF THE NW1/4 OF THE NE1/4 ALL IN SECTION 18, T2N, R18E, TOWN OF LYONS, WALWORTH COUNTY, WISCONSIN



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
3	RICHARD A. ADAMS TRUST	TLE	451

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	AT&T WISCONSIN	TEMPORARY RELEASE OF RIGHTS

HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 36	VILLAGE OF SPRINGFIELD	1855	66'
	2702	1928	75'
	3190-06-20	1983	VARIES
	3190-08-20	2016	VARIES

100 AT&T WISCONSIN
(WISCONSIN BELL)
V.524, P.390
DOC. 213570
PARCEL 3

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

THIS EXHIBIT IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 05/24/22

PRINT NAME: Robert L. Duffeck

REVISED 11/2/2022

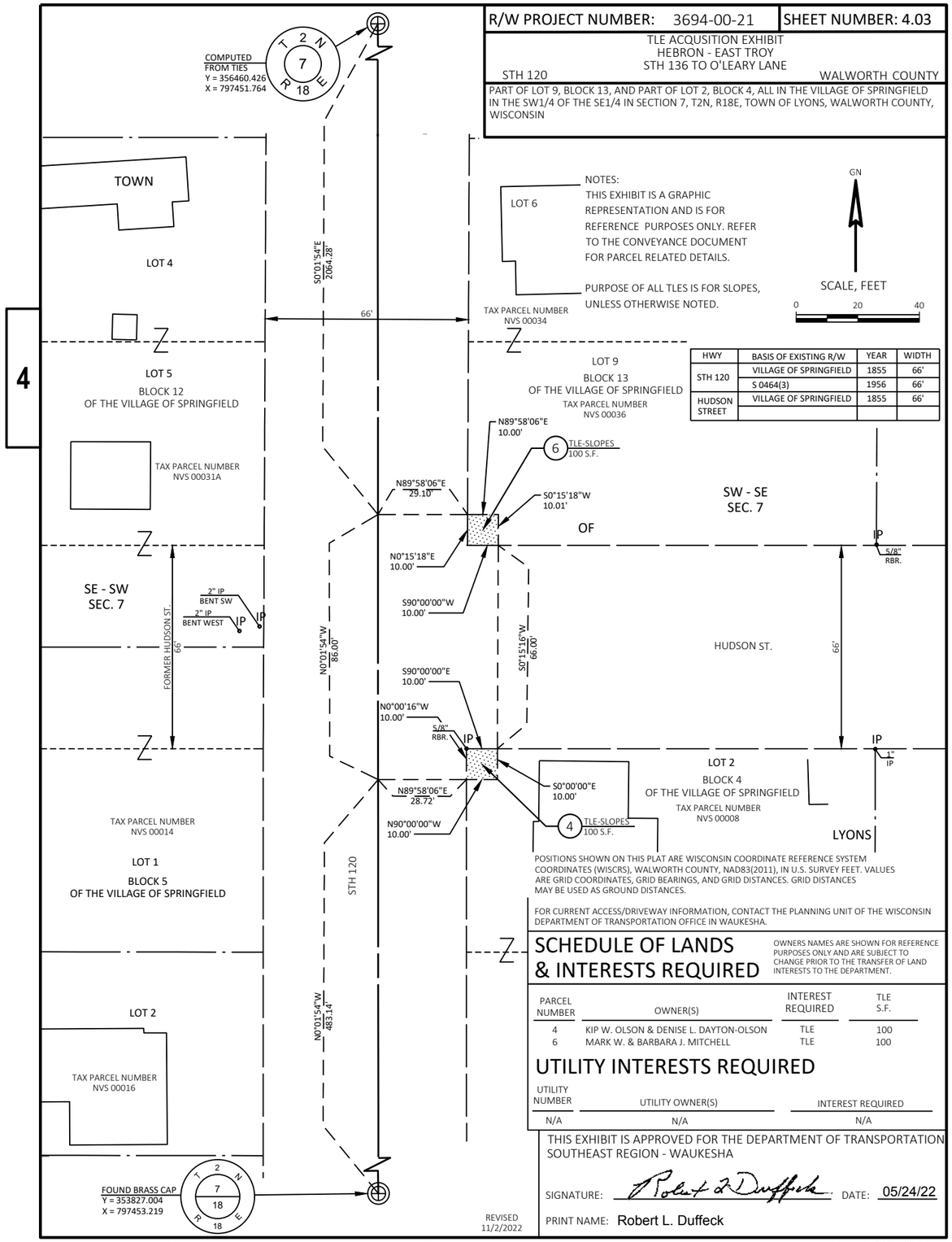
FILE NAME : 040101_RP.DWG PLOT DATE : 11/2/2022 2:47 PM R/W PROJECT: 3694-00-21

R/W PROJECT NUMBER: 3694-00-21	SHEET NUMBER: 4.03

TLE ACQUISITION EXHIBIT
HEBRON - EAST TROY
STH 136 TO O'LEARY LANE

STH 120 — WALWORTH COUNTY

PART OF LOT 9, BLOCK 13, AND PART OF LOT 2, BLOCK 4, ALL IN THE VILLAGE OF SPRINGFIELD IN THE SW1/4 OF THE SE1/4 IN SECTION 7, T2N, R18E, TOWN OF LYONS, WALWORTH COUNTY, WISCONSIN



HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 120	VILLAGE OF SPRINGFIELD	1855	66'
	S 0464(3)	1956	66'
HUDSON STREET	VILLAGE OF SPRINGFIELD	1855	66'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
4	KIP W. OLSON & DENISE L. DAYTON-OLSON	TLE	100
6	MARK W. & BARBARA J. MITCHELL	TLE	100

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
N/A	N/A	N/A

THIS EXHIBIT IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 05/24/22

PRINT NAME: Robert L. Duffeck

REVISED 11/2/2022

FILE NAME : 040101_RP.DWG PLOT DATE : 11/2/2022 2:48 PM R/W PROJECT: 3694-00-21

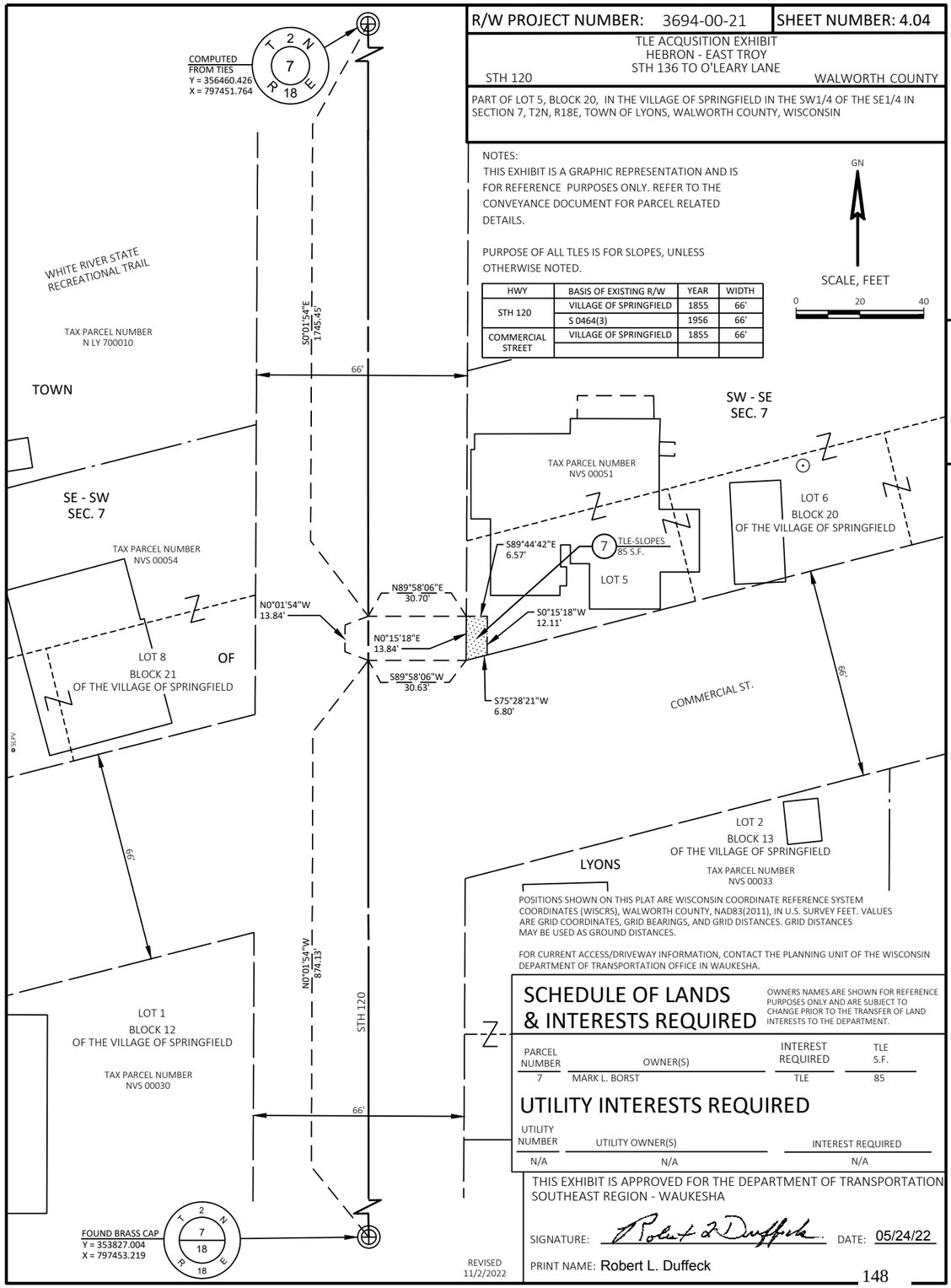
4

R/W PROJECT NUMBER: 3694-00-21	SHEET NUMBER: 4.04

TLE ACQUISITION EXHIBIT
HEBRON - EAST TROY
STH 136 TO O'LEARY LANE

STH 120 — WALWORTH COUNTY

PART OF LOT 5, BLOCK 20, IN THE VILLAGE OF SPRINGFIELD IN THE SW1/4 OF THE SE1/4 IN SECTION 7, T2N, R18E, TOWN OF LYONS, WALWORTH COUNTY, WISCONSIN



HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 120	VILLAGE OF SPRINGFIELD	1855	66'
	S 0464(3)	1956	66'
COMMERCIAL STREET	VILLAGE OF SPRINGFIELD	1855	66'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
7	MARK L. BORST	TLE	85

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
N/A	N/A	N/A

THIS EXHIBIT IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 05/24/22

PRINT NAME: Robert L. Duffeck

REVISED 11/2/2022

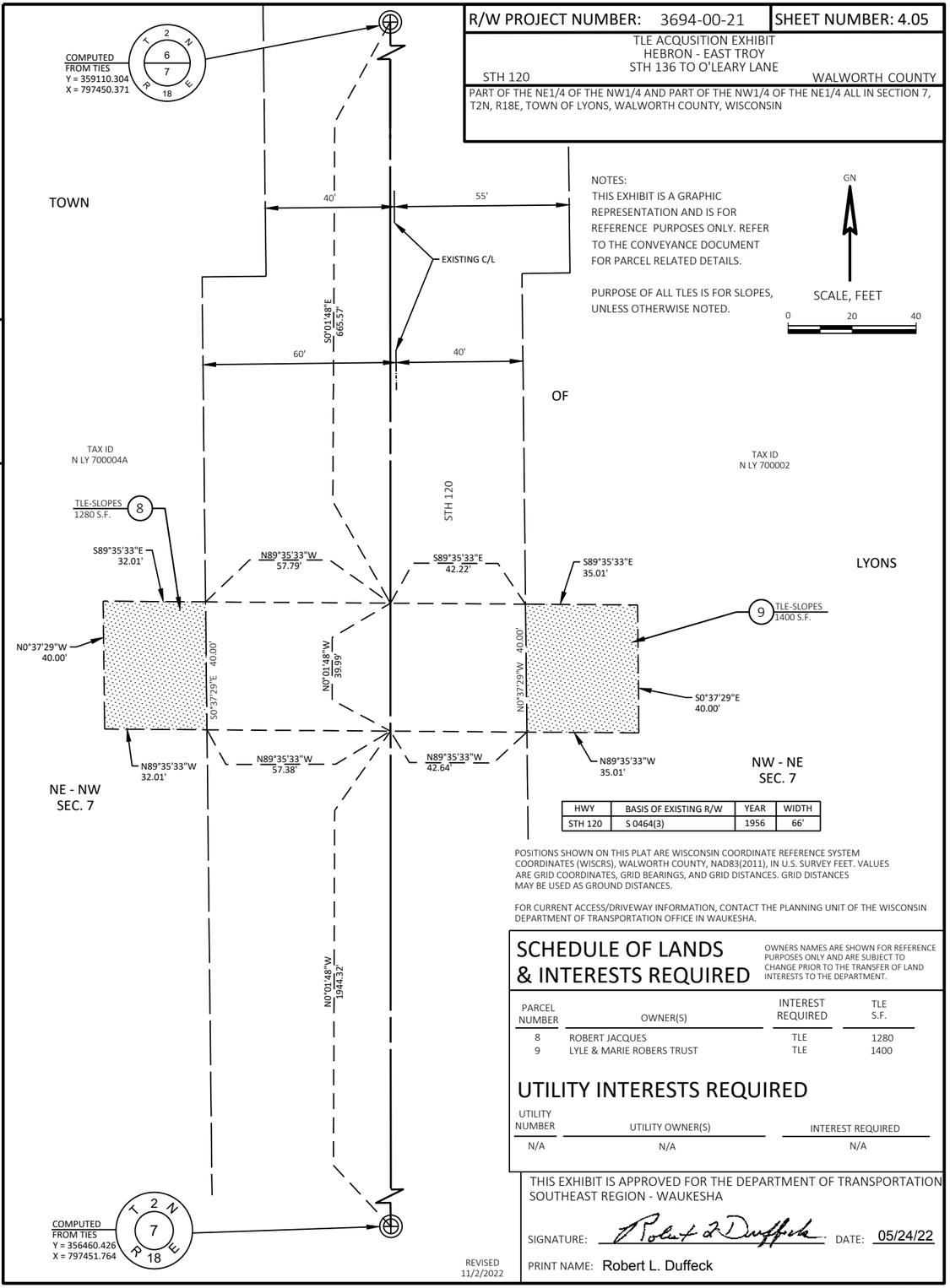
FILE NAME : 040101_RP.DWG PLOT DATE : 11/2/2022 2:48 PM R/W PROJECT: 3694-00-21

R/W PROJECT NUMBER: 3694-00-21 | SHEET NUMBER: 4.05

TLE ACQUISITION EXHIBIT
HEBRON - EAST TROY
STH 136 TO O'LEARY LANE

STH 120 — WALWORTH COUNTY

PART OF THE NE1/4 OF THE NW1/4 AND PART OF THE NW1/4 OF THE NE1/4 ALL IN SECTION 7, T2N, R18E, TOWN OF LYONS, WALWORTH COUNTY, WISCONSIN



NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

PURPOSE OF ALL TLES IS FOR SLOPES, UNLESS OTHERWISE NOTED.

HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 120	S 0464(3)	1956	66'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
8	ROBERT JACQUES	TLE	1280
9	LYLE & MARIE ROBERS TRUST	TLE	1400

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
N/A	N/A	N/A

THIS EXHIBIT IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 05/24/22

PRINT NAME: Robert L. Duffeck

REVISED 11/2/2022

FILE NAME : 040101_RP.DWG PLOT DATE : 11/2/2022 2:49 PM R/W PROJECT: 3694-00-21

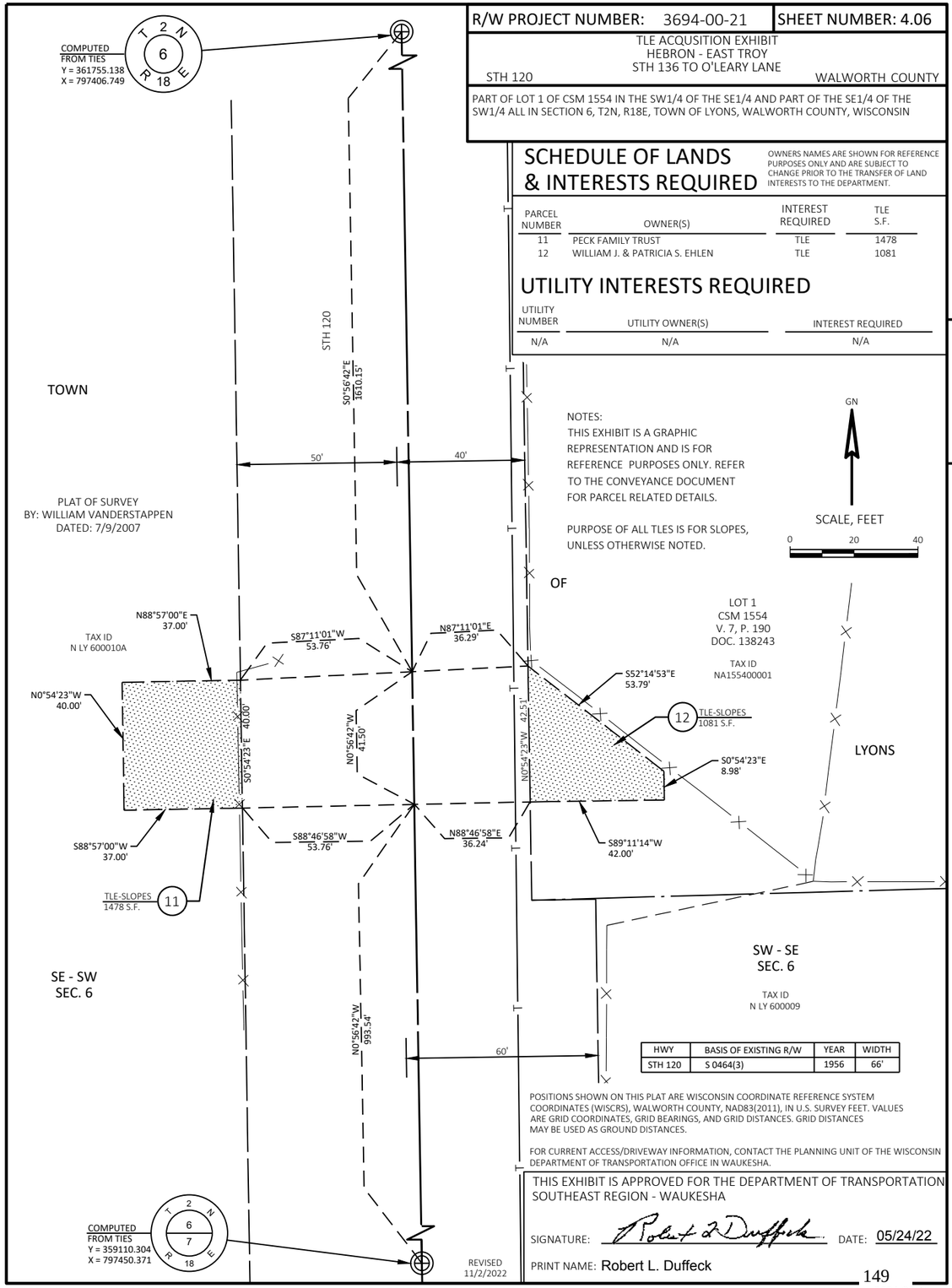
4

R/W PROJECT NUMBER: 3694-00-21 | SHEET NUMBER: 4.06

TLE ACQUISITION EXHIBIT
HEBRON - EAST TROY
STH 136 TO O'LEARY LANE

STH 120 — WALWORTH COUNTY

PART OF LOT 1 OF CSM 1554 IN THE SW1/4 OF THE SE1/4 AND PART OF THE SE1/4 OF THE SW1/4 ALL IN SECTION 6, T2N, R18E, TOWN OF LYONS, WALWORTH COUNTY, WISCONSIN



NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

PURPOSE OF ALL TLES IS FOR SLOPES, UNLESS OTHERWISE NOTED.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
11	PECK FAMILY TRUST	TLE	1478
12	WILLIAM J. & PATRICIA S. EHLEN	TLE	1081

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
N/A	N/A	N/A

HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 120	S 0464(3)	1956	66'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

THIS EXHIBIT IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 05/24/22

PRINT NAME: Robert L. Duffeck

REVISED 11/2/2022

FILE NAME : 040101_RP.DWG PLOT DATE : 11/2/2022 2:49 PM R/W PROJECT: 3694-00-21

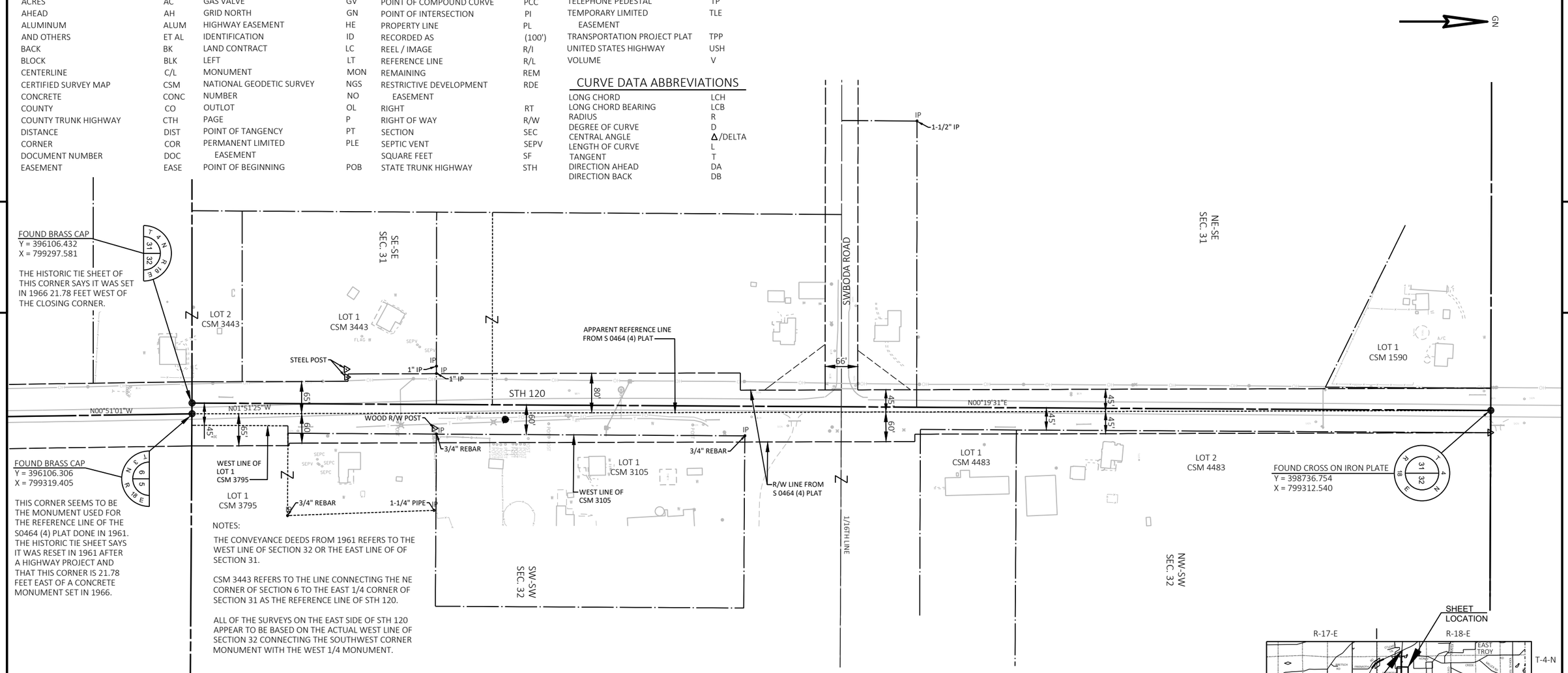
4

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	EXISTING	EX	POINT OF CURVATURE	PC	STATION	STA
ACRES	AC	GAS VALVE	GV	POINT OF COMPOUND CURVE	PCC	TELEPHONE PEDESTAL	TP
AHEAD	AH	GRID NORTH	GN	POINT OF INTERSECTION	PI	TEMPORARY LIMITED EASEMENT	TLE
ALUMINUM	ALUM	HIGHWAY EASEMENT	HE	PROPERTY LINE	PL	TRANSPORTATION PROJECT PLAT	TPP
AND OTHERS	ET AL	IDENTIFICATION	ID	RECORDED AS	(100')	UNITED STATES HIGHWAY	USH
BACK	BK	LAND CONTRACT	LC	REEL / IMAGE	R/I	VOLUME	V
BLOCK	BLK	LEFT	LT	REFERENCE LINE	R/L		
CENTERLINE	C/L	MONUMENT	MON	REMAINING	REM		
CERTIFIED SURVEY MAP	CSM	NATIONAL GEODETIC SURVEY	NGS	RESTRICTIVE DEVELOPMENT EASEMENT	RDE		
CONCRETE	CONC	NUMBER	NO	RIGHT	RT		
COUNTY	CO	OUTLOT	OL	RIGHT OF WAY	R/W		
COUNTY TRUNK HIGHWAY	CTH	PAGE	P	SECTION	SEC		
DISTANCE	DIST	POINT OF TANGENCY	PT	SEPTIC VENT	SEPV		
CORNER	COR	PERMANENT LIMITED EASEMENT	PLE	SQUARE FEET	SF		
DOCUMENT NUMBER	DOC			STATE TRUNK HIGHWAY	STH		
EASEMENT	EASE	POINT OF BEGINNING	POB				

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB



NOTES:

THE CONVEYANCE DEEDS FROM 1961 REFERS TO THE WEST LINE OF SECTION 32 OR THE EAST LINE OF OF SECTION 31.

CSM 3443 REFERS TO THE LINE CONNECTING THE NE CORNER OF SECTION 6 TO THE EAST 1/4 CORNER OF SECTION 31 AS THE REFERENCE LINE OF STH 120.

ALL OF THE SURVEYS ON THE EAST SIDE OF STH 120 APPEAR TO BE BASED ON THE ACTUAL WEST LINE OF SECTION 32 CONNECTING THE SOUTHWEST CORNER MONUMENT WITH THE WEST 1/4 MONUMENT.

CONVENTIONAL SYMBOLS

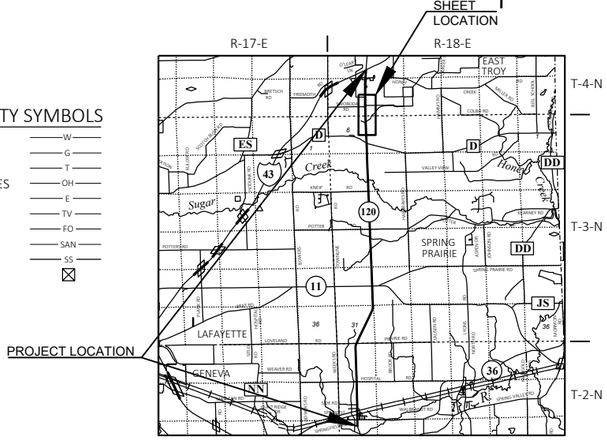
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- NEW REFERENCE LINE
- NEW R/W LINE
- EXISTING R/W OR HE LINE
- PROPERTY LINE (P.L.)
- LOT, TIE & OTHER MINOR LINES
- SLOPE INTERCEPT
- BRIDGE
- CULVERT
- CORPORATE LIMITS
- UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) (W (TYPE))
- NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
- TEMPORARY LIMITED EASEMENT AREA
- EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
- TRANSMISSION STRUCTURES
- BUILDING
- TO BE REMOVED
- SECTION CORNER SYMBOL
- SECTION CORNER MONUMENT
- R/W MONUMENT (TO BE SET)
- NON-MONUMENTED R/W POINT
- FOUND IRON PIN (1-INCH UNLESS NOTED) (IP)
- GEODETIC SURVEY MONUMENT
- SIXTEENTH CORNER MONUMENT
- SIGN
- OFF-PREMISE SIGN (#1-25)

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

- ACCESS RESTRICTED BY ACQUISITION
- NO ACCESS (BY STATUTORY AUTHORITY)
- ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
- NO ACCESS (NEW HIGHWAY)
- PARCEL NUMBER (25)
- UTILITY NUMBER (40)
- PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	



REVISION DATE 11/2/2022	DATE 3/30/2022	SCALE, FEET 0 100' 200'	HWY: STH 120	STATE R/W PROJECT NUMBER 3694-00-21	PLAT SHEET 4.07
	GRID FACTOR N/A		COUNTY: WALWORTH	CONSTRUCTION PROJECT NUMBER 3694-00-71	PS&E SHEET 150 E

FILE NAME : 040101_RP.DWG
LAYOUT NAME - 040104

PLOT DATE : 11/2/2022 2:52 PM PLOT BY : BARTELT, HEATHER PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	EXISTING	EX	POINT OF CURVATURE	PC	STATION	STA
ACRES	AC	GAS VALVE	GV	POINT OF COMPOUND CURVE	PCC	TELEPHONE PEDESTAL	TP
AHEAD	AH	GRID NORTH	GN	POINT OF INTERSECTION	PI	TEMPORARY LIMITED EASEMENT	TLE
ALUMINUM	ALUM	HIGHWAY EASEMENT	HE	PROPERTY LINE	PL	TRANSPORTATION PROJECT PLAT	TPP
AND OTHERS	ET AL	IDENTIFICATION	ID	RECORDED AS	(100')	UNITED STATES HIGHWAY	USH
BACK	BK	LAND CONTRACT	LC	REEL / IMAGE	R/I	VOLUME	V
BLOCK	BLK	LEFT	LT	REFERENCE LINE	R/L		
CENTERLINE	C/L	MONUMENT	MON	REMAINING	REM		
CERTIFIED SURVEY MAP	CSM	NATIONAL GEODETIC SURVEY	NGS	RESTRICTIVE DEVELOPMENT EASEMENT	RDE		
CONCRETE	CONC	NUMBER	NO	RIGHT	RT		
COUNTY	CO	OUTLOT	OL	RIGHT OF WAY	R/W		
COUNTY TRUNK HIGHWAY	CTH	PAGE	P	SECTION	SEC		
DISTANCE	DIST	POINT OF TANGENCY	PT	SEPTIC VENT	SEPV		
CORNER	COR	PERMANENT LIMITED EASEMENT	PLE	SQUARE FEET	SF		
DOCUMENT NUMBER	DOC	POINT OF BEGINNING	POB	STATE TRUNK HIGHWAY	STH		
EASEMENT	EASE						

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
13	MICHAEL L. & DAWN M. DUDENHOEFER	TLE	1566
14	ANDREW W. & MARY J. SWAYZE	TLE	6975

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
N/A	N/A	N/A

HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 120	S 0464(4)	1961	140'

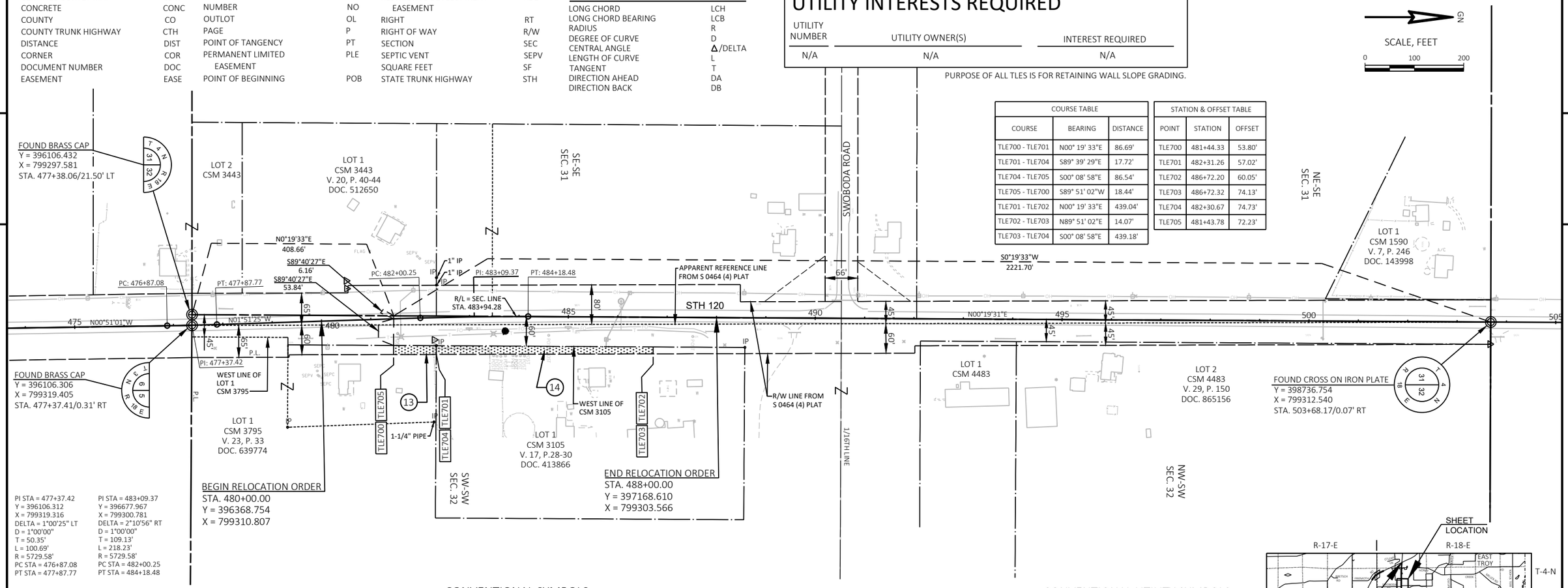
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

PURPOSE OF ALL TLES IS FOR RETAINING WALL SLOPE GRADING.

COURSE TABLE		
COURSE	BEARING	DISTANCE
TLE700 - TLE701	N00° 19' 33"E	86.69'
TLE701 - TLE704	S89° 39' 29"E	17.72'
TLE704 - TLE705	S00° 08' 58"E	86.54'
TLE705 - TLE700	S89° 51' 02"W	18.44'
TLE701 - TLE702	N00° 19' 33"E	439.04'
TLE702 - TLE703	N89° 51' 02"E	14.07'
TLE703 - TLE704	S00° 08' 58"E	439.18'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
TLE700	481+44.33	53.80'
TLE701	482+31.26	57.02'
TLE702	486+72.20	60.05'
TLE703	486+72.32	74.13'
TLE704	482+30.67	74.73'
TLE705	481+43.78	72.23'



CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
BRIDGE
CULVERT

CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
TO BE REMOVED

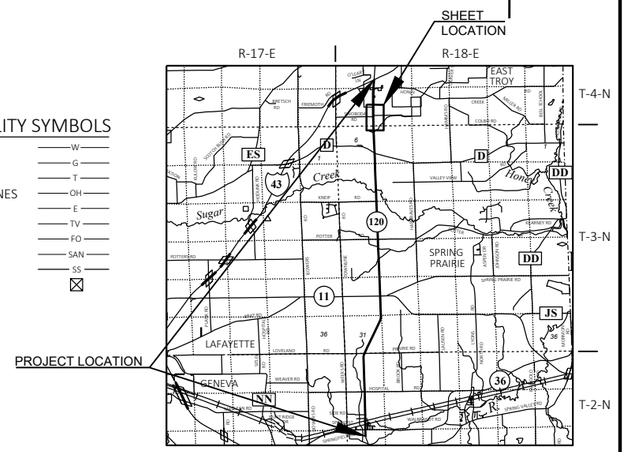
SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (3/4-INCH REBAR UNLESS NOTED)
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25)
UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER — W
GAS — G
TELEPHONE — T
OVERHEAD TRANSMISSION LINES — OH
ELECTRIC — E
CABLE TELEVISION — TV
FIBER OPTIC — FO
SANITARY SEWER — SAN
STORM SEWER — SS
ELECTRIC TOWER



REVISION DATE 11/2/2022	DATE 3/30/2022	SCALE, FEET 0 100' 200'	HWY: STH 120	STATE R/W PROJECT NUMBER 3694-00-21	PLAT SHEET 4.08
	GRID FACTOR N/A		COUNTY: WALWORTH	CONSTRUCTION PROJECT NUMBER 3694-00-71	PS&E SHEET 151 E

FILE NAME : 040101_RP.DWG
LAYOUT NAME - 040108
PLOT DATE : 11/2/2022 2:58 PM
PLOT BY : BARTELT, HEATHER
PLOT NAME :
PLOT SCALE :

WISDOT/CADDS SHEET 75



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN	SHEET 152	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050201-pn

PLOT DATE : 12/15/2022 1:04 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



5 5

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN	SHEET 153 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050202-pn

PLOT DATE : 12/15/2022 1:04 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

MATCHLINE STA. 160+00

MATCHLINE STA. 190+00

165 170 175 180 185

N26° 34' 37"E

STH 120

5

5

MATCHLINE STA. 190+00

MATCHLINE STA. 220+00

STH 120

195 200 205 210 215

N26° 34' 37"E

N1° 16' 54"W

FLEXIBLE COMPOSITE RAIL
SNOW FENCE 8-FOOT REQ'D.
SEE FENCING PLAN FOR
ADDITIONAL INFORMATION.

PC: 205+35.21
X = 799,728.77
Y = 368,935.94

PT: 212+78.10
X = 799,889.83
Y = 369,653.69

CURVE 2

CURVE 2
PI STA = 209+14.15
X = 799,898.31
Y = 369,274.85
DELTA = 27°51'31"
D = 3°45'00"
T = 378.94'
L = 742.90'
R = 1,527.89'
PC STA = 205+35.21
X = 799,728.77
Y = 368,935.94
PT STA = 212+78.10
X = 799,889.83
Y = 369,653.69
SE = MATCH EXISTING SUPERELEVATION
AND SUPERELEVATION TRANSITIONS

T 03 N
30 29
31 32
R 18 E

EXISTING MONUMENT (TO REMAIN)
CONCRETE MONUMENT

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN	SHEET 154	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050203-pn

PLOT DATE : 12/15/2022 1:04 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN	SHEET 155 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050204-pn

PLOT DATE : 12/15/2022 1:04 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN	SHEET 156	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050205-pn

PLOT DATE : 12/15/2022 1:04 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:200 FT

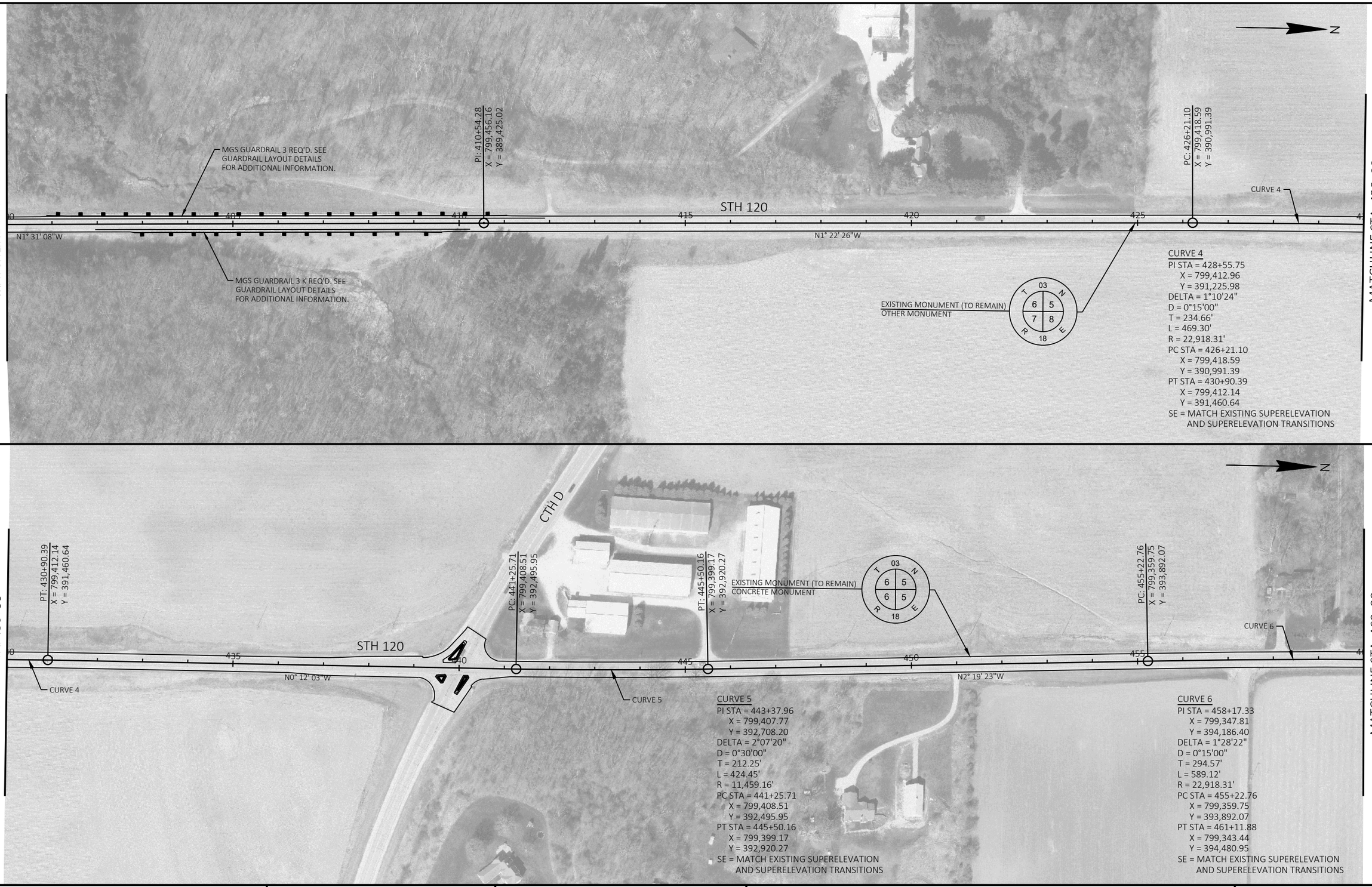
WISDOT/CADDS SHEET 44



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN	SHEET 157	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050206-pn

PLOT DATE : 12/15/2022 1:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:200 FT



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN	SHEET 158	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050207-pn
PLOT DATE : 12/15/2022 1:05 PM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN	SHEET 159 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050208-pn
PLOT DATE : 12/15/2022 1:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	PLAN	SHEET 160 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050209-pn

PLOT DATE : 12/15/2022 1:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

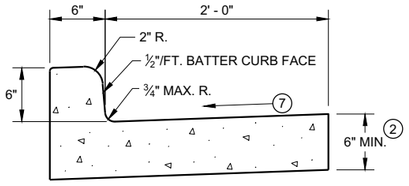
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D19-03	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
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
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-14B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C09-17A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-17B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-17C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C19-03	HMA LONGITUDINAL JOINTS
14B07-16A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16J	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16K	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16L	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16M	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16N	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
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
14B43-04A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

6

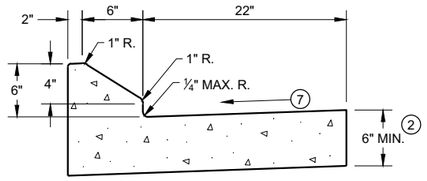
Standard Detail Drawing List

14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C08-22B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-07A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-07B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-07C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C26-04	END-OF-ROADWAY SIGNING
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15D12-10A	TRAFFIC CONTROL, LANE CLOSURE
15D15-06E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-05	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-08A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-08C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D40-04B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D40-04D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D50-02A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT

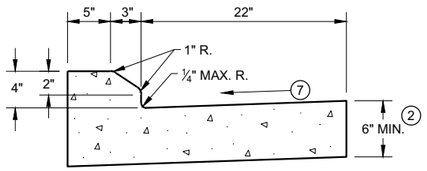
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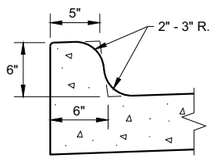
TYPES A (1) & D



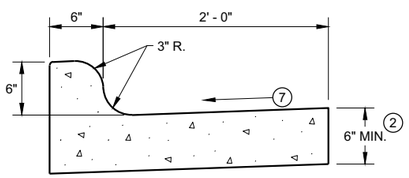
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

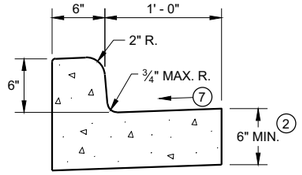


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



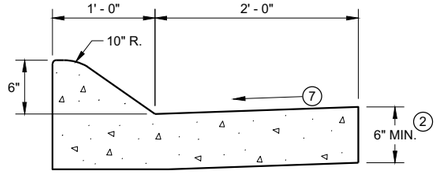
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"



TYPES A (1) & D

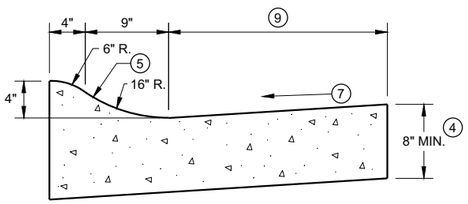
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

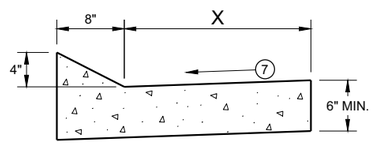
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

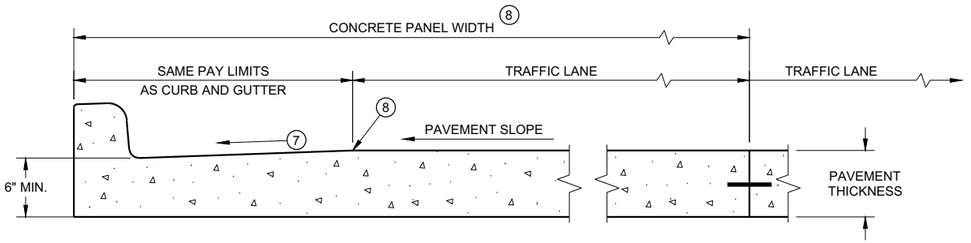


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

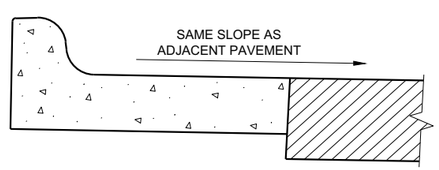
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

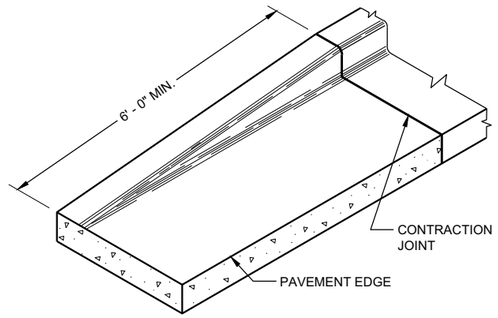
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

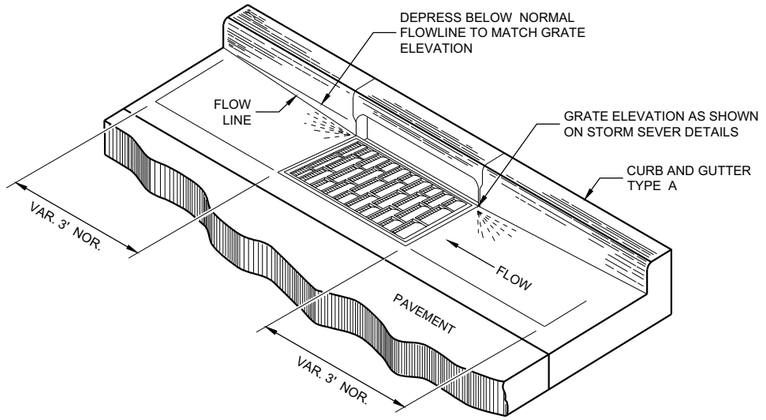
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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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.

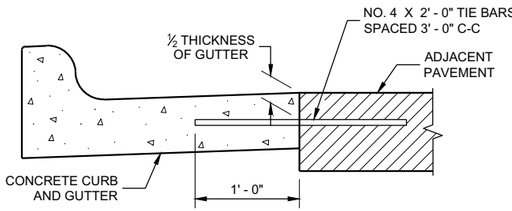
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

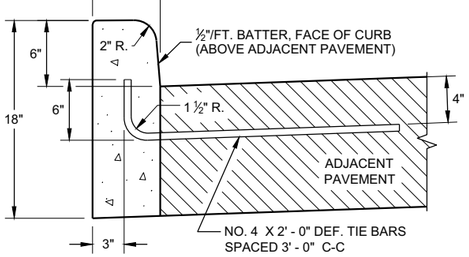
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(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.

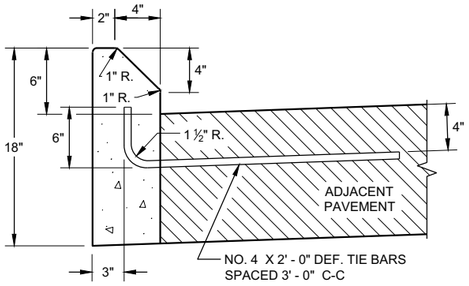
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

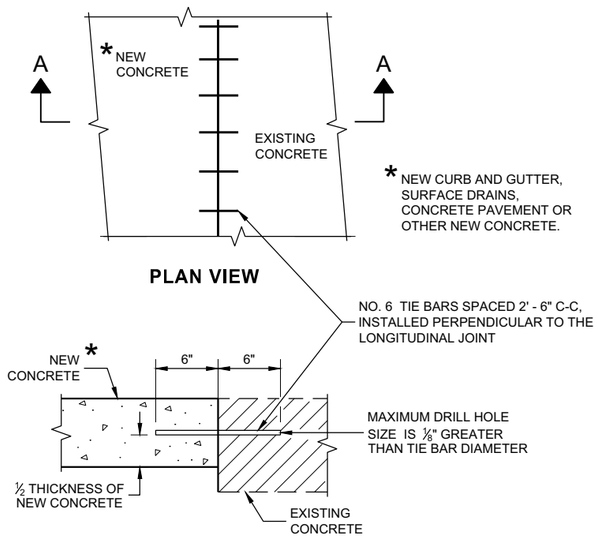


TYPES A (1) & D

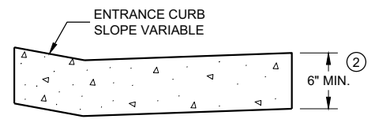


TYPES G (1) & J

CONCRETE CURB



TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

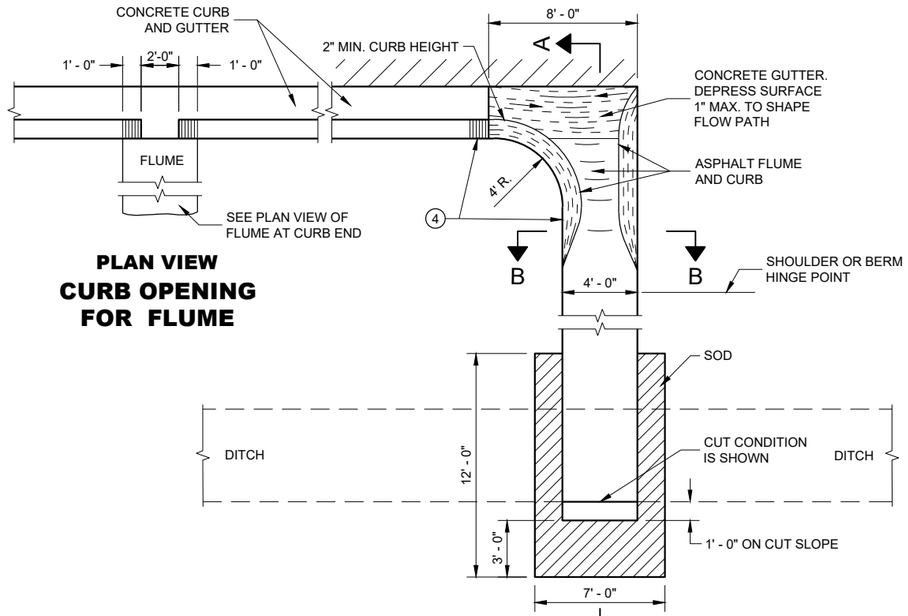
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
SDD08D01 - 22b

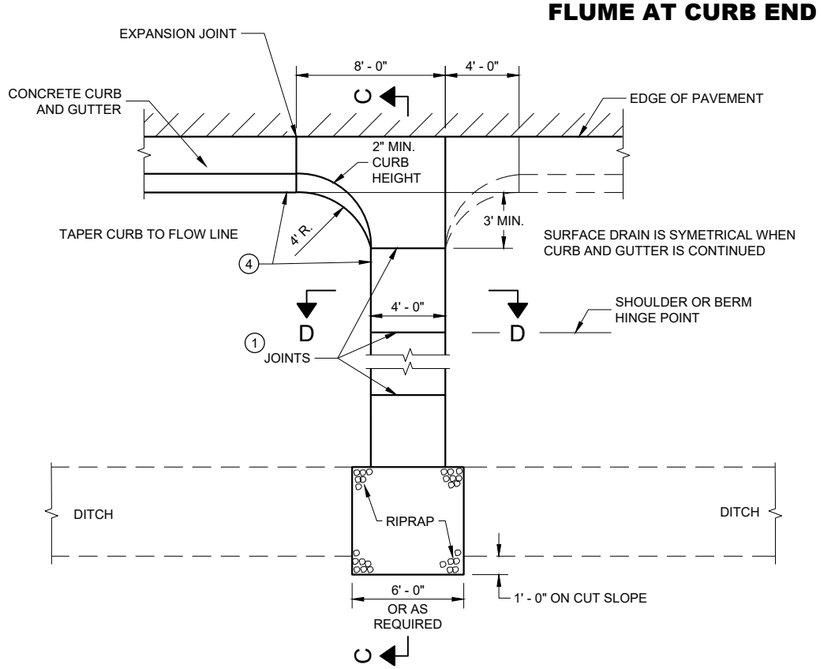
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



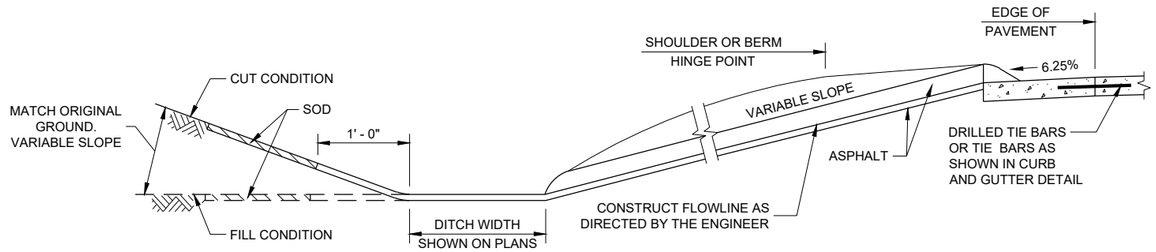
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

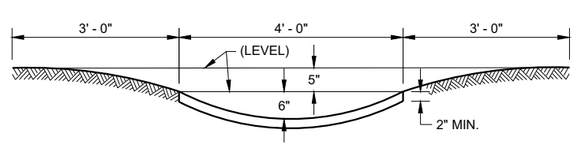
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

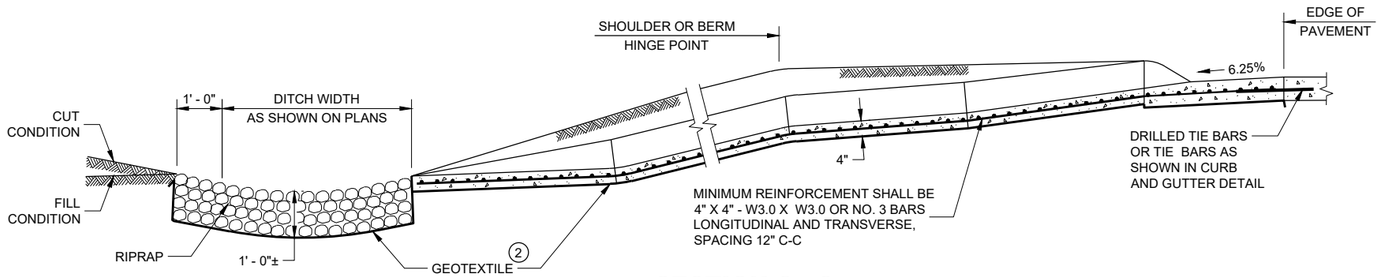
1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4.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



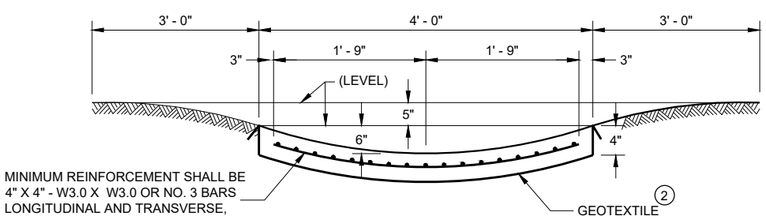
SECTION A - A



SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

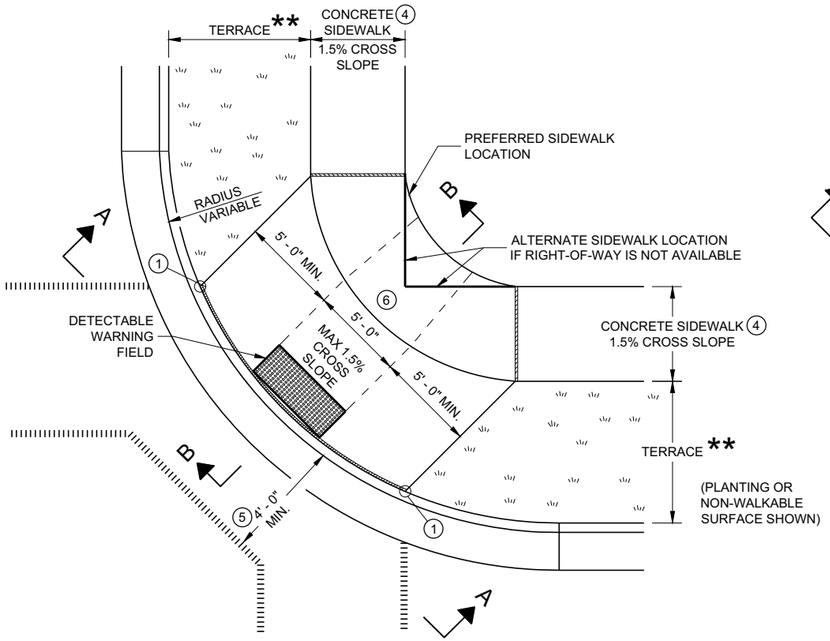
APPROVED
November 2021
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

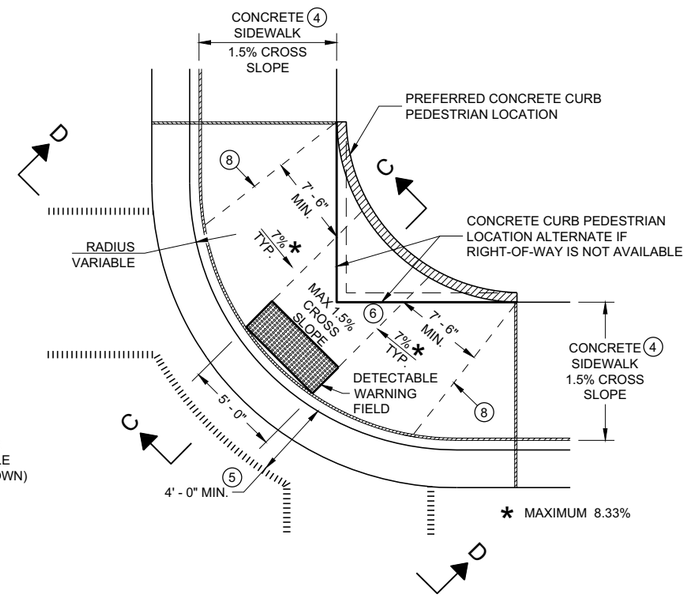
SDD 08D04 - 06



PLAN VIEW

CURB RAMP TYPE 1

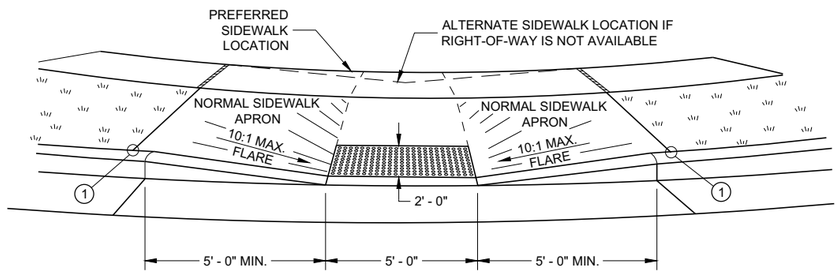
(CENTER OF CORNER RADIUS)



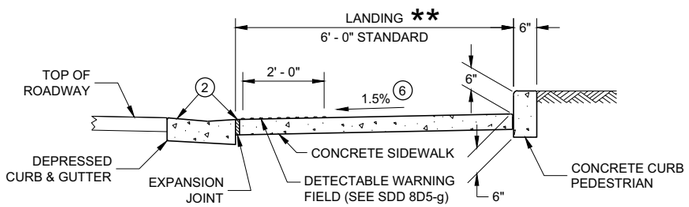
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

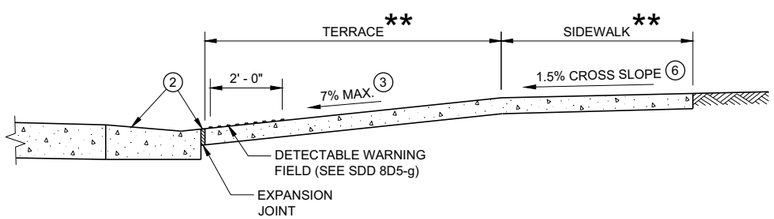


VIEW A - A FOR TYPE 1

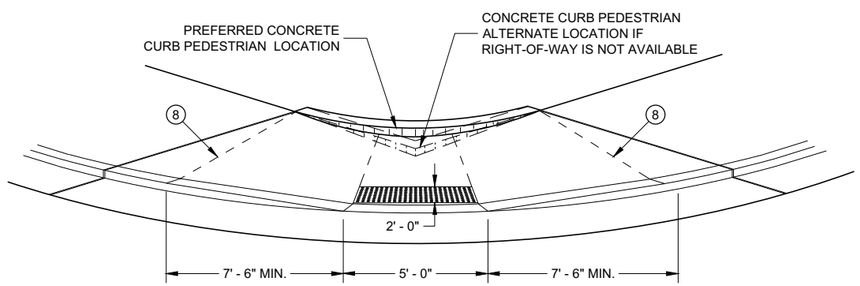


SECTION C - C FOR TYPE 1 - A

** 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

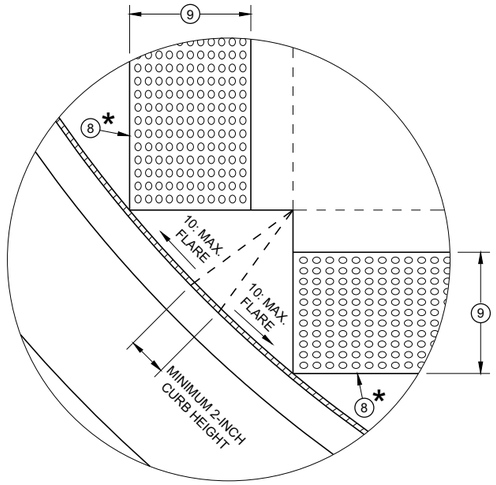
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

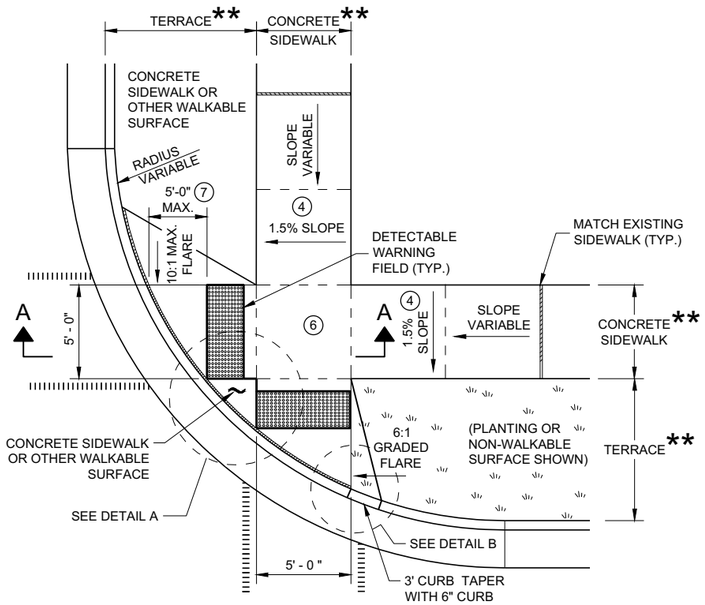
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

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

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

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

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

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

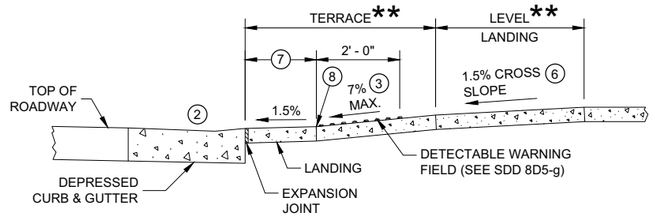
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

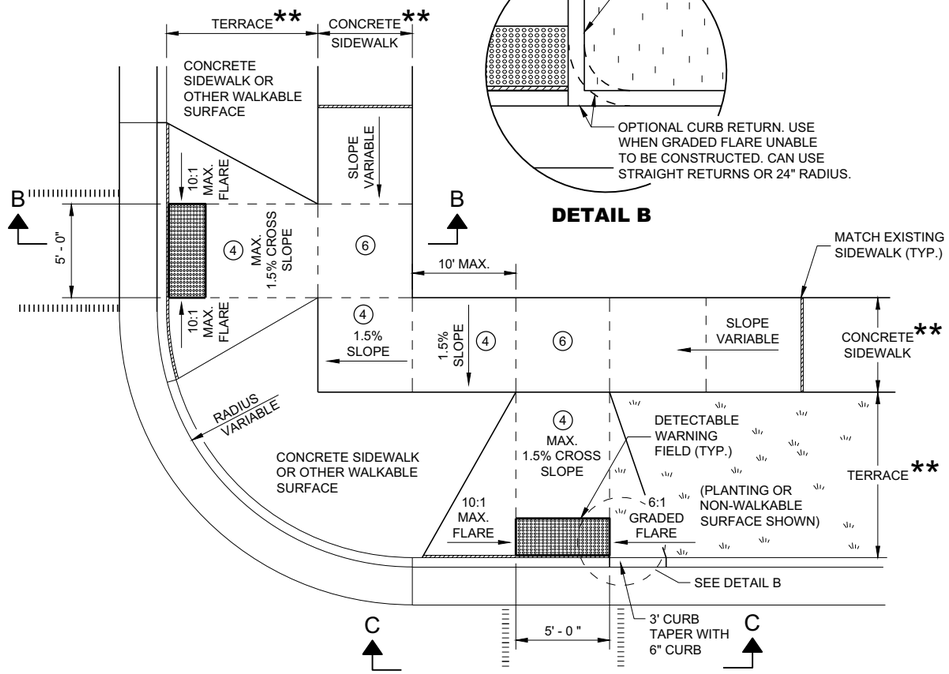
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



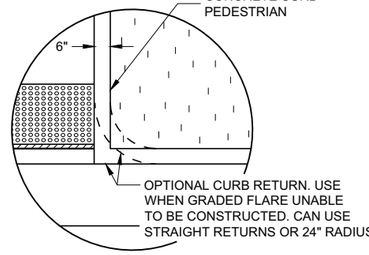
SECTION A - A FOR TYPE 2

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

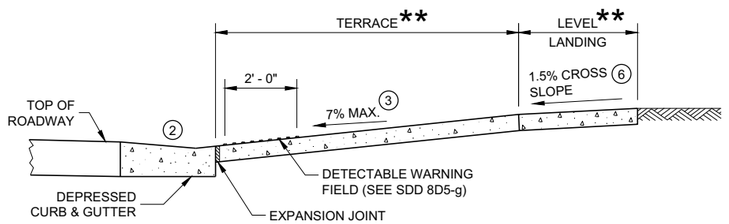
** WIDTH SHOWN ELSEWHERE IN THE PLANS



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



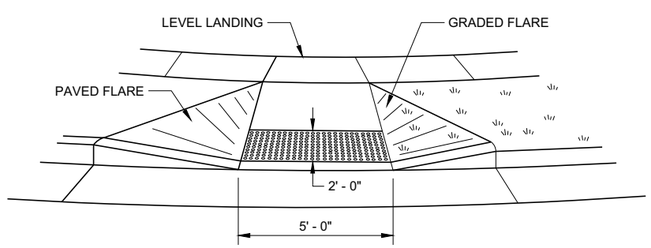
DETAIL B



SECTION B - B FOR TYPE 3

LEGEND

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



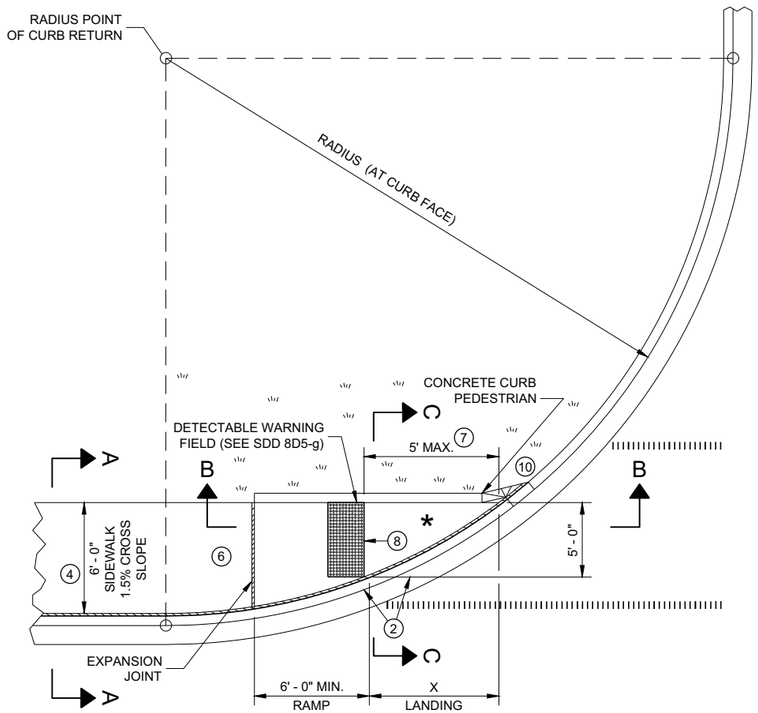
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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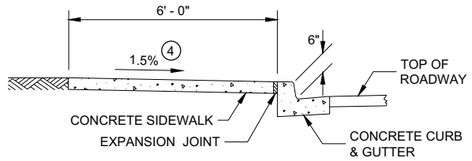


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

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

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

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

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

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

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

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

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

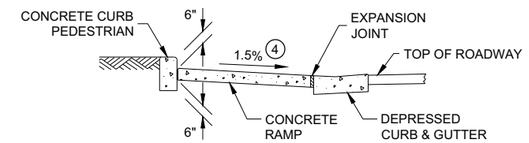
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

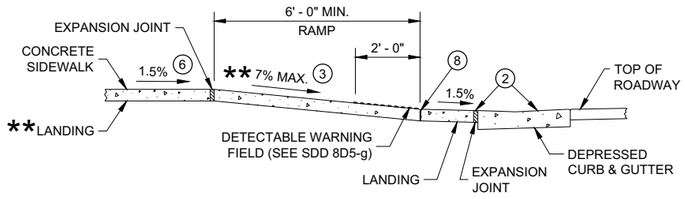
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



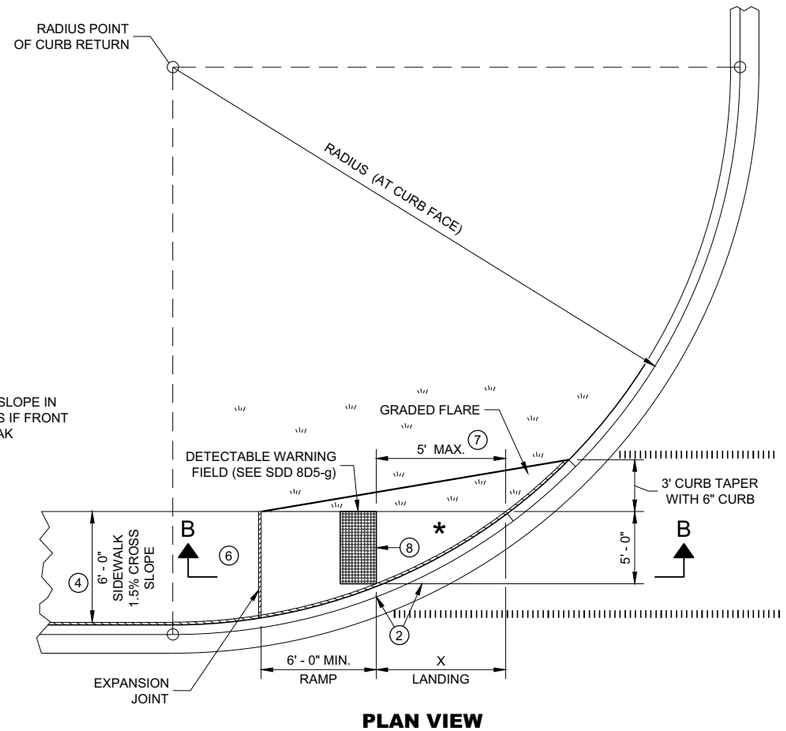
SECTION C - C FOR TYPE 4A



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

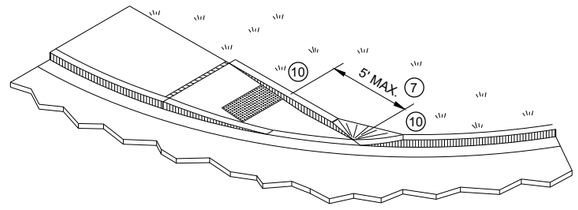
SECTION B - B FOR TYPE 4A AND TYPE 4A1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

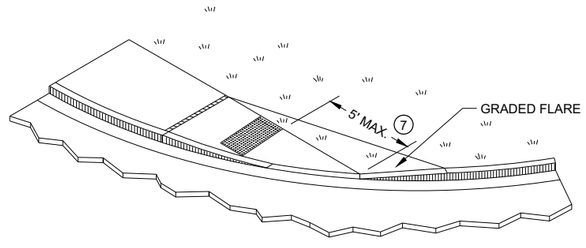


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



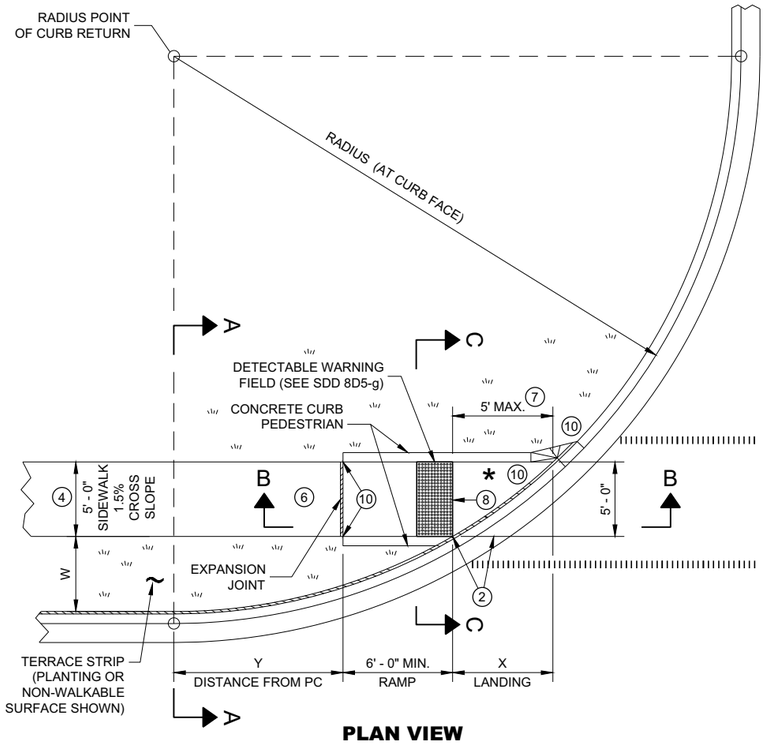
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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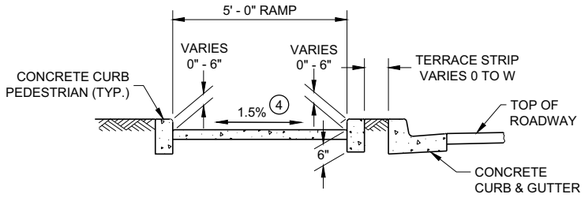


PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

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

GENERAL NOTES

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

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

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

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

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

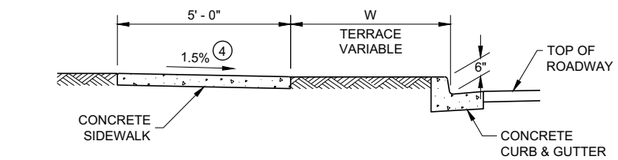
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

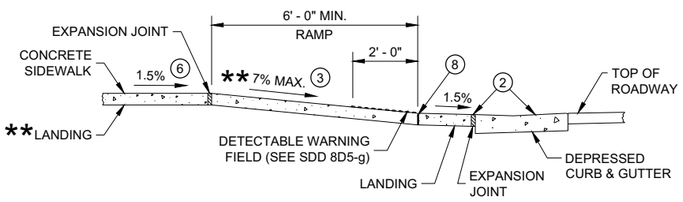
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



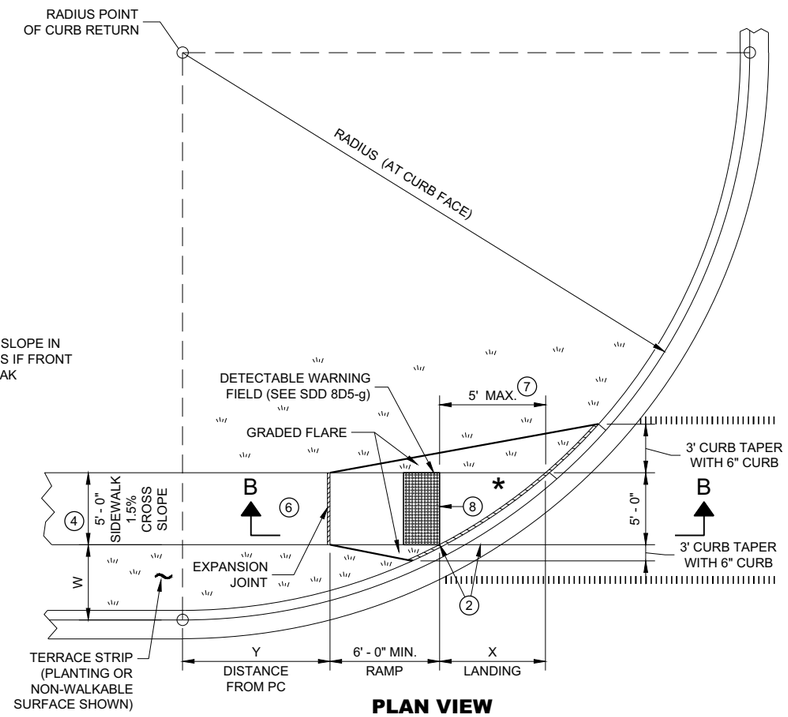
SECTION A - A FOR TYPE 4B



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

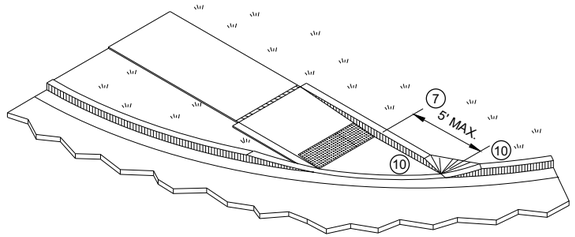
SECTION B - B FOR TYPE 4B AND TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

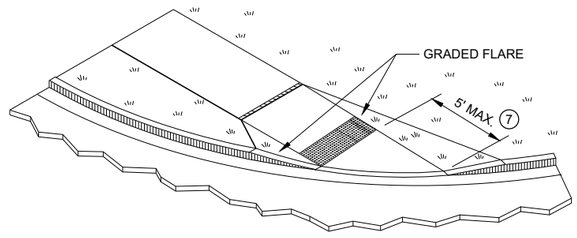


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



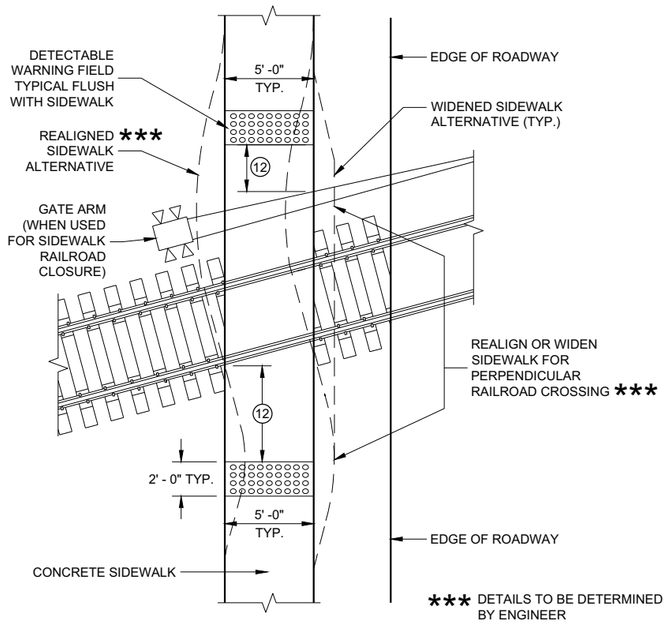
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

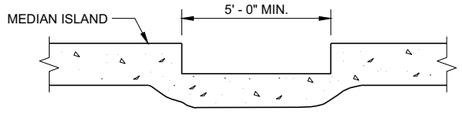
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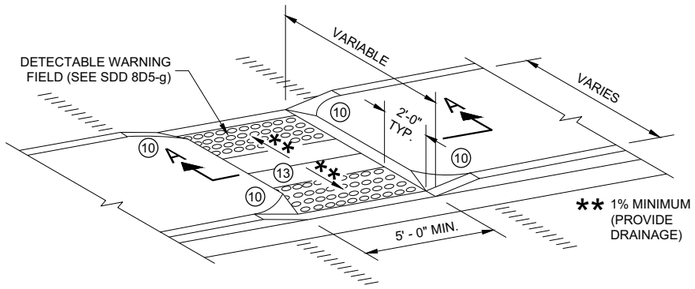


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

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

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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

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

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

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

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

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

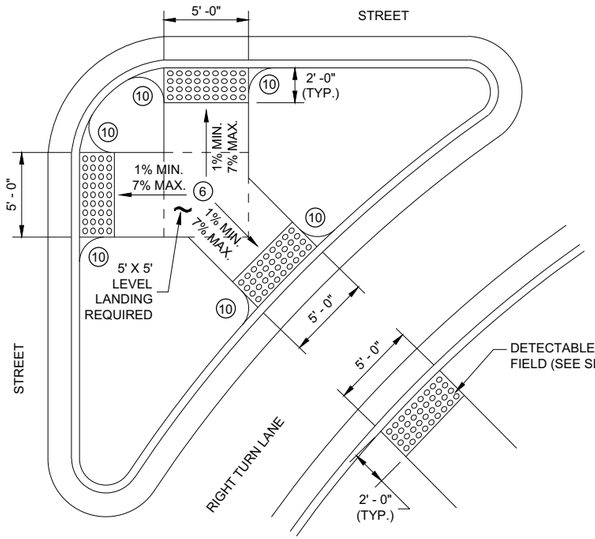
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

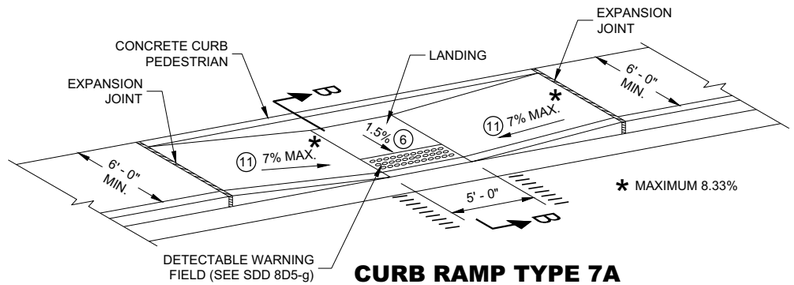
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

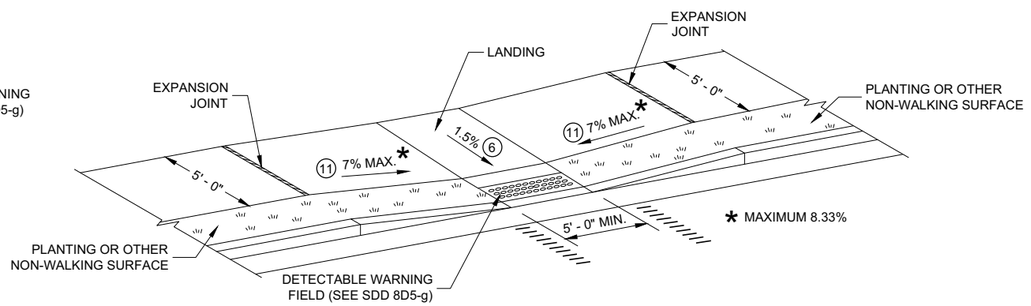
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

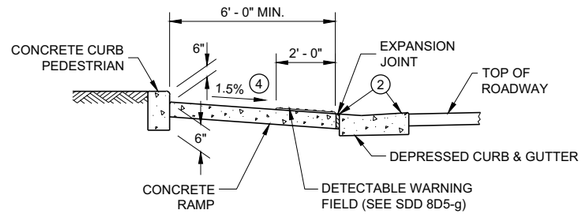
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

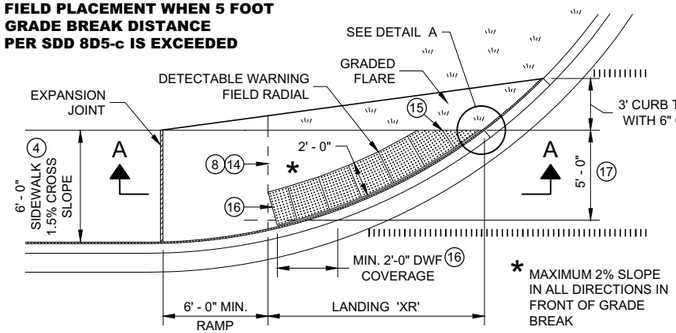
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

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SDD 08D05 - 20e

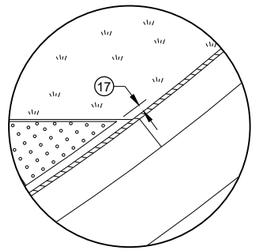
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



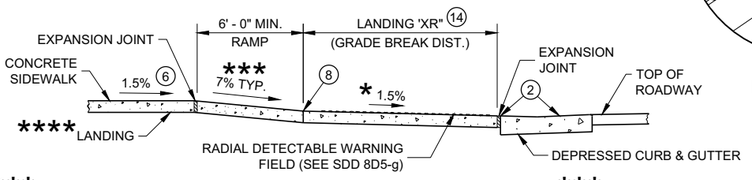
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

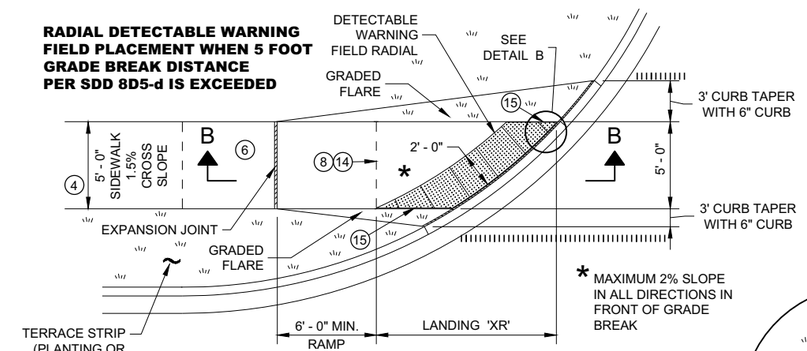


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

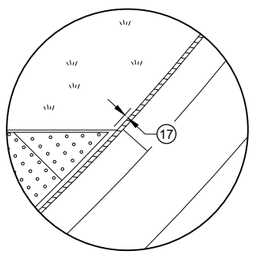
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



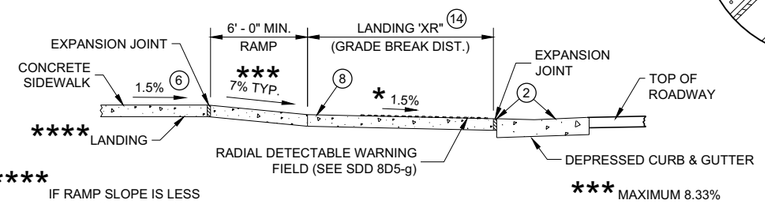
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

LEGEND

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

GENERAL NOTES

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

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

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

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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

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

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

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

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

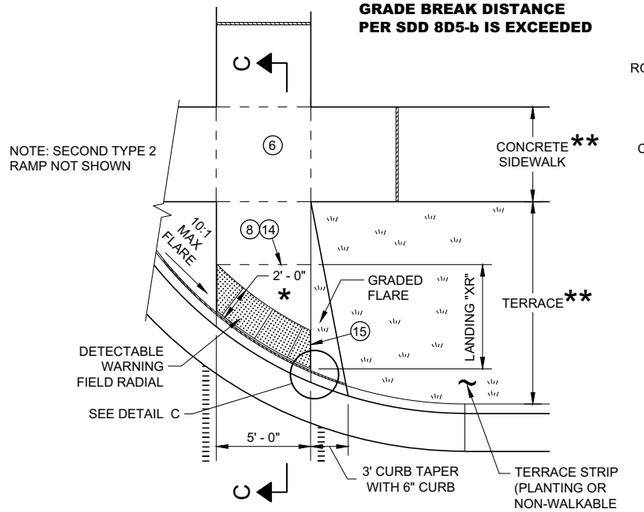
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

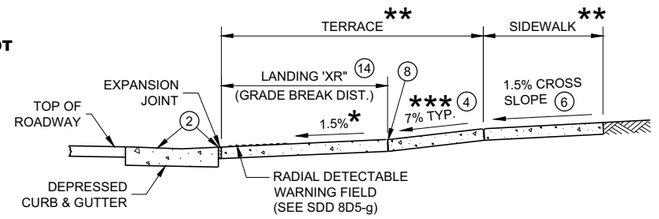


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

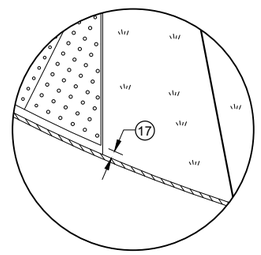


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

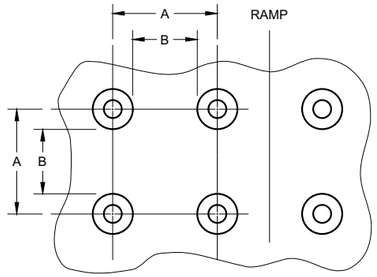
CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

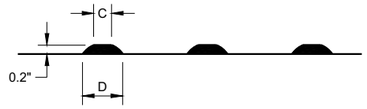
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

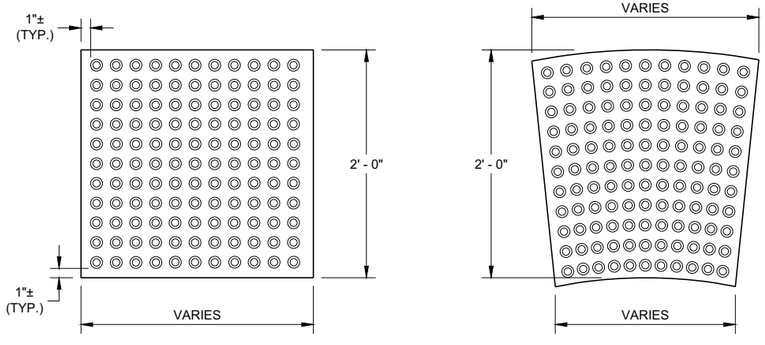


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

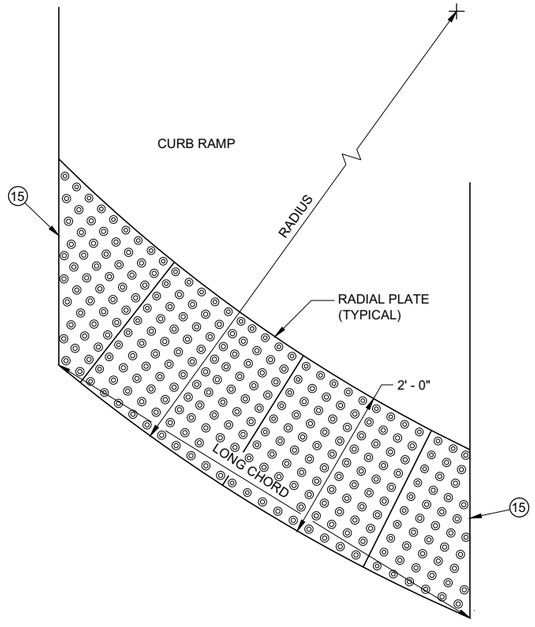
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

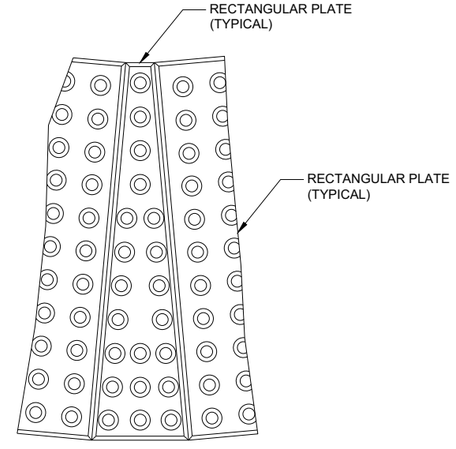
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

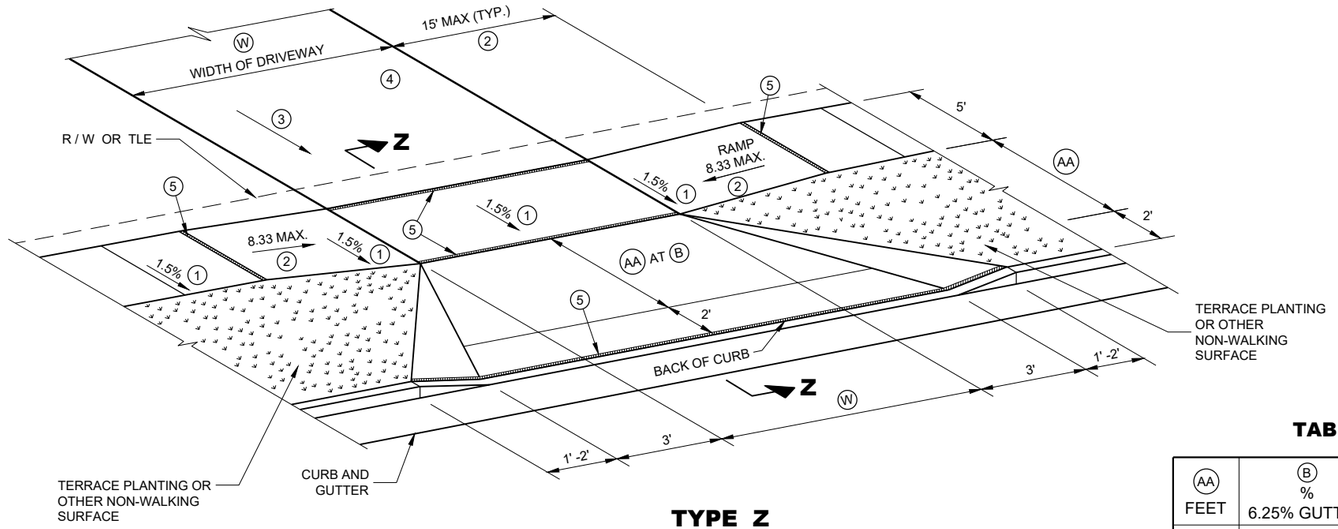
FHWA

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SDD 08D05 - 20g

6

SDD 08D05 - 20g



TYPE Z
SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

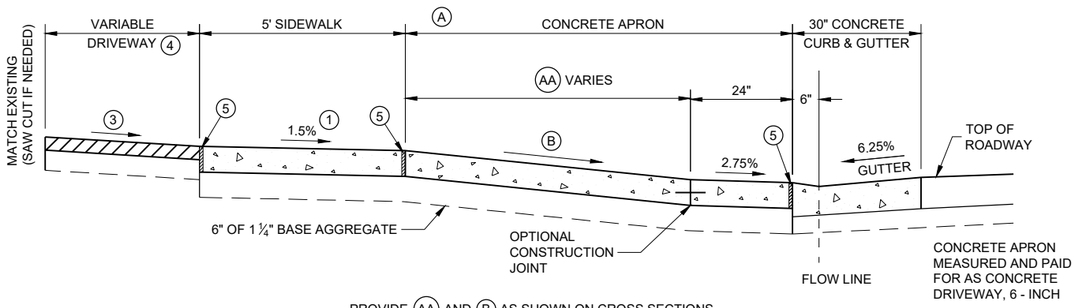
(5) ½" EXPANSION JOINT FILLER.

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

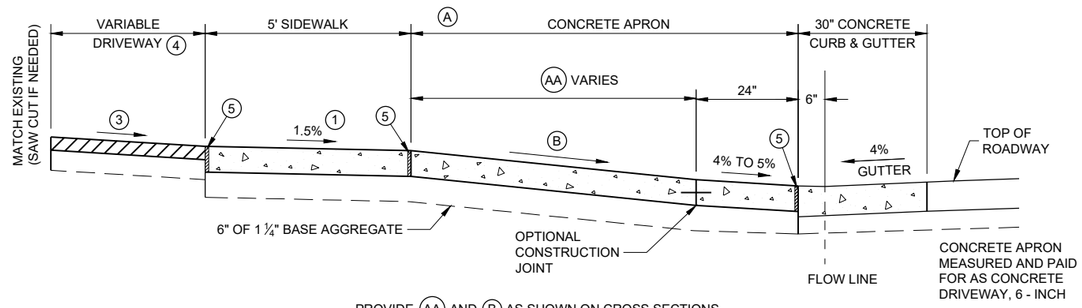
(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

6.25% GUTTER SLOPE



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

4% GUTTER SLOPE

NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS FOR (B) VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

SECTION Z - Z

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

(URBAN AND SUBURBAN)

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

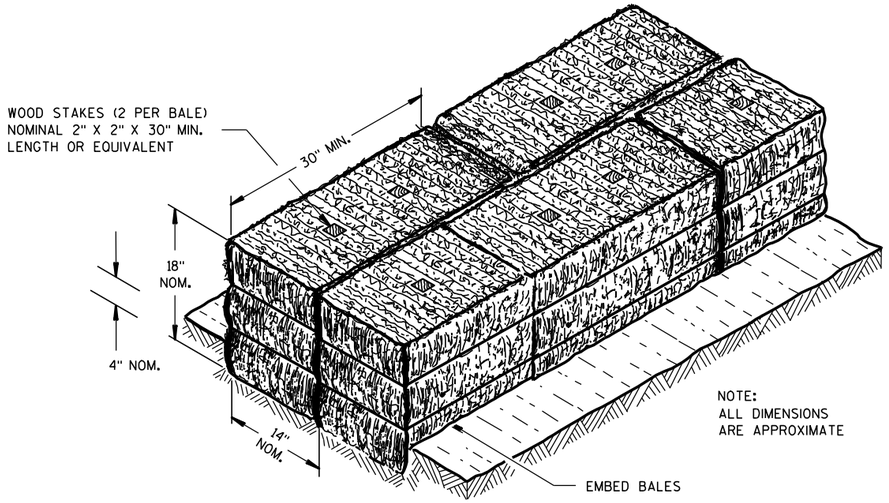
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

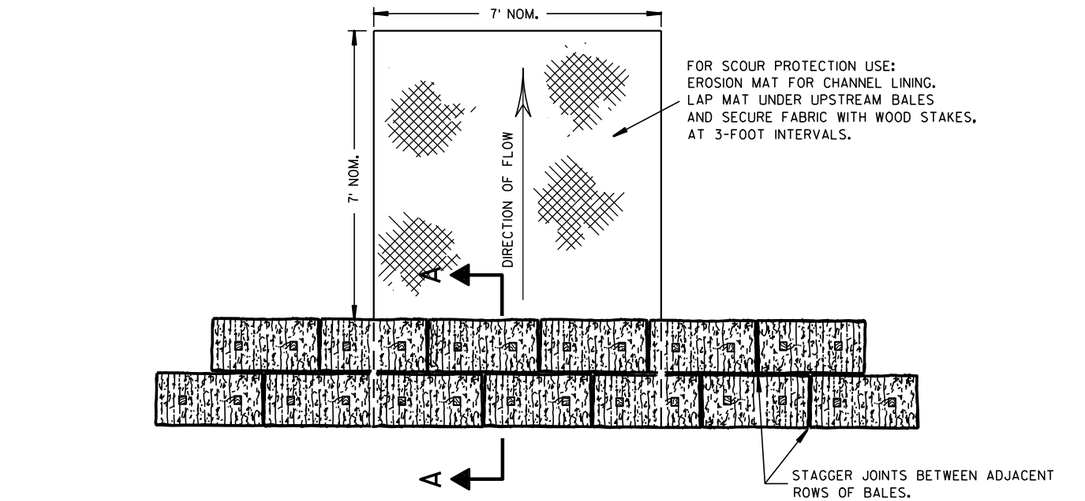
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

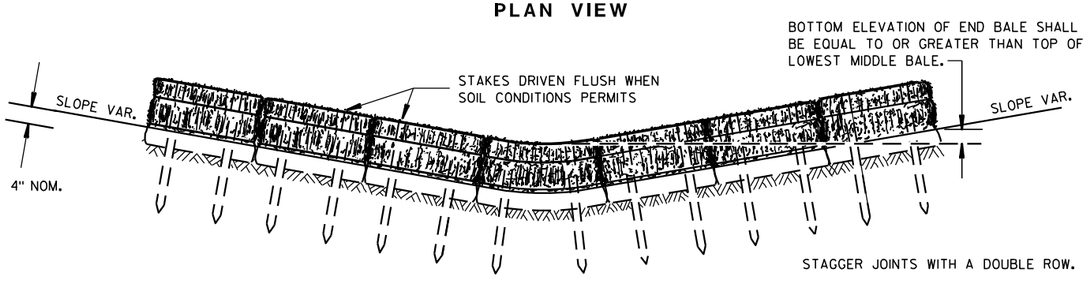
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SDD 08D19 - 03



SECTION A-A



PLAN VIEW



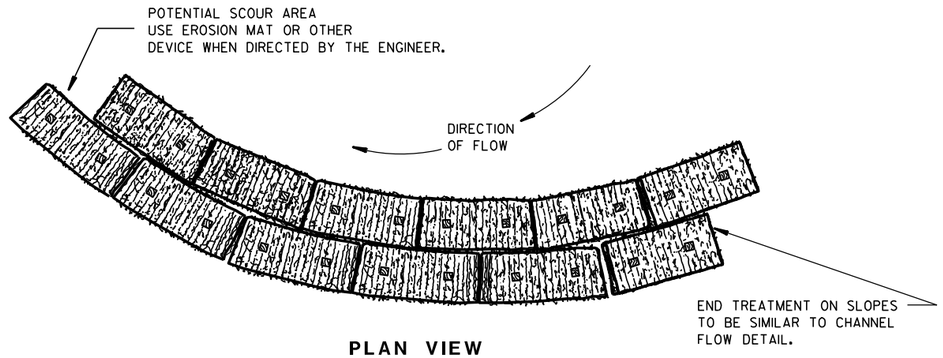
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

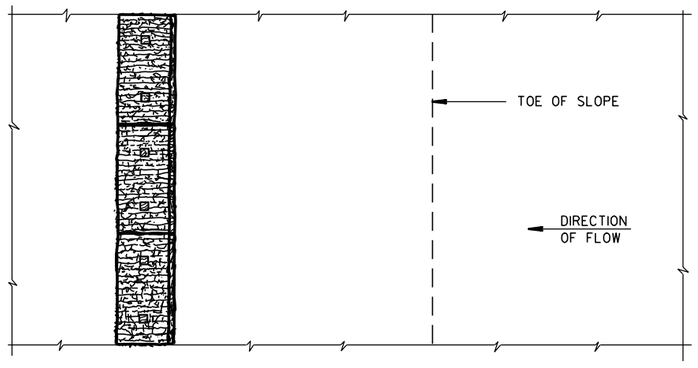
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

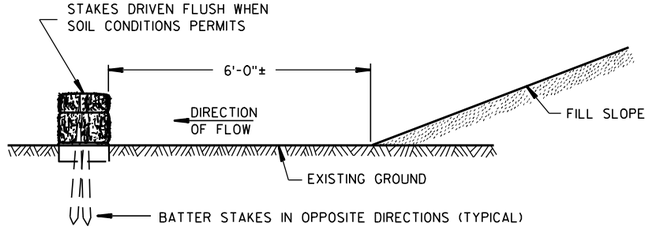


PLAN VIEW

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

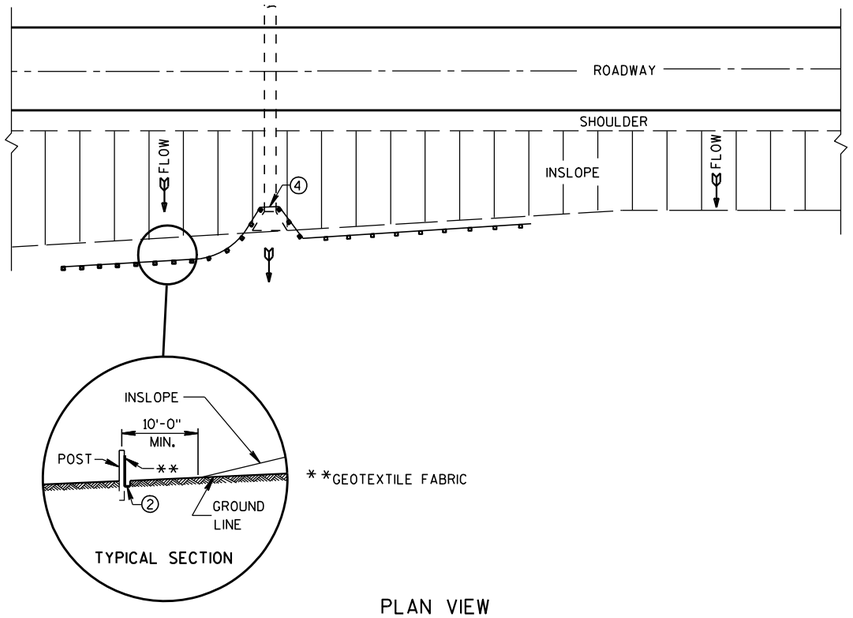
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

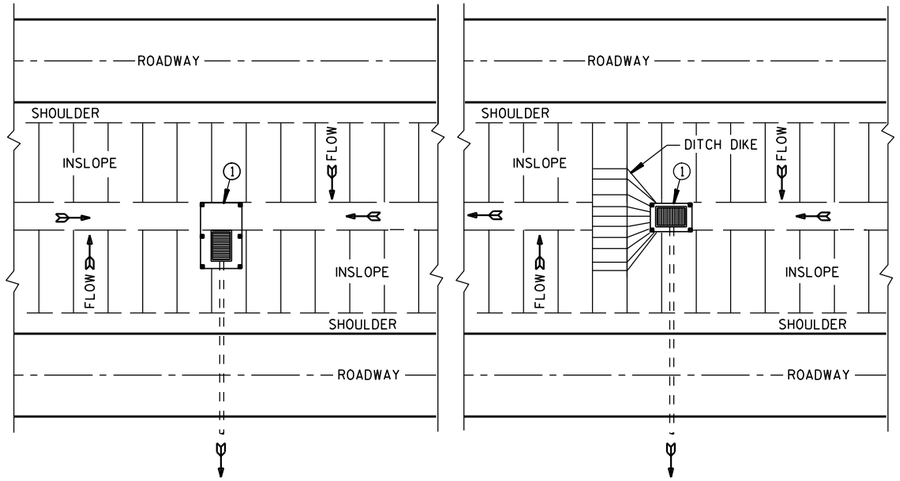
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



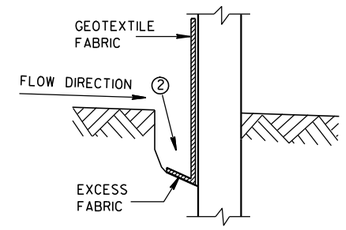
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

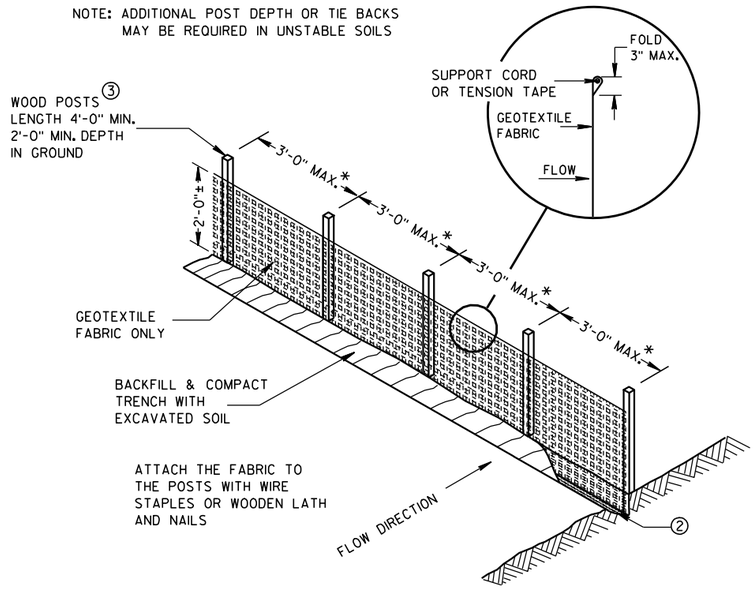
GENERAL NOTES

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

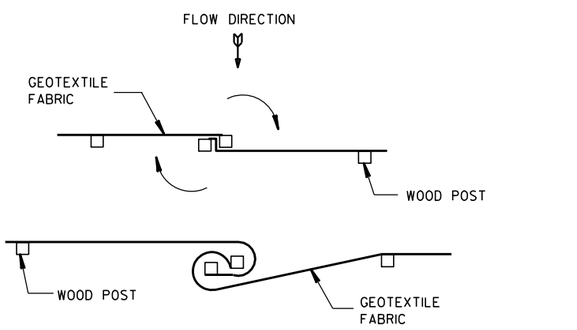
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



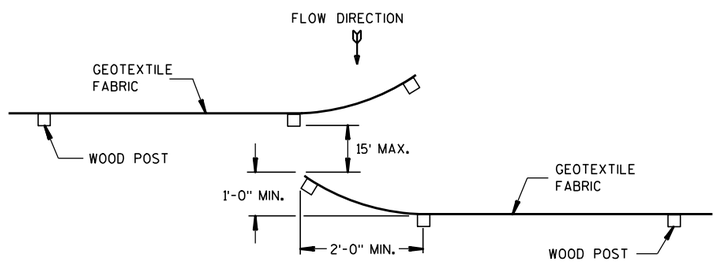
TRENCH DETAIL



SILT FENCE

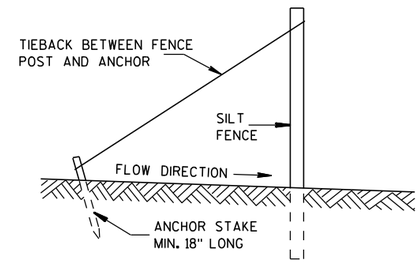


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

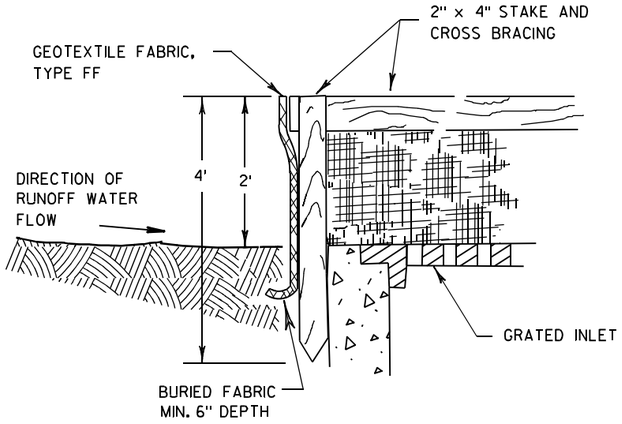
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

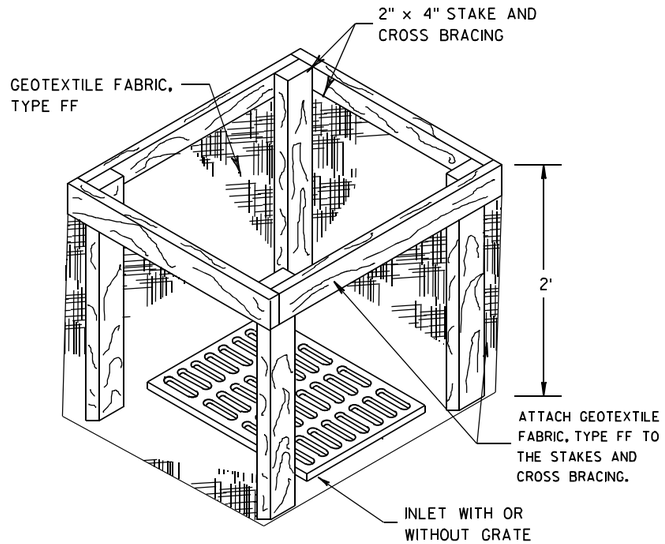
6

S.D.D. 8 E 9-6

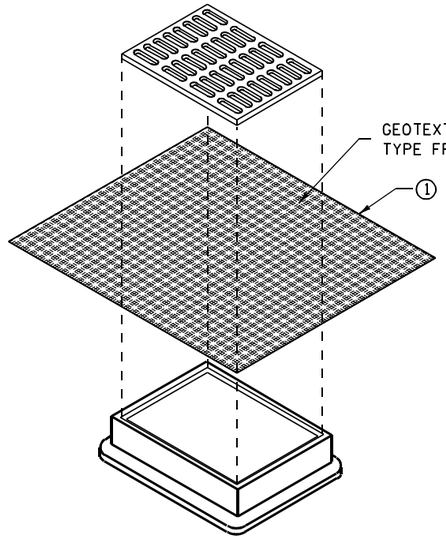
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S.D.D. 8 E 9-6



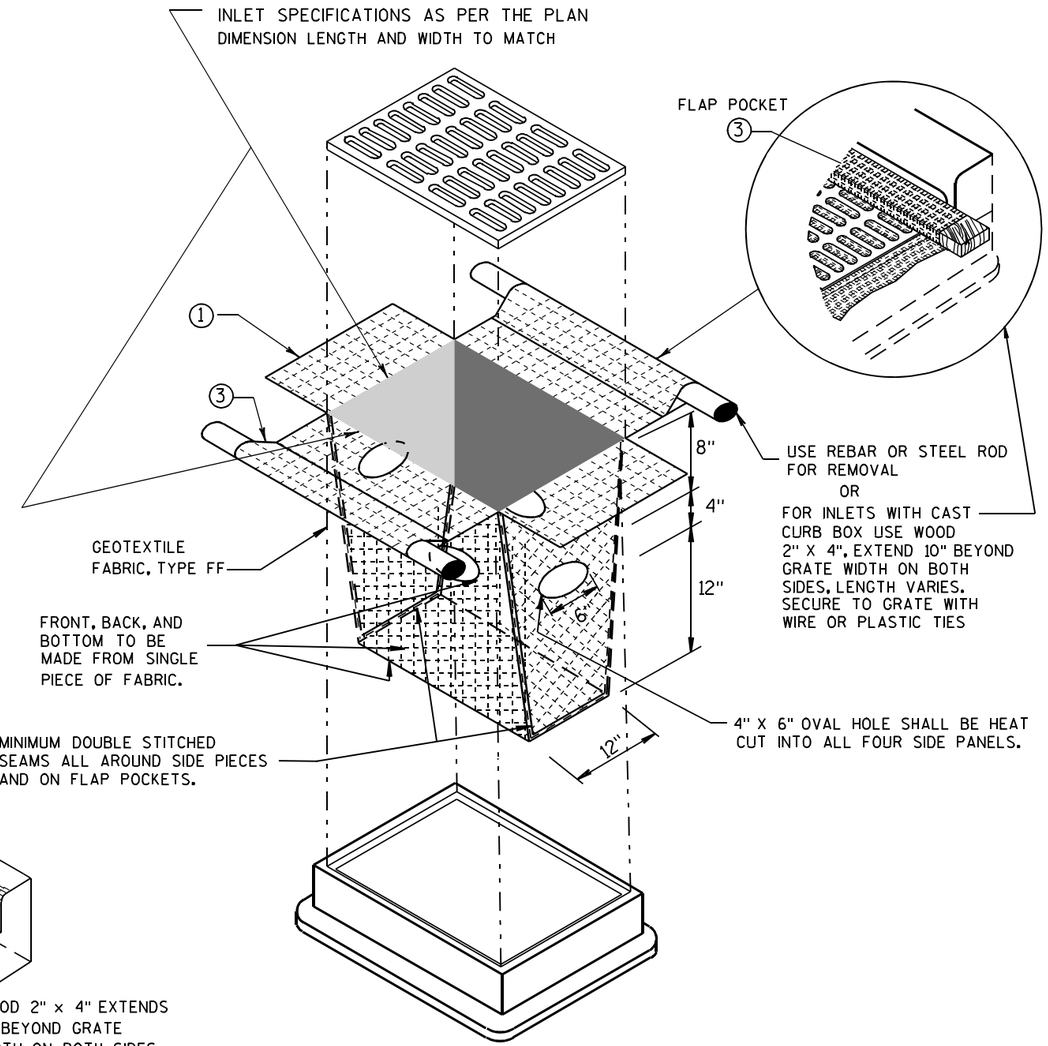


INLET PROTECTION, TYPE A



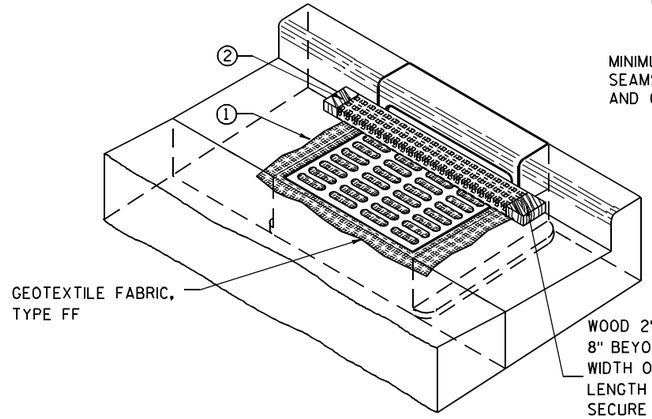
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

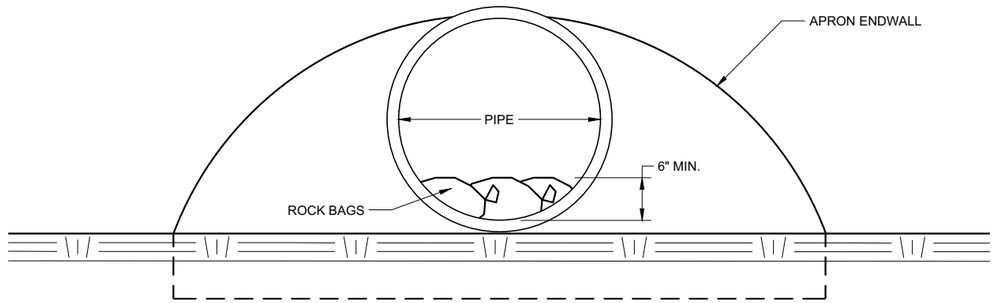
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

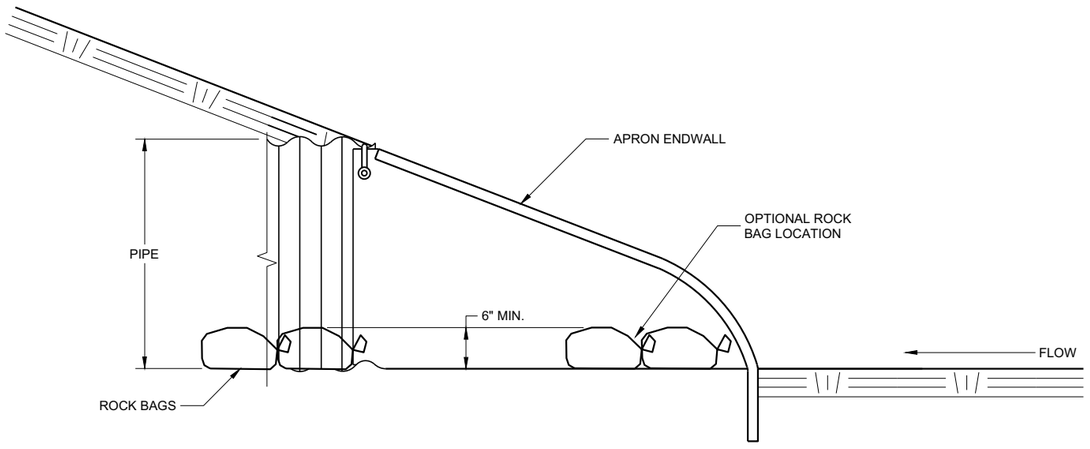
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 8 E 10-2



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

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

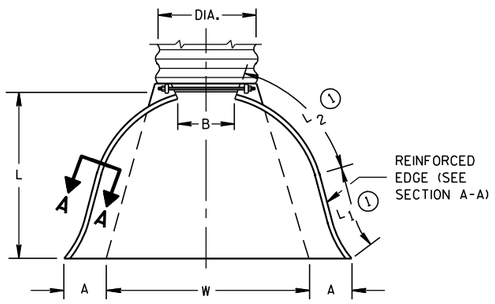
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

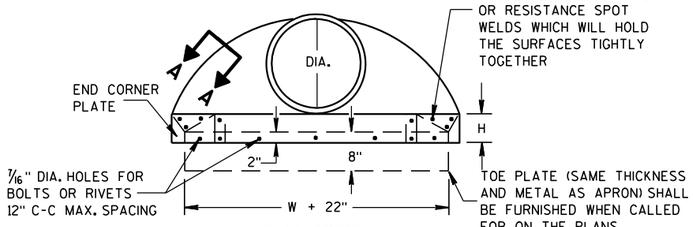
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

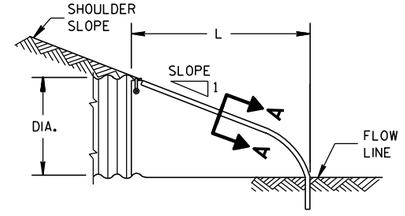
*MINIMUM
**MAXIMUM



PLAN VIEW

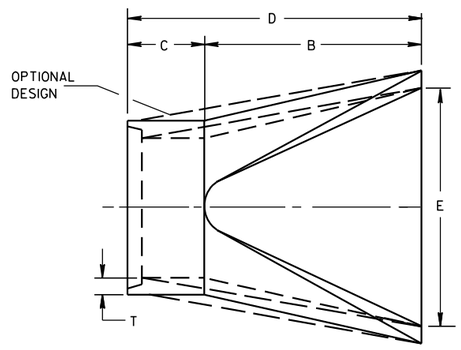


END VIEW

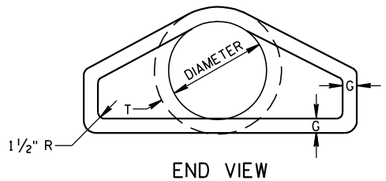


SIDE ELEVATION

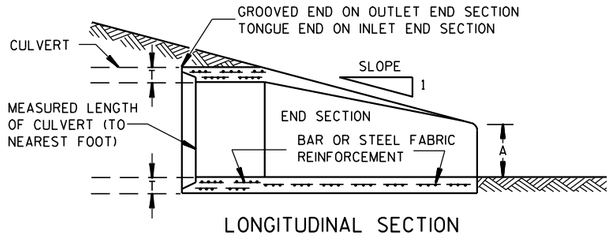
METAL ENDWALLS



PLAN

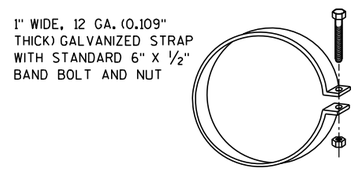


END VIEW



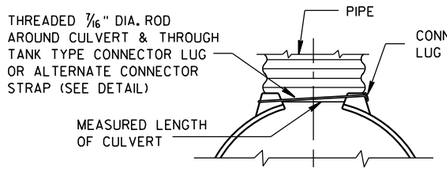
LONGITUDINAL SECTION

CONCRETE ENDWALLS

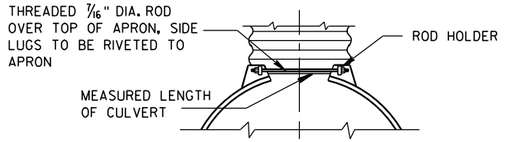


ALTERNATE FOR TYPE 1 CONNECTION

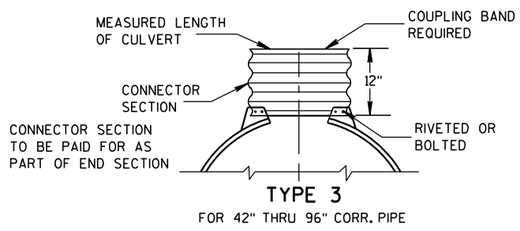
END SECTION CONNECTOR STRAP



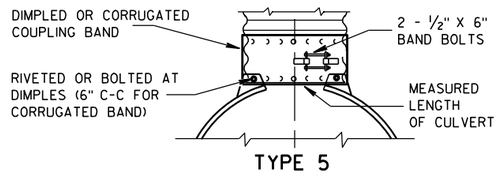
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

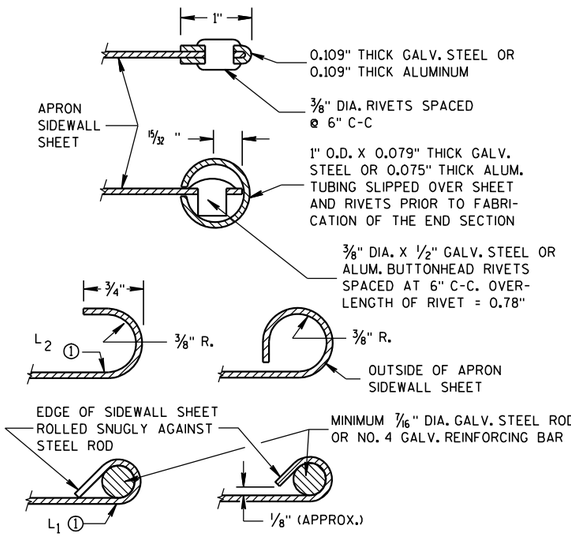
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

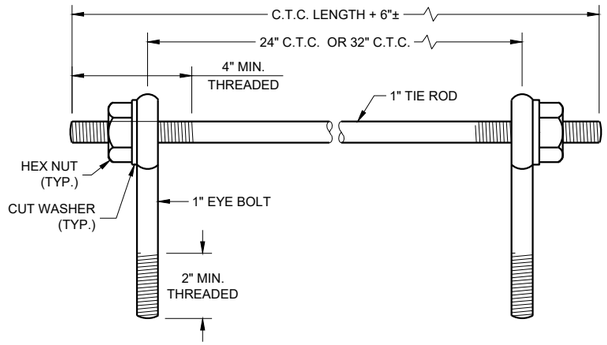
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

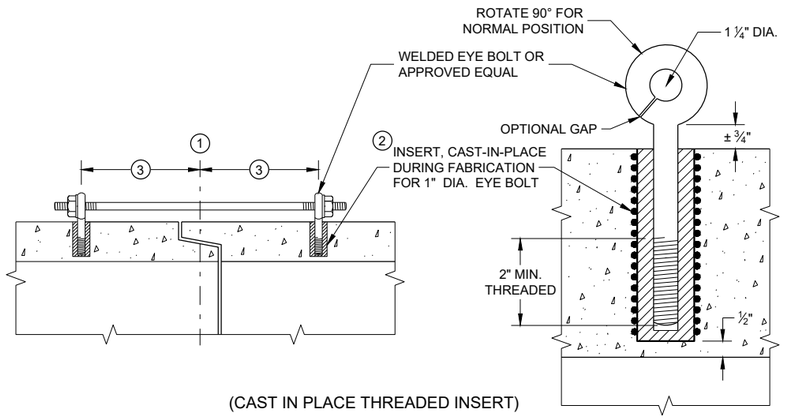
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

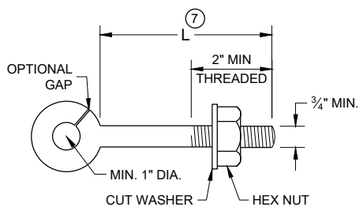
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

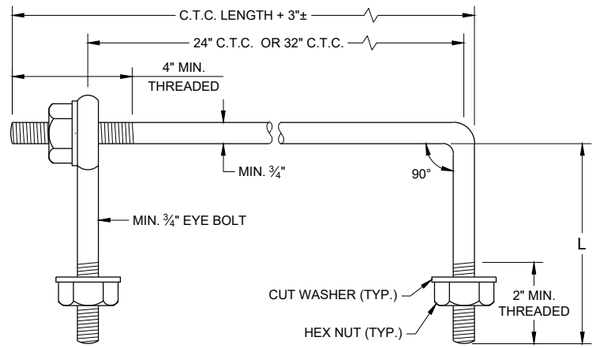
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

1. CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
2. THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
3. HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
4. BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
5. OPENING TO BE ROD DIAMETER PLUS 1 INCH.
6. LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.
7. EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

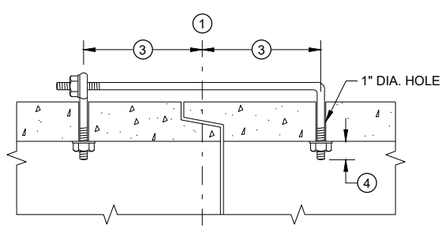


EYE BOLT (7)

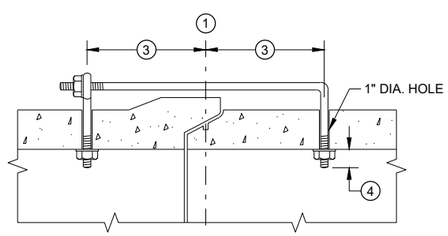
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

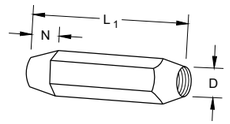
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

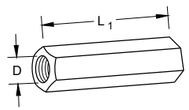
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



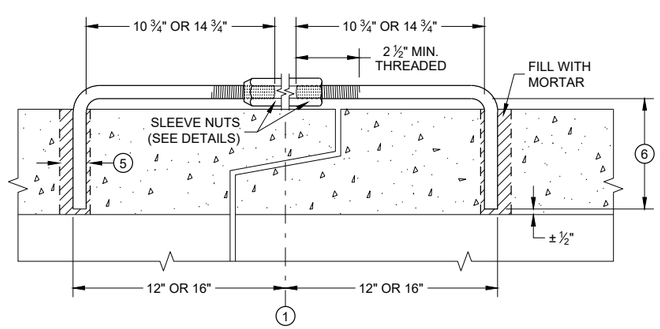
TAPERED



PLAIN

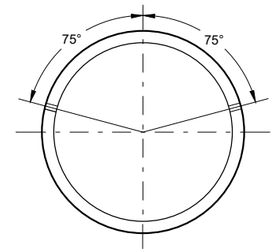
RIGHT AND LEFT THREADS

SLEEVE NUTS



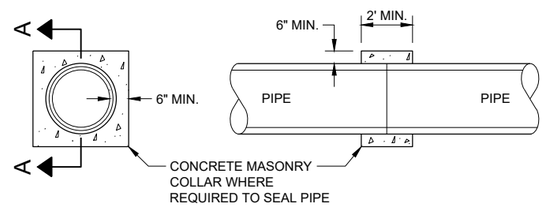
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

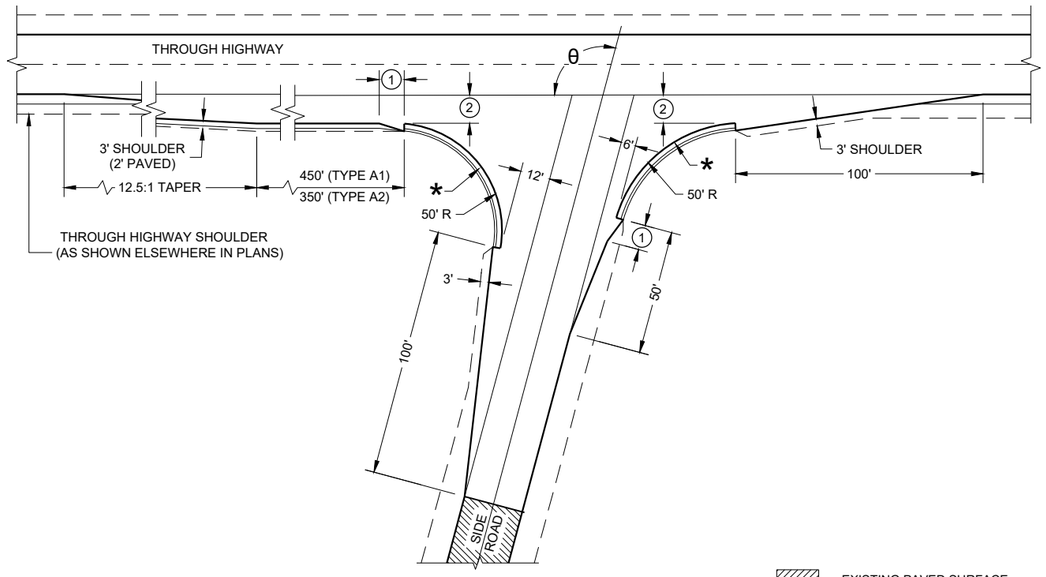
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

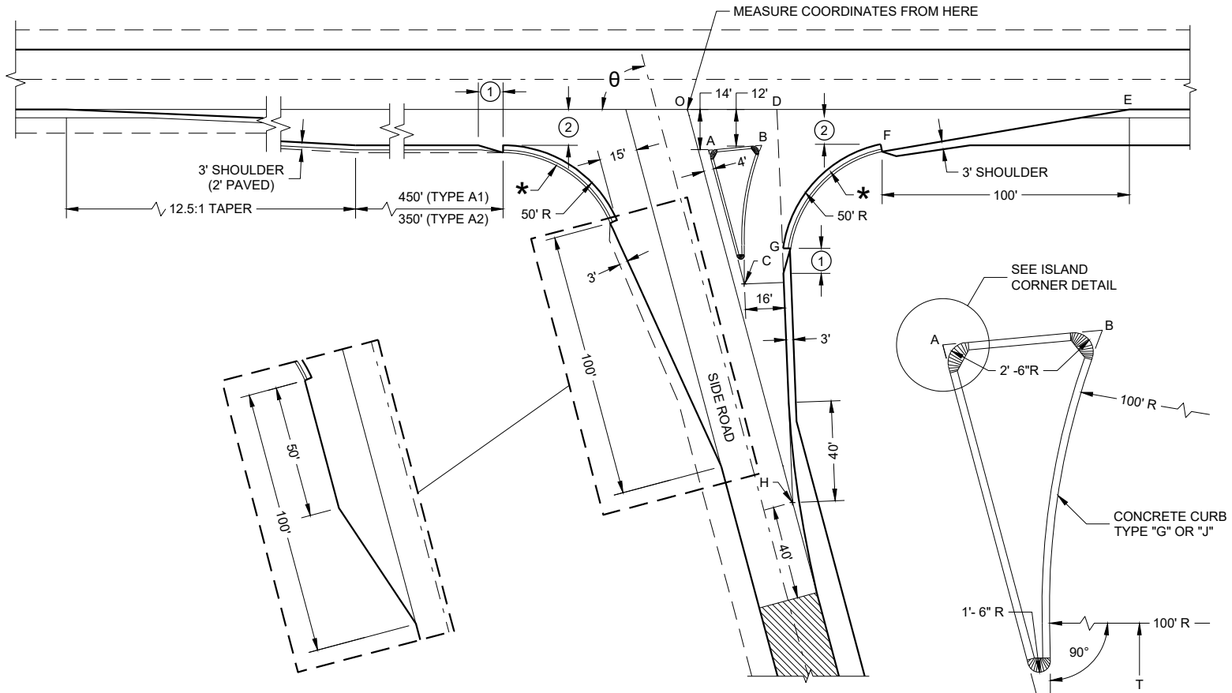
FHWA

SDD 08F04 - 08

SDD 08F04 - 08

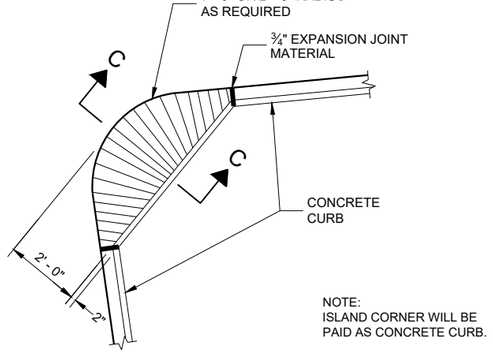


θ = MORE THAN 80°



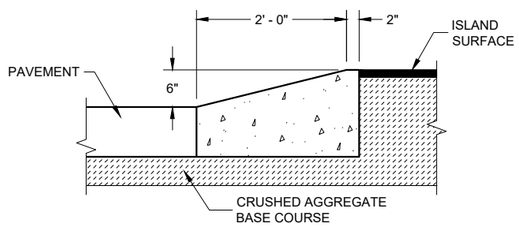
SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS

θ = ACUTE ANGLES 80° OR LESS



PLAN VIEW

NOTE:
ISLAND CORNER WILL BE
PAID AS CONCRETE CURB.



SECTION C - C

ISLAND CORNER DETAIL

(TO BE CONSTUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES

(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT 'O') X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

TYPE 'A1" AND "A2" SIDE ROAD INTERSECTION DETAILS

AT GRADE SIDE ROAD INTERSECTIONS
TYPES "A1" AND "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER

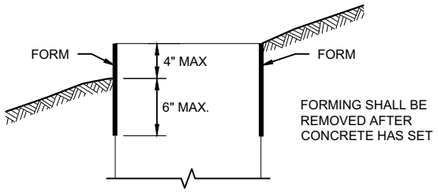
FHWA

SDD 09A01 - 14b

6

SDD 09A01 - 14b

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

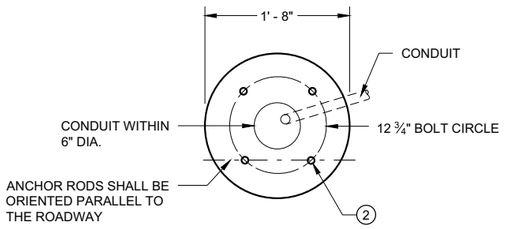
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

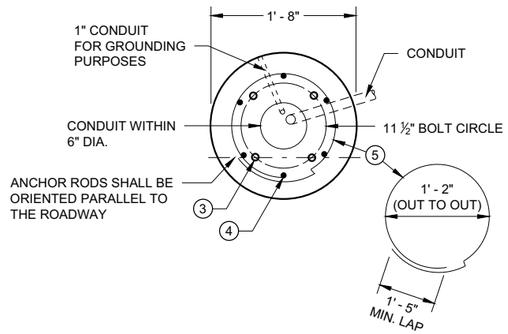
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

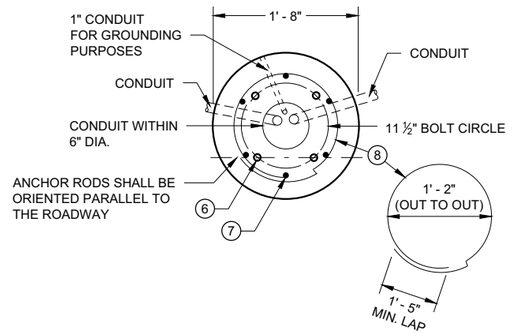
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

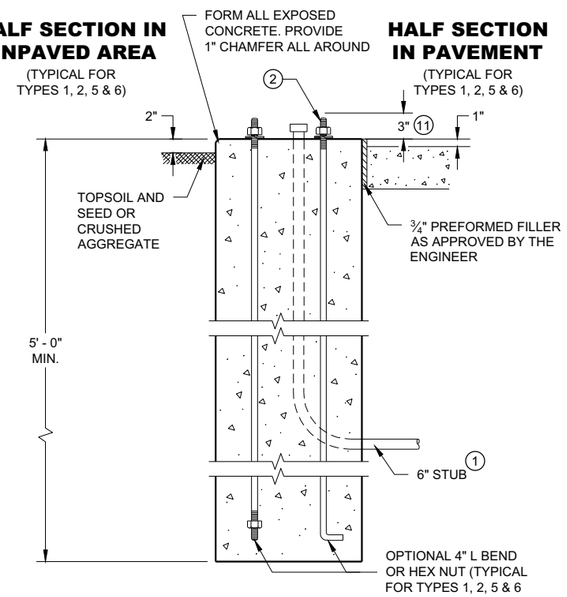
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

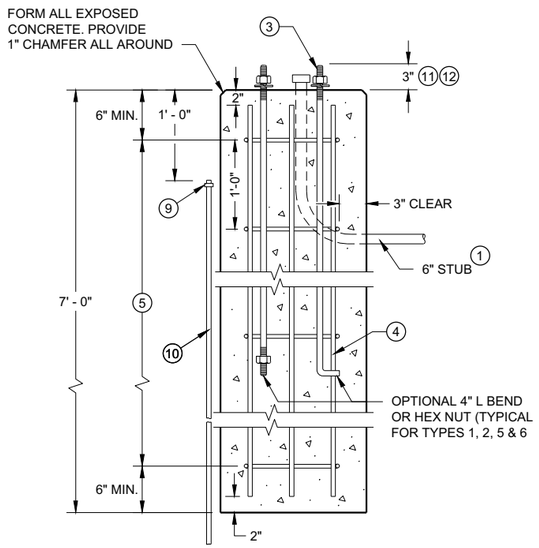
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

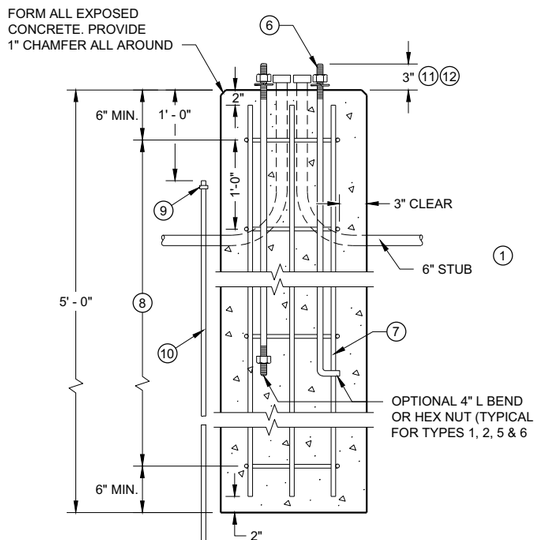
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

6
SDD 09C02 - 09

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

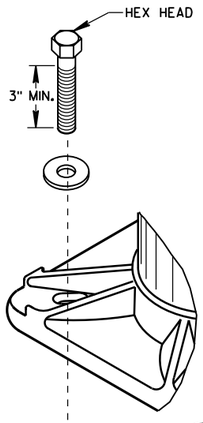
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

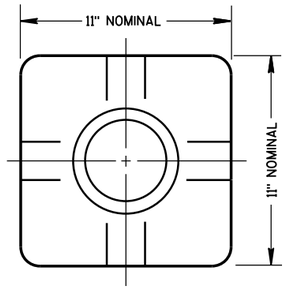
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

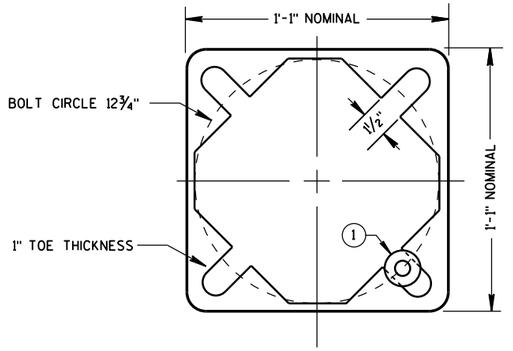
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

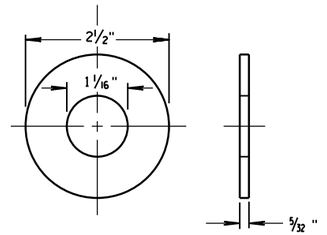




TOP VIEW
(PEDESTAL BASE)

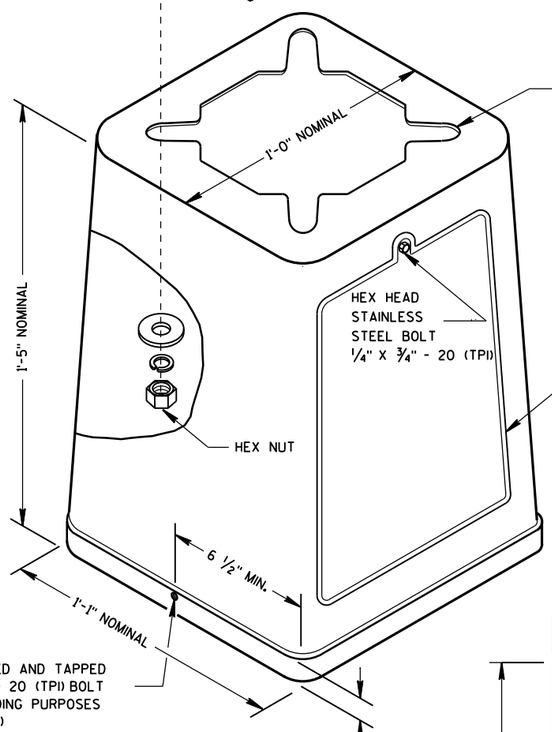


BOTTOM VIEW
(PEDESTAL BASE)

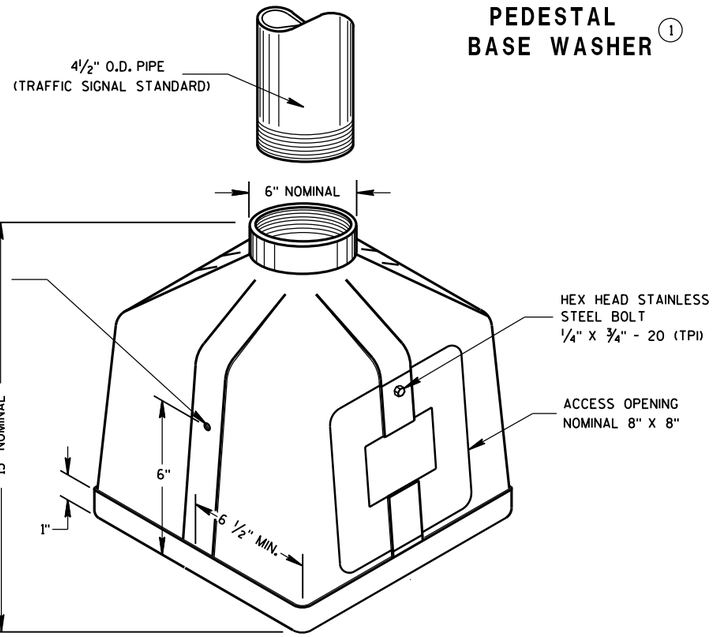


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

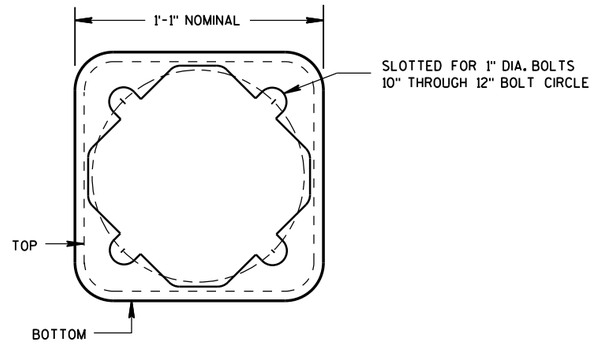


ISOMETRIC VIEW

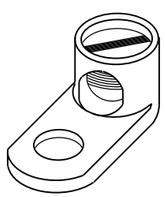


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

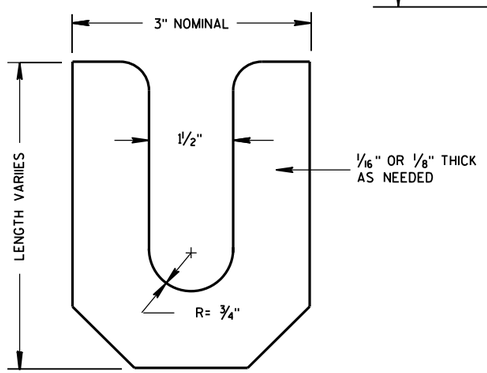


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

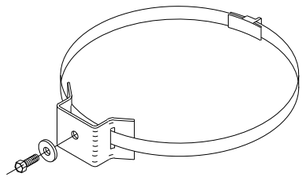
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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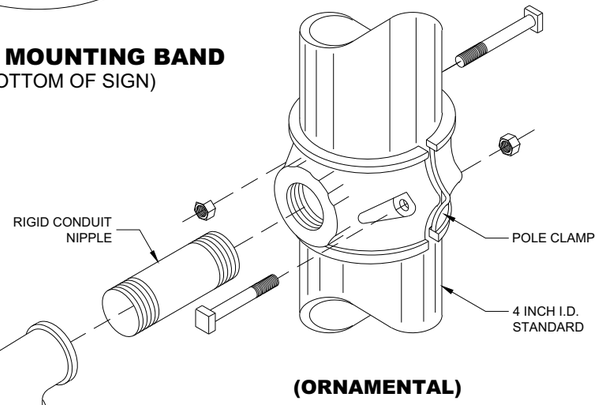
S.D.D. 9 C 3-4

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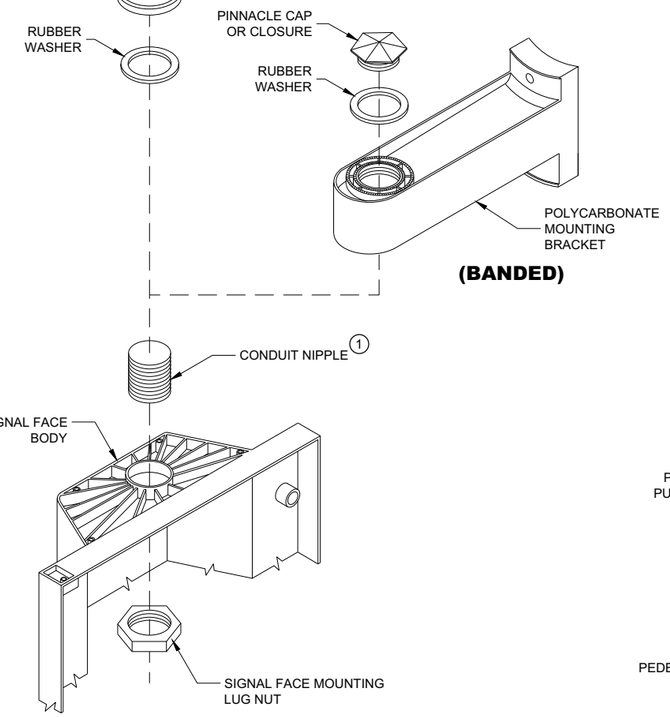
S.D.D. 9 C 3-4



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)

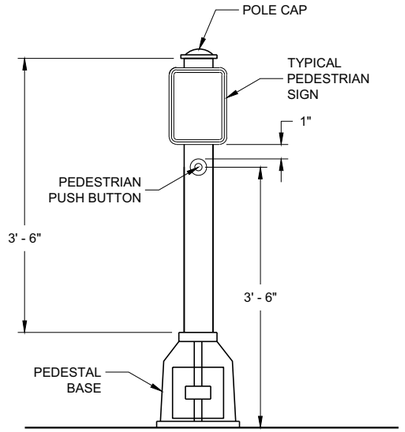


(ORNAMENTAL)



(BANDED)

SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

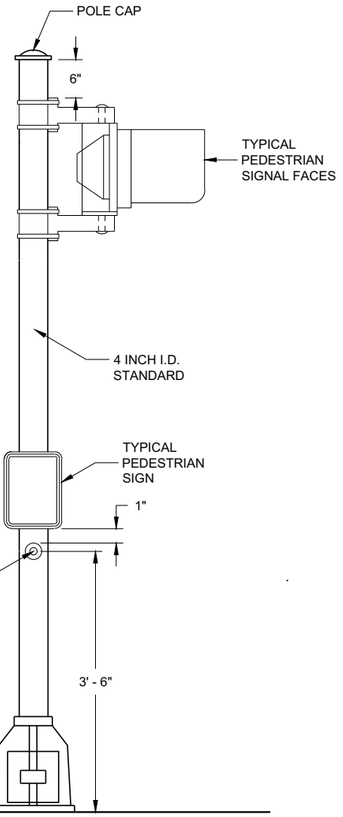
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

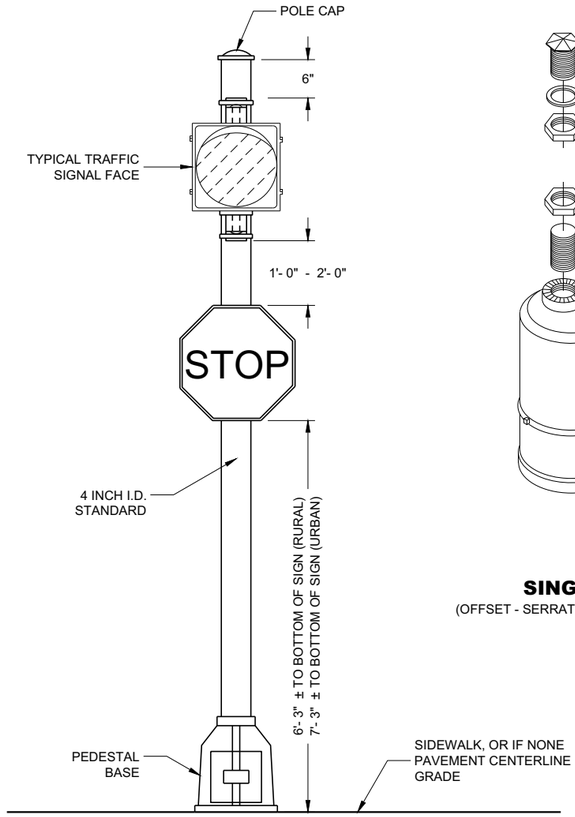
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

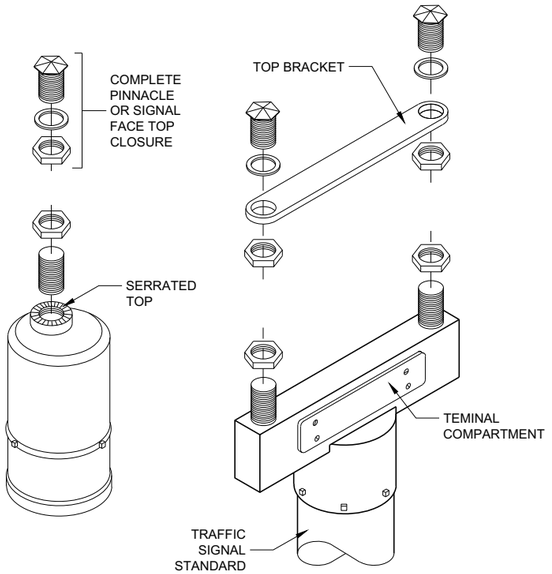
(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

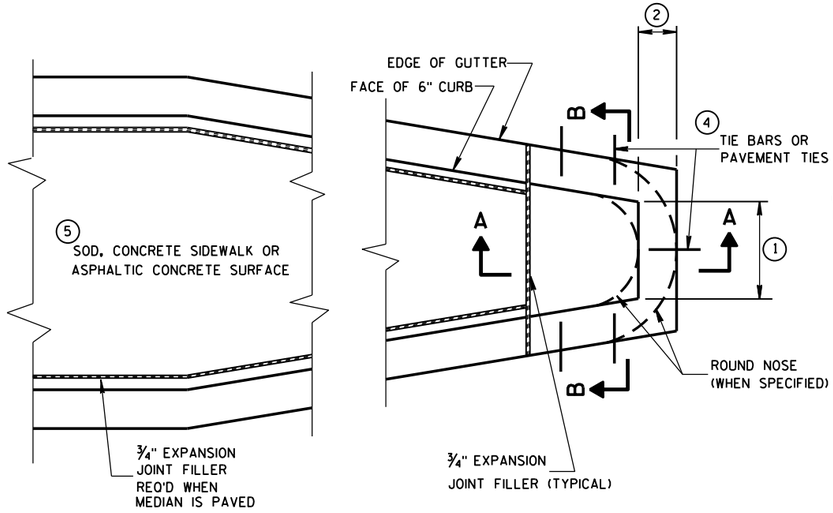
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

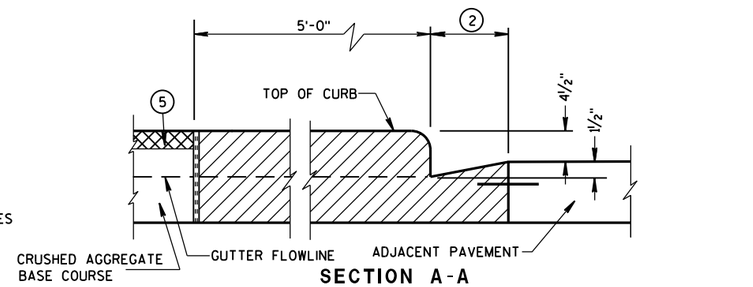
FHWA

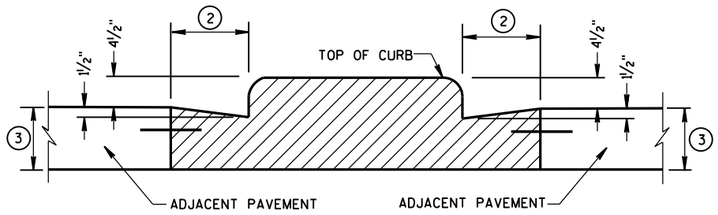
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SDD 09E07 - 06

SDD 09E07 - 06







CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

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

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

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

(1) NEW OR EXISTING CONCRETE PAVEMENT.

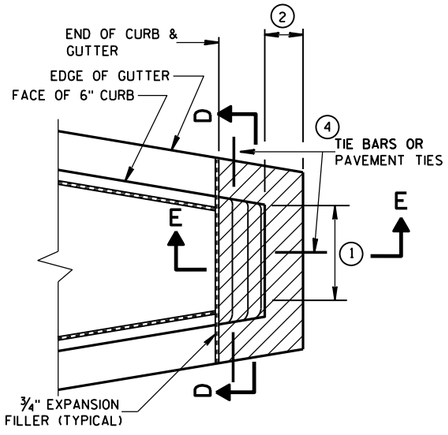
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

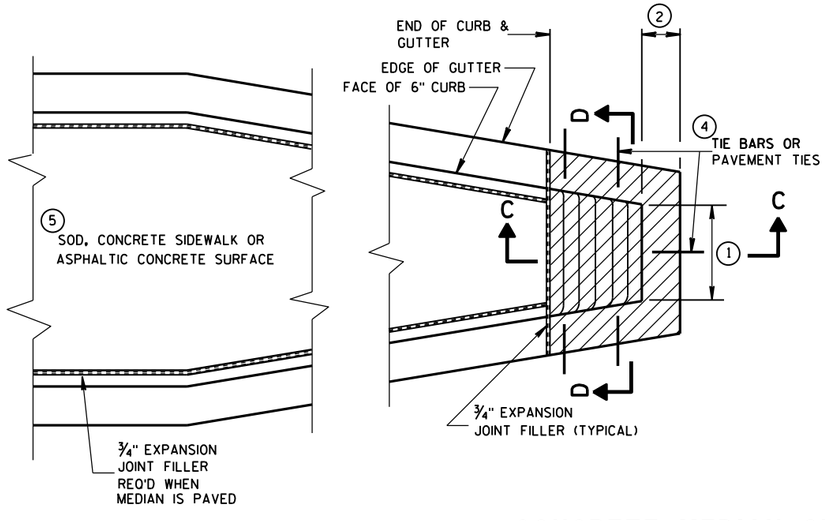
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

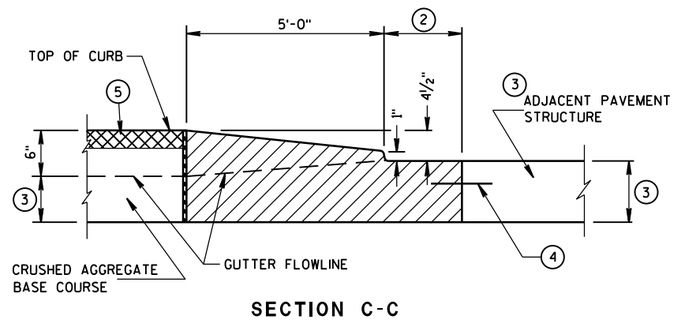
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

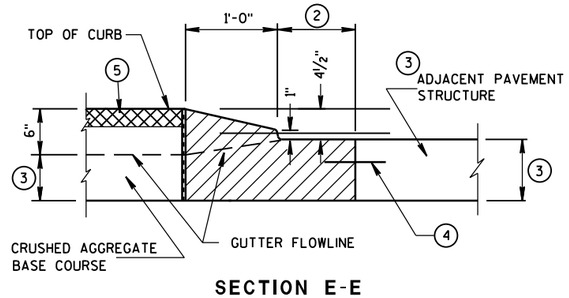
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

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



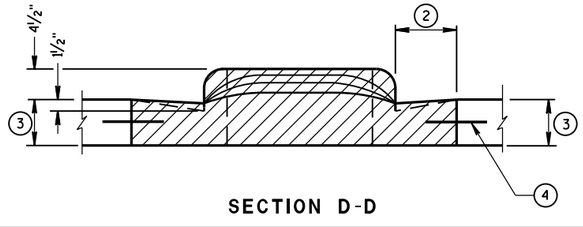






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

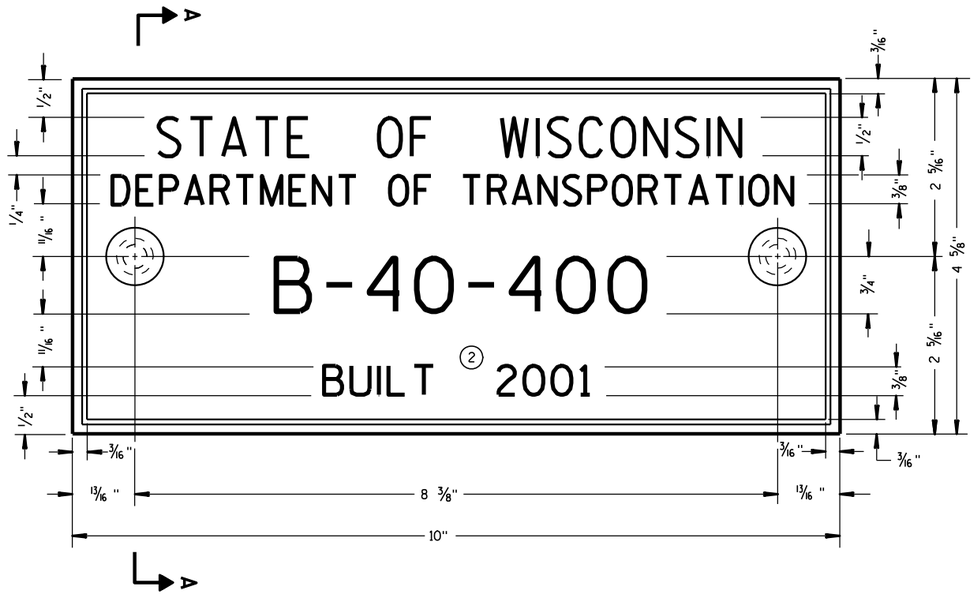
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

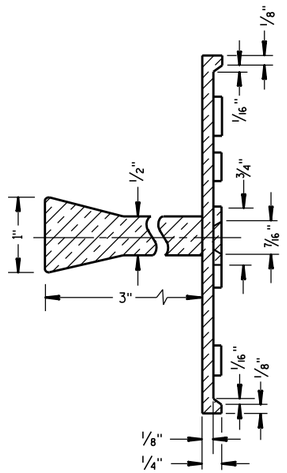
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

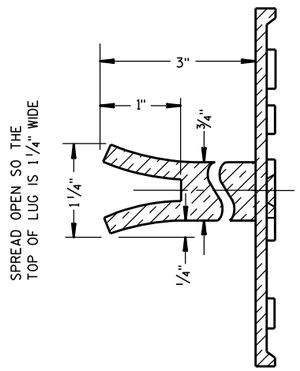
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

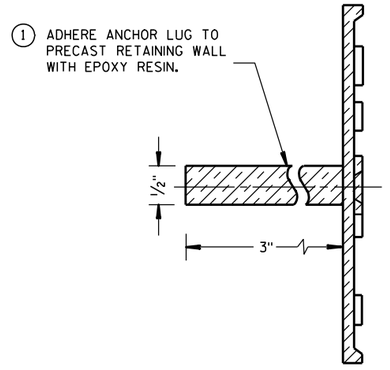
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

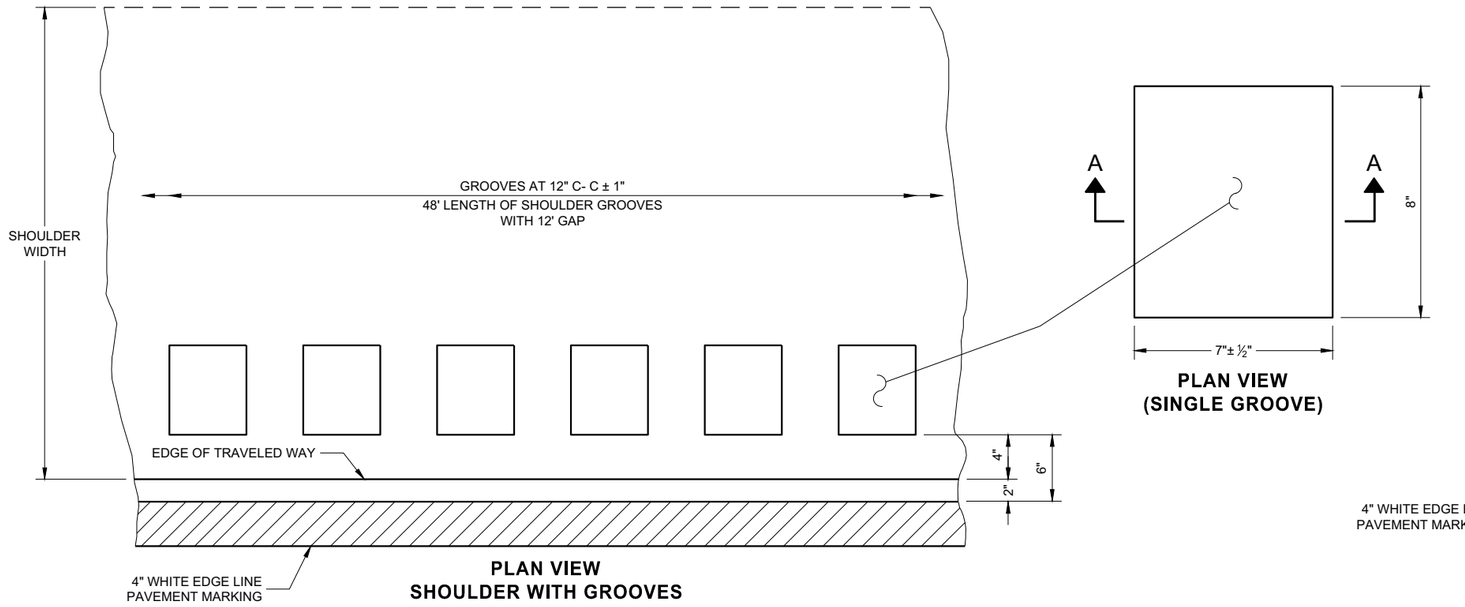
3/26/10 DATE

/S/ Scot Beck-- CHIEF STRUCTURAL DEVELOP ENGINEER

FHWA

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S.D.D. 12 A 3-10



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

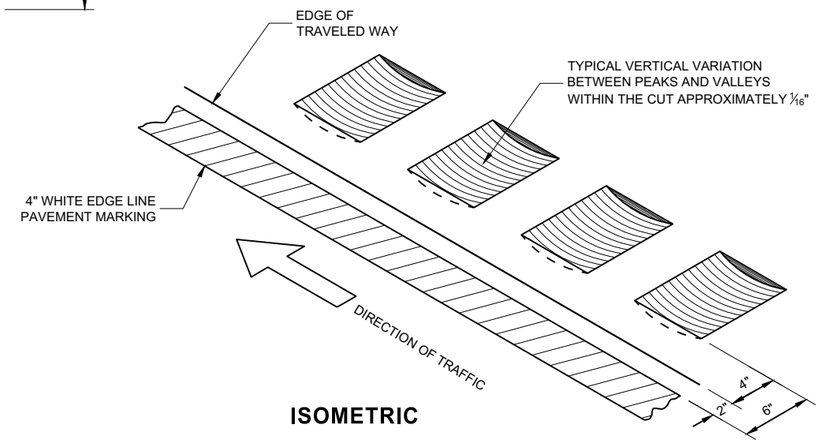
PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

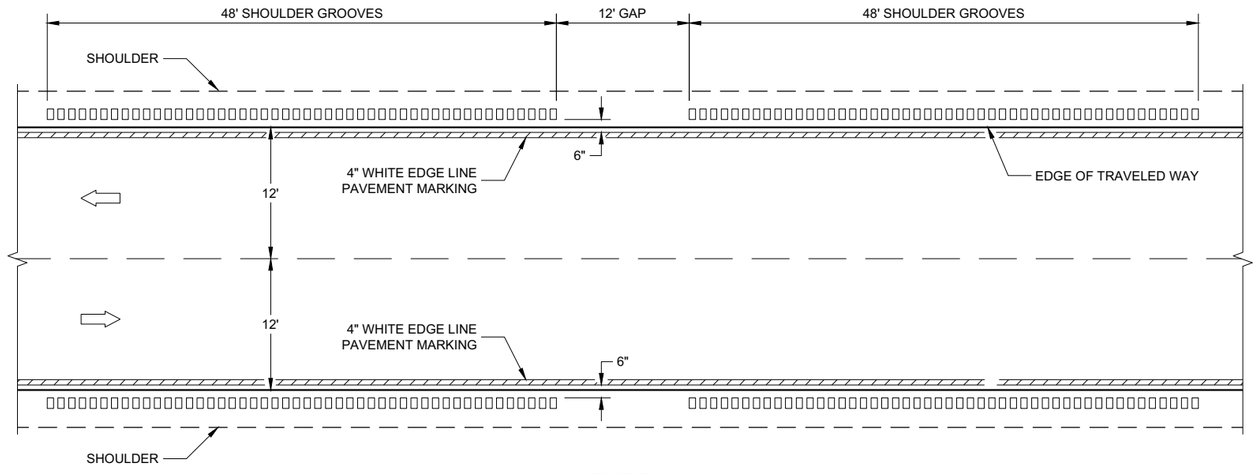
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

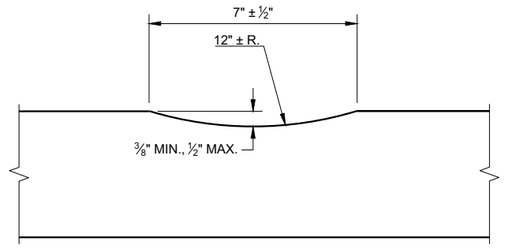
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



TYPE 1
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

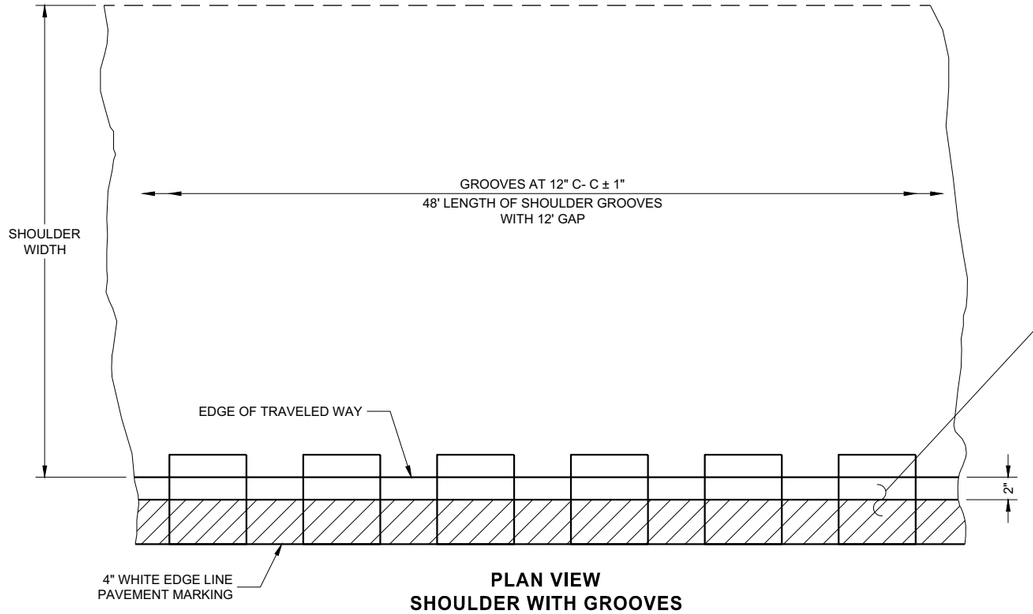
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

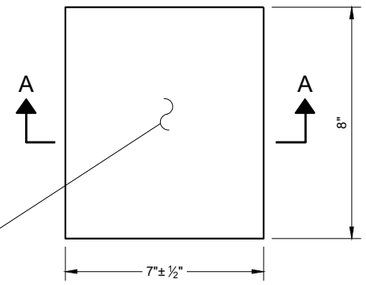
SDD 13A10 - 02a

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SDD 13A10 - 02a



PLAN VIEW
SHOULDER WITH GROOVES



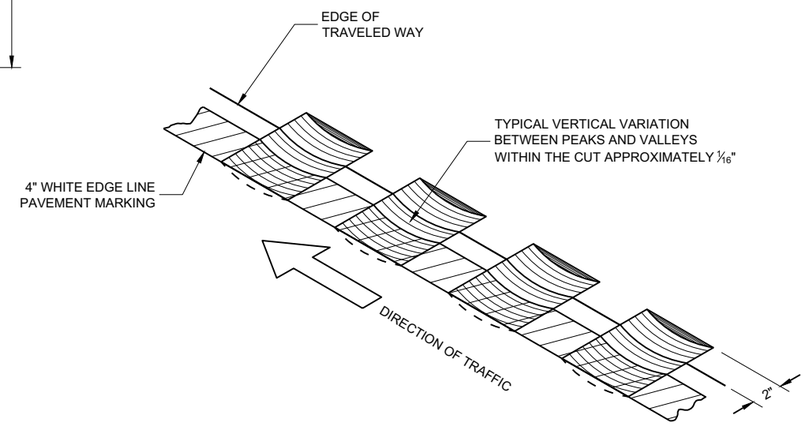
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

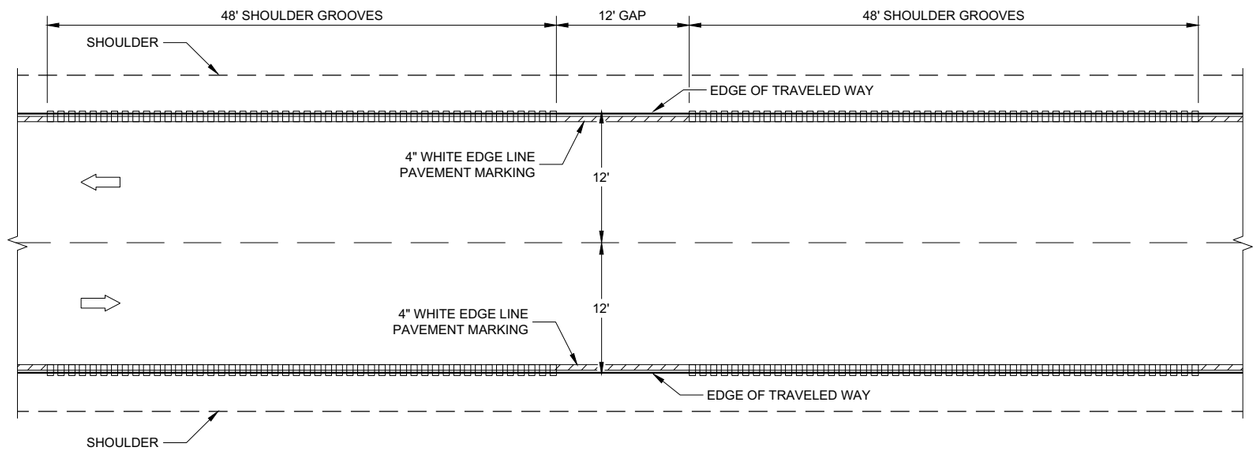
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

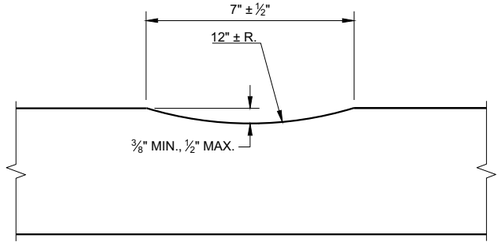


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2 - LANE SHOULDER RUMBLE STRIP



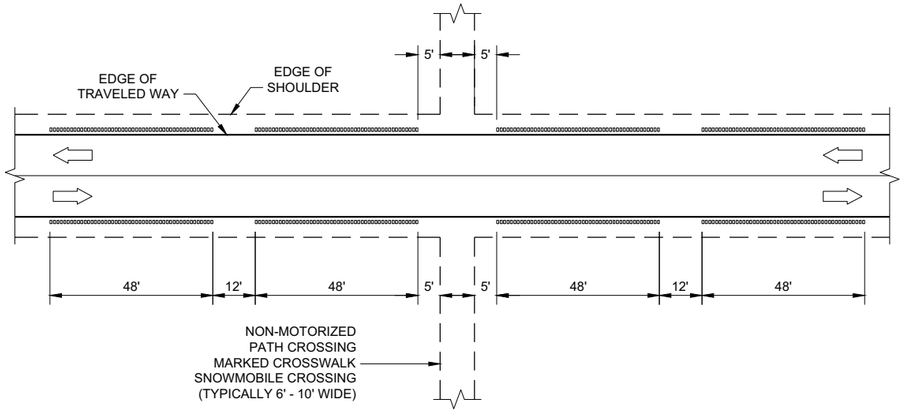
SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

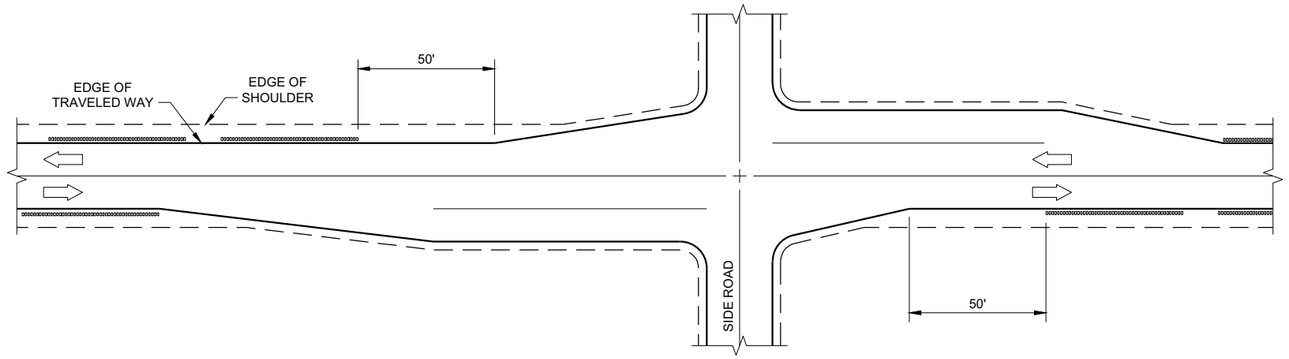
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13A10 - 02b

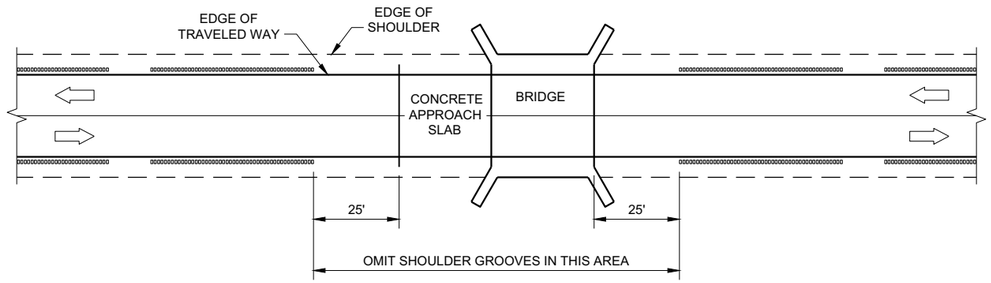
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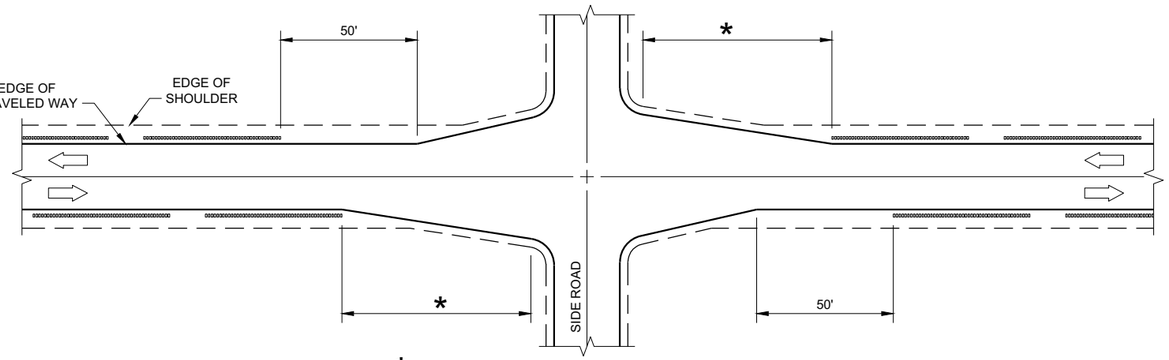
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



SHOULDER GROOVES AT RIGHT TURN LANE

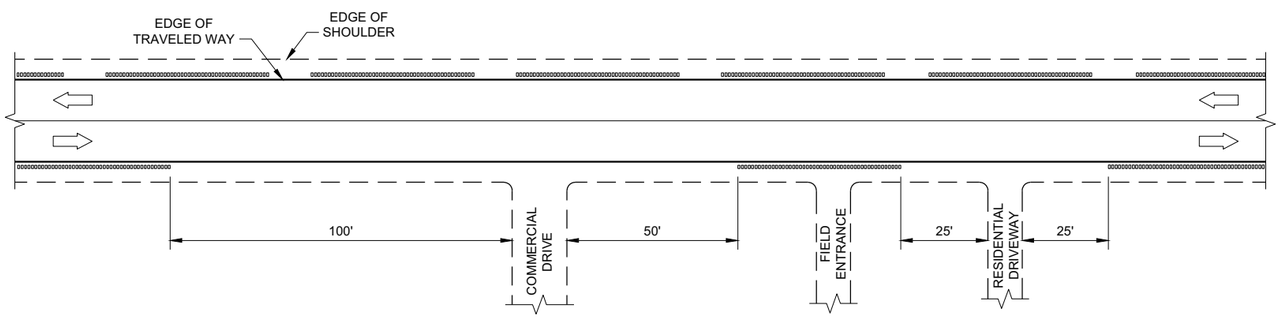


SHOULDER GROOVES AT BRIDGES



* GREATER OF 100' OR APPROACH TAPER LENGTH

SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER



SHOULDER GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

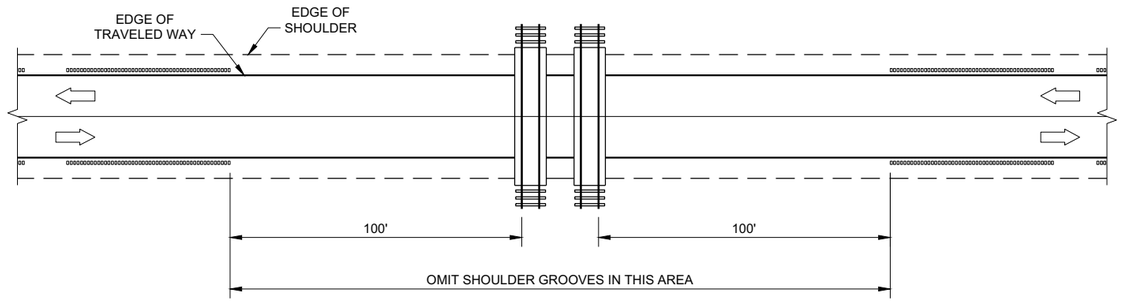
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

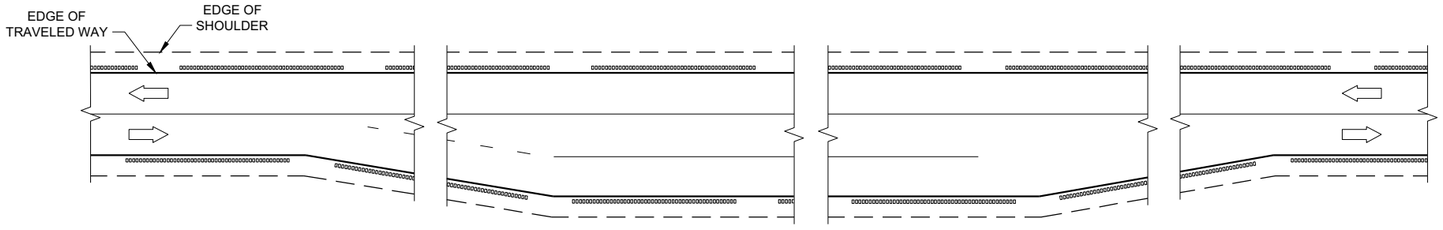
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

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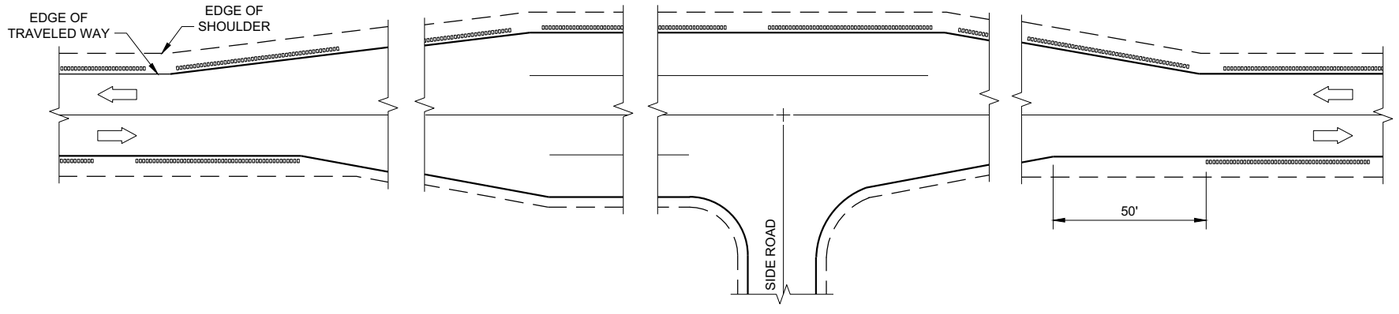
SDD 13A10 - 02c
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

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SDD 13A10 - 02d

SDD13A10 - 02d

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

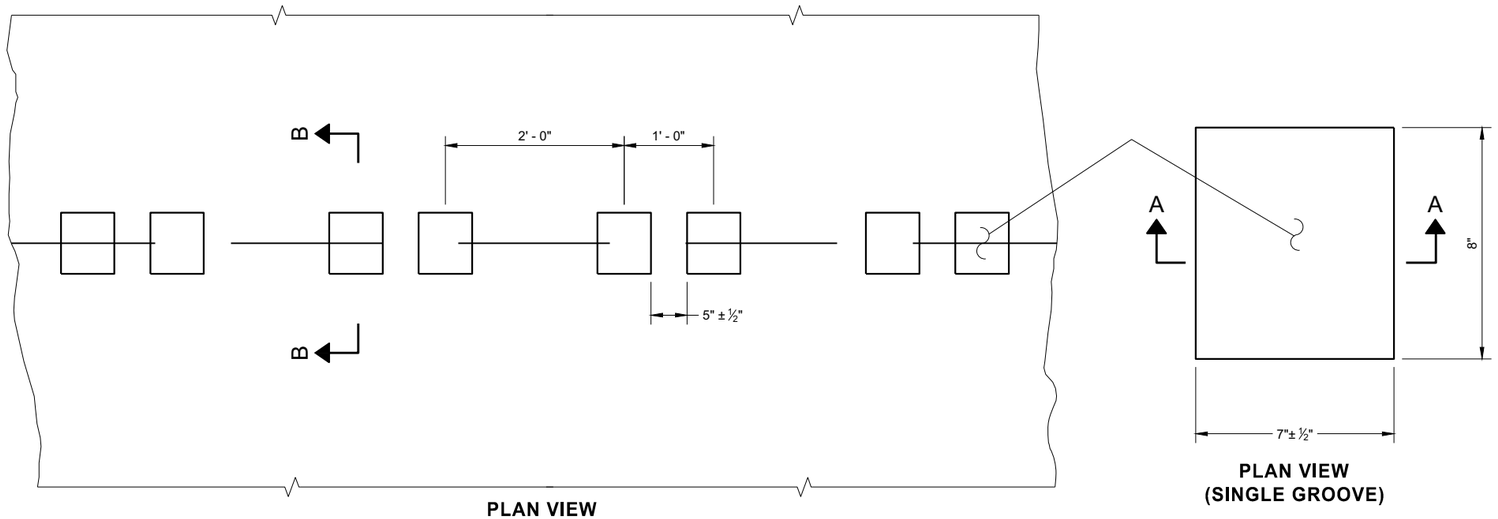
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

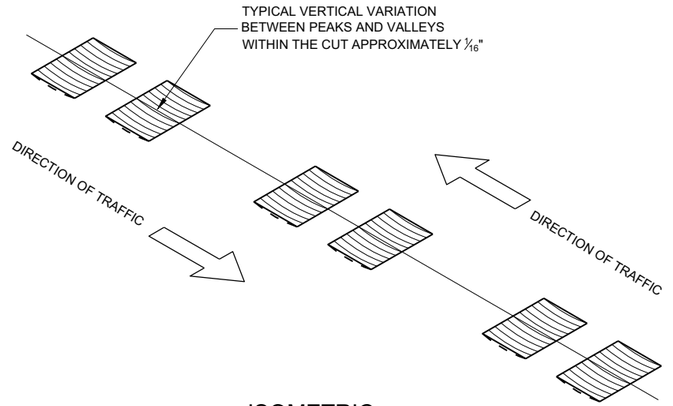
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

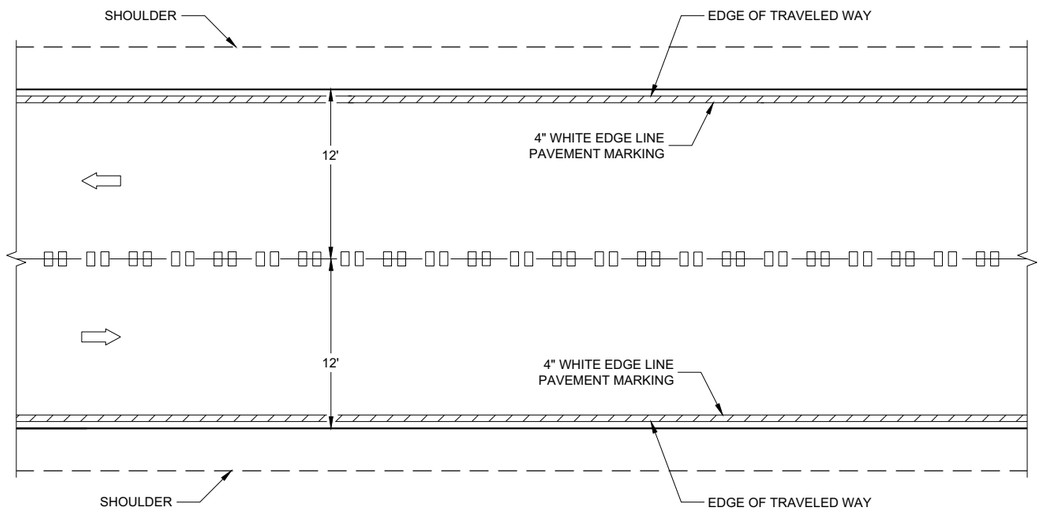
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

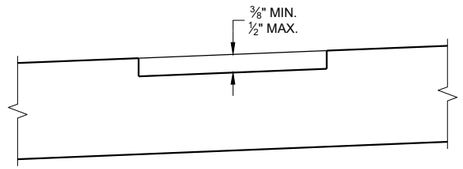
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



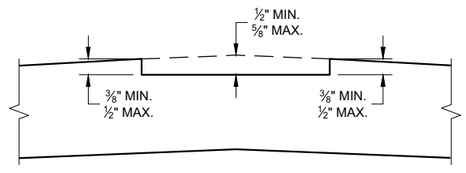
ISOMETRIC



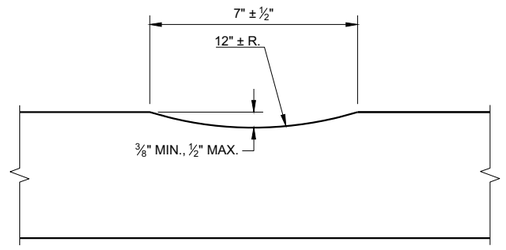
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



SECTION A - A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

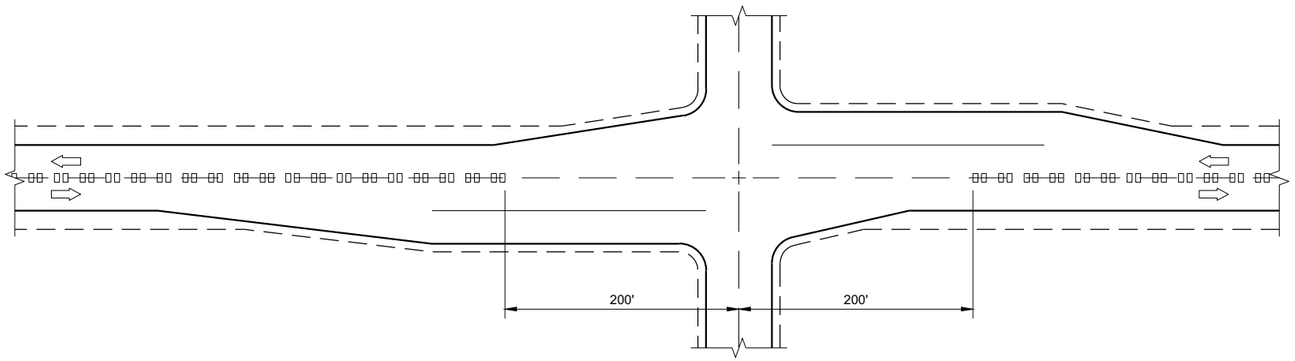
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

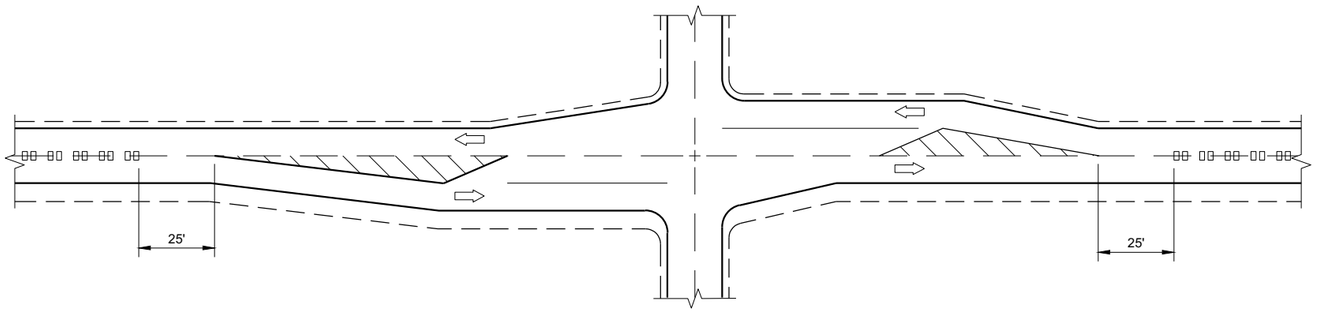
SDD 13A11 - 03a

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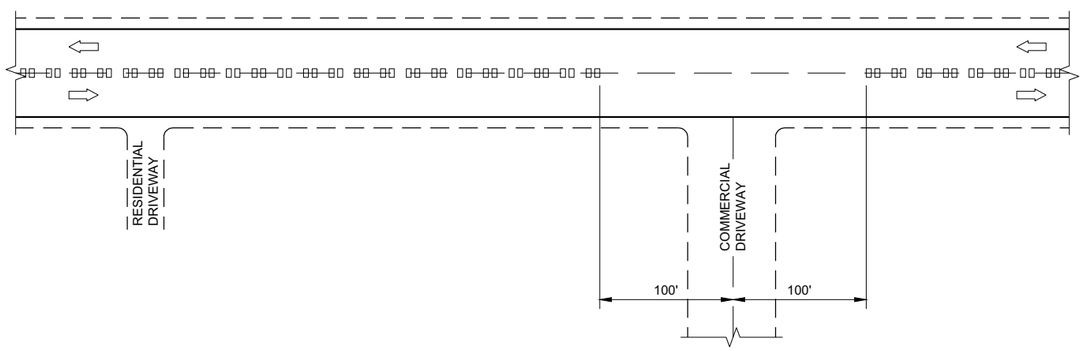
SDD 13A11 - 03a



CENTERLINE GROOVES AT INTERSECTIONS



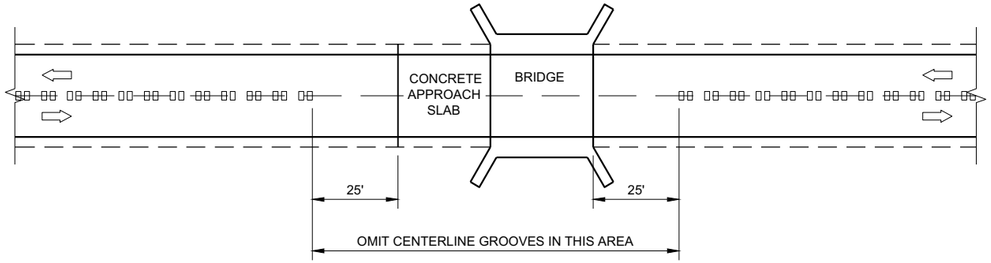
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



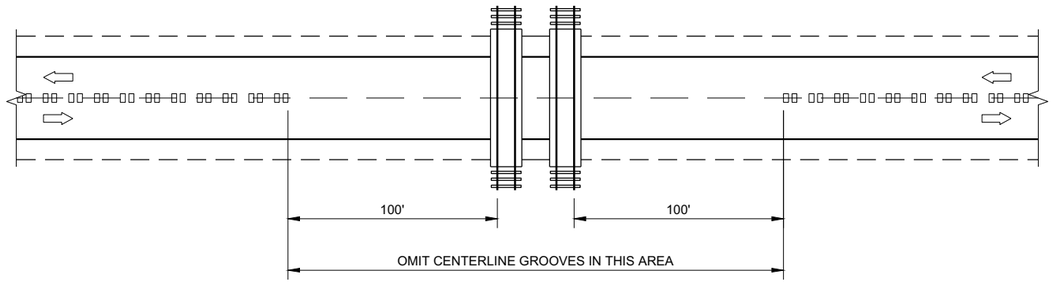
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

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



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

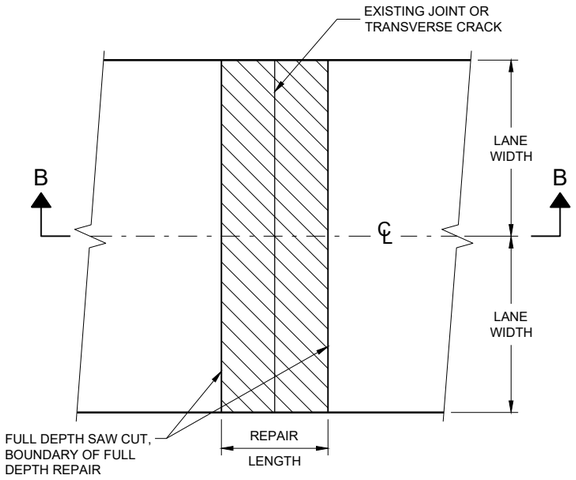
2-LANE RURAL
CENTERLINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

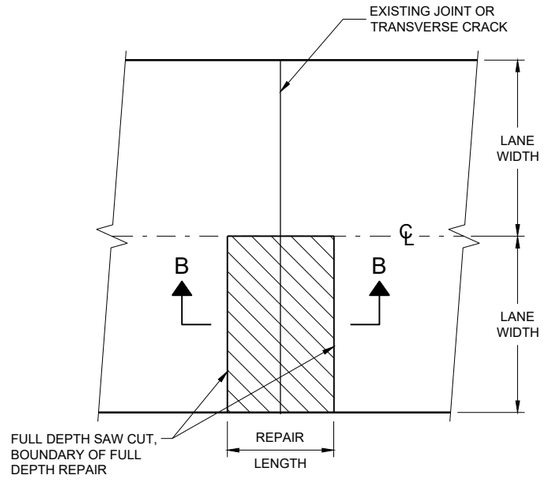
APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6
SDD13A11 - 03b



PLAN VIEW
(DOUBLE LANE REPAIR)



PLAN VIEW
(SINGLE LANE REPAIR)

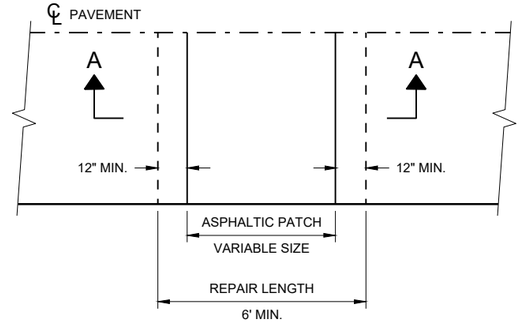
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

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

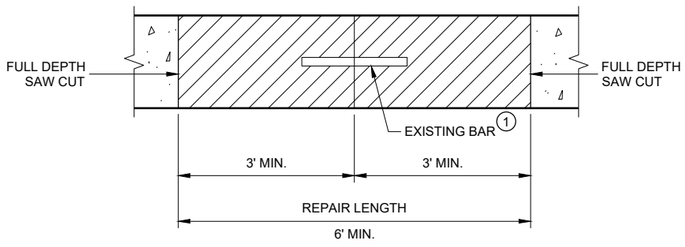
THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

(1) DOWEL BARS MAY NOT BE PRESENT.



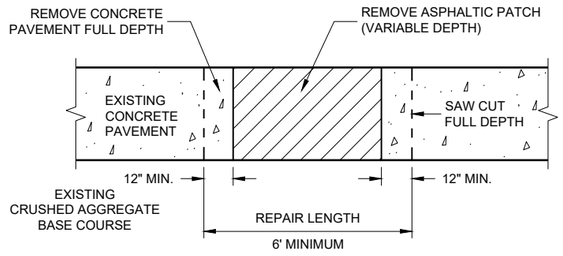
PLAN VIEW

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B - B

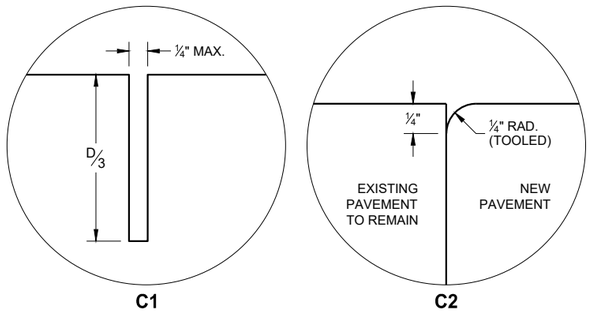
CONCRETE REMOVAL



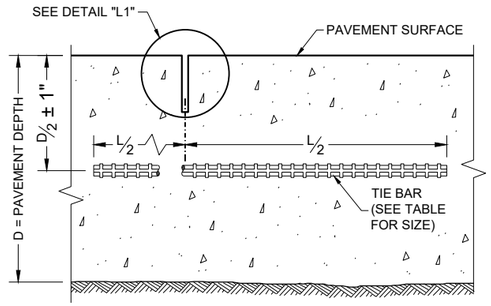
SECTION A - A

HMA PATCH REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

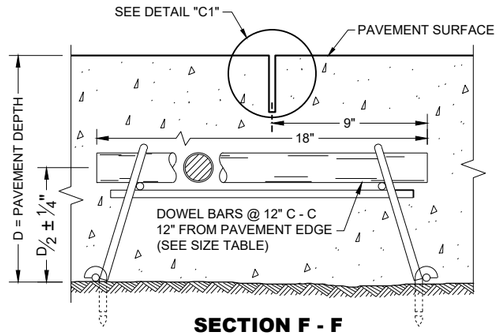


TRANSVERSE JOINTS



SECTION C - C

SAWED LONGITUDINAL JOINT



SECTION F - F

DOWELED CONTRACTION JOINT

GENERAL NOTES

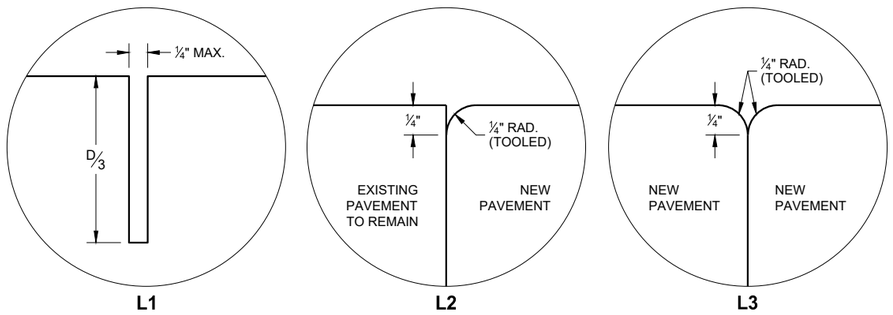
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NON-DOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

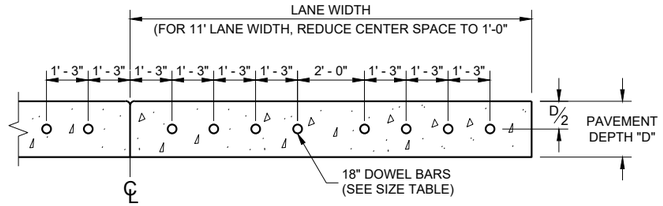
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

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

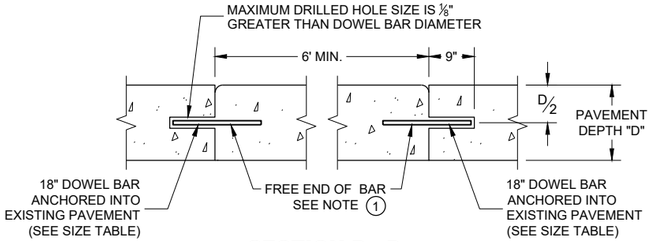


LONGITUDINAL JOINTS



SECTION E - E

DRILLED DOWEL BAR CONSTRUCTION JOINT



SECTION D - D

TIE BAR TABLE

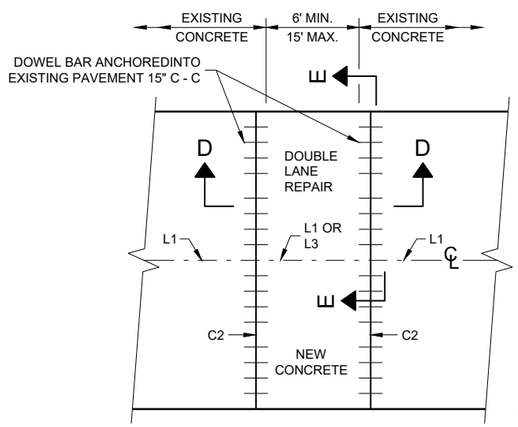
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

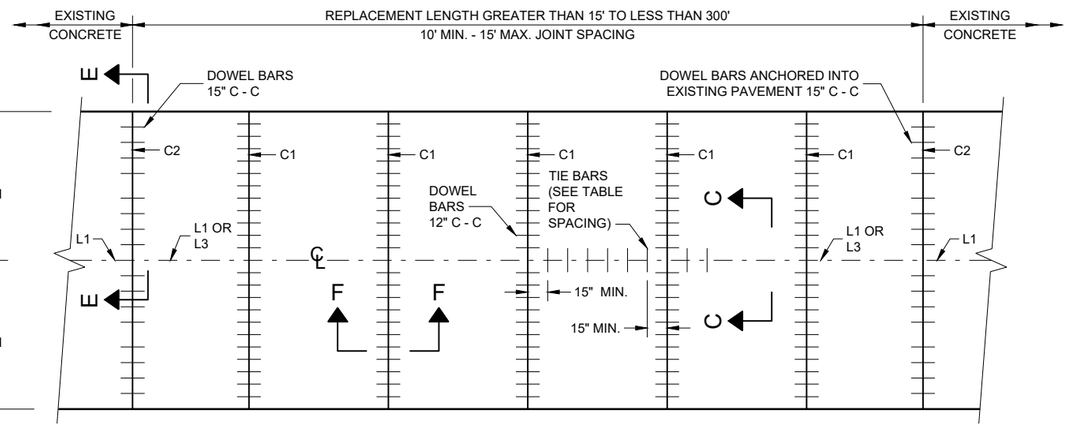
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	NONE	12'
7", 7 ½"	1"	1"	14'
8" & ABOVE	1 ¼"	1 ¼"	15'



PLAN VIEW

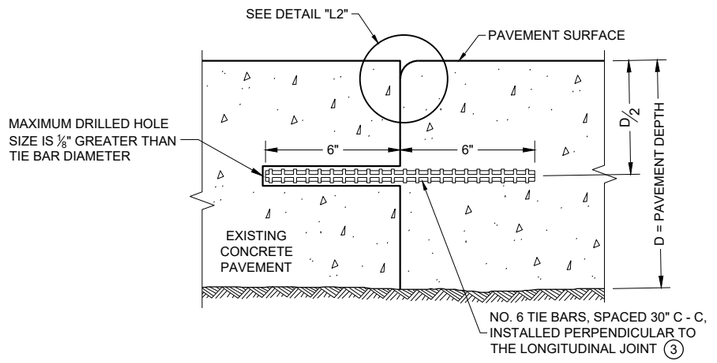
MULTILANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

MULTILANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

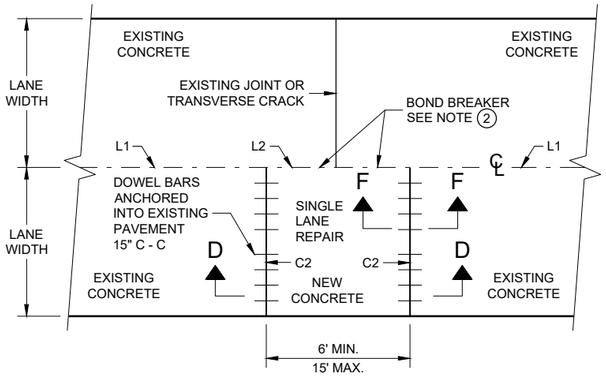


SECTION G - G

TIE BARS ANCHORED INTO EXISTING PAVEMENT

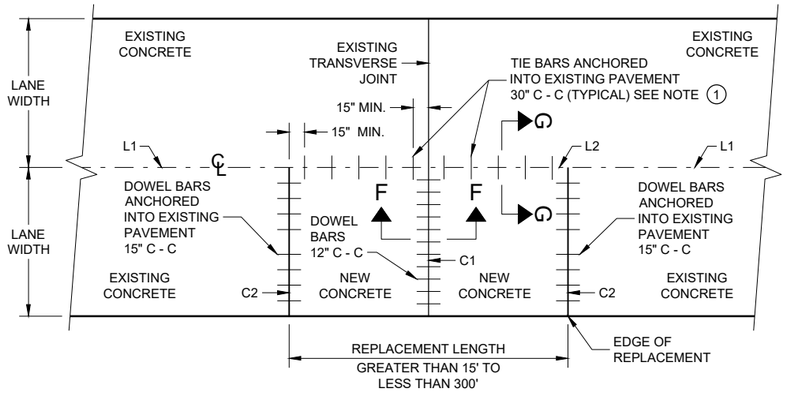
GENERAL NOTES

1. WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
2. USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
3. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE REPAIR AND REPLACEMENT

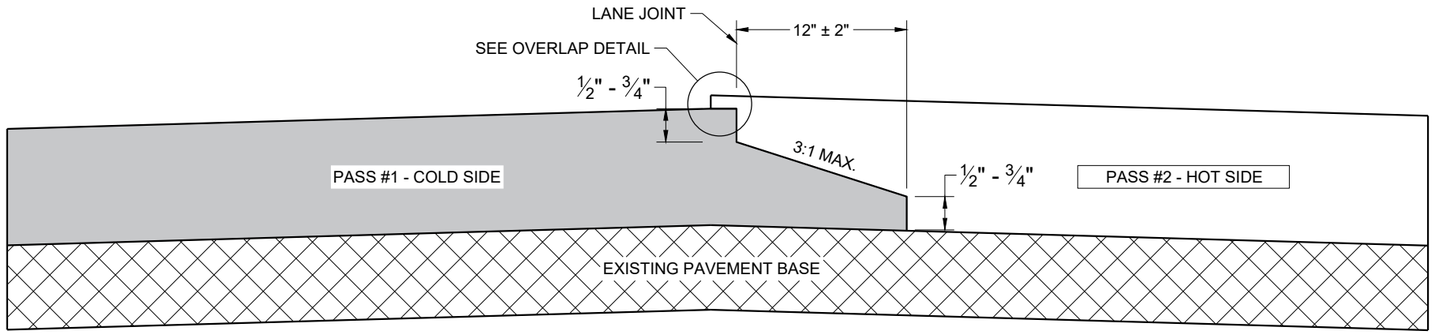
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

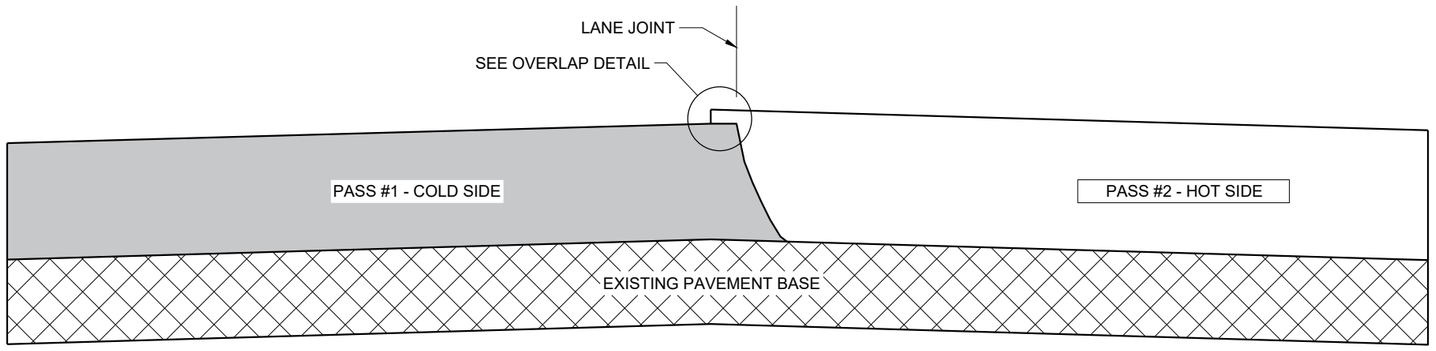
FHWA

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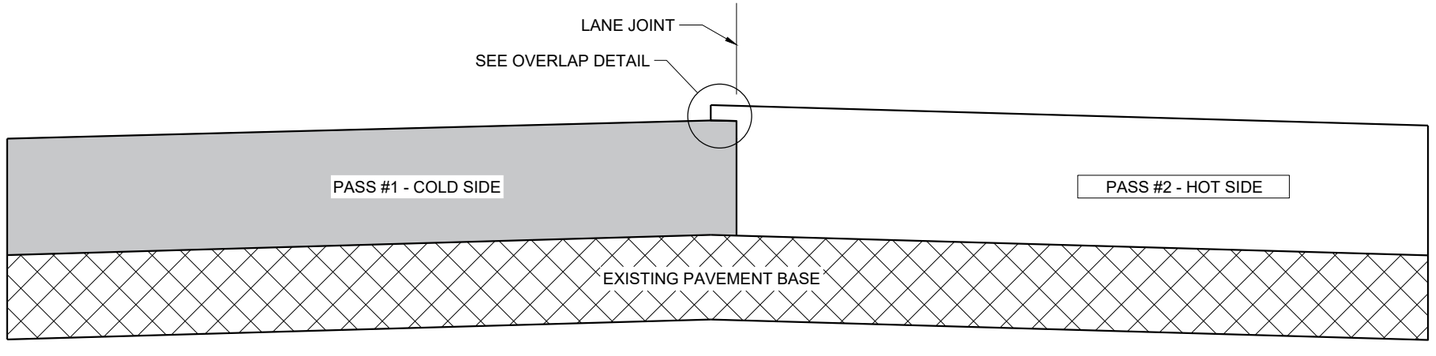
SDD 13C09 - 16c



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

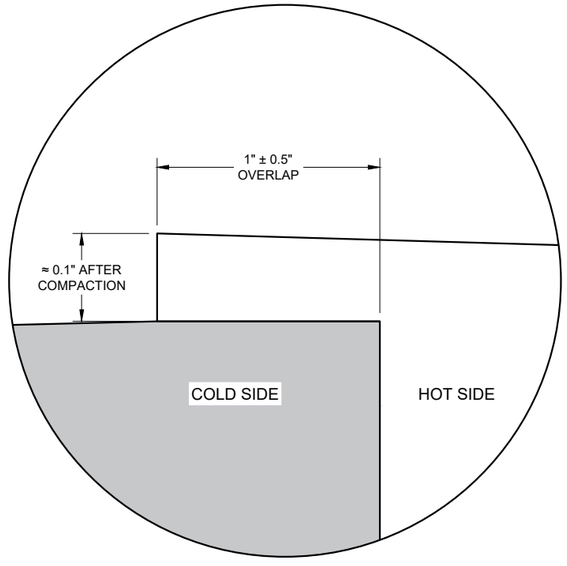
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

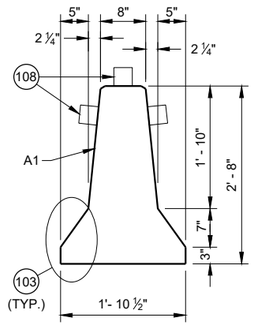
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

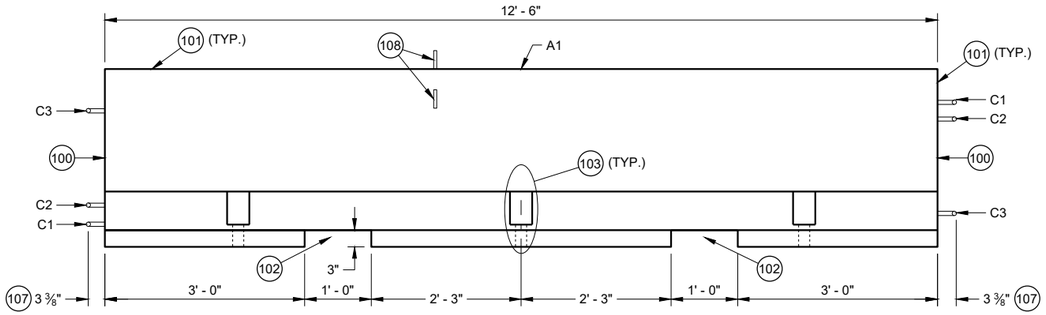
APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



CROSS SECTION



PROFILE VIEW

GENERAL NOTES

PLACE BARRIER ON PAVED SURFACE. BEFORE PLACEMENT OF TEMPORARY BARRIER, REMOVE ALL LOOSE MATERIAL FROM PAVED SURFACE.

LOOP BARS C1, C2 AND C3 ARE NOT FOR PLACEMENT OR MOVEMENT OF BARRIER.

(100) PERMANENTLY FORM INTO ONE END OF BARRIER THE FOLLOWING INFORMATION:
- A. TYPE OF BARRIER: WI-CBTP
- B. MANUFACTURER
- C. DATE OF MANUFACTURE (MONTH AND YEAR)

(101) 1" OPTIONAL CHAMFER

(102) SEE LIFTING SLOT DETAIL

(103) SEE ANCHOR BLOCK DETAIL

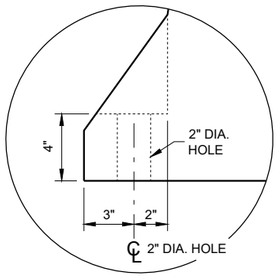
(104) 1 ¾" MIN. CLEAR COVER

(105) 2" MIN. CLEAR COVER

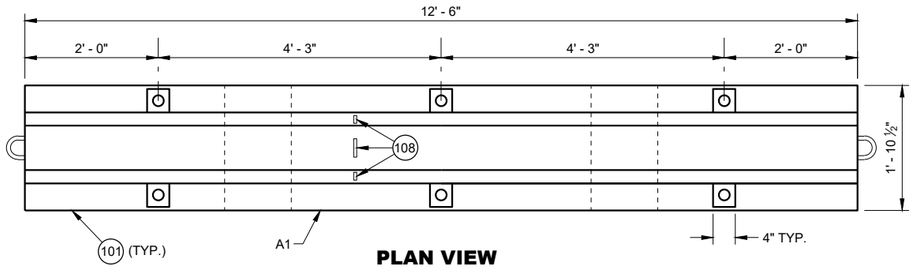
(106) 1" MIN. CLEAR COVER

(107) ± ⅛" MEASURED FROM FACE OF CONCRETE BARRIER TO OUTSIDE OF LOOP BAR (TYP.)

(108) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURERS INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED LEFT OF TRAFFIC AND WHITE WHEN BARRIER IS LOCATED RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART, PROVIDE TO MOUNTED DELINEATORS IN ADDITION TO SIDE MOUNTED DELINEATORS ON BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAT 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

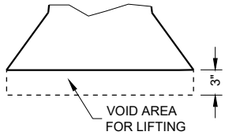


ANCHOR BLOCK DETAIL

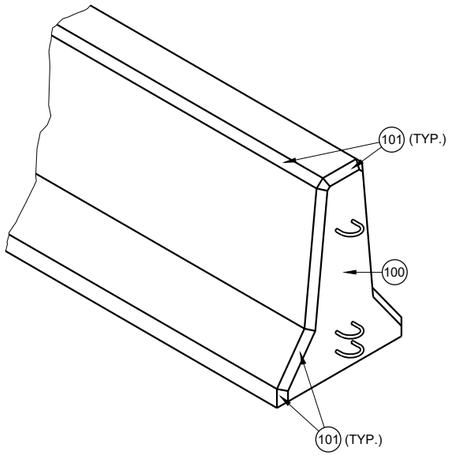


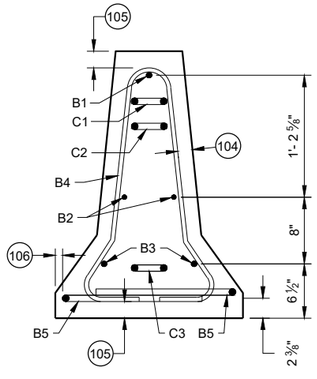
PLAN VIEW

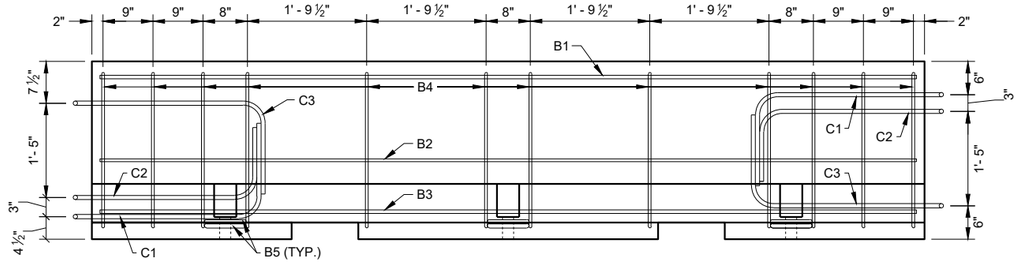
TEMPORARY BARRIER



LIFTING SLOT DETAIL (TYP.)







PROFILE VIEW

TEMPORARY BARRIER REINFORCEMENT

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

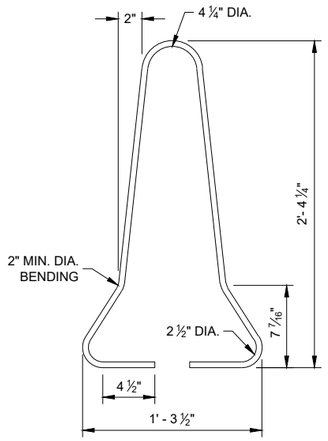
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

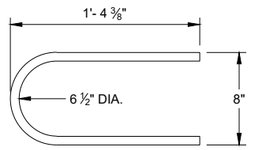
SDD 14B07-16a

6

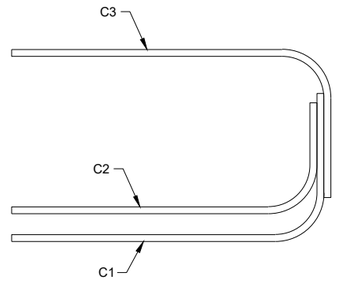
SDD 14B07-16a



B4 BAR DETAIL

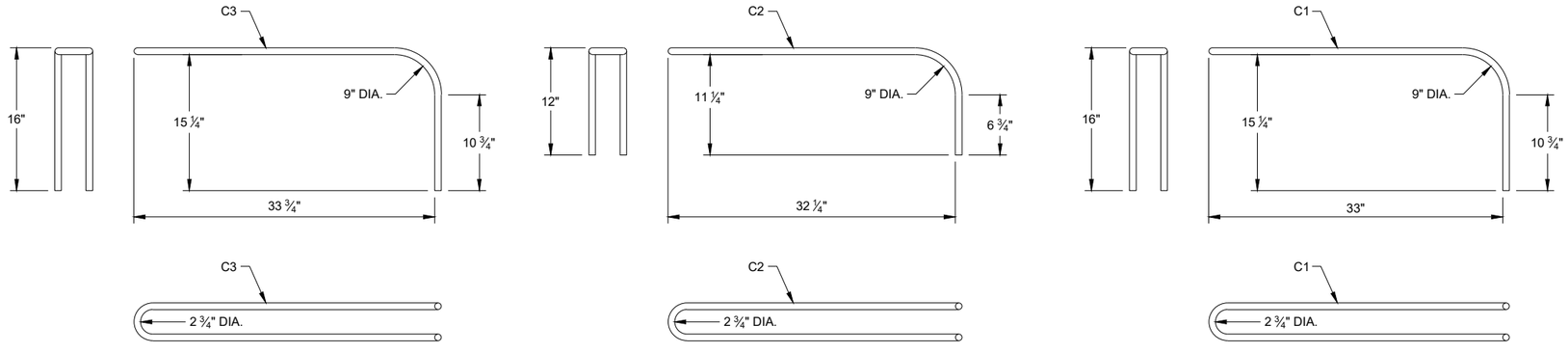


B5 BAR DETAIL



PROFILE VIEW

LOOP BAR ASSEMBLY



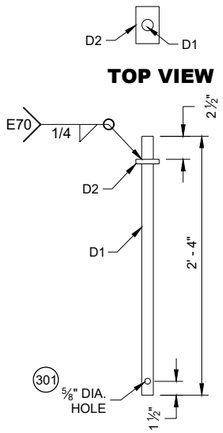
C BAR DETAILS

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

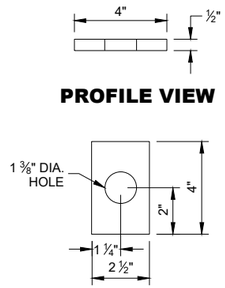
SDD 14B07-16b



TOP VIEW

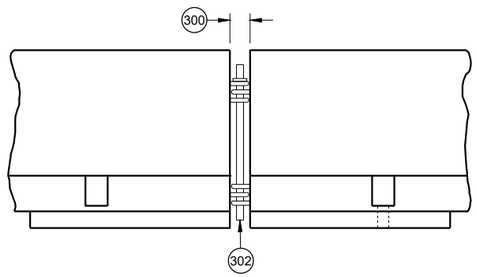
PROFILE VIEW

CONNECTOR PIN ASSEMBLY



PROFILE VIEW

TOP VIEW D2



CONNECTING TEMPORARY BARRIER SECTIONS

GENERAL NOTES

300 SET WITH 3 ⅝" WOOD BLOCK.

301 HOLE IS OPTIONAL.

302 CONNECTOR PIN ASSEMBLY.

303 CONCRETE PAVEMENT, APPROACH SLAB, OR DECK.

304 CONCRETE DECK.

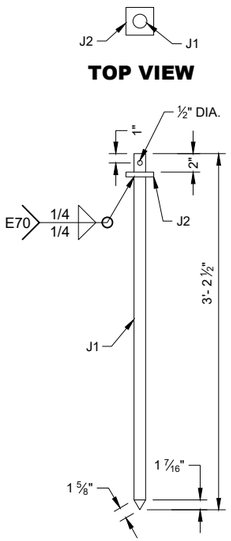
305 DO NOT USE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY OR CONCRETE PAVEMENT WITH ASPHALT OVERLAY.

306 MINIMUM OF 2" OF ASPHALT.

307 ASPHALT ANCHOR PIN ASSEMBLY

308 IF DRILLING A PILOT HOLE, THE MAX, DIA. OF THE HOLE IS 3/4"

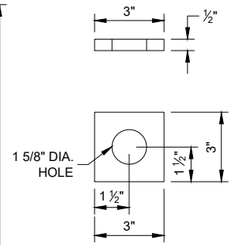
309 WHEN THERE IS ASPHALT OVERLAYING CONCRETE PAVEMENT, A 1 5/8" DIA. PILOT HOLE CAN BE DRILLED INTO THE OVERLAY AND CONCRETE. IF NEEDED DRILL A 3/4" PILOT HOLE IN BASE COURSE.



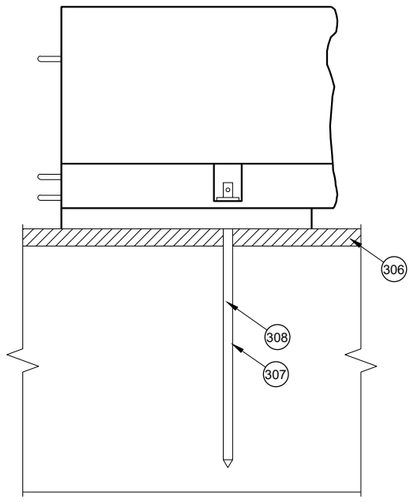
TOP VIEW

PROFILE VIEW

ASPHALT ANCHOR PIN ASSEMBLY

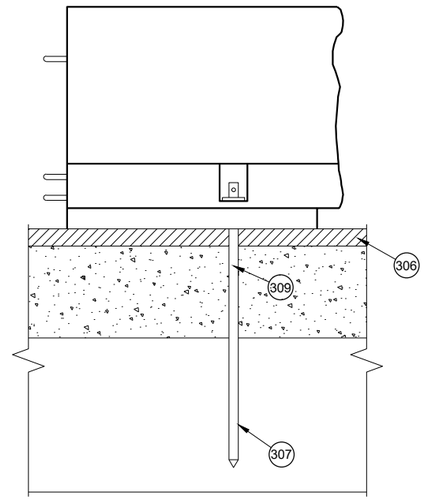


TOP VIEW J2



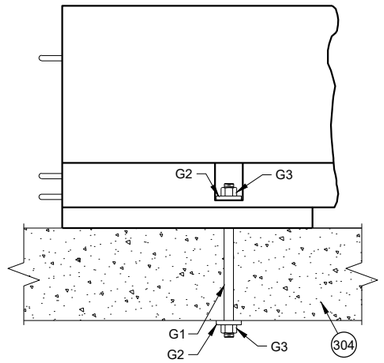
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT PAVEMENT



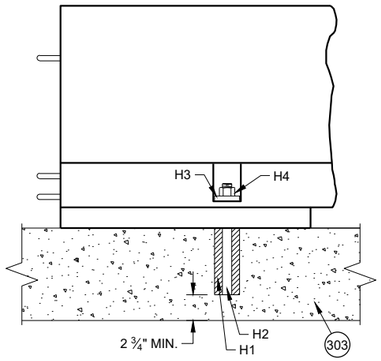
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT OVERLAY ON TOP OF CONCRETE PAVEMENT



SIDE VIEW

THROUGH BOLT ANCHOR INSTALLATION (305)



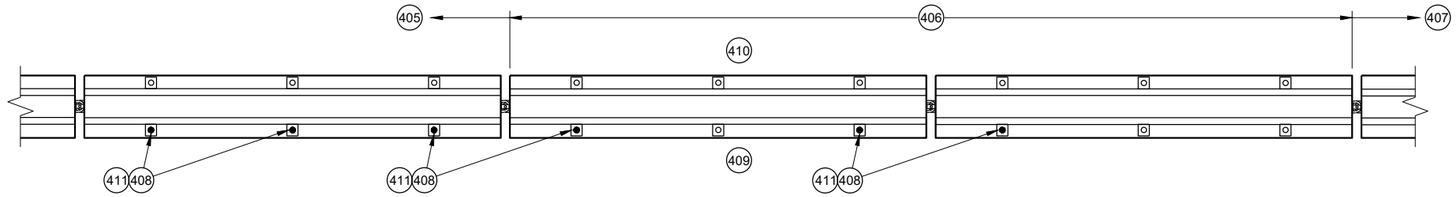
SIDE VIEW

ADHESIVE ANCHOR INSTALLATION (305)

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

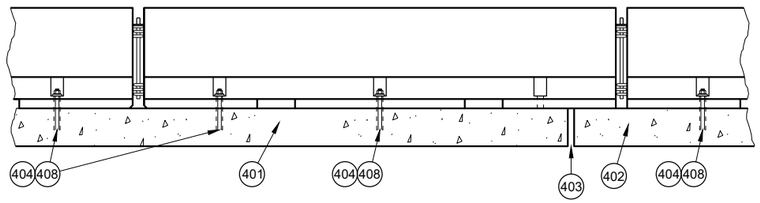
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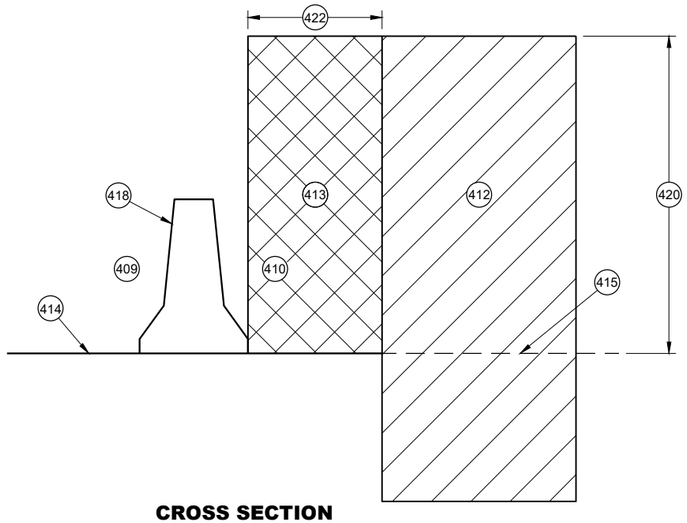
PLAN VIEW

TRANSITION FROM FREE STANDING TO ANCHORED BARRIER



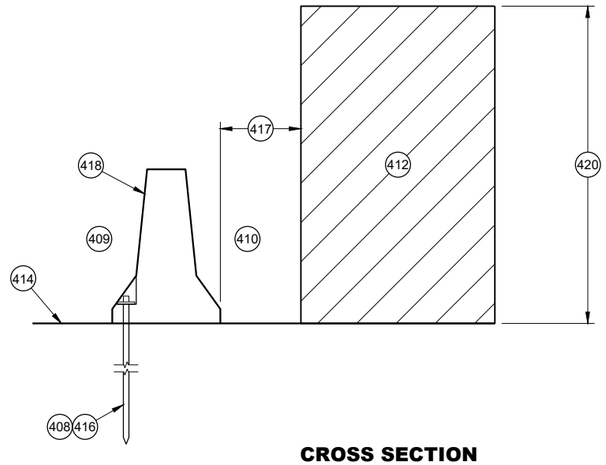
PROFILE VIEW

ANCHORED BARRIER NEAR EXPANSION JOINT (400)



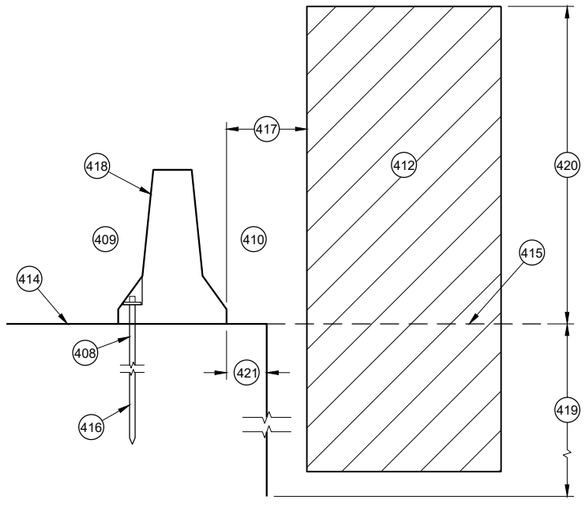
CROSS SECTION

FREE STANDING BARRIER



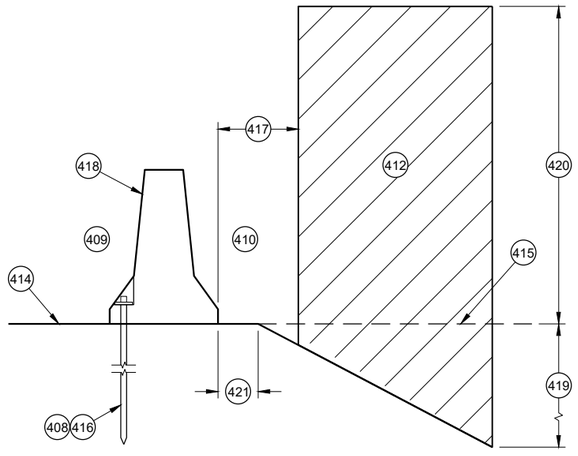
CROSS SECTION

ANCHORED BARRIER FOR OBJECTS ABOVE THE GRADE LINE AND NEAR THE BARRIER



CROSS SECTION

ANCHORED BARRIER NEAR VERTICAL DROP OFF



CROSS SECTION

ANCHORED BARRIER NEAR A SLOPE

GENERAL NOTES

(400) NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.

(401) CONCRETE DECK

(402) CONCRETE DECK OR APPROACH SLAB.

(403) EXPANSION JOINT

(404) ADHESIVE ANCHOR SHOWN. SEE ANCHOR DETAILS.

(405) ANCHORED TEMPORARY BARRIER

(406) TRANSITION FROM ANCHORED TEMPORARY BARRIER TO FREE STANDING

(407) FREE STANDING BARRIER

(408) REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERCIAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(409) TRAFFIC SIDE

(410) NON-TRAFFIC SIDE

(411) ANCHOR LOCATION. SEE ANCHORING DETAILS.

(412) WORK AREA

(413) AREA FREE OF OBJECTS AND WORKERS

(414) GRADE LINE

(415) EXTENDED GRADE LINE

(416) ANCHORED TEMPORARY BARRIER. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR AN ASPHALT ANCHOR ROD DETAILS FOR MORE INFORMATION. ASPHALT ANCHOR ROD SHOWN.

(417) WHEN OBJECTS EXTEND ABOVE THE GRADE. A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT.

(418) OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR ALLOWED TO LEAN AGAINST THE BARRIER WITHOUT WRITTEN PERMISSION OF THE PROJECT ENGINEER.

(419) DEPTHS OF 3 FEET OR MORE.

(420) Y = 6.5'

(421) OFFSET FROM BACK OF BARRIER EDGE:

CONCRETE PAVEMENT	0.5'
ASPHALT	0.5'

(422) POSTED SPEED (MPH):

45 OR GREATER	4.0'
40 OR LOWER	2.0'

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

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GENERAL NOTES

(500) EXISTING RIGID BARRIERS (VARIES)

(501) TEMPORARY BARRIER

(502) SEE OTHER DETAIL ON HOW TO ANCHOR TEMPORARY BARRIER (BARRIER ASPHALT ANCHOR SHOWN).

(503) ANCHORS ARE REQUIRED ON BOTH SIDE OF THE TEMPORARY BARRIER.

(504) NESTED RAILS ARE REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

(505) TRAFFIC TRAVELS FROM PERMANENT BARRIER TO TEMPORARY BARRIER.

(506) TRAFFIC TRAVELS FROM TEMPORARY BARRIER TO PERMANENT BARRIER.

(507) VERTICAL BARRIER

(508) SAFETY SHAPE BARRIER

(509) SINGLE SLOPE BARRIER

(510) CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF RIGID BARRIER.

(511) BENT THRIE BEAM TO FIT.

(512) THRIE BEAM PIECES ARE OFFSET 15 ¼" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.

(513) TWO (2) P1, P2 AND P3 ARE REQUIRED

(514) FIVE (5) N1, N2 AND N3 ARE REQUIRED

(515) TWO (2) R1, R2 AND R3 ARE REQUIRED

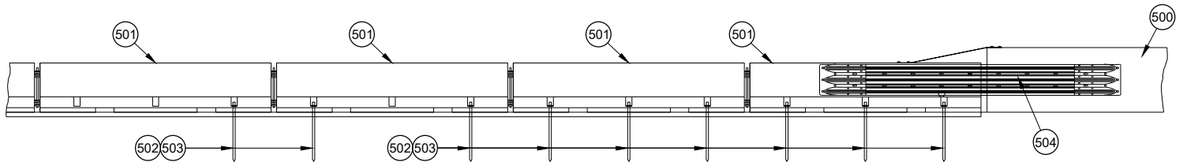
(516) CUT WOOD BLOCK TO FIT.

(517) SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL ASSEMBLY.

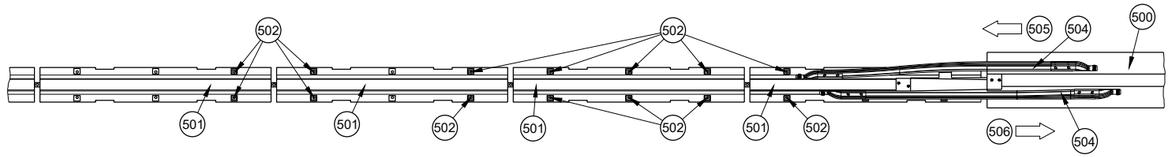
(518) CAP ASSEMBLY

(519) 4" MAX. GAP BETWEEN TEMPORARY BARRIER AND RIGID BARRIER.

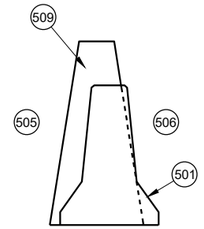
(520) ALL TWELVE SPLICE HOLES REQUIRE M1 AND M2



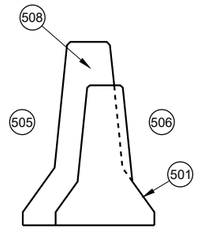
PROFILE VIEW



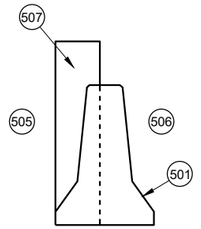
PLAN VIEW
TRANSITION TO RIGID BARRIER



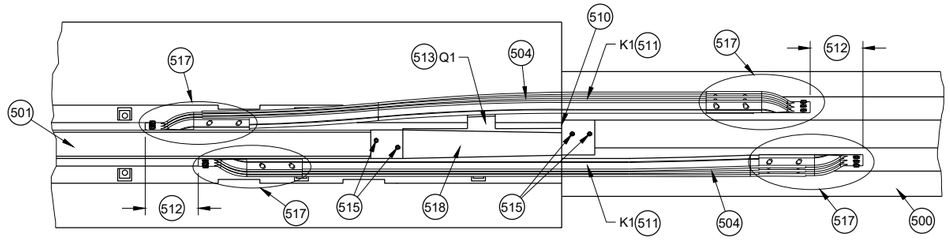
CROSS SECTION TEMPORARY BARRIER PLACEMENT SINGLE SLOPE



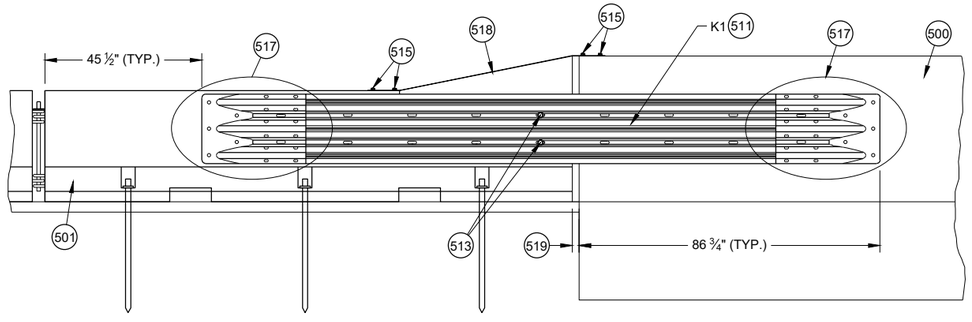
CROSS SECTION TEMPORARY BARRIER PLACEMENT SAFETY SHAPE



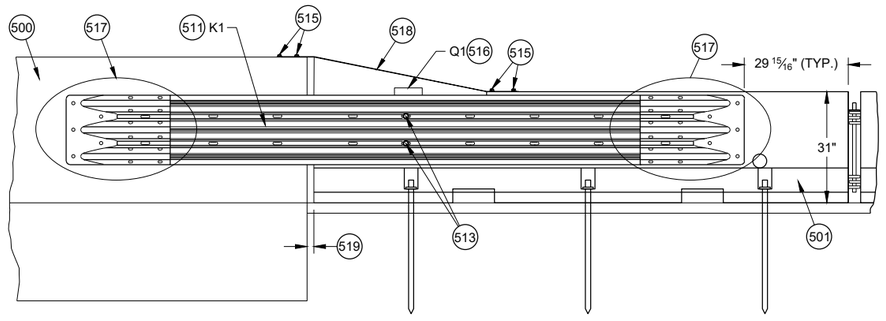
CROSS SECTION TEMPORARY BARRIER PLACEMENT VERTICAL



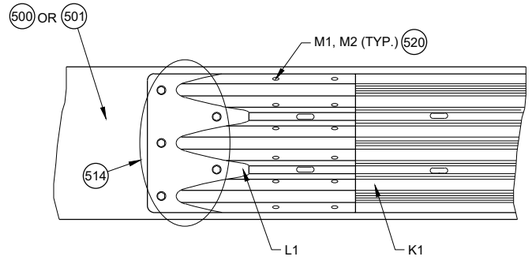
PLAN DETAIL VIEW
TRANSITION TO RIGID BARRIER



FRONT DETAIL VIEW
TRANSITION TO RIGID BARRIER



BACK DETAIL VIEW
TRANSITION TO RIGID BARRIER



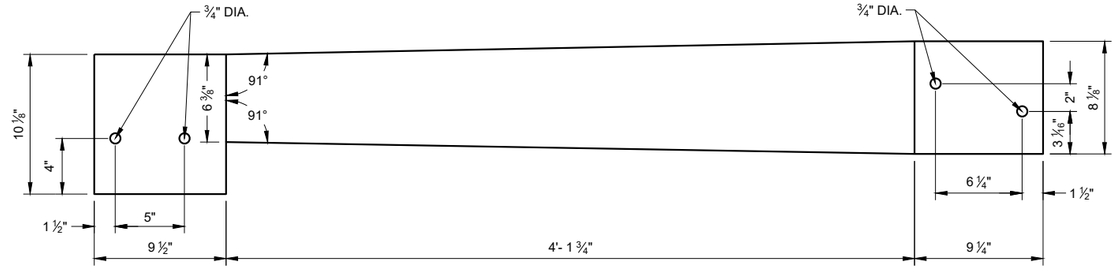
517 DETAIL PLAN VIEW
THRIE BEAM RAIL TERMINAL CONNECTOR ASSEMBLY

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

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DEPARTMENT OF TRANSPORTATION

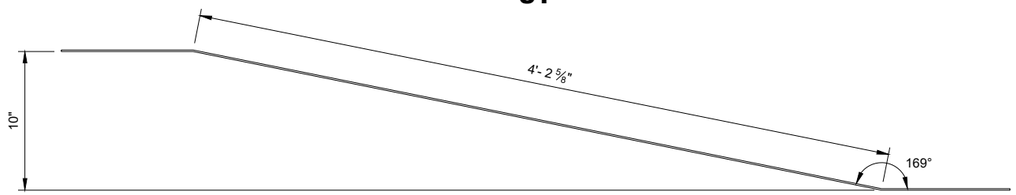
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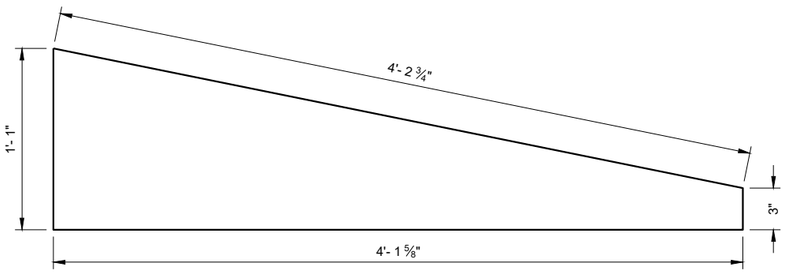
TOP VIEW

S1



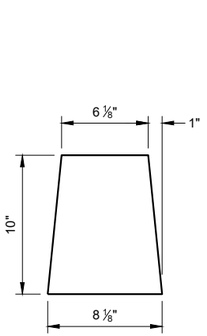
ELEVATION VIEW

S1

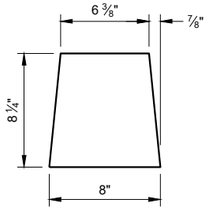


SIDE VIEW

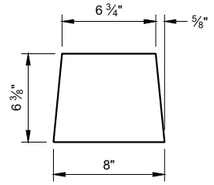
S3



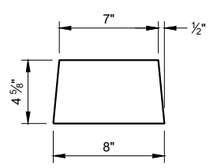
S2



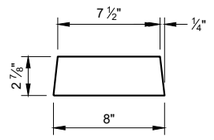
S4



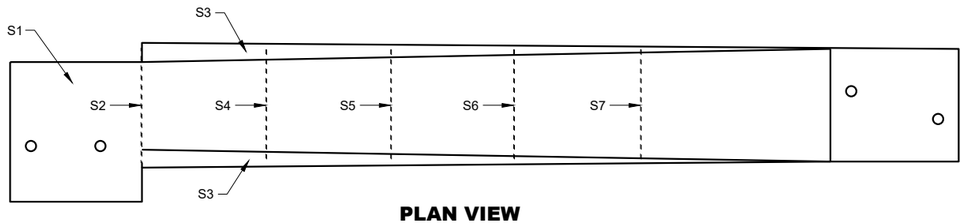
S5



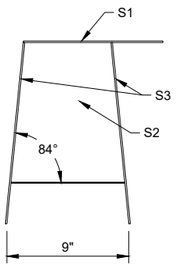
S6



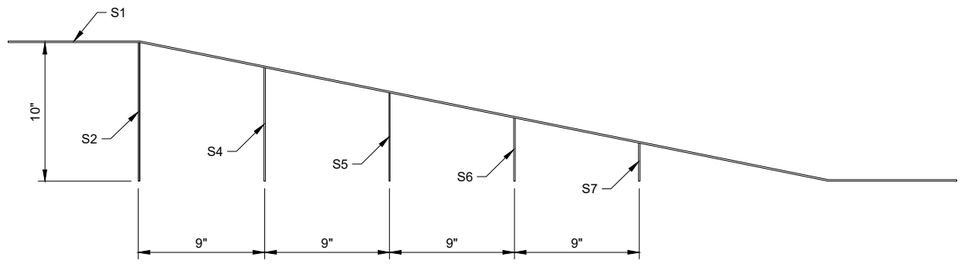
S7



PLAN VIEW



BACK VIEW



SIDE VIEW (600)

42" TOP CAP ASSEMBLY

GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THREE SIDES

STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

(600) SIDE PLATES (S3) NOT SHOWN FOR CLARITY.

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

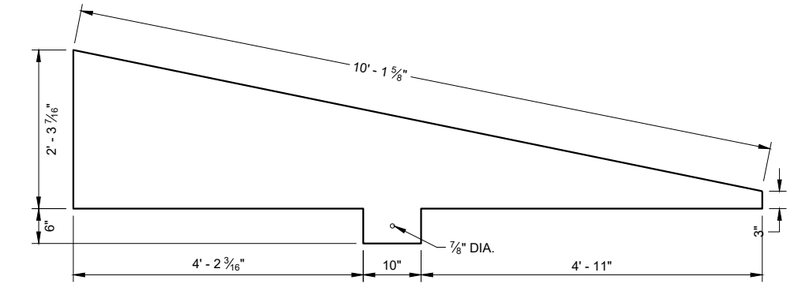
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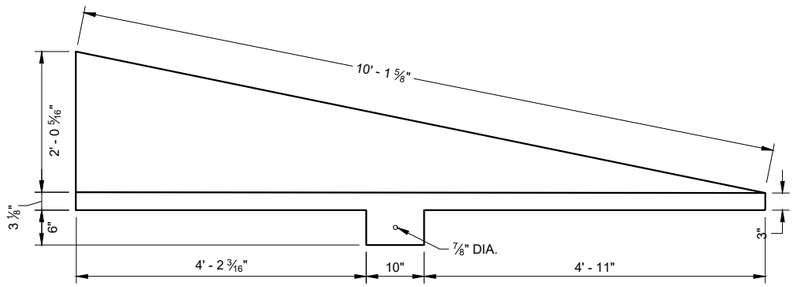
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SIDE VIEW
T4



END VIEW



SIDE VIEW
T3

END VIEW

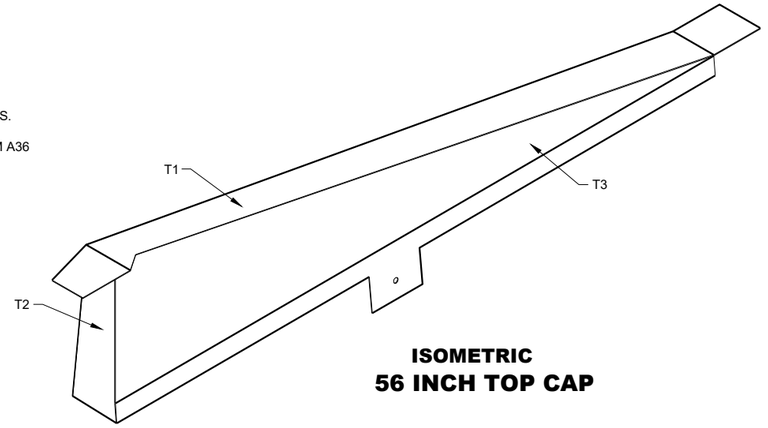
GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THRIE SIDES

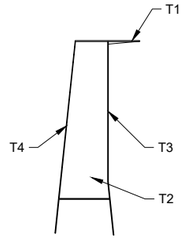
STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

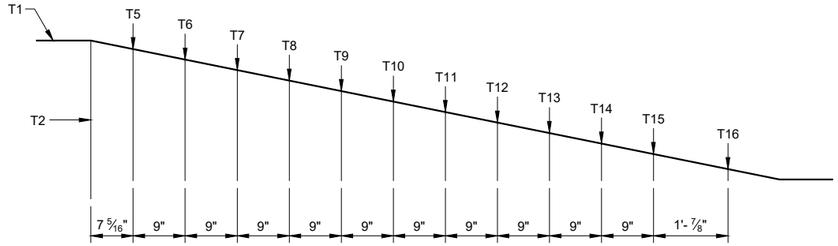
(700) SIDE PLATES (T3 AND T4) NOT SHOWN FOR CLARITY.



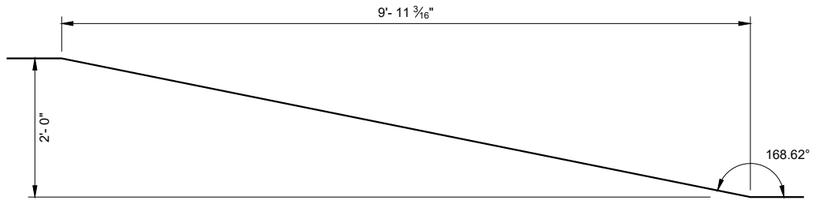
ISOMETRIC
56 INCH TOP CAP



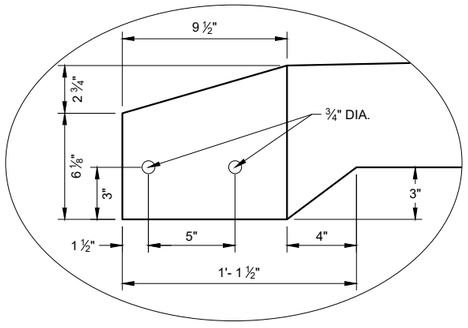
END VIEW
56 INCH TOP CAP



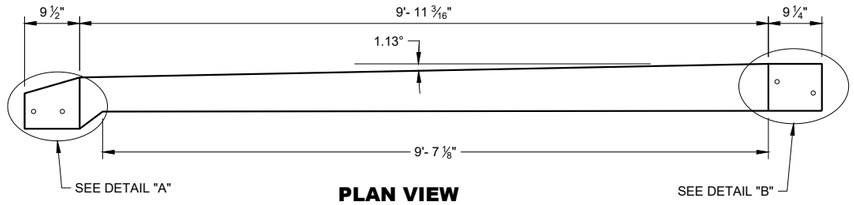
SIDE VIEW (700)
56 INCH TOP CAP



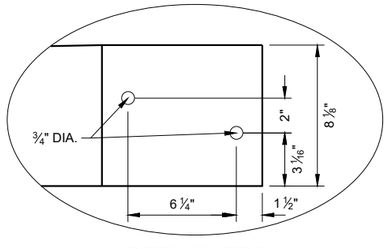
SIDE VIEW
TOP PLATE T1



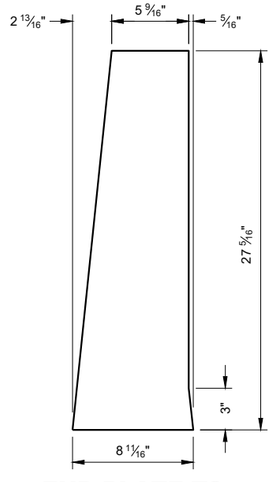
DETAIL "A"



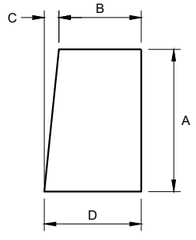
PLAN VIEW
TOP PLATE T1



DETAIL "B"



END PLATE T2



GUSSET PLATES
T5 - T16

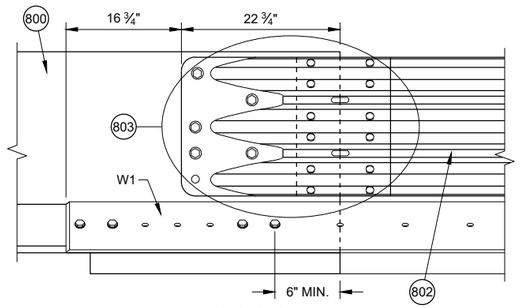
GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
T5	22 13/16"	5 1/16"	2 5/16"	8 1/16"
T6	21"	5 7/8"	2 3/16"	8 1/16"
T7	19 3/16"	6 1/16"	1 15/16"	8 1/16"
T8	17 3/8"	6 1/4"	1 13/16"	8 1/16"
T9	15 5/16"	6 7/16"	1 9/16"	8 1/16"
T10	13 3/4"	6 5/8"	1 7/16"	8 1/16"
T11	11 15/16"	6 13/16"	1 1/4"	8 1/16"
T12	10 1/8"	7"	1 1/16"	8 1/16"
T13	8 5/16"	7 3/16"	7/8"	8 1/16"
T14	6 1/2"	7 3/8"	1 1/16"	8 1/16"
T15	4 11/16"	7 9/16"	1/2"	8"
T16	2 7/8"	7 3/4"	1/4"	8"

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

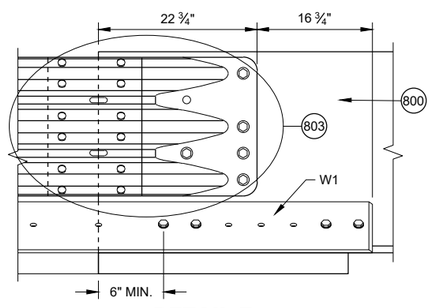
STATE OF WISCONSIN
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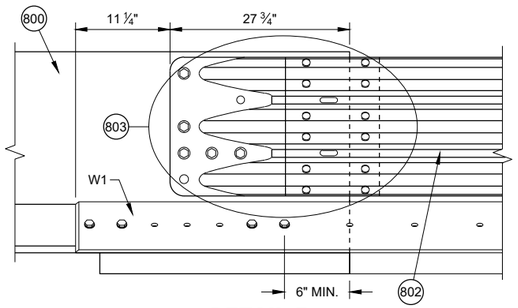
SDD 14B07-16g



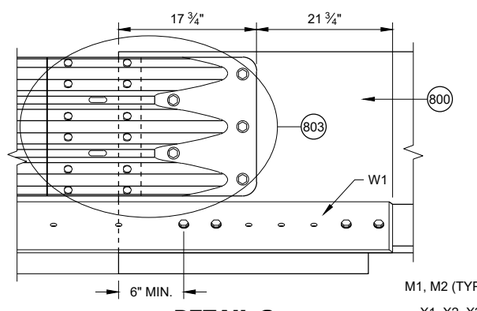
DETAIL D



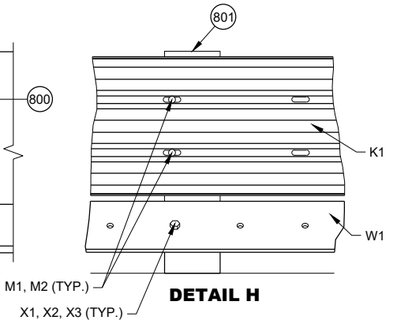
DETAIL E



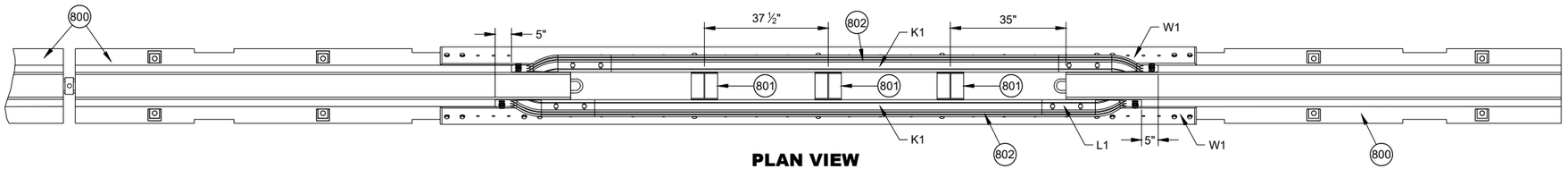
DETAIL F



DETAIL G



DETAIL H



PLAN VIEW

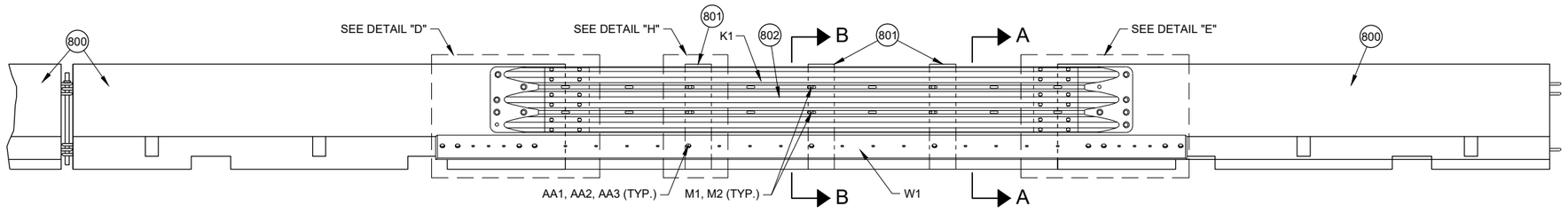
GENERAL NOTES

(800) FREE STANDING TEMPORARY BARRIER

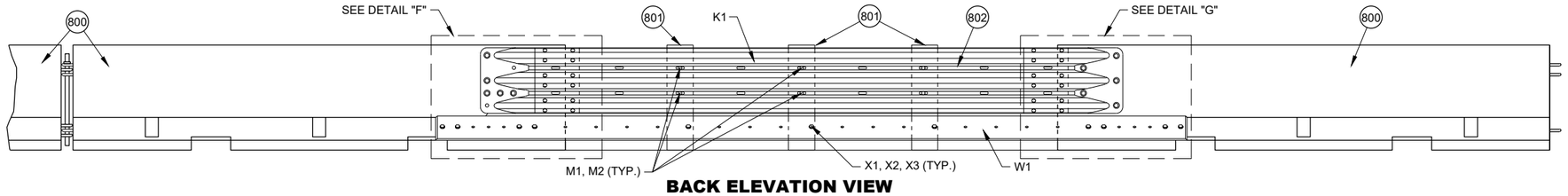
(801) GAP STIFFENER ASSEMBLY

(802) THRIE BEAMS ARE NESTED ON BOTH SIDES OF THE TEMPORARY BARRIER.

(803) SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL



FRONT ELEVATION VIEW



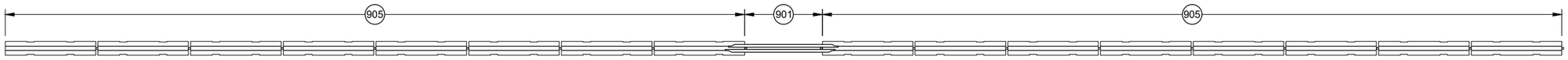
BACK ELEVATION VIEW

PORTABLE CONCRETE BARRIER GAP THRIE BEAM COVER

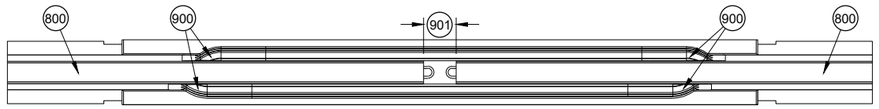
CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

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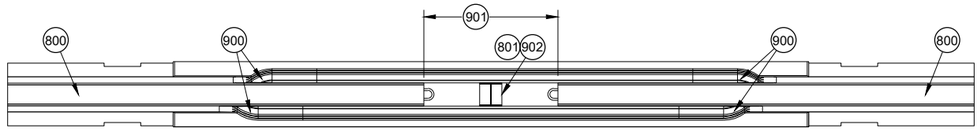
PLAN VIEW
GAP WITHIN SPACING



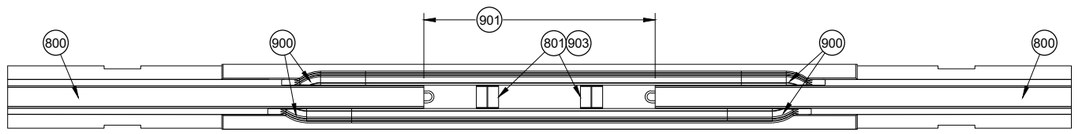
PLAN VIEW
TEMPORARY BARRIER GAP OVER 4" TO 1' MAX. (904)

GENERAL NOTES

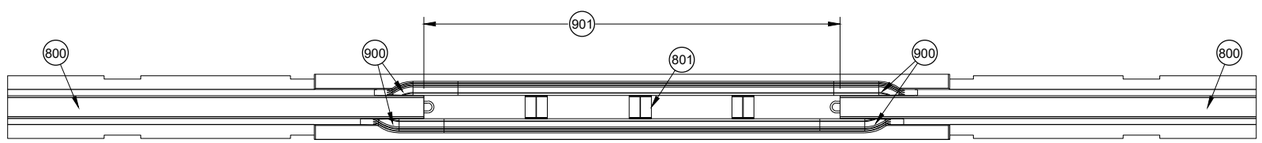
(900) SEE OTHER DETAILS FOR TEMPORARY GAP HARDWARE (TYP.)
(901) TEMPORARY BARRIER GAP
(902) GAP STIFFENER ASSEMBLY CENTERED IN THE GAP.
(903) GAP STIFFENER ASSEMBLY IS OFFSET 18 ¾" FROM CENTER
(904) MINIMUM NUMBER OF GAP STIFFENERS SHOWN FOR THE GAP RANGE SHOWN.
(905) MINIMUM OF 8 CONTINUOUS FREE STANDING TEMPORARY BARRIERS



PLAN VIEW
TEMPORARY BARRIER GAP OVER 1' TO 4' MAX. (904)



PLAN VIEW
TEMPORARY BARRIER GAP OVER 4' TO 7' MAX. (904)

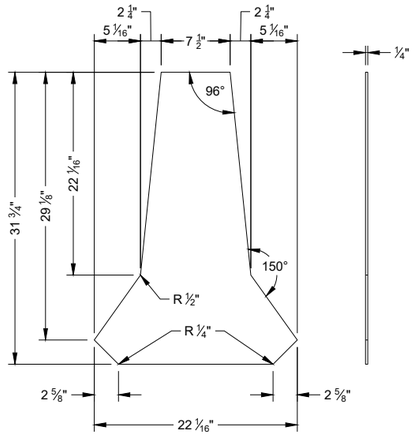


PLAN VIEW
TEMPORARY BARRIER GAP OVER 7' TO 12.5' MAX. (904)

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

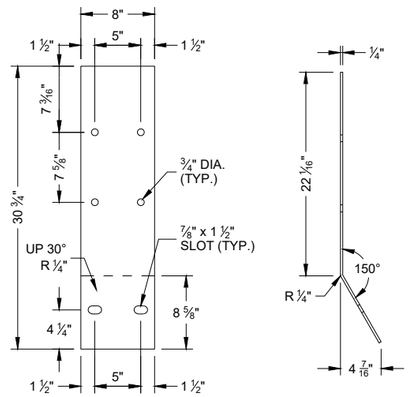
STATE OF WISCONSIN
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PROFILE VIEW SIDE VIEW

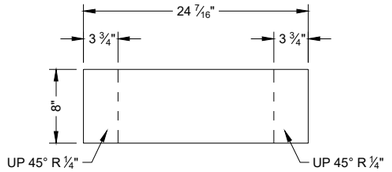
STIFFENER ASSEMBLY CENTER PANEL U1



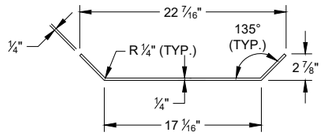
FLAT PATTERN

SIDE VIEW

STIFFENER ASSEMBLY SIDE PANEL U2

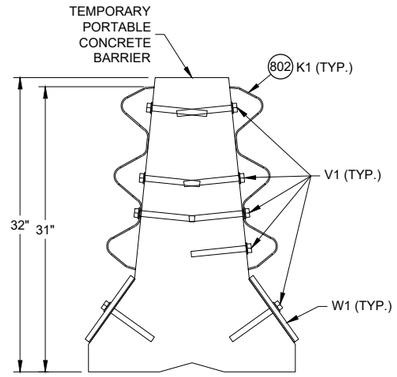


FLAT PATTERN

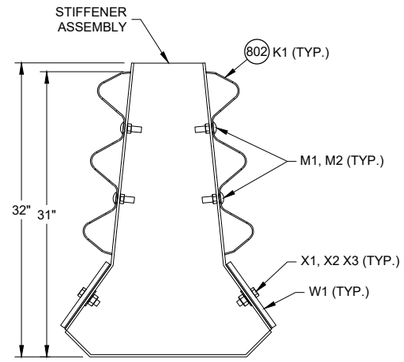


PROFILE VIEW

STIFFENER ASSEMBLY BOTTOM PANEL U3

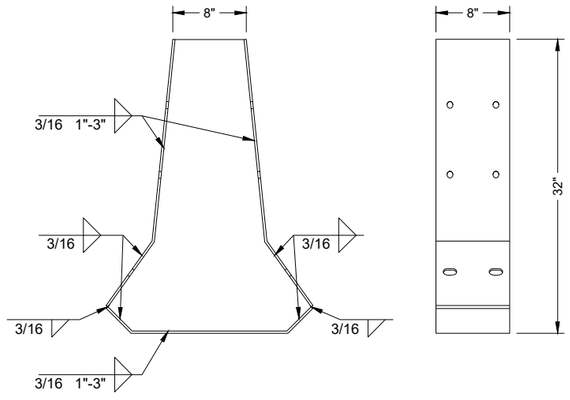


SECTION A - A



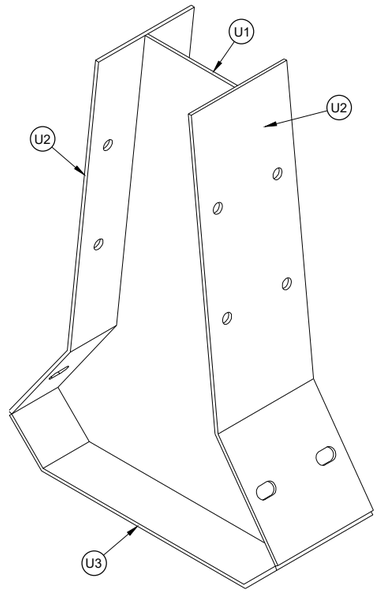
SECTION B - B

PLAN VIEW



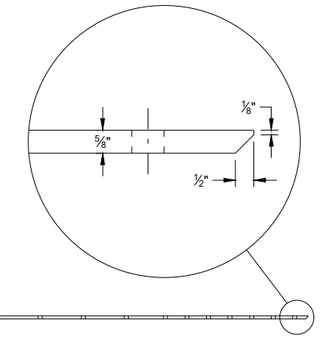
PROFILE VIEW

SIDE VIEW

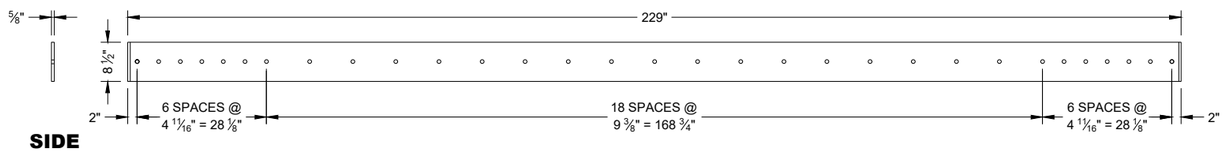


ISOMETRIC

GAP STIFFENER ASSEMBLY



PLAN VIEW



SIDE VIEW

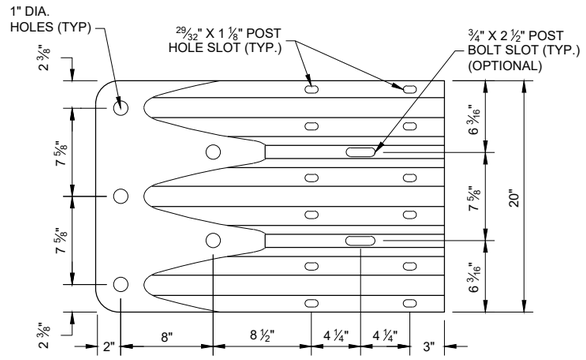
ELEVATION VIEW

W1 TOE PLATE

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

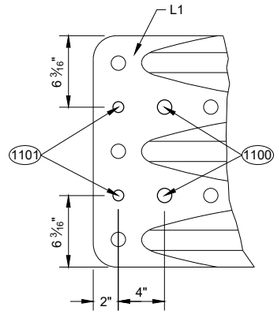
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ELEVATION VIEW

THRIE BEAM TERMINAL CONNECTOR



ELEVATION VIEW

ADDITIONAL THRIE BEAM (1102) TERMINAL CONNECTOR HOLE DETAIL

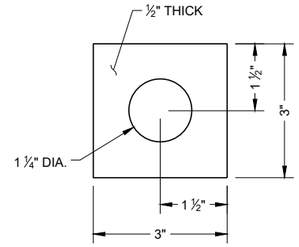


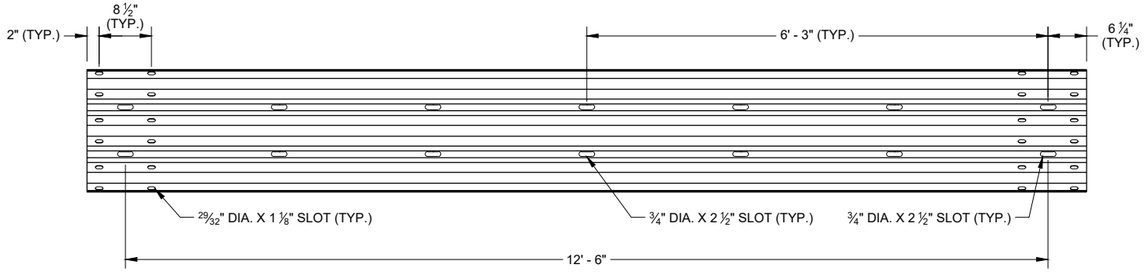
PLATE WASHER DETAIL G2, H3

GENERAL NOTES

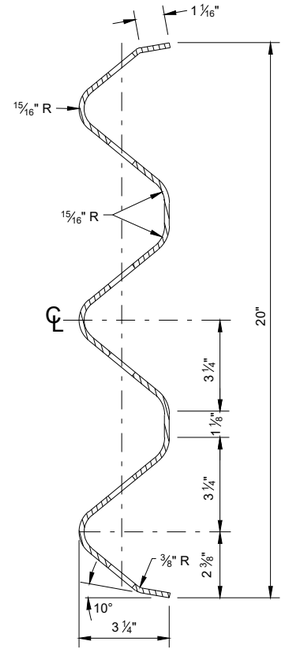
(1100) 1" DIA. HOLE

(1101) 3/4" DIA. HOLE

(1102) PROVIDE HOLES IN THRIE BEAM TERMINAL CONNECTOR TO LIMIT STEEL REINFORCEMENT OR LOOP BAR CONFLICT. CONTRACTOR MAY FIELD DRILL ADDITIONAL HOLE OR PROVIDE THRIE BEAM TERMINAL CONNECTOR WITH ADDITIONAL HOLES FROM SUPPLIER.



SLOTTED THRIE BEAM RAIL K1



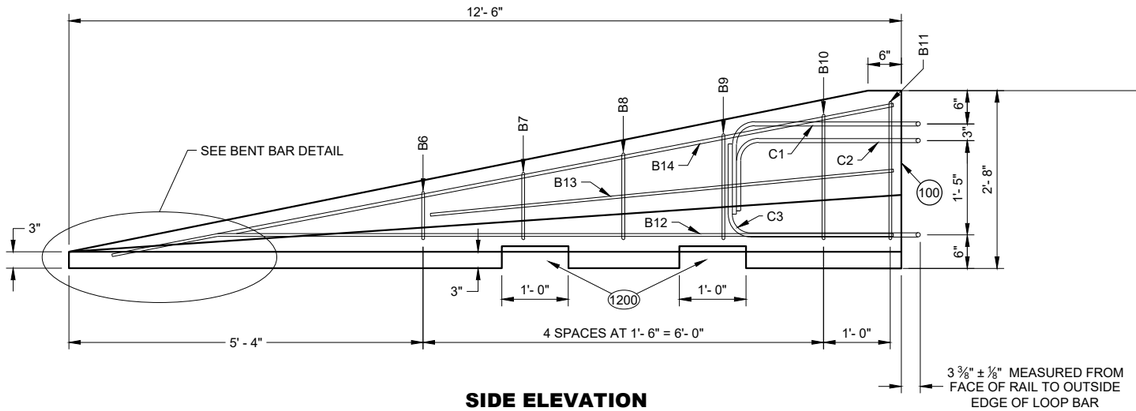
SECTION THROUGH BEAM K1

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

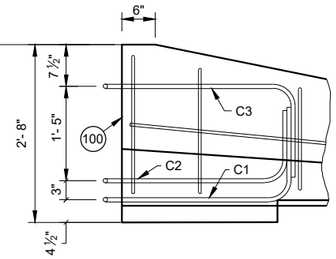
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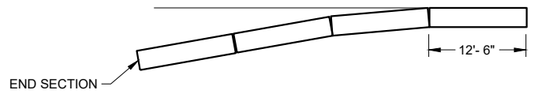
SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED FOR OPPOSITE END
(FOR CONNECTION TO RIGHT END OF BARRIER)

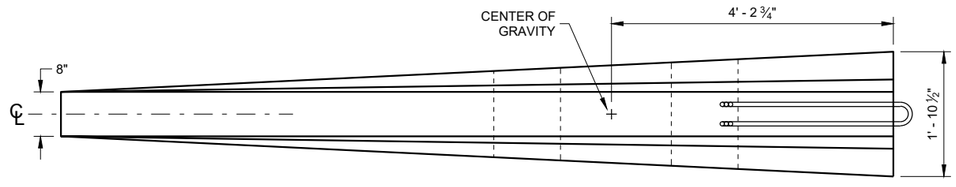
GENERAL NOTES

(1200) SEE LIFTING SLOT DETAIL. LOCATION OF LIFTING SLOTS DETERMINED BY CONTRACTOR.

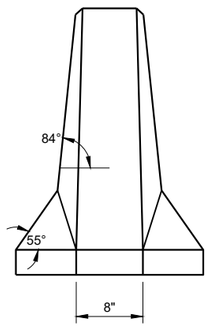


FLARE AT BARRIER END

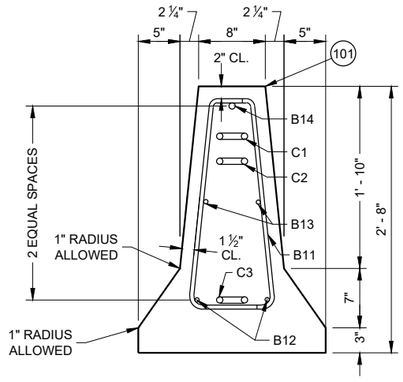
POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1



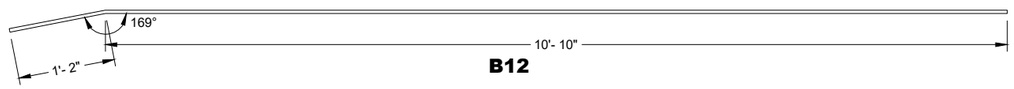
PLAN VIEW



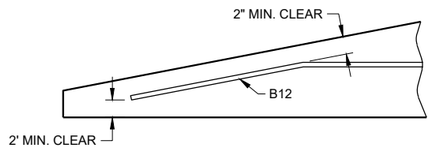
FRONT ELEVATION



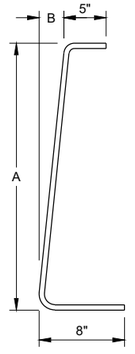
END SECTION



B12



BENT BAR DETAIL



BAR	A	B
B6	10"	1"
B7	1'- 1"	1 ¼"
B8	1'- 5"	1 ⅝"
B9	1'- 8"	1 ⅞"
B10	2'- 0 ½"	2 ⅜"
B11	2'- 3"	2 ¾"

B BARS
2 OF EACH SIZE REQUIRED FOR STIRRUP ASSEMBLY

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

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BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	PRECAST TEMPORARY BARRIER - CONCRETE	MIN. = f'c 5000 PSI	
B1	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B2	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-2"
B3	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B4	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 6'-0"
B5	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#6 REBAR, LENGTH 2'-11"
B6	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 1'-11"
B7	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-2"
B8	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-6"
B9	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-9"
B10	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-2"
B11	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-4"
B12	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-0"
B13	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 7'-9"
B14	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 11'-9"
C1	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C2	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C3	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
D1	CONNECTION PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ¼" DIA.
D2	CONNECTION PIN - TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G1	BOLT THROUGH ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A OR SAE J429 GRADE 2 UNC	1 ⅛" DIA.
G2	BOLT THROUGH ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G3	BOLT THROUGH ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
H1	ADHESIVE ANCHOR - ADHESIVE	ICC-ES-AC308 5 ¼" EMBEDMENT WITH A MIN. BOND STRENGTH OF 1,650 PSI. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
H2	ADHESIVE ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A / SAE J429 GRADE 2 UNC	1 ⅛" DIA.
H3	ADHESIVE ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
H4	ADHESIVE ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
J1	ASPHALT ANCHOR PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ½" DIA.
J2	ASPHALT ANCHOR PIN - STOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
K1	THRIE BEAM RAIL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE
L1	THRIE BEAM RAIL - TERMINAL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
M1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	⅝" DIA.
M2	SPLICE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
N1	THRIE BEAM RAIL TERMINAL - MECHANICAL ANCHOR	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA. LENGTH 6"
N2	THRIE BEAM RAIL TERMINAL - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
N3	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
P1	THRIE BEAM RAIL CONNECTION 1-BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA.
P2	THRIE BEAM RAIL CONNECTION 1-WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
P3	THRIE BEAM RAIL CONNETION 1- MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
Q1	BLOCK WOOD	SEE STANDARD SPEC. 614	
R1	CAP - BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	⅝" DIA.
R2	CAP- BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
R3	CAP - BOLT - MECHANICAL ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	12 GAUGE
S1	CAP 42-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S2	CAP 42-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S3	CAP 42-INCH SIDE PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S4	CAP 42-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S5	CAP 42-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S6	CAP 42-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S7	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE

6

SDD 14B07-16m

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B07-16m

BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
T1	CAP 56-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T2	CAP 56-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T3	CAP 56-INCH SIDE PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T4	CAP 56-INCH SIDE PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T5	CAP 56-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T6	CAP 56-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T7	CAP 56-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T8	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T9	CAP 42-INCH GUSSET 5	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T10	CAP 42-INCH GUSSET 6	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T11	CAP 42-INCH GUSSET 7	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T12	CAP 42-INCH GUSSET 8	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T13	CAP 42-INCH GUSSET 9	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T14	CAP 42-INCH GUSSET 10	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T15	CAP 42-INCH GUSSET 11	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T16	CAP 42-INCH GUSSET 12	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
U1	GAP STIFFENER	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U2	GAP STIFFENER - CONNECTOR PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U3	GAP STIFFENER - CONNECTOR PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
V1	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 24.0 KIPS AND ULTIMATE SHEAR LOAD 21.5 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	¾" DIA.
V2	GAP STIFFENER - BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C O R MECHANICAL GALVANIZE TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
W1	TOE PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
X1	TOE PLATE - CONNECTION BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC HEAVY HEX HEAD OR AASTHO M180 HEAD, ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED. PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	¾" DIA.
X2	TOE PLATE - CONNECTION BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1 (HARDEN WASHER ONLY)	
X3	TOE PLATE - CONNECTION BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	

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SDD 14B07-16n

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 14B07-16n

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

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

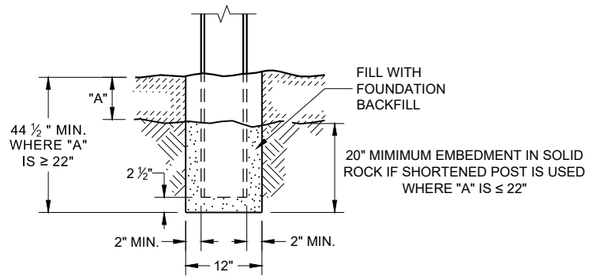
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

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

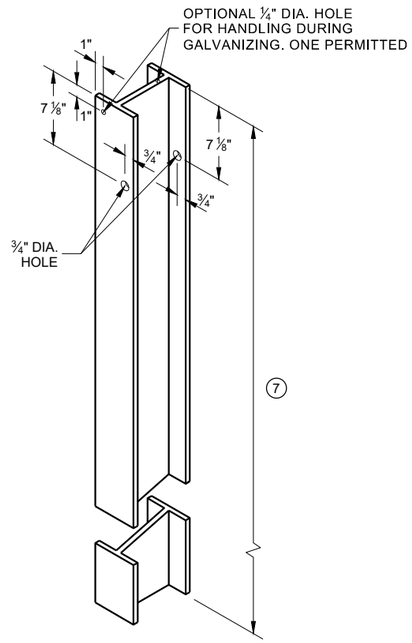
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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

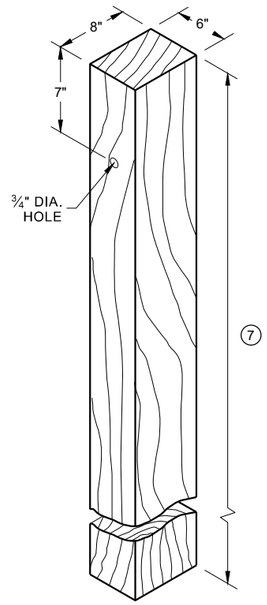
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



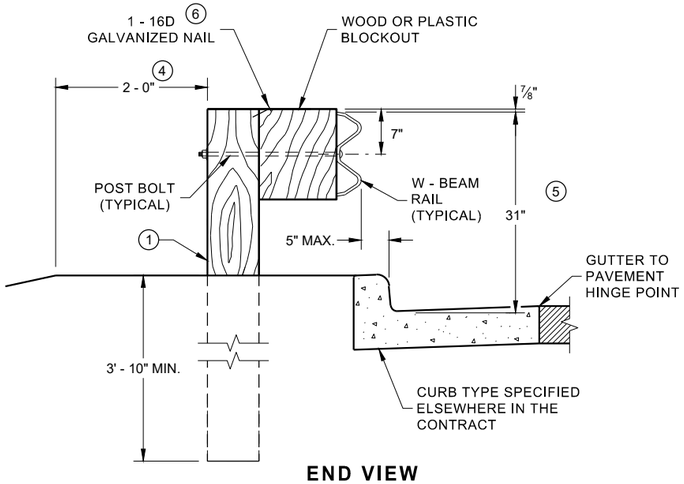
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



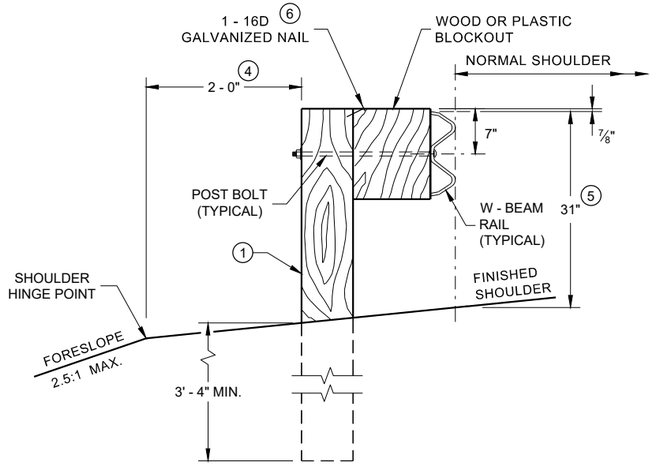
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



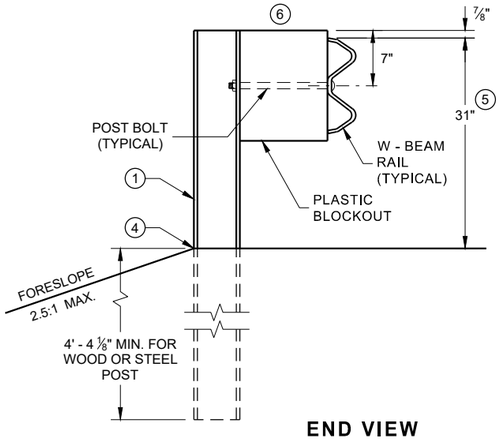
WOOD POST (6" X 8") NOMINAL (1)



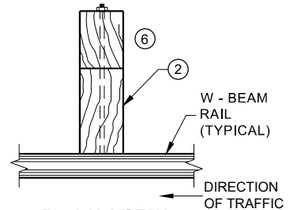
END VIEW
LOCATED ALONG A CURBED ROADWAY



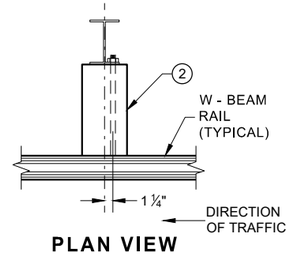
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



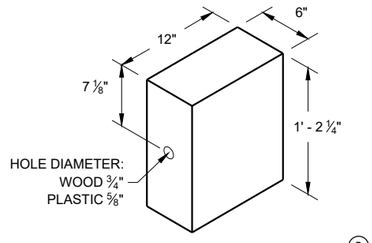
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

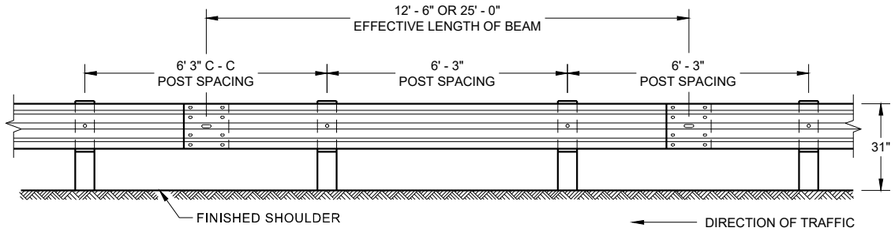
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

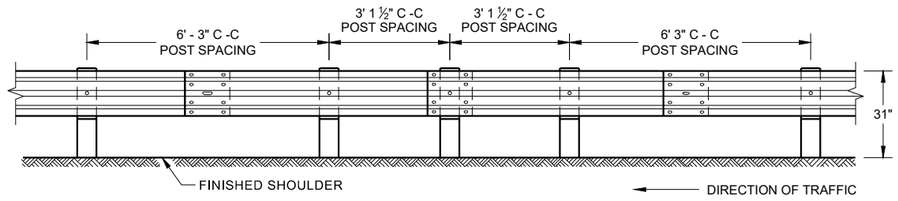
SDD 14B42 - 07a

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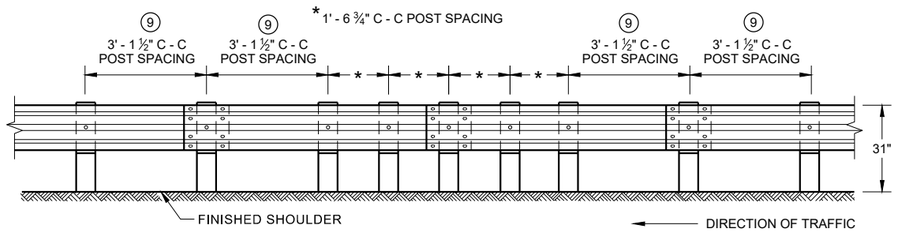
SDD 14B42 - 07a



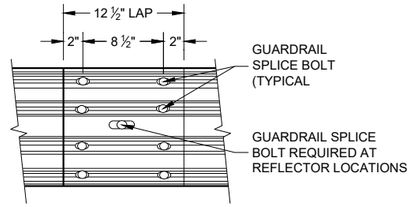
FRONT VIEW
POST SPACING STANDARD INSTALLATION



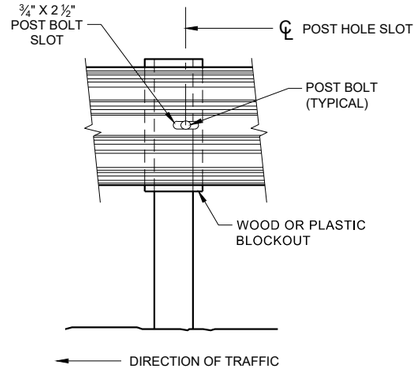
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



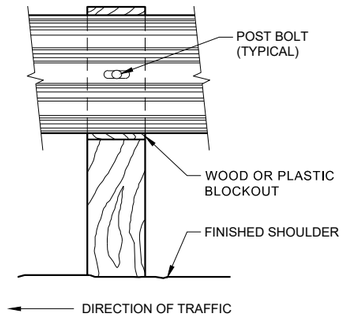
FRONT VIEW
QUARTER POST SPACING (QS)



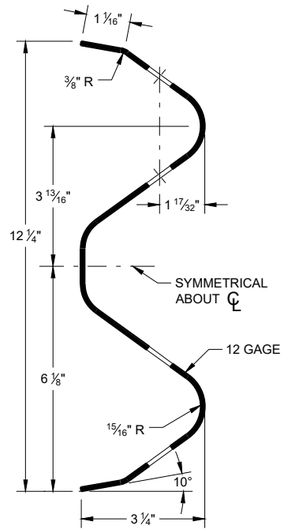
FRONT VIEW
MID-SPAN BEAM SPLICE



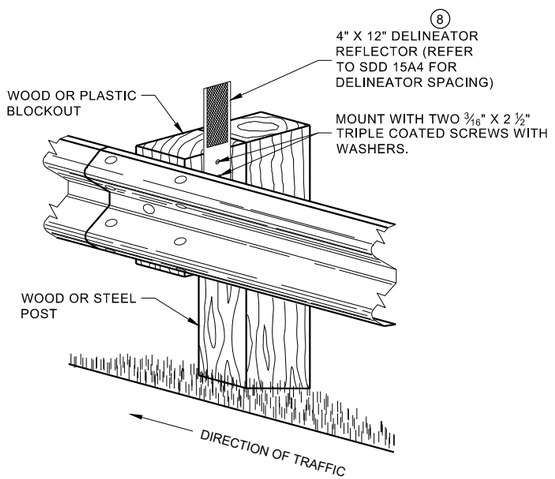
FRONT VIEW AT STEEL POST



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.

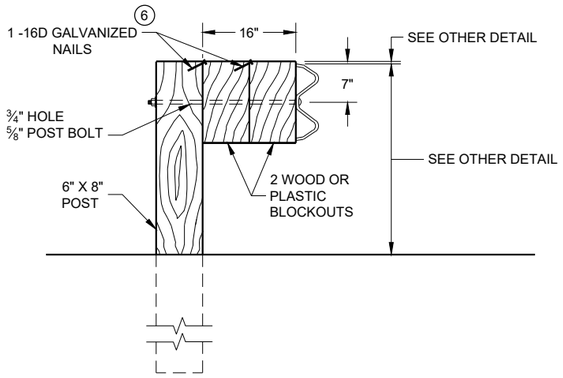
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

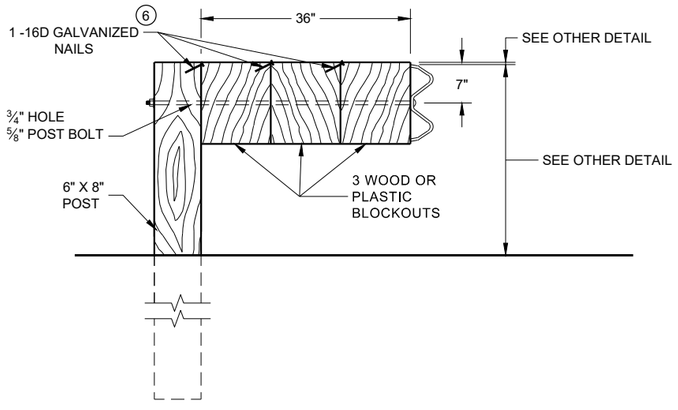
6

SDD 14B42 - 07b



DETAIL FOR 16" BLOCKOUT DEPTH

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



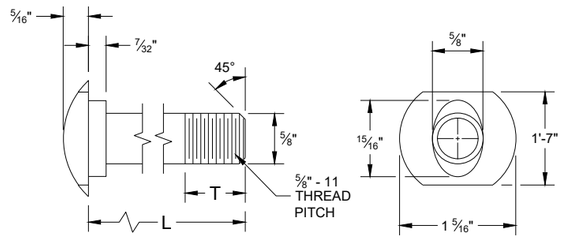
DETAIL FOR 36" BLOCKOUT DEPTH

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.

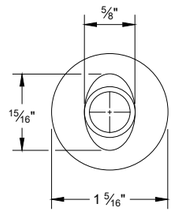
NOTE:

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.

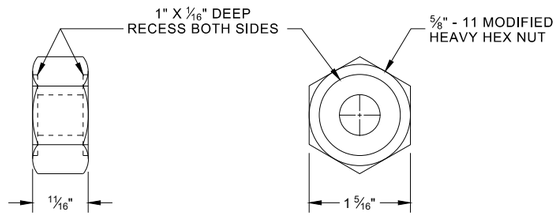


POST BOLT TABLE

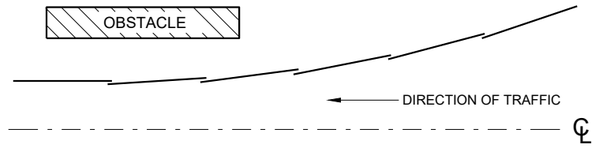
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

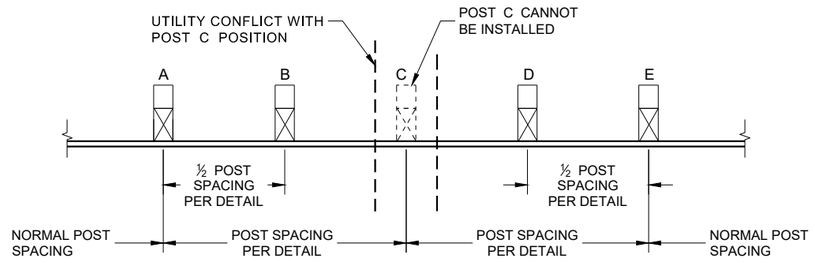


POST BOLT, SPLICE BOLT AND RECESS NUT

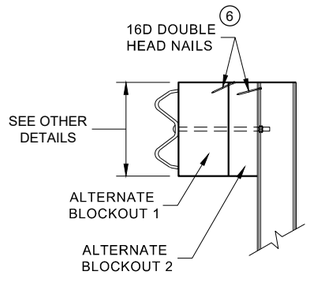


PLAN VIEW

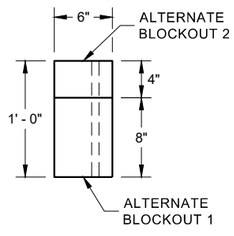
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW

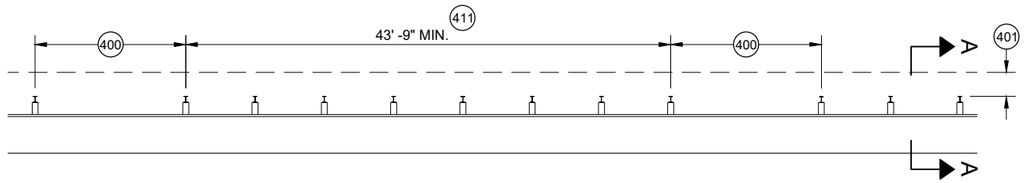


PLAN VIEW

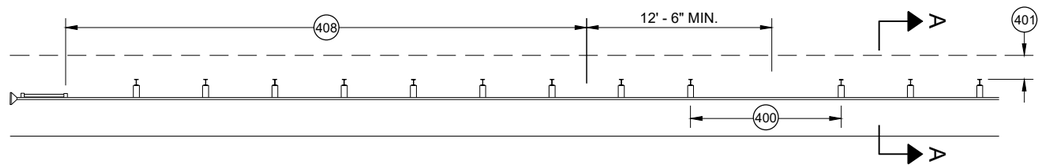
ALTERNATE WOOD BLOCKOUT DETAIL

(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.

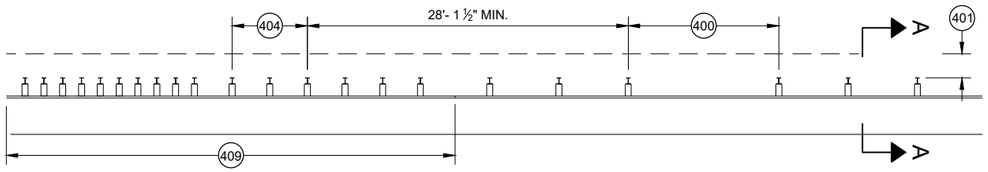
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL



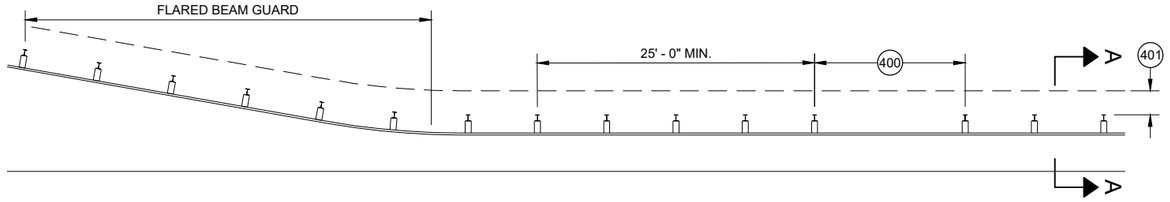
MISSING POST IN MGS GUARDRAIL



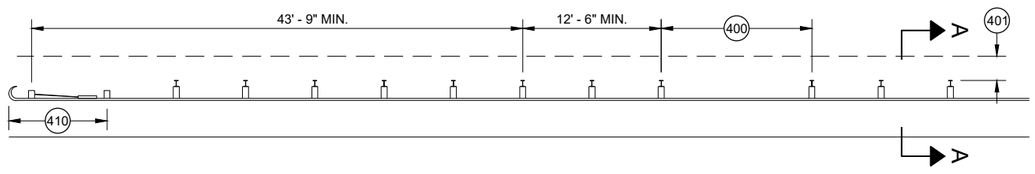
MISSING POST IN MGS GUARDRAIL NEAR EAT



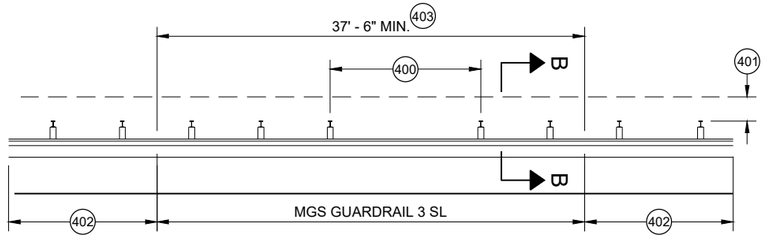
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

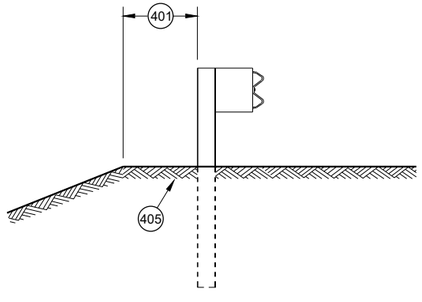


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

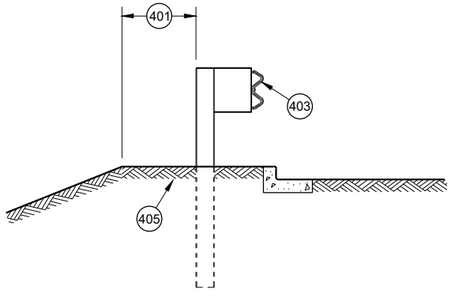


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(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

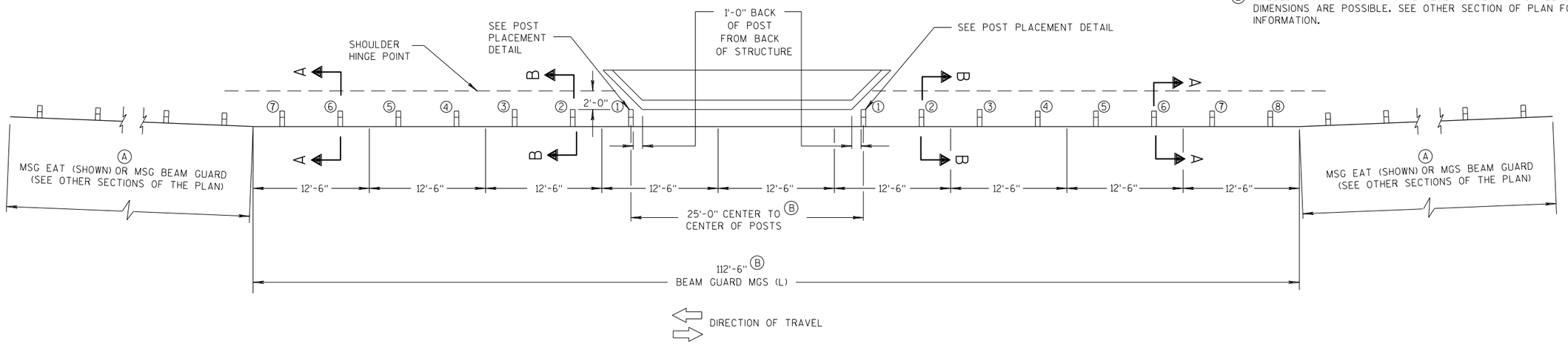
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

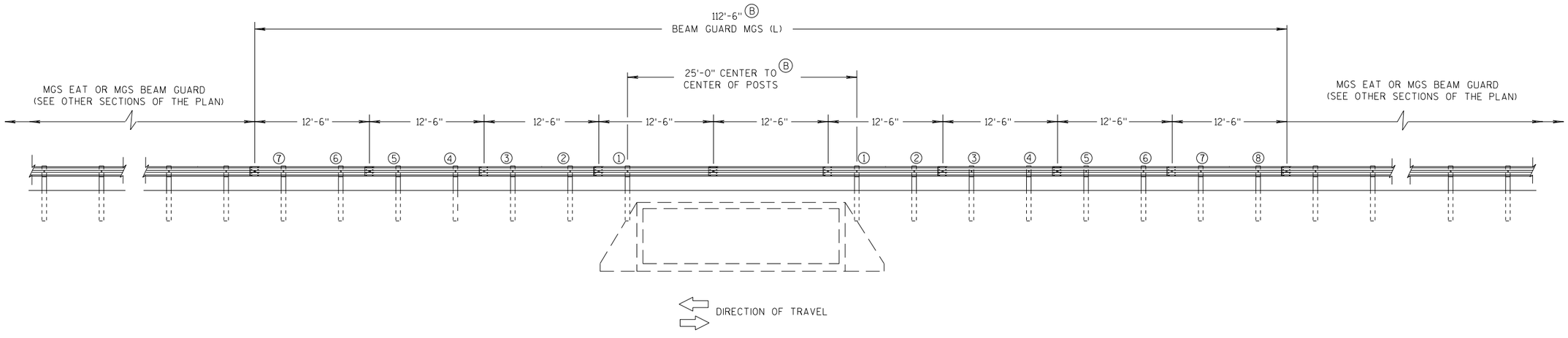
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 43-4a

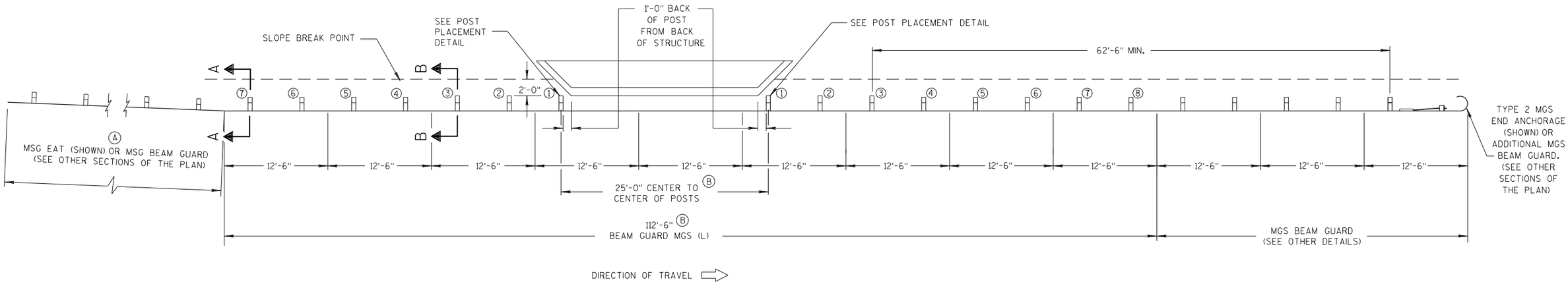
GENERAL NOTES

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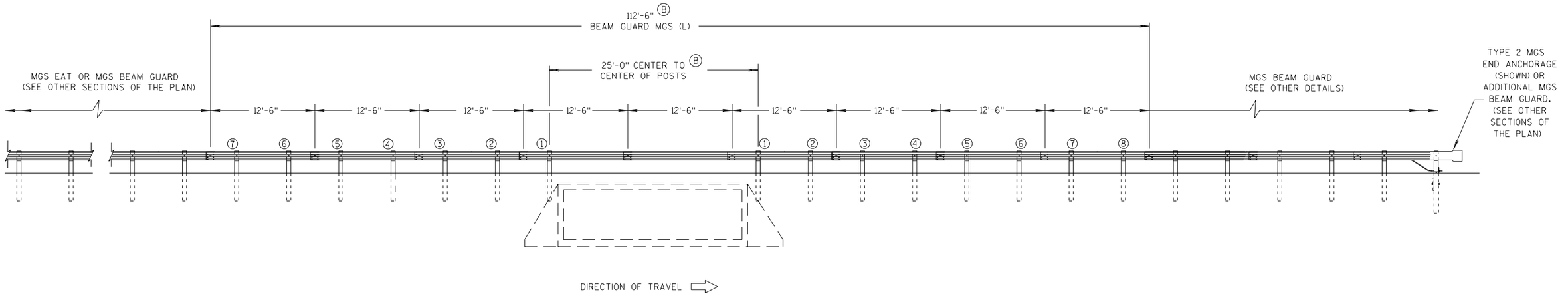
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

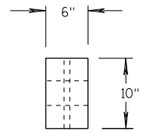
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	215

6

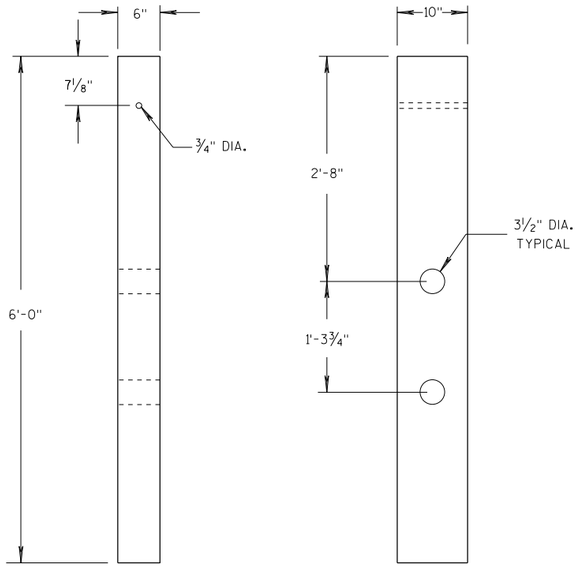
S.D.D. 14 B 43-4b

6

S.D.D. 14 B 43-4b

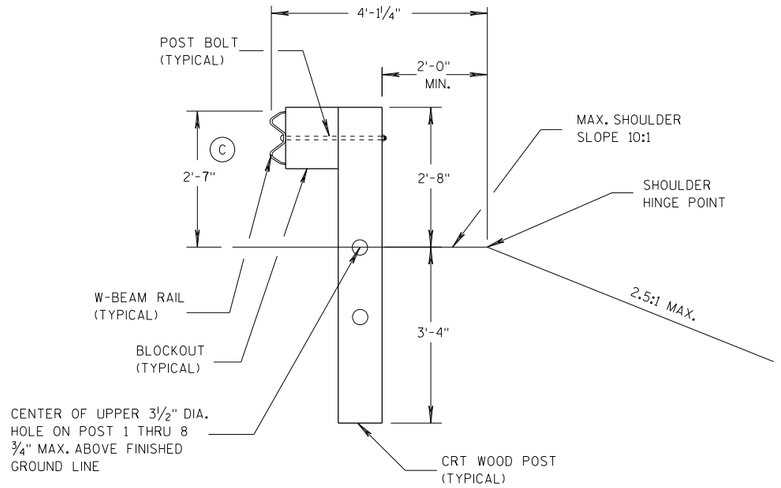


PLAN VIEW



FRONT VIEW SIDE VIEW

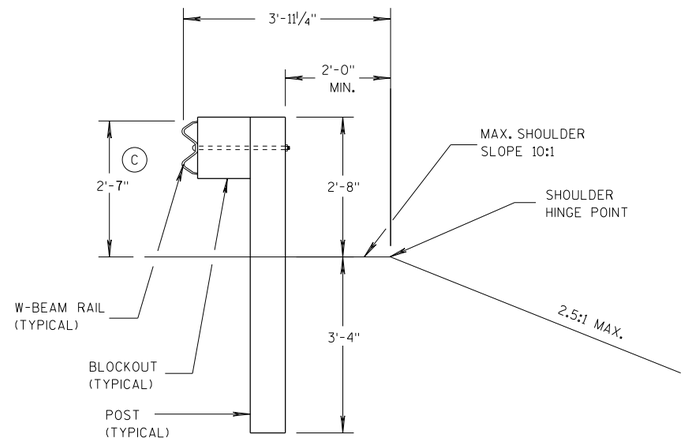
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



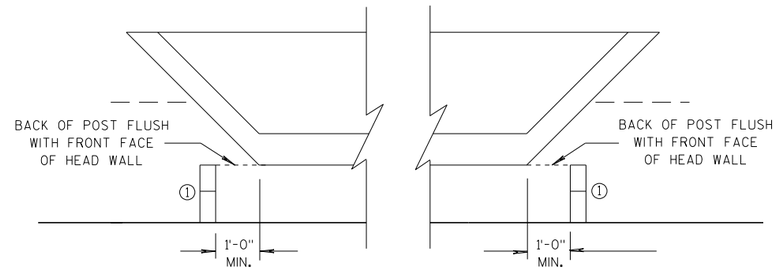
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

(C) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DIRECTOR
ENGINEER

D 216 NT

6

S.D.D. 14 B 43-4c

6

S.D.D. 14 B 43-4c

GENERAL NOTES

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

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

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

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

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

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

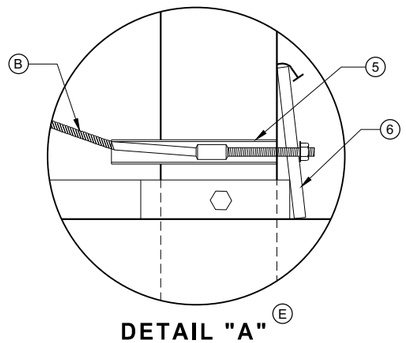
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

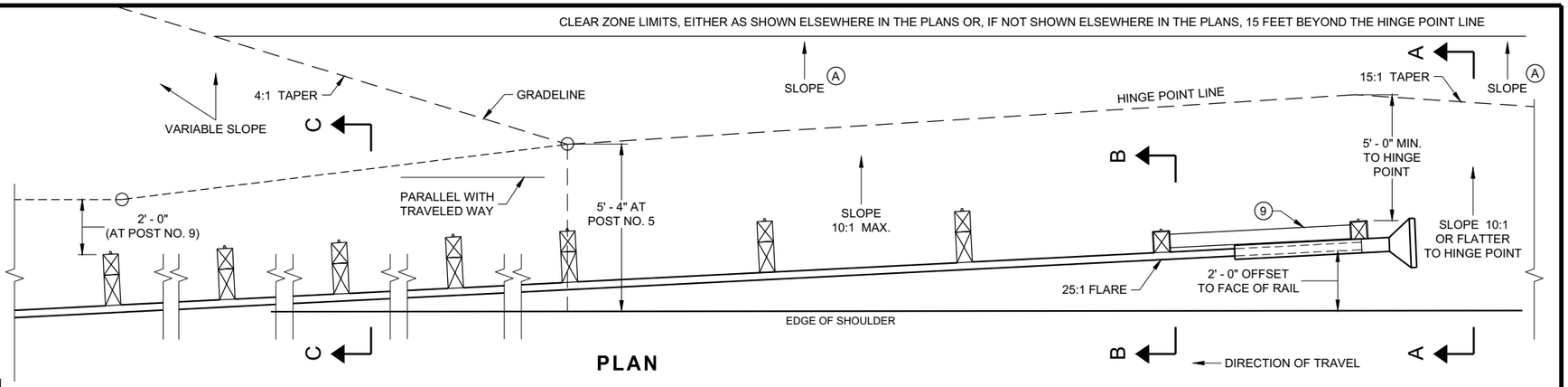
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

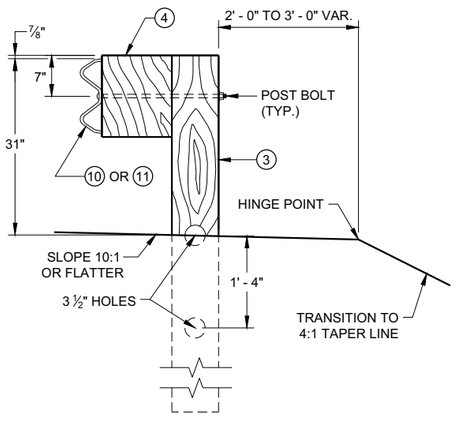
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

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

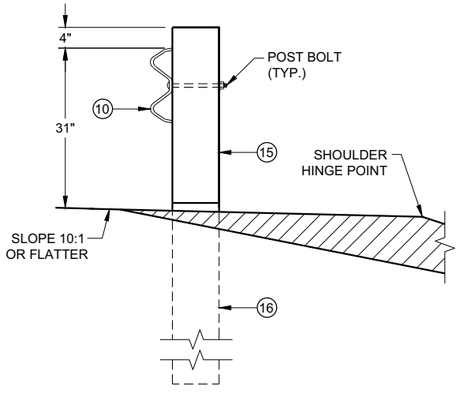


DETAIL "A" (E)

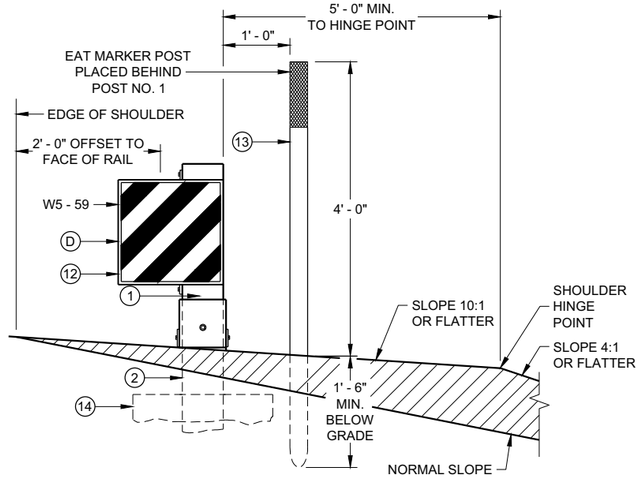




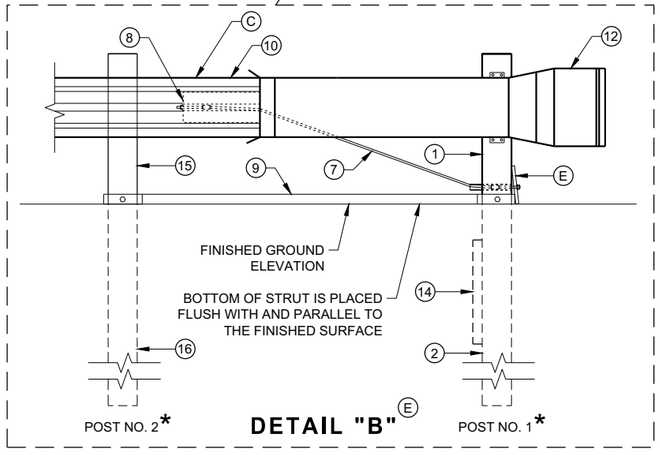
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



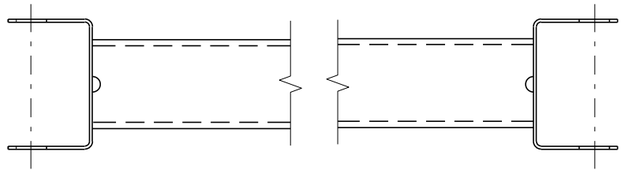
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

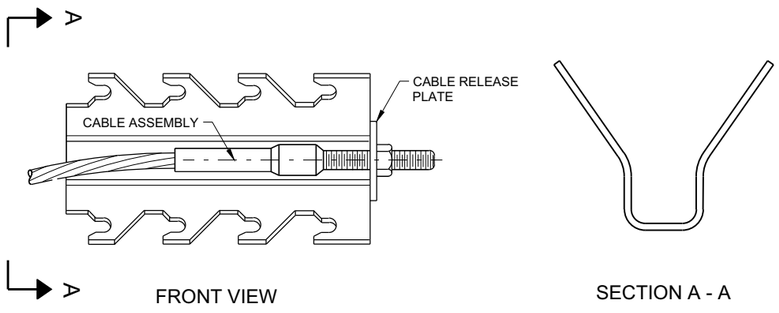
SDD 14B44 - 04a



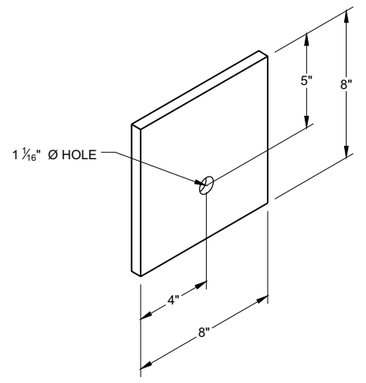
GENERIC GROUND STRUT ⑨ Ⓔ

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 ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

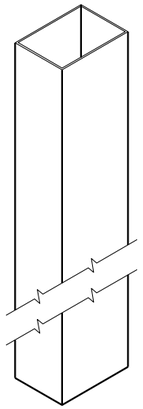
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SDD 14B44 - 04b

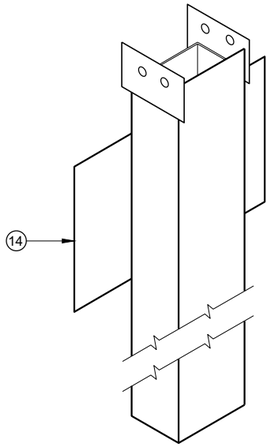
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

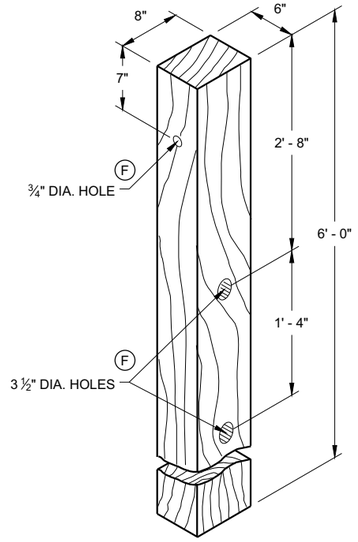
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



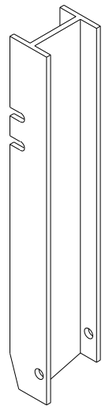
UPPER POST NO. 1 (1) (E)



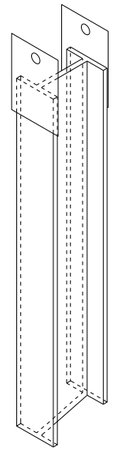
LOWER POST NO. 1 (2) (E)



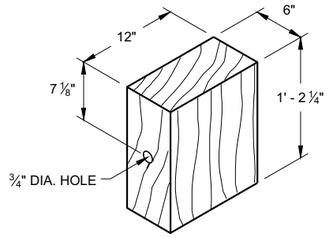
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



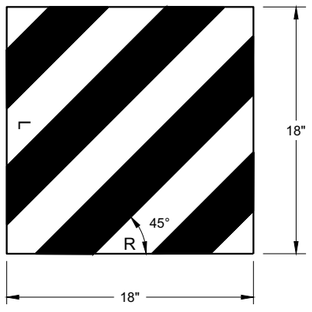
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

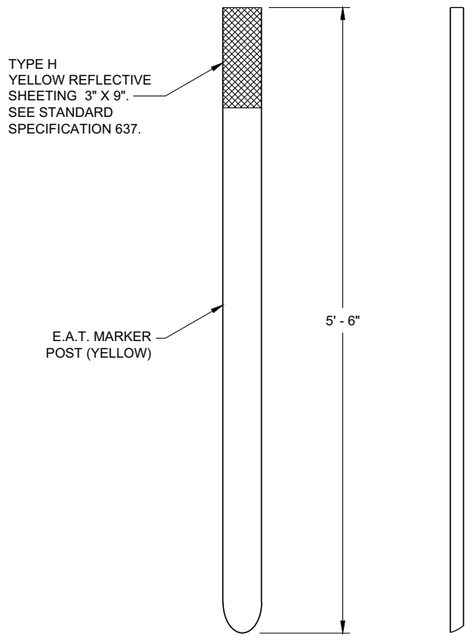


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



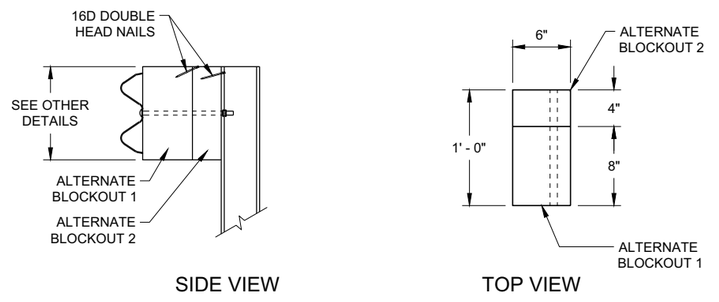
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

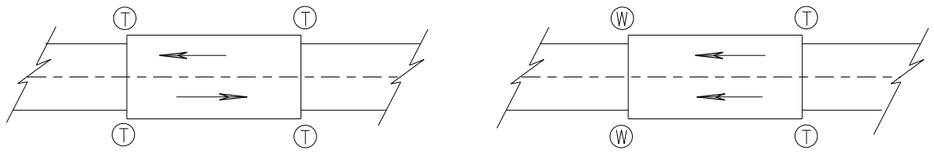
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

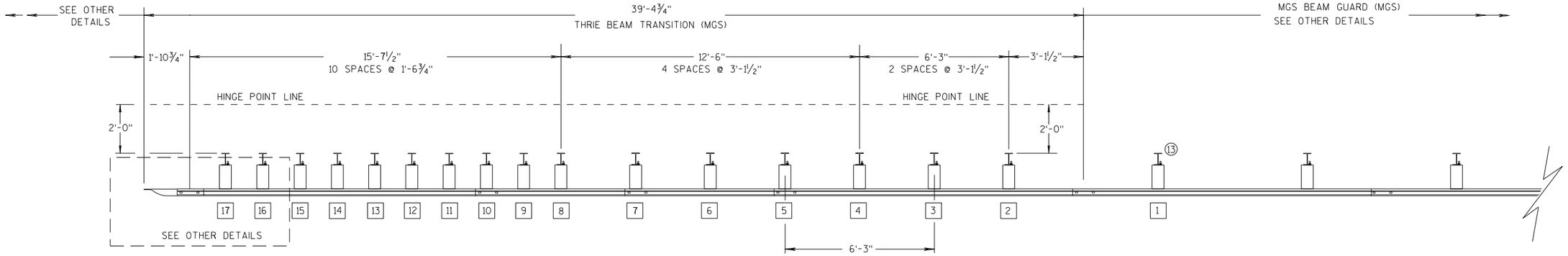
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

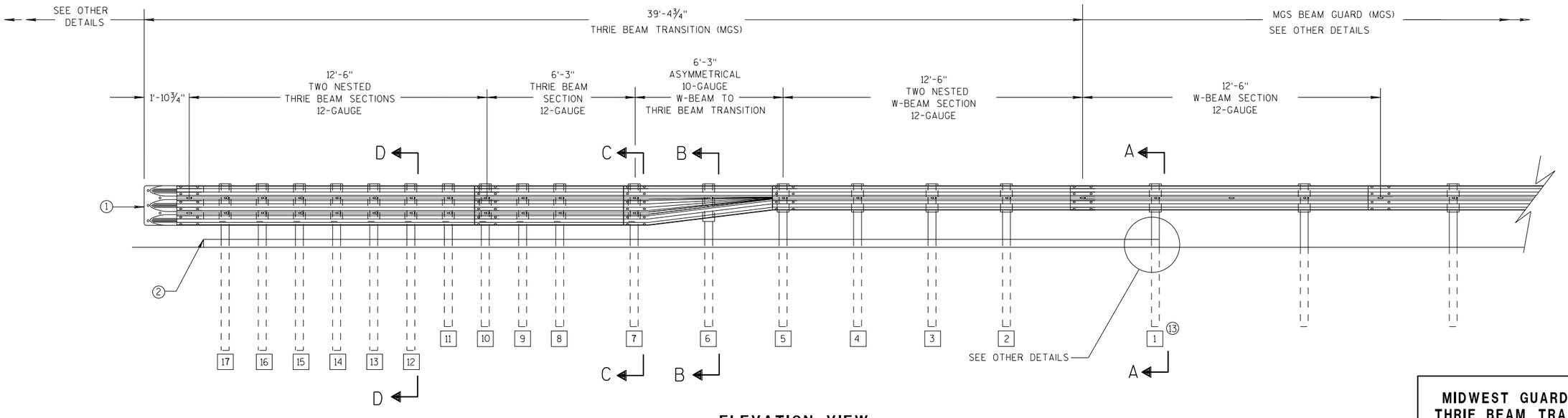
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 220

6

S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

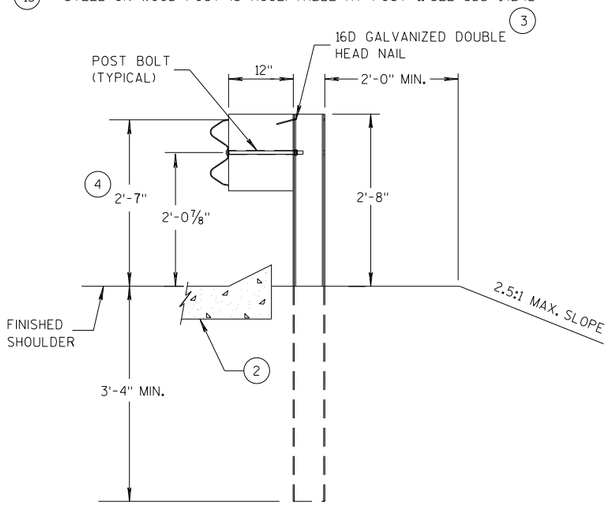
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

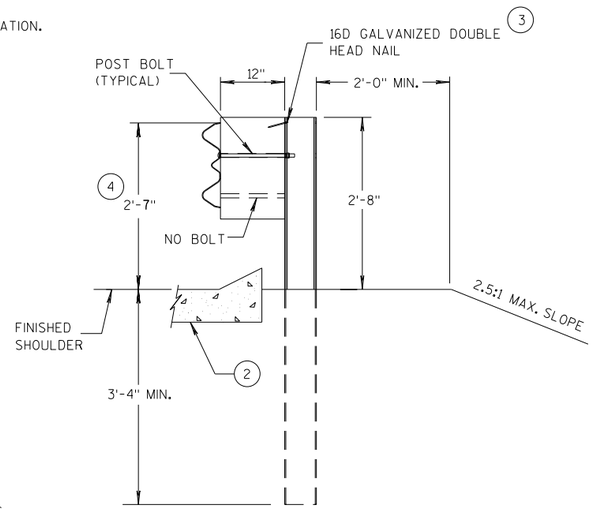
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



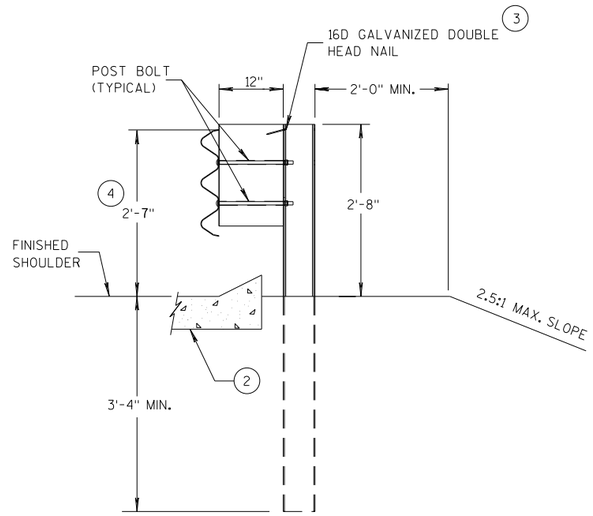
SECTION A-A (13)

POSTS 1-5



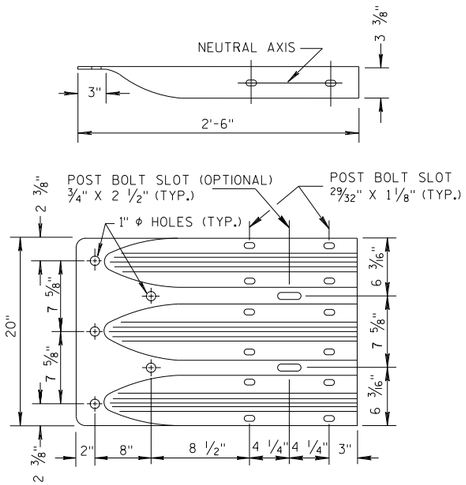
SECTION B-B

POST 6

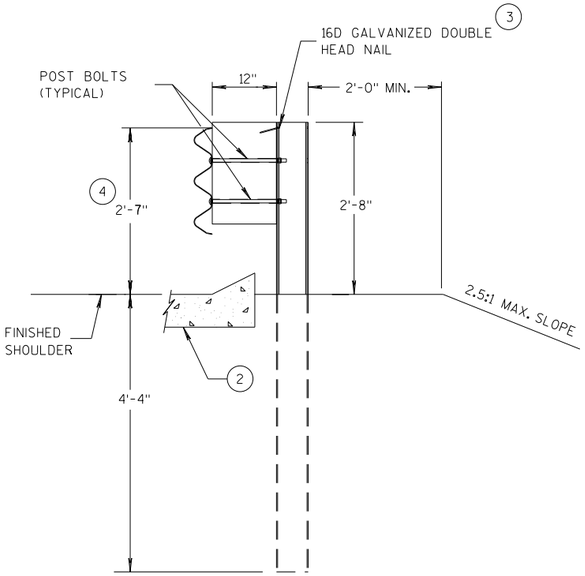


SECTION C-C

POSTS 7-11

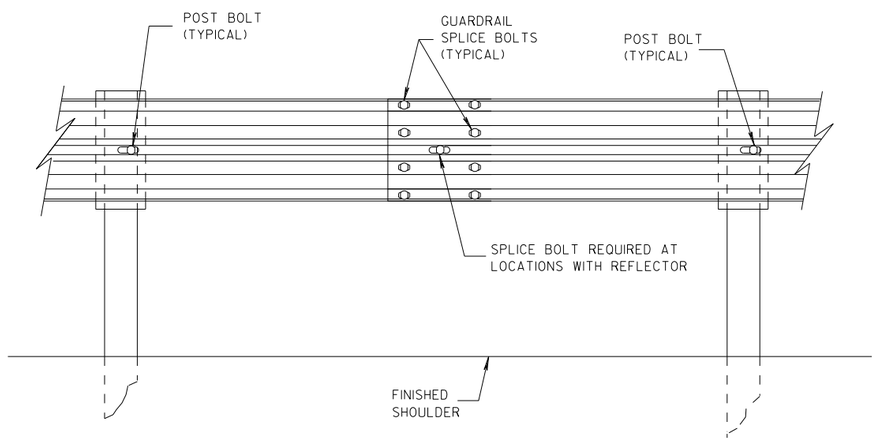


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

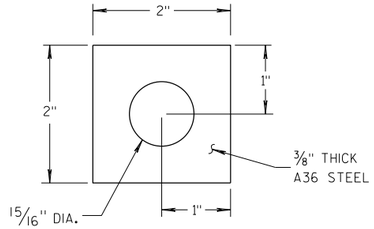
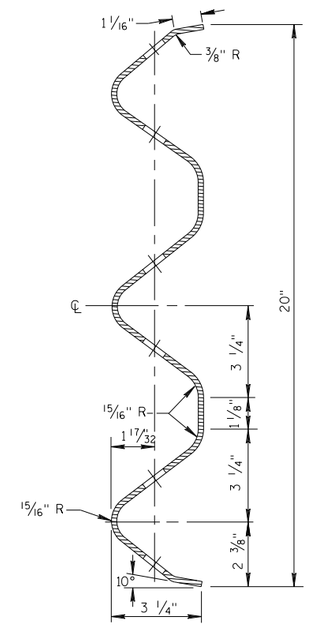


PLATE WASHER DETAIL



SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

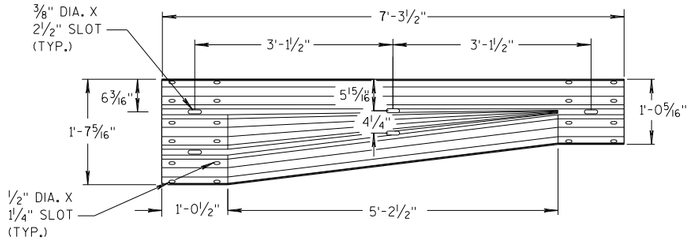
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 221

6

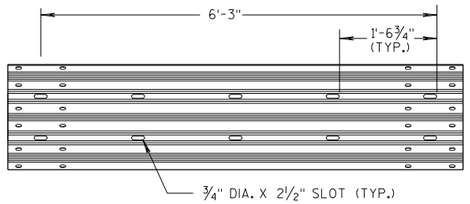
S.D.D. 14 B 45-5b

6

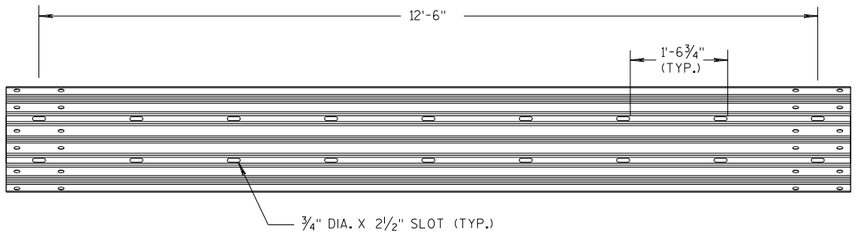
S.D.D. 14 B 45-5b



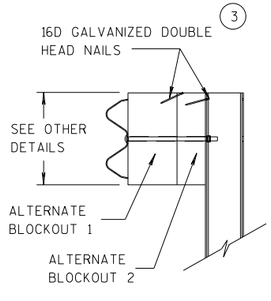
W-BEAM TO THRIE BEAM TRANSITION SECTION



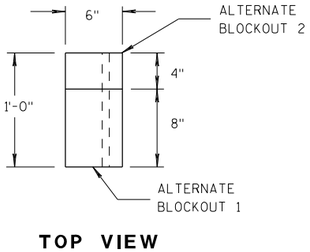
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

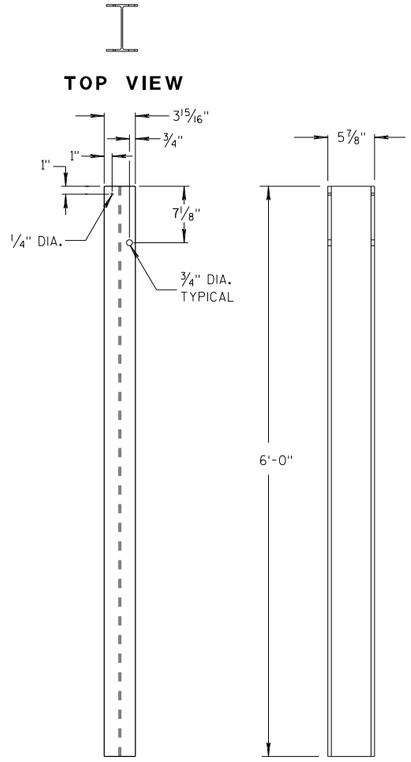


SIDE VIEW



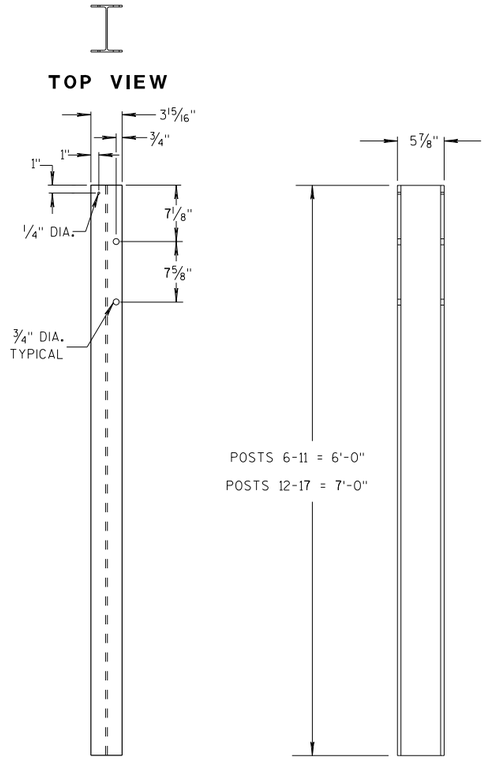
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



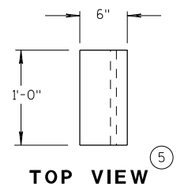
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

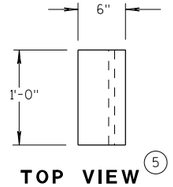


FRONT VIEW SIDE VIEW

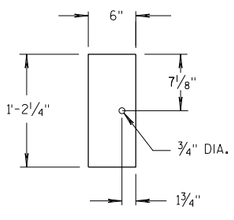
STEEL POSTS 6-17



TOP VIEW (5)

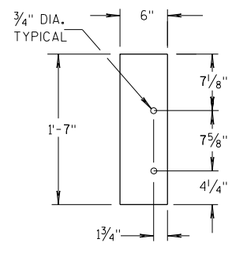


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

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

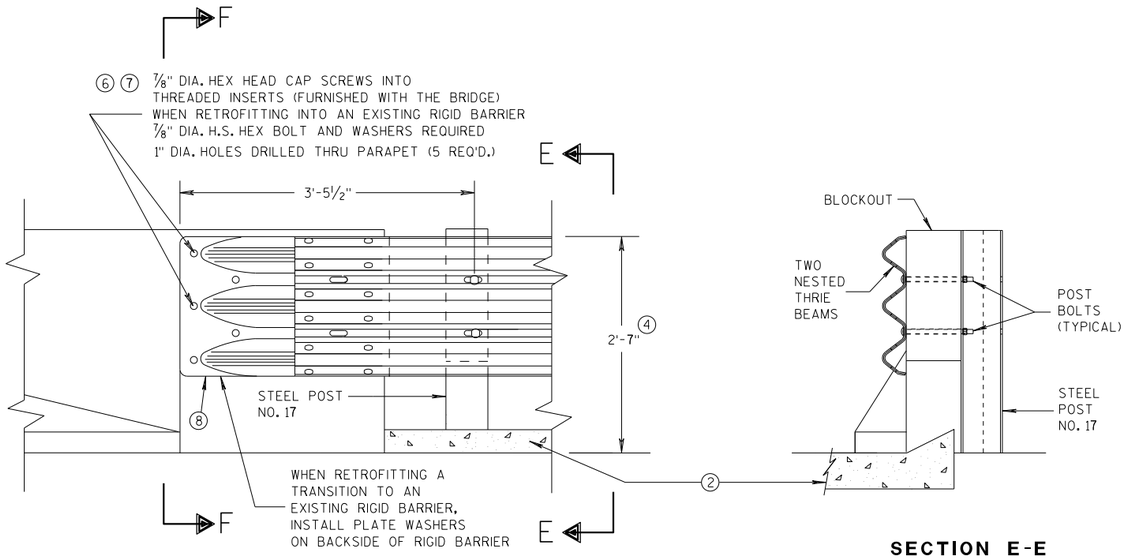
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 222

6
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

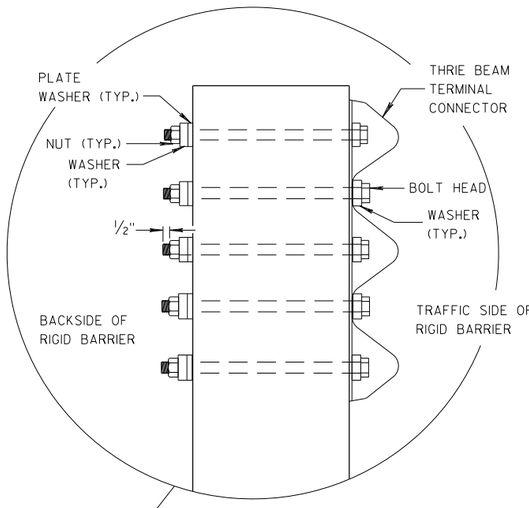
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

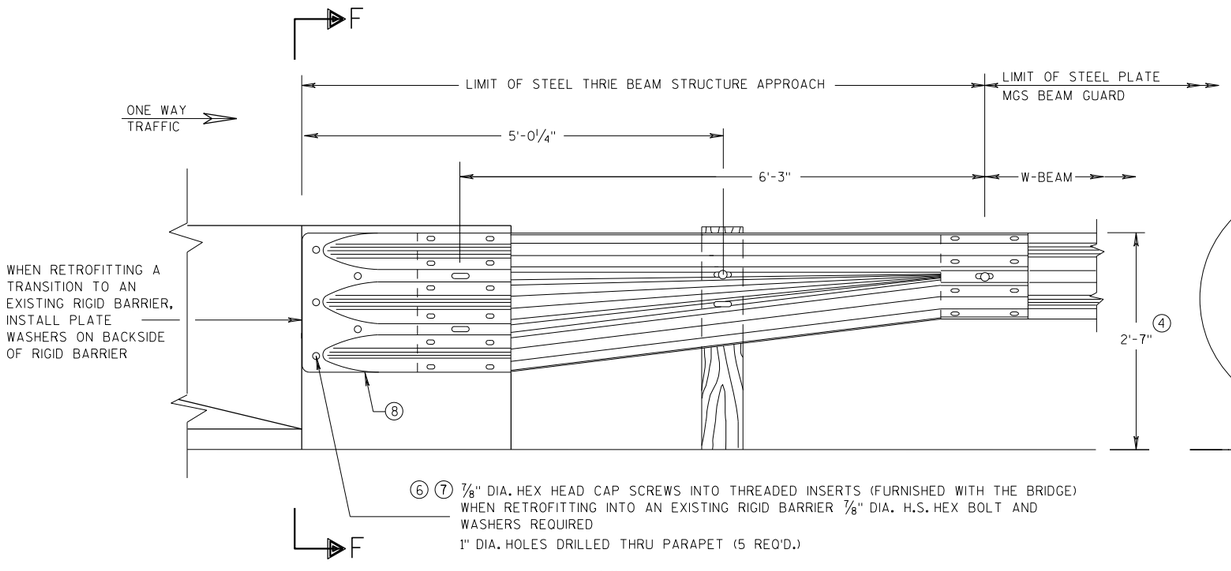
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

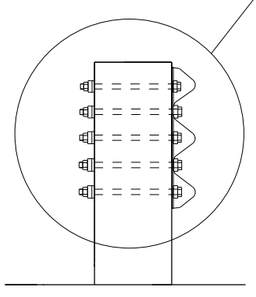
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

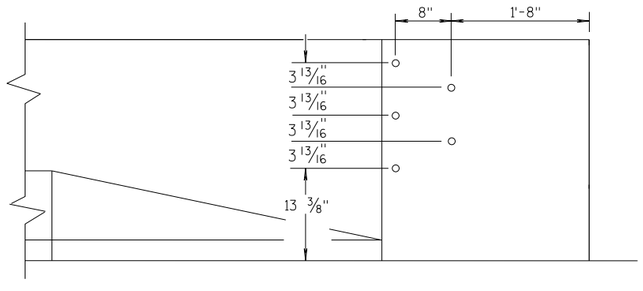




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVIS[illegible]
FHWA

6

S.D.D. 14 B 45-5d

6

S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

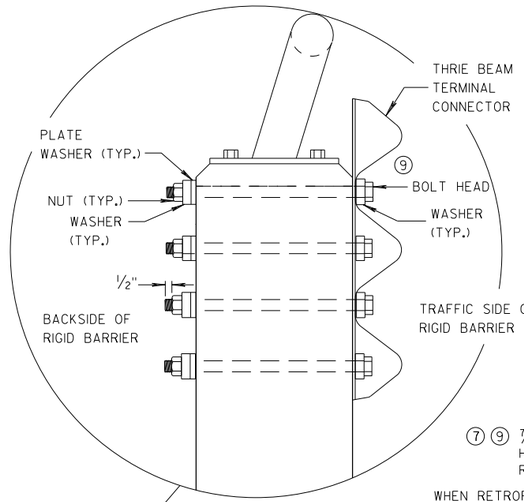
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

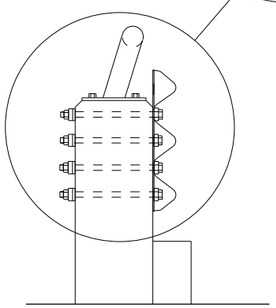
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

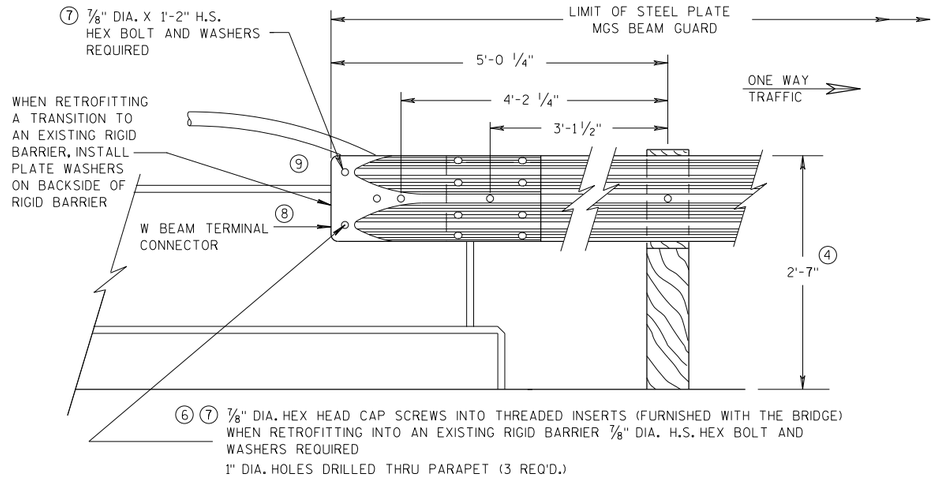
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





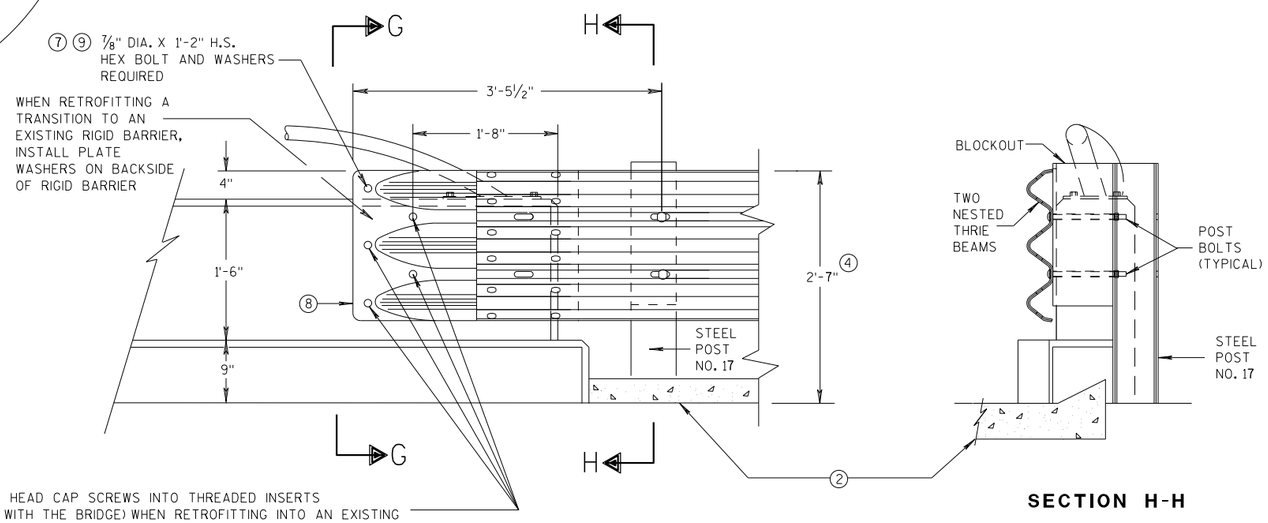
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

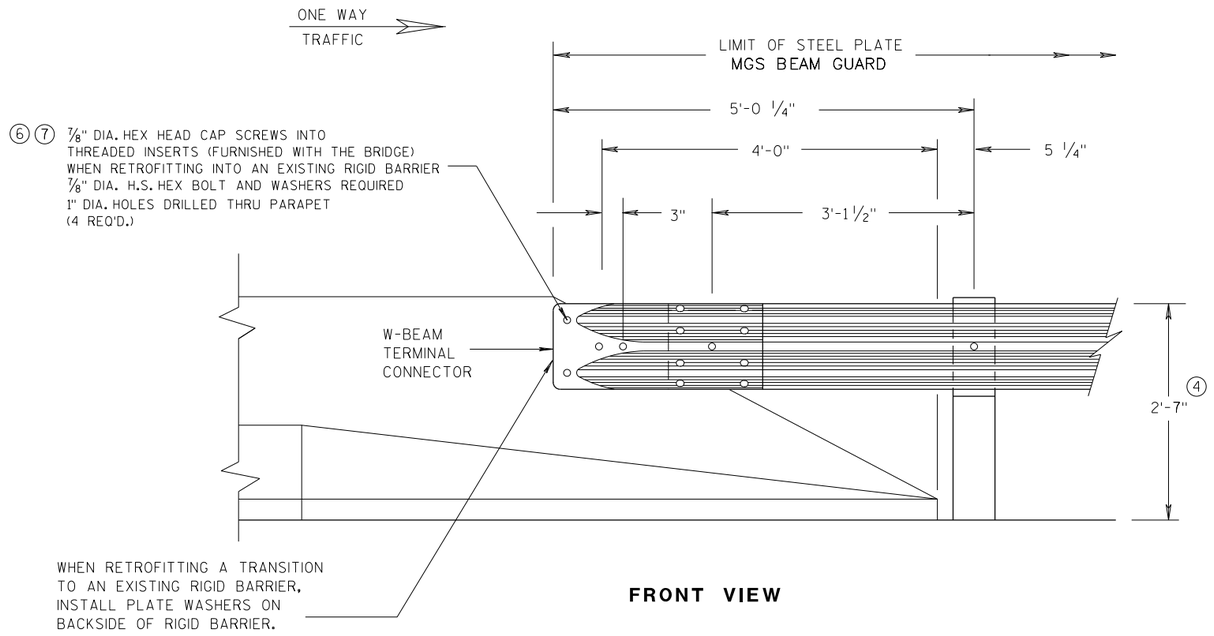
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/S/ Rodney Taylor
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S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

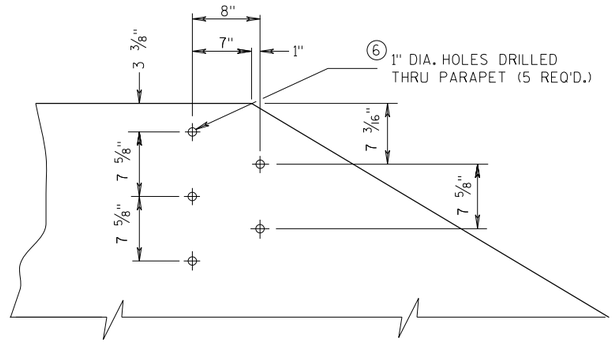
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

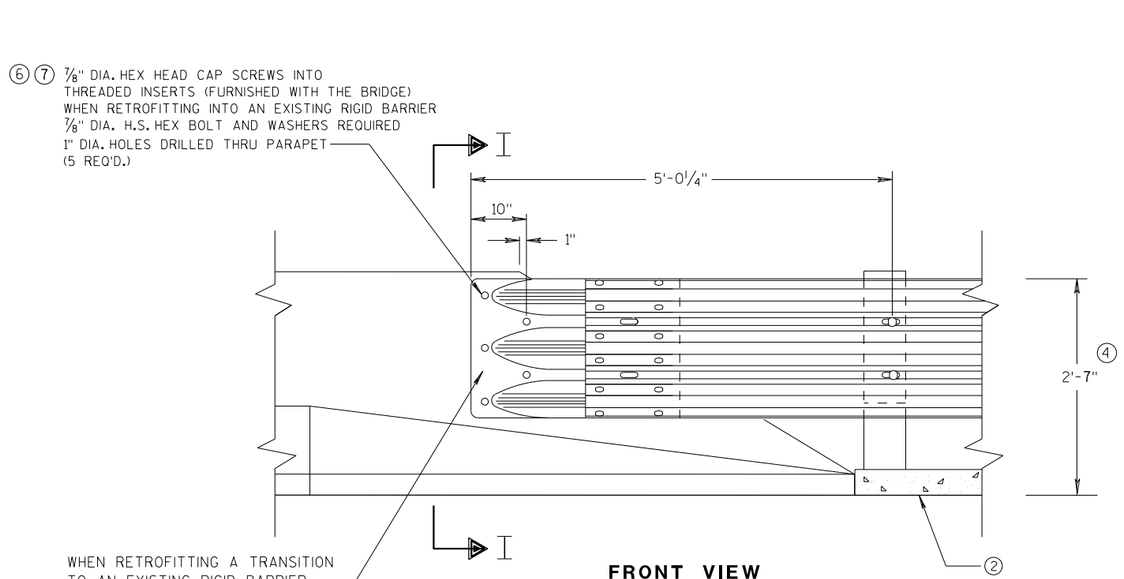
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

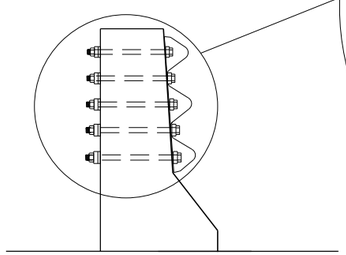
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



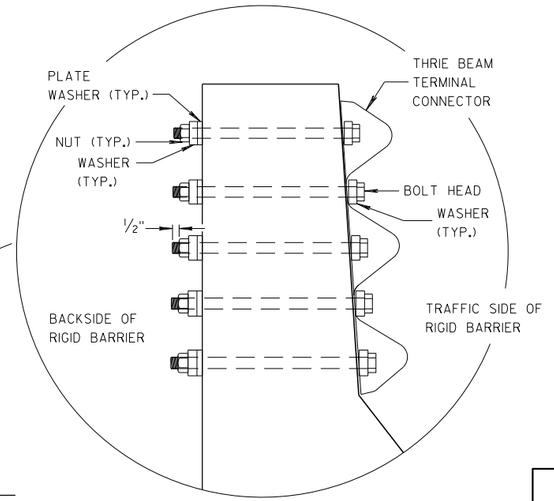
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

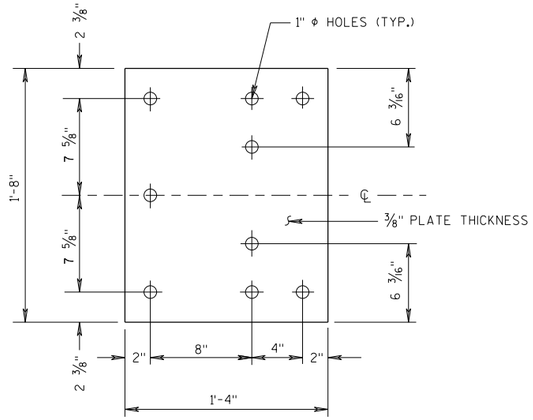
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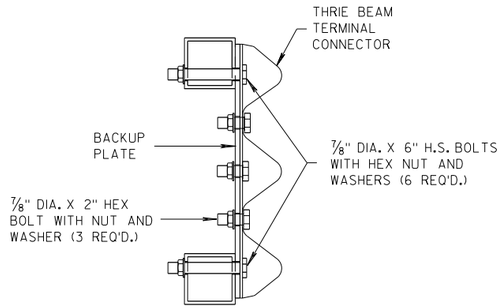
S.D.D. 14 B 45-5f

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S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL

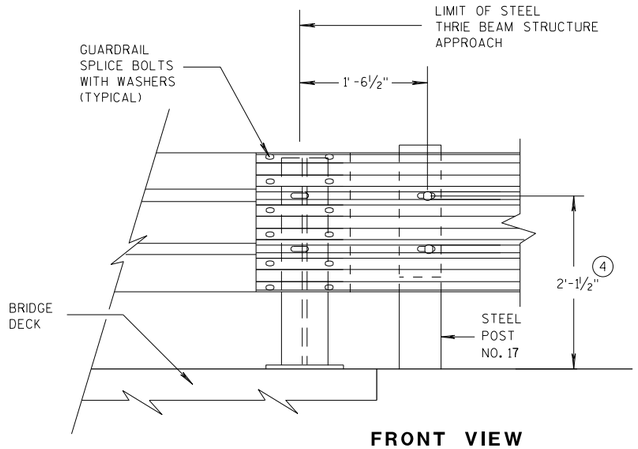


SECTION J-J

GENERAL NOTES

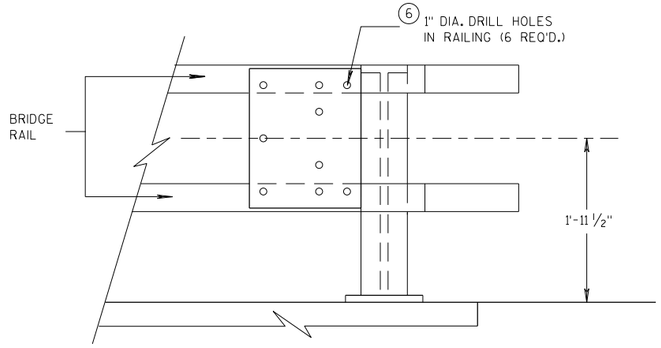
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(6) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

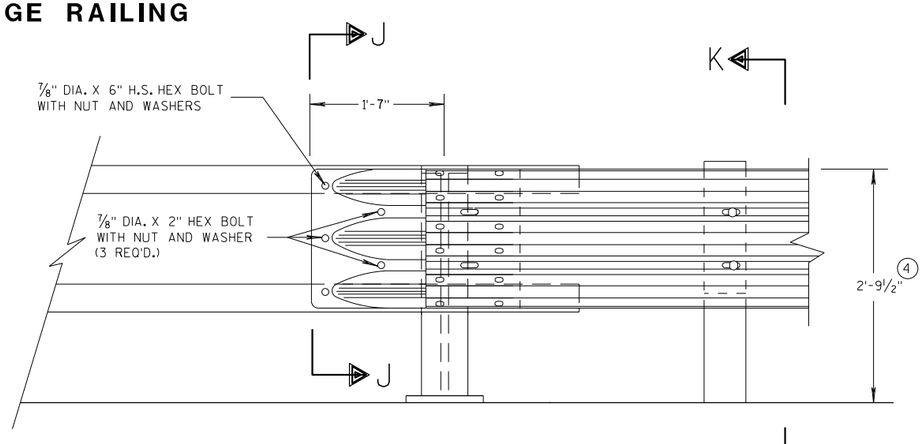


FRONT VIEW

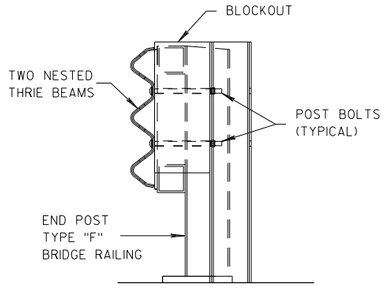
THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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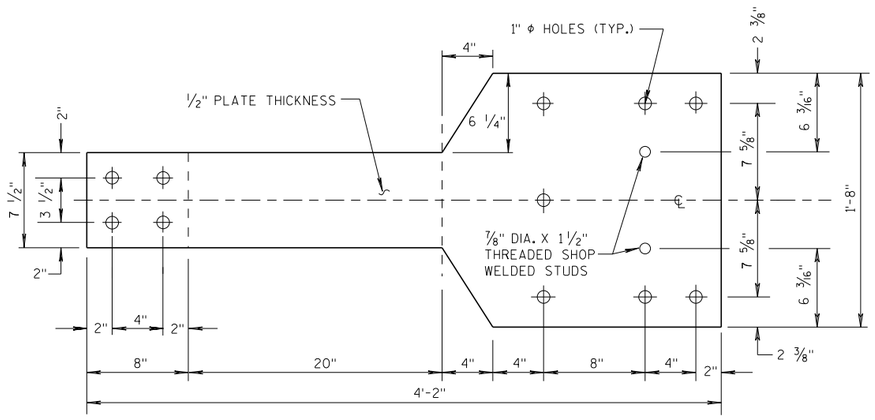
S.D.D. 14 B 45-5g

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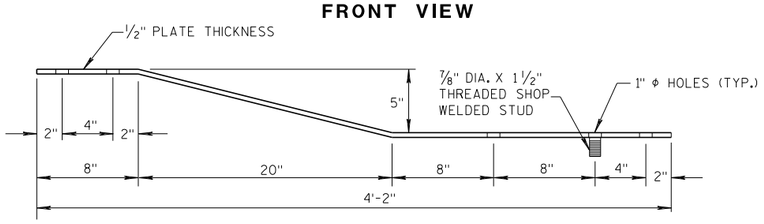
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

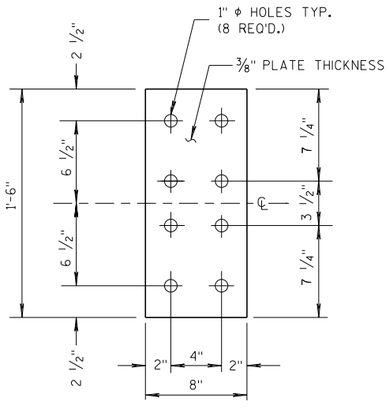


FRONT VIEW



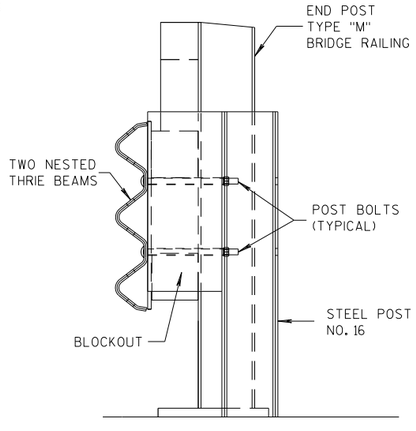
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

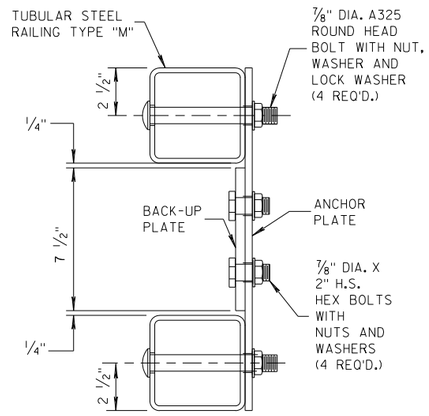


FRONT VIEW

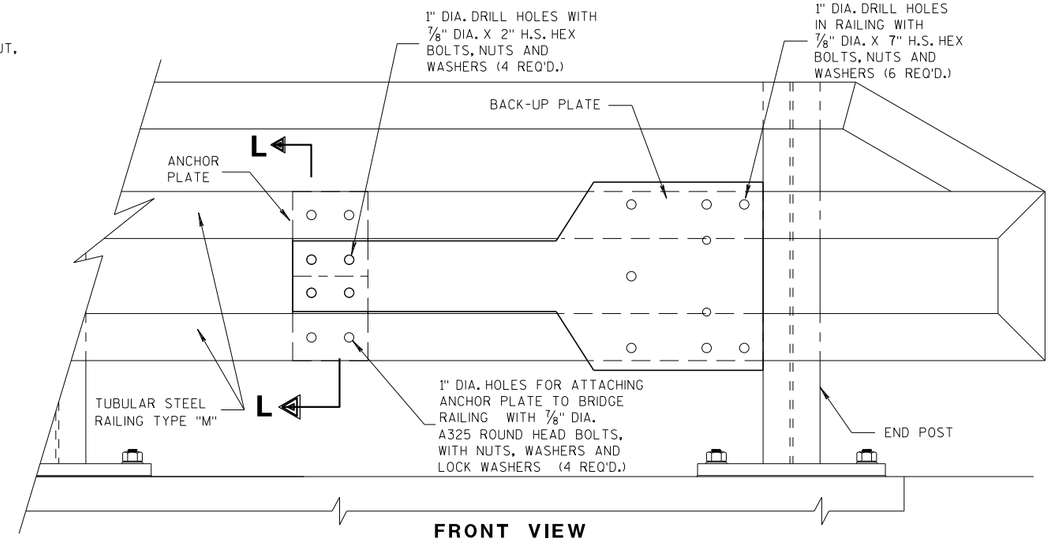
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

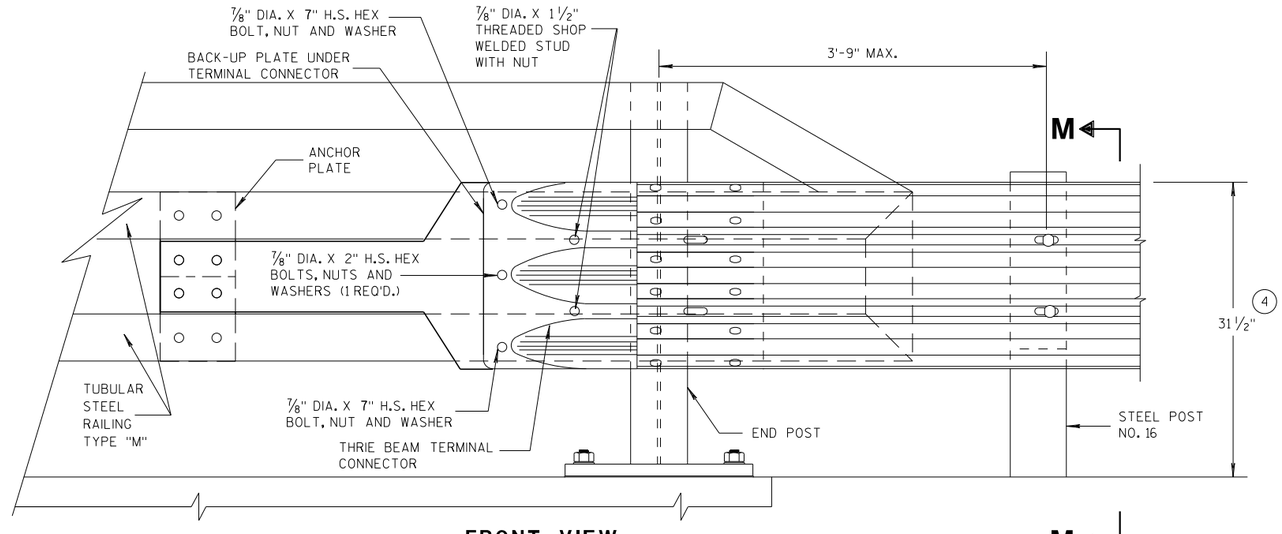


SECTION L-L

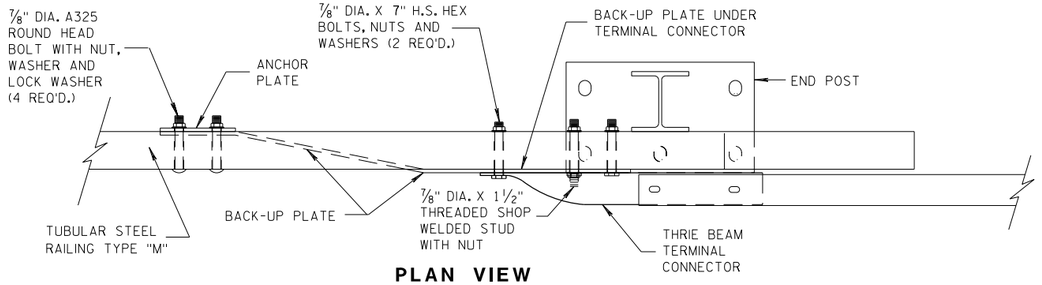


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
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GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

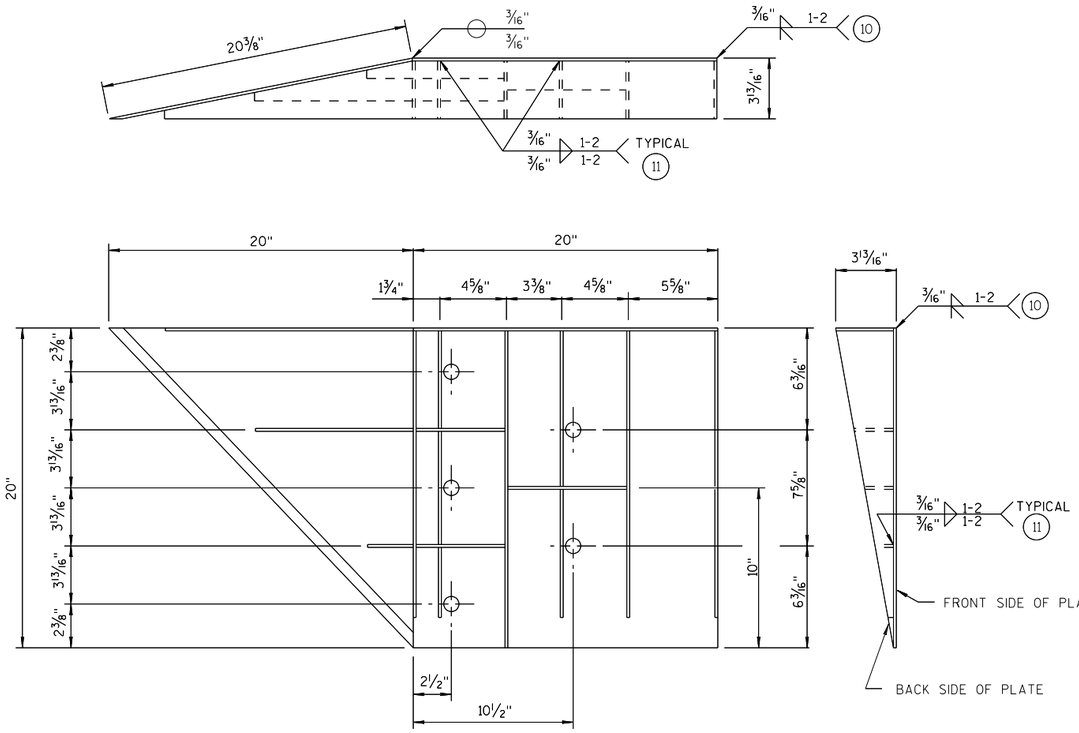
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

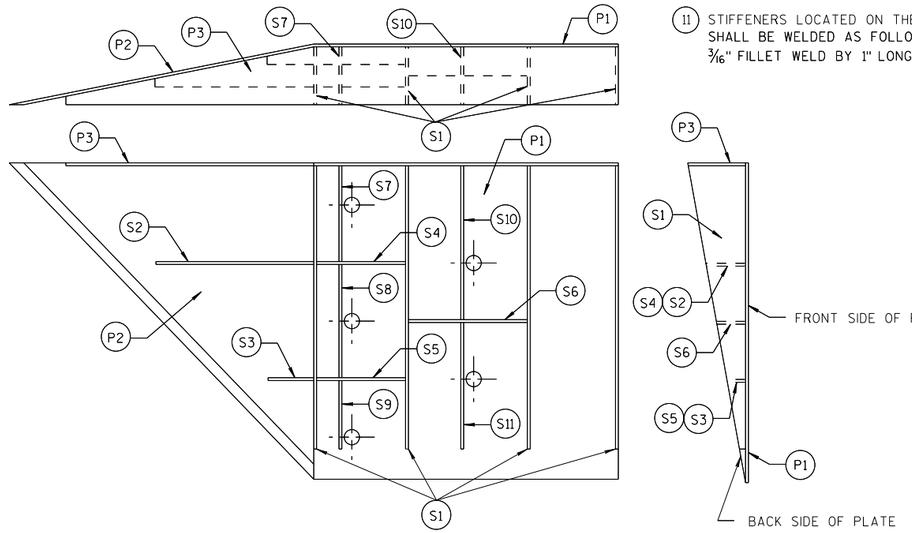


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

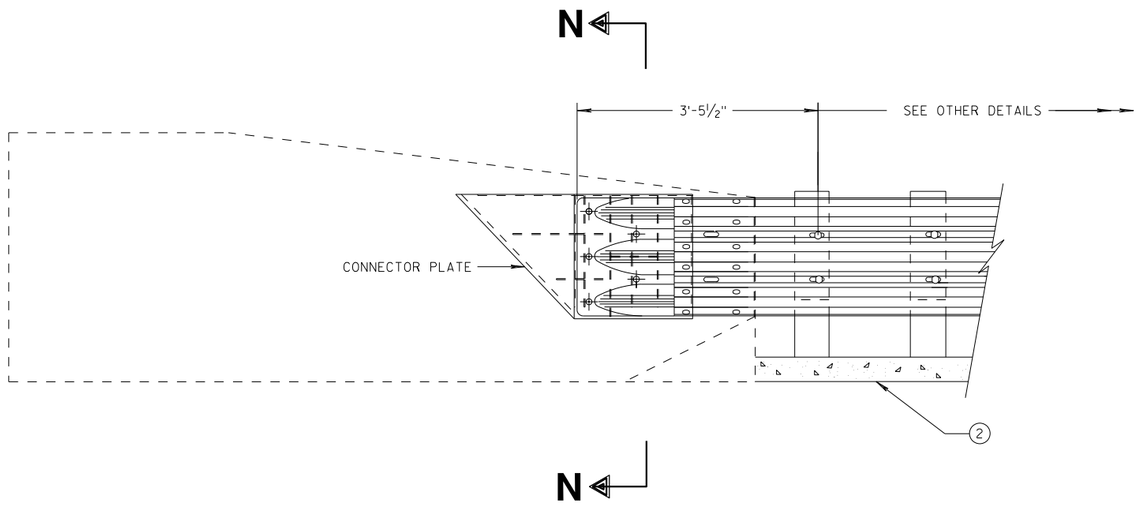
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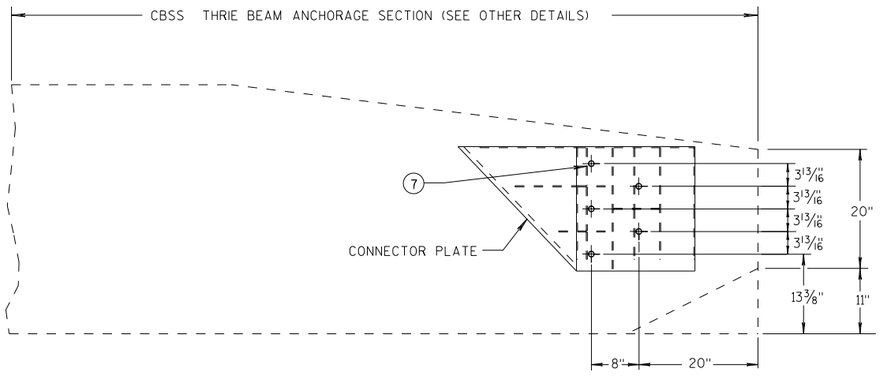
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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



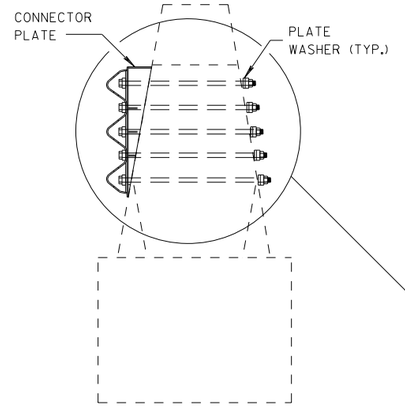
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

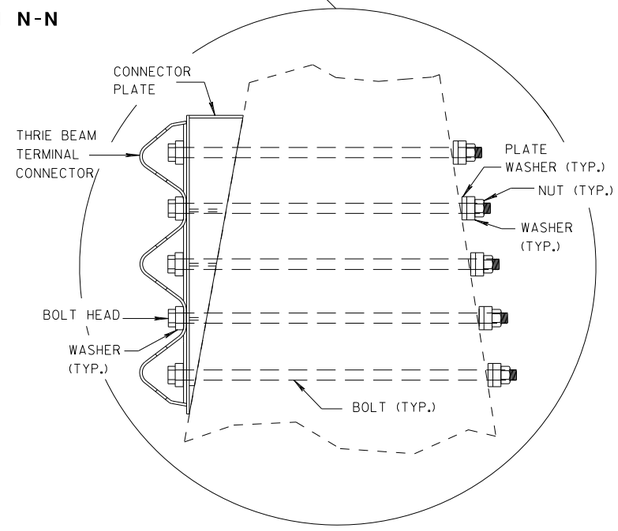
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

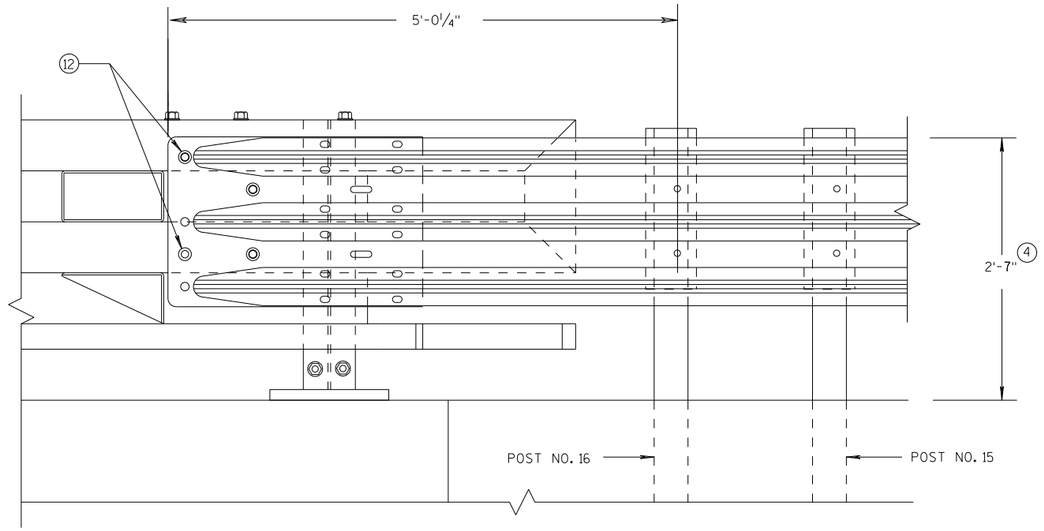
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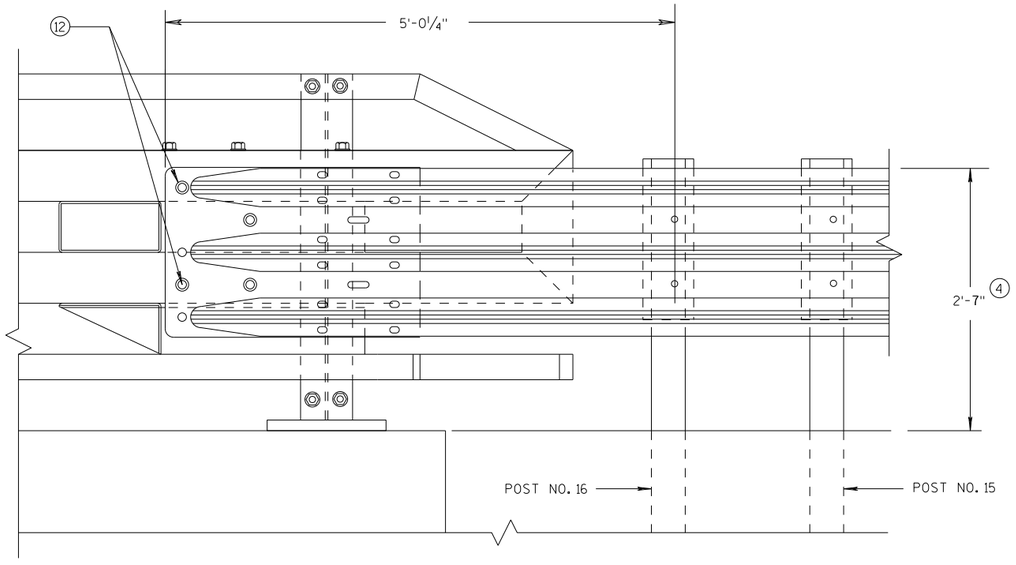
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ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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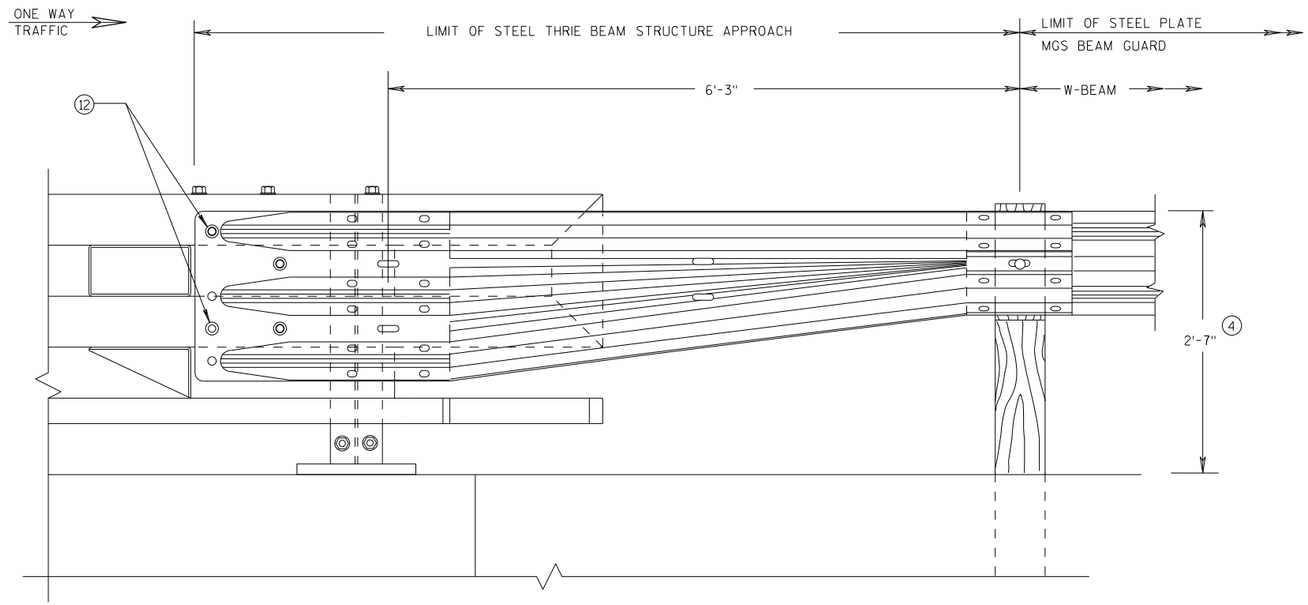
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S.D.D. 14 B 45-5k



FRONT VIEW

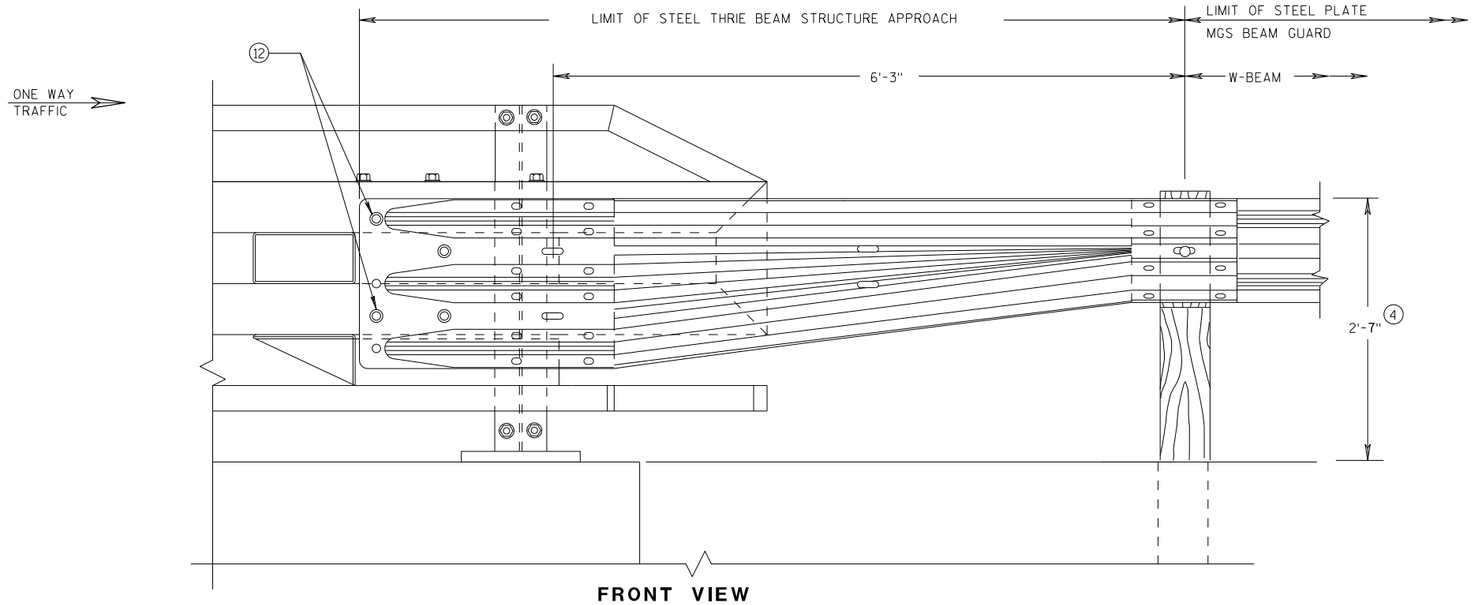
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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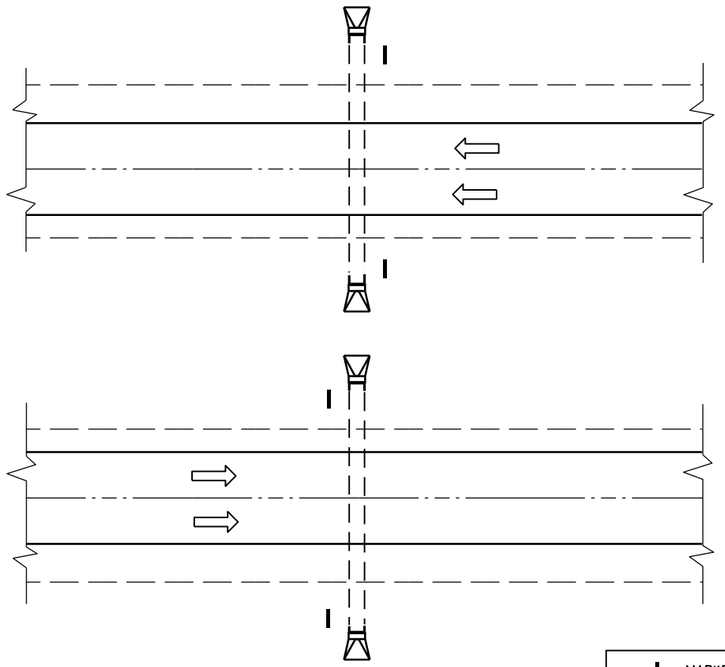
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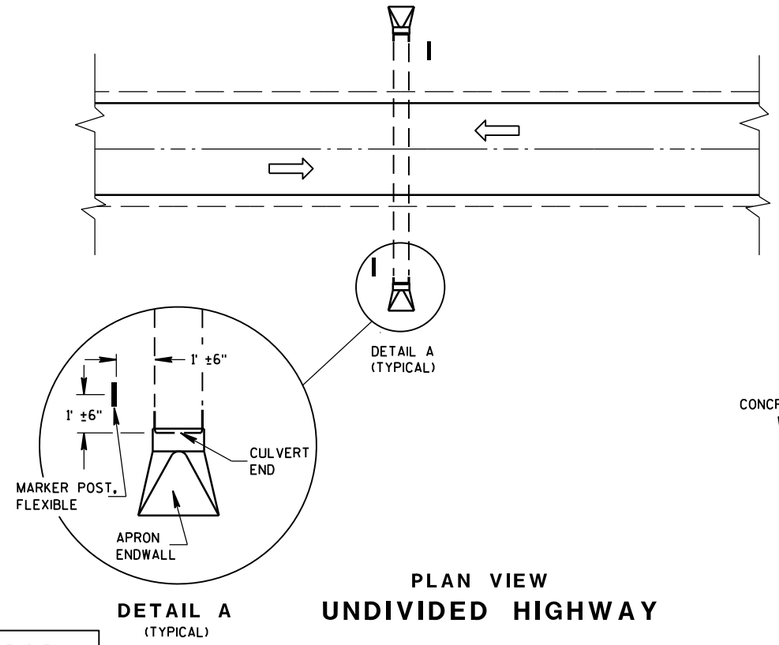
GENERAL NOTES

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



PLAN VIEW

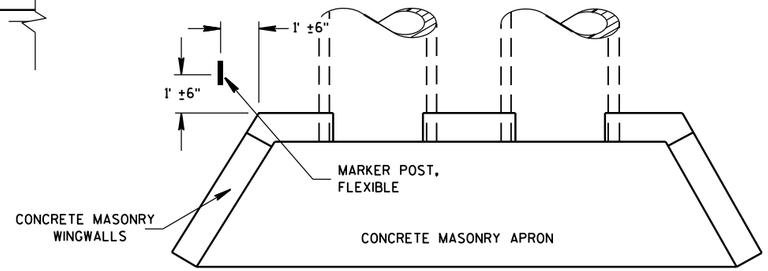
DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

UNDIVIDED HIGHWAY



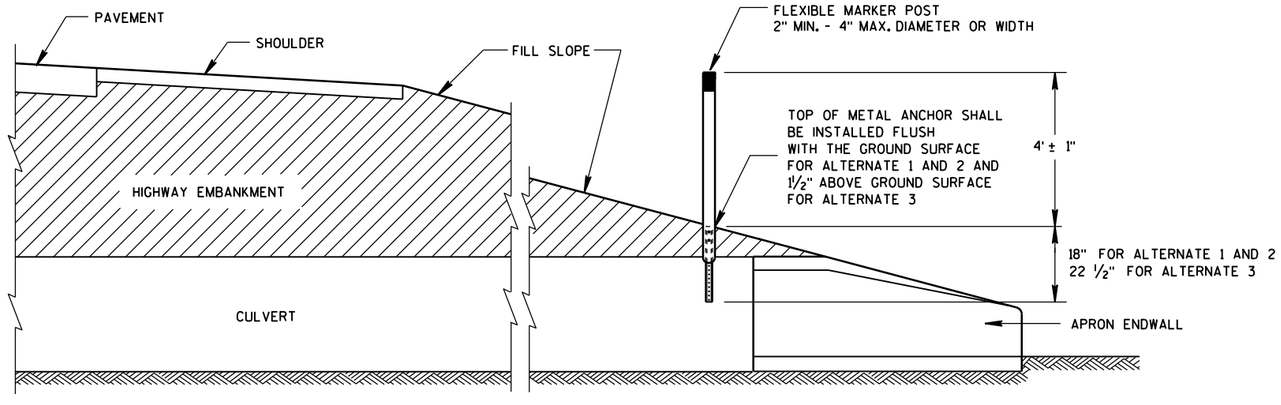
PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

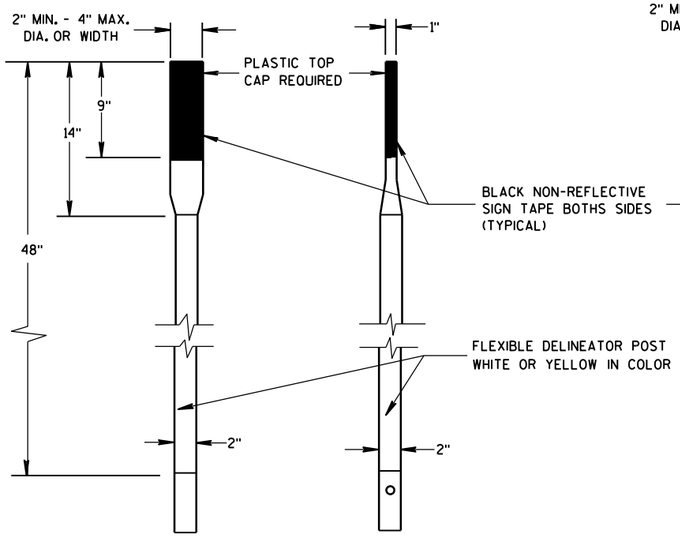
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

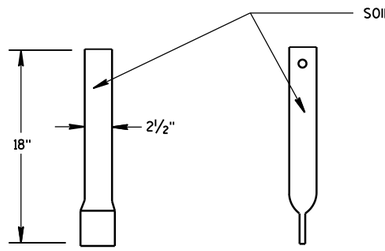
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S.D.D. 15 A 3-2a

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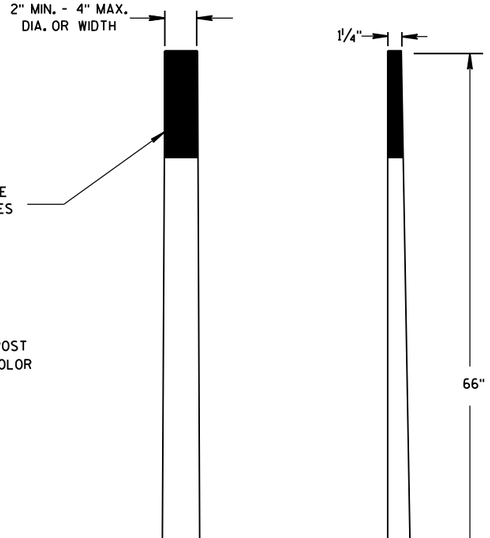
S.D.D. 15 A 3-2a





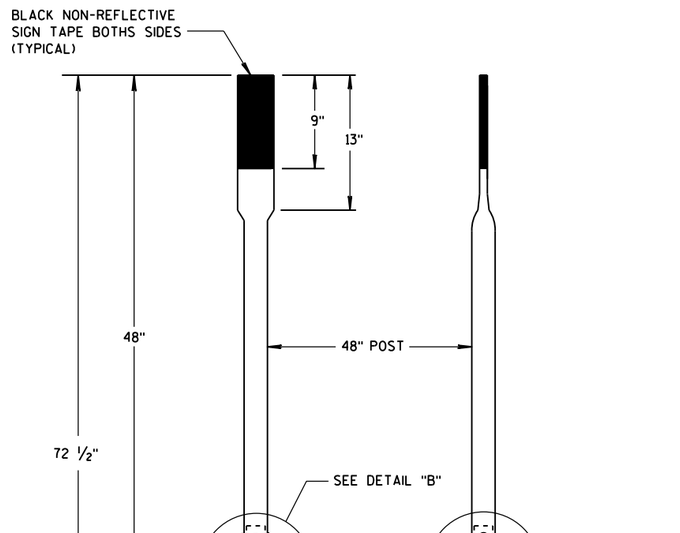
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

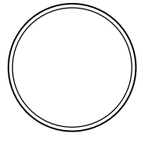
ALTERNATE 2



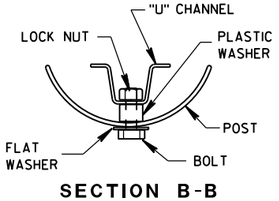
FRONT VIEW SIDE VIEW

ALTERNATE 3

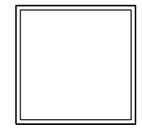
FLEXIBLE MARKER POSTS



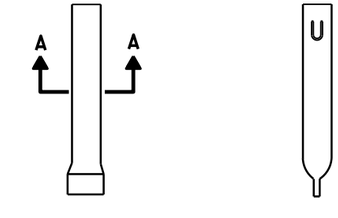
SECTION A-A



SECTION B-B

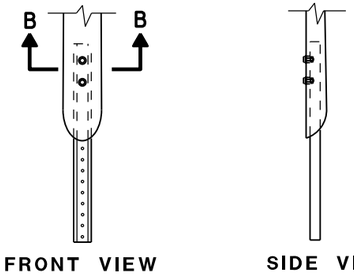


SECTION C-C



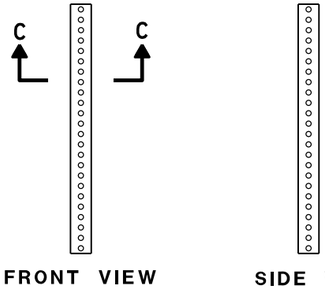
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

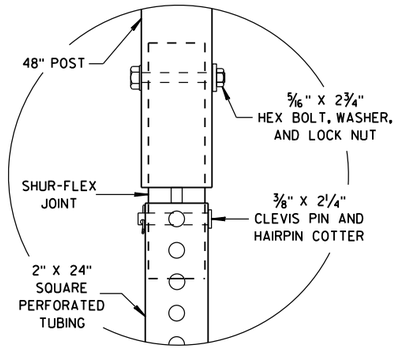
ALTERNATE 2



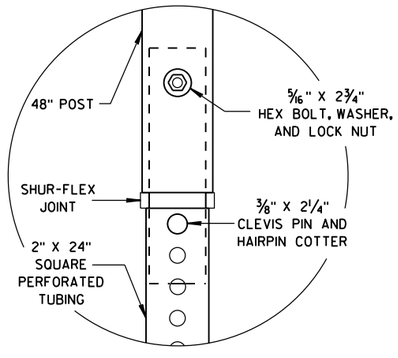
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

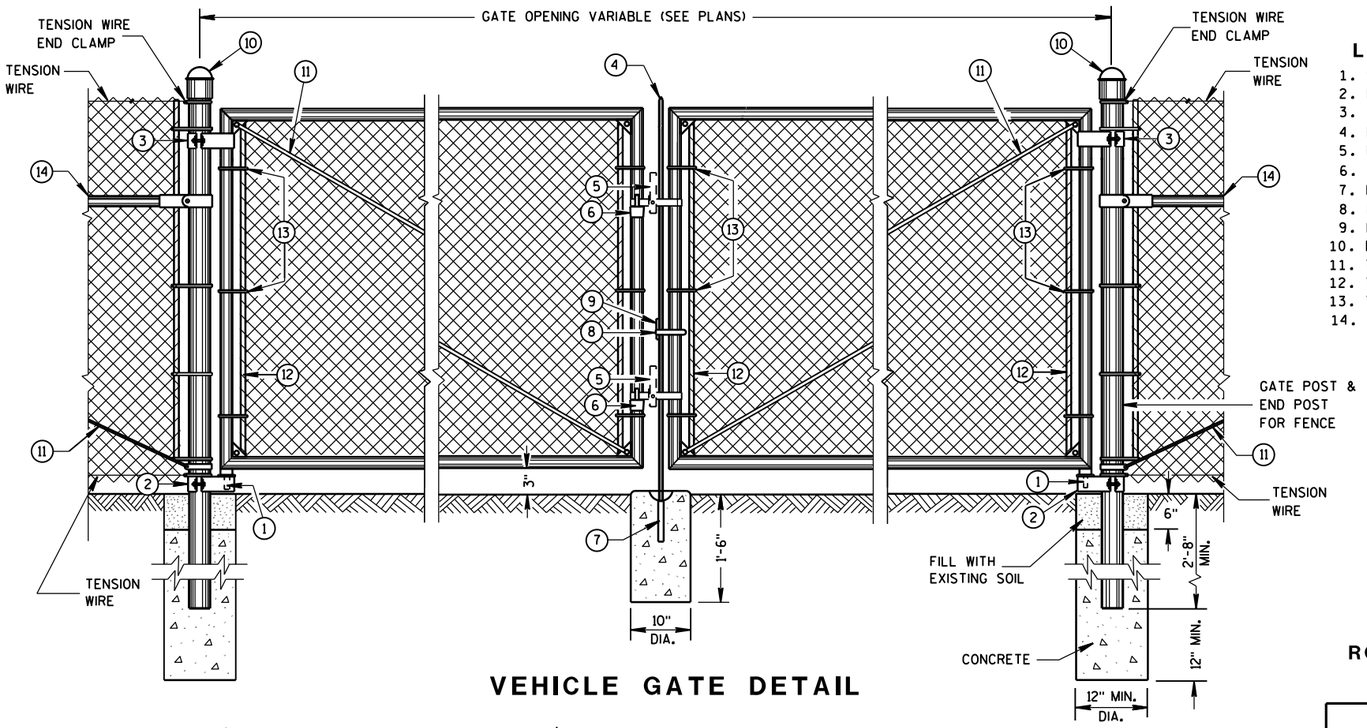
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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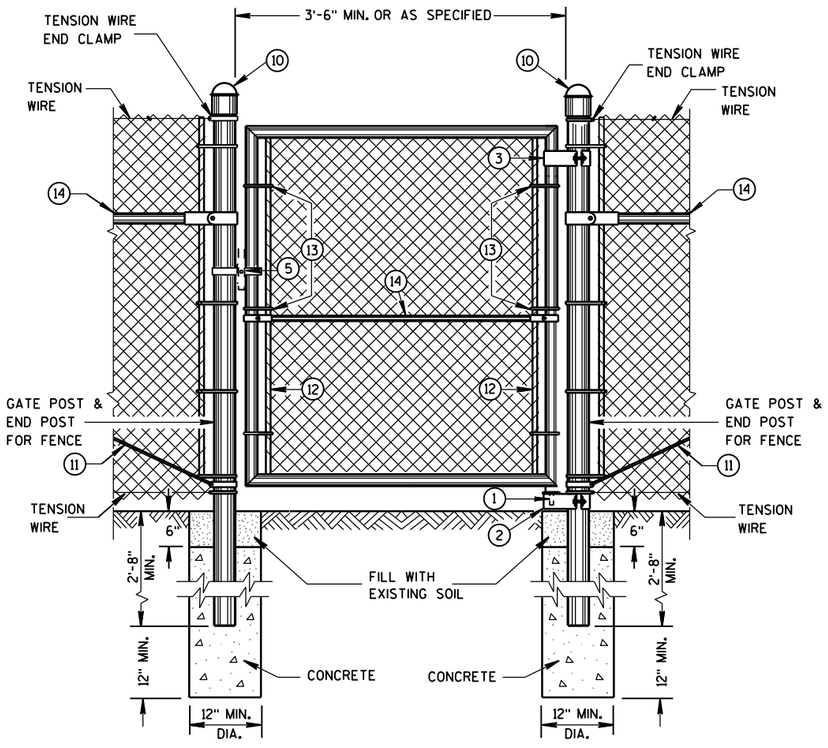
S.D.D. 15 A 3-2b

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S.D.D. 15 A 3-2b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

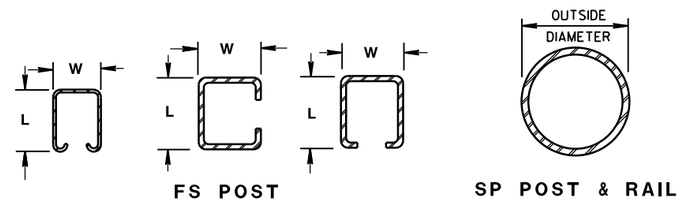
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

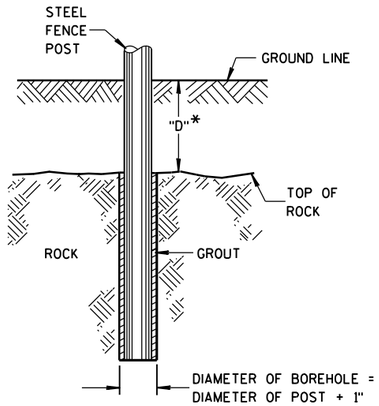
** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

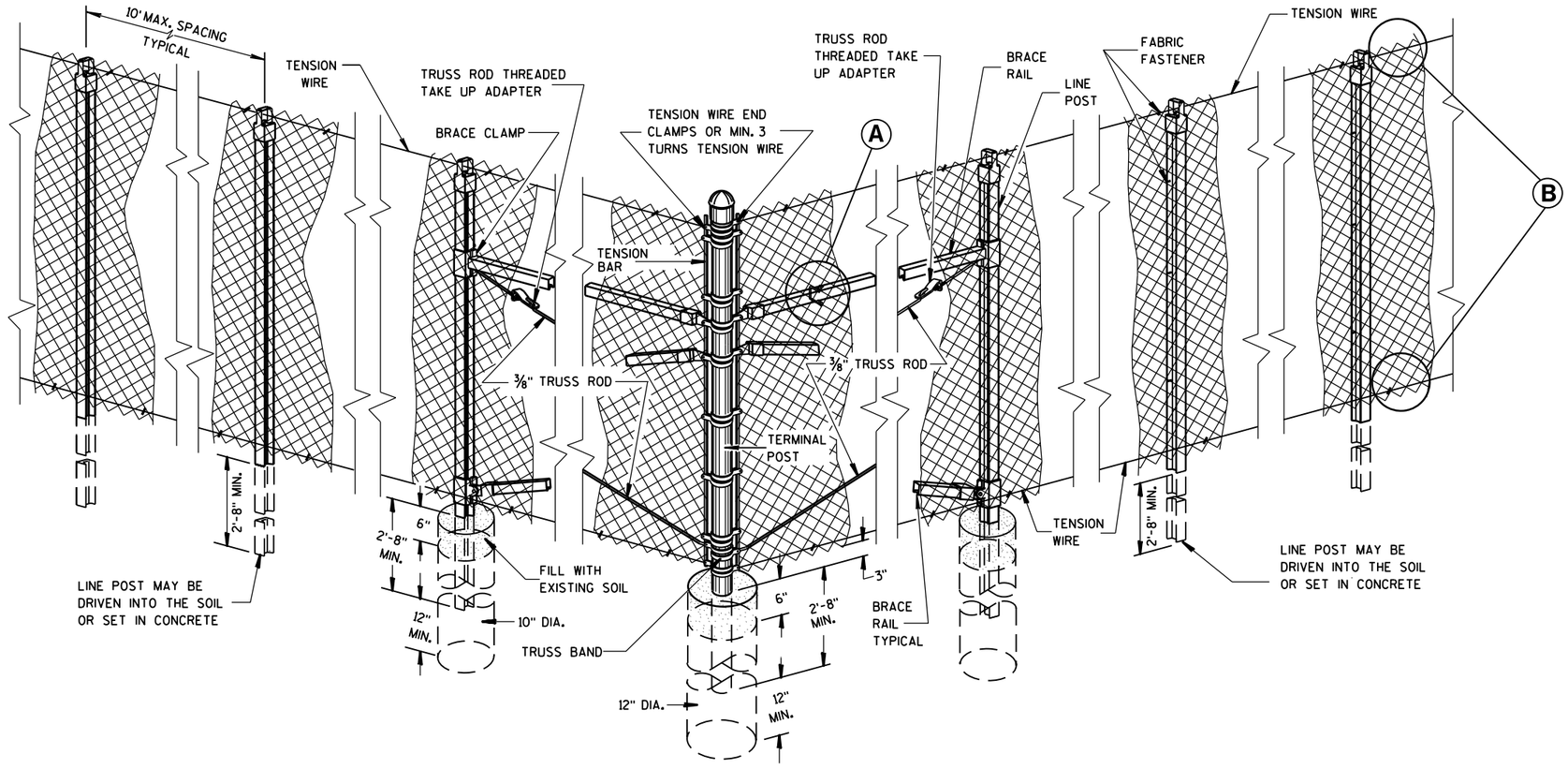
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S.D.D. 15 B 3-15a

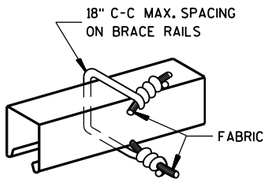


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



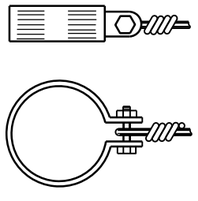
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



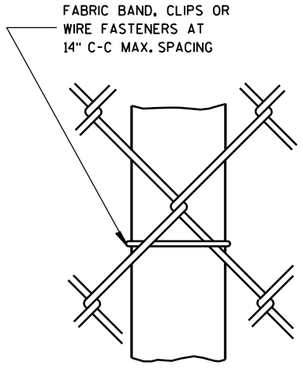
BRACE RAIL

FABRIC FASTENER

Ⓐ



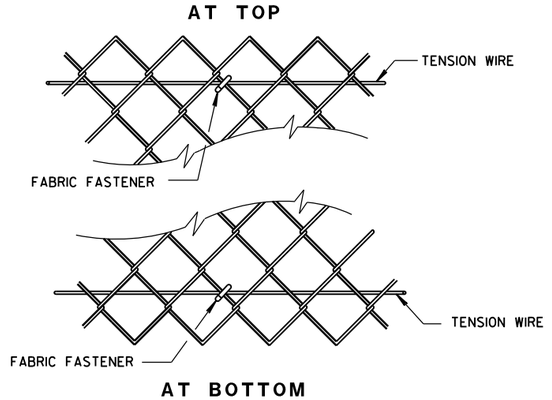
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

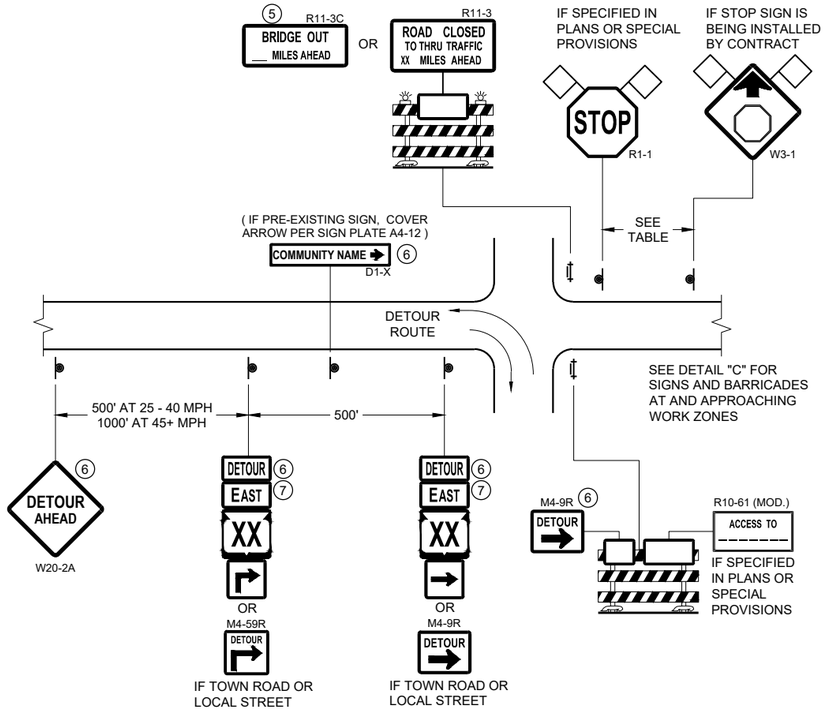
APPROVED
FEB. 2015 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 15 B 3-15b

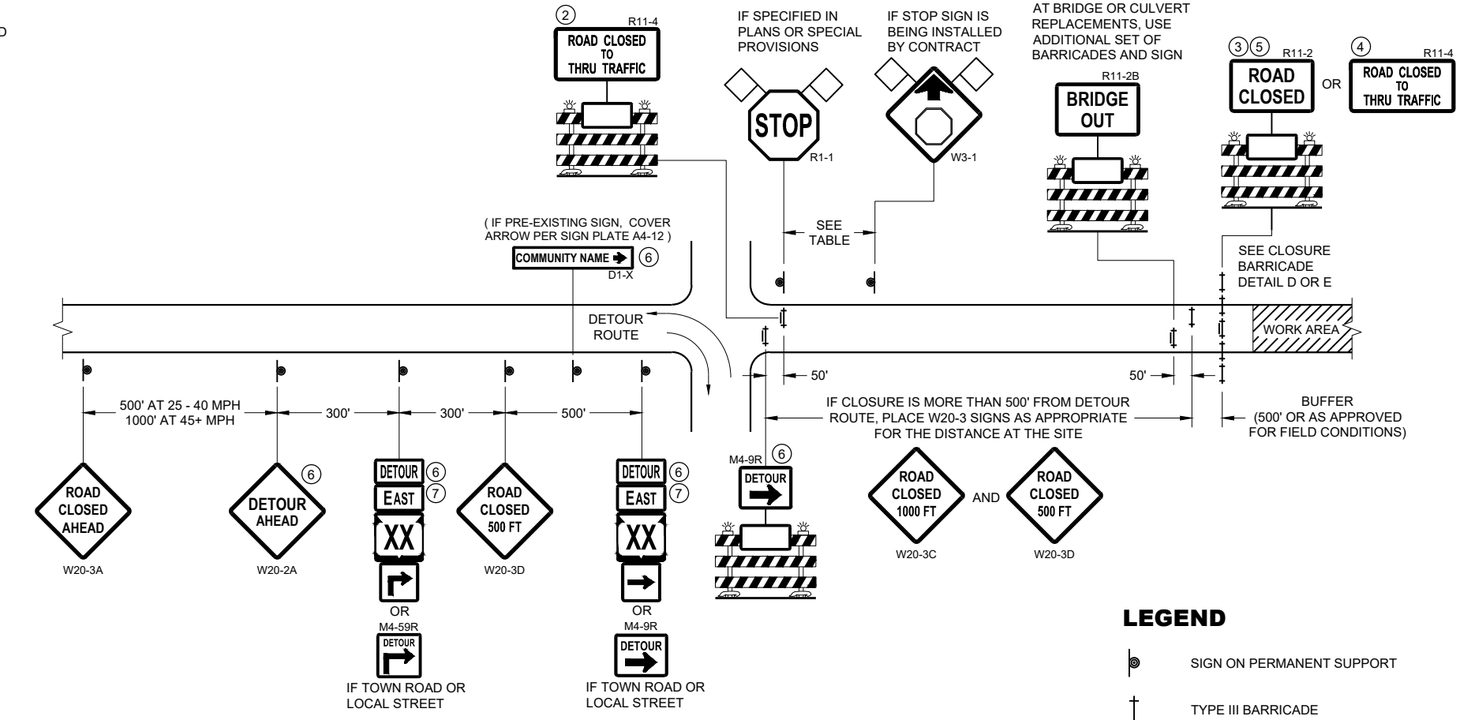
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S.D.D. 15 B 3-15b



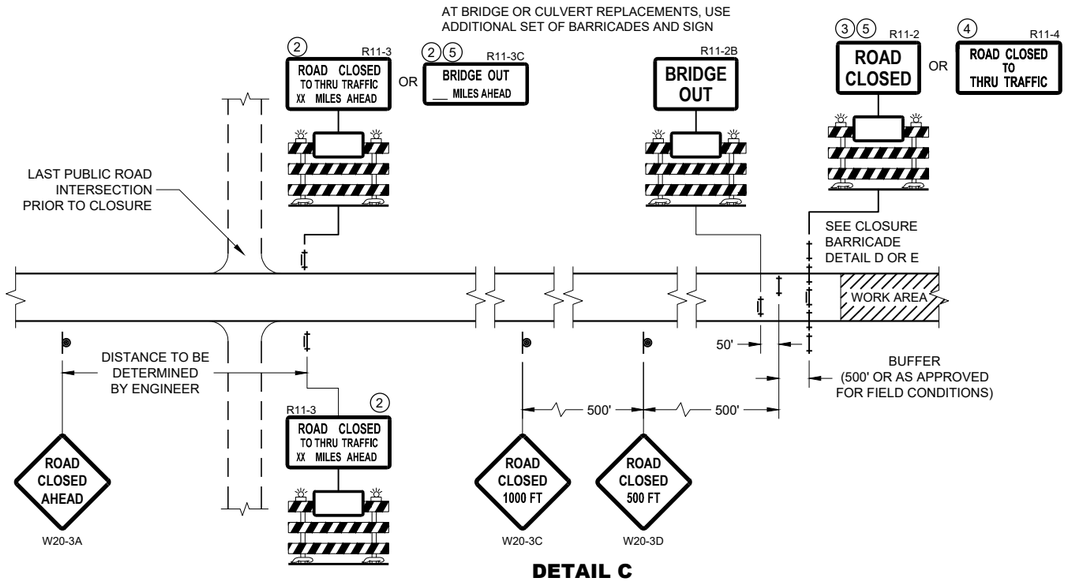
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

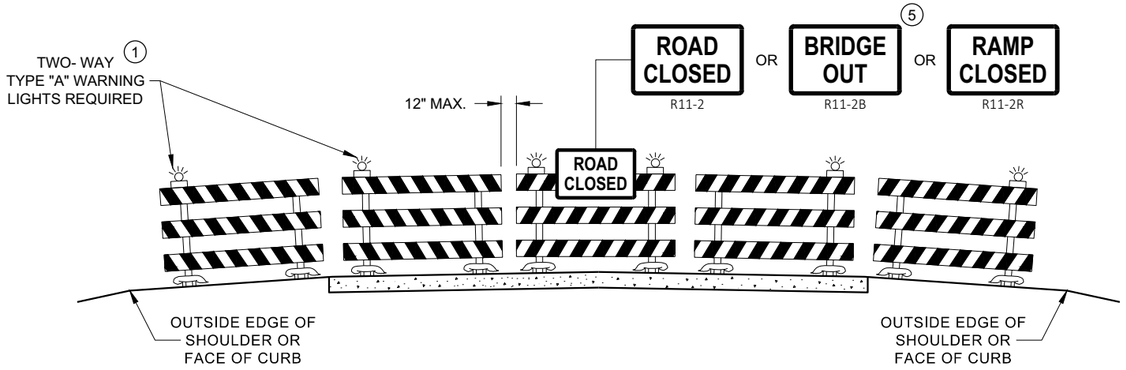
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

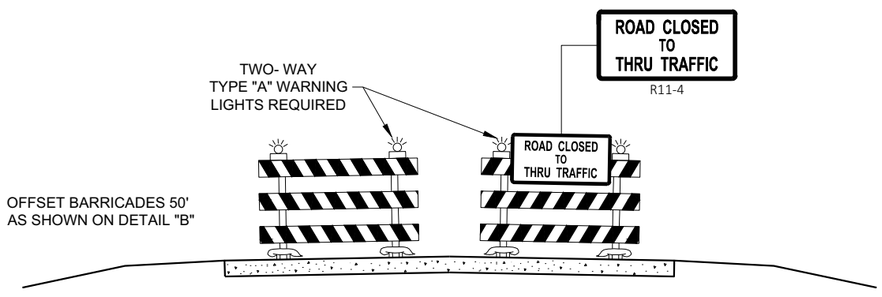
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SDD 15C02 - 08a

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

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4; XX — M1 - 6; COUNTY X — M1 - 5A
- M05 - 1; M06 - 1; M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

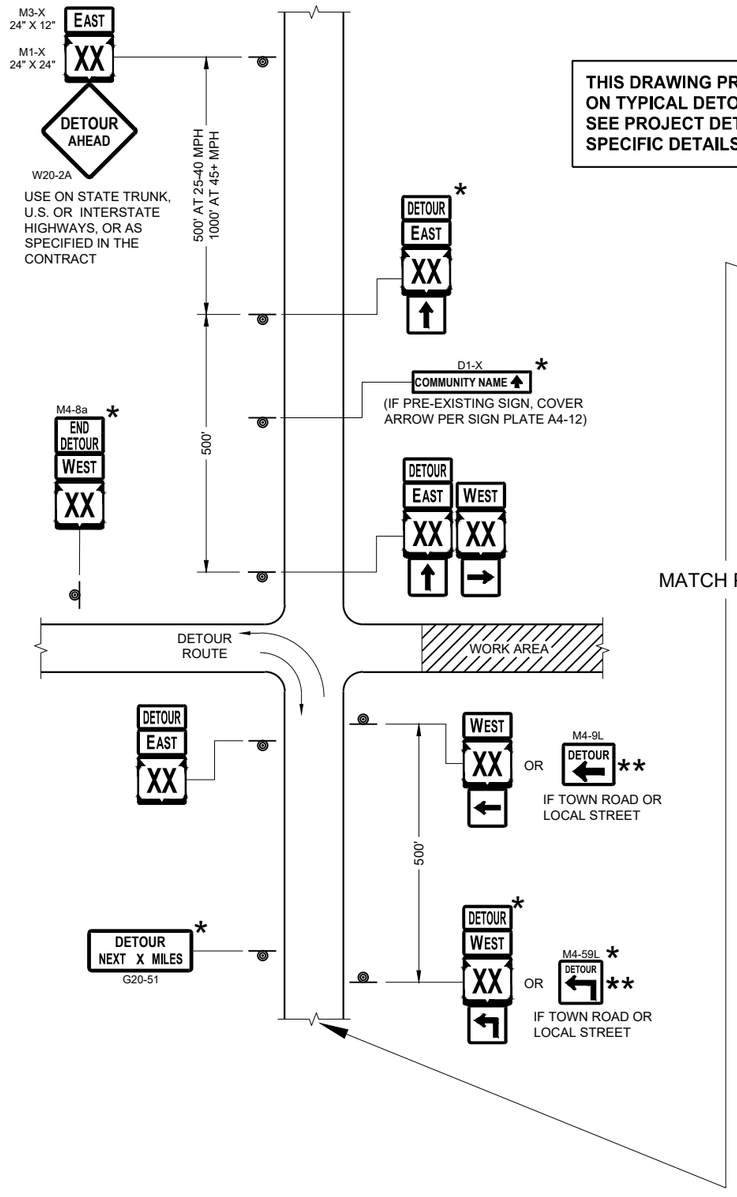
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

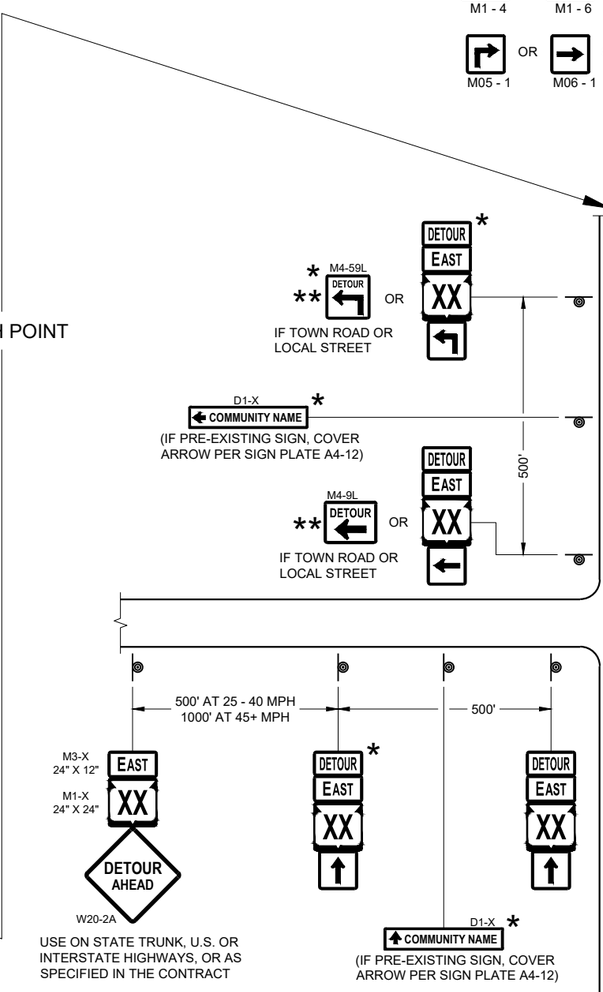
M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M4-9 AND M4-59 SHALL BE 30" X 24"
M4-8a SHALL BE 24" X 18"
G20-51 SHALL BE 60" X 24"
W20-2A SHALL BE 48" X 48"
D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

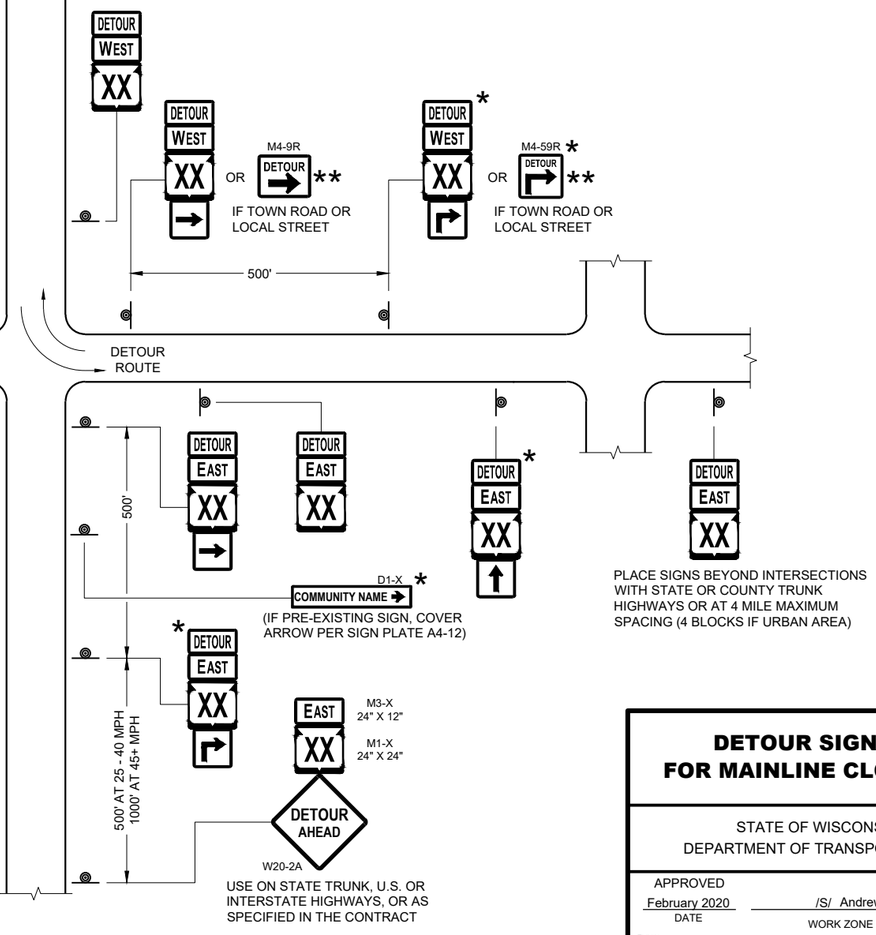
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



MATCH POINT





SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

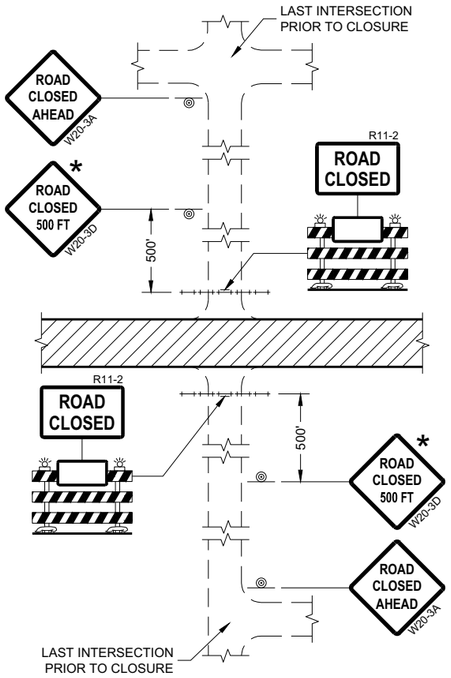
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

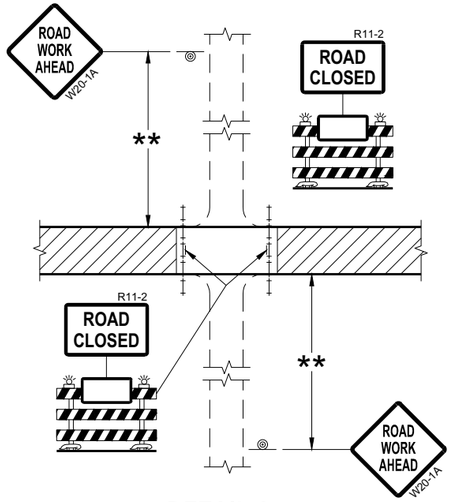
SDD 15C02 - 08c

6

SDD 15C02 - 08c



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

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

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

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

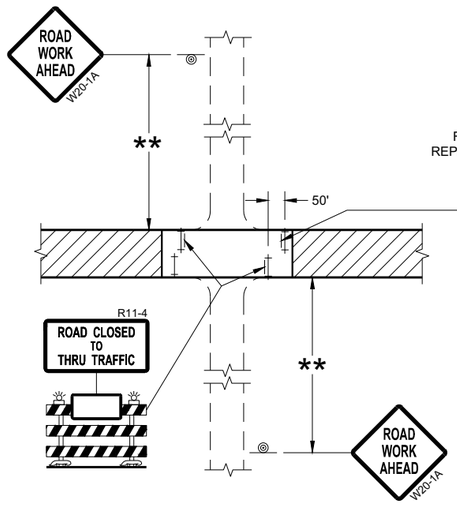
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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

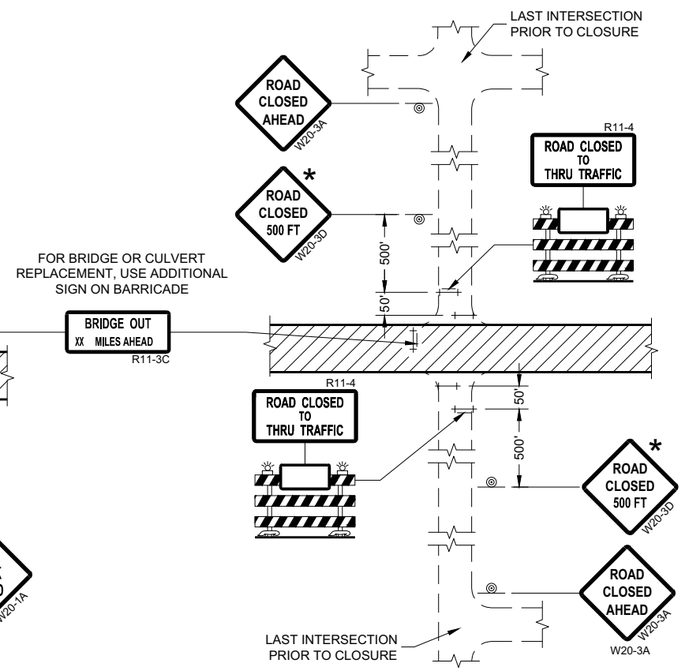
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

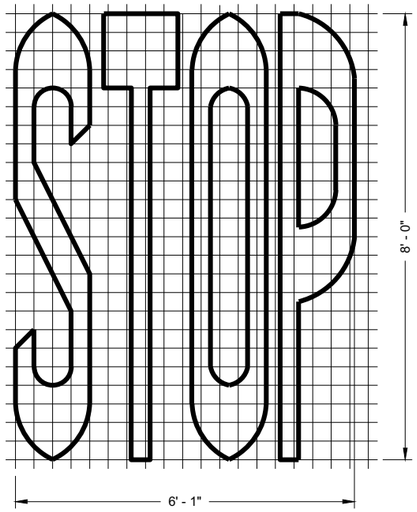
APPROVED
July 2018
DATE

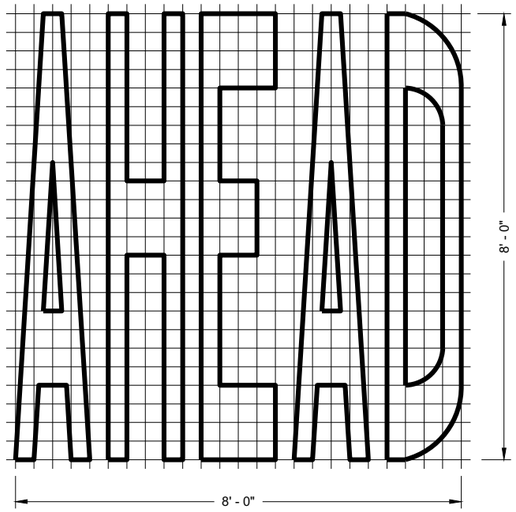
/S/ Andrew Heidtke
WORK ZONE ENGINEE

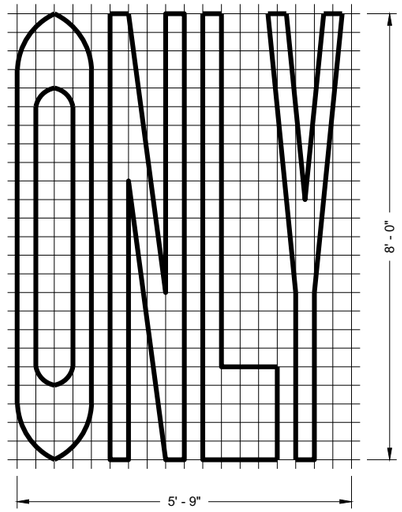
FHWA

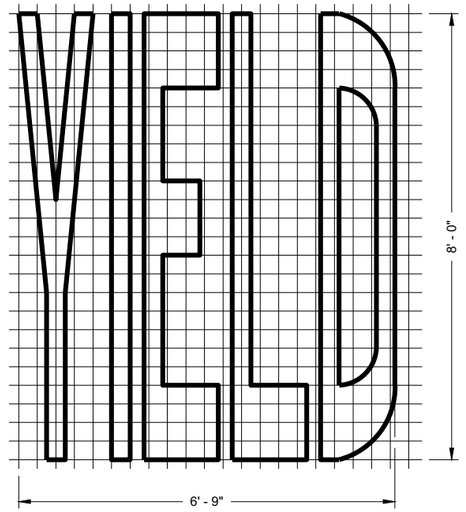
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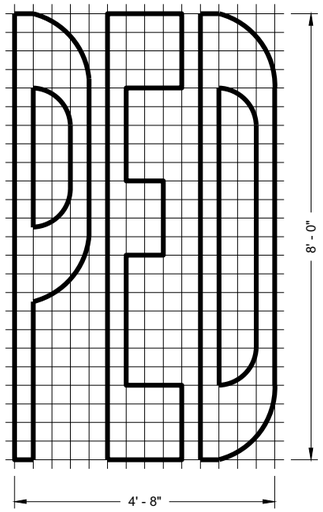
SDD 15C03 - 05

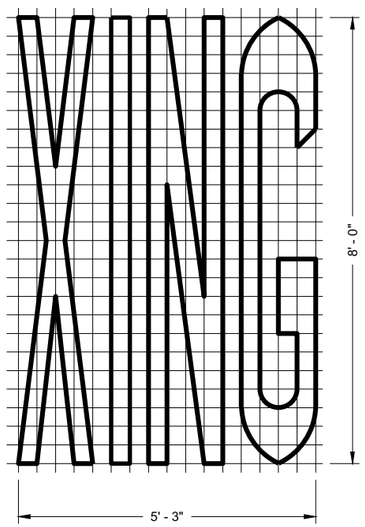


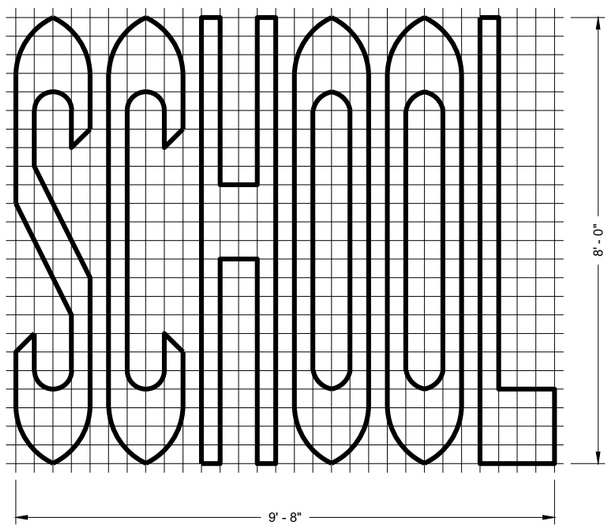




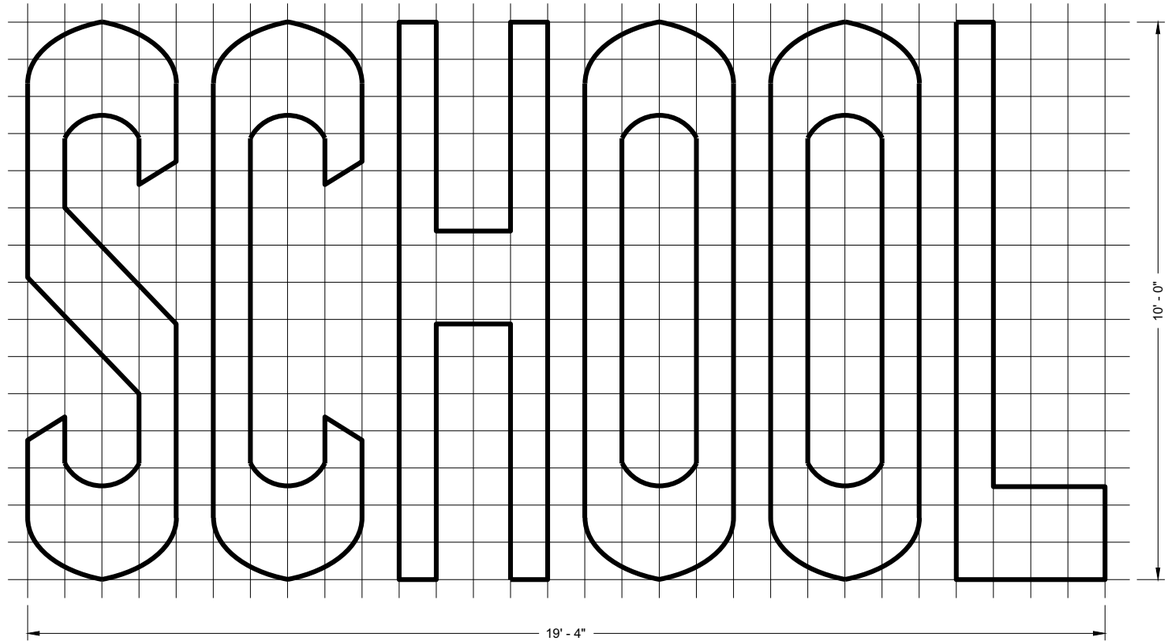








SINGLE LANE



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

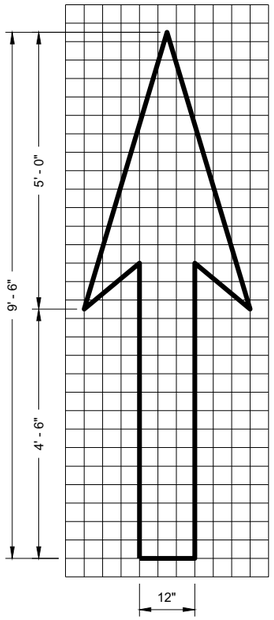
FHWA

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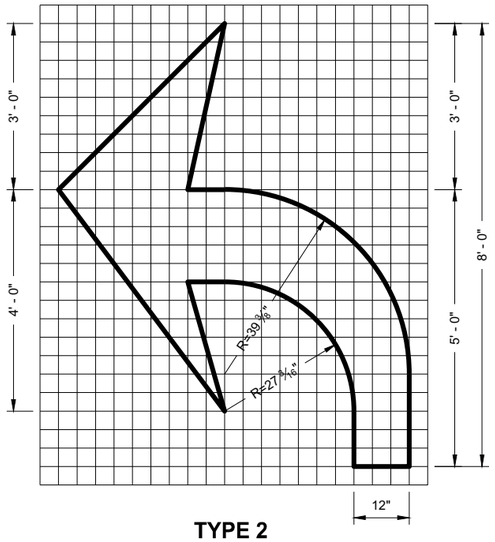
SDD 15C07 - 15b

GENERAL NOTES

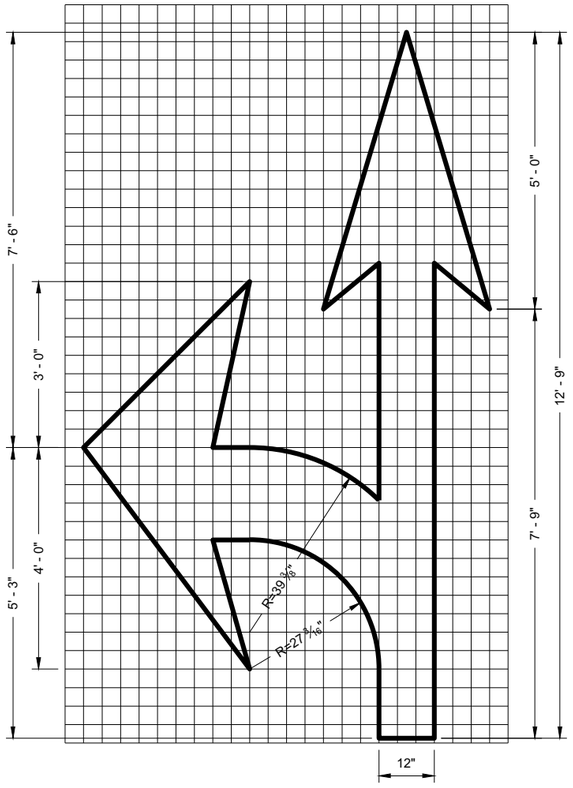
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



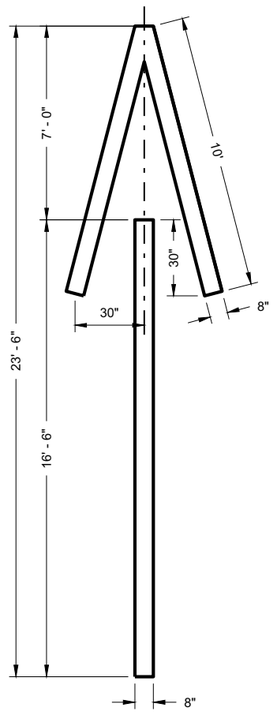
TYPE 1



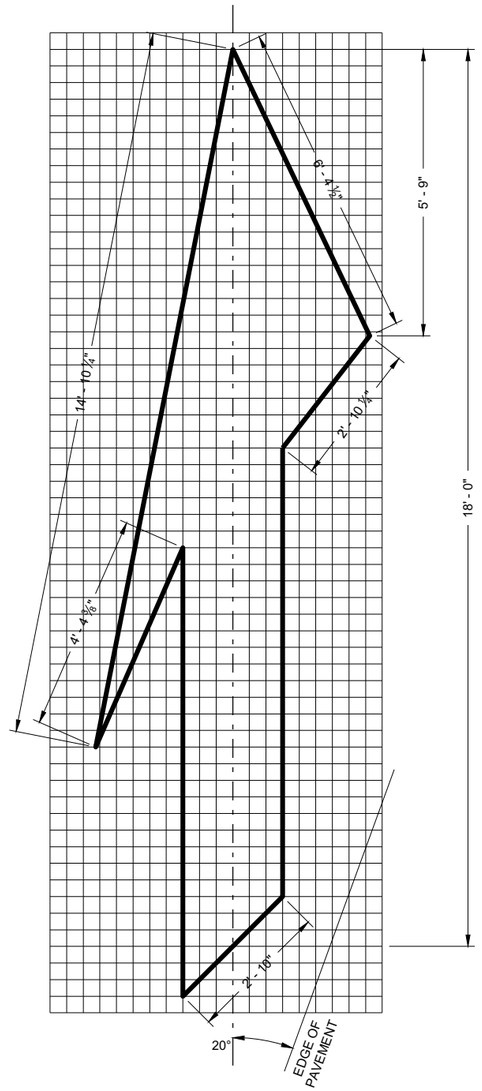
TYPE 2



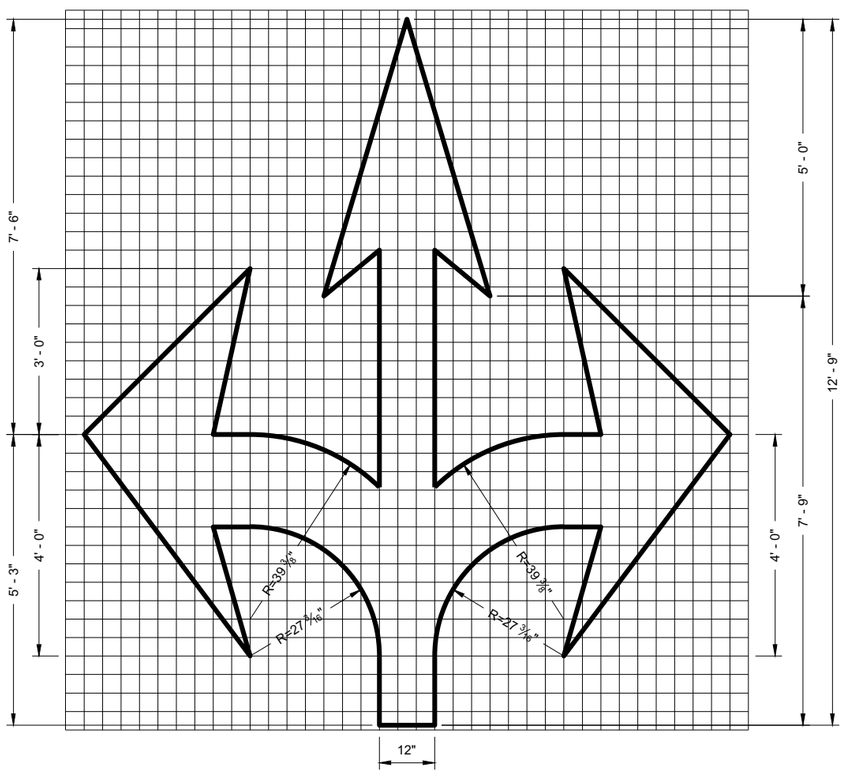
TYPE 3



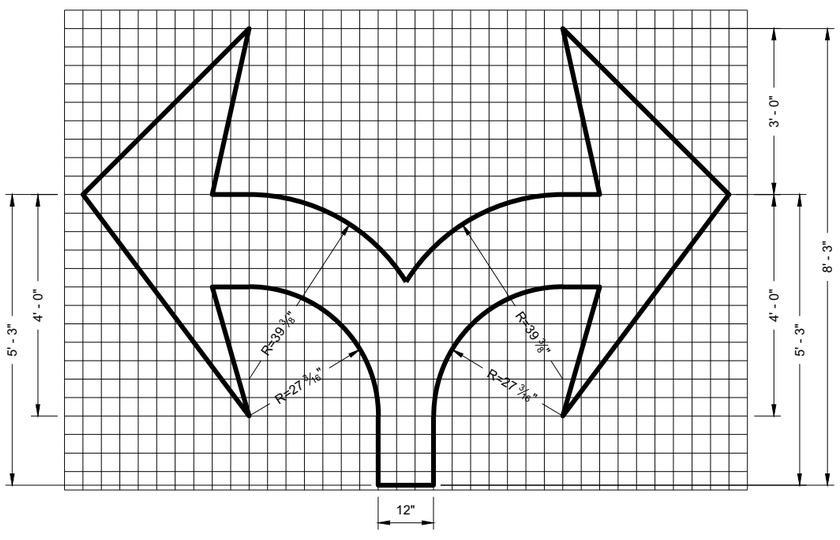
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

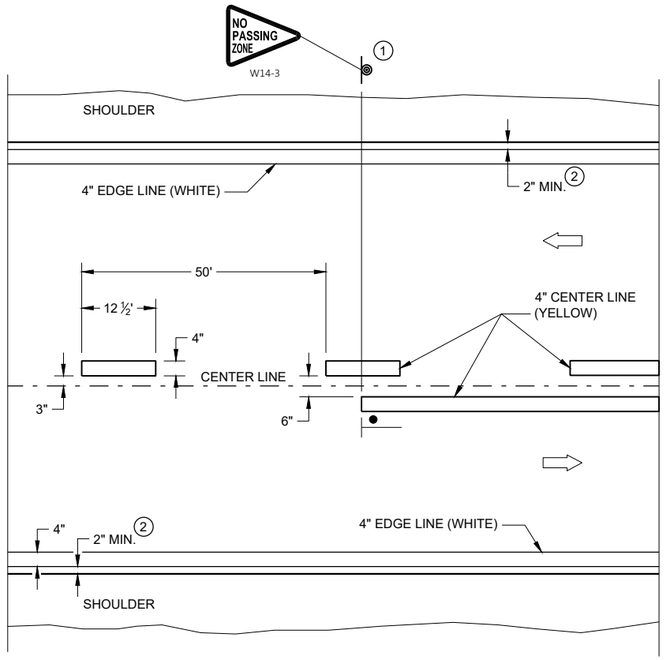
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

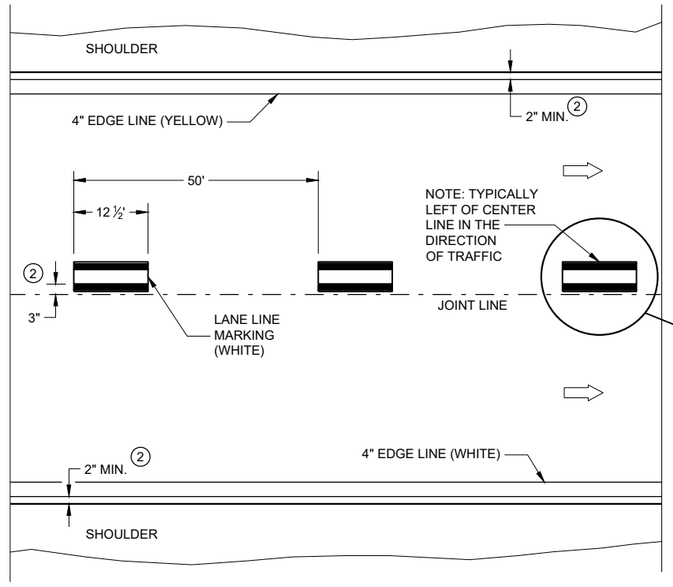
"T" MARKING

SIGN ON PERMANENT SUPPORT

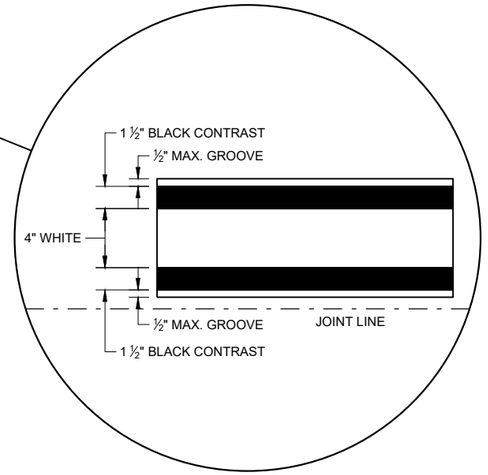
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

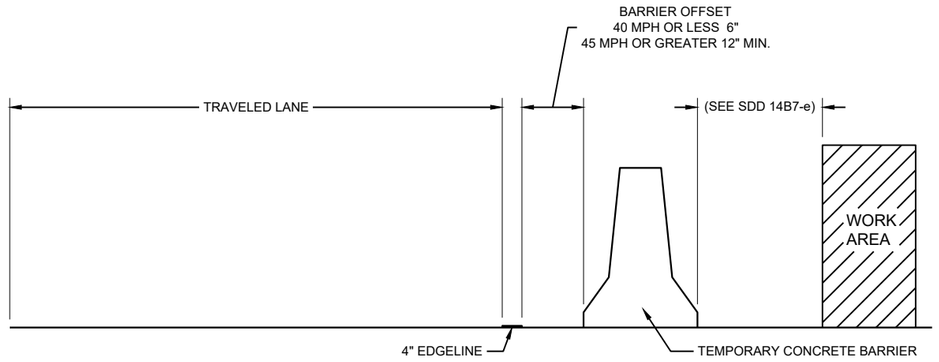
FHWA

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SDD 15C08 - 22a

6

SDD 15C08 - 22a



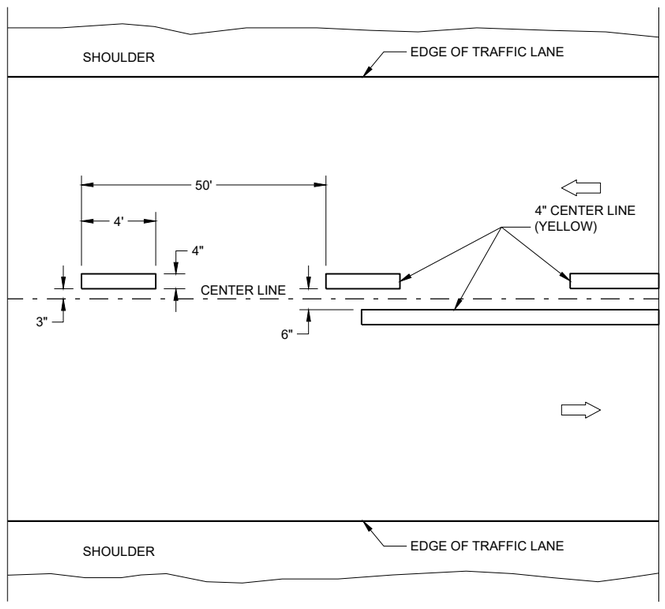
TEMPORARY BARRIER OFFSET FROM EDGELINE

GENERAL NOTES

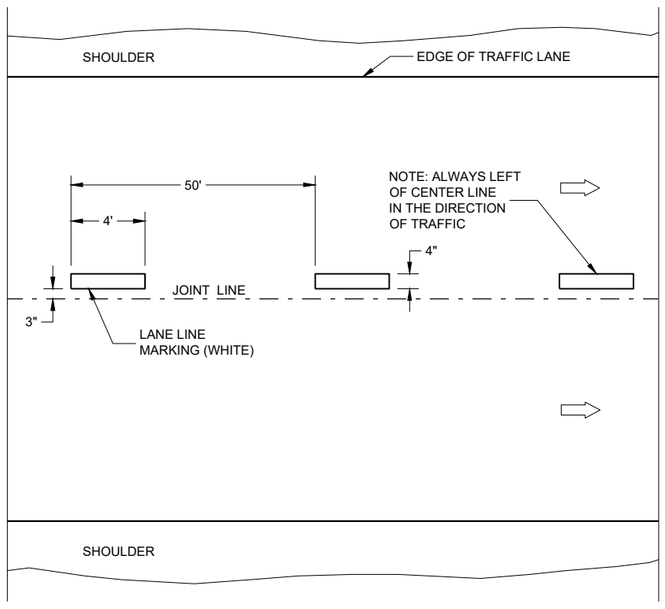
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

LEGEND

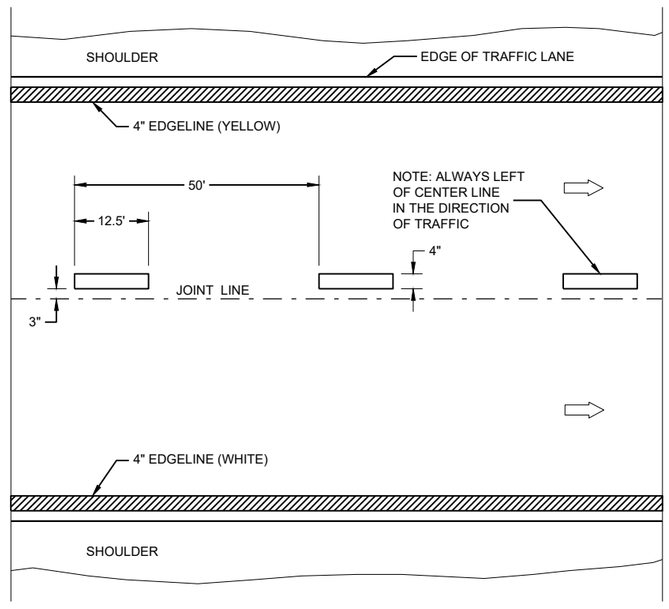
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

6

SDD 15C08 - 22b

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

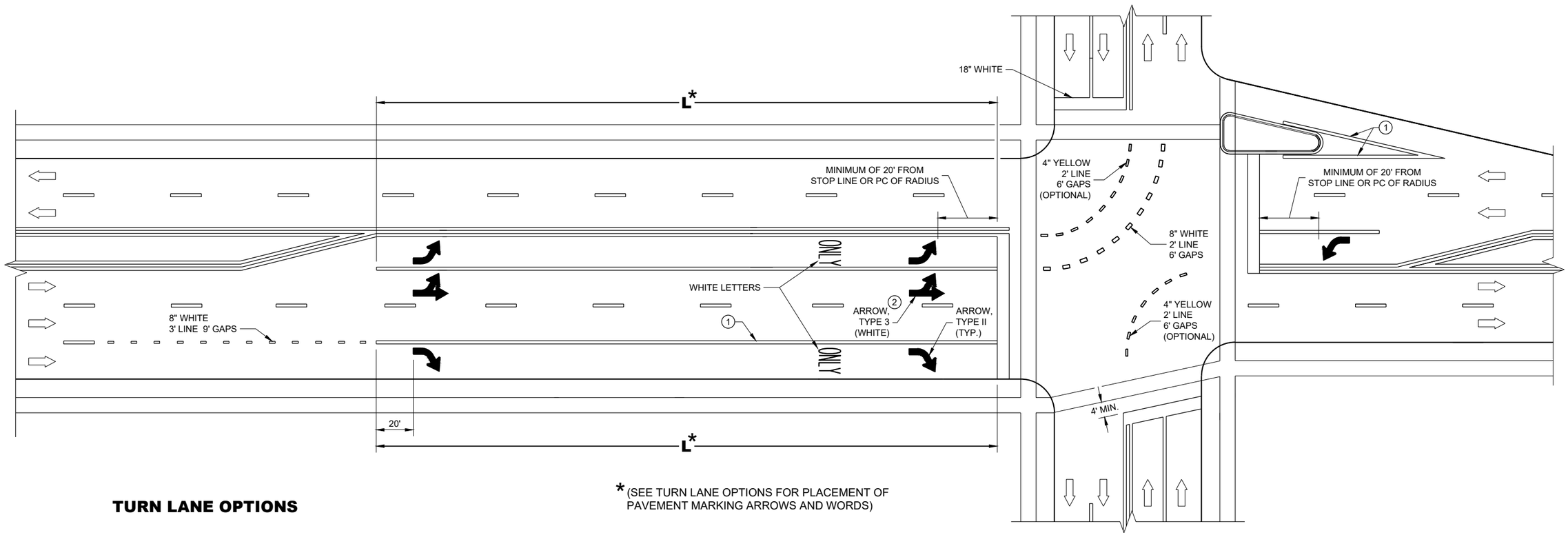
May 2022
DATE

/S/ Jeannie Silver
STATEWIDE SIGNING AND M
ENGINEER

FHWA

6

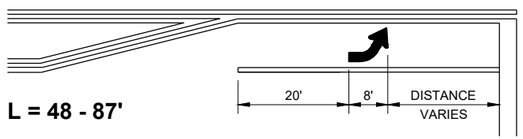
SDD 15C08 - 22b



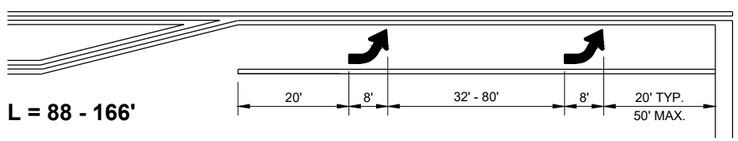
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

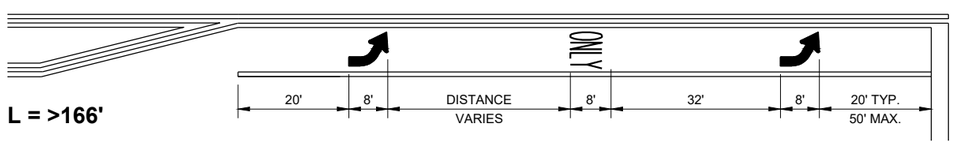
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



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)

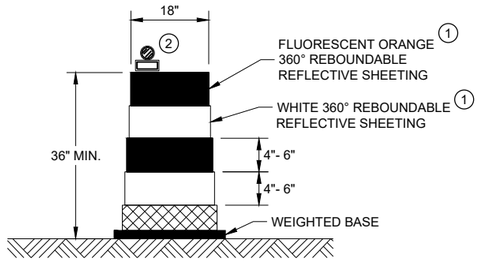
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08 - 22d

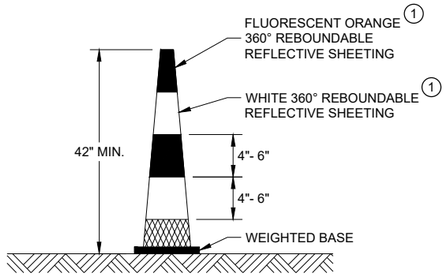
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

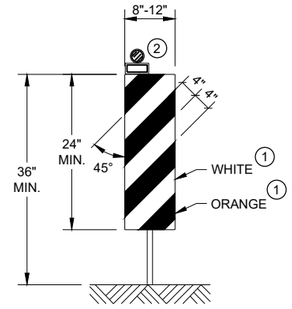
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

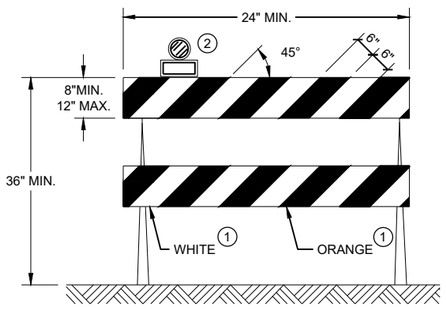
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



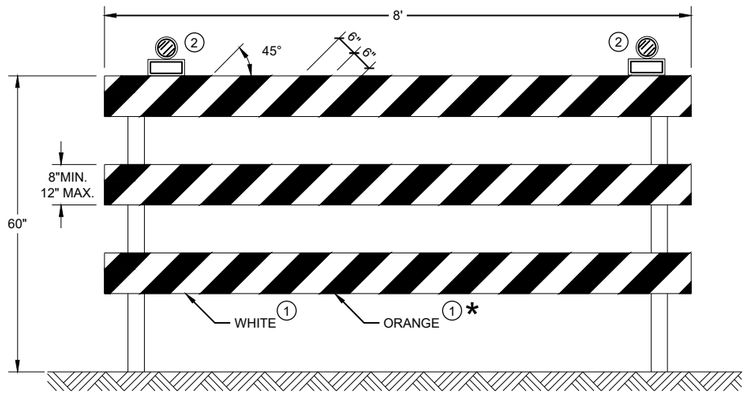
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 10b
SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

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

GENERAL NOTES

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

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

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

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

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

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

FLAGGING

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

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

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

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

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

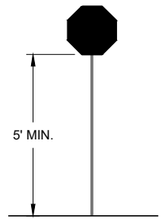
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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



STOP/SLOW PADDLE ON SUPPORT STAFF

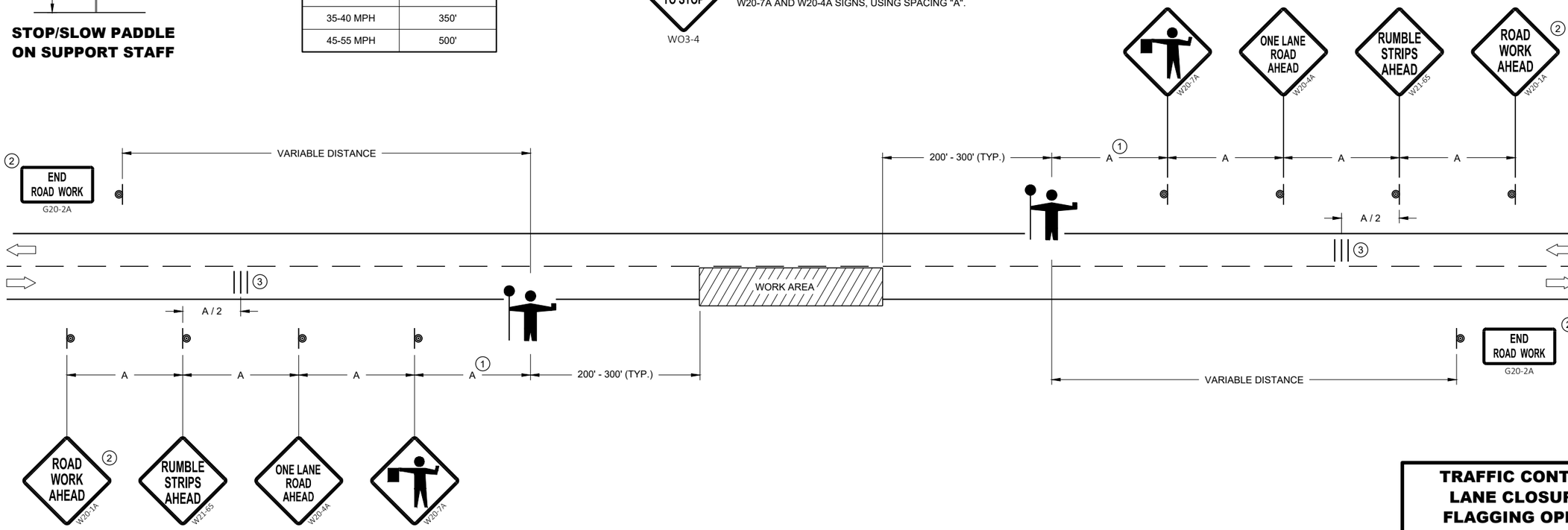
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



WO3-4

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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

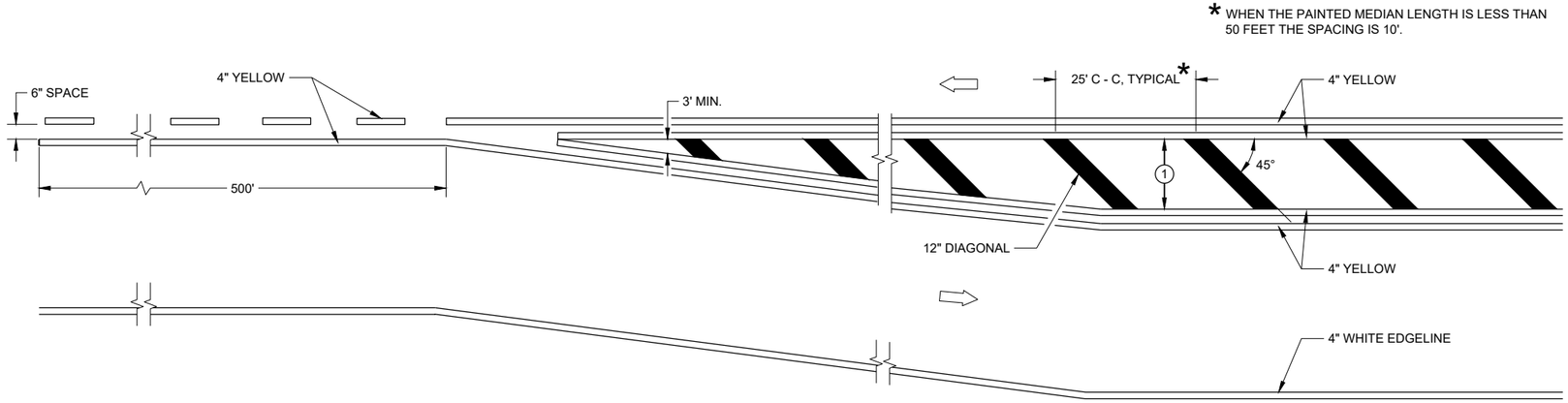
FHWA

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SDD 15C12 - 09a

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SDD 15C12 - 09a

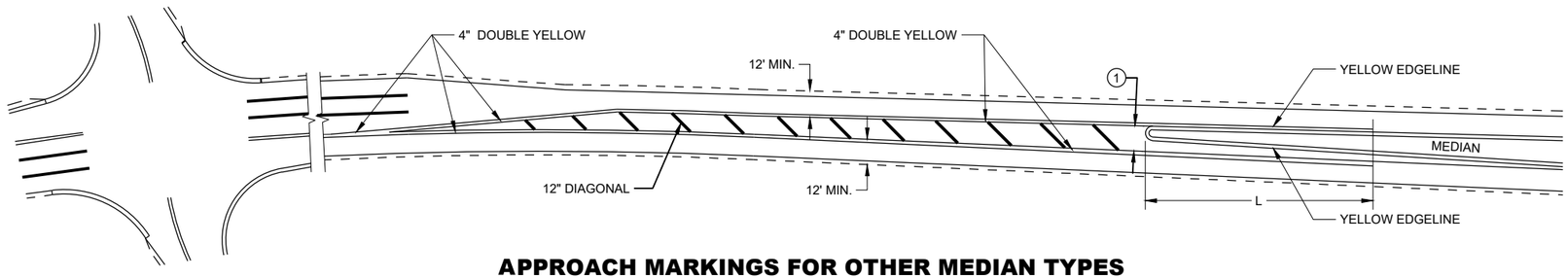


MEDIAN ISLAND DETAIL

GENERAL NOTES

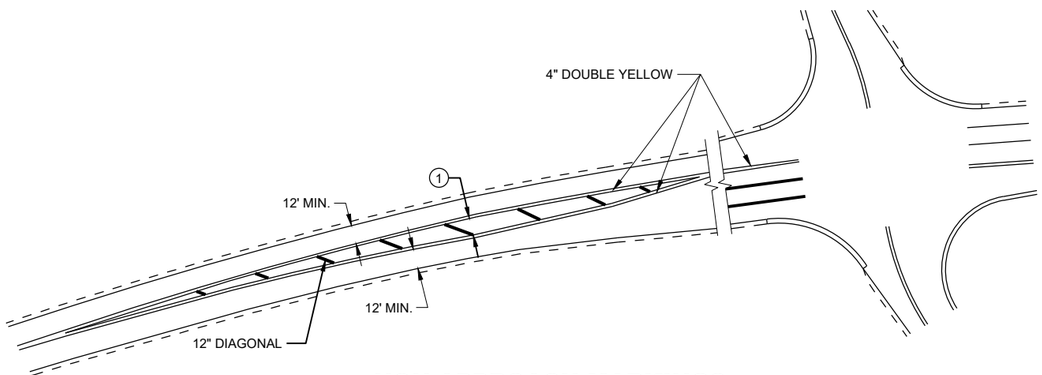
1. DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES

SPEED LIMIT	L
<35 MPH	5'
35> MPH	50'



NON-APPROACH MARKINGS

6

SDD 15C18 - 07a

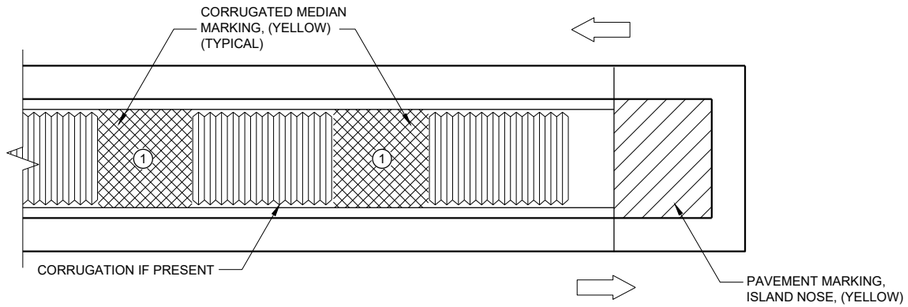
MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

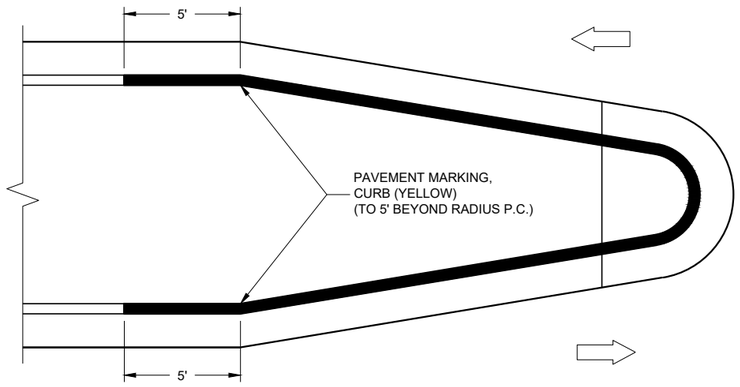
APPROVED
November 2022 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MAF ENGINEER
FHWA

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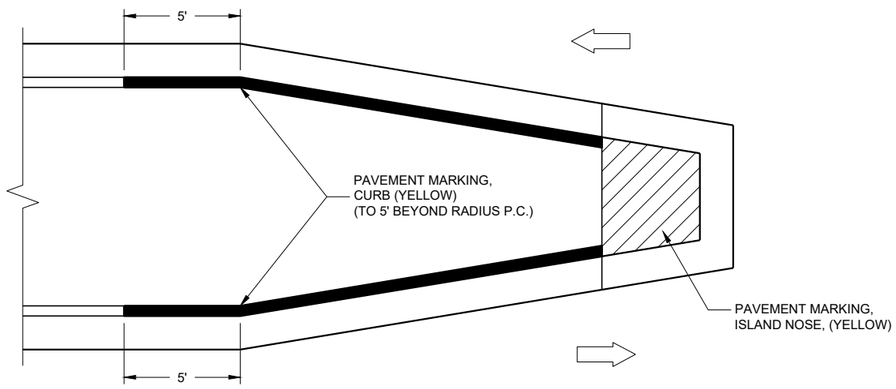
SDD 15C18 - 07a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2022
DATE

/S/ Jeannie Silver
STATE SIGNING AND MAR ENGINEER

FHWA

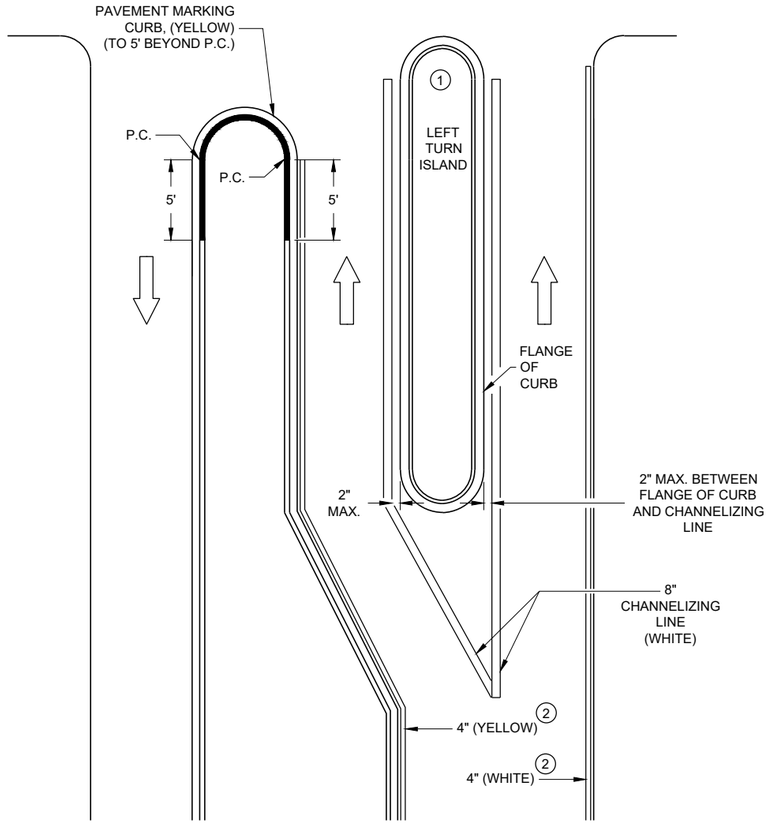
6

SDD 15C18 - 07b

6

SDD15C18 - 07b

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



LEFT TURN & MEDIAN ISLAND

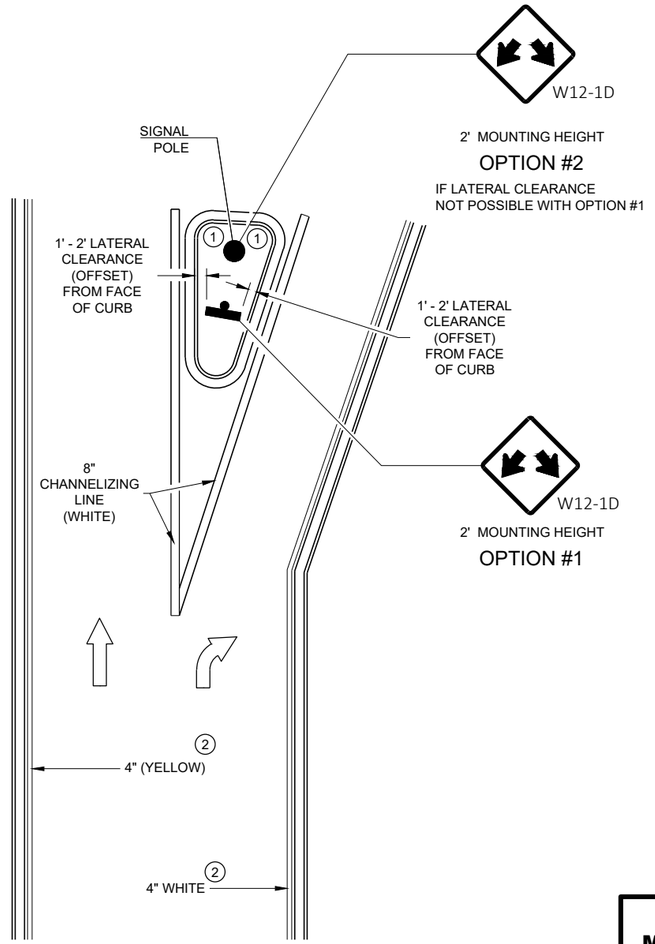
GENERAL NOTES

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

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE
/S/ Jeannie Silver
STATE SIGNING AND MAF ENGINEER

FHWA

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SDD 15C18 - 07c

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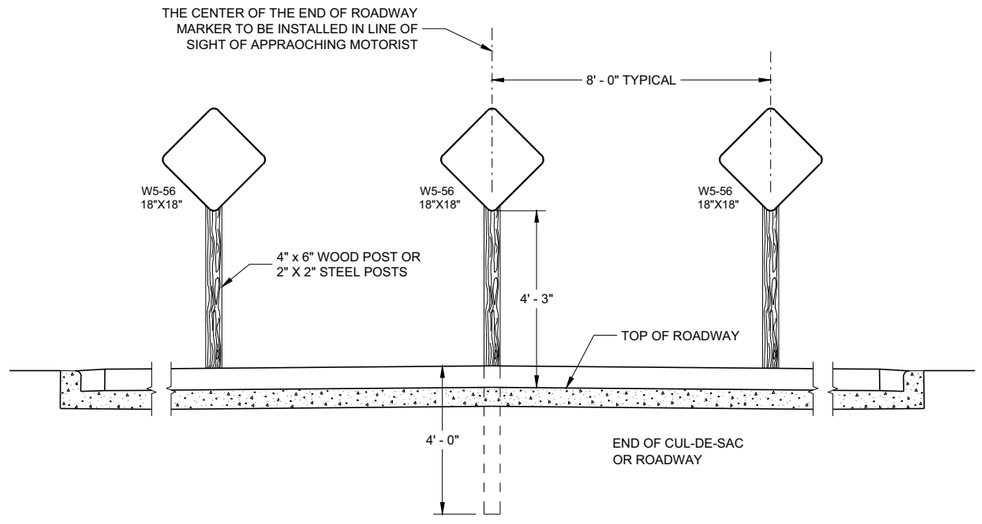
SDD 15C18 - 07c

GENERAL NOTES

SIGN LOCATIONS SHOWN ARE TYPICAL PLACEMENT AND MAY BE ADJUSTED BY THE ENGINEER AS FIELD CONDITIONS DICTATE.

THE MINIMUM NUMBER OF END-OF-ROADWAY SIGNS ARE THREE (AS SHOWN). ADDITIONAL END-OF-ROADWAY SIGNS MAY BE INSTALLED AS FIELD CONDITIONS DICTATE. (SEE SIGNING PLAN).

WHEN BEAMGUARD IS REQUIRED, PLACE END-OF-ROADWAY SIGNING BEHIND BEAMGUARD.



TYPICAL SIGN INSTALLATION

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SDD 15C26 - 04

SDD 15C26 - 04

END-OF-ROADWAY SIGNING

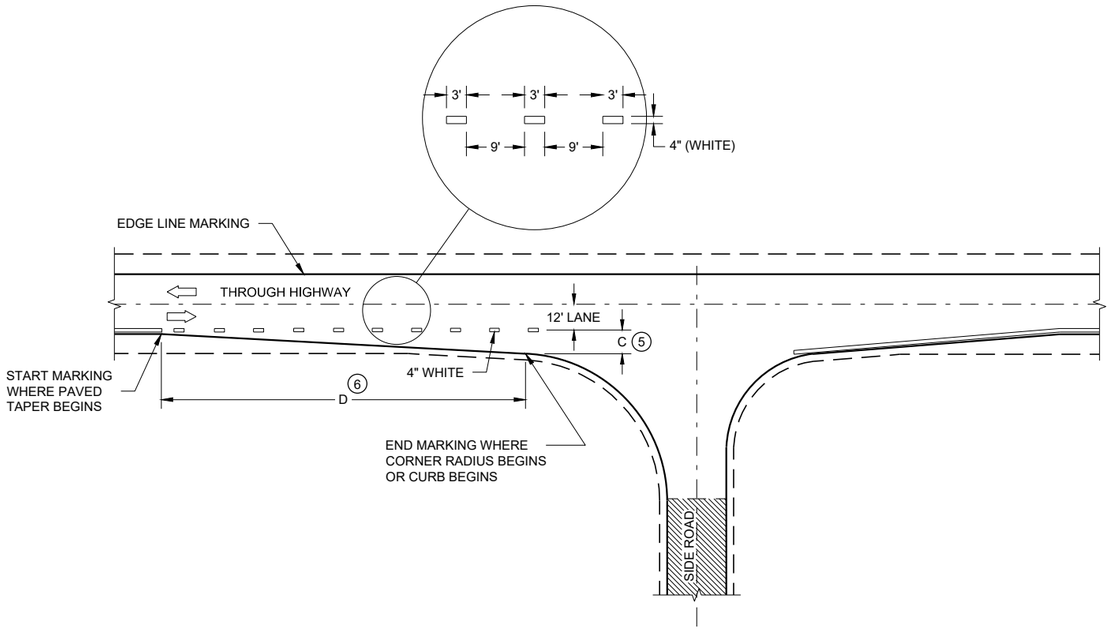
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

FHWA



MINOR INTERSECTION

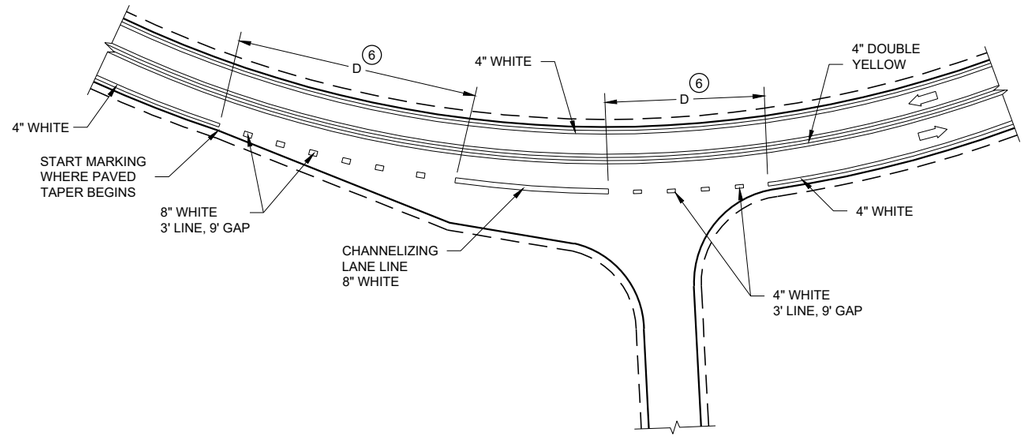
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

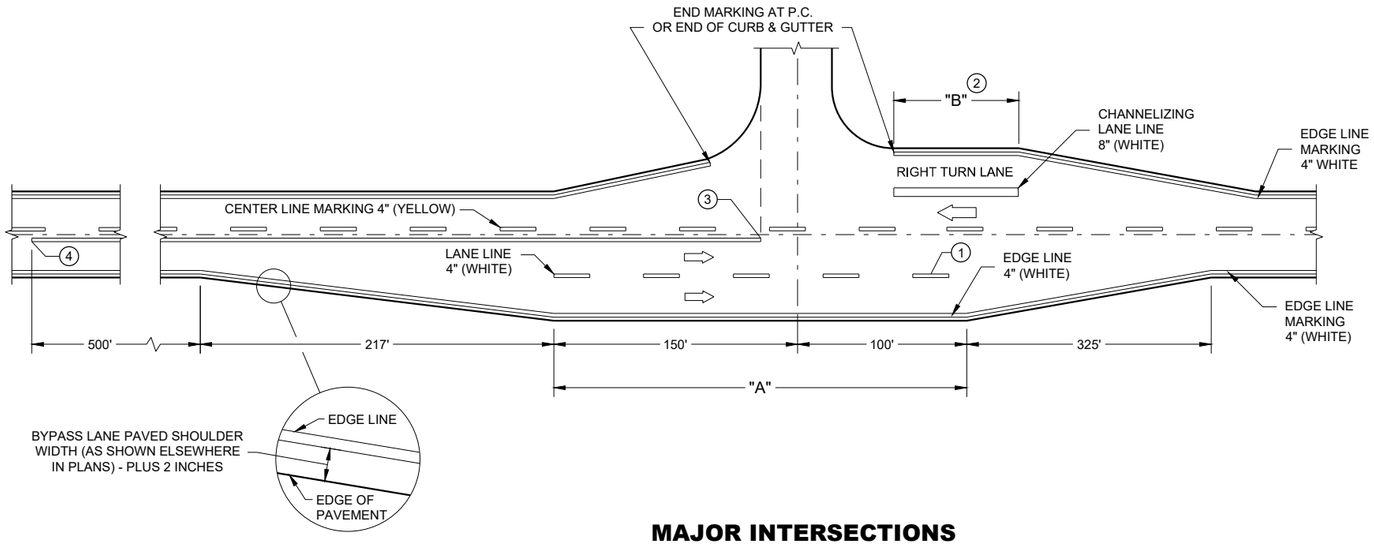
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

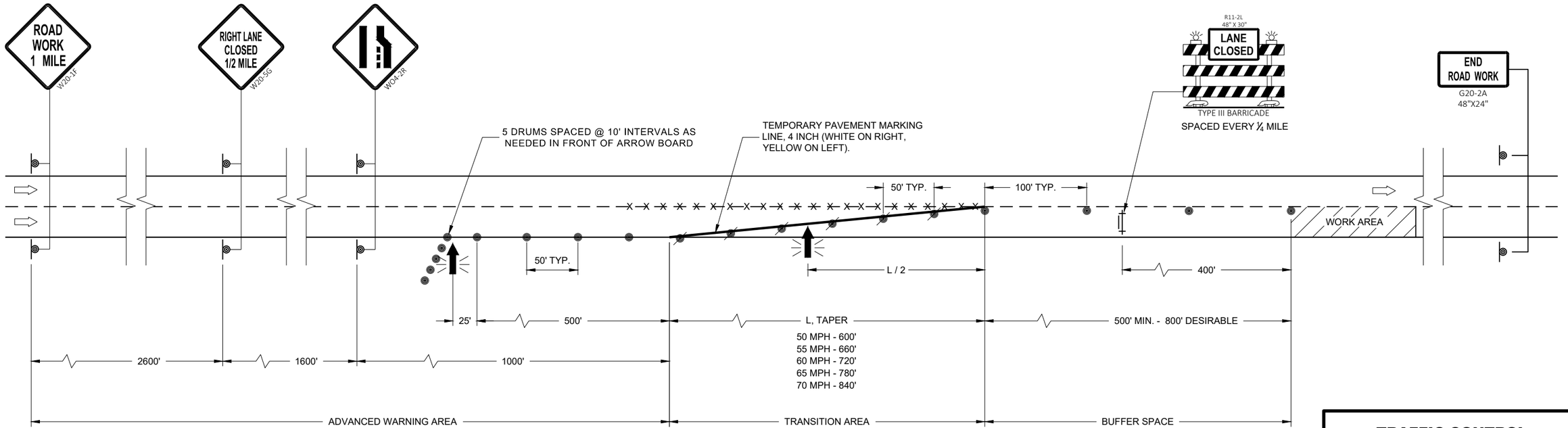
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D12 - 10a

6

SDD 15D12 - 10a

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH 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.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

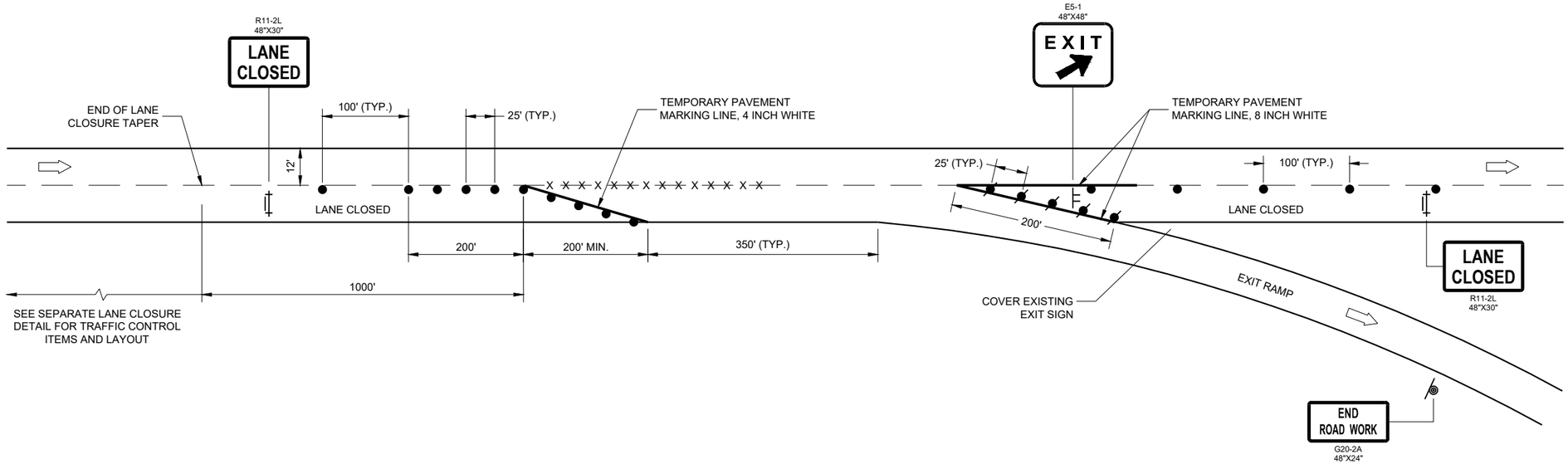
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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.

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.



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SDD 15D15 - 06e

SDD15D15 - 06e

TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

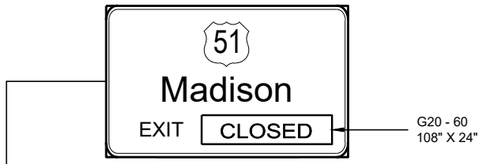
PLACE TEMPORARY PAVEMENT MARKING LINE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

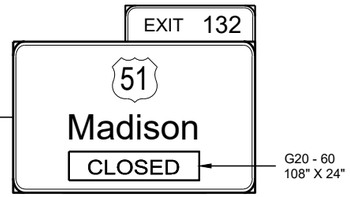
WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

(1) W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

(2) PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



OR

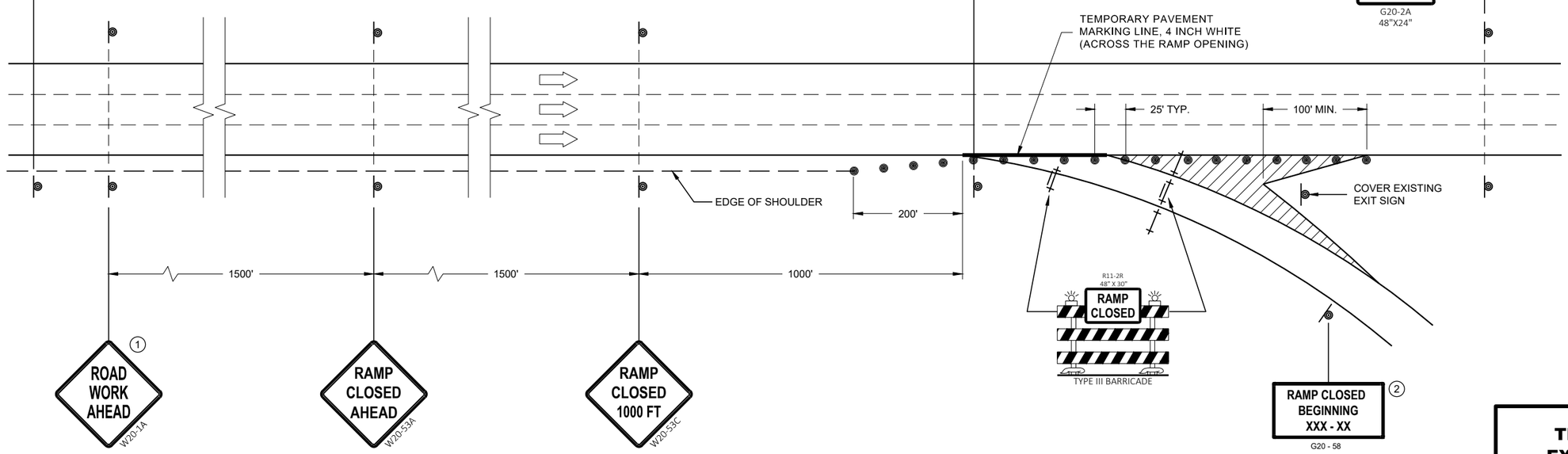


PLACE SIGN G20 - 60 OVER MILEAGE ON EXISTING E1 - 1A SIGN



COVER ARROW ON EXISTING E4 - 1 SIGN (COVERING SIGNS TYPE I)

G20 - 61
120 ' X 30"



OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 15D16 - 05

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.

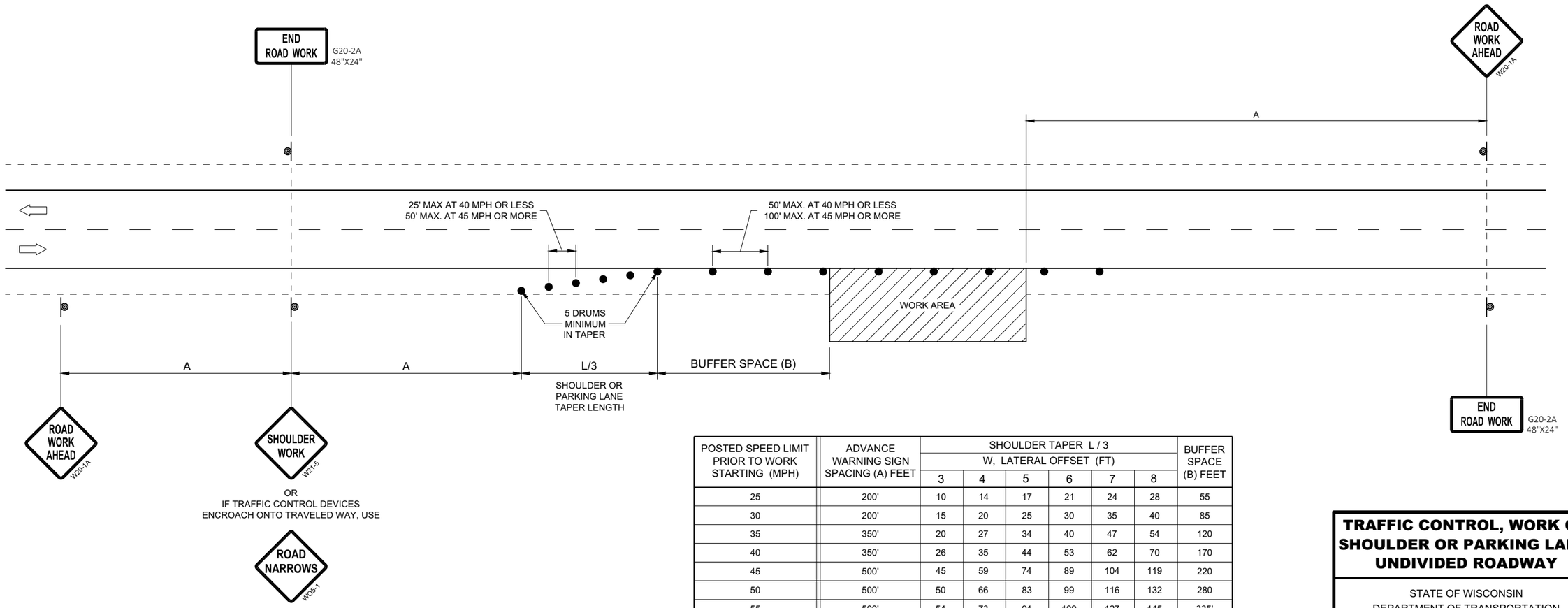
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

SDD 15D28 - 04

SDD 15D28 - 04

GENERAL NOTES

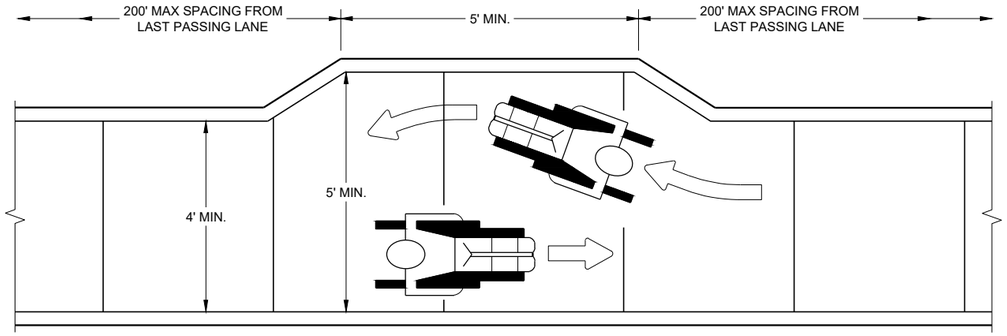
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

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

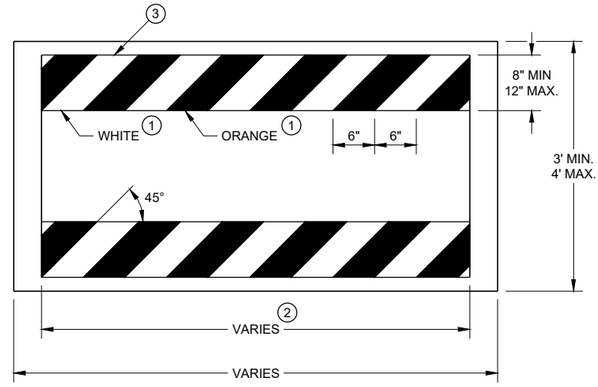
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

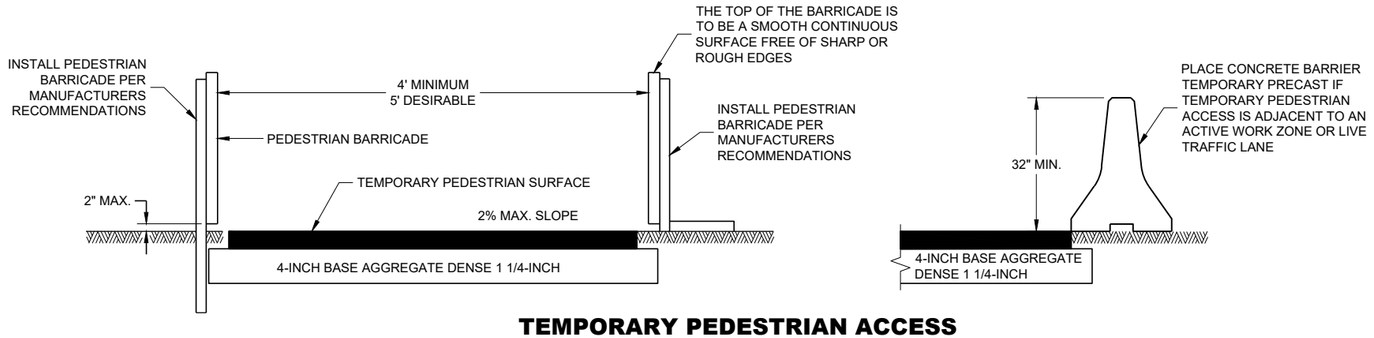
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*



TEMPORARY PEDESTRIAN ACCESS

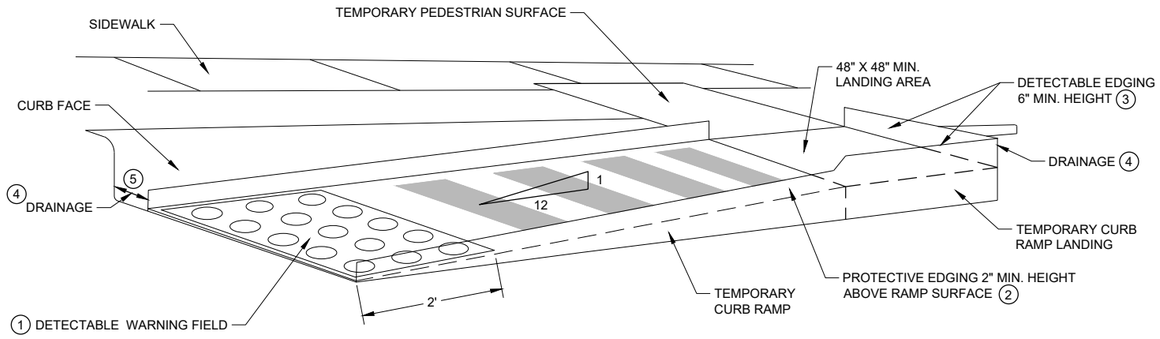
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SDD 15D30 - 08a

SDD 15D30 - 08a

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

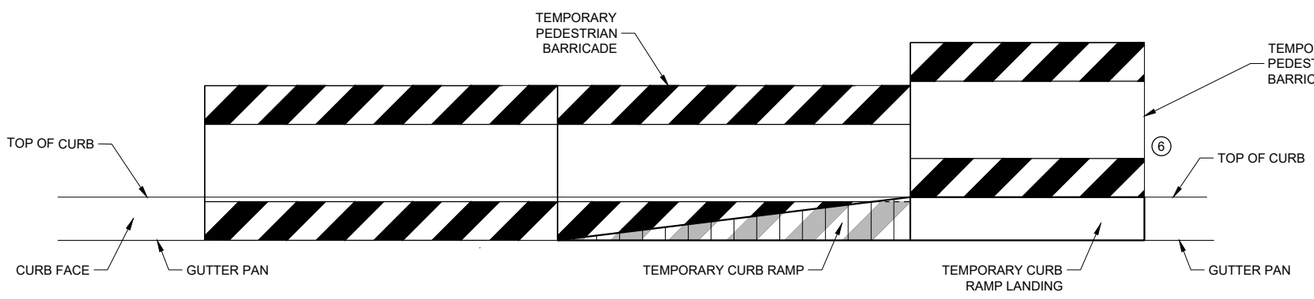
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

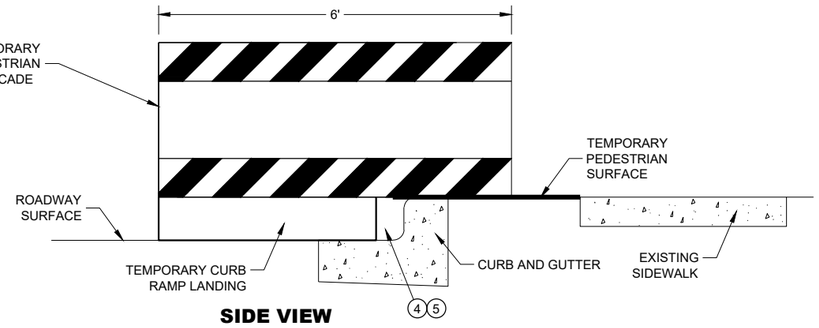
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

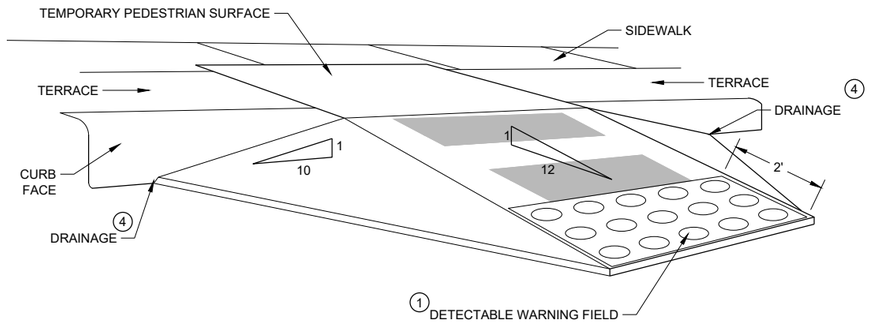
TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

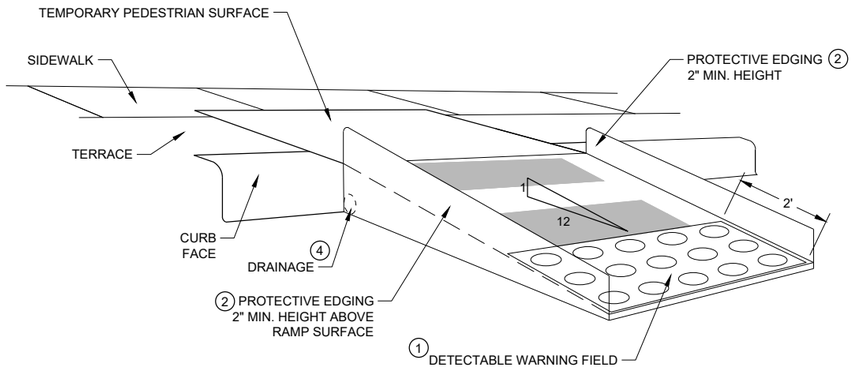
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 08b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

GENERAL NOTES

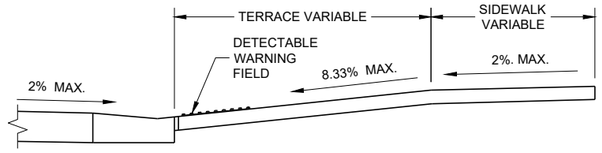
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

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

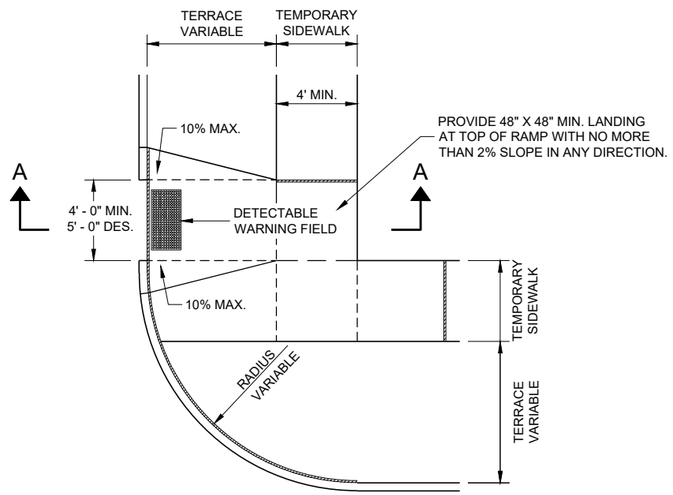
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D30-08d

LEGEND

SIGN ON TEMPORARY SUPPORT

WORK AREA

UNDER PEDESTRIAN TRAFFIC

TEMPORARY PEDESTRIAN SURFACE

TEMPORARY PEDESTRIAN BARRICADE

OPTIONAL TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

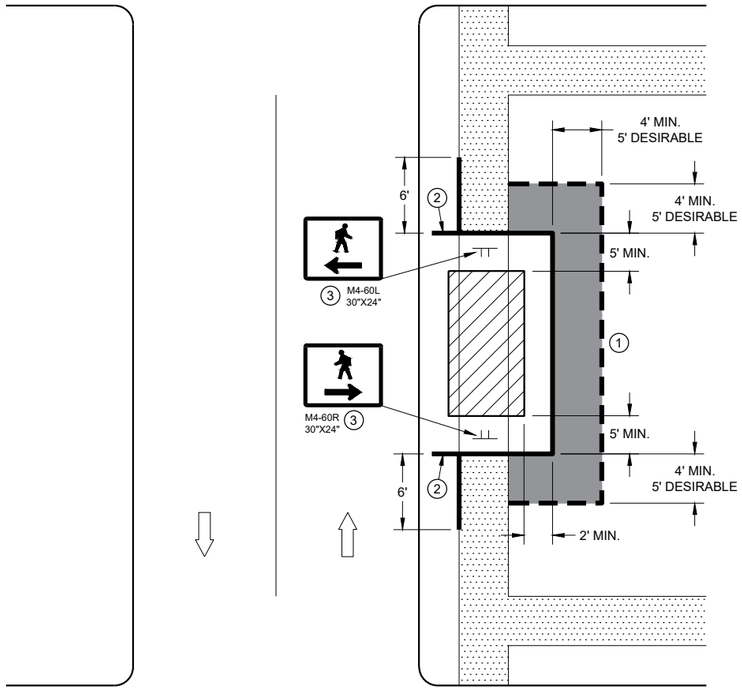
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

(1) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(2) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

6

SDD 15D30 - 08g

6

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TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

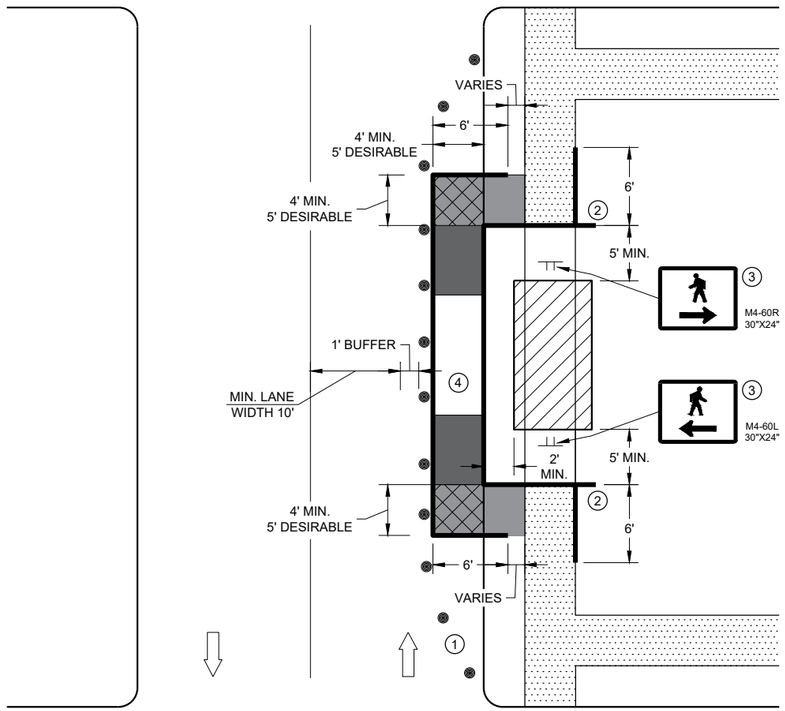
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.

(2) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

(4) USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



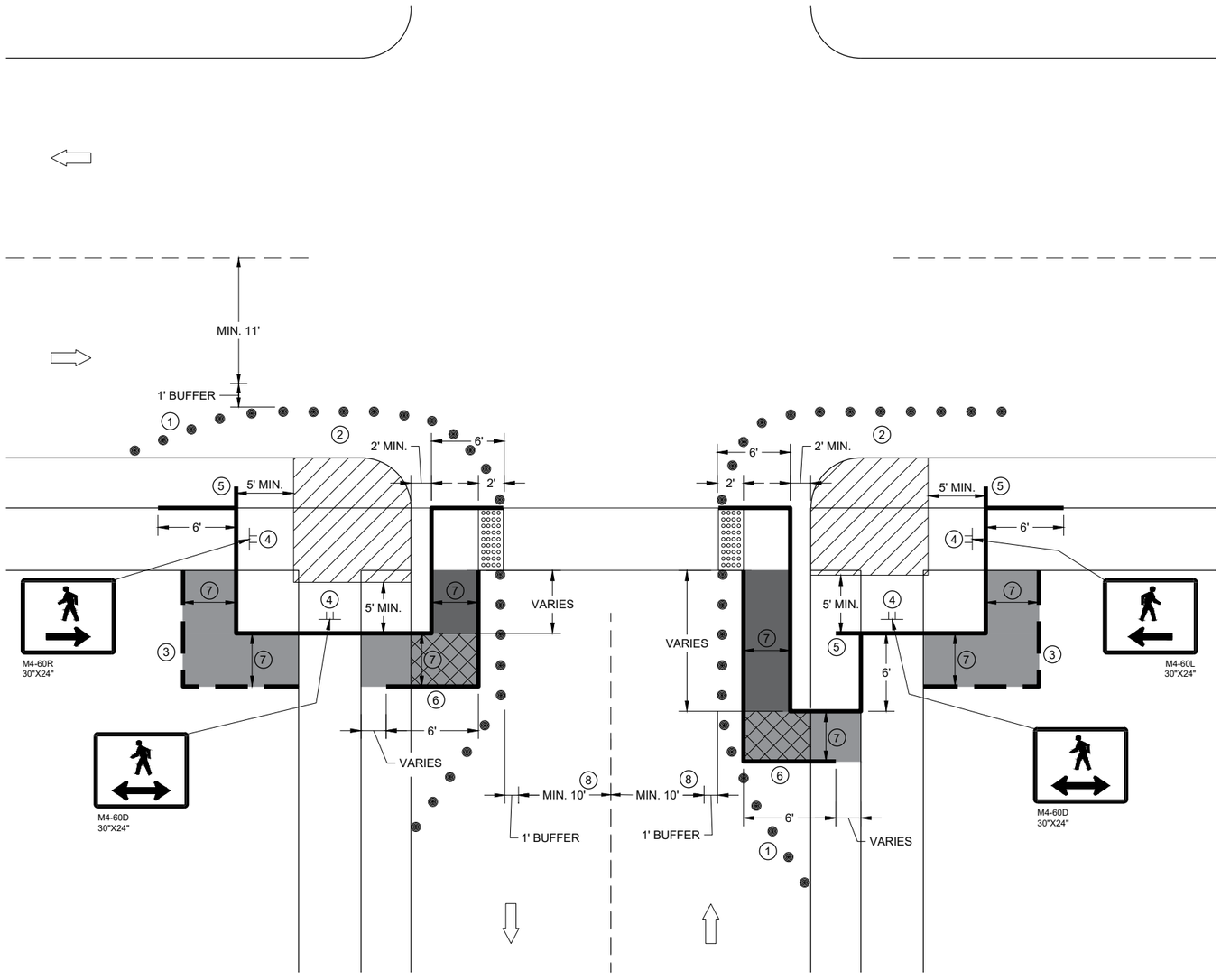
SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 08h



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

6
SDD 15D30 - 08i

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)				
	10	11	12	13	14
50	250	275	300	325	350
55	275	303	330	358	385
60	300	330	360	390	420
65	325	358	390	423	455
70	350	385	420	455	490

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

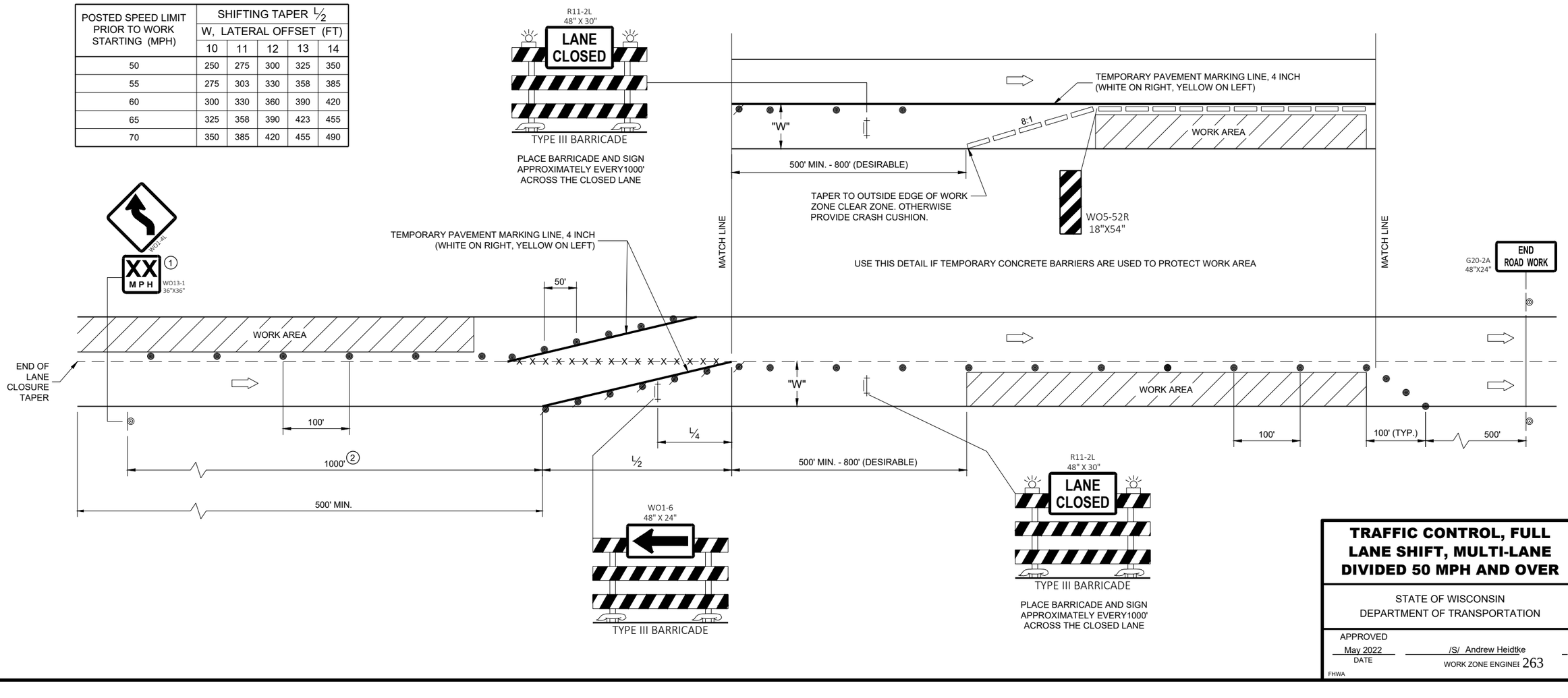
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ½ THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) IF BEGINNING OF LANE SHIFT IS 1200' OF LESS FROM THE END OF THE LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.



TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D40 - 04b

SDD 15D40 - 04b

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

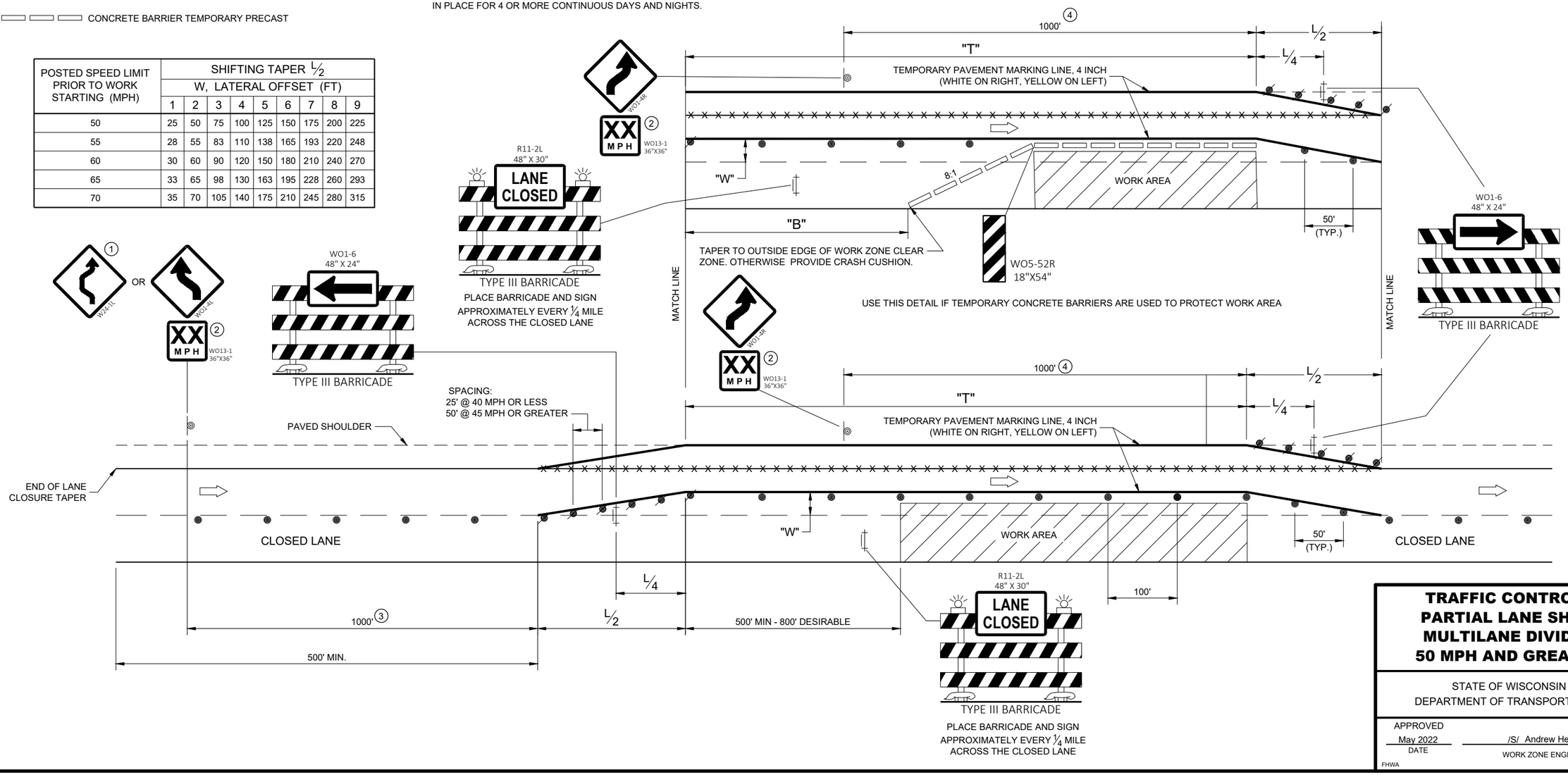
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

1. USE ONLY WHEN T<600', OMIT WO1-4R.
2. IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.
3. IF THE BEGINNING OF LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.
4. IF THE BEGINNING OF THE SECOND LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF THE FIRST LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE FIRST LANE CLOSURE TAPER.



TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D40 - 04d

SDD 15D40 - 04d

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- 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.

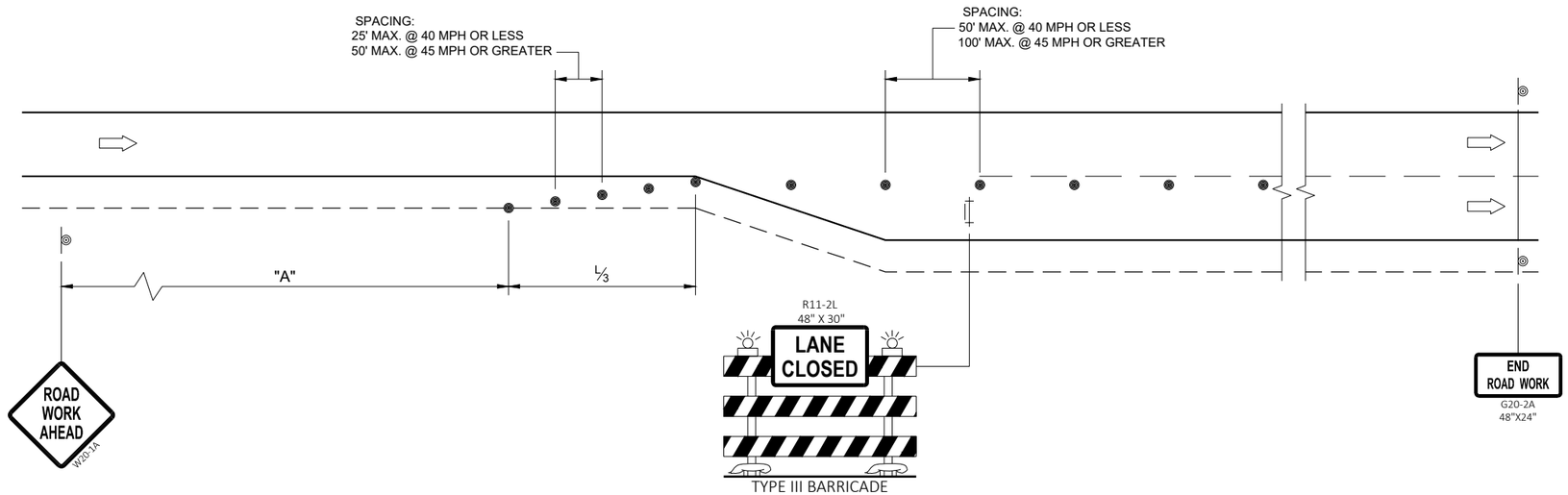
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

6

6

SDD 15D50 - 02a

SDD 15D50 - 02a

TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

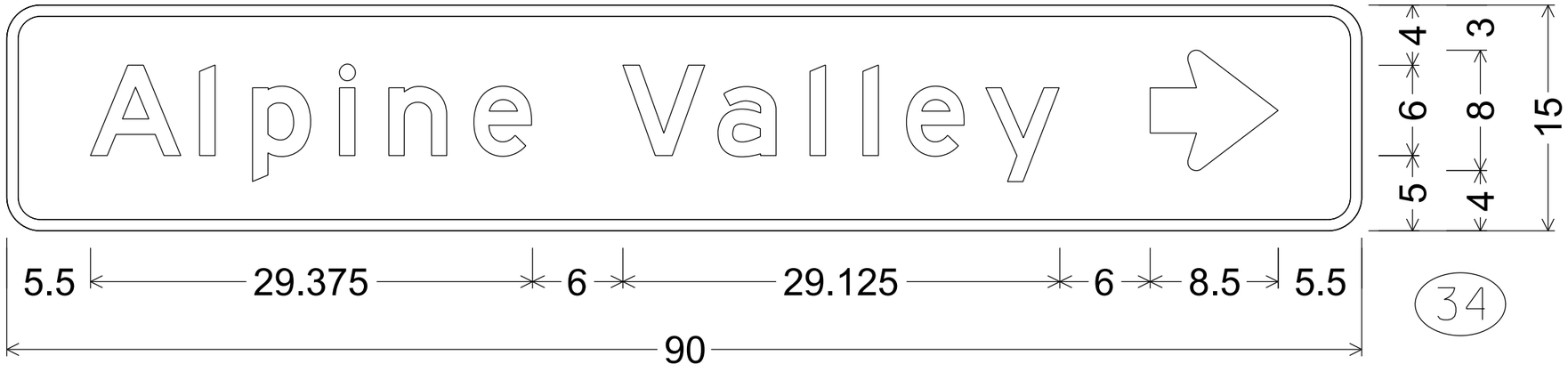
APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

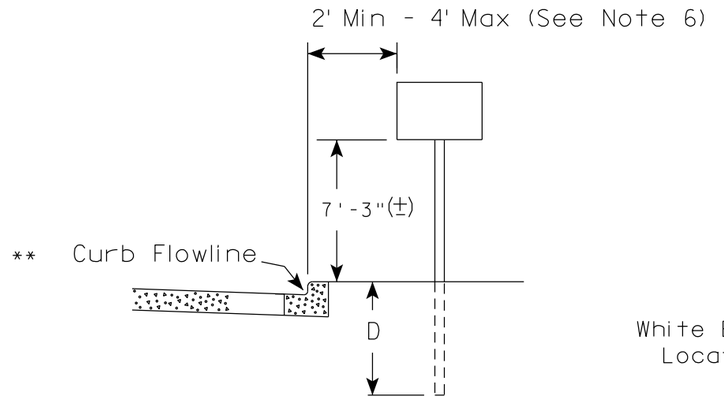
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E

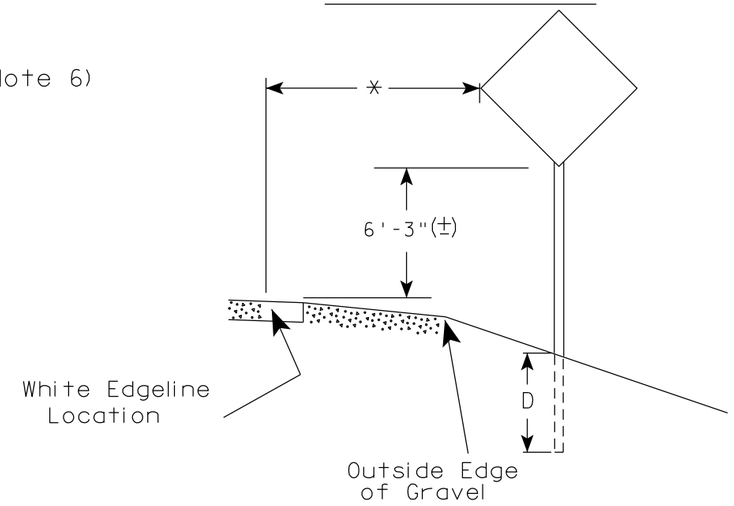


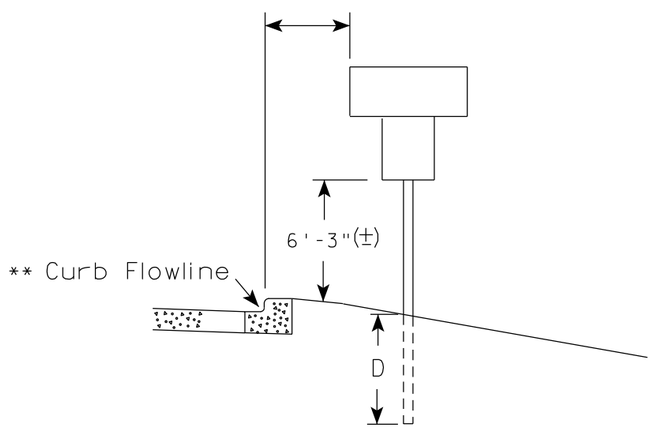
D1-1; 2.250" Radius, 0.750" Border

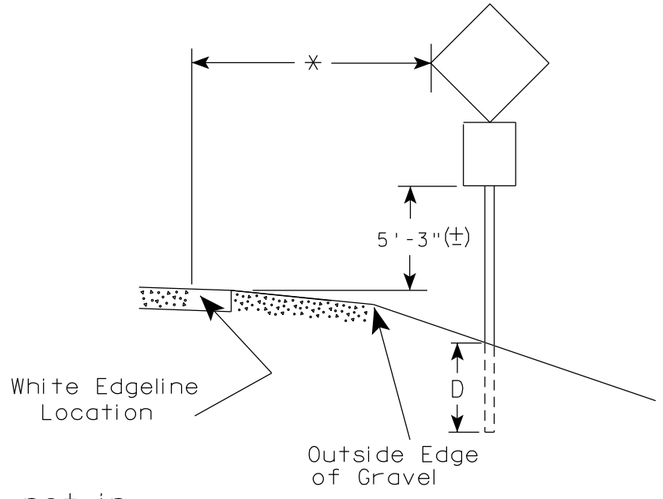
URBAN AREA



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.

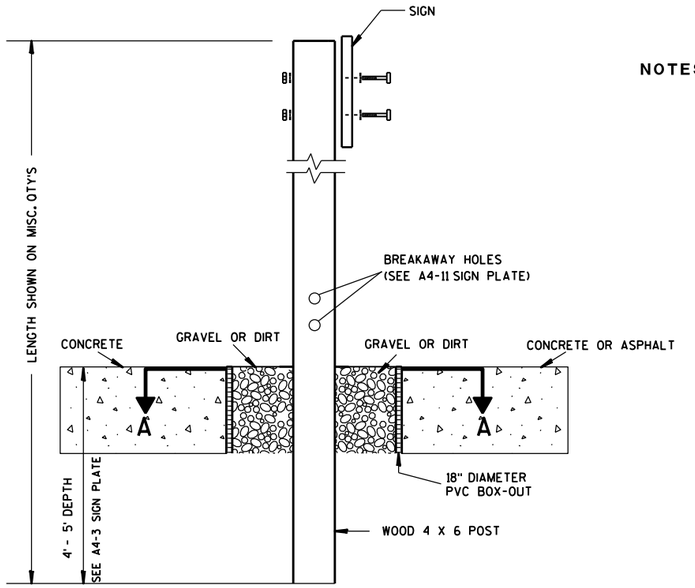
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

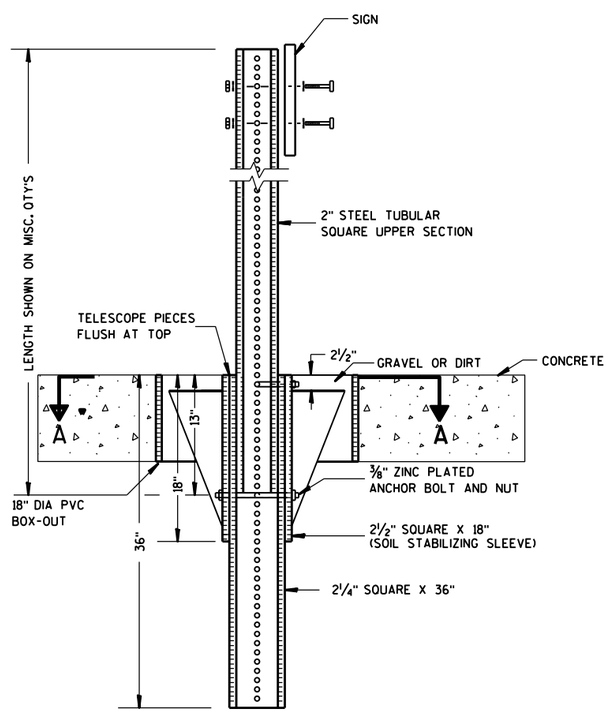
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 267	E



ELEVATION VIEW

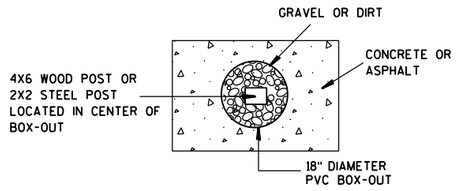
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

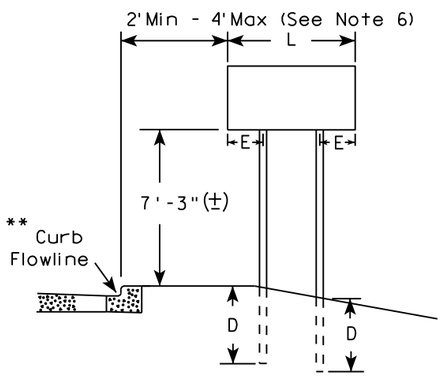
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

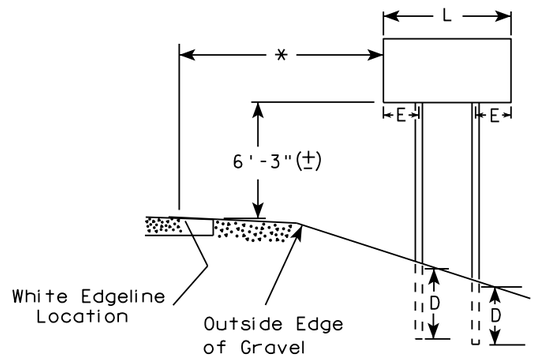
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

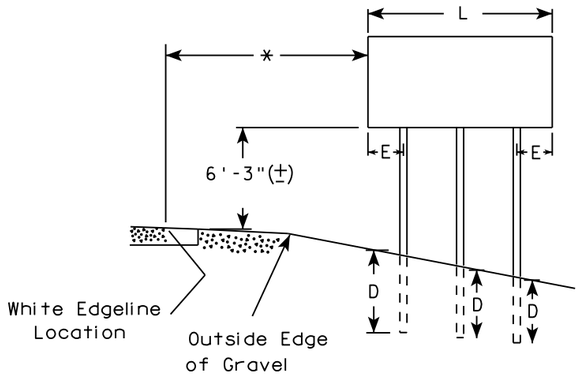
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

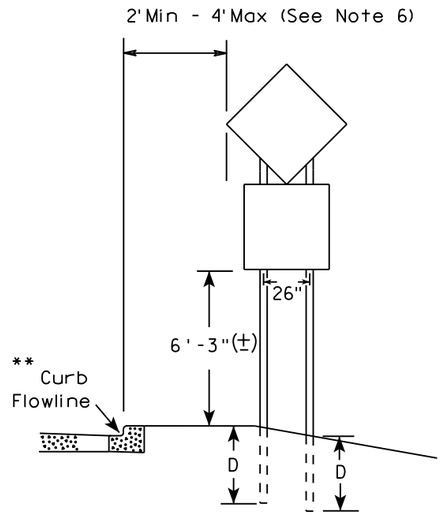
URBAN AREA



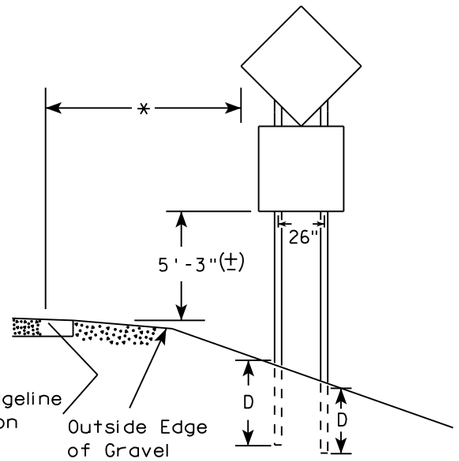
RURAL AREA (See Note 3)







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

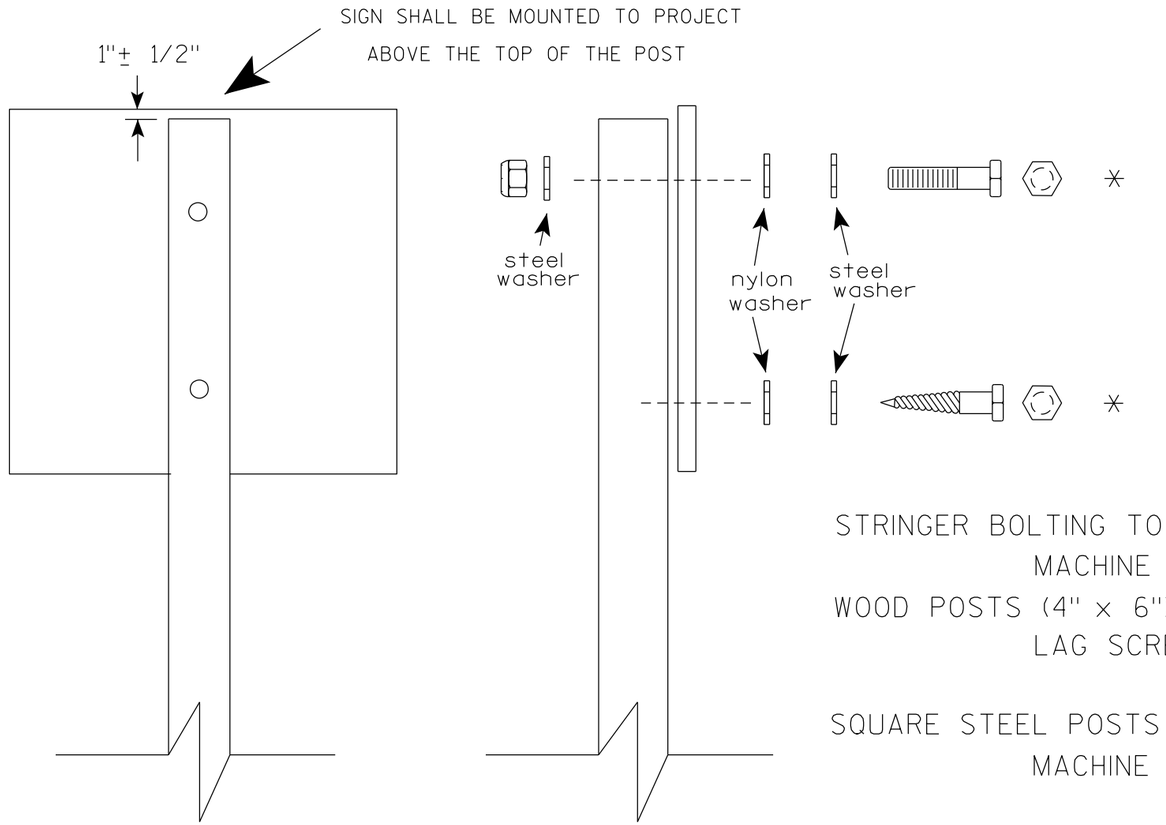
7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 269 | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 21-AUG-2017 15:54 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

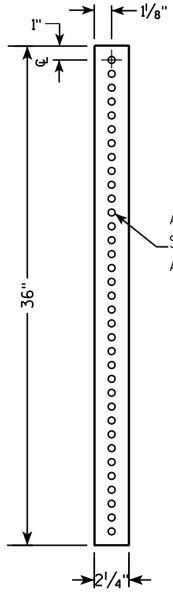
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

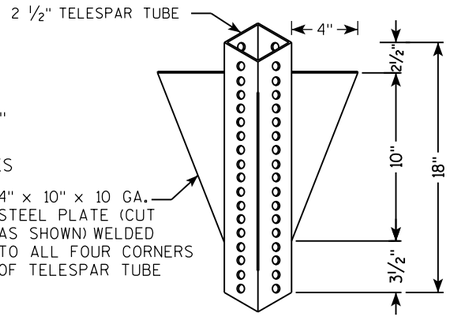
SHEET NO: 270 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

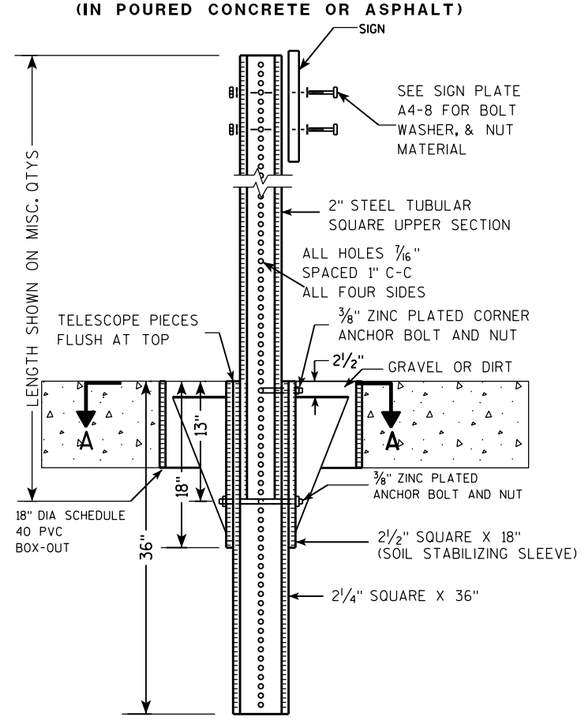
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



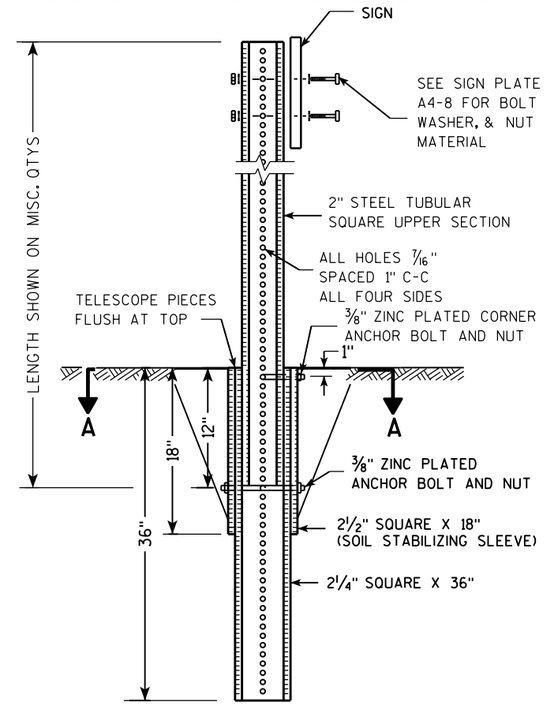
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

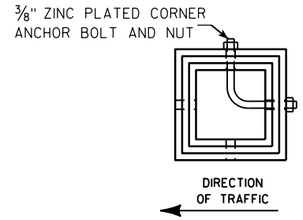


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

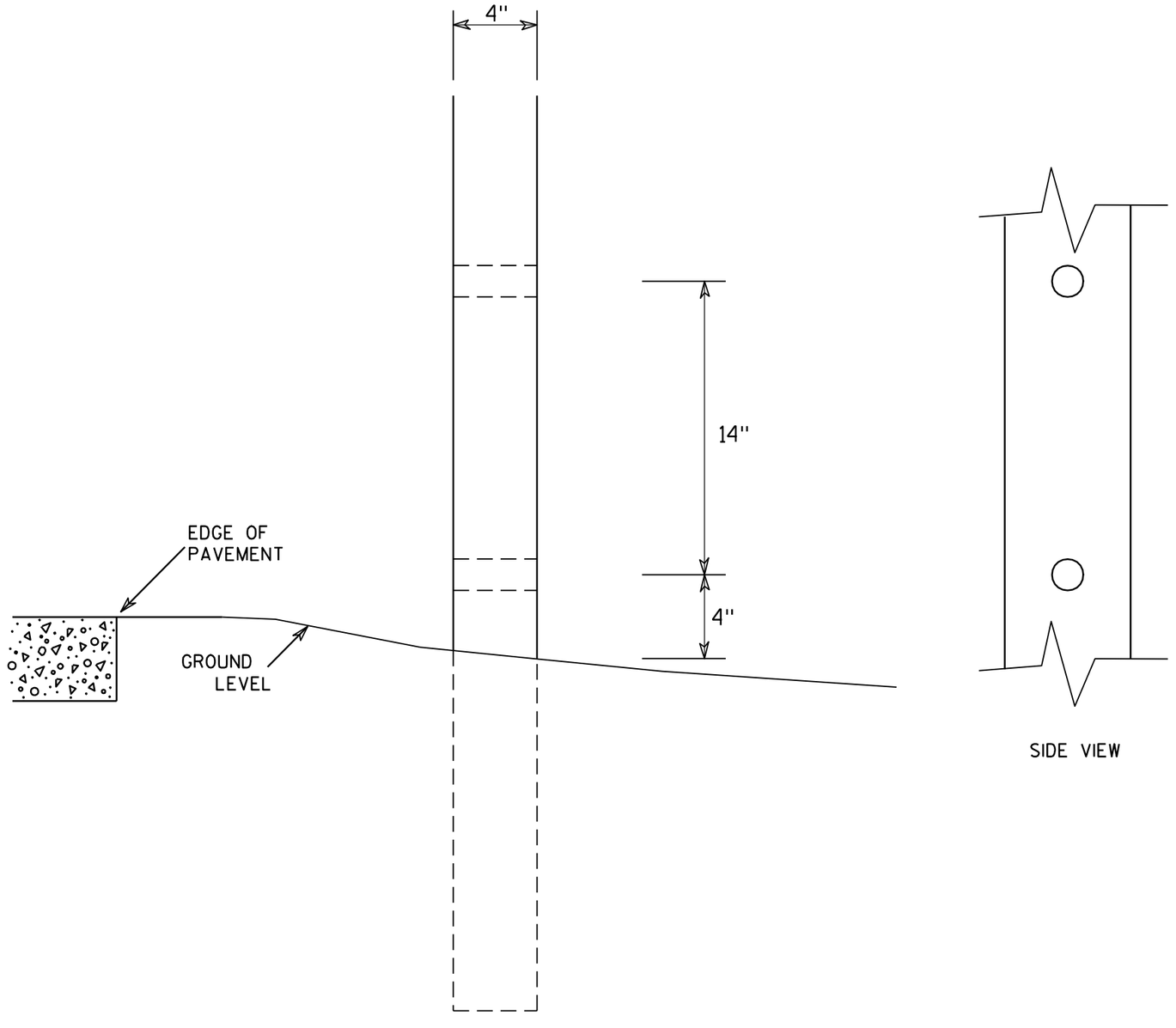
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 271 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

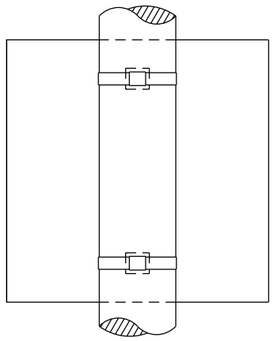
APPROVED Chester J Spang for State Traffic Engineer

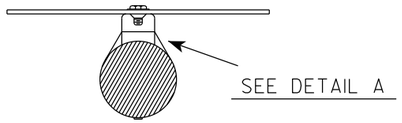
DATE 3/27/97 PLATE NO. A4-11.2

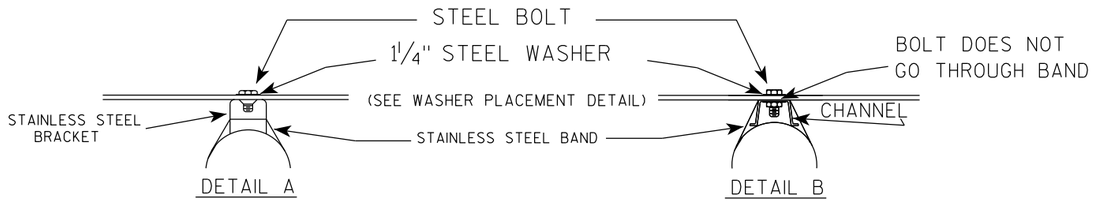
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 272	E

BANDING

SINGLE SIGN



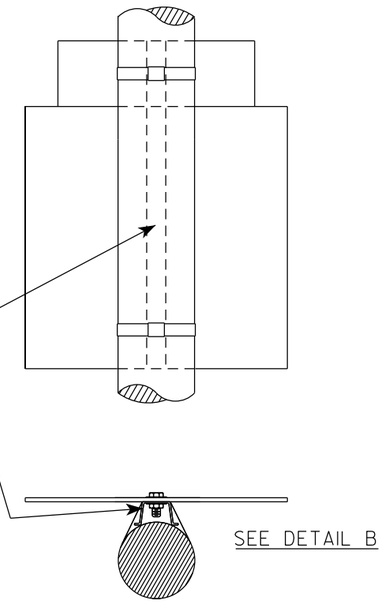




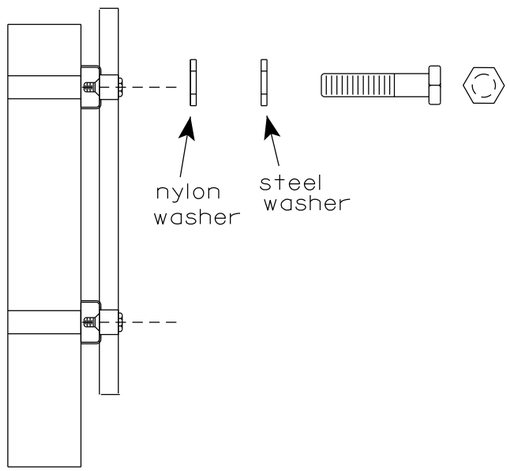
GENERAL NOTES

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



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

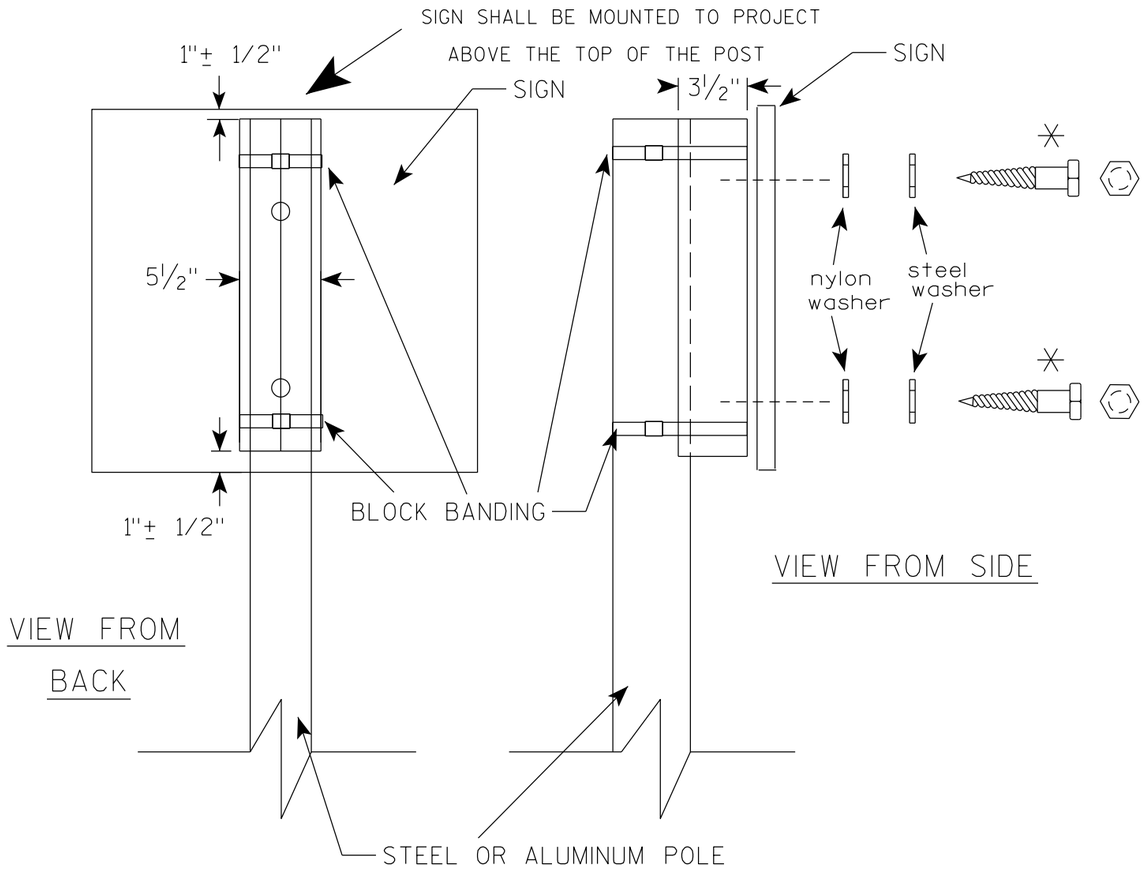
DATE 6/10/19 PLATE NO. A5-9.4

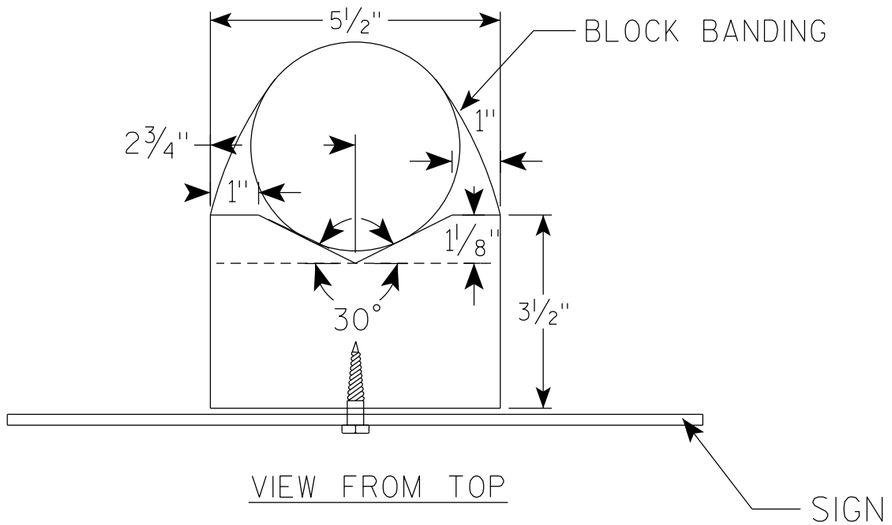
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 273	E

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

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GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

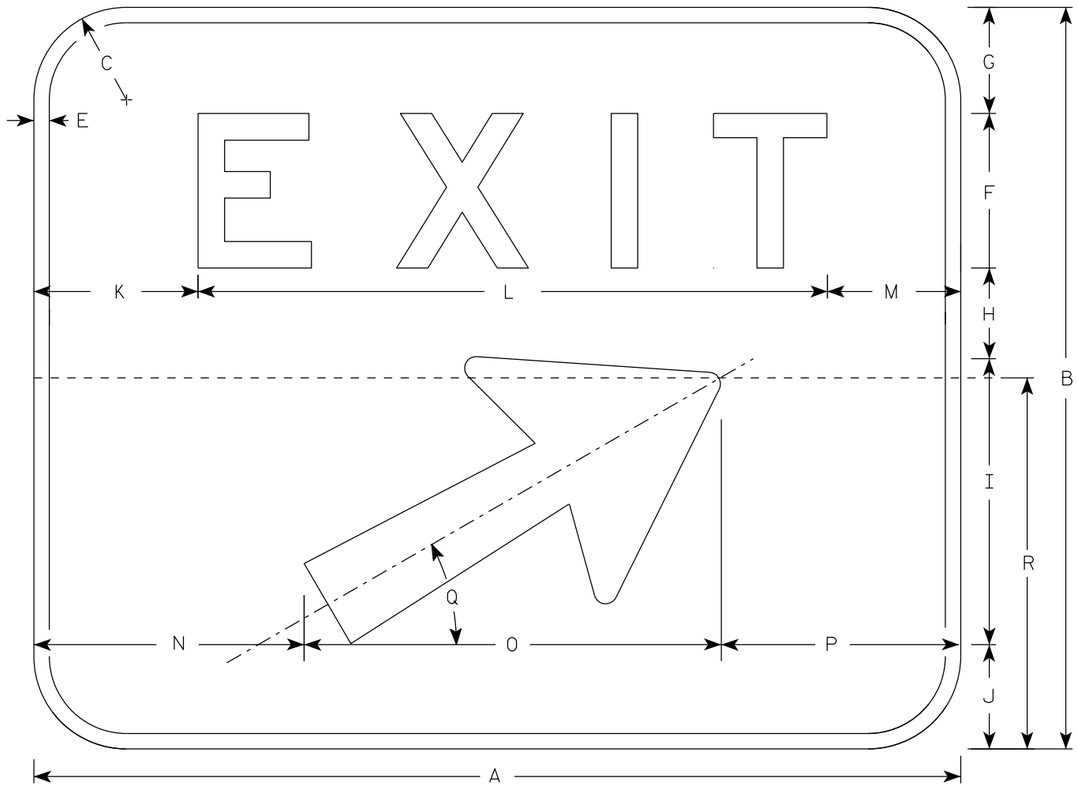
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 274 E



E5-1

NOTES

1. Sign is Type II - Type H reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E
4. Sign shall be split into two seperate pieces as shown on the detail by the dashed line (----------) for sizes 4 & 5.
5. Arrow is Type "A" from sign plate A1-1.
6. As per the Standard Spec's, this sign shall not have a vertical joint.
7. Size 3 E5-1 shall only be used in a Work Zone application with a Temporary Sign Support

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																											
3	48	48	6		1	10	6 7/8	5 7/8	18 1/2	6 3/4	8 1/2	31 1/8	8 3/8	11 1/2	27	9 1/2	30°	30									16.0
4	60	48	6		1	10	6 7/8	5 7/8	18 1/2	6 3/4	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°	30									20.0
5	72	60	6		1	12	9 3/4	10	18 1/2	9 3/4	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°	30									30.0

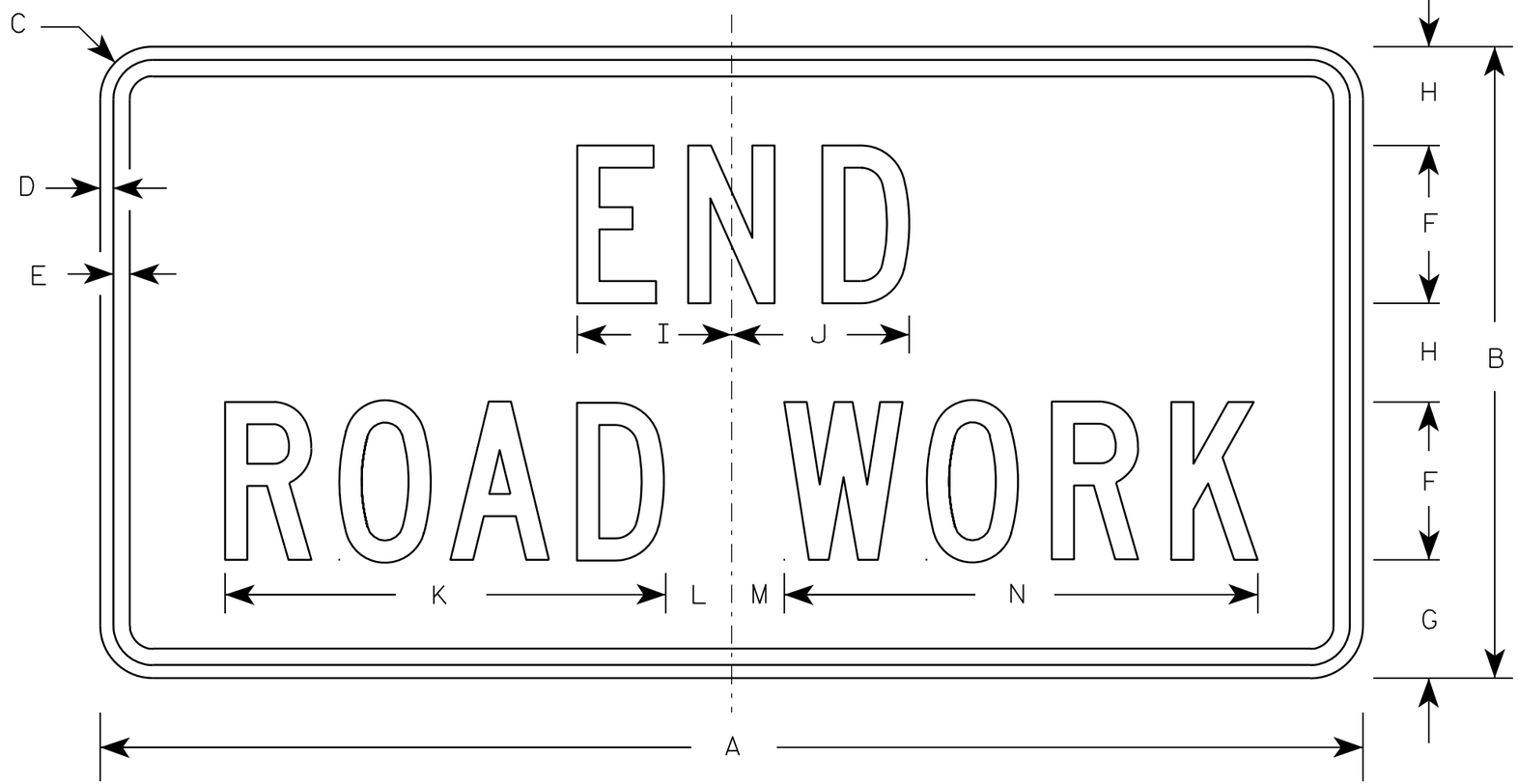
STANDARD SIGN
E5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2022 PLATE NO. E5-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 275 | 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

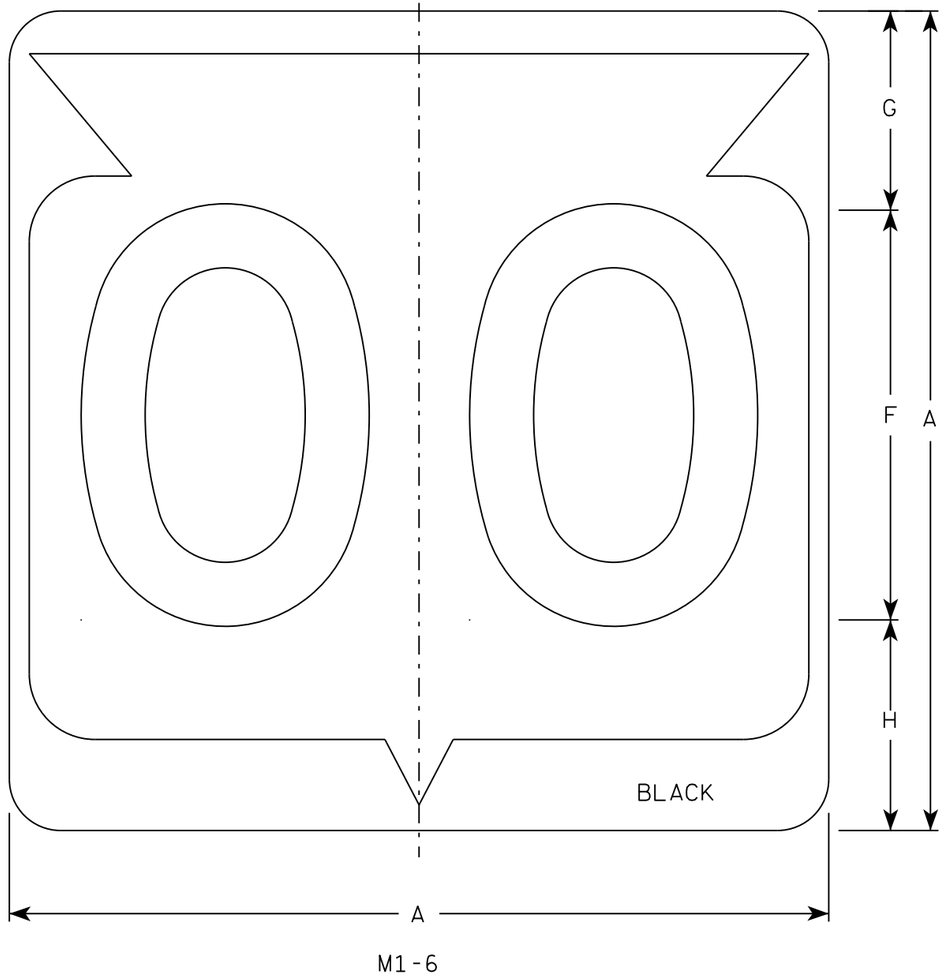
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

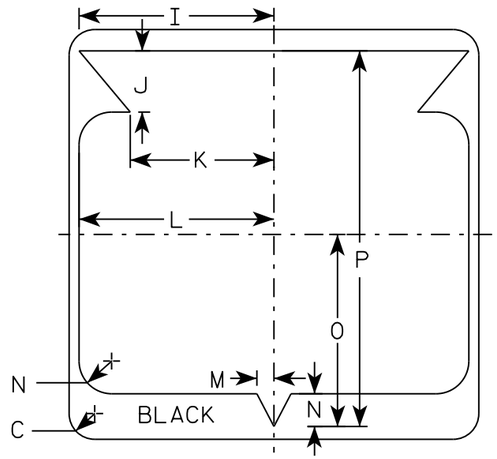
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 276	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

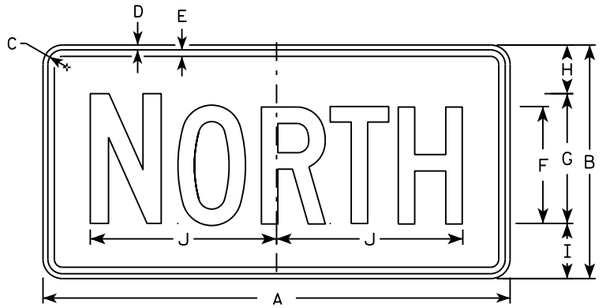
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

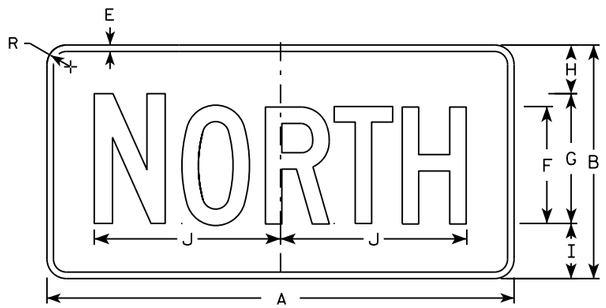
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 277 E



M3-1
MM3-1
MP3-1



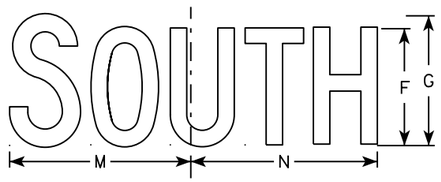
MB3-1
MK3-1
MN3-1



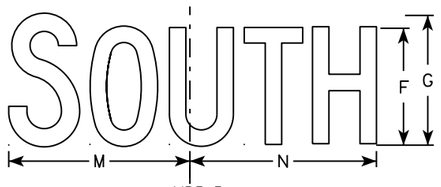
M3-2
MM3-2
MP3-2



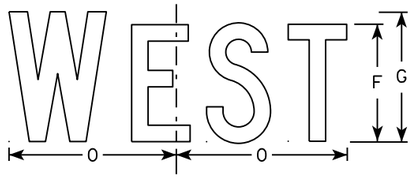
MB3-2
MK3-2
MN3-2



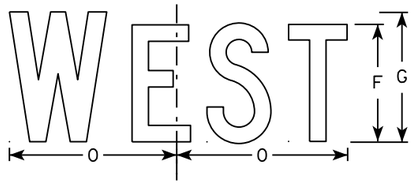
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

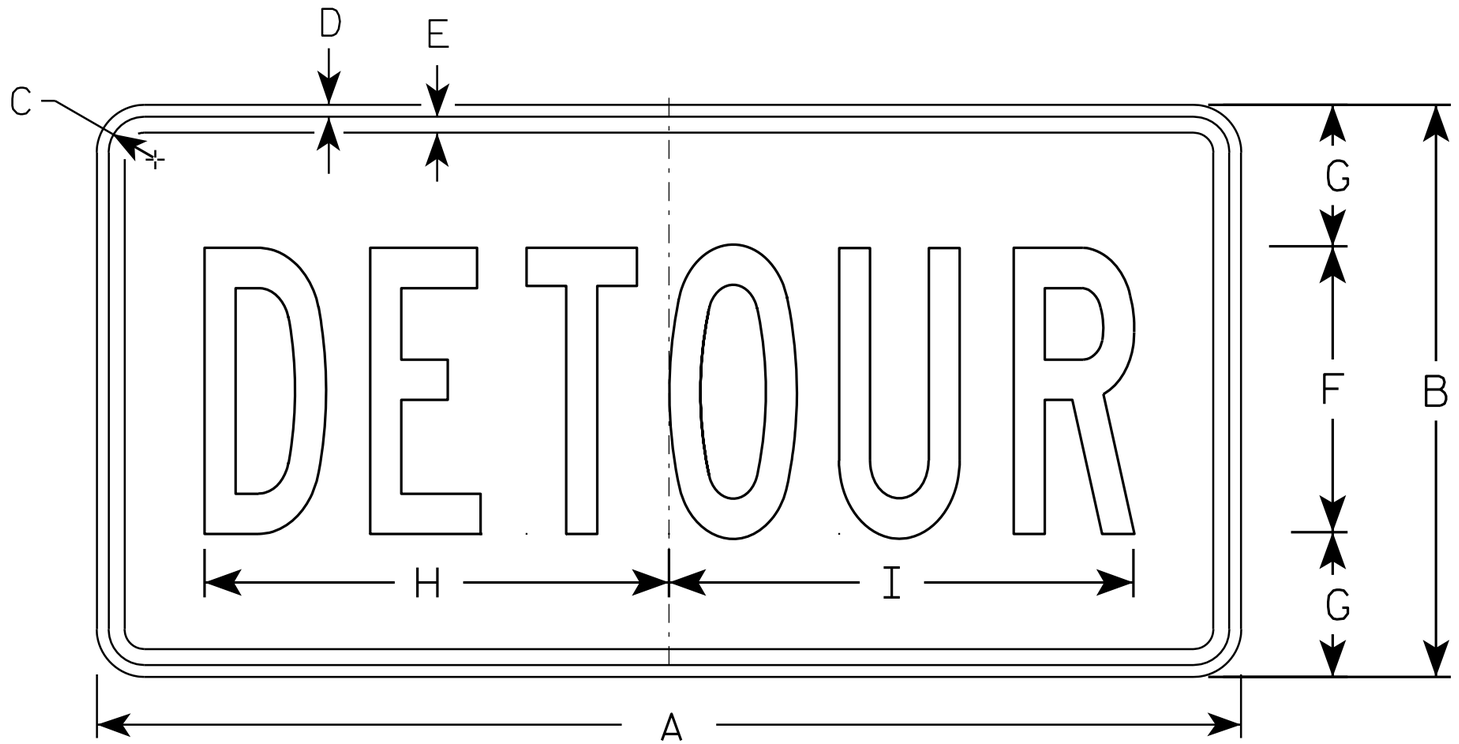
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

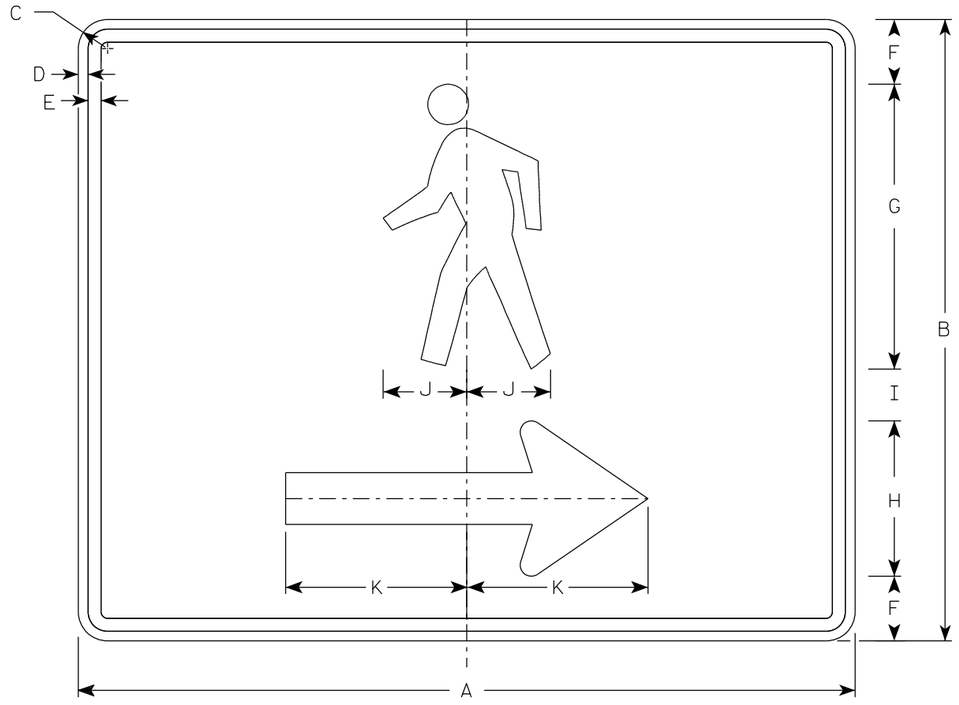
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

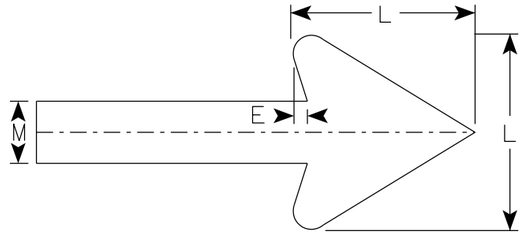
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 279	E



M4-60R

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-60L is the same as M4-60R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	2 1/2	11	6	2	3 1/4	7	6	2														5.00
3																											
4																											
5																											

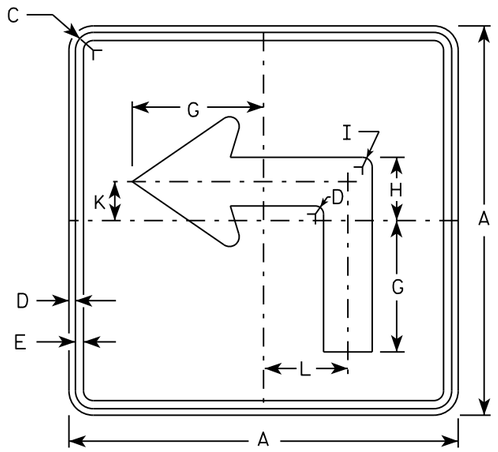
STANDARD SIGN
M4-60 L&R

WISCONSIN DEPT OF TRANSPORTATION

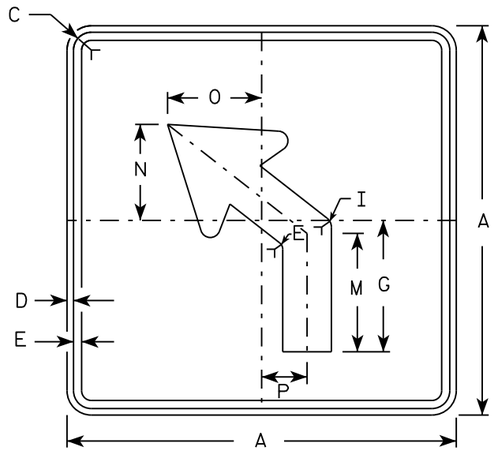
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/16/2021 PLATE NO. M4-60.1

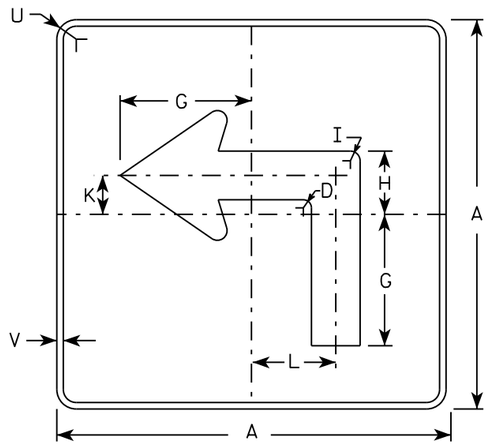
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 280 | E



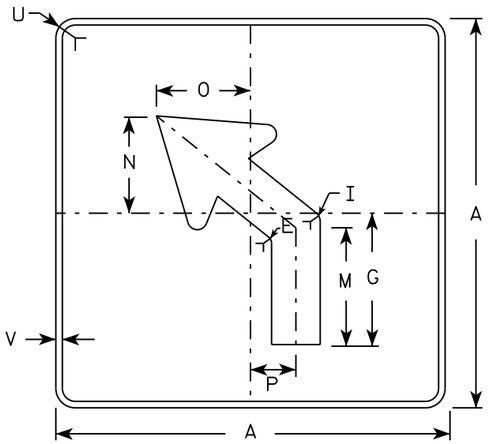
M5-1L
MM5-1L
MO5-1L
MP5-1L



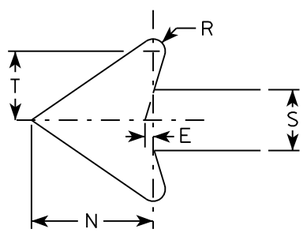
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

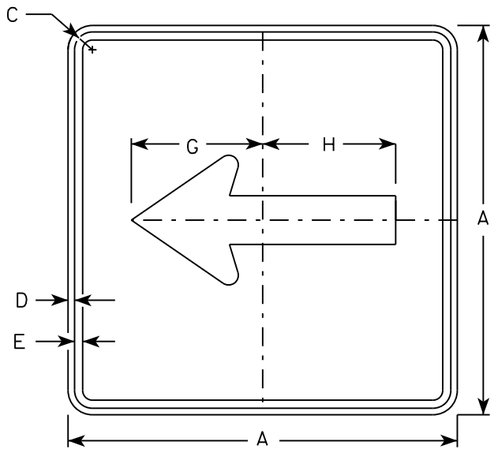
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

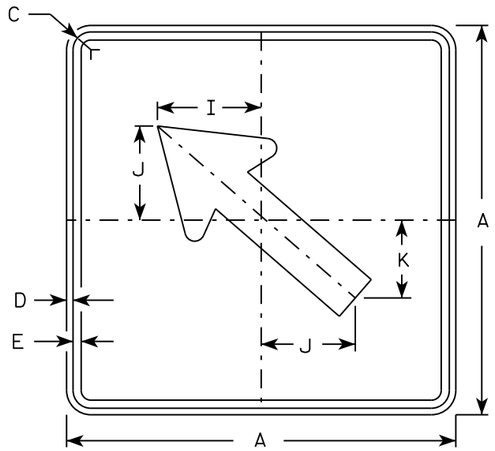
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



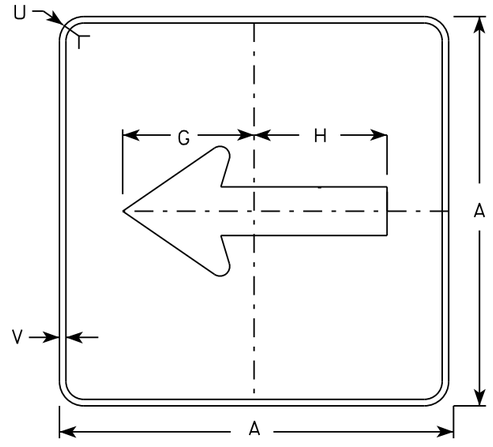
M6-1
MM6-1
MO6-1
MP6-1



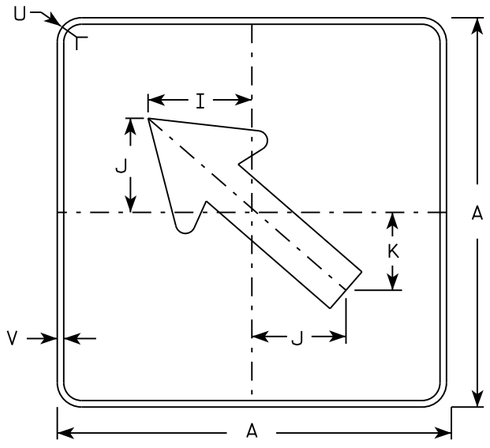
M6-2
MM6-2
MO6-2
MP6-2

NOTES

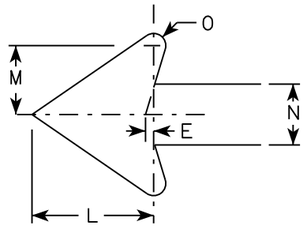
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

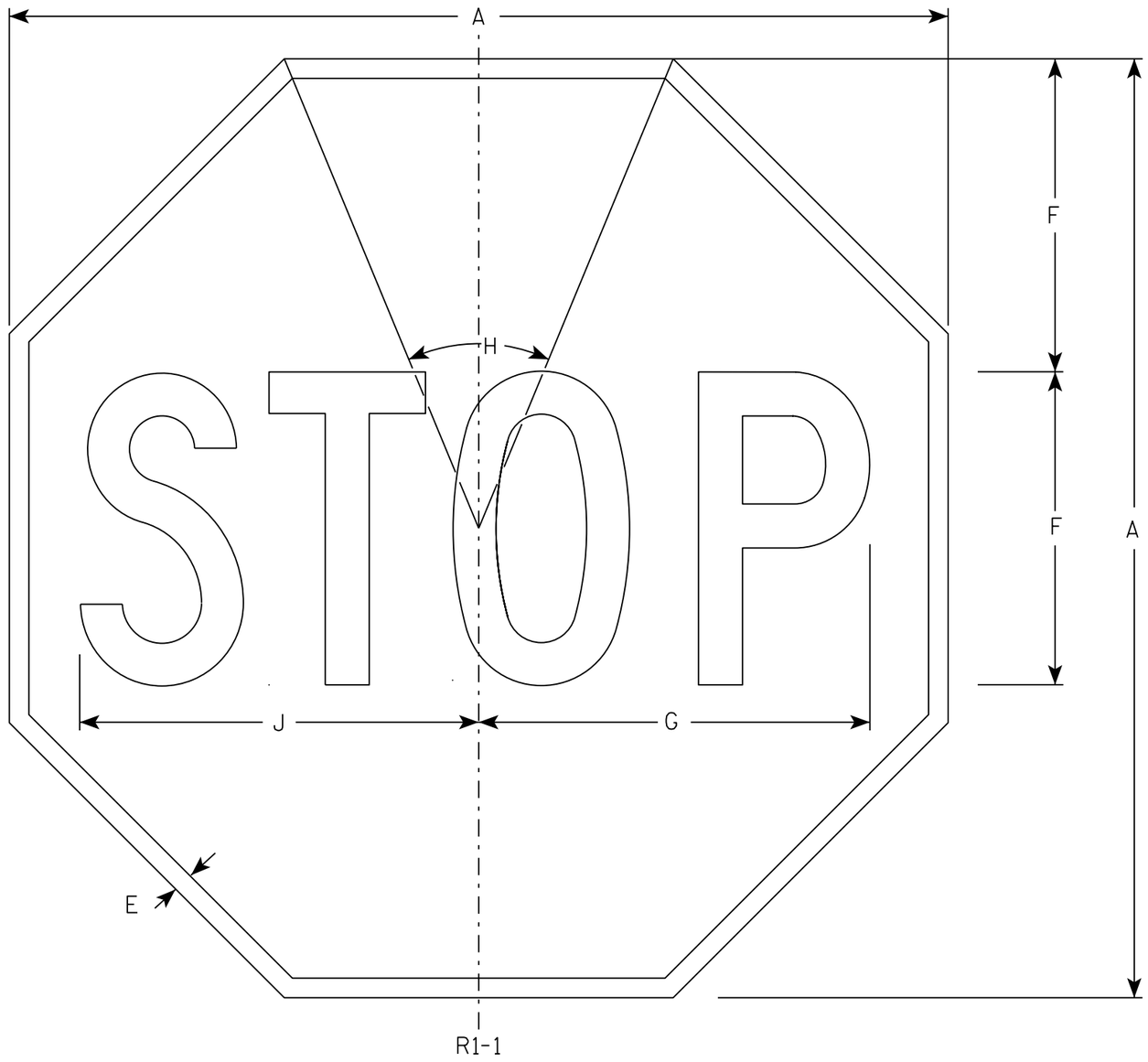
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 282 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

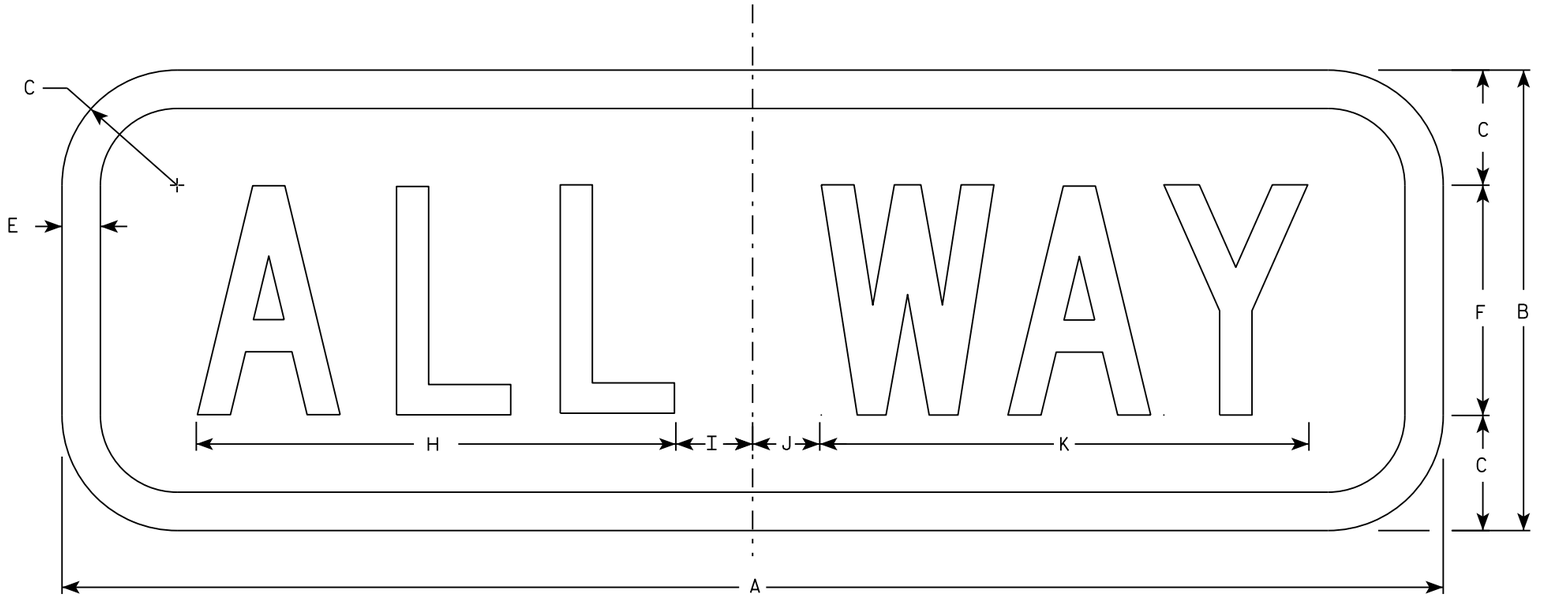
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 283	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. For 30"x30" R1-1 use 18"x6" R1-3P sign
   For 36"x36" R1-1 use 24"x9" R1-3P sign
   For 48"x48" R1-1 use 30"x12" R1-3P sign



R1-3P

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	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																0.75
2S	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																1.5
2M	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
3	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
4	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5
5	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5

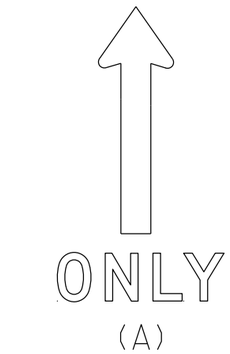
STANDARD SIGN
R1-3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R1-3P.3

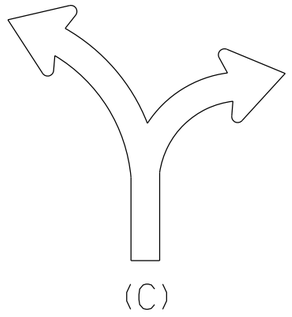
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 284 | E

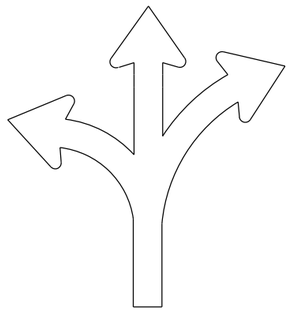


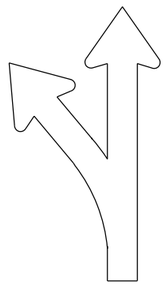
(A)

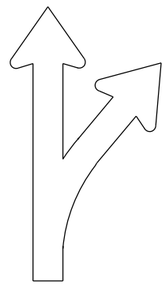


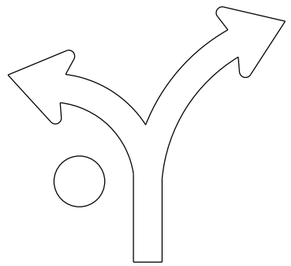
(B)

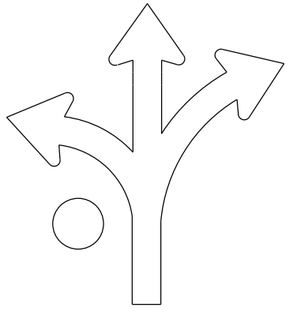

(C)

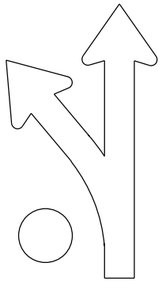

(D)

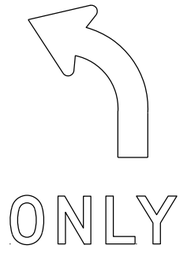

(E)


(F)

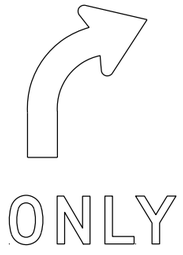

(G)


(H)

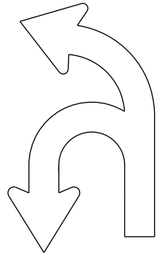

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

7

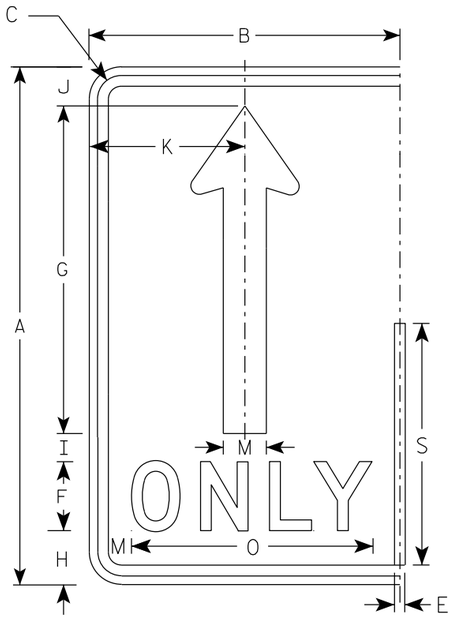
7

PROJECT NO:

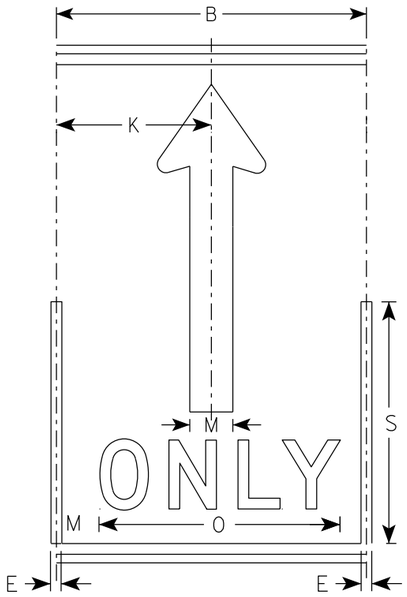
SHEET NO: 285 E

NOTES

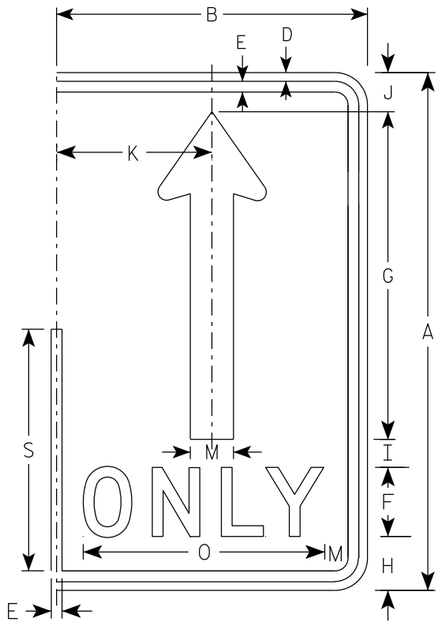
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



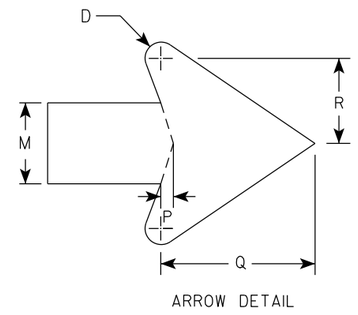
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

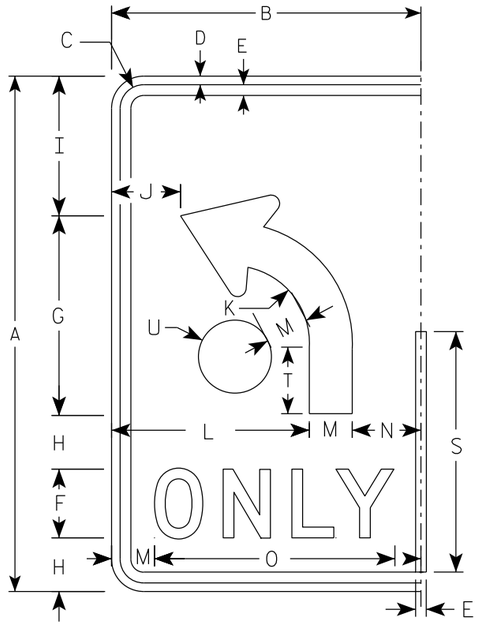
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

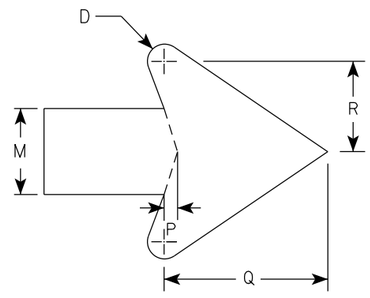
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 286 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

SHEET NO: 287 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME :

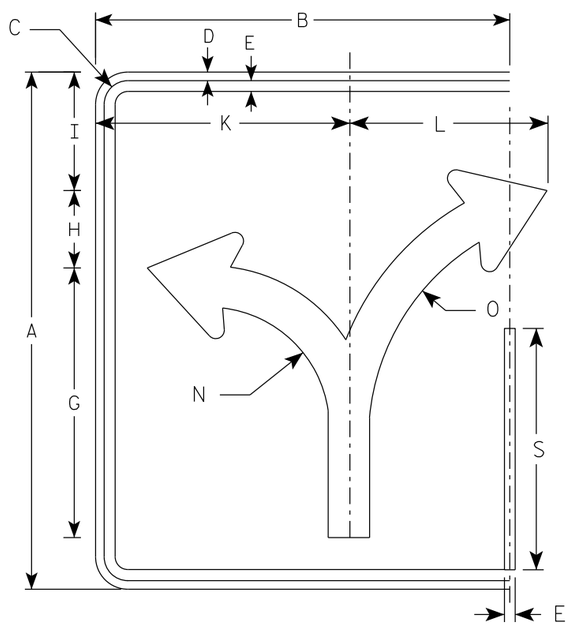
WISDOT/CADDS SHEET 42

7

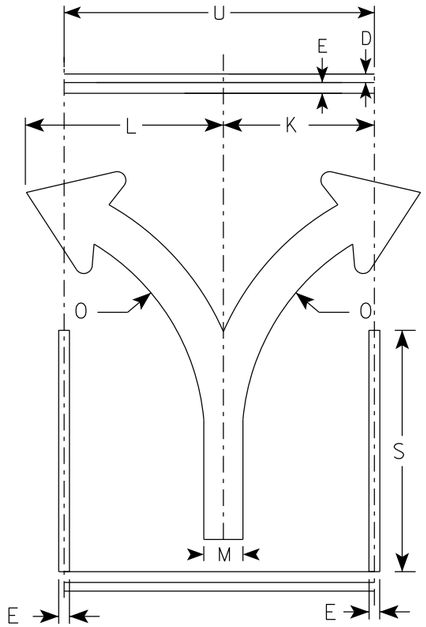
7

NOTES

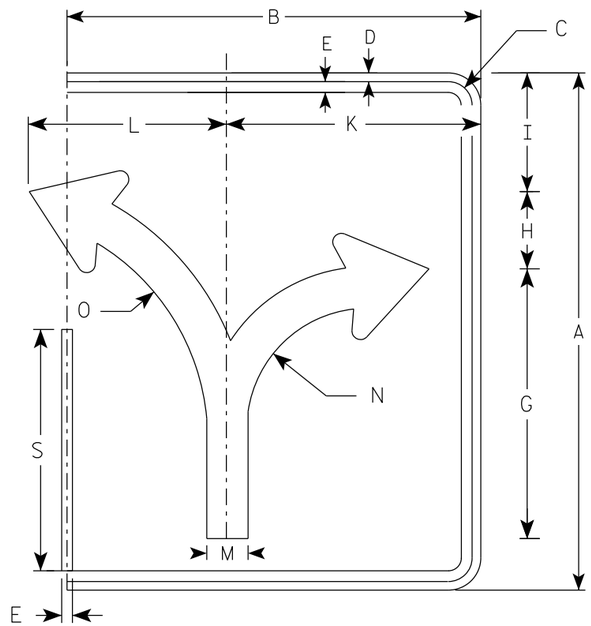
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



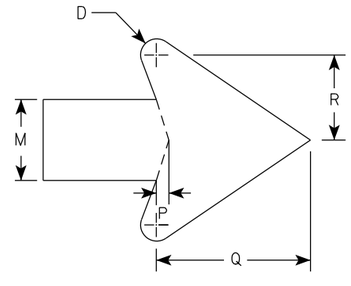
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

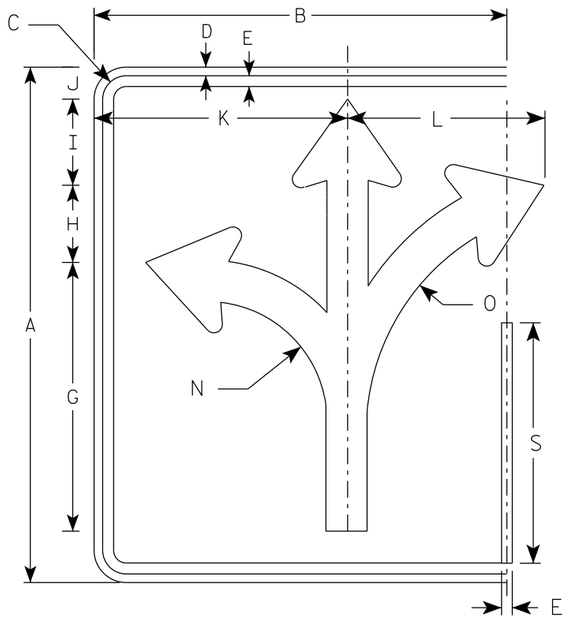
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

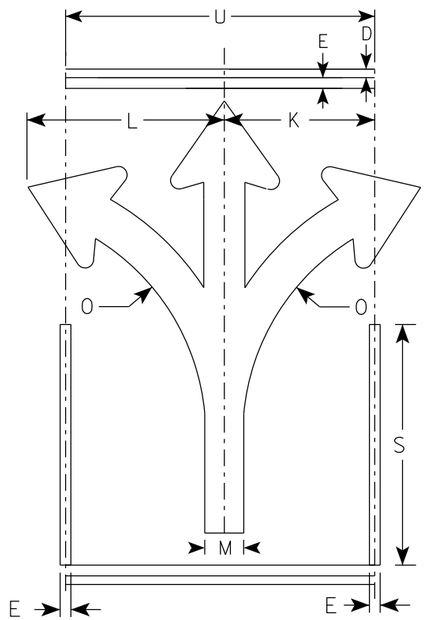
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 288 | E

NOTES

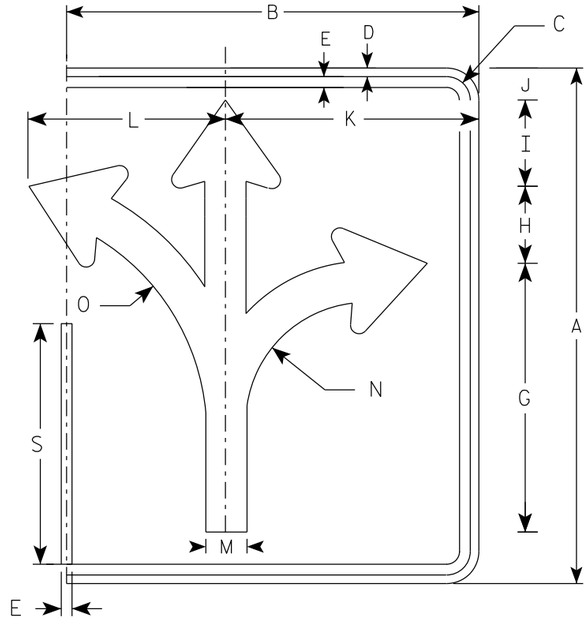
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



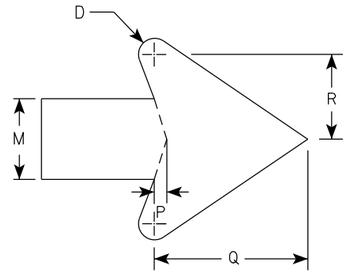
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

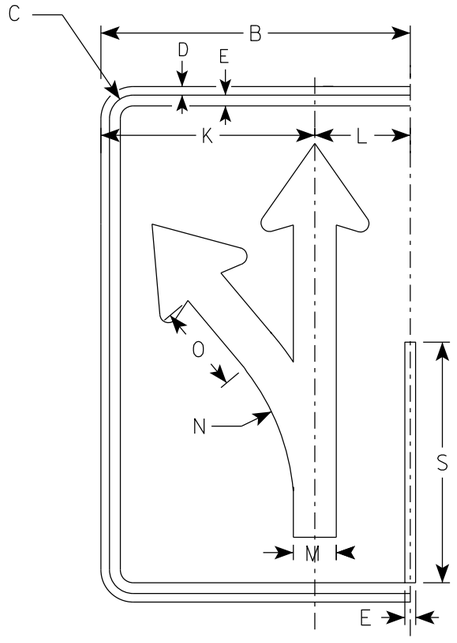
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

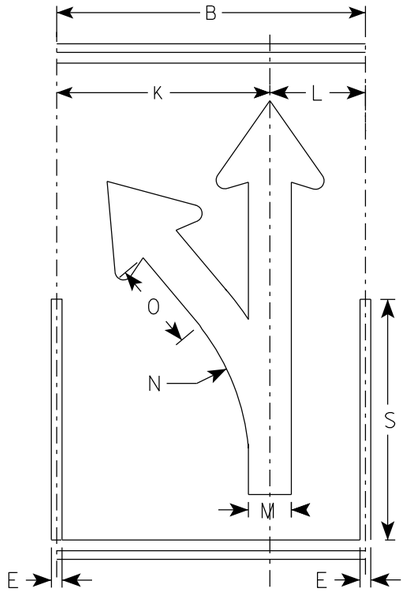
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 289 | E

NOTES

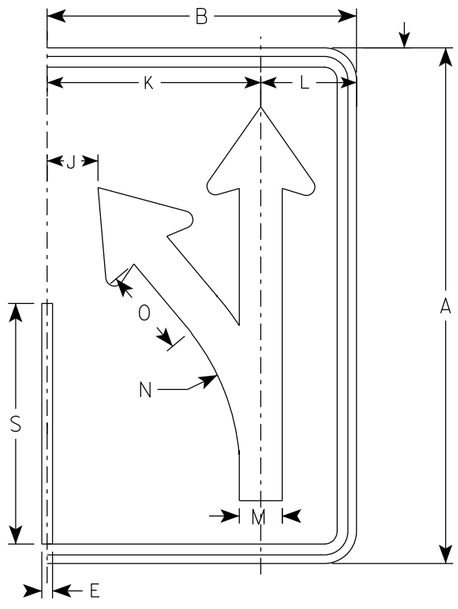
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



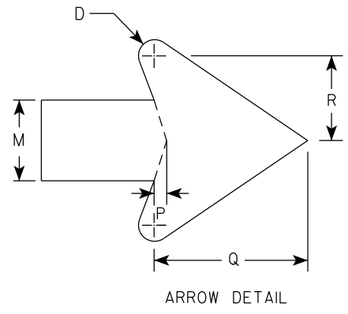
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

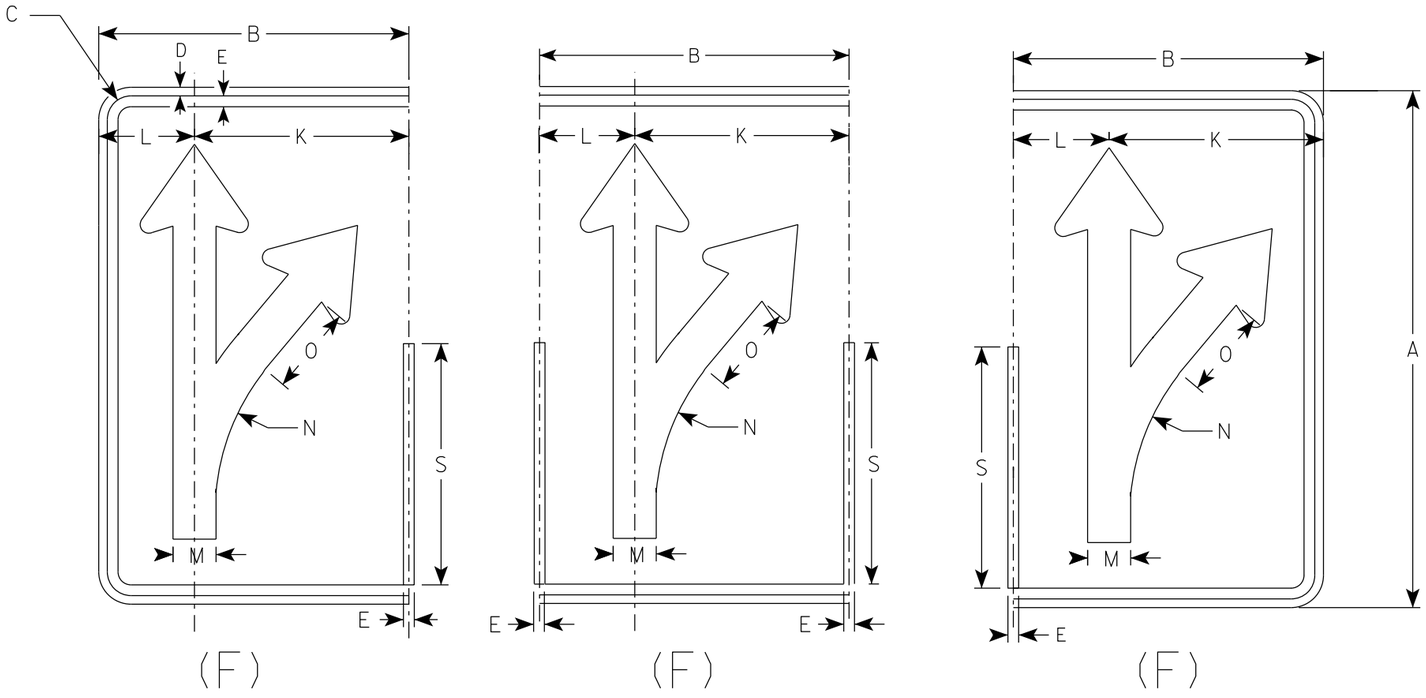
APPROVED Matthew R Rauch
For State Traffic Engineer

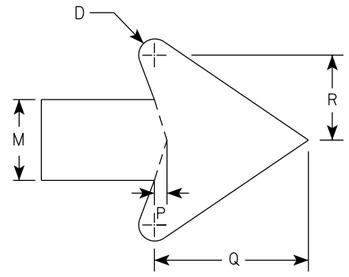
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 290 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None





ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

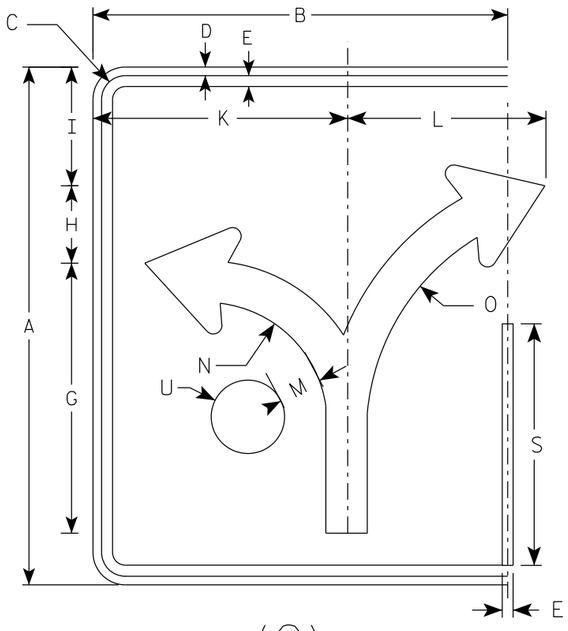
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

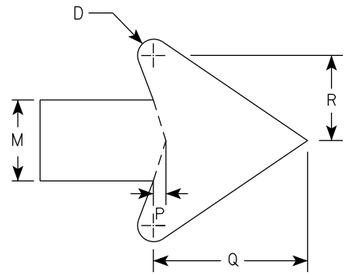
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 291 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

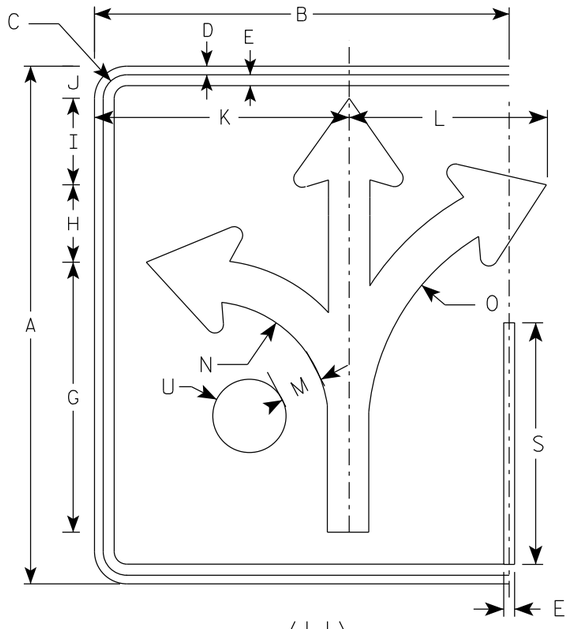
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

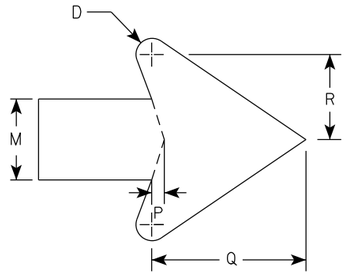
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 292 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

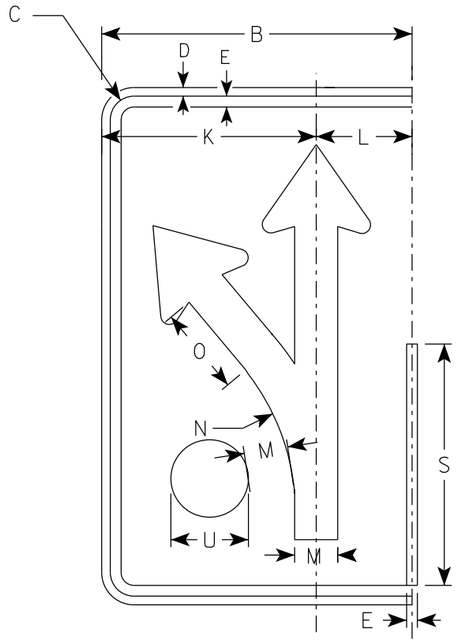
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

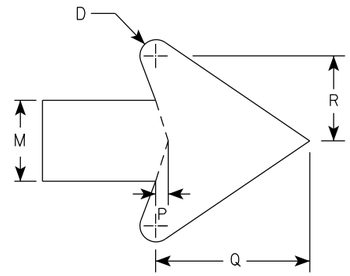
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 293	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

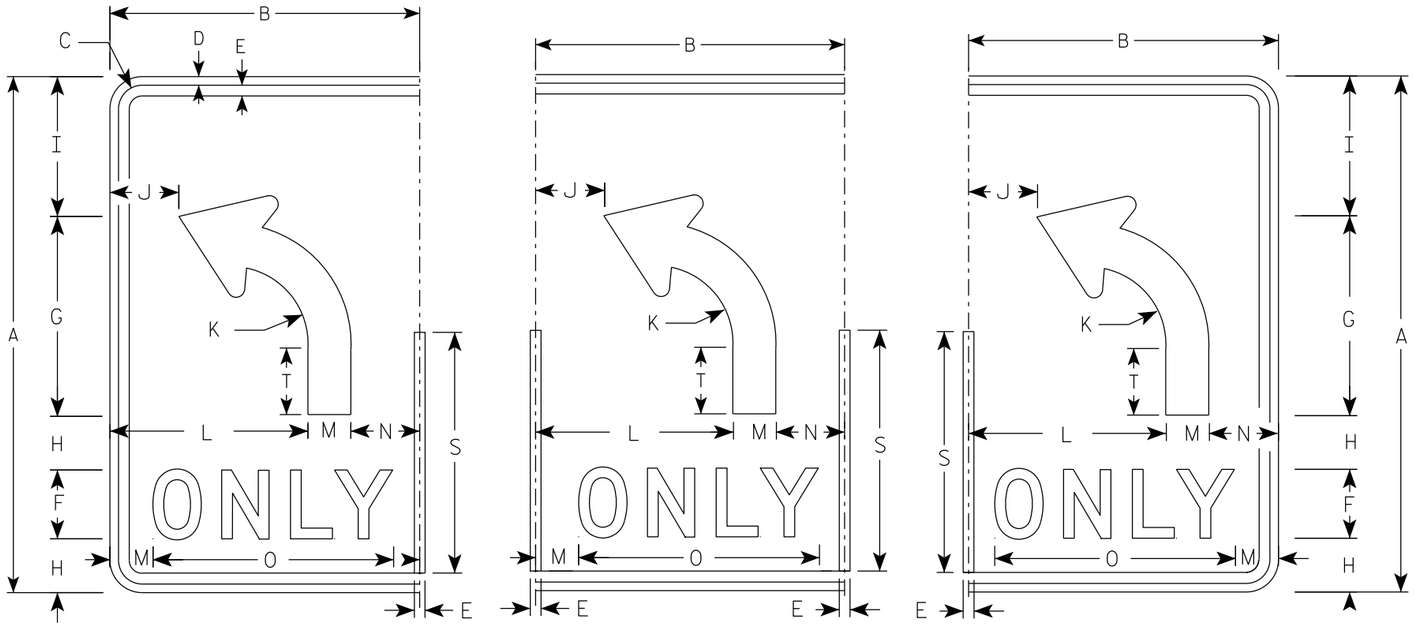
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

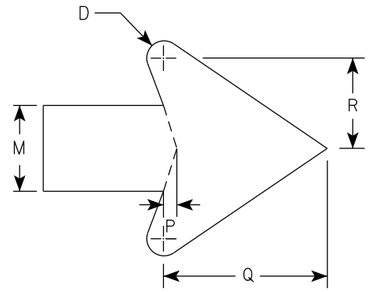
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 294 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



(L) (L) (L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

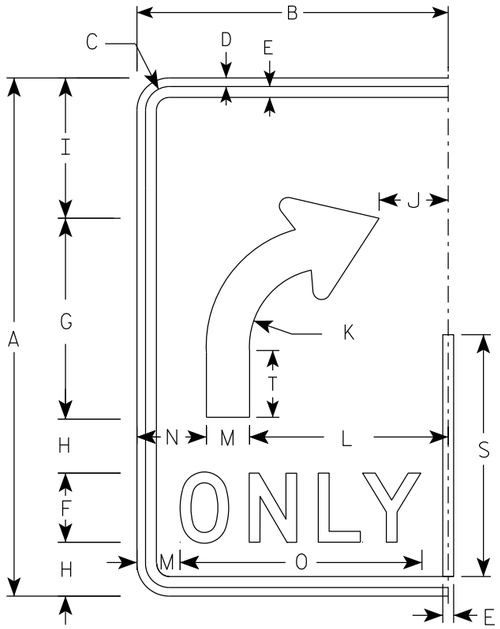
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

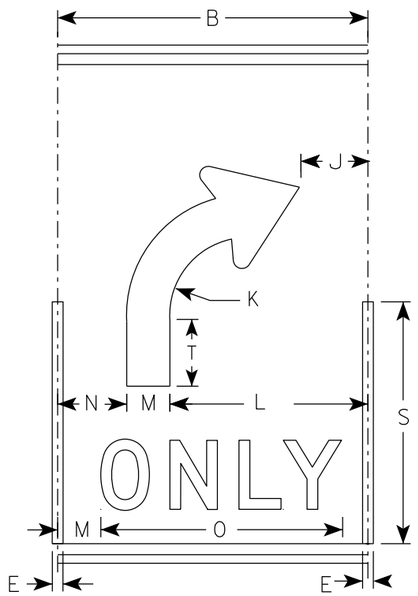
SHEET NO: 295 E

NOTES

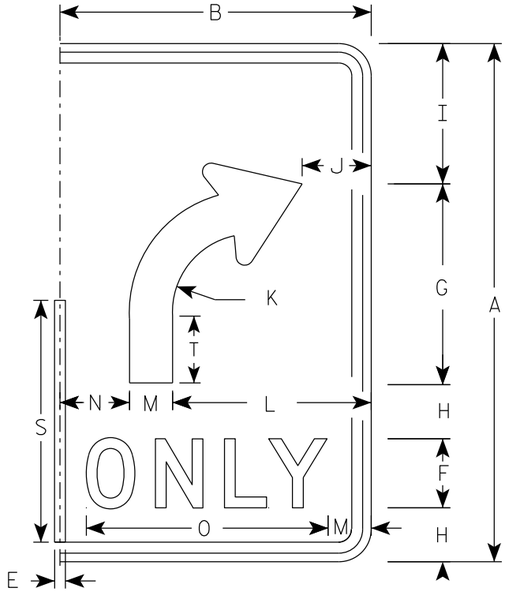
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



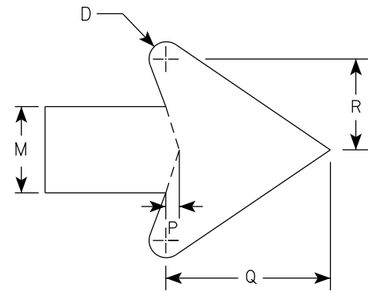
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

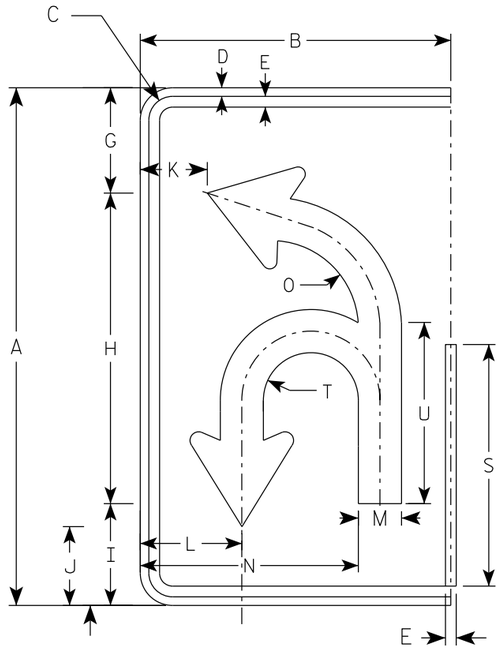
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

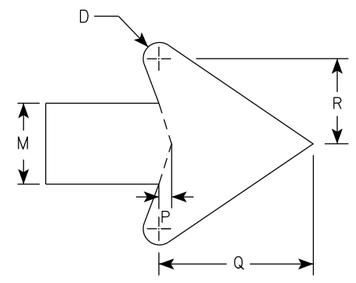
SHEET NO: 296 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

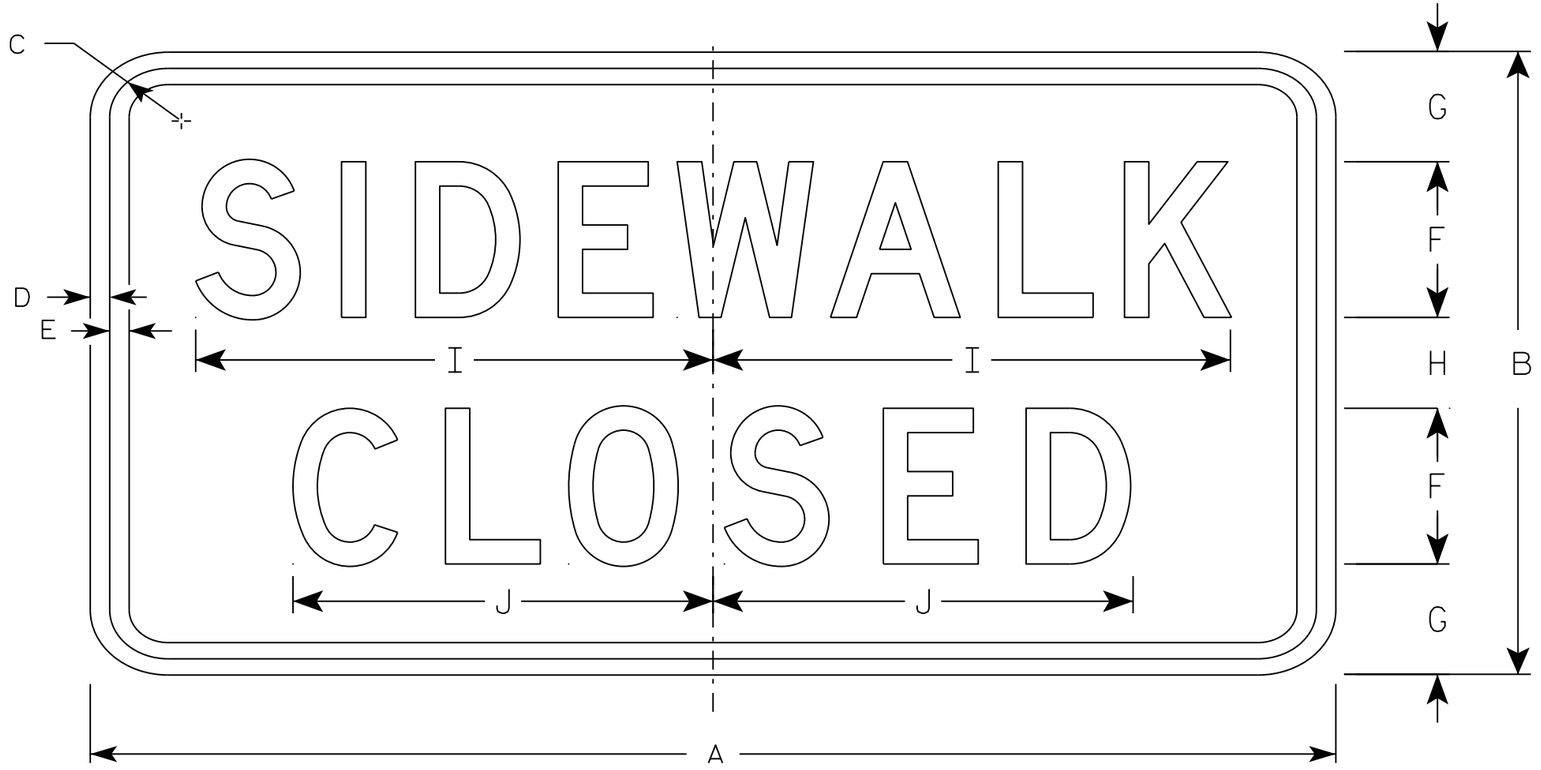
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 297 | E



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

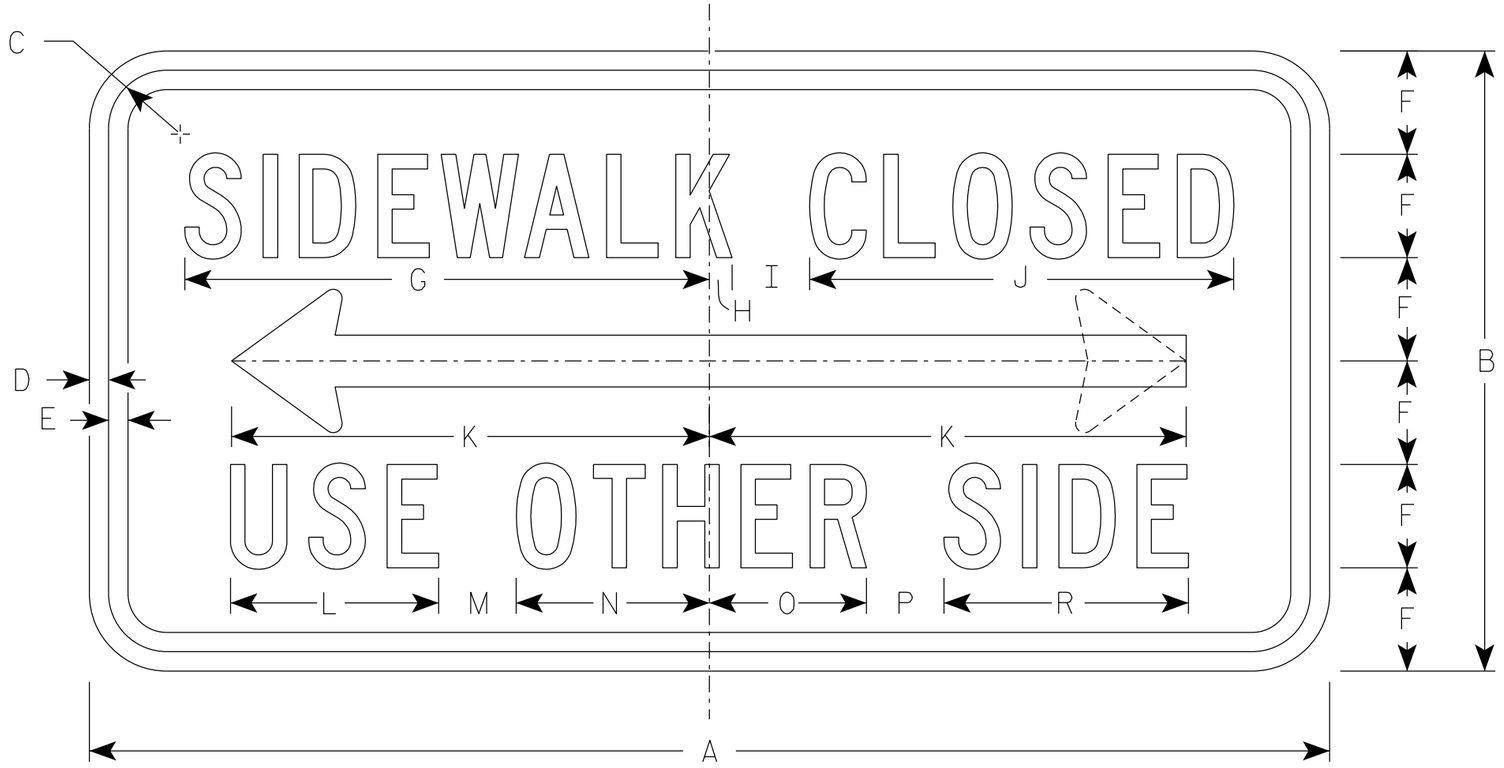
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 298 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

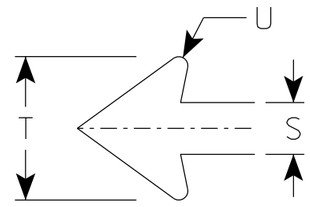
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-10

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for sidewalks. Use Size 3 for paths and trails.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8						2.0
2M	24	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8						2.0
3	30	15	1 1/8	3/8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	5	2	4 5/8	3 3/4	2		5 7/8	1 1/4	3 5/8	1/4						3.125
4																											
5																											

STANDARD SIGN
R9-10

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/7/2020 PLATE NO. R9-10.7

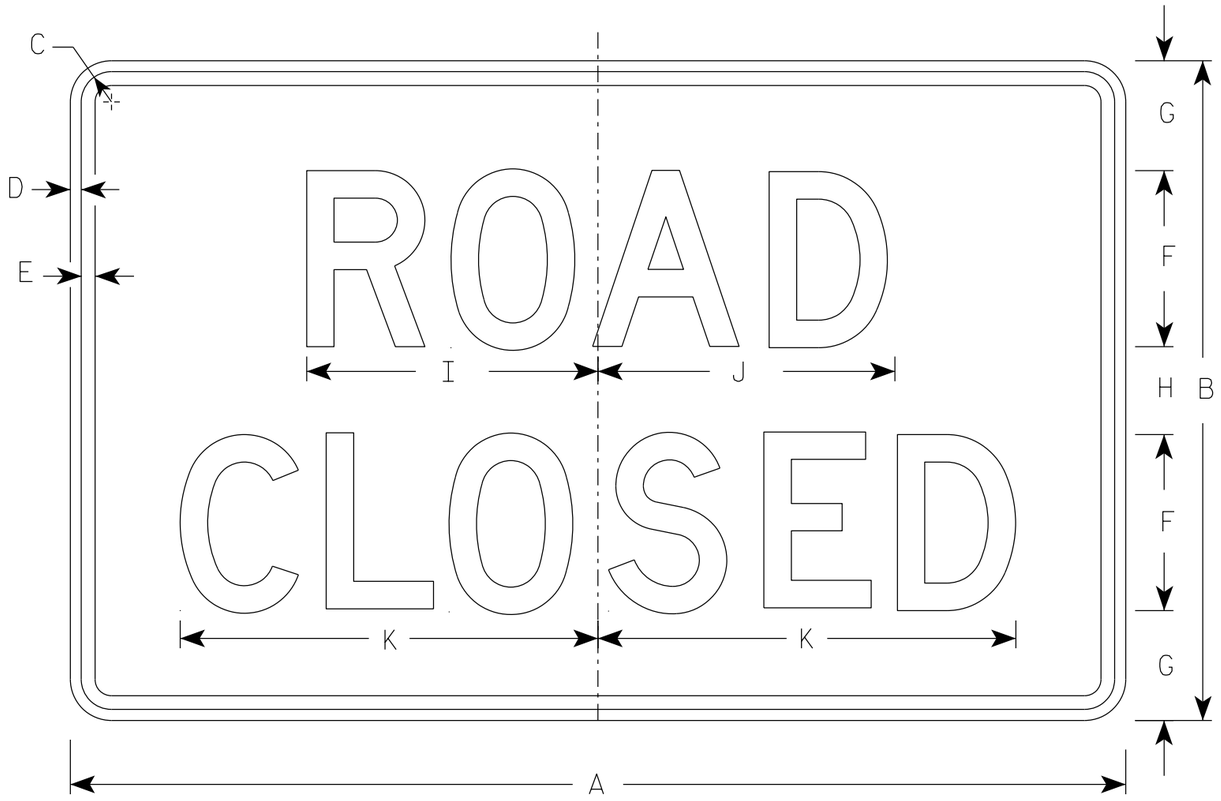
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 299	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R910.dgn PLOT DATE : 07-APRIL-2020 PLOT BY : dotc4c PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

7

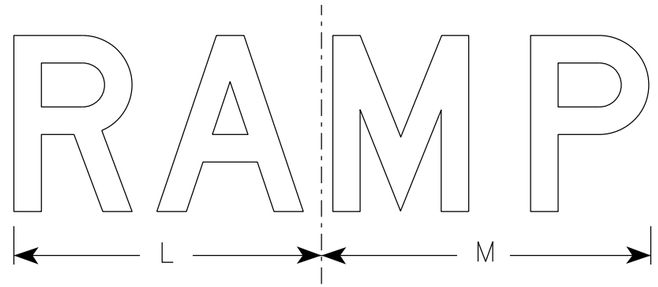
7



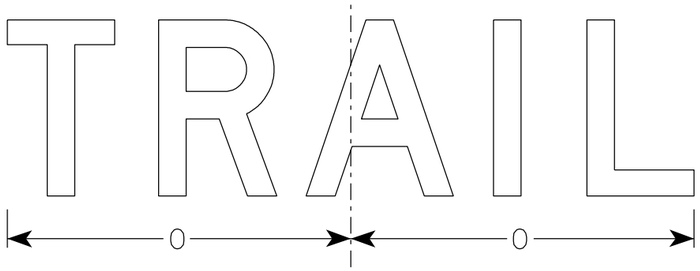
R11-2

NOTES

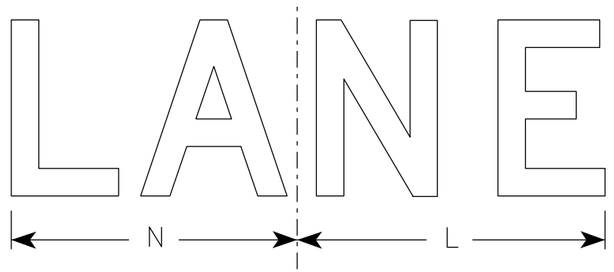
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the 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

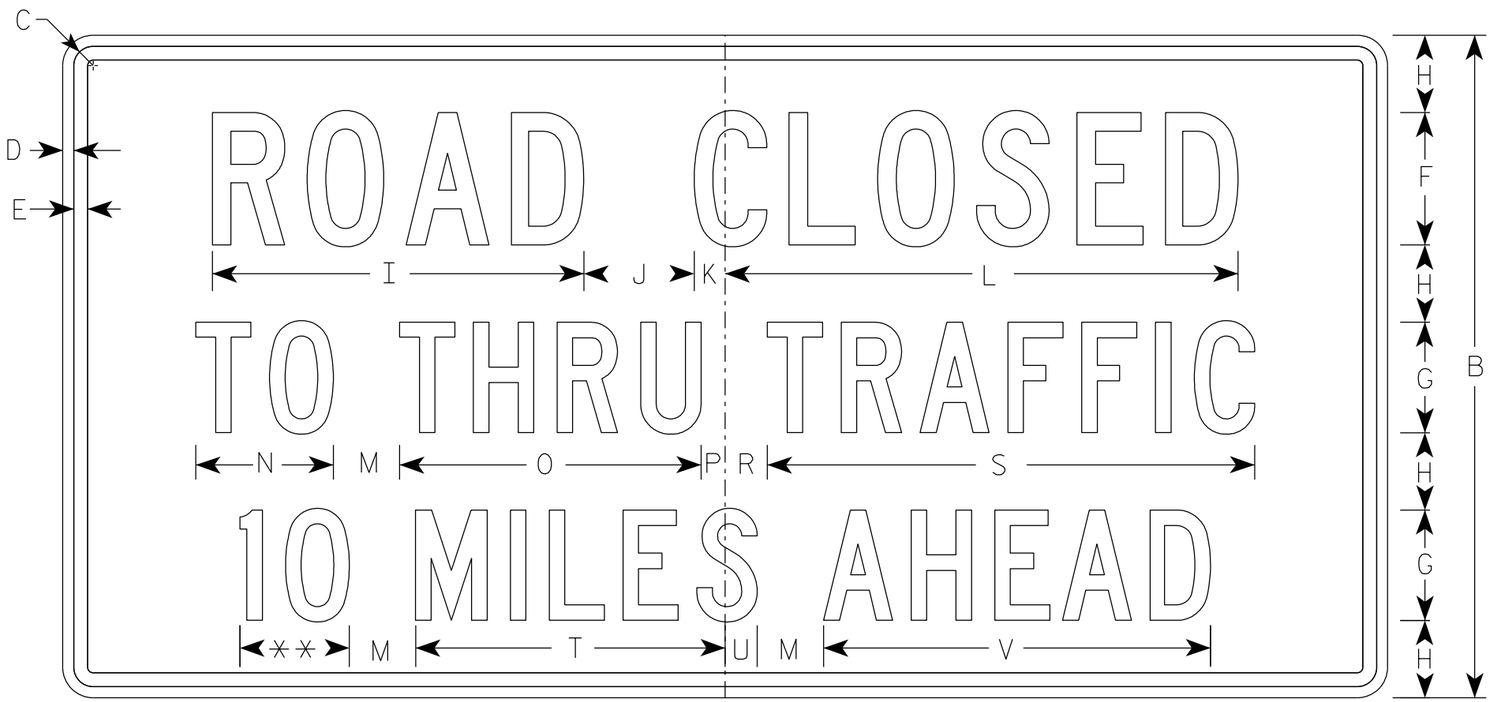
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 300	E

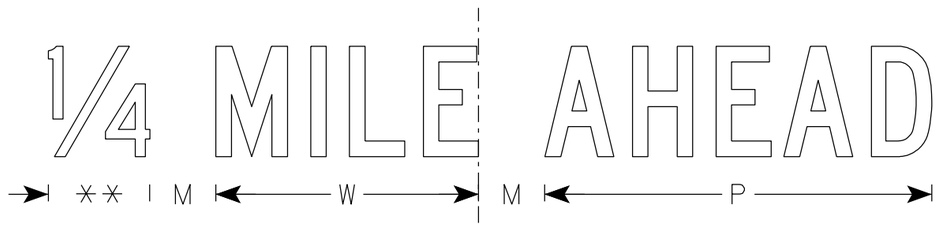
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



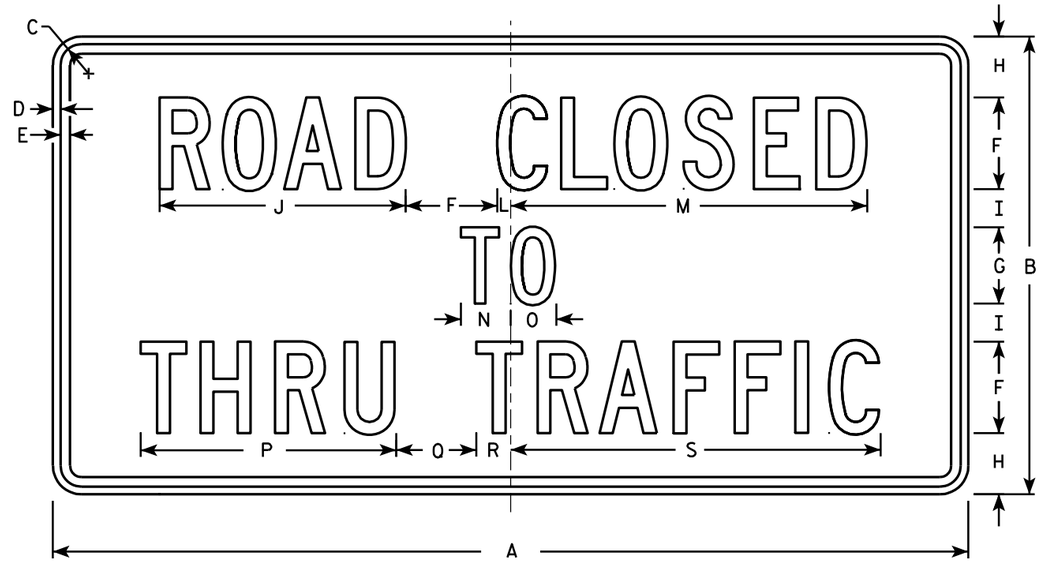
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 301	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																											

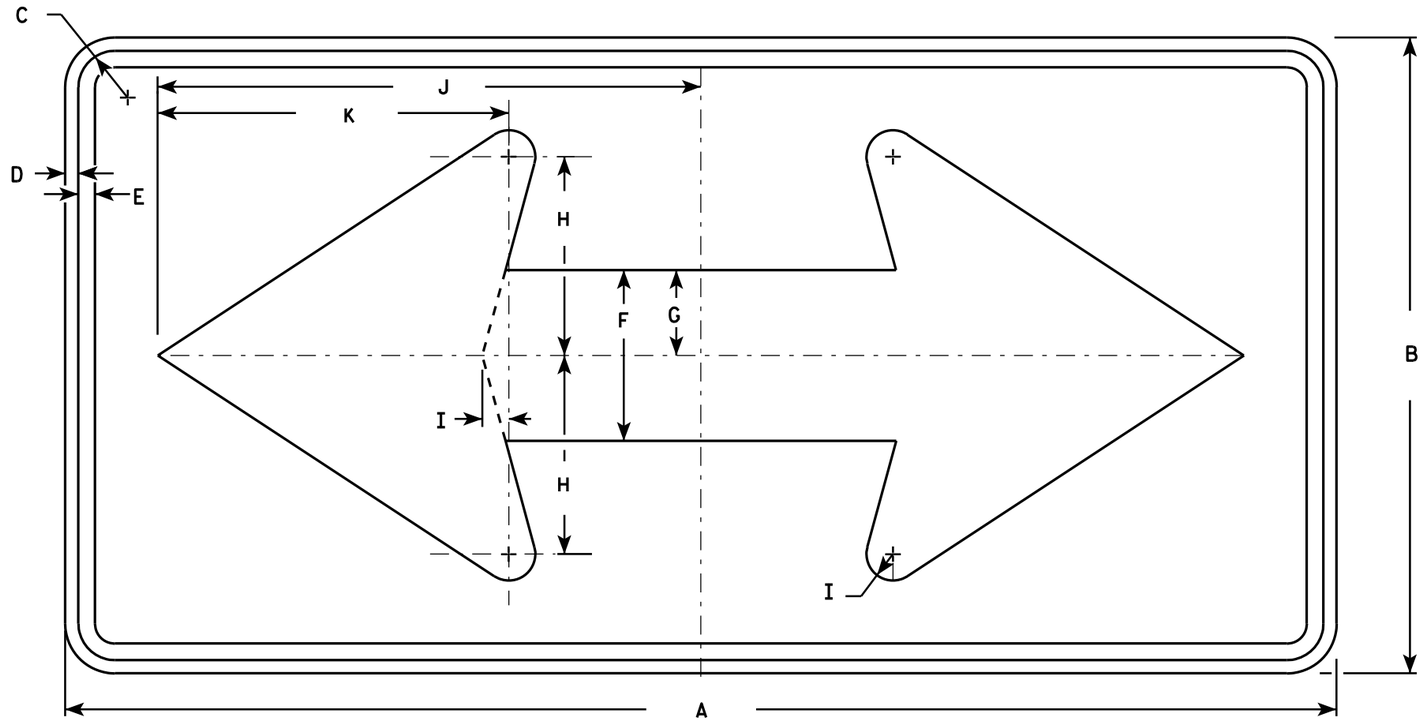
STANDARD SIGN
R11 - 4

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: 302 | E



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

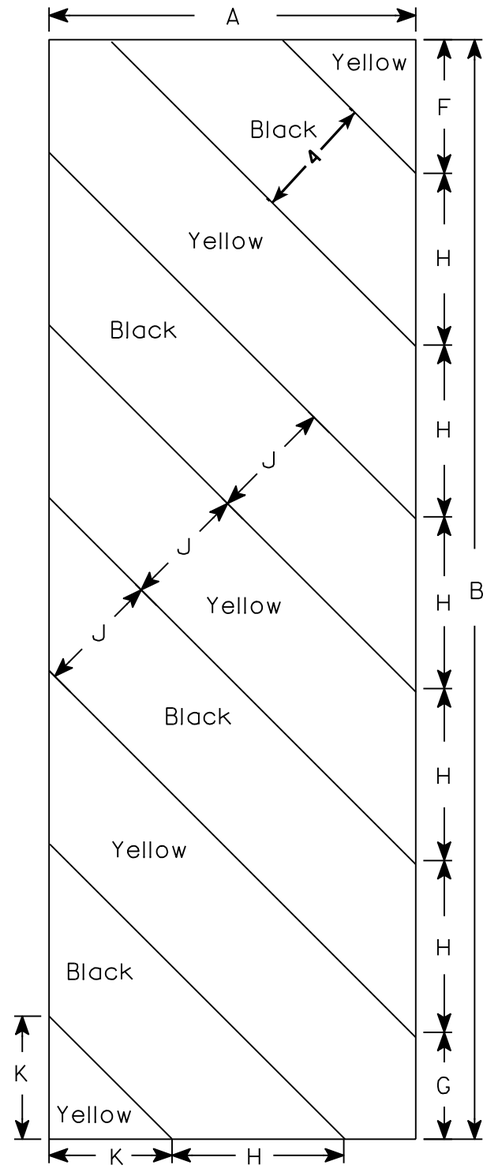
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

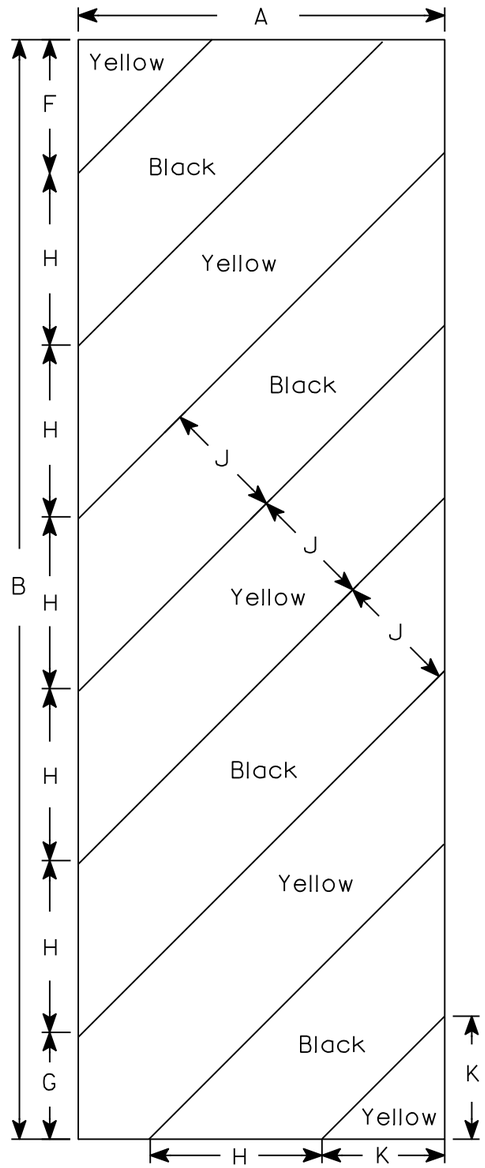
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 303 | E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

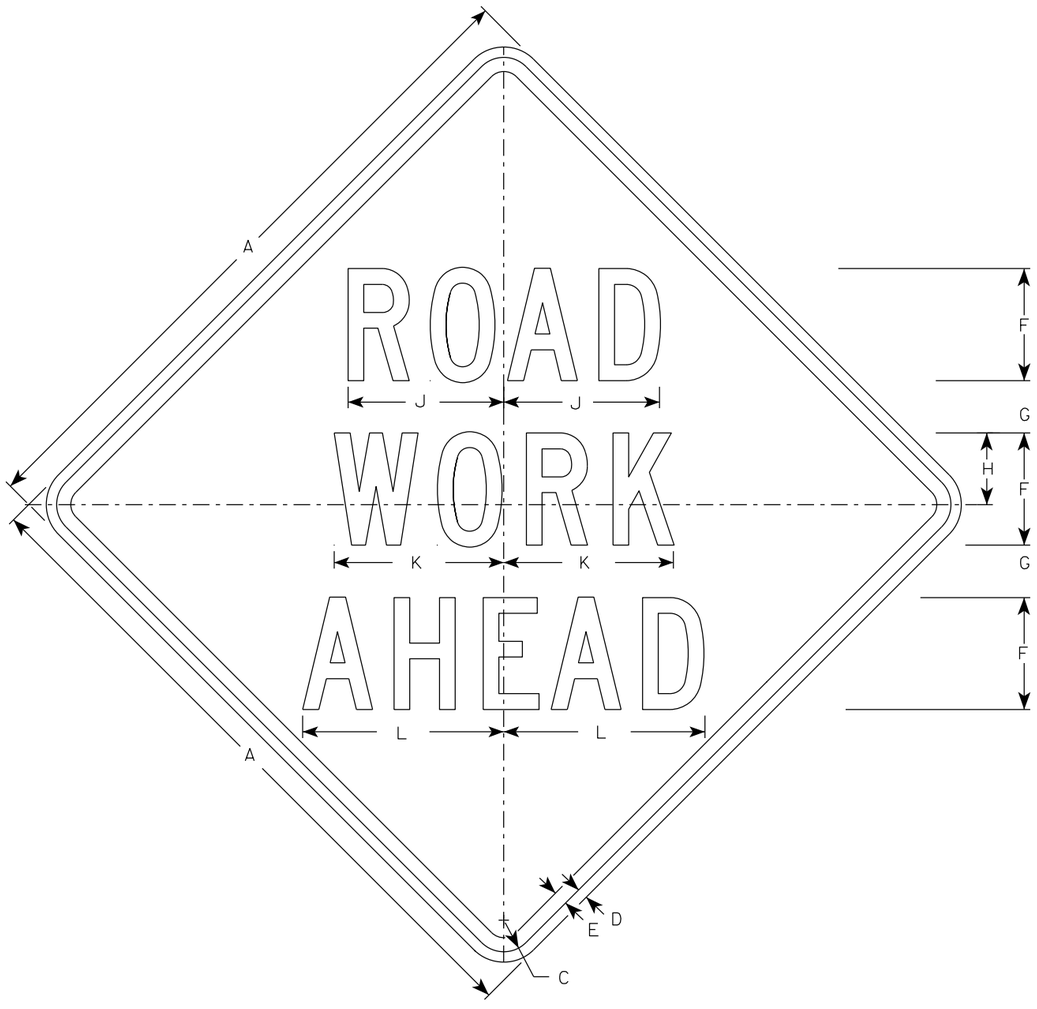
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

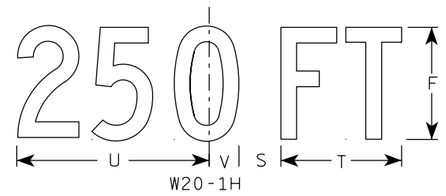
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 304	E

NOTES

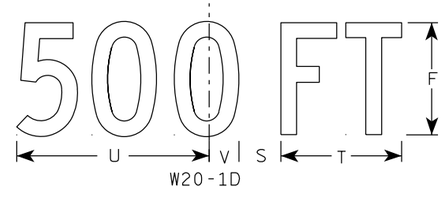
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A



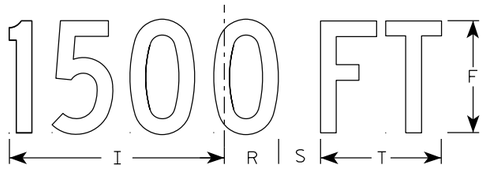
W20-1H



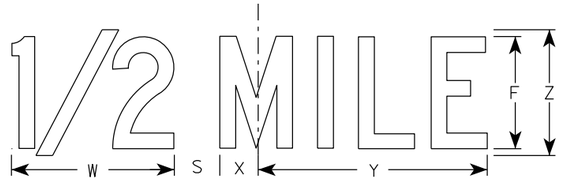
W20-1D



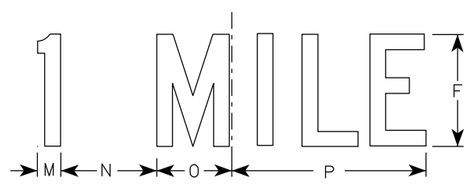
W20-1C



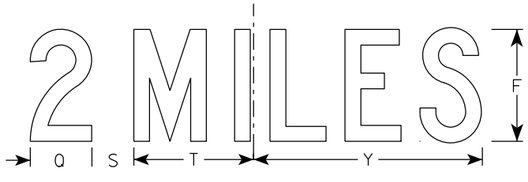
W20-1B



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

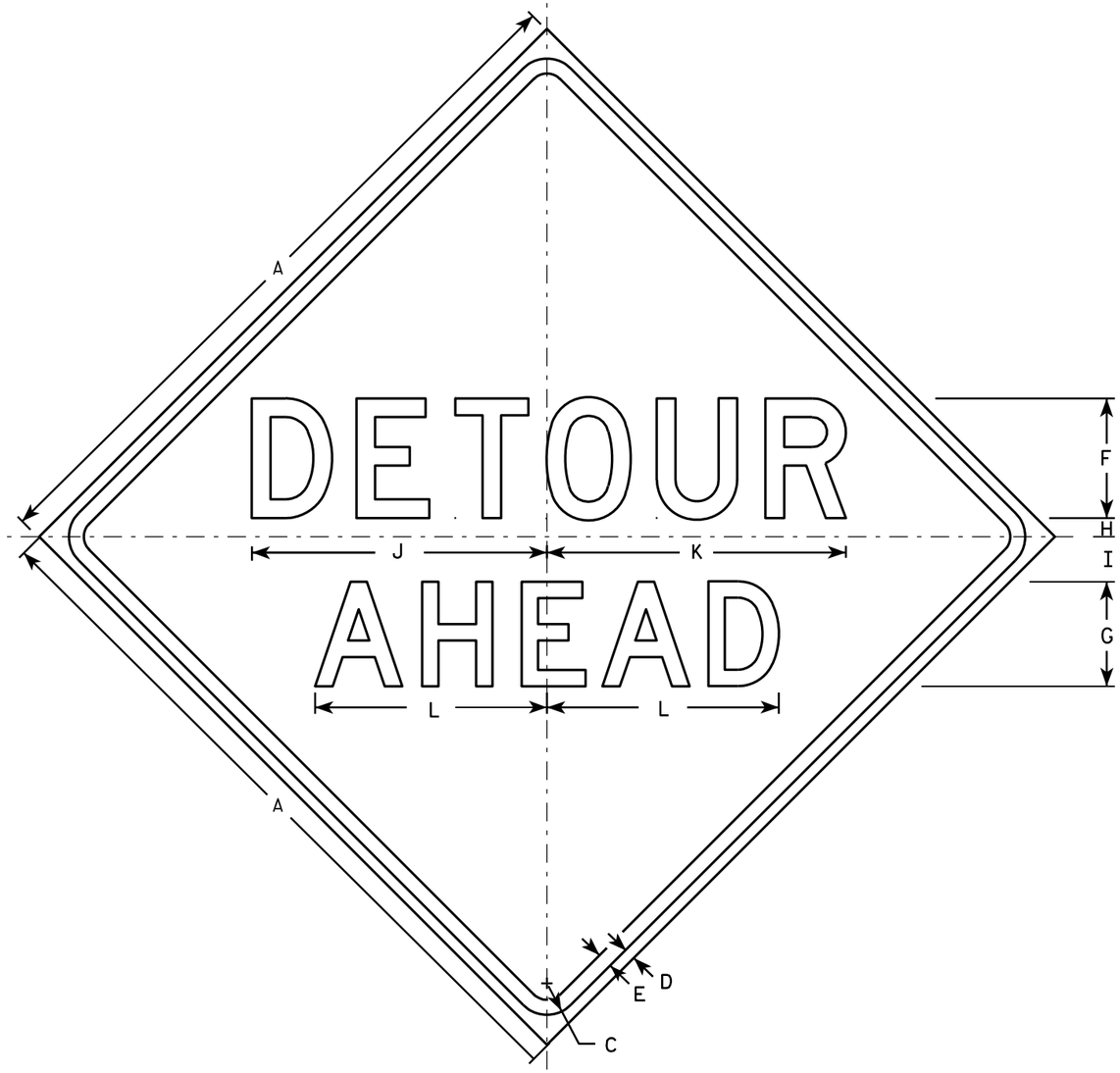
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

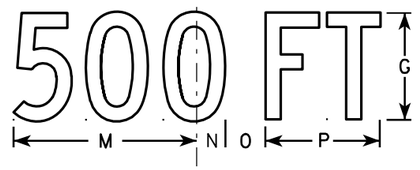
WISDOT/CADDS SHEET 42

7

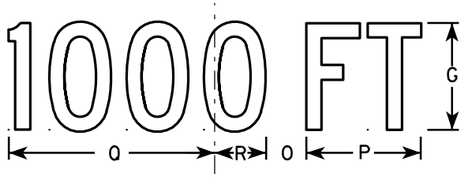
7



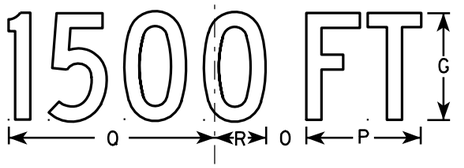
W20-2A



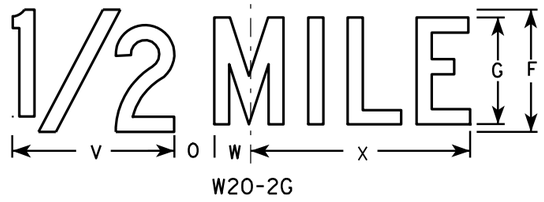
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

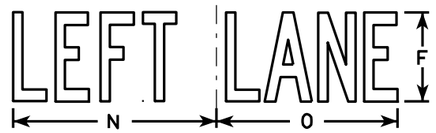
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

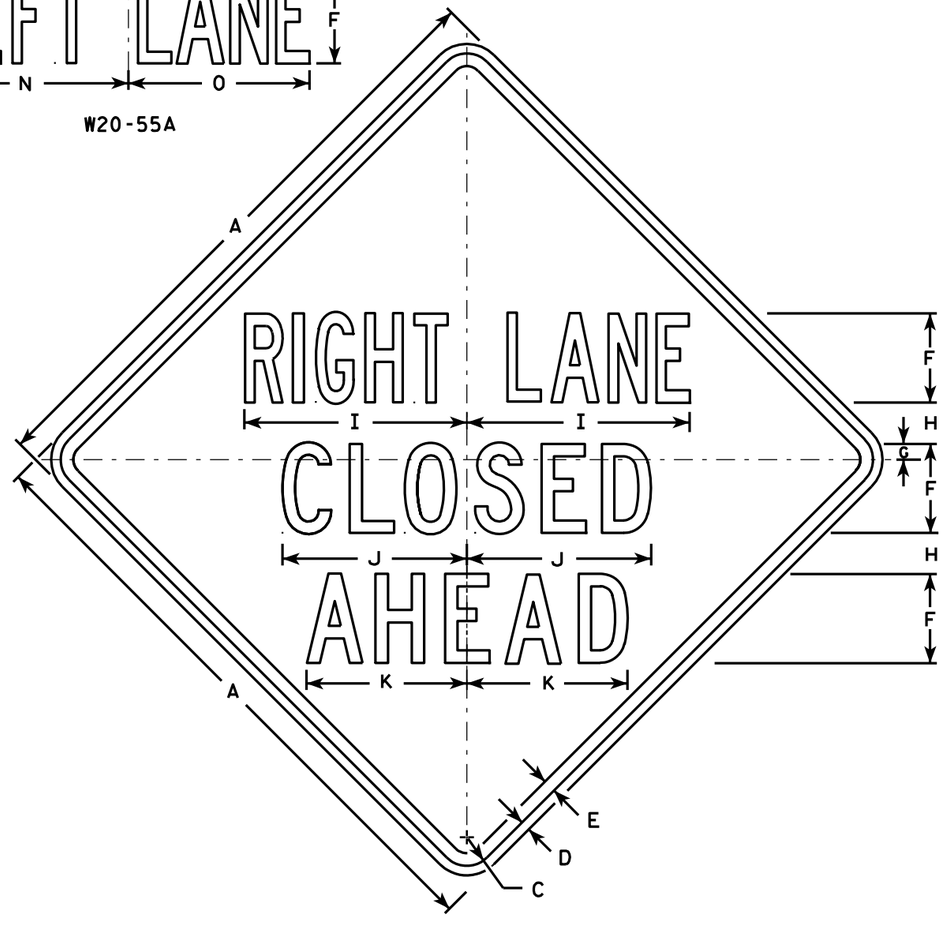
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 306	E



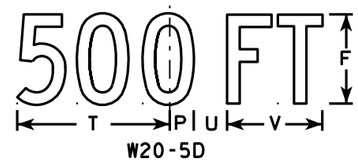
W20-56A



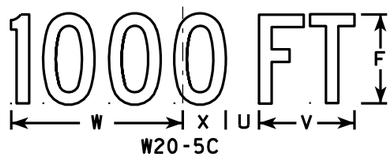
W20-55A



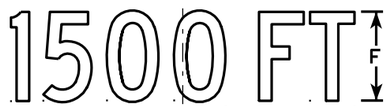
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

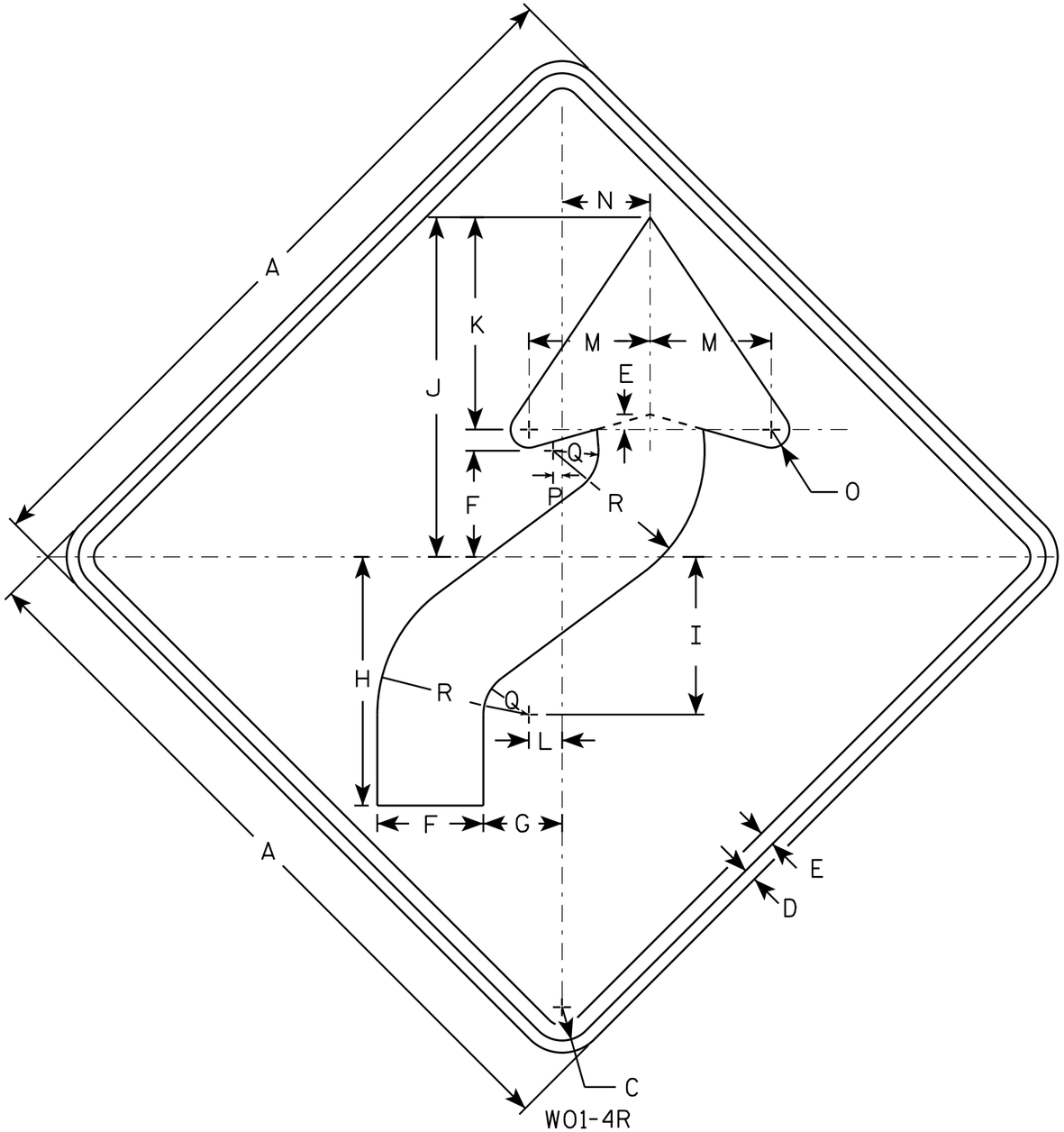
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 307	E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



WO1-4R

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. WO1-4L is the same as WO1-4R 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
WO1-4

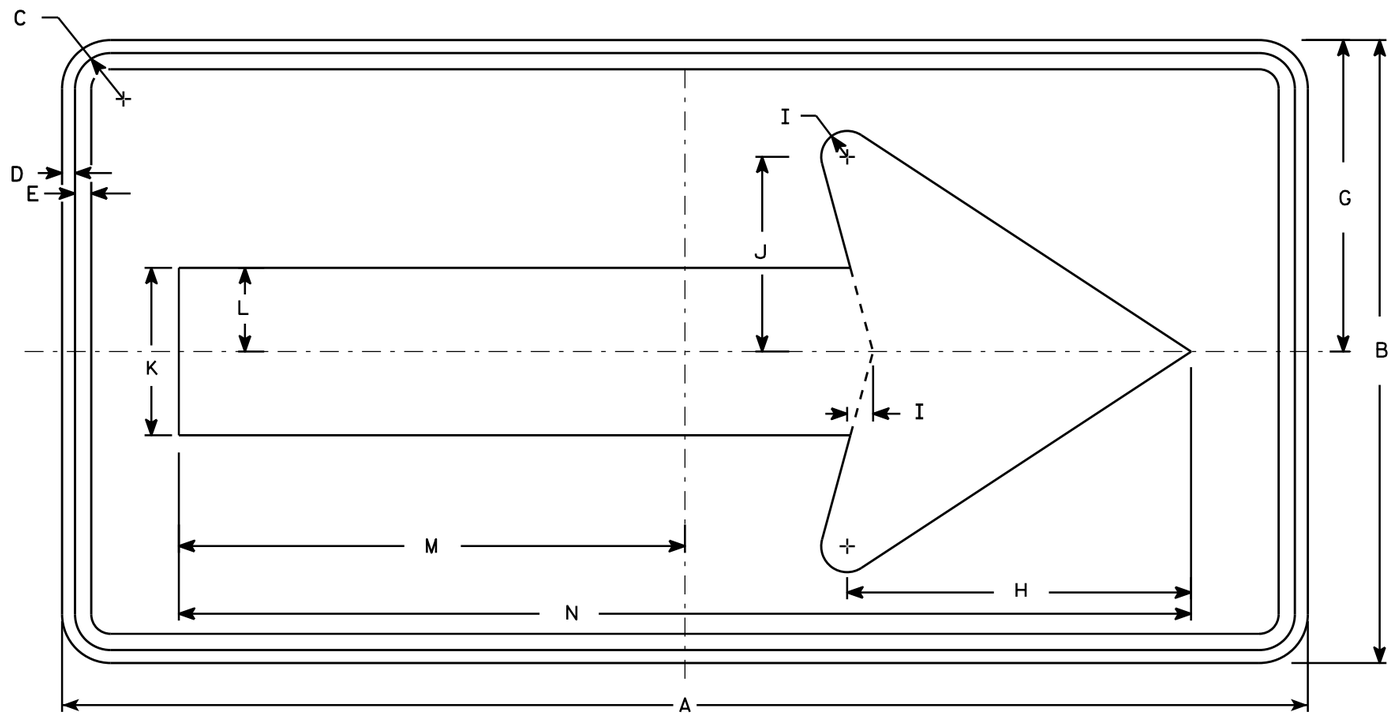
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO WO1-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO14.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

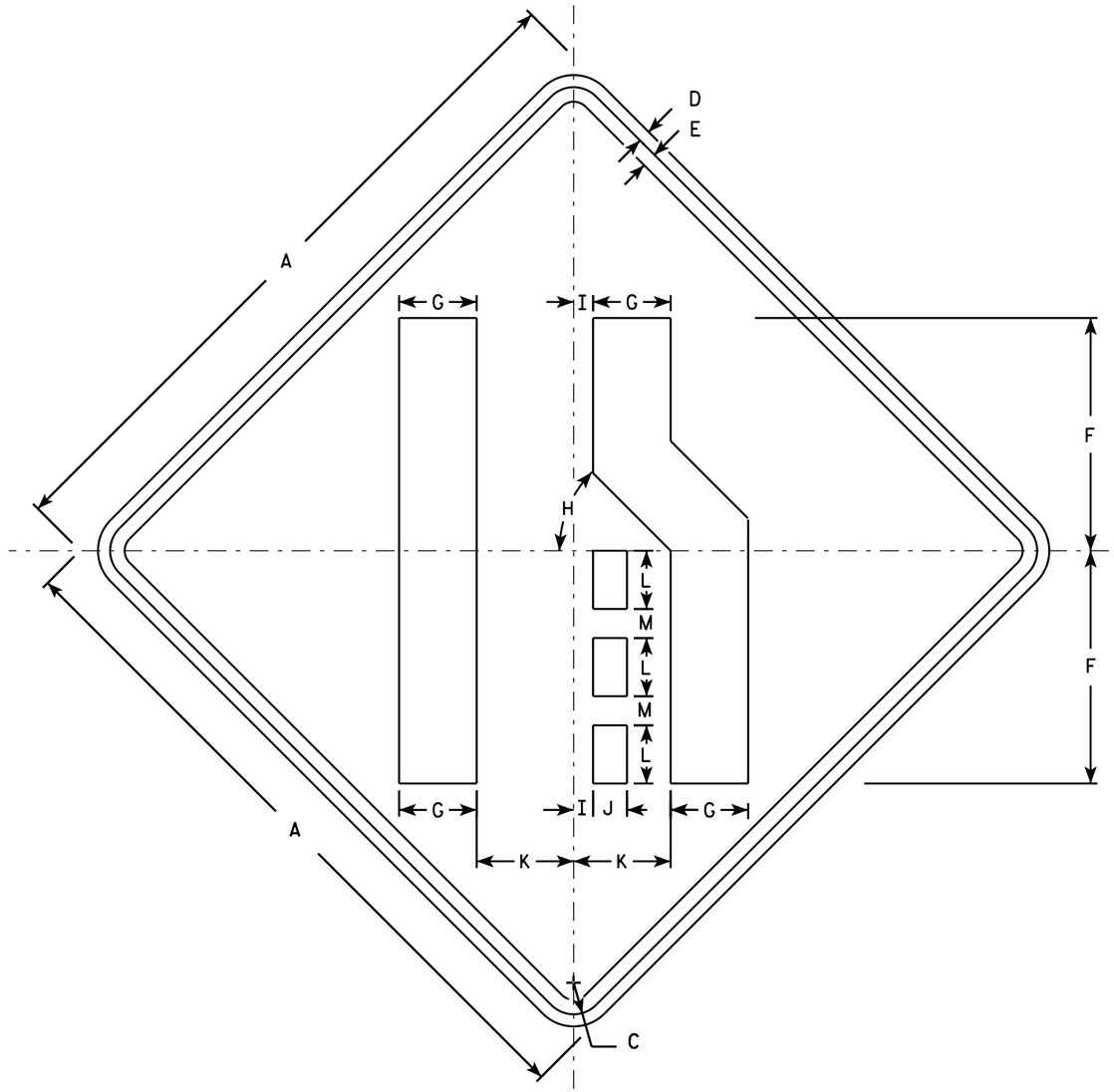
STANDARD SIGN
W01-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

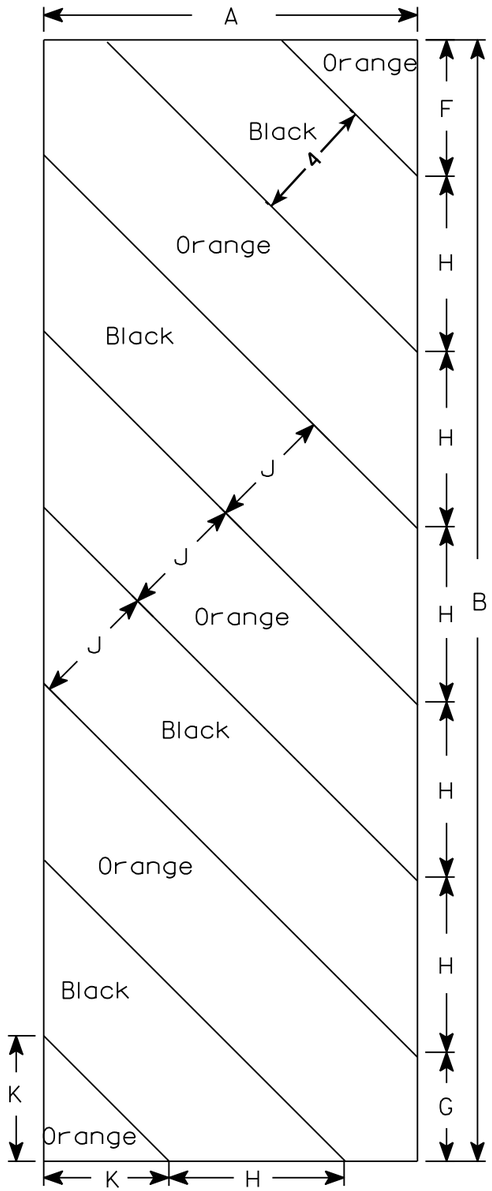
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

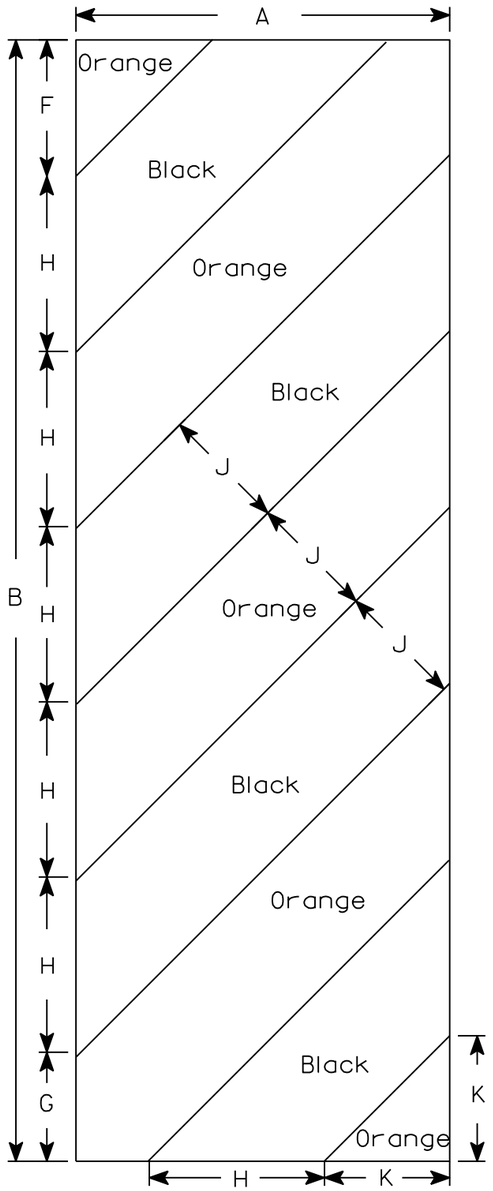
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 310 W04-2.1

PROJECT NO: | SHEET NO: E



W05-52L



W05-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

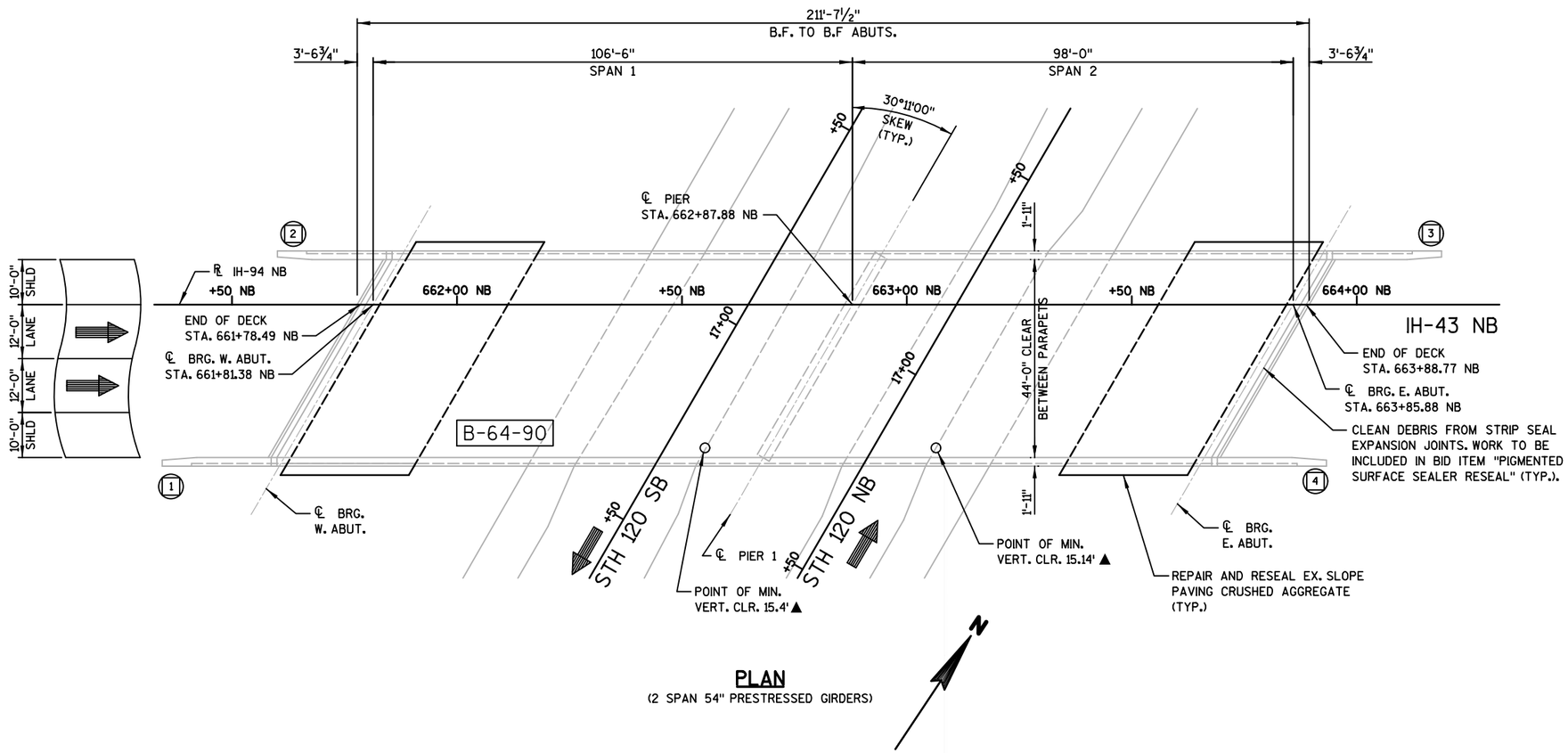
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W05-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

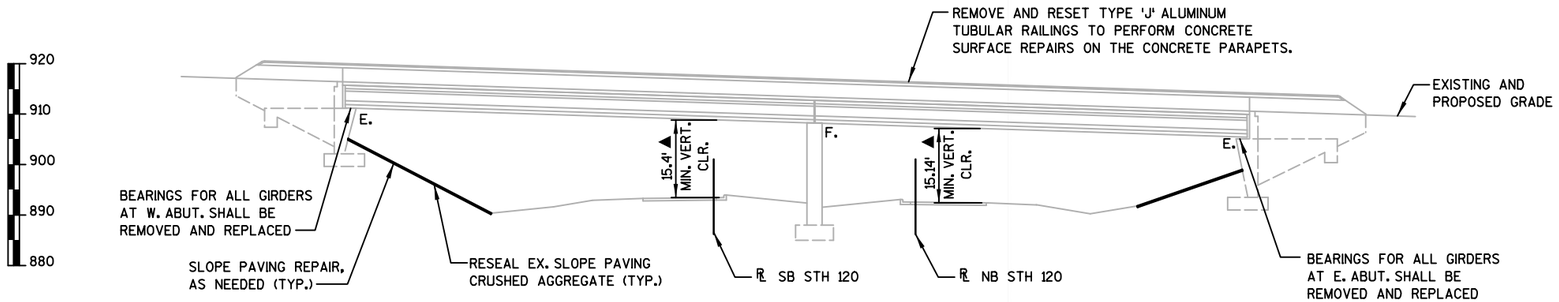
STATE PROJECT NUMBER

3694-00-71



PLAN

(2 SPAN 54" PRESTRESSED GIRDERS)



ELEVATION

(NORMAL TO SUBSTRUCTURE, LOOKING NORTH)

DESIGN DATA

LIVE LOAD (11/13/2013; FROM WISDOT HIGHWAY STRUCTURES INFORMATION SYSTEM):

DESIGN LOADING	HS20
INVENTORY RATING	HS15
OPERATING RATING	HS26
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	140 KIPS

MATERIAL PROPERTIES:

CONCRETE SUPERSTRUCTURE	f'c = 4,000 PSI
CONCRETE SUBSTRUCTURE	f'c = 3,500 PSI

TRAFFIC DATA

IH-94 NB
A.D.T. (2023) = 11,620
DESIGN SPEED = 75 MPH

STH 120
A.D.T. (2046) = 5,060
DESIGN SPEED = 60 MPH

LEGEND

(X) DENOTES WINGWALL NUMBER.

▲ MIN. VERTICAL CLEARANCE BASED ON INFORMATION OBTAINED FROM WISDOT HIGHWAY STRUCTURES INFORMATION SYSTEM DATED 10/27/2017.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. EXPANSION BEARING REPLACEMENT DETAILS

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE CONTACT:
AARON BONK (608) 261-0261

DESIGN CONSULTANT CONTACT:
EVAN CONSTANT (608) 251-4843

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 02/17/23
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN
EVAN J. CONSTANT
E-48226
MADISON
WI
PROFESSIONAL ENGINEER
12/1/22

STRUCTURE B-64-90

IH-43 NB OVER STH 120

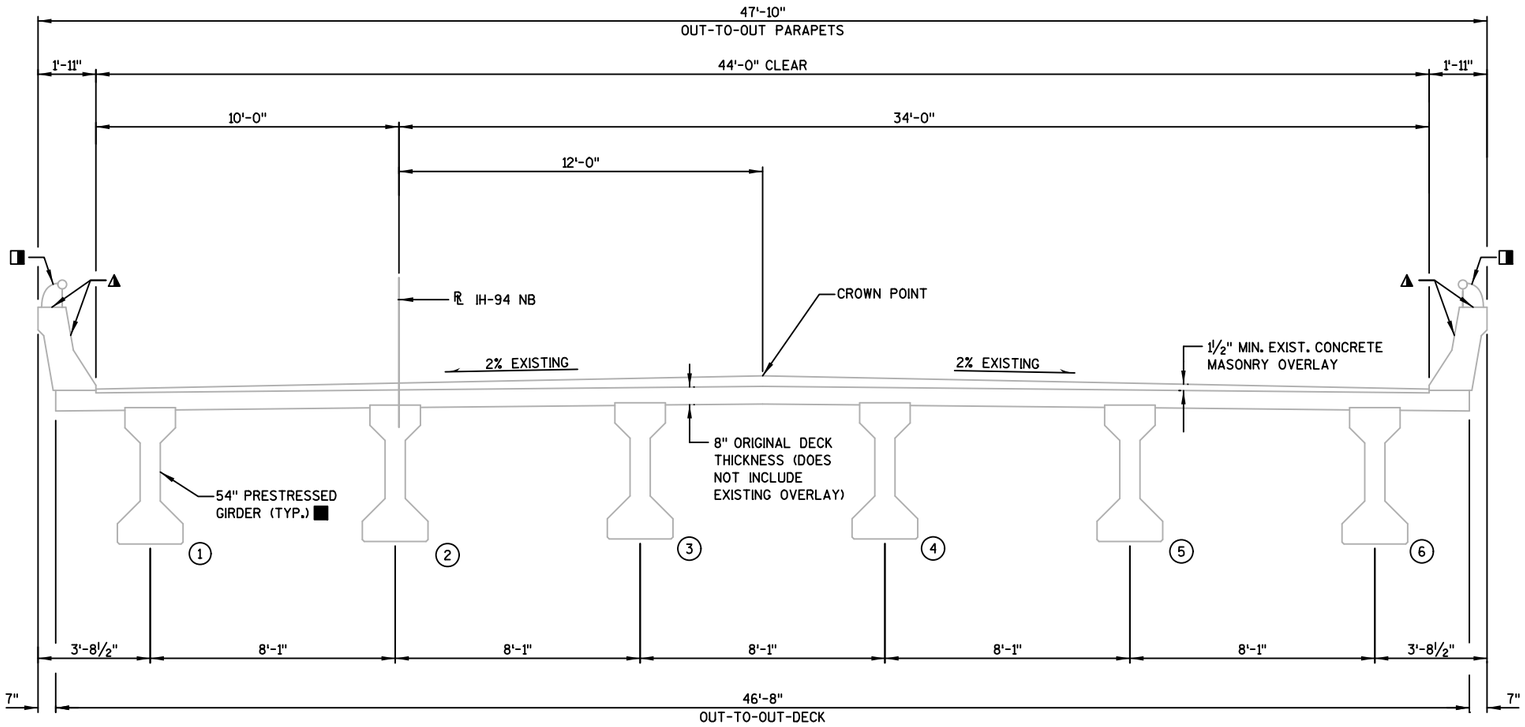
COUNTY WALWORTH	TOWN ~~CITY/VILLAGE~~ EAST TROY
DESIGN SPEC. REHABILITATION N/A	
DESIGNED BY KRB / DESIGN CK'D. EJC	DRAWN BY DTH / PLANS CK'D. EJC

GENERAL PLAN

SHEET 1 OF 3
312

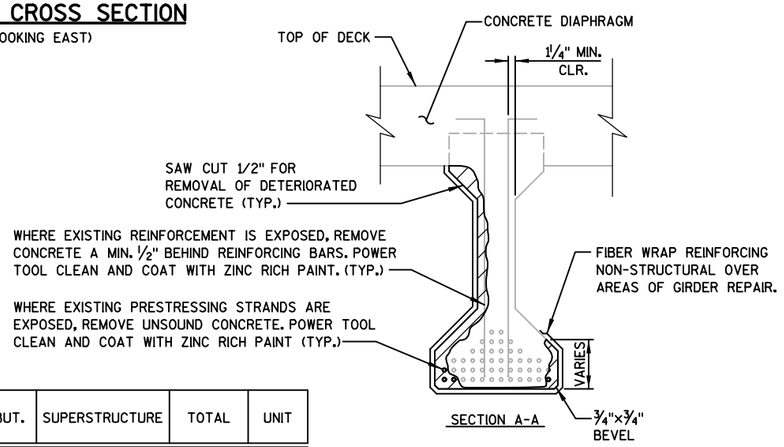
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STATE PROJECT NUMBER
3694-00-71



TYPICAL CROSS SECTION

(LOOKING EAST)



GENERAL NOTES

THE PROPOSED WORK INCLUDES REPLACING ALL BEARINGS AT THE ABUTMENTS, GIRDER END REPAIRS AND NON-STRUCTURAL FIBER WRAP REINFORCING, SUPERSTRUCTURE AND SUBSTRUCTURE CONCRETE SURFACE REPAIRS, REPAIRING AND RESEALING CRUSHED AGGREGATE SLOPE PAVING, AND PIGMENTED SURFACE SEALER RESEAL ON TOP, ENDS, AND ROADWAY FACES OF PARAPETS.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND SUBSEQUENT REHABILITATION PLANS.

MINIMUM VERTICAL CLEARANCE BASED ON THE INSPECTION REPORT DATED OCTOBER 27, 2017.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS ARE IN FEET.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A ½-INCH DEEP SAW CUT UNLESS SHOWN OTHERWISE.

PERFORM CONCRETE SURFACE REPAIR TO SUPERSTRUCTURE AND SUBSTRUCTURES AS DIRECTED BY THE FIELD ENGINEER. QUANTITY SHOWN IS APPROXIMATE.

BEVEL ALL EXPOSED EDGES OF CONCRETE TO MATCH THE EXISTING BEVELS, UNLESS OTHERWISE NOTED.

REPLACE MISSING WASHERS AND NUTS THAT ATTACH EXISTING TUBULAR RAILINGS TO CONCRETE WITH NEW STAINLESS STEEL WASHERS AND NUTS. TIGHTEN EXISTING NUTS THAT ARE LOOSE. THIS WORK IS INCIDENTAL TO "REMOVING AND RESETTING TUBULAR RAILING B-64-0090" BID ITEM.

PERFORM EXPANSION BEARING REPLACEMENT WORK UNDER STAGED CONSTRUCTION WHEN VEHICLE LOADS ARE NOT LOCATED OVER THE GIRDERS WHERE BEARING REPLACEMENT WORK IS TO OCCUR, OR AS APPROVED BY THE FIELD ENGINEER. SEE ROADWAY PLANS FOR STAGED CONSTRUCTION DETAILS.

EXISTING RAILING ANCHOR BOLTS DAMAGED DURING CONCRETE SURFACE REPAIR WORK SHALL BE REPLACED WITH NEW ADHESIVE ANCHORED STAINLESS STEEL ANCHORS. MATCH EXISTING DIAMETER, EMBED 7". COST IS INCIDENTAL TO "CONCRETE SURFACE REPAIR" WORK.

LEGEND

(X) DENOTES GIRDER NUMBER.

▲ PROVIDE "PIGMENTED SURFACE SEALER RESEAL" AT TOP, ENDS, AND ROADWAY FACES OF CONCRETE PARAPET.

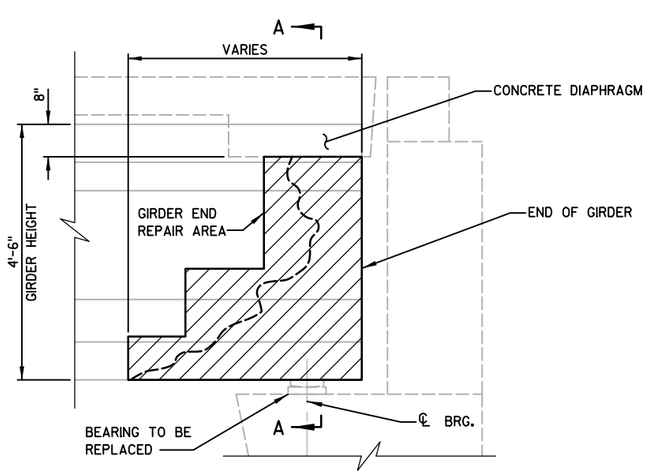
◨ REMOVE AND RESET TYPE 'J' ALUMINUM TUBULAR RAILING TO PERFORM CONCRETE SURFACE REPAIRS ON THE CONCRETE PARAPET.

■ PROVIDE GIRDER END REPAIRS AT LOCATIONS DIRECTED BY ENGINEER. ANTICIPATED LOCATIONS ARE GIRDERS 1 AND 3 AT THE WEST ABUTMENT AND GIRDERS 1,2,4,5, AND 6 AT THE EAST ABUTMENT. ADDITIONALLY, PERFORM GIRDER REPAIR AT THE BOTTOM FLANGE ON THE NORTH SIDE OF GIRDER 1 IN SPAN 1 AND GIRDER 3 IN SPAN 2 NEAR THE PIER. SEE DETAIL THIS SHEET.

TOTAL ESTIMATE QUANTITIES

BID ITEM NUMBER	BID ITEMS	W. ABUT	PIER	E. ABUT.	SUPERSTRUCTURE	TOTAL	UNIT
203.0330	DEBRIS CONTAINMENT B-64-0090	---	---	---	---	1	EACH
502.3205	PIGMENTED SURFACE SEALER RESEAL	23	---	23	181	227	SY
506.2610	BEARING PADS ELASTOMERIC LAMINATED	6	---	6	---	12	EACH
506.7050.S.01	REMOVING BEARINGS B-64-0090	6	---	6	---	12	EACH
509.1500	CONCRETE SURFACE REPAIR	20	70	30	415	535	SF
513.9006.S.01	REMOVING AND RESETTING TUBULAR RAILING B-64-0090	---	---	---	1	1	EACH
604.9010.S	SLOPE PAVING REPAIR CRUSHED AGGREGATE	5	---	5	---	10	CY
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	230	---	170	---	400	SY
SPV.0165.02	FIBER WRAP REINFORCING NON-STRUCTURAL	40	---	130	---	170	SF
SPV.0165.03	CONCRETE GIRDER END REPAIR	35	---	118	---	153	SF
	NON-BID ITEMS						
	FILLER	---	---	---	---	1/2", 3/4"	SIZE

TYPICAL PRESTRESSED GIRDER END REPAIR AT ABUTMENT



EACH GIRDER END REPAIRED IS PAID PER SQUARE FOOT.

REMOVAL AREA SHOWN IS FOR REFERENCE ONLY. LIMITS OF "CONCRETE GIRDER END REPAIR" AT EACH LOCATION ARE TO BE COORDINATED WITH THE FIELD ENGINEER.

EXERCISE PROPER CARE WHEN SAWING AND REMOVING UNSOUND CONCRETE FROM THE GIRDERS TO NOT DAMAGE EMBEDDED REINFORCING STEEL OR PRESTRESSED STRANDS.

PERFORM BEARING REMOVAL PRIOR TO CONCRETE GIRDER END REPAIR WORK.

PERFORM "FIBER WRAP REINFORCING NON-STRUCTURAL" AFTER GIRDER END REPAIRS HAVE BEEN COMPLETED. FIBER WRAP REINFORCING SHALL EXTEND A MINIMUM 6" PAST LIMITS OF GIRDER REPAIR.

INSTALL NEW ELASTORMERIC LAMINATED BEARINGS AFTER "FIBER WRAP REINFORCING NON-STRUCTURAL" WORK HAS BEEN COMPLETED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-64-90

DRAWN BY DTH | PLANS CK'D. EJC

CROSS SECTION AND QUANTITIES

SHEET 2
313

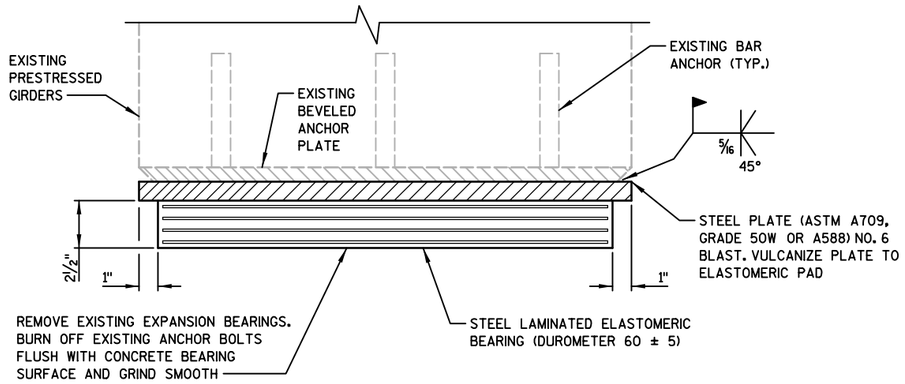
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8

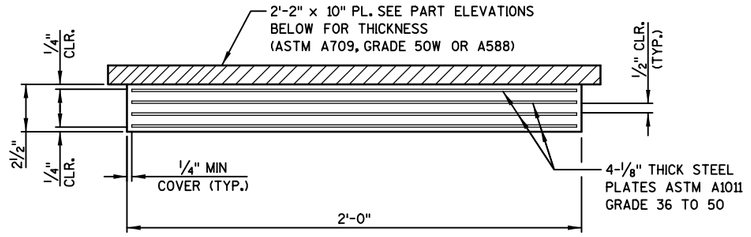
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STATE PROJECT NUMBER

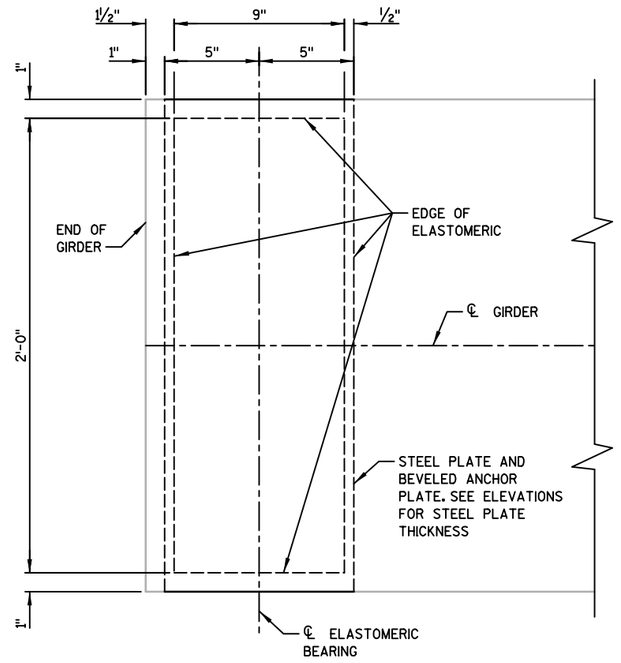
3694-00-71



FRONT ELEVATION



SECTION THRU ELASTOMERIC BEARING



PLAN VIEW

NOTES

ALL MATERIAL USED FOR BEARINGS SHALL BE PAID AT THE UNIT PRICE BID FOR "BEARING PADS ELASTOMERIC LAMINATED".

GRIND EXIST. WELD THAT ATTACHED EXIST. BEARING TOP PLATE TO EXIST. BEVELED ANCHOR PLATE. GRIND AFFECTED AREAS SMOOTH.

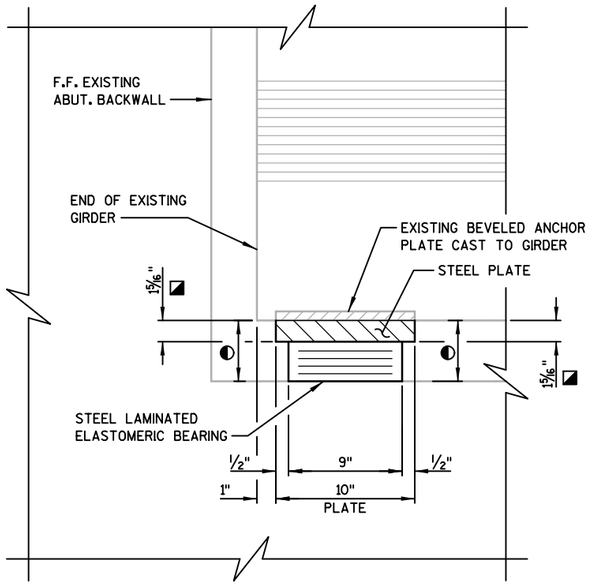
WELDING PROCEDURES SHALL BE ESTABLISHED BY THE CONTRACTOR TO RESTRICT THE MAXIMUM TEMPERATURE REACHED BY SURFACES IN CONTACT WITH ELASTOMER TO 200°F (93°C). TEMPERATURES SHALL BE CONTROLLED BY TEMPERATURE INDICATING WAX PENCILS OR OTHER SUITABLE MEANS APPROVED BY THE ENGINEER.

LEGEND

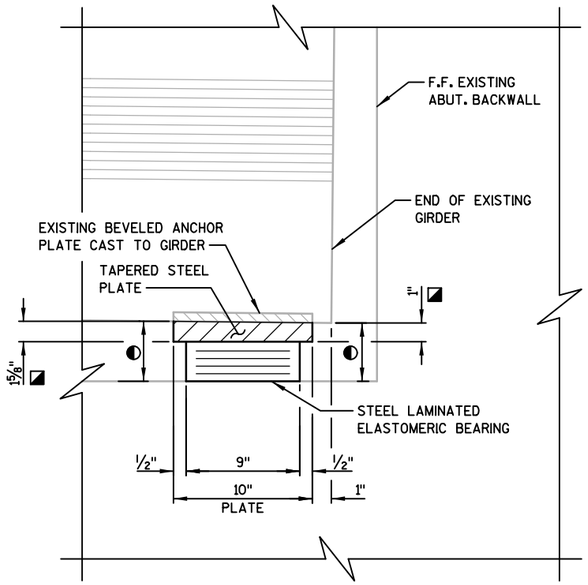
◐ FIELD MEASURE EXISTING BEARING HEIGHT AT PROPOSED FRONT AND BACK EDGES OF NEW BEARINGS PRIOR TO FABRICATING NEW BEARINGS AND ADJUST TOP PLATE THICKNESSES AS NEEDED.

◪ MODIFY TOP PLATE THICKNESS AS NEEDED AFTER FIELD VERIFYING EXISTING BEARING HEIGHTS.

EXPANSION BEARING REPLACEMENT - PRESTRESSED GIRDERS ELASTOMERIC BEARINGS



PART ELEVATION AT WEST ABUTMENT
(SHOWING FLAT STEEL PLATE)



PART ELEVATION AT EAST ABUTMENT
(SHOWING TAPERED STEEL PLATE)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-64-90

DRAWN BY DTH | PLANS CK'D. EJC

EXPANSION BEARING REPLACEMENT DETAILS

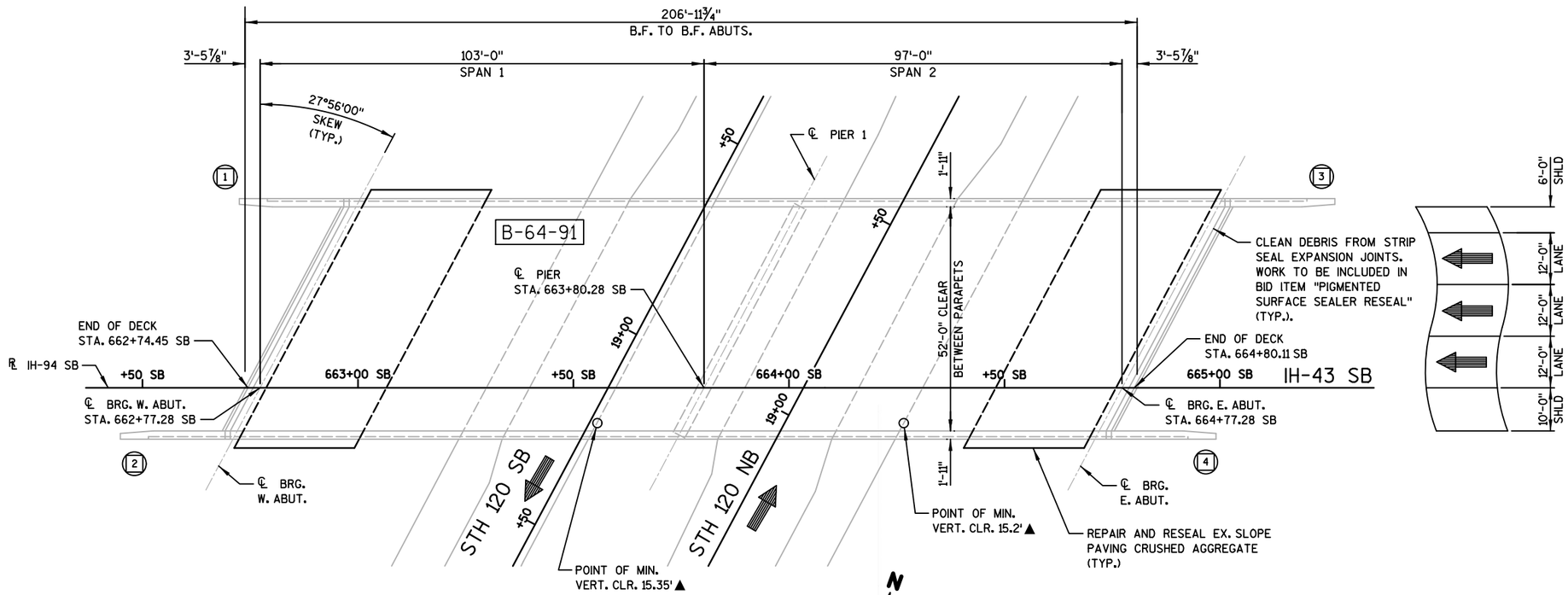
SHEET 3
314

8

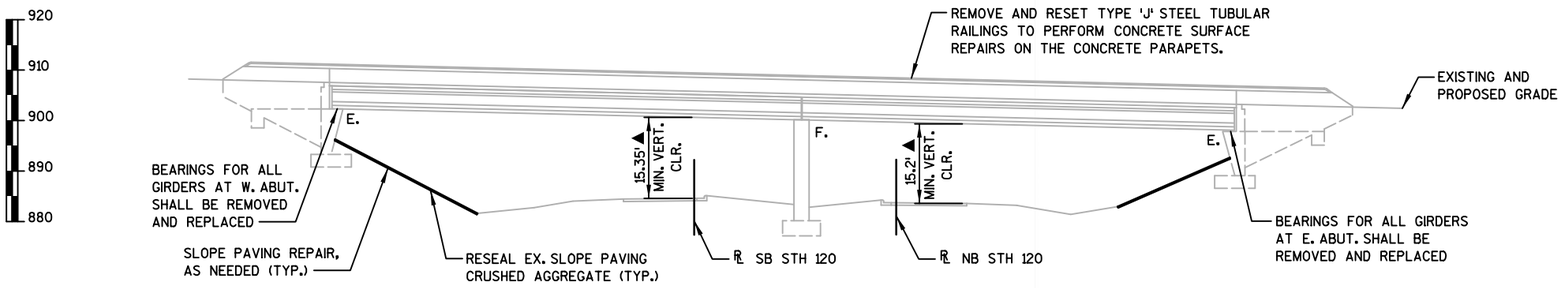
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STATE PROJECT NUMBER
3694-00-71



PLAN
(2 SPAN 54" PRESTRESSED GIRDERS)



ELEVATION
(NORMAL TO SUBSTRUCTURE, LOOKING NORTH)

DESIGN DATA

LIVE LOAD (8/22/2013; FROM WISDOT HIGHWAY STRUCTURES INFORMATION SYSTEM):

DESIGN LOADING	HS20
INVENTORY RATING	HS12
OPERATING RATING	HS19
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	170 KIPS

MATERIAL PROPERTIES:

CONCRETE SUPERSTRUCTURE	f'c = 4,000 PSI
CONCRETE SUBSTRUCTURE	f'c = 3,500 PSI

TRAFFIC DATA

IH-94 SB
A.D.T. (2023) = 14,215
DESIGN SPEED = 75 MPH

STH 120
A.D.T. (2043) = 5,060
DESIGN SPEED = 60 MPH

LEGEND

(X) DENOTES WINGWALL NUMBER.

▲ MIN. VERTICAL CLEARANCE BASED ON INFORMATION OBTAINED FROM WISDOT HIGHWAY STRUCTURES INFORMATION SYSTEM DATED 10/9/2017.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. EXPANSION BEARING REPLACEMENT DETAILS

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE CONTACT:
AARON BONK (608) 261-0261

DESIGN CONSULTANT CONTACT:
EVAN CONSTANT (608) 251-4843

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED _____ SDR 02/17/23
CHIEF STRUCTURES DESIGN ENGINEER — DATE

WISCONSIN
EVAN J. CONSTANT
E-48226
MADISON
WI
PROFESSIONAL ENGINEER
12/1/22

STRUCTURE B-64-91

IH-43 SB OVER STH 120

COUNTY: WALWORTH	TOWN/~~CITY/VILLAGE~~: EAST TROY
DESIGN SPEC.: REHABILITATION N/A	

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
KRB	EJC	DTH	EJC

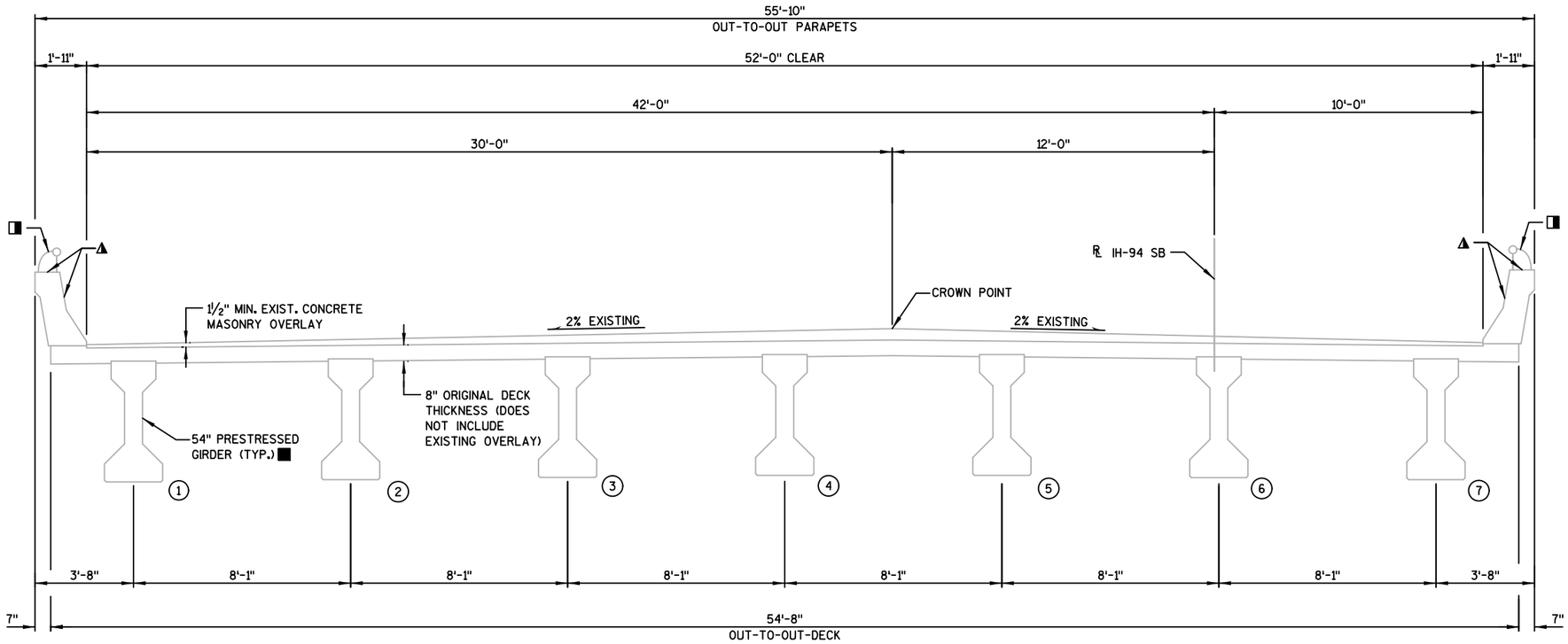
GENERAL PLAN

SHEET 1 OF 3
315

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STATE PROJECT NUMBER

3694-00-71



GENERAL NOTES

THE PROPOSED WORK INCLUDES REPLACING ALL BEARINGS AT THE ABUTMENTS, GIRDER END REPAIRS AND NON-STRUCTURAL FIBER WRAP REINFORCING, SUPERSTRUCTURE AND SUBSTRUCTURE CONCRETE SURFACE REPAIRS, REPAIRING AND RESEALING CRUSHED AGGREGATE SLOPE PAVING, AND PIGMENTED SURFACE SEALER RESEAL ON TOP, ENDS, AND ROADWAY FACES OF PARAPETS.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND SUBSEQUENT REHABILITATION PLANS.

MINIMUM VERTICAL CLEARANCE BASED ON THE INSPECTION REPORT DATED OCTOBER 9, 2017.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS ARE IN FEET.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A ½-INCH DEEP SAW CUT UNLESS SHOWN OTHERWISE.

PERFORM CONCRETE SURFACE REPAIR TO SUPERSTRUCTURE AND SUBSTRUCTURES AS DIRECTED BY THE FIELD ENGINEER. QUANTITY SHOWN IS APPROXIMATE.

BEVEL ALL EXPOSED EDGES OF CONCRETE TO MATCH THE EXISTING BEVELS, UNLESS OTHERWISE NOTED.

REPLACE MISSING WASHERS AND NUTS THAT ATTACH EXISTING TUBULAR RAILINGS TO CONCRETE PARAPETS WITH NEW STAINLESS STEEL WASHERS AND NUTS. TIGHTEN EXISTING NUTS THAT ARE LOOSE. THIS WORK IS INCIDENTAL TO "REMOVING AND RESETTING TUBULAR RAILING B-64-0091" BID ITEM.

PERFORM EXPANSION BEARING REPLACEMENT WORK UNDER STAGED CONSTRUCTION WHEN VEHICLE LOADS ARE NOT LOCATED OVER THE GIRDERS WHERE BEARING REPLACEMENT WORK IS TO OCCUR, OR AS APPROVED BY THE FIELD ENGINEER. SEE ROADWAY PLANS FOR STAGED CONSTRUCTION DETAILS.

EXISTING RAILING ANCHOR BOLTS DAMAGED DURING CONCRETE SURFACE REPAIR WORK SHALL BE REPLACED WITH NEW ADHESIVE ANCHORED STAINLESS STEEL ANCHORS. MATCH EXISTING DIAMETER, EMBED 7". COST IS INCIDENTAL TO "CONCRETE SURFACE REPAIR" WORK.

LEGEND

(X) DENOTES GIRDER NUMBER.

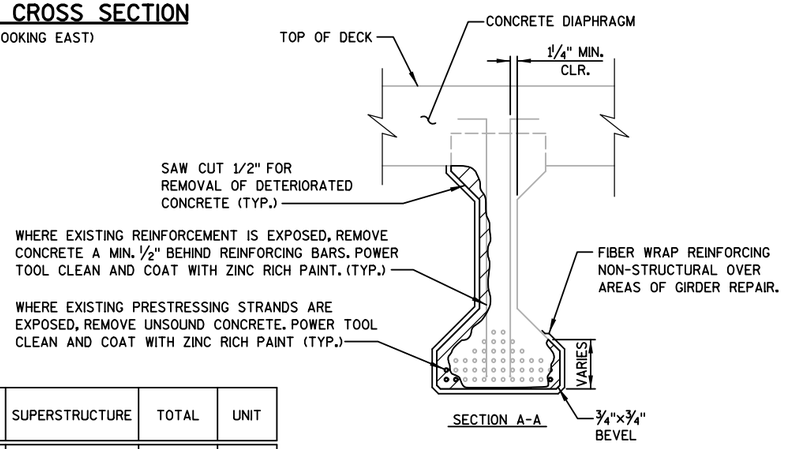
▲ PROVIDE "PIGMENTED SURFACE SEALER RESEAL" AT TOP, ENDS, AND ROADWAY FACES OF CONCRETE PARAPET.

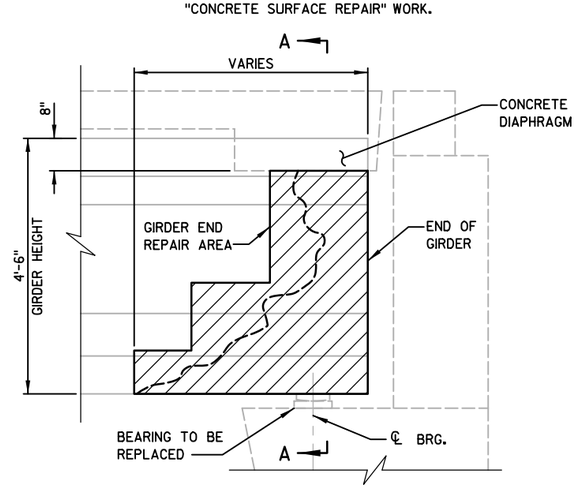
◨ REMOVE AND RESET TYPE 'J' ALUMINUM TUBULAR RAILING TO PERFORM CONCRETE SURFACE REPAIRS ON THE CONCRETE PARAPET.

■ PROVIDE GIRDER END REPAIRS AT LOCATIONS DIRECTED BY ENGINEER. ANTICIPATED LOCATIONS ARE AT GIRDERS 1, 3 AND 4 AT THE WEST ABUTMENT AND GIRDERS 1, 5, 6, AND 7 AT THE EAST ABUTMENT. SEE DETAIL THIS SHEET.

TYPICAL CROSS SECTION

(LOOKING EAST)





TOTAL ESTIMATE QUANTITIES

BID ITEM NUMBER	BID ITEMS	W. ABUT	PIER	E. ABUT.	SUPERSTRUCTURE	TOTAL	UNIT
203.0330	DEBRIS CONTAINMENT B-64-0091	---	---	---	---	1	EACH
502.3205	PIGMENTED SURFACE SEALER RESEAL	23	---	23	177	223	SY
506.2610	BEARING PADS ELASTOMERIC LAMINATED	7	---	7	---	14	EACH
506.7050.S.02	REMOVING BEARINGS B-64-0091	7	---	7	---	14	EACH
509.1500	CONCRETE SURFACE REPAIR	20	83	20	270	393	SF
513.9006.S.02	REMOVING AND RESETTING TUBULAR RAILING B-64-0091	---	---	---	1	1	EACH
604.9010.S	SLOPE PAVING REPAIR CRUSHED AGGREGATE	5	---	5	---	10	CY
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	250	---	200	---	450	SY
SPV.0165.02	FIBER WRAP REINFORCING NON-STRUCTURAL	40	---	50	---	90	SF
SPV.0165.03	CONCRETE GIRDER END REPAIR	33	---	40	---	73	SF
	NON-BID ITEMS						
	FILLER	---		---	---	1/2", 3/4"	SIZE

TYPICAL PRESTRESSED GIRDER END REPAIR AT ABUTMENT

EACH GIRDER END REPAIRED IS PAID PER SQUARE FOOT.

REMOVAL AREA SHOWN IS FOR REFERENCE ONLY. LIMITS OF "CONCRETE GIRDER END REPAIR" AT EACH LOCATION ARE TO BE COORDINATED WITH THE FIELD ENGINEER.

EXERCISE PROPER CARE WHEN SAWING AND REMOVING UNSOUND CONCRETE FROM THE GIRDERS TO NOT DAMAGE EMBEDDED REINFORCING STEEL OR PRESTRESSED STRANDS.

PERFORM BEARING REMOVAL PRIOR TO CONCRETE GIRDER END REPAIR WORK.

PERFORM "FIBER WRAP REINFORCING NON-STRUCTURAL" AFTER GIRDER END REPAIRS HAVE BEEN COMPLETED. FIBER WRAP REINFORCING SHALL EXTEND A MINIMUM 6" PAST LIMITS OF GIRDER REPAIR.

INSTALL NEW ELASTORMERIC LAMINATED BEARINGS AFTER "FIBER WRAP REINFORCING NON-STRUCTURAL" WORK HAS BEEN COMPLETED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-64-91

DRAWN BY DTH | PLANS CK'D. EJC

CROSS SECTION AND QUANTITIES

SHEET 2
316

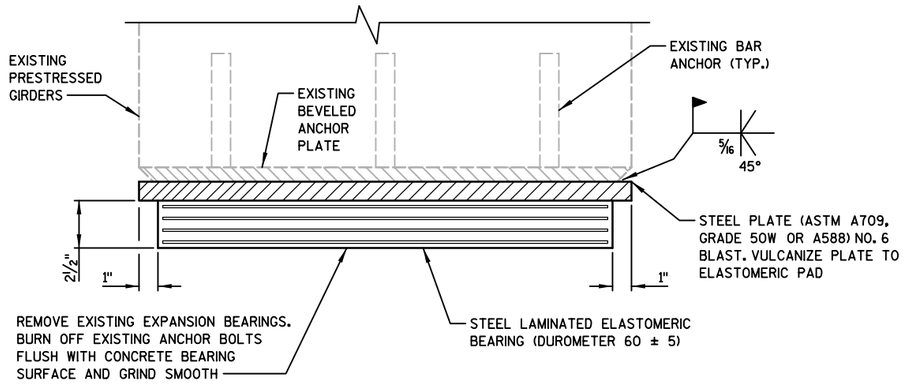
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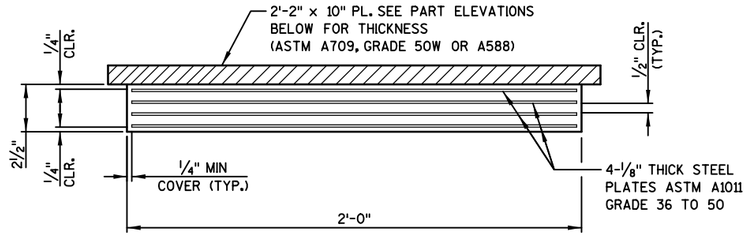
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STATE PROJECT NUMBER

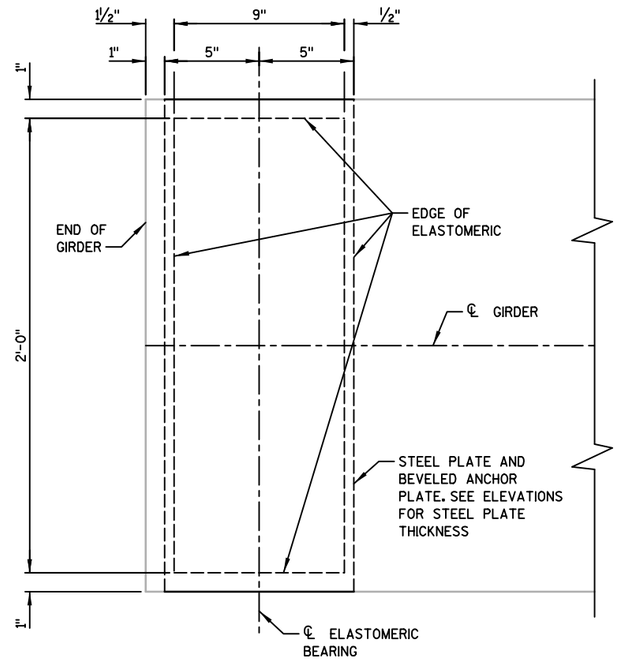
3694-00-71



FRONT ELEVATION



SECTION THRU ELASTOMERIC BEARING



PLAN VIEW

NOTES

ALL MATERIAL USED FOR BEARINGS SHALL BE PAID AT THE UNIT PRICE BID FOR "BEARING PADS ELASTOMERIC LAMINATED".

GRIND EXIST. WELD THAT ATTACHED EXIST. BEARING TOP PLATE TO EXIST. BEVELED ANCHOR PLATE. GRIND AFFECTED AREAS SMOOTH.

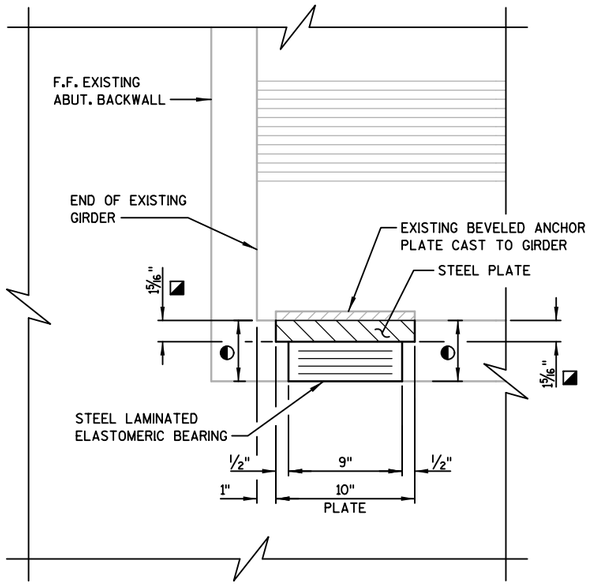
WELDING PROCEDURES SHALL BE ESTABLISHED BY THE CONTRACTOR TO RESTRICT THE MAXIMUM TEMPERATURE REACHED BY SURFACES IN CONTACT WITH ELASTOMER TO 200°F (93°C). TEMPERATURES SHALL BE CONTROLLED BY TEMPERATURE INDICATING WAX PENCILS OR OTHER SUITABLE MEANS APPROVED BY THE ENGINEER.

LEGEND

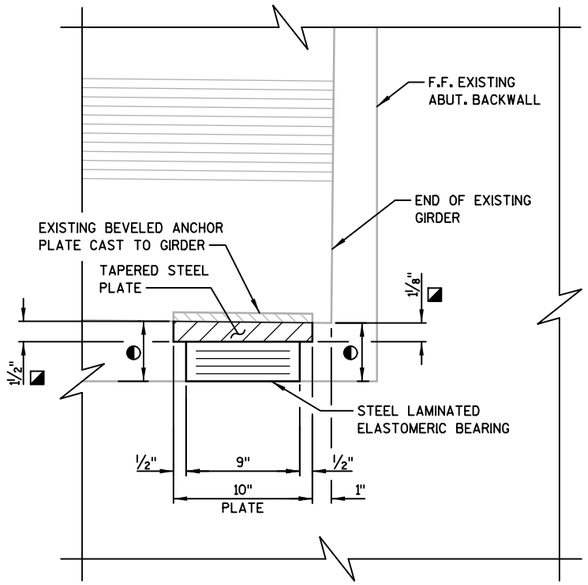
◐ FIELD MEASURE EXISTING BEARING HEIGHT AT PROPOSED FRONT AND BACK EDGES OF NEW BEARINGS PRIOR TO FABRICATING NEW BEARINGS AND ADJUST TOP PLATE THICKNESSES AS NEEDED.

◪ MODIFY TOP PLATE THICKNESS AS NEEDED AFTER FIELD VERIFYING EXISTING BEARING HEIGHTS.

EXPANSION BEARING REPLACEMENT - PRESTRESSED GIRDERS ELASTOMERIC BEARINGS



PART ELEVATION AT WEST ABUTMENT
(SHOWING FLAT STEEL PLATE)



PART ELEVATION AT EAST ABUTMENT
(SHOWING TAPERED STEEL PLATE)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-64-91

DRAWN BY DTH | PLANS CK'D. EJC

EXPANSION BEARING REPLACEMENT DETAILS

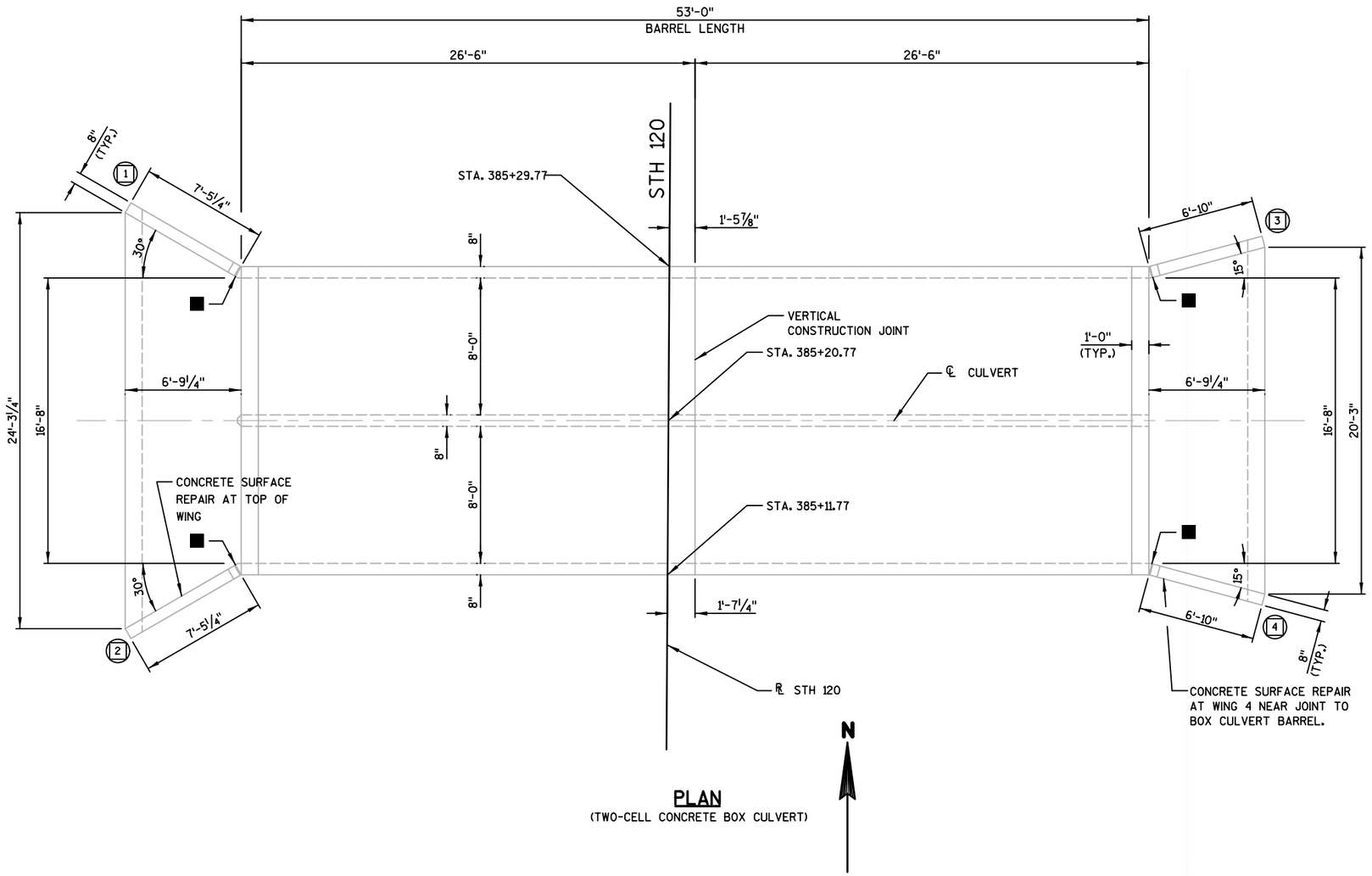
SHEET 3
317

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STATE PROJECT NUMBER
3694-00-71



PLAN
(TWO-CELL CONCRETE BOX CULVERT)

DESIGN DATA

LIVE LOAD

DESIGN LOADING _____ HS20
(PER ORIGINAL STRUCTURE PLANS)

EARTH LOAD:

EXISTING CAST-IN-PLACE BOX CULVERT
DESIGNED FOR 1.8 FEET OF FILL

MATERIAL PROPERTIES:

CONCRETE SUBSTRUCTURE _____ f'c = 3,500 PSI

LIST OF DRAWINGS

1. GENERAL PLAN, NOTES & QUANTITIES

TRAFFIC DATA

STH 120
A.D.T. (2046) = 5,060
DESIGN SPEED = 60 MPH

LEGEND

(X) DENOTES WINGWALL NUMBER.

■ STRIP AND RESEAL CAULK AT WING/BARREL JOINT WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, ENTIRE LENGTH OF JOINT (HOLD ⅛" BELOW SURFACE OF CONCRETE).

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE CONTACT:
AARON BONK (608) 261-0261

DESIGN CONSULTANT CONTACT:
EVAN CONSTANT (608) 251-4843

WISCONSIN
EVAN J. CONSTANT
E-48226
MADISON
WI
PROFESSIONAL ENGINEER
12/1/22

GENERAL NOTES

THE PROPOSED WORK INCLUDES CONCRETE SURFACE REPAIR AT WINGS 2 AND 4 AND STRIPPING AND RESEALING THE CAULK ON THE VERTICAL AND HORIZONTAL JOINTS BETWEEN THE WINGWALLS AND CULVERT BOX.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES.

ALL ELEVATIONS ARE IN FEET.

BEVEL EXPOSED EDGES OF CONCRETE TO MATCH EXISTING BEVELS, UNLESS OTHERWISE NOTED.

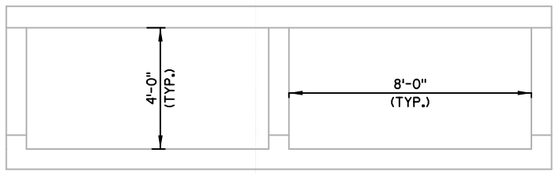
ALL CONCRETE REMOVAL SHALL BE DEFINED BY ½-INCH DEEP SAW CUT OR AS NOTED ON PLANS.

PERFORM CONCRETE SURFACE REPAIR AS DIRECTED BY THE FIELD ENGINEER. QUANTITY SHOWN IS APPROXIMATE.

STRIPPING AND RESEALING THE CAULK ON THE VERTICAL AND HORIZONTAL JOINTS BETWEEN THE WINGWALLS AND CULVERT BOX SHALL BE INCIDENTAL TO "CONCRETE SURFACE REPAIR".

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	TOTAL	UNIT
509.1500	CONCRETE SURFACE REPAIR	10	SF



TYPICAL SECTION THRU BOX

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED _____ SDR 02/15/23
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-64-3

STH 120 OVER SUGAR CREEK

COUNTY	TOWN/~~CITY/VILLAGE~~
WALWORTH	SPRING PRAIRIE

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
KRB	EJC	DTH	EJC

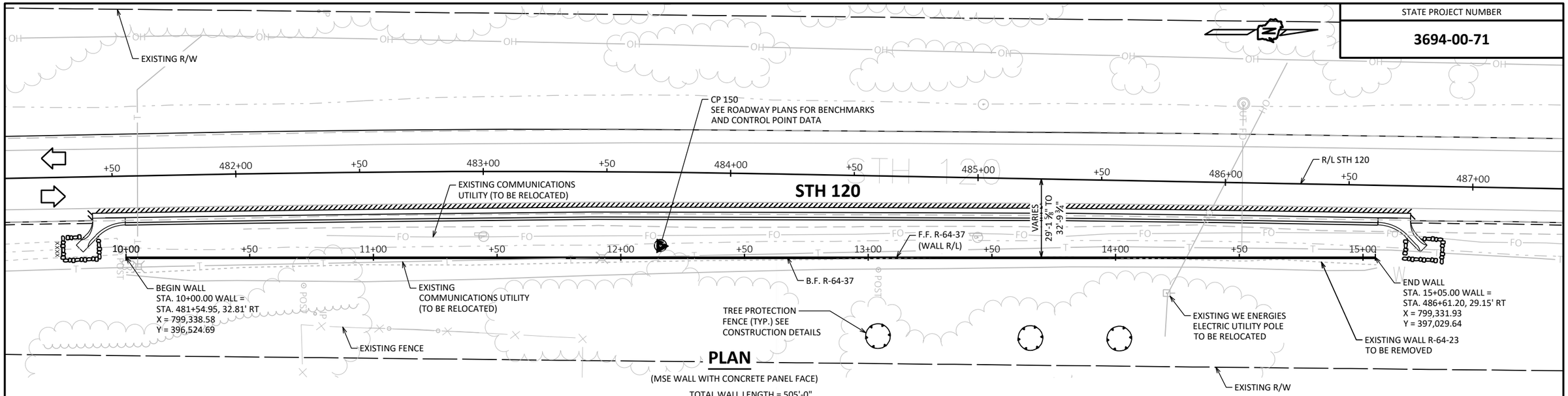
GENERAL PLAN, NOTES & QUANTITES

SHEET 1 OF 1
318

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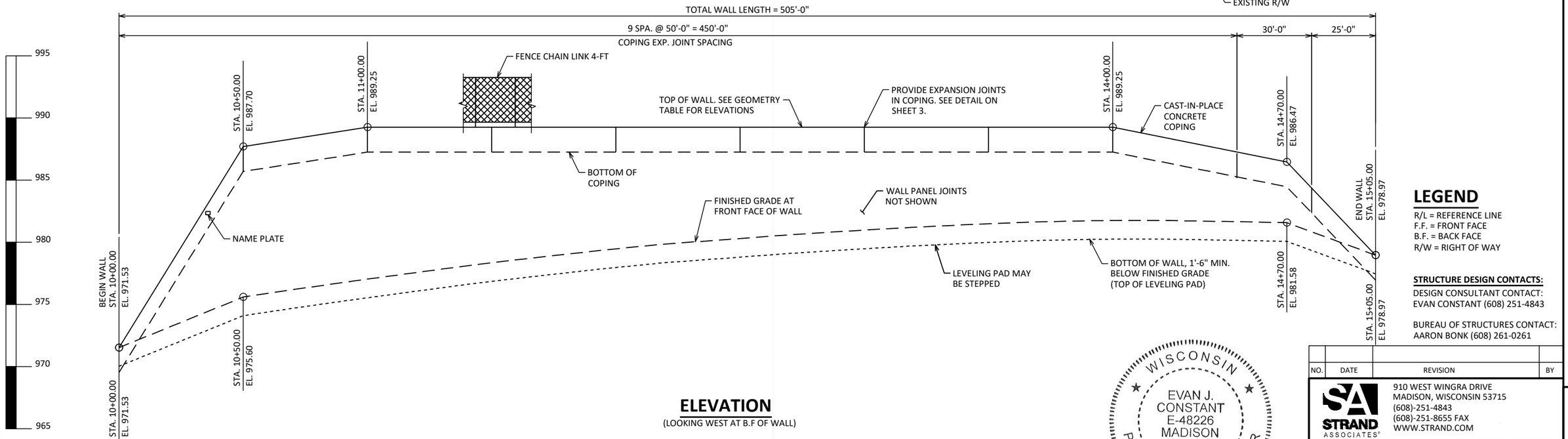
STATE PROJECT NUMBER

3694-00-71



PLAN

(MSE WALL WITH CONCRETE PANEL FACE)



ELEVATION

(LOOKING WEST AT B.F OF WALL)

LEGEND

R/L = REFERENCE LINE
F.F. = FRONT FACE
B.F. = BACK FACE
R/W = RIGHT OF WAY

STRUCTURE DESIGN CONTACTS:

DESIGN CONSULTANT CONTACT:
EVAN CONSTANT (608) 251-4843

BUREAU OF STRUCTURES CONTACT:
AARON BONK (608) 261-0261

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-64-37".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN IN THIS PLAN.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED IN FRONT OF AND BEHIND WALL AS SHOWN ON THE WALL PLAN AND ROADWAY CROSS SECTIONS.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30 DEGREES WITHOUT CERTIFIED TEST VALUES.

TRAFFIC DATA:

A.A.D.T. (2026) = 4,490
A.A.D.T. (2046) = 5,060
DESIGN SPEED = 60 MPH

MATERIAL PROPERTIES:

CONCRETE MASONRY (COPING) — f'c = 3,500 P.S.I.
COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.
PRECAST CONCRETE WALL PANELS — f'c = 4,000 P.S.I.

WISCONSIN
EVAN J. CONSTANT
E-48226
MADISON
WI
PROFESSIONAL ENGINEER
1/25/2023

LIST OF DRAWINGS:

1 GENERAL PLAN
2 TYPICAL SECTION, QUANTITIES, AND NOTES
3 WALL DETAILS
4 FENCE DETAILS
5 SUBSURFACE EXPLORATION

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608)-251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 02/15/23
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-64-37

WALL EAST SIDE OF STH 120

COUNTY	TOWN/~~CITY/VILLAGE~~
WALWORTH	EAST TROY

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATION

DESIGNED BY	KRB	DESIGNED CK'D	EJC	DRAWN BY	DTH	PLANS CK'D	EJC

GENERAL PLAN

SHEET 1 OF 5
319

SCALE =
I.D.
DATE:

STATE PROJECT NUMBER

3694-00-71

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
204.9060.S.02	REMOVING RETAINING WALL R-64-23	EACH	1
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	515
616.0204	FENCE CHAIN LINK 4-FT	LF	505
SPV.0165.01	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-64-37	SF	4,955
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	3/4"
	NAME PLATE	EACH	1
	EXPANDED POLYSTYRENE	SIZE	1"

GEOMETRY TABLE

WALL STA.	ROADWAY STA.	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
10+00.00	481+54.95	32.81	971.53	971.53
10+25.00	481+79.95	33.29	979.61	973.56
10+50.00	482+04.97	33.77	987.70	975.60
10+75.00	482+30.11	34.18	988.48	976.34
11+00.00	482+55.26	34.47	989.25	977.04
11+25.00	482+80.41	34.66	989.25	977.71
11+50.00	483+05.57	34.74	989.25	978.36
11+75.00	483+30.72	34.70	989.25	978.93
12+00.00	483+55.87	34.56	989.25	979.47
12+25.00	483+81.02	34.31	989.25	979.94
12+50.00	484+06.17	33.94	989.25	980.31
12+75.00	484+31.24	33.49	989.25	980.67
13+00.00	484+56.23	33.02	989.25	980.98
13+25.00	484+81.23	32.54	989.25	981.26
13+50.00	485+06.22	32.07	989.25	981.49
13+75.00	485+31.22	31.60	989.25	981.67
14+00.00	485+56.21	31.13	989.25	981.75
14+25.00	485+81.21	30.66	988.26	981.74
14+50.00	486+06.21	30.19	987.26	981.66
14+70.00	486+26.20	29.81	986.47	981.58
14+75.00	486+31.20	29.72	985.40	981.21
15+00.00	486+56.20	29.25	980.04	979.39
15+05.00	486+61.20	29.14	978.97	978.97

SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
(CLAY) RETAINED SOIL *	127	28	50
BORING B-1			
SANDY SILT EL. 976.3 — EL. 974.0	127	34	0
SANDY LEAN CLAY EL. 974.0 — EL. 947.0	127	28	50
BORING B-2			
SANDY LEAN CLAY EL. 972.8 — EL. 945.1	127	28	50
BORING B-3			
SANDY LEAN CLAY EL. 975.4 — EL. 946.0	127	28	50
BORING B-4			
SANDY LEAN CLAY EL. 972.4 — EL. 952.0	127	28	50
SANDY SILT EL. 952.0 — EL. 944.4	127	34	0

* DESIGN WALL FOR THESE VALUES

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-64-37" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

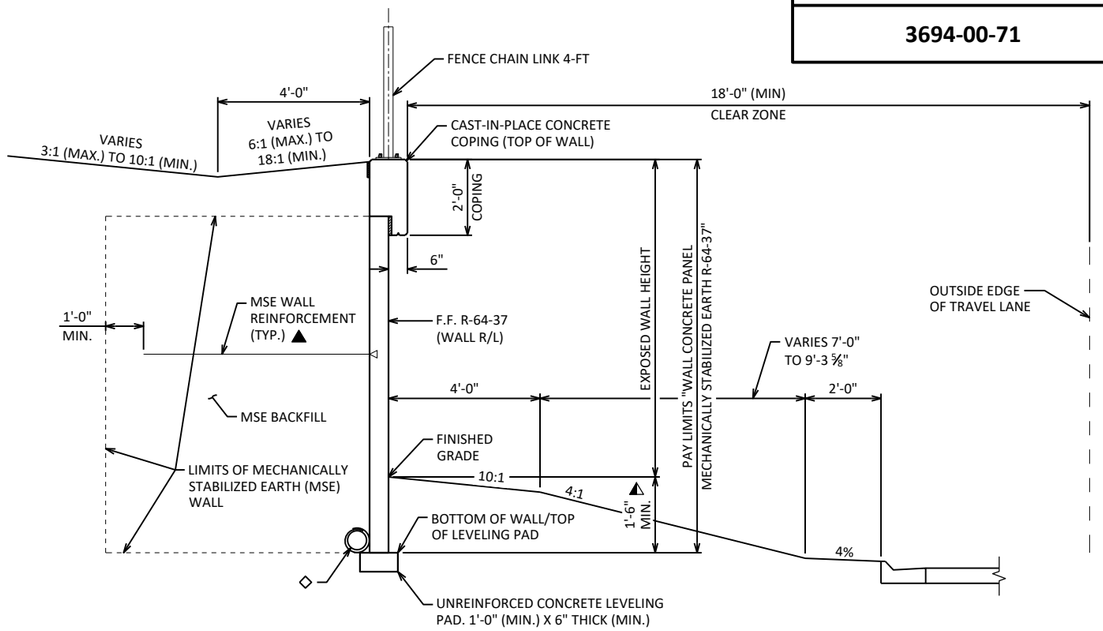
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

AT THE BACK FACE OF THE WALL, ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE OR THE REINFORCED SOIL ZONE SHALL BE BACKFILLED WITH SUITABLE NATIVE MATERIAL. BACKFILLING THE RETAINED SOIL ZONE IS INCLUDED IN THE BID ITEM FOR "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-64-37".

ALL DIMENSIONS, STATIONS, AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL UNLESS OTHERWISE SHOWN.

BAR STEEL REINFORCEMENT FOR CAST-IN-PLACE CONCRETE COPING SHALL BE EPOXY COATED.

BEVEL EXPOSED EDGES OF CONCRETE 3/4-INCH UNLESS NOTED OTHERWISE.



TYPICAL SECTION

LEGEND

▲ MINIMUM LENGTH OF MSE WALL REINFORCING STRIPS MUST BE 70% THE TOTAL WALL HEIGHT (EXPOSED HEIGHT PLUS EMBEDMENT DEPTH) OR 8.0 FEET, WHICHEVER IS GREATER. SOIL REINFORCING MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

◭ MINIMUM EMBEDMENT BASED ON SITE SPECIFIC PARAMETERS (1'-6" MINIMUM FOR ALL WALLS ON LEVEL GROUND). FIELD EMBEDMENTS SHALL MEET OR EXCEED THE MINIMUM EMBEDMENT. FIELD EMBEDMENTS BELOW MINIMUM EMBEDMENT SHALL NOT BE INCLUDED IN THE PAY LIMITS.

◇ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE SOUTH OF WALL. PROVIDE SOLID END CAP ON UNDERDRAIN AT NORTH END OF WALL. DAYLIGHT UNDERDRAIN TO DITCH SOUTH OF WALL. PROVIDE RODENT PROTECTION AT DISCHARGE END OF PIPE. SEE DETAIL ON SHEET 3.

WALL EXTERNAL & OVERALL STABILITY EVALUATION

WALL DETAILS	EVALUATED LOCATIONS	
WALL HEIGHT (FEET)	13.6	10.5
EXPOSED WALL HEIGHT (FEET)	12.1	9.0
MINIMUM LENGTH OF REINFORCEMENT (FEET)	10.2	8.0
WALL STATION	10+50.00	12+44.91
BORING USED	B-2, B-4	B-2, B-3
EXTERNAL STABILITY CAPACITY TO DEMAND RATIO (CDR) AND FACTORED BEARING RESISTANCE		
SLIDING (CDR>1.0)	1.19	1.20
ECCENTRICITY (CDR>1.0)	1.67	1.64
BEARING RESISTANCE (CDR>1.0)	1.67	1.74
FACTORED BEARING RESISTANCE (PSF)	5,907	4,816
GLOBAL STABILITY CDR		
END OF CONSTRUCTION (CDR>1.0)	3.54	4.43
LONG-TERM (CDR>1.0)	1.02	1.05
ESTIMATED SETTLEMENT		
TOTAL SETTLEMENT (INCHES)	< 1	< 1
DIFFERENTIAL SETTLEMENT, Δh1:L (IN/IN)	< 1:500	< 1:500

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-64-37

DRAWN BY DTH | PLANS CK'D EJC

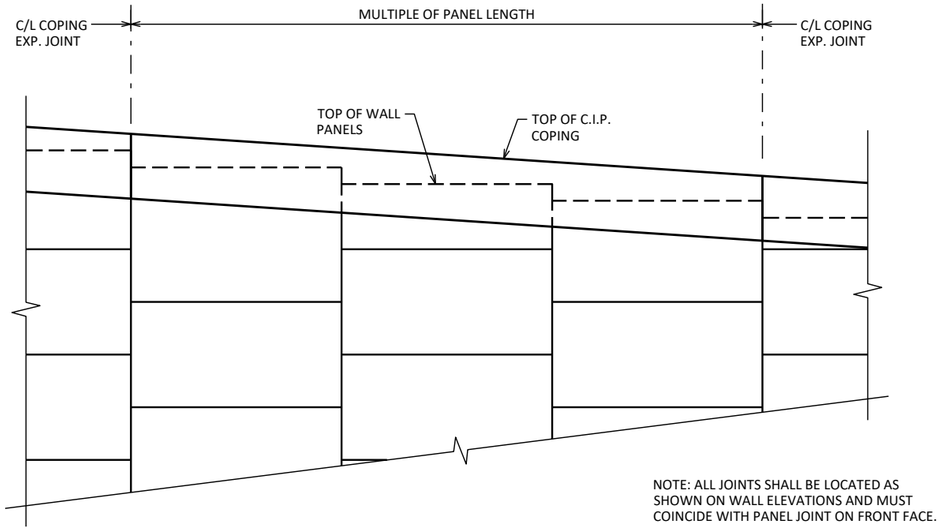
TYPICAL SECTION, QUANTITIES, AND NOTES

SHEET 2
320

SCALE =

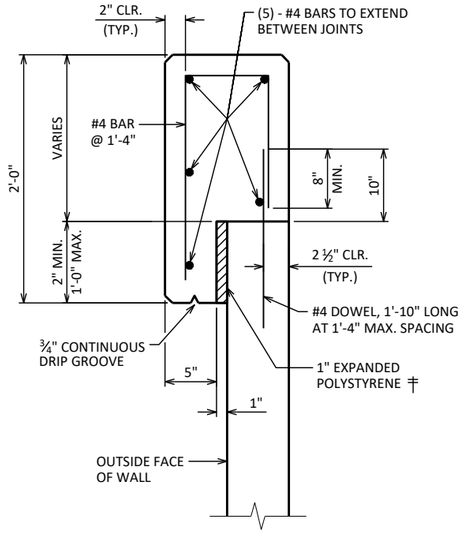
STATE PROJECT NUMBER

3694-00-71

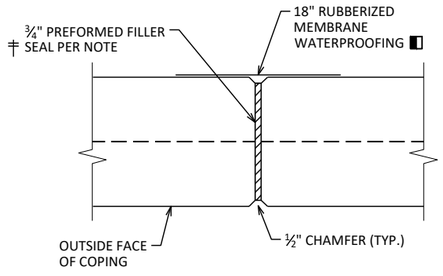


NOTE: ALL JOINTS SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

C.I.P. COPING PARTIAL ELEVATION



CAST-IN-PLACE CONCRETE COPING DETAIL

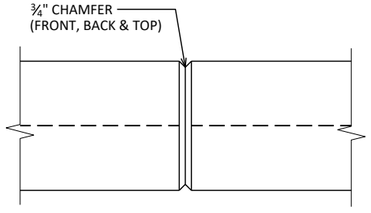


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

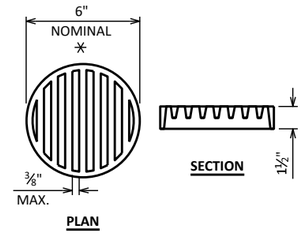
◧ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS. MEMBRANE WATERPROOFING INCLUDED IN BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT. MAX. SPACING OF JOINT = 10'. SET JOINT LOCATION TO ALIGN WITH PANEL JOINT BELOW.



RODENT SHIELD DETAIL

⁎ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAING WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-64-37

DRAWN BY DTH | PLANS CK'D EJC

WALL DETAILS

SHEET 3
321

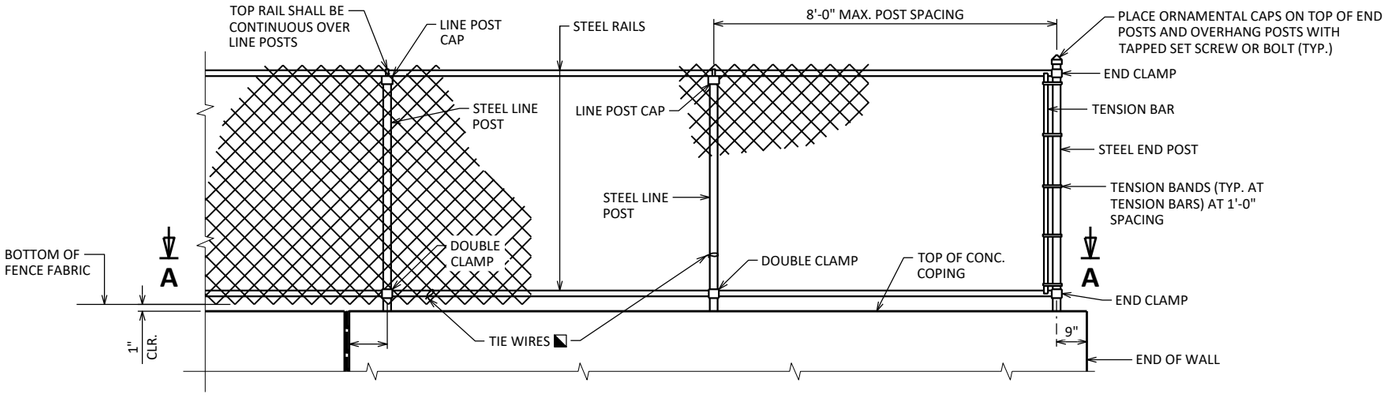
SCALE =

STATE PROJECT NUMBER

3694-00-71

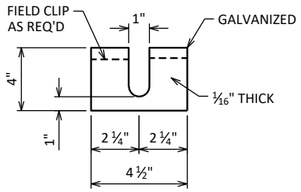
FENCE MEMBER SIZE & WEIGHT

STEEL FENCE MEMBER	OUTSIDE DIA. (INCHES)	WEIGHT (LB/FT)
RAILS	1.66	2.27
END POST	2.88	5.80
OVERHANG POST	2.88	5.80
LINE POST	2.38	3.65
POST SLEEVE	4.00	9.12



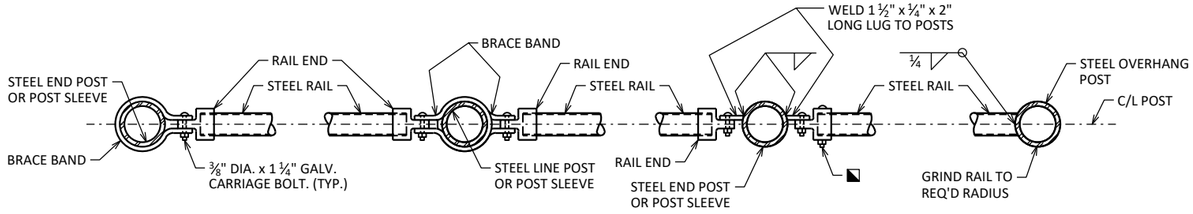
FENCE PART ELEVATION

VIEWING FABRIC SIDE



POST SHIM DETAILS

SHIMS REQUIRED ONLY WHEN END POSTS AND LINE POSTS ARE WELDED TO BASE PLATES. PROVIDE 4 SHIMS PER POST. USE WHERE REQUIRED FOR ALIGNMENT.



END CLAMP ✳ **DOUBLE CLAMP** **WELDED CONNECTION** (AT OVERHANG SECTION)

SECTION A-A

NOTE: PLACE ALL BOLT HEADS ON SIDE OF FENCE ADJACENT TO PEDESTRIANS

GENERAL NOTES

THE BID ITEM SHALL BE "FENCE CHAIN LINK 4-FT". BID ITEM INCLUDES ALL ITEMS SHOWN.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL, EXCEPT THE FENCE FABRIC WHICH MAY BE ALUMINUM - COATED STEEL OR GALVANIZED STEEL.

FABRIC SHALL CONFORM TO ASTM A491 OR A392, CLASS 2, STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40), FITTINGS SHALL CONFORM TO ASTM F626.

POSTS ARE TO BE SET VERTICAL.

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

BASE PLATES, ANCHOR PLATES AND SHIMS SHALL BE ASTM A709, GRADE 36.

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

MINIMUM LENGTHS OF TOP RAIL BETWEEN SPLICES SHALL BE 20'-0". LOCATE SPLICES NEAR ¼ POINT OF POST SPACING.

◪ CAULK AROUND PERIMETER OF BASE PLATE AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

✳ ALTERNATE TO DOUBLE CLAMP: USE LINE RAIL CLAMP (BOULEVARD) OR 180° BRACE BAND, WHICH MAY BE USED WHEN THE POSTS ARE EITHER BOLTED TO THE POST SLEEVES OR DIRECTLY WELDED TO THE BASE PLATE.

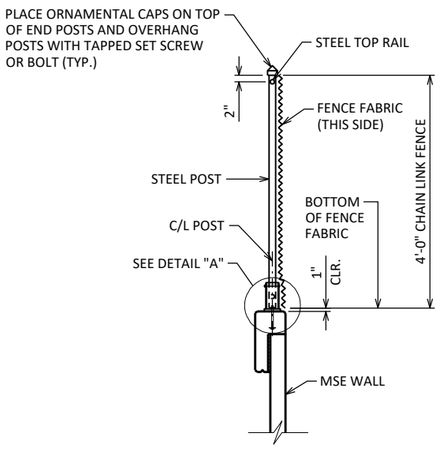
◭ ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.

☆ ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS ½-INCH, EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

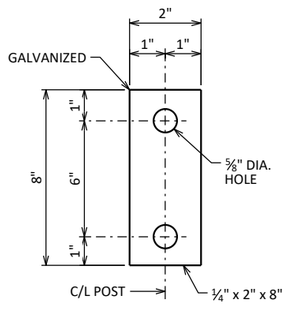
◥ BOLT RAIL TO RAIL END TO SECURE OVERHANG SECTION. ALTERNATE IS TO WELD RAIL DIRECTLY TO END POST.

◐ 1'-0" MIN. DISTANCE BETWEEN CENTERLINE OF COPING JOINTS (BOTH EXPANSION AND CONTRACTION) AND CENTERLINE OF FENCE POSTS.

◧ ATTACH FABRIC TO RAILS AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

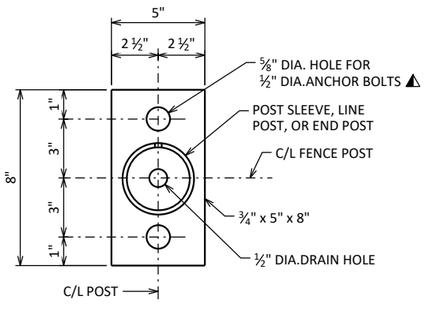


SECTION THRU FENCE

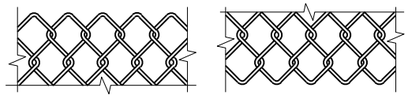


ANCHOR PLATE

☆ NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



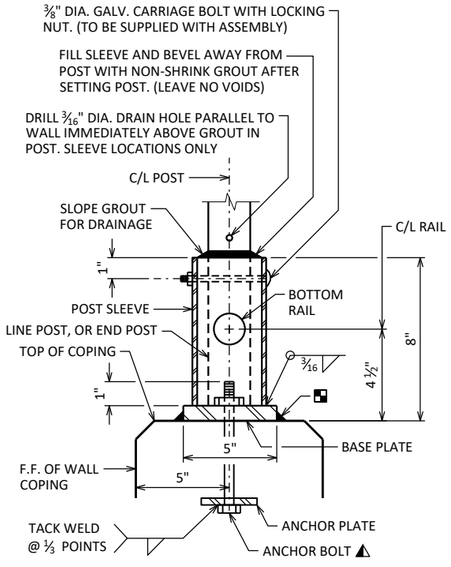
BASE PLATE



TOP DETAIL **BOTTOM DETAIL**

FENCE FABRIC

FENCE FABRIC WOVEN OF 9-GAGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SALVAGES KNUCKLED.



DETAIL 'A'

UNIT SHALL BE GALVANIZED AFTER FABRICATION.
NOTE: IN LIEU OF USING THE POST SLEEVE, THE FENCE POST MAY BE WELDED TO THE BASE PLATE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-64-37

DRAWN BY DTH | PLANS CK'D EJC

FENCE DETAILS

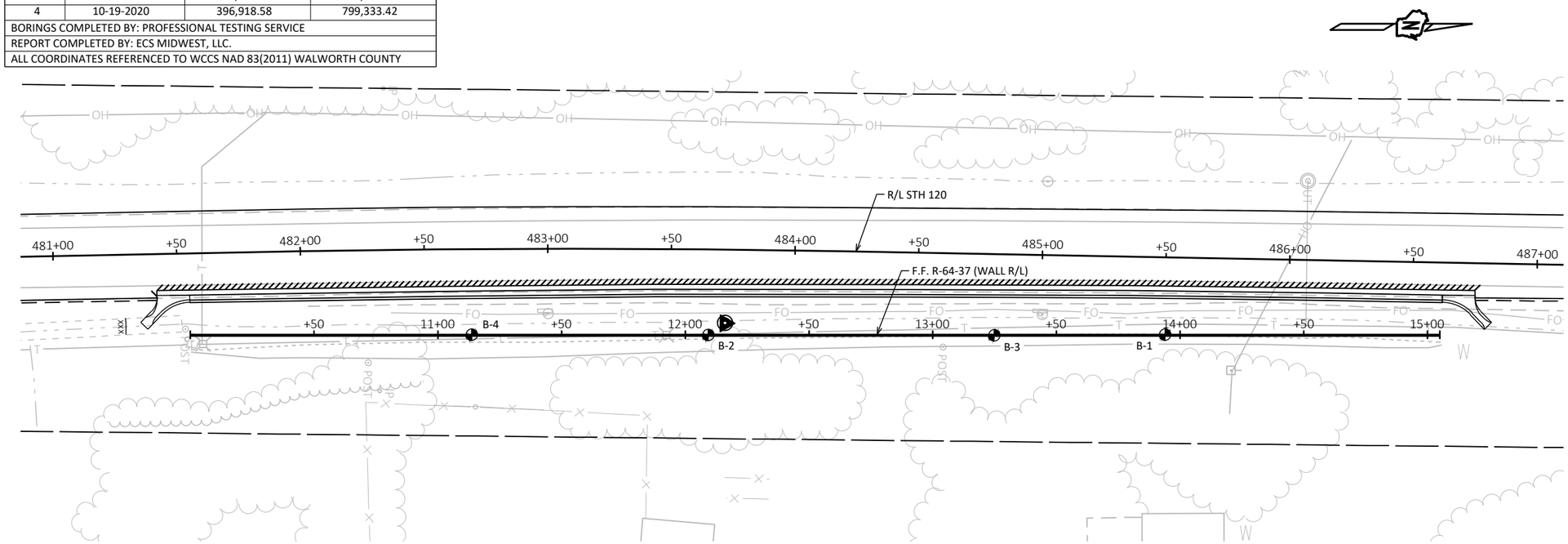
SHEET 4
322

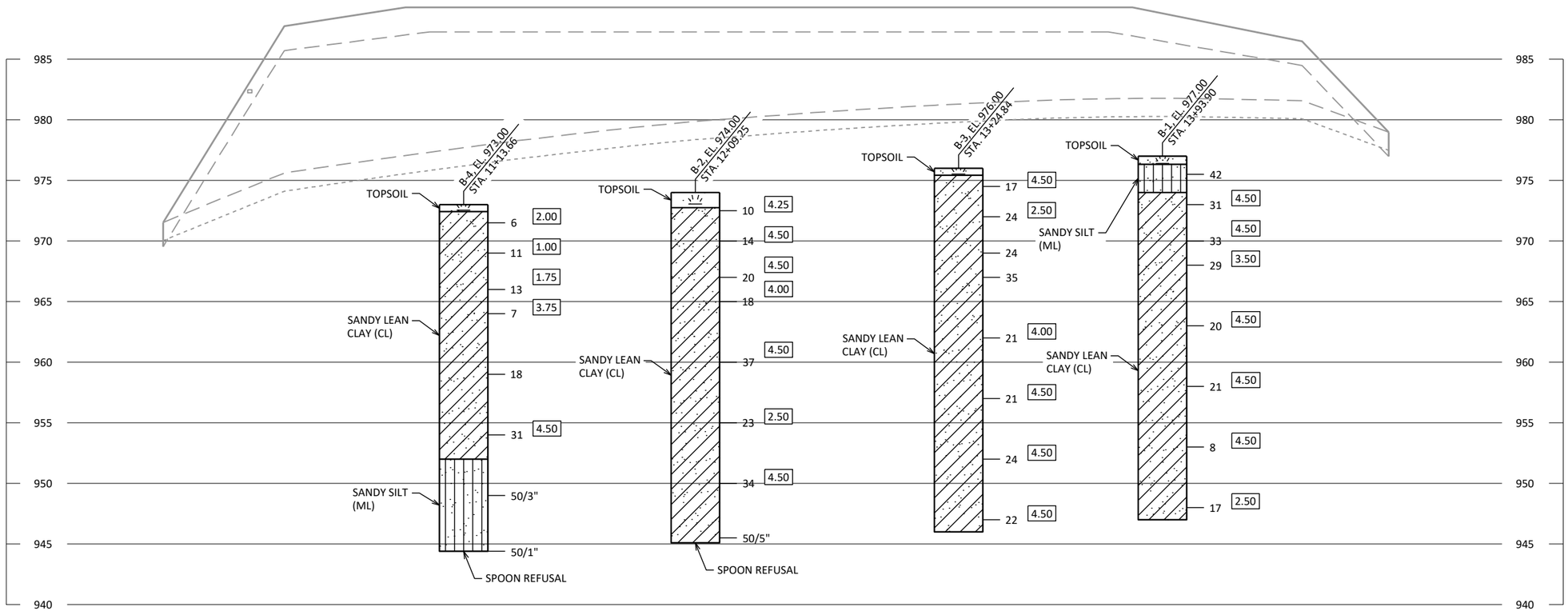
SCALE =

8

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BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	10-19-2020	396,918.58	799,333.42
2	10-19-2020	396,733.94	799,336.01
3	10-19-2020	396,849.53	799,334.58
4	10-19-2020	396,918.58	799,333.42
BORINGS COMPLETED BY: PROFESSIONAL TESTING SERVICE			
REPORT COMPLETED BY: ECS MIDWEST, LLC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(2011) WALWORTH COUNTY			





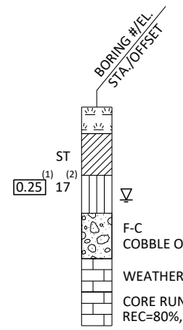
STATE PROJECT NUMBER

3694-00-71

MATERIAL SYMBOLS

- ASPHALT
- TOPSOIL
- PEAT
- CONCRETE
- FILL
- GRAVEL
- SAND
- CLAY
- SILT
- BOULDERS OR COBBLES
- LIMESTONE
- BEDROCK (UNKNOWN)
- SHALE
- SANDSTONE
- IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-64-37

DRAWN BY DTH | PLANS CK'D EJC

SUBSURFACE EXPLORATION

SHEET 5
323

SCALE =

8

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STH 120

CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
0010	42+94 BA, AH		11	6	0	1	0	0	0	0	0	0	0	0
	43+00	6	10	6	1	1	2	1	0	0	2	0	0	1
	43+50	50	11	6	1	1	20	11	2	1	22	3	1	8
	44+00	50	16	6	1	1	25	11	2	1	47	5	3	19
	44+50	50	20	6	2	1	34	11	3	2	81	9	5	38
	45+00	50	25	6	0	1	42	11	1	2	123	10	8	68
	45+50	50	28	6	0	1	49	11	0	2	172	10	10	106
	46+00	50	29	6	2	1	52	11	2	3	224	13	14	145
	46+50	50	25	6	5	1	49	11	7	2	273	21	17	174
	47+00	50	23	6	9	1	44	11	13	2	317	38	20	191
	47+50	50	24	6	18	1	44	11	26	2	361	70	22	191
	48+00	50	31	6	0	2	51	11	17	3	412	91	26	210
	48+50	50	42	6	5	2	67	11	5	3	479	98	30	260
	48+67	17	137	6	0	7	57	4	2	3	536	100	34	310
					COLUMN TOTALS		536	126	80	26	536	100	34	310

STH 36

CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
0010	14+00 A BA, AH		23	5	0	1	0	0	0	0	0	0	0	0
	14+50 A	50	15	5	0	1	36	9	0	2	36	0	3	27
	15+00 A	50	17	5	0	1	30	9	0	2	66	0	5	48
	15+50 A	50	17	5	0	1	32	9	0	2	98	0	8	71
	15+59 A	9	17	5	0	1	6	2	0	0	104	0	8	75
					COLUMN TOTALS		104	29	0	6	104	0	8	75

NOTES:

1. CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2. THIS DOES NOT SHOW UP IN CROSS SECTIONS
3. DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5. WILL BE BACKFILLED WITH BREAKER RUN
8. EBS TO BE BACKFILLED WITH BREAKER RUN: [CUT - SALVAGED PAVT - EXPANDED FILL]

STH 120

CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
0010	49+50 BA, AH		16	1	0	0	0	0	0	0	0	0	0	0
	49+66	16	17	2	0	0	10	1	0	0	10	0	0	9
	50+00	34	18	2	1	0	22	3	1	0	32	1	0	27
	50+50	50	16	2	2	0	32	4	2	0	64	4	0	52
	51+00	50	16	2	2	0	30	4	3	0	94	8	0	75
	51+32	32	15	2	1	0	18	2	2	0	112	10	0	88
	51+50	18	8	1	2	0	8	1	1	0	120	11	0	94
	52+00	50	8	1	2	0	14	2	4	0	134	16	0	101
	52+50	50	7	1	3	0	14	2	4	0	148	21	0	108
	52+88	38	7	1	3	0	10	1	4	0	158	26	0	112
	53+00	12	7	1	3	0	3	0	1	0	161	28	0	114
	53+10	22	7	1	4	0	6	1	3	0	164	30	0	113
					COLUMN TOTALS		167	21	25	0	164	30	0	113

STH 120

CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
0010	304+62 BA, AH		0	0	0	0	0	0	0	0	0	0	0	0
	305+00	38	0	0	0	0	0	0	0	0	0	0	0	0
	305+25	25	0	0	2	0	0	0	1	0	0	1	0	-1
	305+35	10	0	0	0	0	0	0	0	0	0	1	0	-1
	305+50	15	0	0	0	0	0	0	0	0	0	1	0	-1
	305+60	10	1	0	0	0	0	0	0	0	0	1	0	-1
	305+85	25	1	0	0	0	1	0	0	0	1	1	0	0
	306+00	15	1	0	0	0	0	0	0	0	1	1	0	0
	306+50	50	0	0	0	0	1	0	0	0	2	1	0	1
	307+00	50	0	0	0	0	0	0	0	0	2	1	0	1
	307+50	50	0	0	0	0	0	0	0	0	2	1	0	1
	308+00	50	1	0	0	0	1	0	0	0	3	1	0	2
	308+50	50	0	0	0	0	1	0	0	0	4	1	0	3
	309+00	50	0	0	0	0	0	0	0	0	4	1	0	3
	309+50	50	0	0	0	0	0	0	0	0	4	1	0	3
	310+00	50	0	0	0	0	0	0	0	0	4	1	0	3
	310+42	42	0	0	1	0	0	0	1	0	4	3	0	2
	310+50	8	0	0	1	0	0	0	0	0	4	3	0	2
	310+67	17	0	0	1	0	0	0	1	0	4	4	0	0
	310+92	25	0	0	2	0	0	0	1	0	4	5	0	-1
	311+01	10	0	0	2	0	0	0	1	0	4	6	0	-2
	311+50	49	0	0	0	0	0	0	2	0	4	9	0	-5
	311+71	21	0	0	0	0	0	0	0	0	4	9	0	-5
					COLUMN TOTALS		4	0	7	0	4	9	0	-5

NOTES:

1. CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2. THIS DOES NOT SHOW UP IN CROSS SECTIONS
3. DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5. WILL BE BACKFILLED WITH BREAKER RUN
8. EBS TO BE BACKFILLED WITH BREAKER RUN: [CUT - SALVAGED PAVT - EXPANDED FILL]

STH 120

CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
0010	360+75 BA, AH		0	0	0	0	0	0	0	0	0	0	0	0
	361+00	25	0	0	0	0	0	0	0	0	0	0	0	0
	361+16	16	0	0	0	0	0	0	0	0	0	0	0	0
	361+37	20	0	0	0	0	0	0	0	0	0	0	0	0
	361+50	13	1	0	0	0	0	0	0	0	0	0	0	0
	361+62	12	1	0	0	0	0	0	0	0	0	0	0	0
	361+77	16	1	0	0	0	0	0	0	0	0	0	0	0
	361+87	9	1	0	0	0	0	0	0	0	0	0	0	0
	362+00	13	1	0	0	0	0	0	0	0	0	0	0	0
	362+02	2	1	0	0	0	0	0	0	0	0	0	0	0
	362+27	25	0	0	0	0	0	0	0	0	0	0	0	0
	362+50	23	0	0	0	0	0	0	0	0	0	0	0	0
	363+00	50	1	0	2	0	1	0	2	0	1	3	0	-2
	363+50	50	0	0	1	0	1	0	3	0	2	6	0	-4
	364+00	50	0	0	0	0	0	0	1	0	2	8	0	-6
	364+46	46	0	0	3	0	0	0	3	0	2	11	0	-9
	364+71	25	0	0	3	0	0	0	3	0	2	15	0	-13
	364+96	25	0	0	3	0	0	0	3	0	2	19	0	-17
	365+00	4	0	0	3	0	0	0	0	0	2	19	0	-17
	365+50	50	0	0	1	0	0	0	4	0	2	24	0	-22
	365+55	5	0	0	2	0	0	0	0	0	2	24	0	-22
	365+57	2	0	0	2	0	0	0	0	0	2	24	0	-22
	365+80	23	0	0	2	0	0	0	2	0	2	26	0	-24
	366+00	20	0	0	2	0	0	0	2	0	2	29	0	-27
	366+05	5	0	0	2	0	0	0	0	0	2	29	0	-27
	366+50	45	0	0	0	0	0	0	2	0	2	31	0	-29
	366+67	17	0	0	0	0	0	0	0	0	2	31	0	-29
					COLUMN TOTALS		2	0	25	0	2	31	0	-29

NOTES:

1. CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2. THIS DOES NOT SHOW UP IN CROSS SECTIONS
3. DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5. WILL BE BACKFILLED WITH BREAKER RUN
8. EBS TO BE BACKFILLED WITH BREAKER RUN: [CUT - SALVAGED PAVT - EXPANDED FILL]

STH 120

CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
0010	382+02 BA, AH		0	0	0	0	0	0	0	0	0	0	0	0
	382+50	48	0	0	0	0	0	0	0	0	0	0	0	0
	383+00	50	0	0	0	0	1	0	0	0	1	0	0	1
	383+05	5	1	0	0	0	0	0	0	0	1	0	0	1
	383+50	45	0	0	1	0	1	0	1	0	2	1	0	1
	383+82	32	0	0	2	0	0	0	2	0	2	4	0	-2
	384+00	18	1	0	0	0	0	0	1	0	2	5	0	-3
	384+07	7	1	0	0	0	0	0	0	0	2	5	0	-3
	384+32	25	2	0	0	0	2	0	0	0	4	5	0	-1
	384+50	18	1	0	0	0	1	0	0	0	5	5	0	0
	384+65	15	0	0	0	0	0	0	0	0	5	5	0	0
	385+00	35	0	0	7	0	0	0	5	0	5	11	0	-6
	385+50	50	0	0	2	0	0	0	8	0	5	21	0	-16
	386+00	50	0	0	0	0	1	0	2	0	6	24	0	-18
	386+50	50	0	0	0	0	1	0	0	0	7	24	0	-17
	387+00	50	0	0	1	0	0	0	1	0	7	25	0	-18
	387+50	50	1	0	0	0	1	0	1	0	8	26	0	-18
	388+00	50	1	0	0	0	2	0	0	0	10	26	0	-16
	389+50	150	0	0	3	0	2	0	8	0	12	36	0	-24
	390+00	50	2	0	1	0	2	0	3	0	14	40	0	-26
	390+39	39	0	0	2	0	2	0	2	0	16	43	0	-27
	390+50	11	0	0	1	0	0	0	0	0	16	43	0	-27
	390+63	13	0	0	1	0	0	0	0	0	16	43	0	-27
	390+88	25	0	0	3	0	0	0	2	0	16	45	0	-29
	391+00	12	1	0	2	0	0	0	1	0	16	46	0	-30
	391+50	50	1	0	0	0	1	0	2	0	17	49	0	-32
	392+00	50	0	0	0	0	0	0	0	0	17	49	0	-32
	392+50	50	0	0	0	0	0	0	0	0	17	49	0	-32
	392+68	18	0	0	0	0	0	0	0	0	17	49	0	-32
	392+76	8	0	0	0	0	0	0	0	0	17	49	0	-32
	393+00	24	0	0	0	0	0	0	0	0	17	49	0	-32
	393+01	1	0	0	0	0	0	0	0	0	17	49	0	-32
	393+26	25	0	0	2	0	0	0	1	0	17	50	0	-33
	393+50	24	0	0	3	0	0	0	2	0	17	53	0	-36
	394+00	50	0	0	0	0	0	0	3	0	17	56	0	-39
	394+29	29	0	0	0	0	0	0	0	0	17	56	0	-39
					COLUMN TOTALS		17	0	45	0	17	56	0	-39

NOTES:

1. CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2. THIS DOES NOT SHOW UP IN CROSS SECTIONS
3. DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5. WILL BE BACKFILLED WITH BREAKER RUN
8. EBS TO BE BACKFILLED WITH BREAKER RUN: [CUT - SALVAGED PAVT - EXPANDED FILL]

STH 120

CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
0010	399+66 BA, AH		0	0	0	0	0	0	0	0	0	0	0	0
	400+00	34	0	0	0	0	0	0	0	0	0	0	0	0
	400+50	50	0	0	2	0	0	0	2	0	0	3	0	-3
	400+88	38	0	0	7	0	0	0	6	0	0	10	0	-10
	401+00	12	0	0	6	0	0	0	3	0	0	14	0	-14
	401+13	13	0	0	5	0	0	0	3	0	0	18	0	-18
	401+38	25	0	0	3	0	0	0	3	0	0	21	0	-21
	401+50	12	0	0	0	0	0	0	1	0	0	23	0	-23
	401+95	45	0	0	0	0	0	0	1	0	0	24	0	-24
	402+00	5	0	0	0	0	0	0	0	0	0	24	0	-24
	402+50	50	0	0	2	0	0	0	2	0	0	26	0	-26
	402+81	31	0	0	0	0	0	0	1	0	0	28	0	-28
	403+00	19	0	0	0	0	0	0	0	0	0	28	0	-28
	403+06	6	1	0	0	0	0	0	0	0	0	28	0	-28
	403+31	25	1	0	0	0	1	0	0	0	1	28	0	-27
	403+50	19	0	0	0	0	1	0	0	0	2	28	0	-26
	404+00	50	0	0	0	0	1	0	0	0	3	28	0	-25
	404+50	50	0	0	0	0	1	0	0	0	4	28	0	-24
	405+00	50	0	0	0	0	1	0	0	0	5	28	0	-23
	405+50	50	0	0	0	0	1	0	0	0	6	28	0	-22
	406+00	50	0	0	0	0	1	0	0	0	7	28	0	-21
	406+50	50	0	0	0	0	1	0	0	0	8	28	0	-20
	407+00	50	1	0	0	0	1	0	0	0	9	28	0	-19
	407+50	50	0	0	0	0	1	0	0	0	10	28	0	-18
	408+00	50	1	0	0	0	1	0	0	0	11	28	0	-17
	408+50	50	1	0	0	0	1	0	0	0	12	28	0	-16
	409+00	50	1	0	0	0	1	0	0	0	13	28	0	-15
	409+12	12	1	0	0	0	0	0	0	0	13	28	0	-15
	409+37	25	1	0	7	0	1	0	3	0	14	31	0	-17
	409+62	25	0	0	1	0	0	0	3	0	14	35	0	-21
	410+00	38	0	0	1	0	0	0	1	0	14	36	0	-22
	410+24	24	0	0	0	0	0	0	0	0	14	36	0	-22
	410+50	26	0	0	0	0	0	0	0	0	14	36	0	-22
	410+56	6	0	0	0	0	0	0	0	0	14	36	0	-22
	410+81	25	0	0	0	0	0	0	0	0	14	36	0	-22
	411+00	138	0	0	1	0	0	0	2	0	14	38	0	-24
	411+06	6	0	0	1	0	0	0	0	0	14	38	0	-24
	411+50	44	0	0	0	0	0	0	1	0	14	39	0	-25
	411+74	24	0	0	0	0	0	0	0	0	14	39	0	-25
	411+84	9	0	0	0	0	0	0	0	0	14	39	0	-25
					COLUMN TOTALS		14	0	32	0	14	39	0	-25

NOTES:

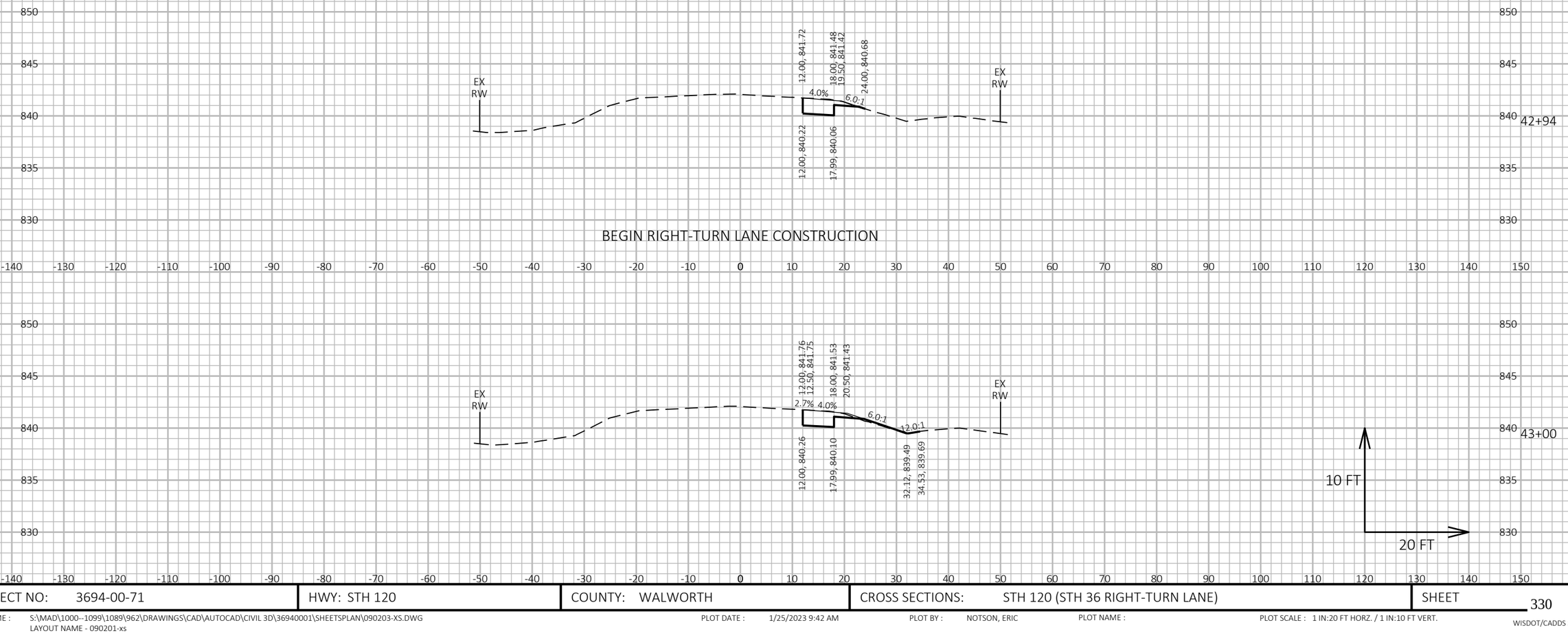
1. CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2. THIS DOES NOT SHOW UP IN CROSS SECTIONS
3. DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5. WILL BE BACKFILLED WITH BREAKER RUN
8. EBS TO BE BACKFILLED WITH BREAKER RUN: [CUT - SALVAGED PAVT - EXPANDED FILL]

STH 120

CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
0010	481+55 BA, AH		11	1	6	0	0	0	0	0	0	0	0	0
	481+75	20	11	1	17	0	8	1	8	0	8	10	0	-3
	482+00	25	11	1	28	0	10	1	21	0	18	36	0	-20
	482+25	25	11	1	28	0	10	1	26	0	28	69	0	-44
	482+50	25	11	1	28	0	10	1	26	0	38	101	0	-67
	482+75	25	11	1	28	0	10	1	26	0	48	134	0	-91
	483+00	25	11	1	29	0	10	1	26	0	58	166	0	-114
	483+25	25	11	1	31	0	10	1	28	0	68	201	0	-140
	483+50	25	10	1	32	0	9	1	29	0	77	238	0	-169
	483+75	25	10	1	34	0	9	1	30	0	86	275	0	-198
	484+00	25	11	1	34	0	9	1	31	0	95	314	0	-229
	484+25	25	11	1	34	0	10	1	31	0	105	353	0	-259
	484+50	25	11	1	30	0	10	1	30	0	115	390	0	-287
	484+75	25	11	1	29	0	10	1	28	0	125	425	0	-313
	485+00	25	11	1	28	0	10	1	27	0	135	459	0	-338
	485+25	25	11	1	28	0	10	1	26	0	145	491	0	-361
	485+50	25	11	1	27	0	10	1	25	0	155	523	0	-384
	485+75	25	11	1	25	0	10	1	24	0	165	553	0	-405
	486+00	25	11	1	24	0	10	1	23	0	175	581	0	-424
	486+25	25	11	1	24	0	10	1	22	0	185	609	0	-443
	486+50	25	11	1	11	0	10	1	16	0	195	629	0	-454
	486+61	11	11	1	4	0	4	0	3	0	199	633	0	-454
						COLUMN TOTALS	199	20	506	0	199	633	0	-454

NOTES:

1. CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2. THIS DOES NOT SHOW UP IN CROSS SECTIONS
3. DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5. WILL BE BACKFILLED WITH BREAKER RUN
8. EBS TO BE BACKFILLED WITH BREAKER RUN: [CUT - SALVAGED PAVT - EXPANDED FILL]



9

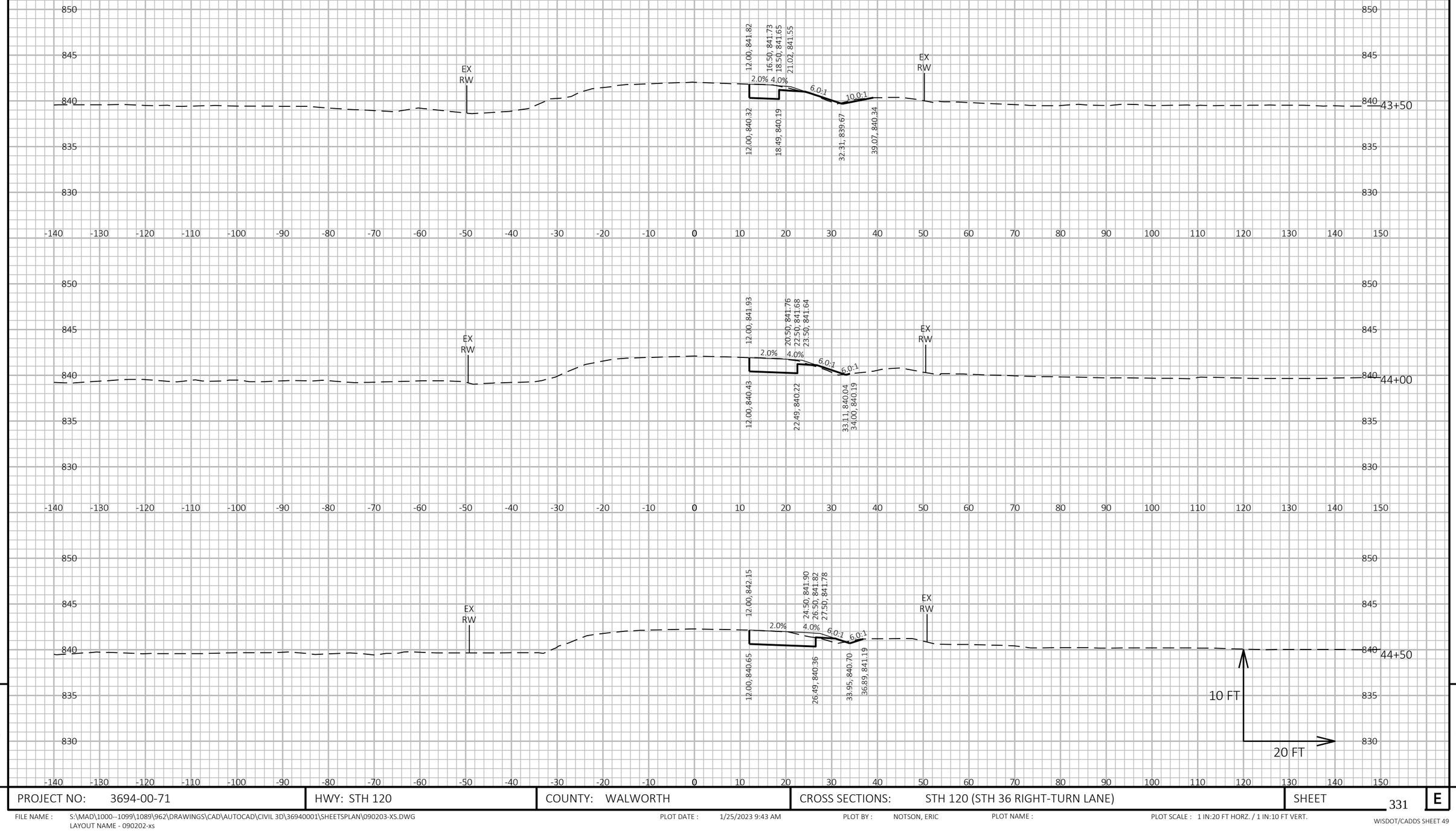
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (STH 36 RIGHT-TURN LANE)	SHEET 330	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 1/25/2023 9:42 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

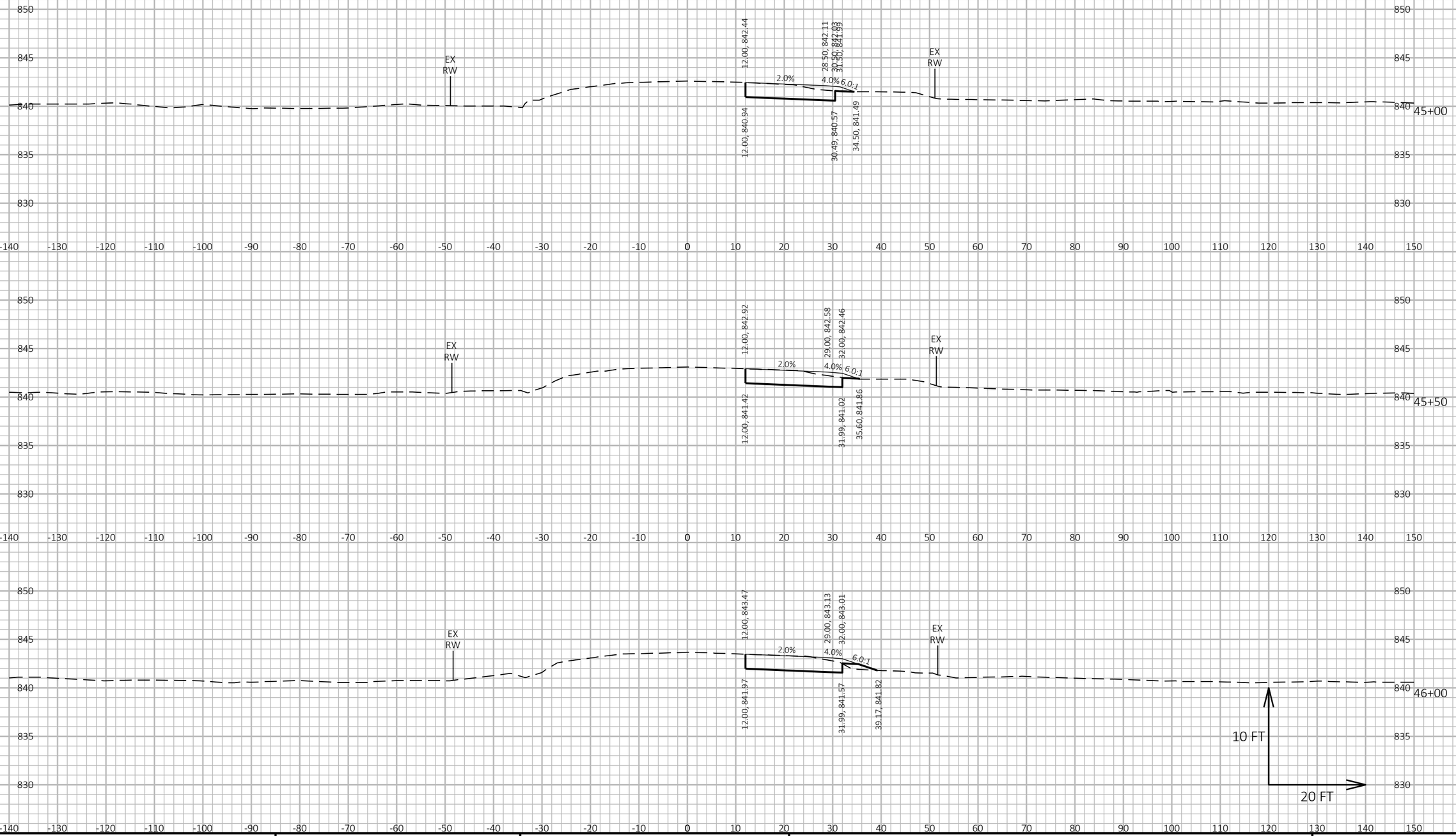
9

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (STH 36 RIGHT-TURN LANE)	SHEET 331	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 1/25/2023 9:43 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



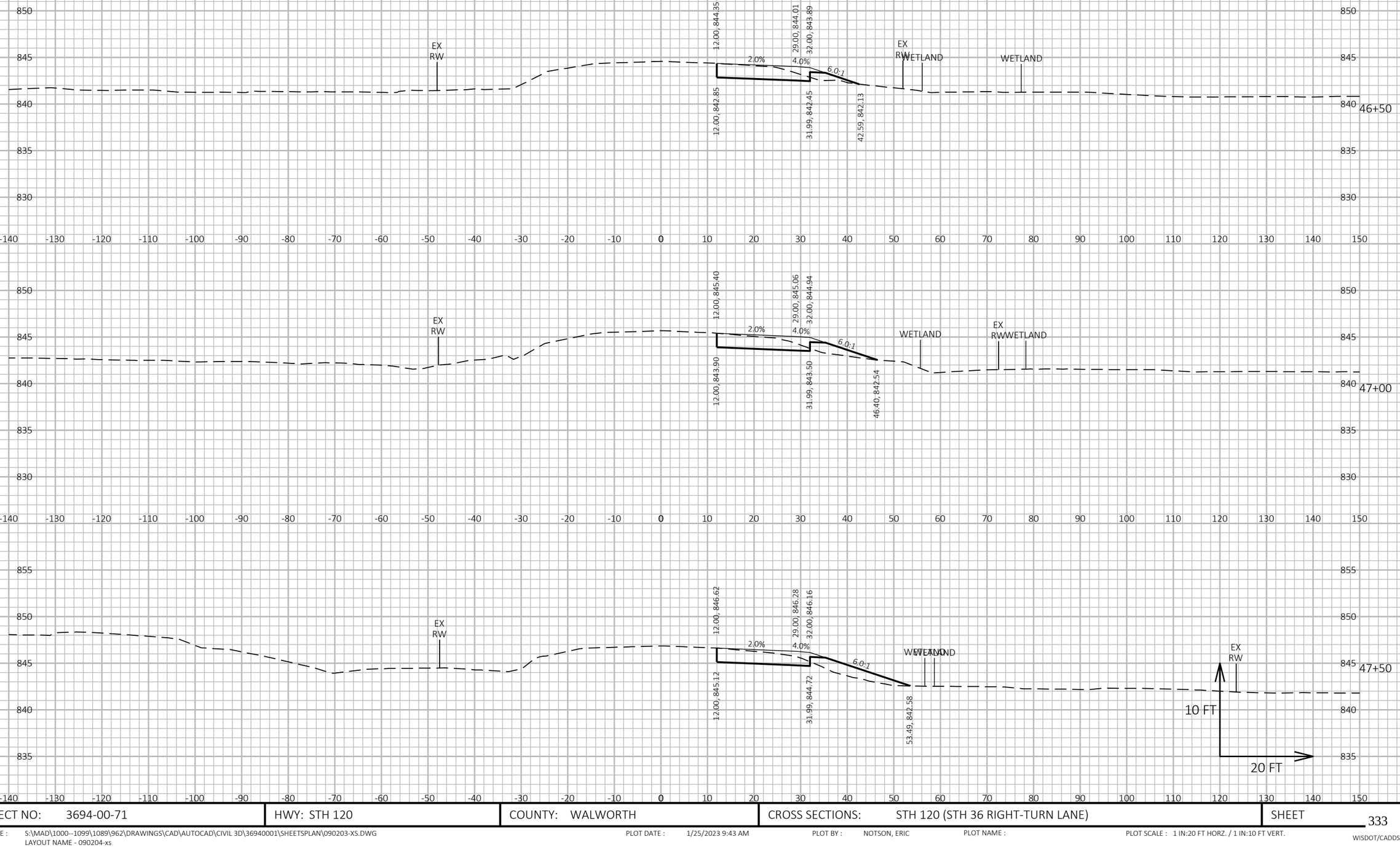
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (STH 36 RIGHT-TURN LANE)	SHEET 332	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 1/25/2023 9:43 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

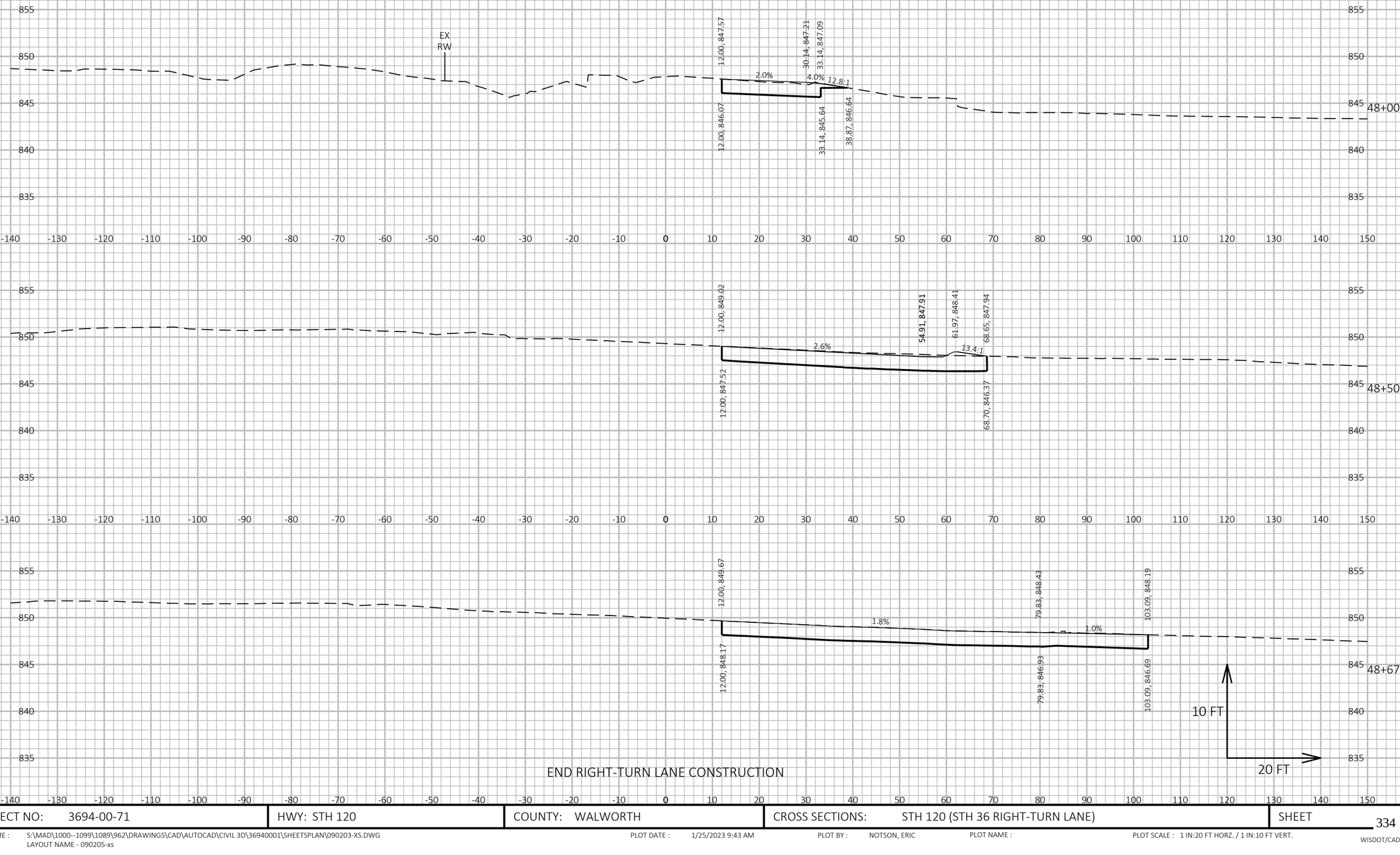


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (STH 36 RIGHT-TURN LANE)	SHEET 333	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 1/25/2023 9:43 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

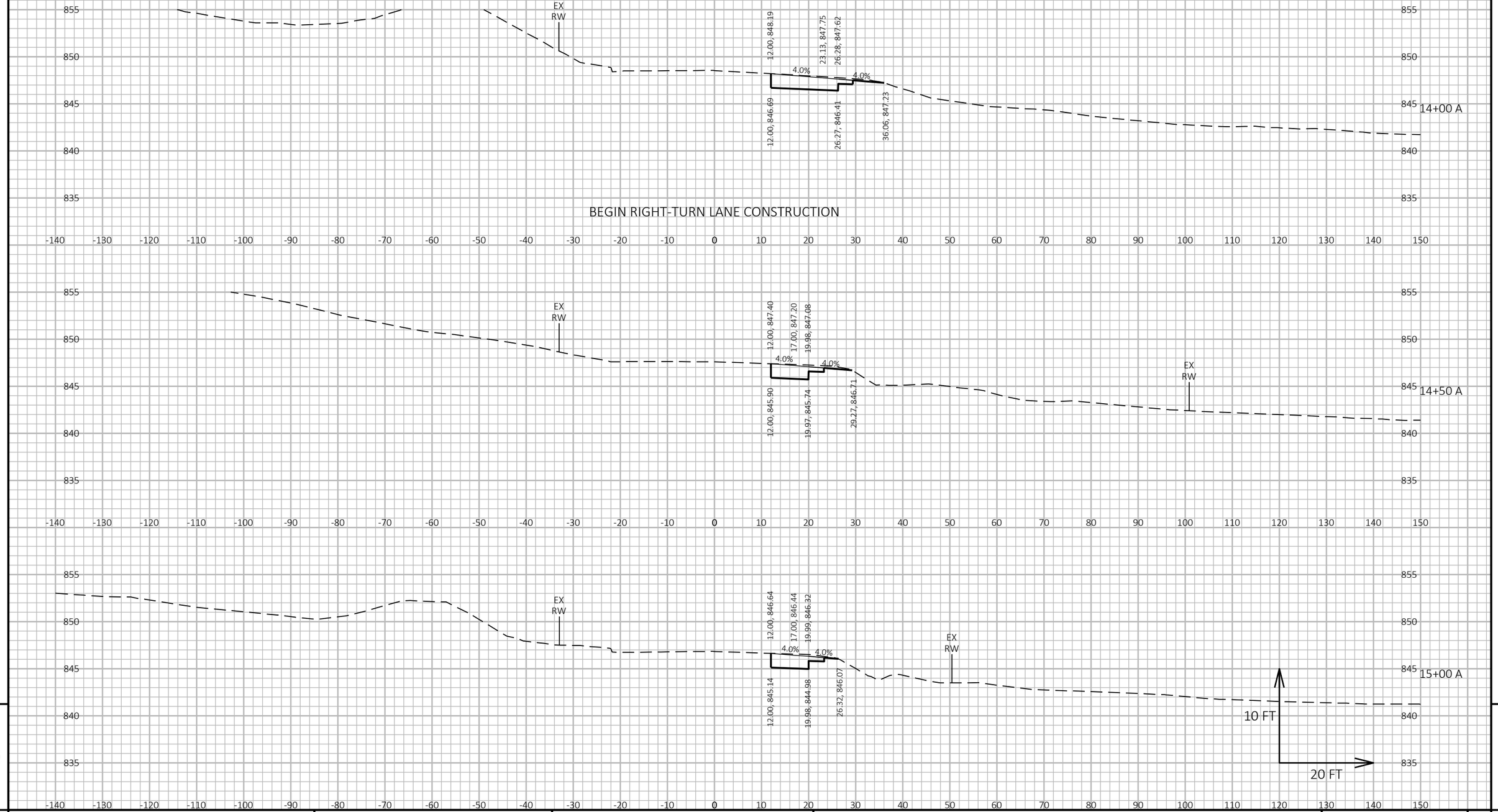


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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (STH 36 RIGHT-TURN LANE)	SHEET 334	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090205-xs
PLOT DATE : 1/25/2023 9:43 AM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

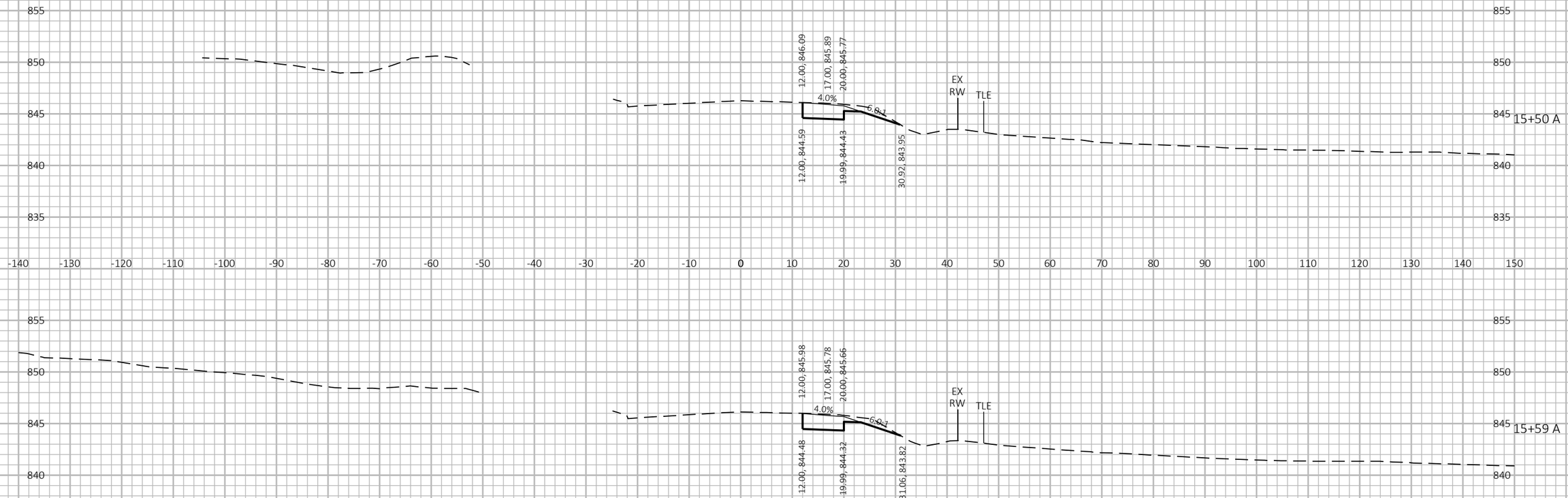
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 36 RIGHT-TURN LANE	SHEET 335	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090206-xs

PLOT DATE : 1/25/2023 9:43 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

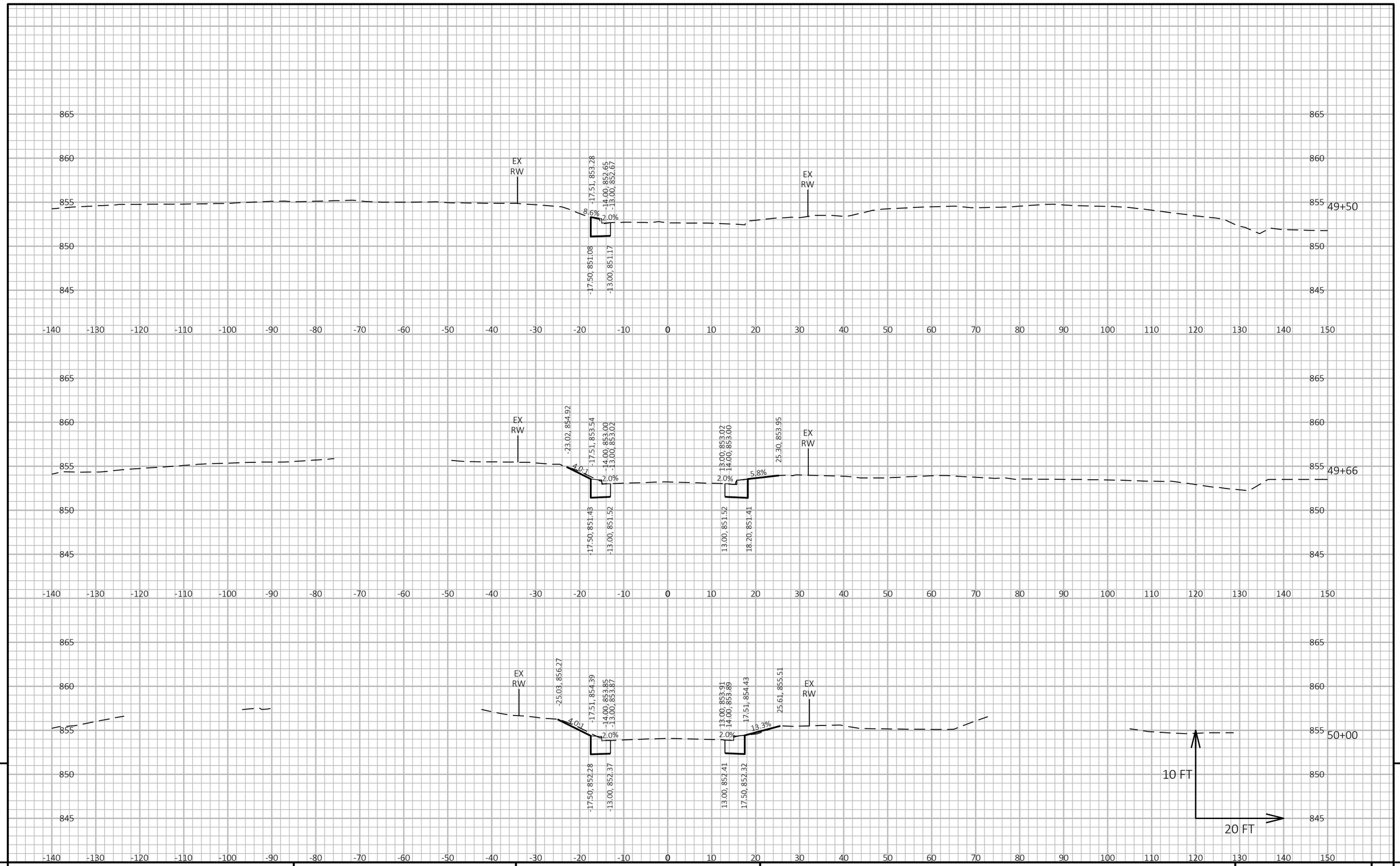


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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 36 RIGHT-TURN LANE	SHEET 336	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090207-xs
PLOT DATE : 1/25/2023 9:43 AM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

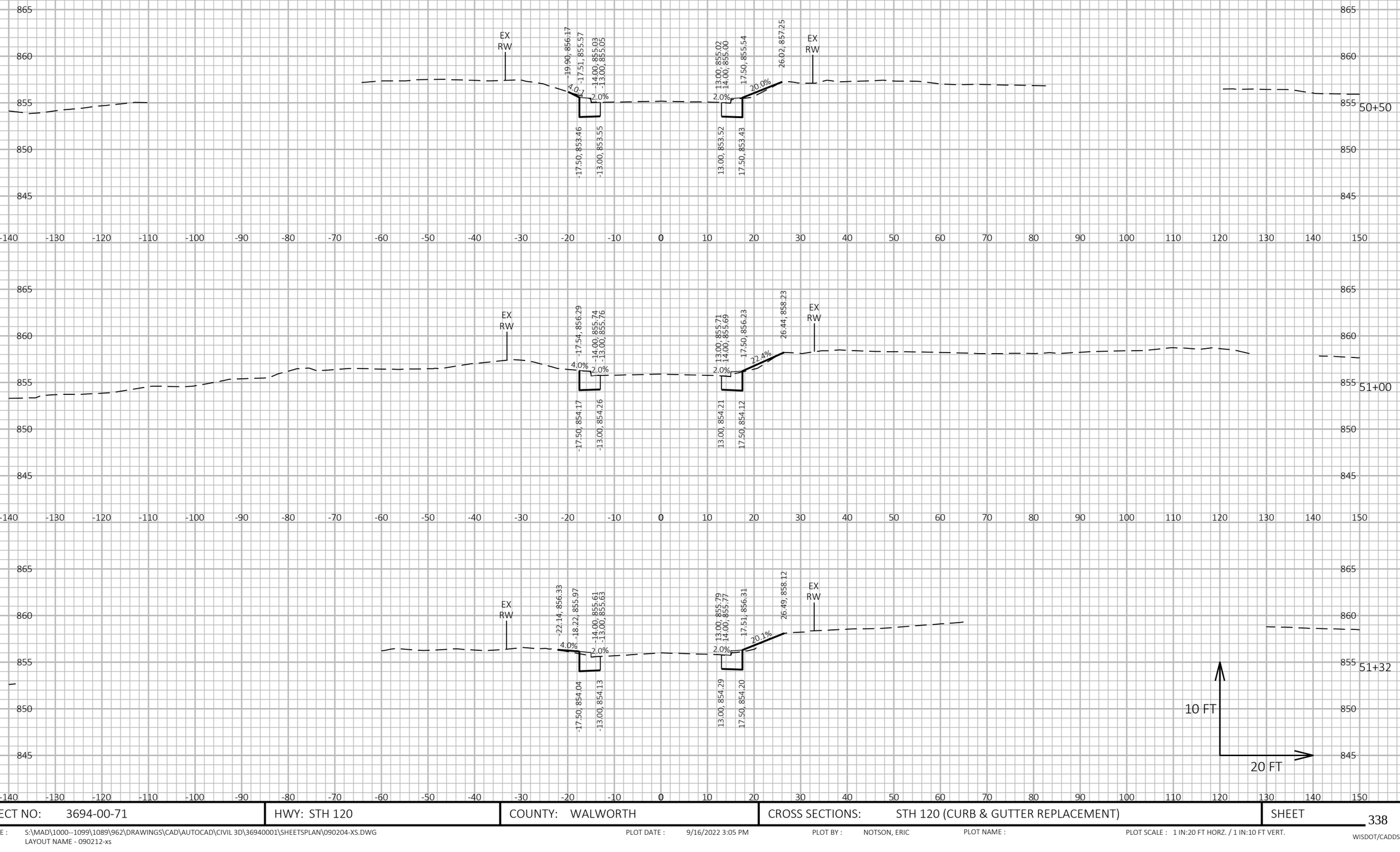


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (CURB & GUTTER REPLACEMENT)	SHEET 337	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090211-xs

PLOT DATE : 9/16/2022 3:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



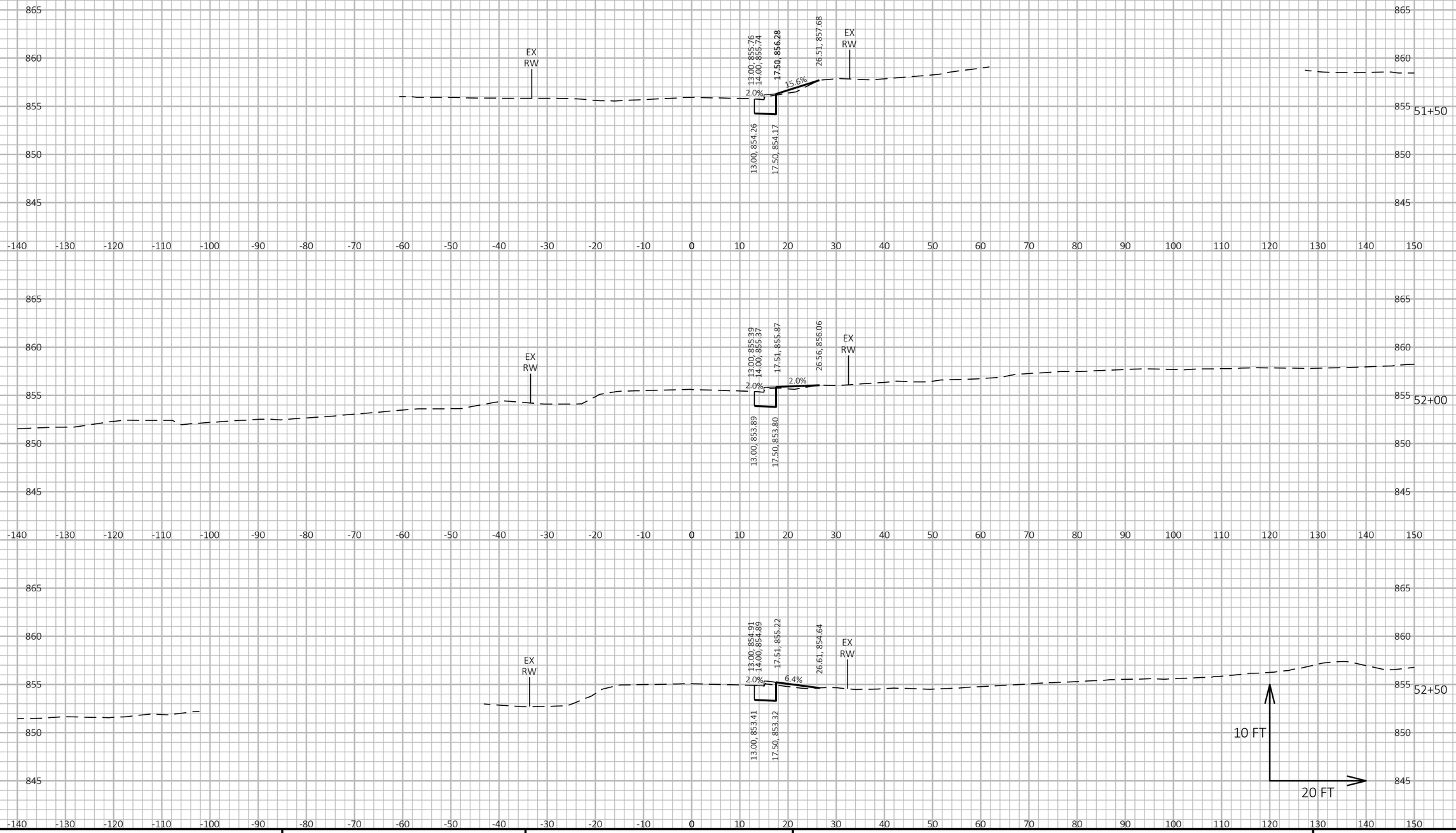
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (CURB & GUTTER REPLACEMENT)	SHEET 338	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090212-xs

PLOT DATE : 9/16/2022 3:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

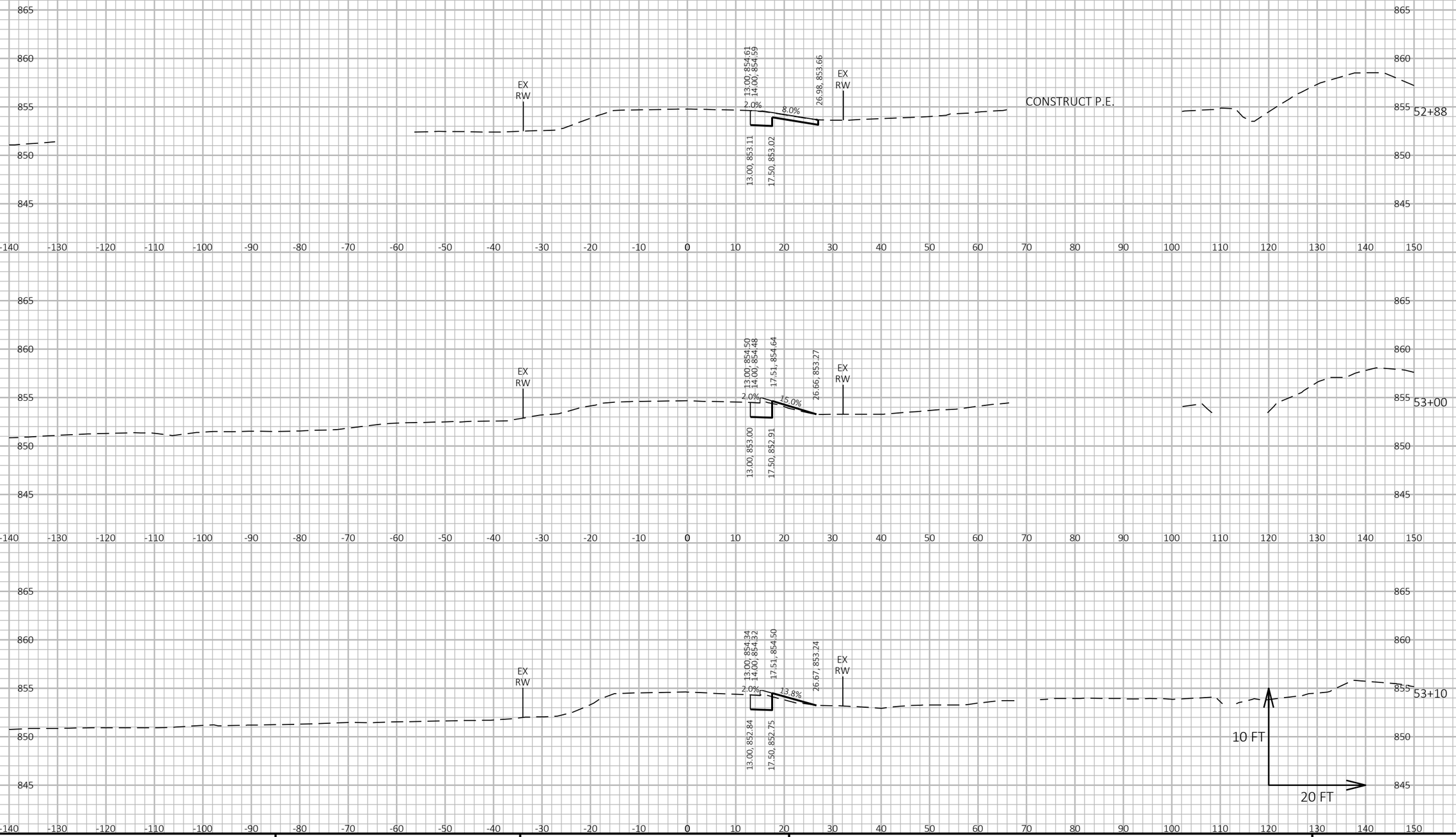


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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (CURB & GUTTER REPLACEMENT)	SHEET 339	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090213-xs
PLOT DATE : 9/16/2022 3:05 PM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

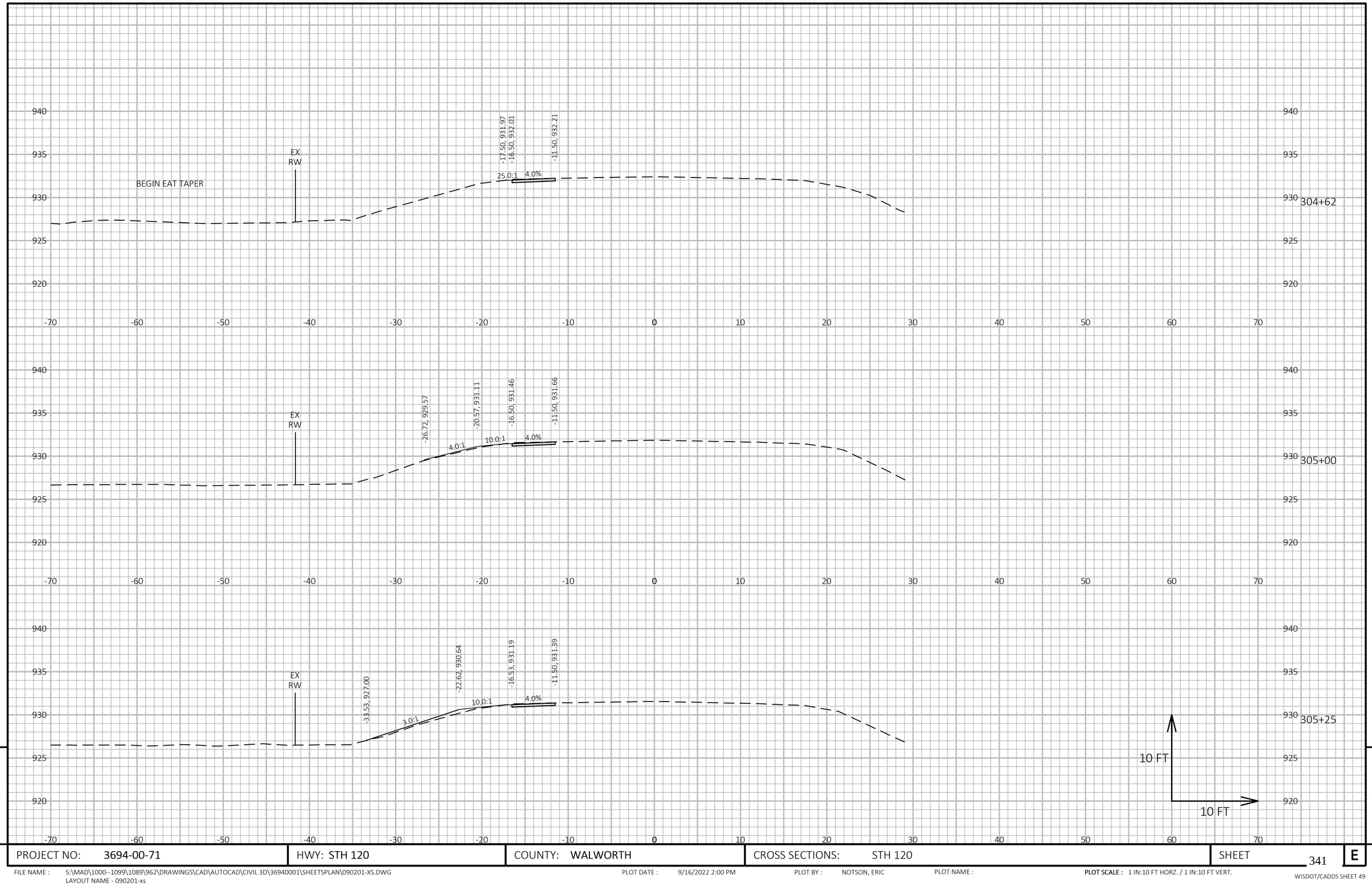
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (CURB & GUTTER REPLACEMENT)	SHEET 340	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090214-xs

PLOT DATE : 9/16/2022 3:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

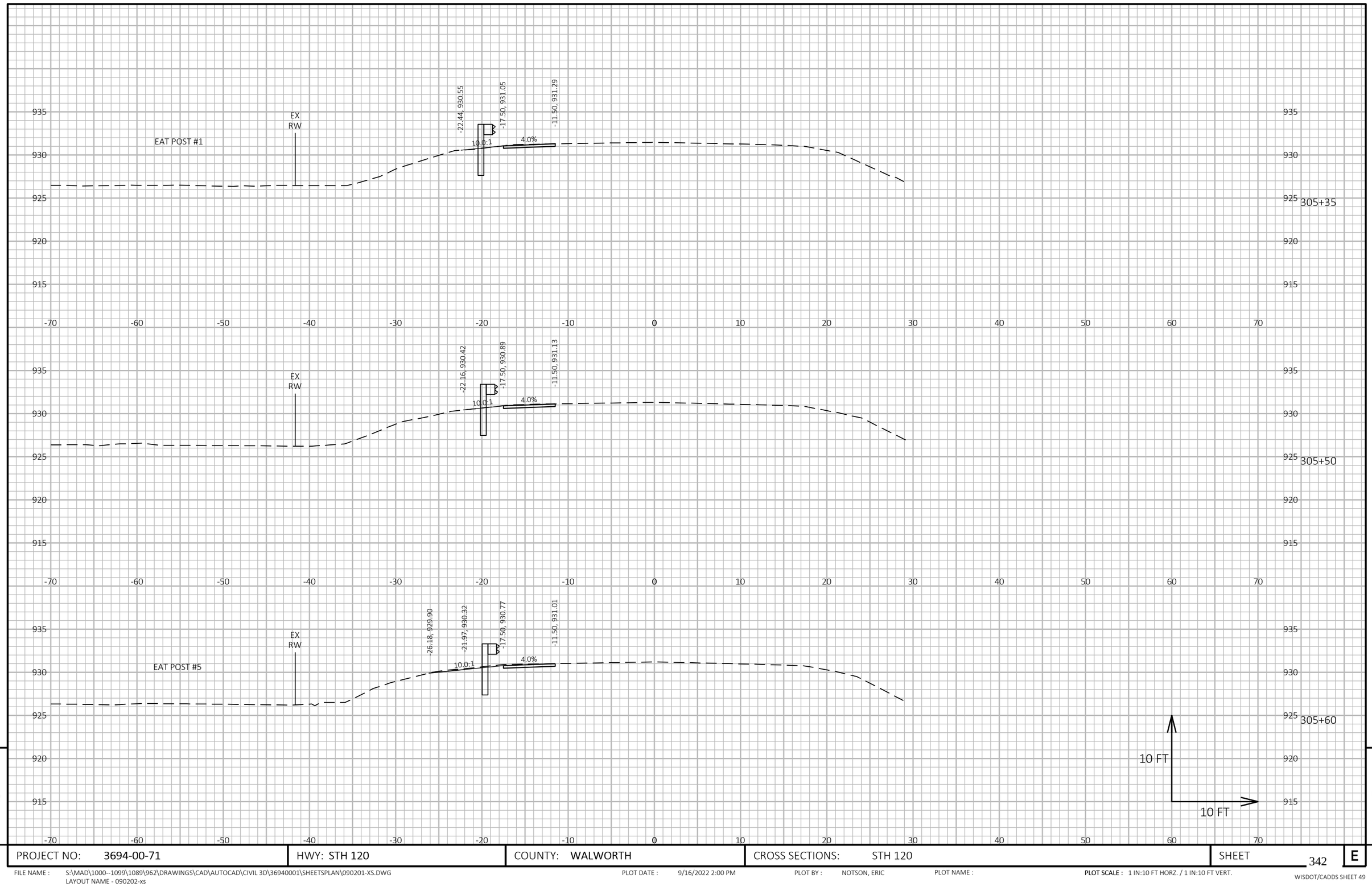
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 341	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 9/16/2022 2:00 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

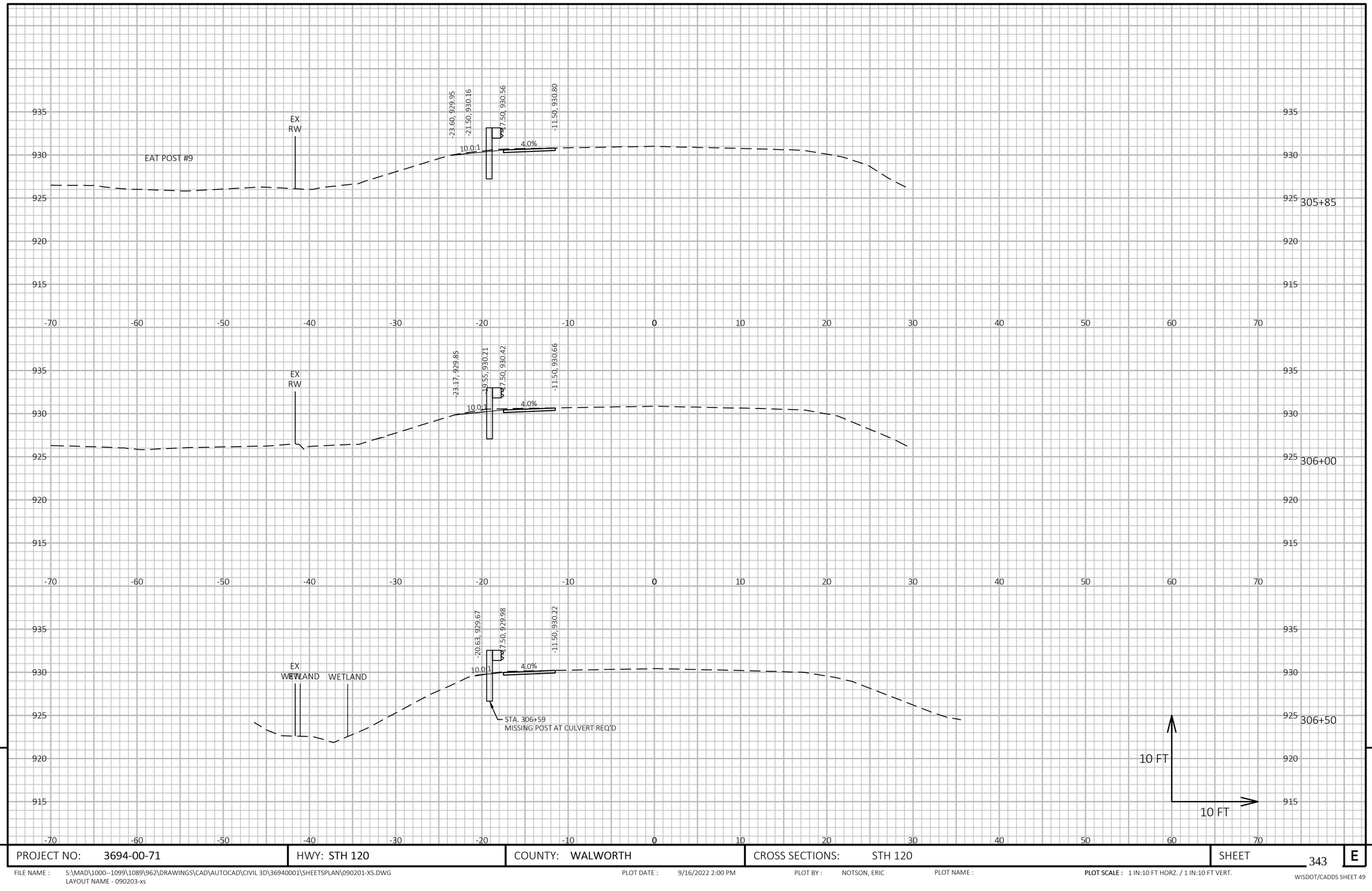
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 342	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 9/16/2022 2:00 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

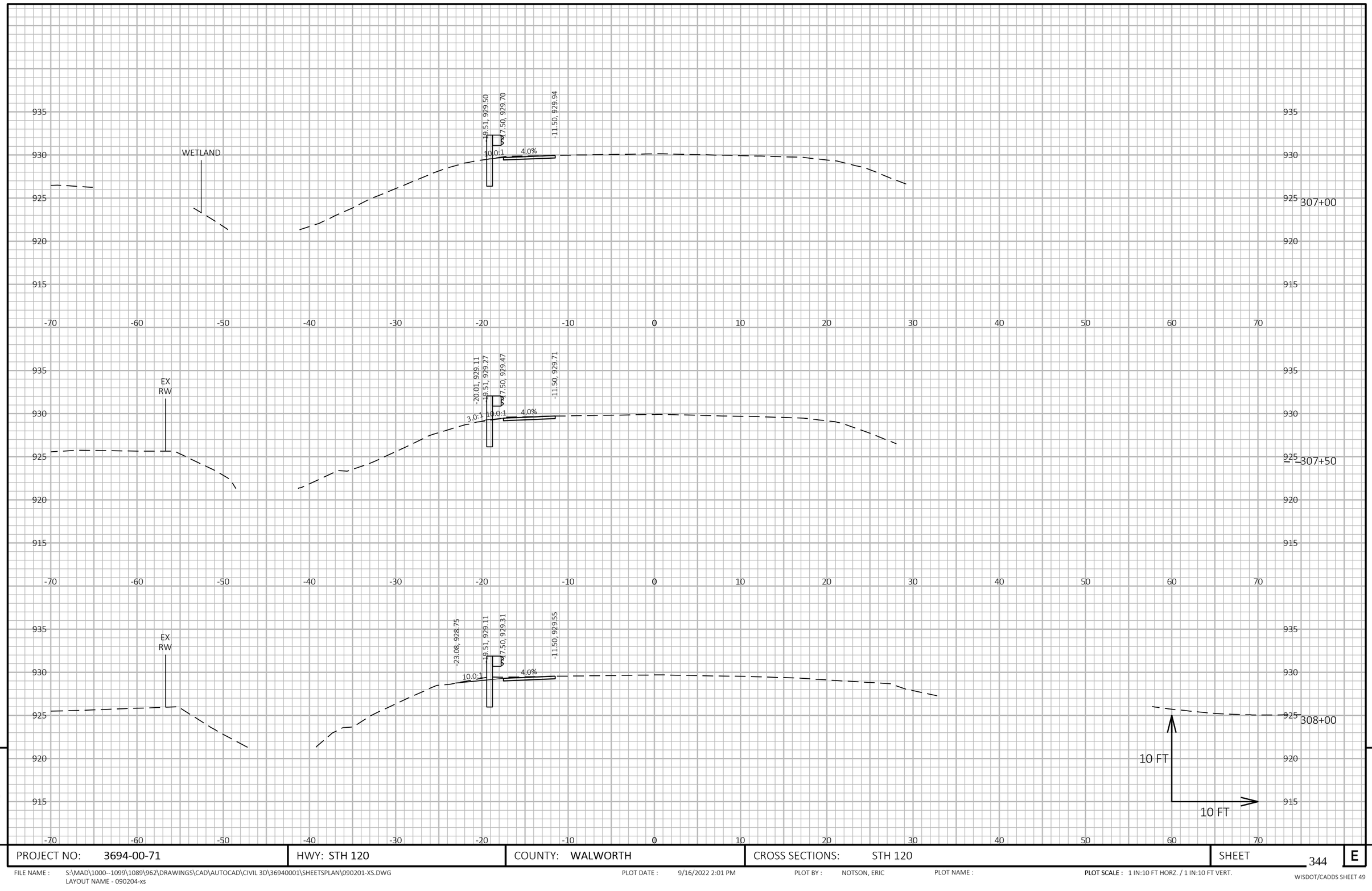
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 343	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 9/16/2022 2:00 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

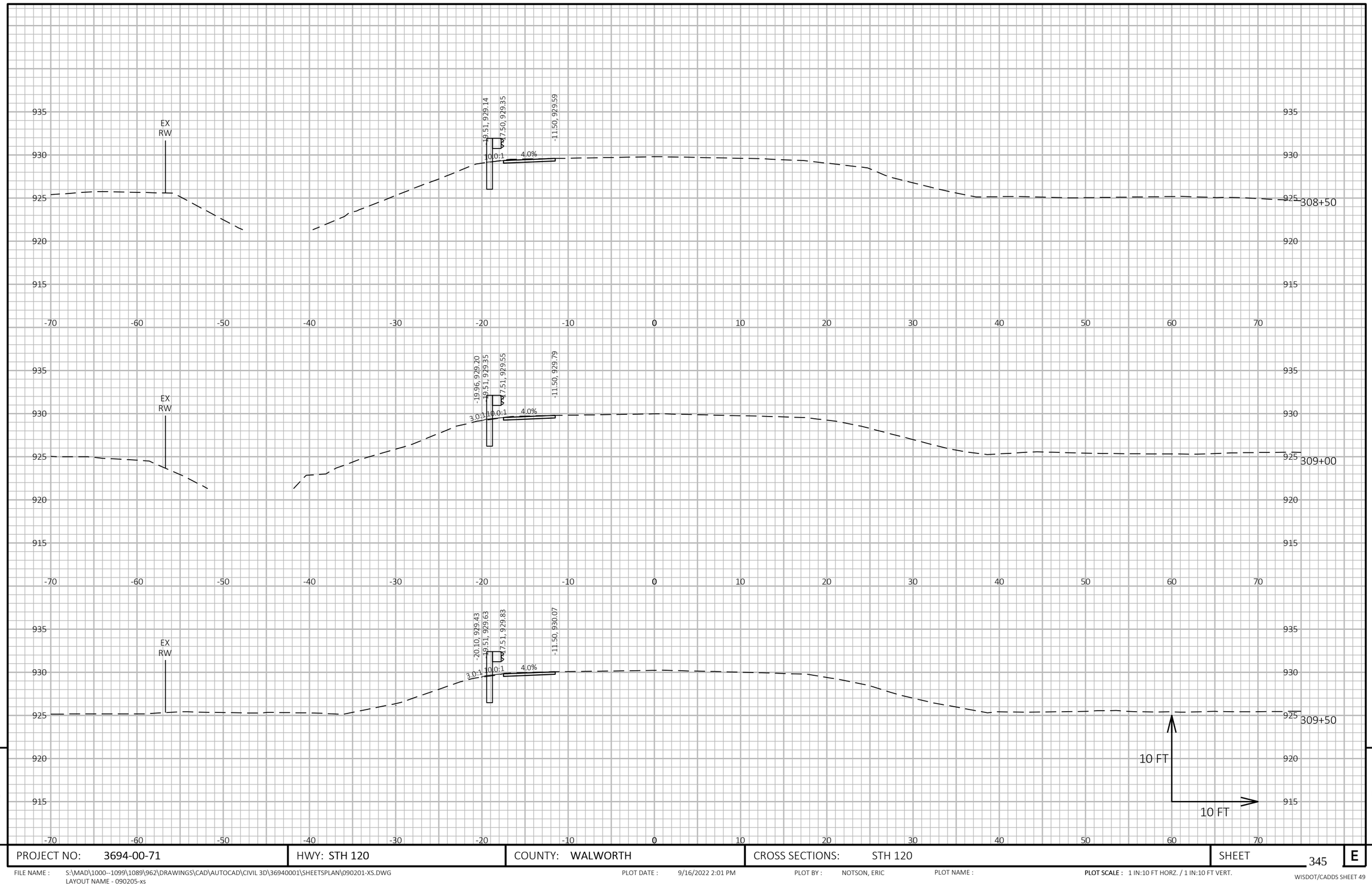
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 344	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 9/16/2022 2:01 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

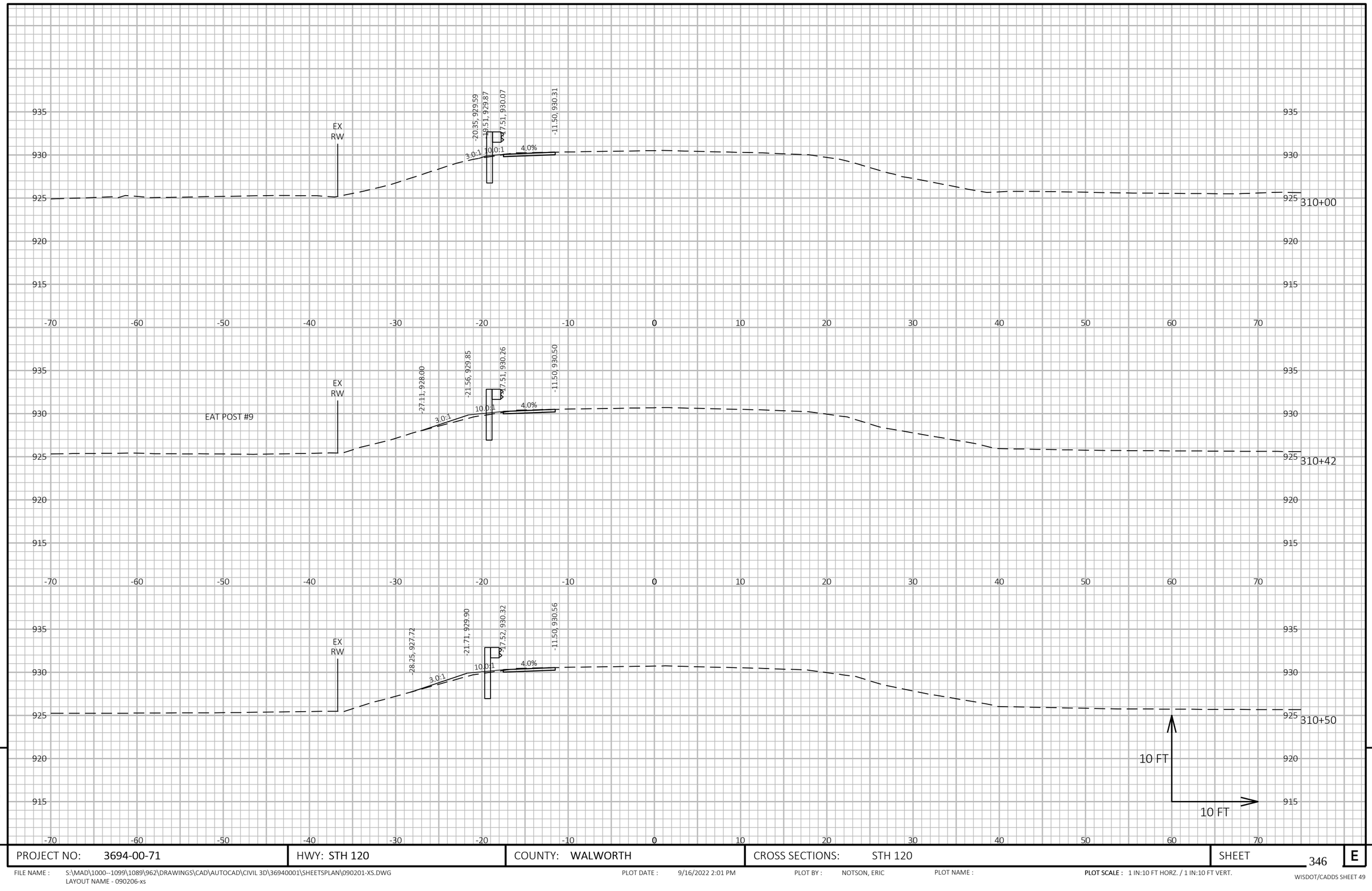
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 345	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090205-xs

PLOT DATE : 9/16/2022 2:01 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



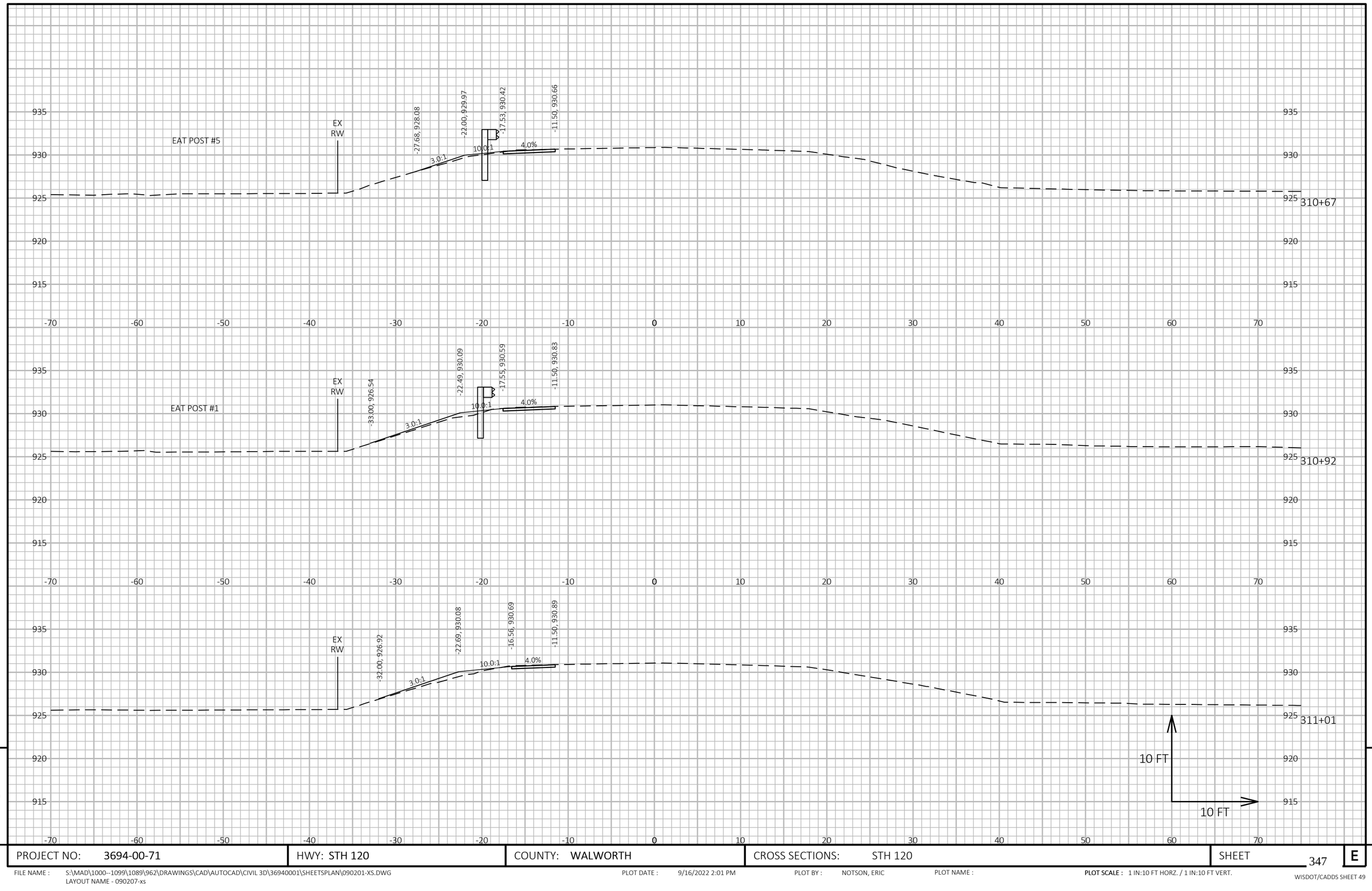
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 346	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090206-xs

PLOT DATE : 9/16/2022 2:01 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

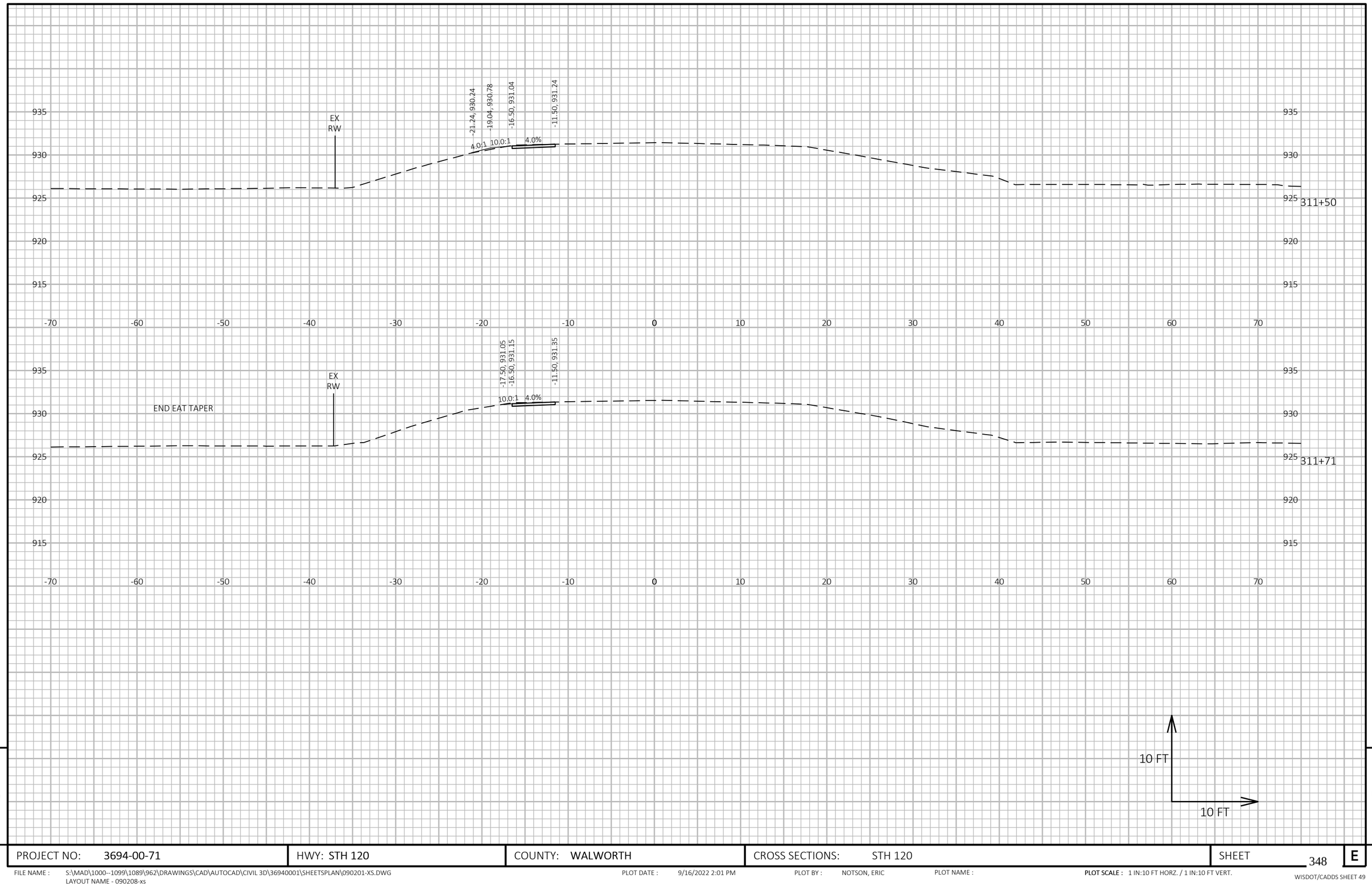


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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 347	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090207-xs
PLOT DATE : 9/16/2022 2:01 PM
PLOT BY : NOTSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

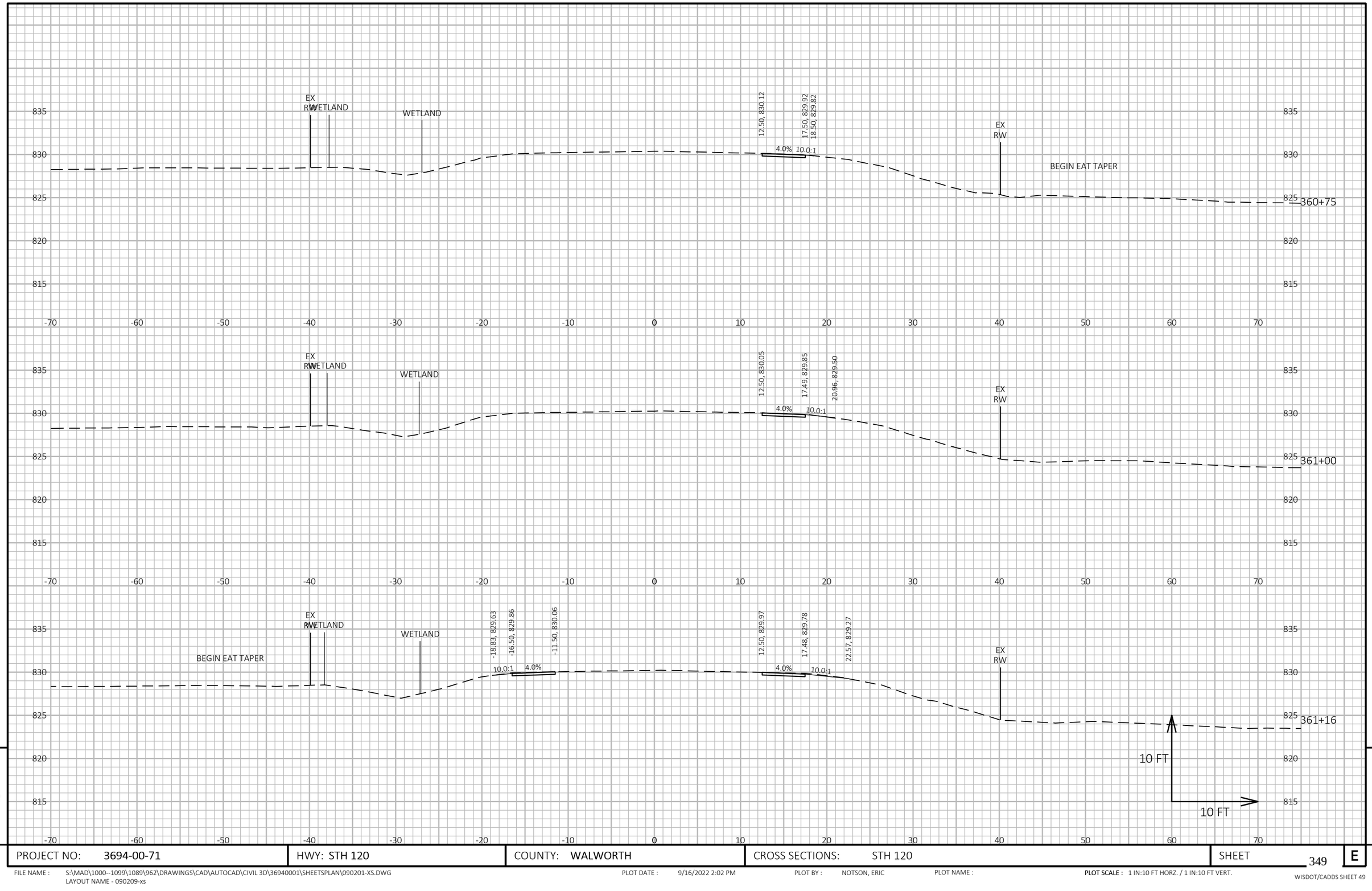
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 348	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090208-xs

PLOT DATE : 9/16/2022 2:01 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 349	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090209-xs

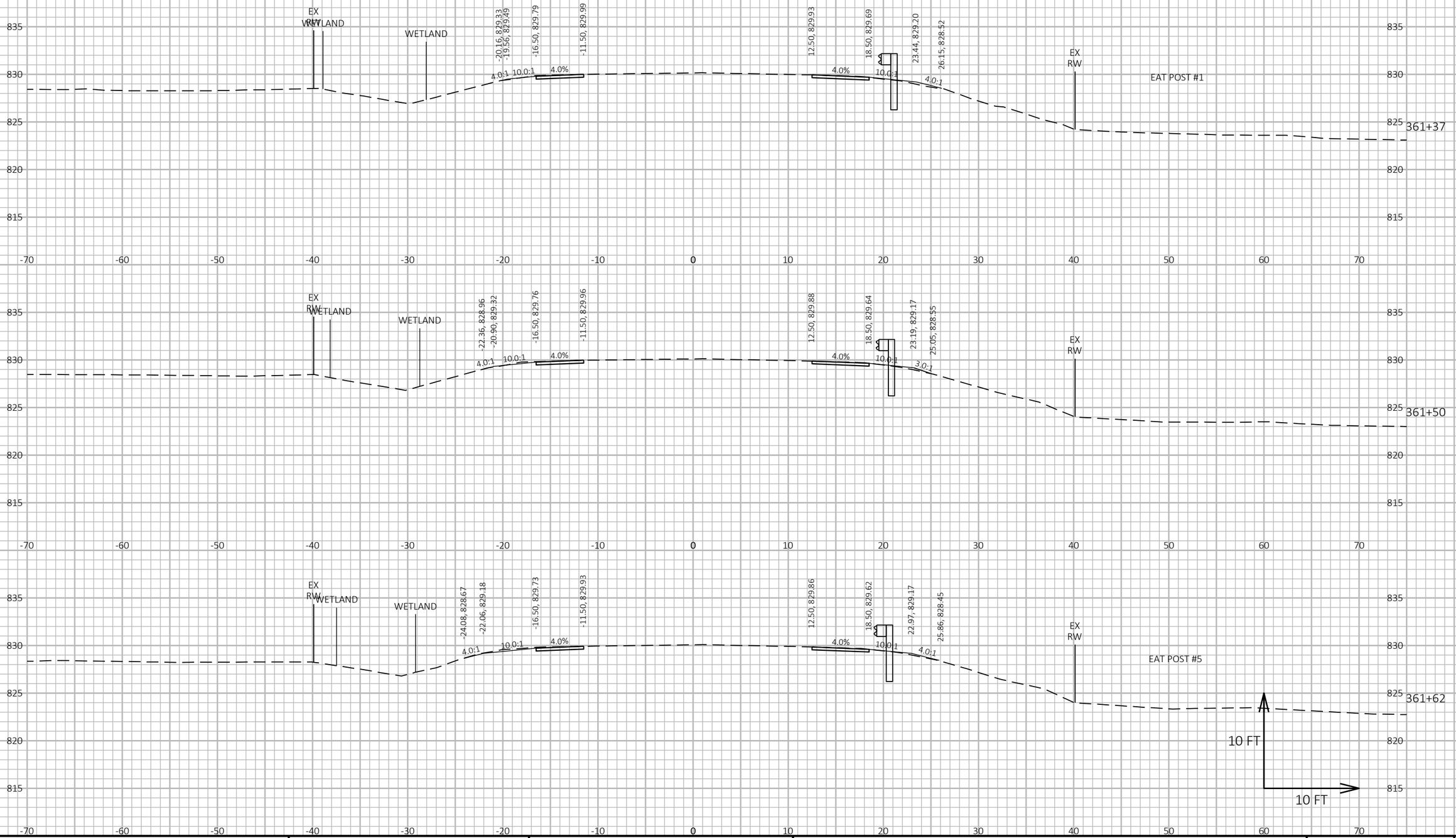
PLOT DATE : 9/16/2022 2:02 PM

PLOT BY : NOTSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

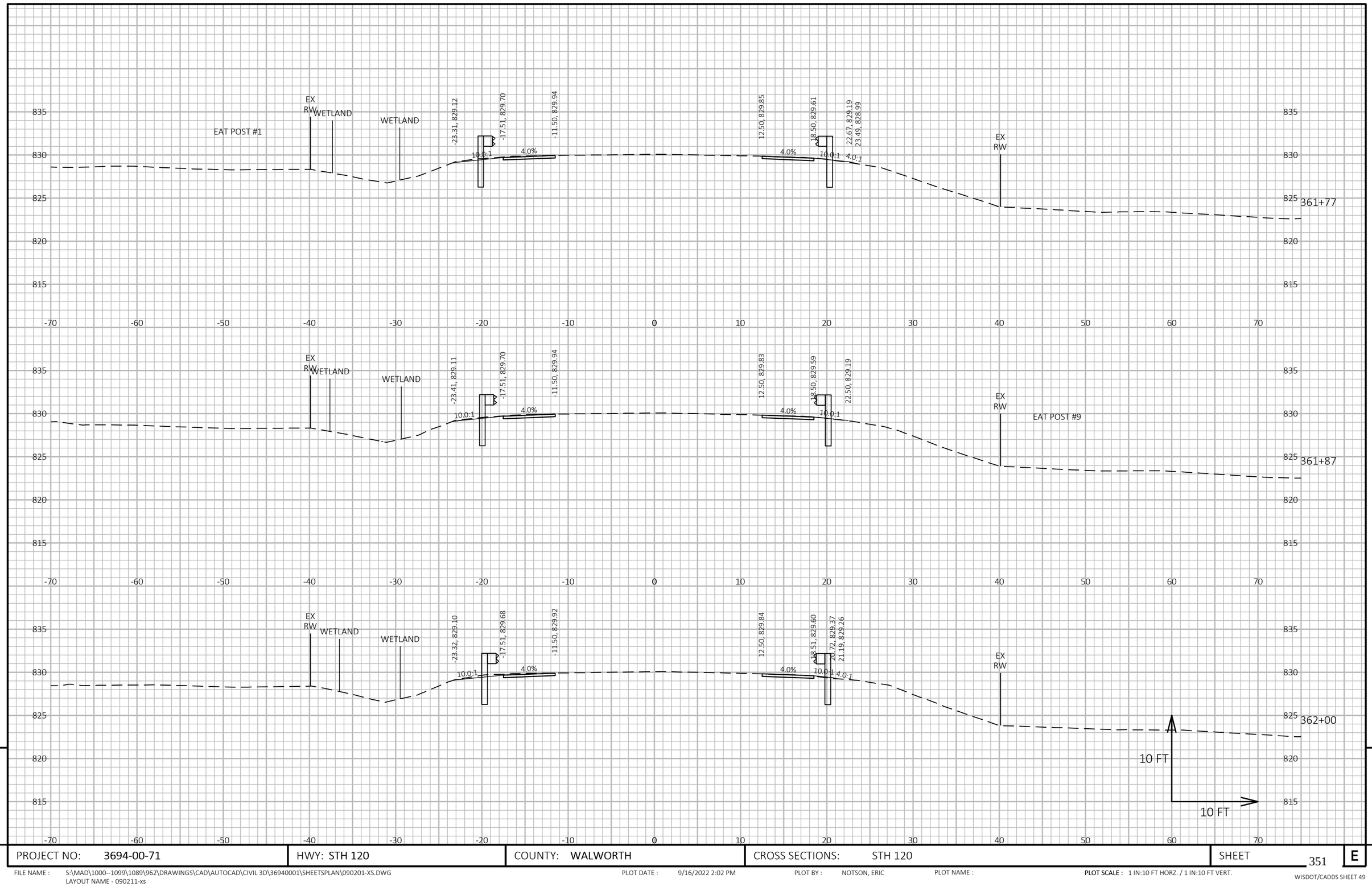
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 350	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090210-xs

PLOT DATE : 9/16/2022 2:02 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

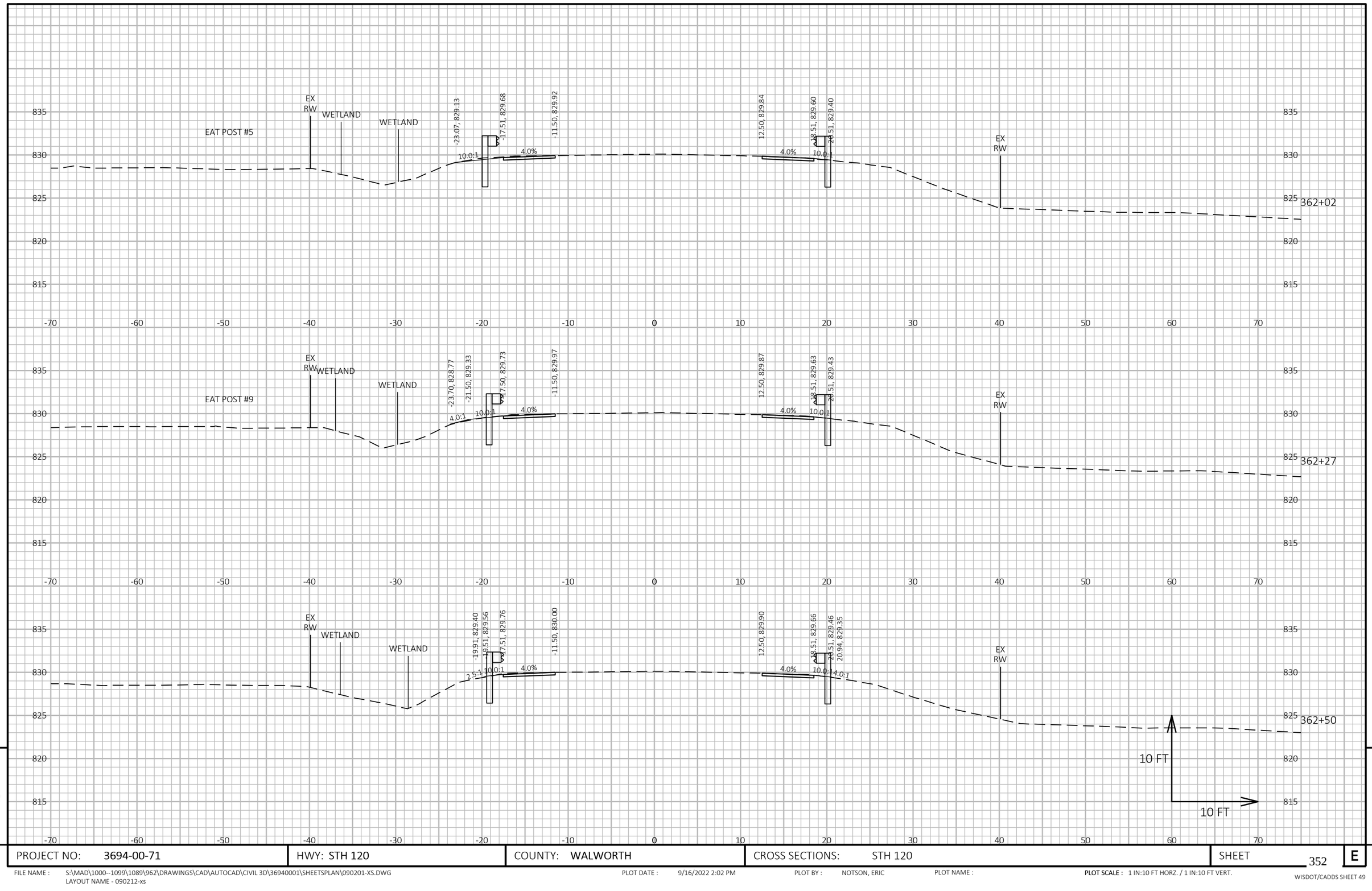
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 351	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090211-xs

PLOT DATE : 9/16/2022 2:02 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

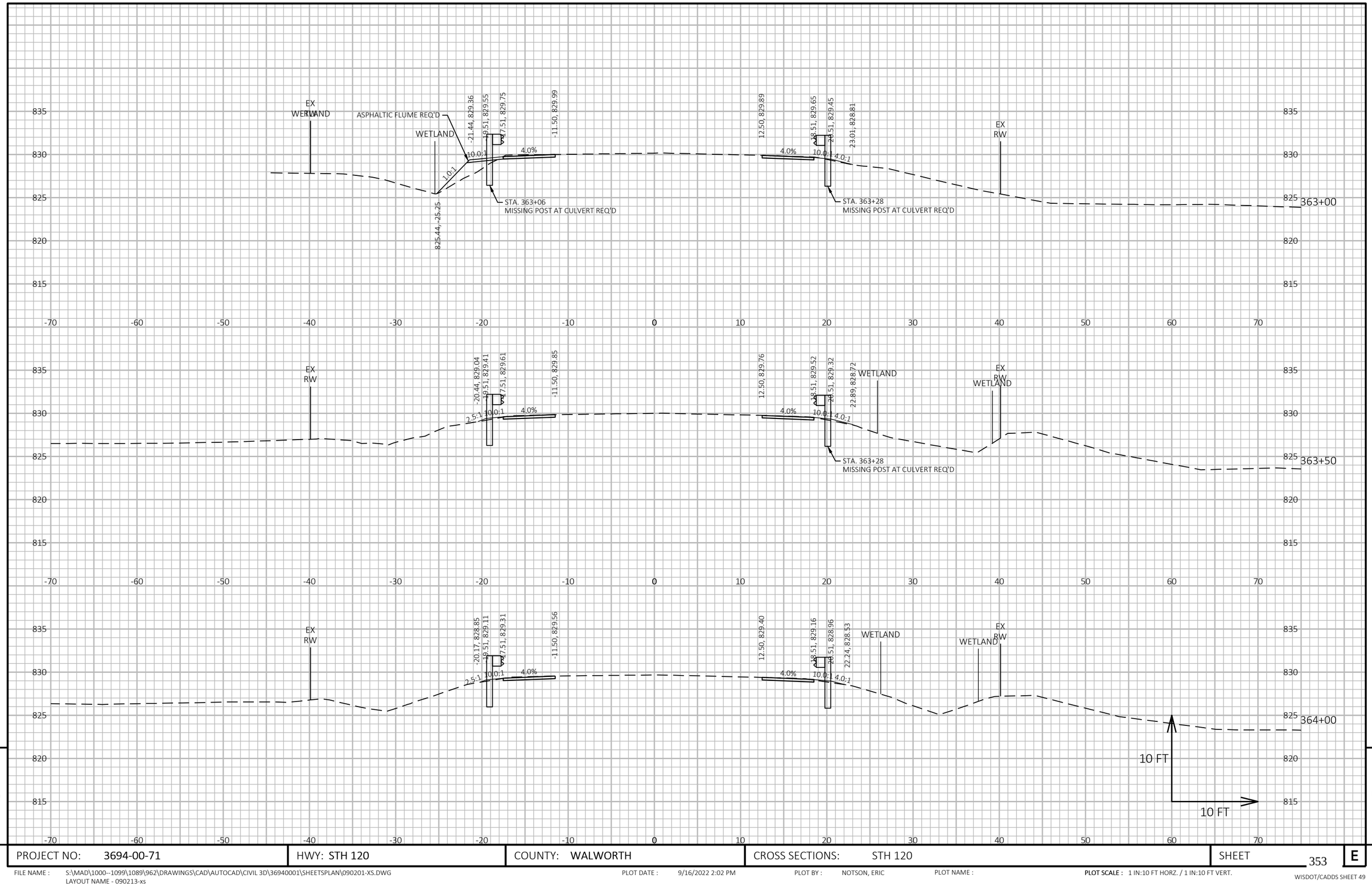
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 352	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090212-xs

PLOT DATE : 9/16/2022 2:02 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 353	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090213-xs

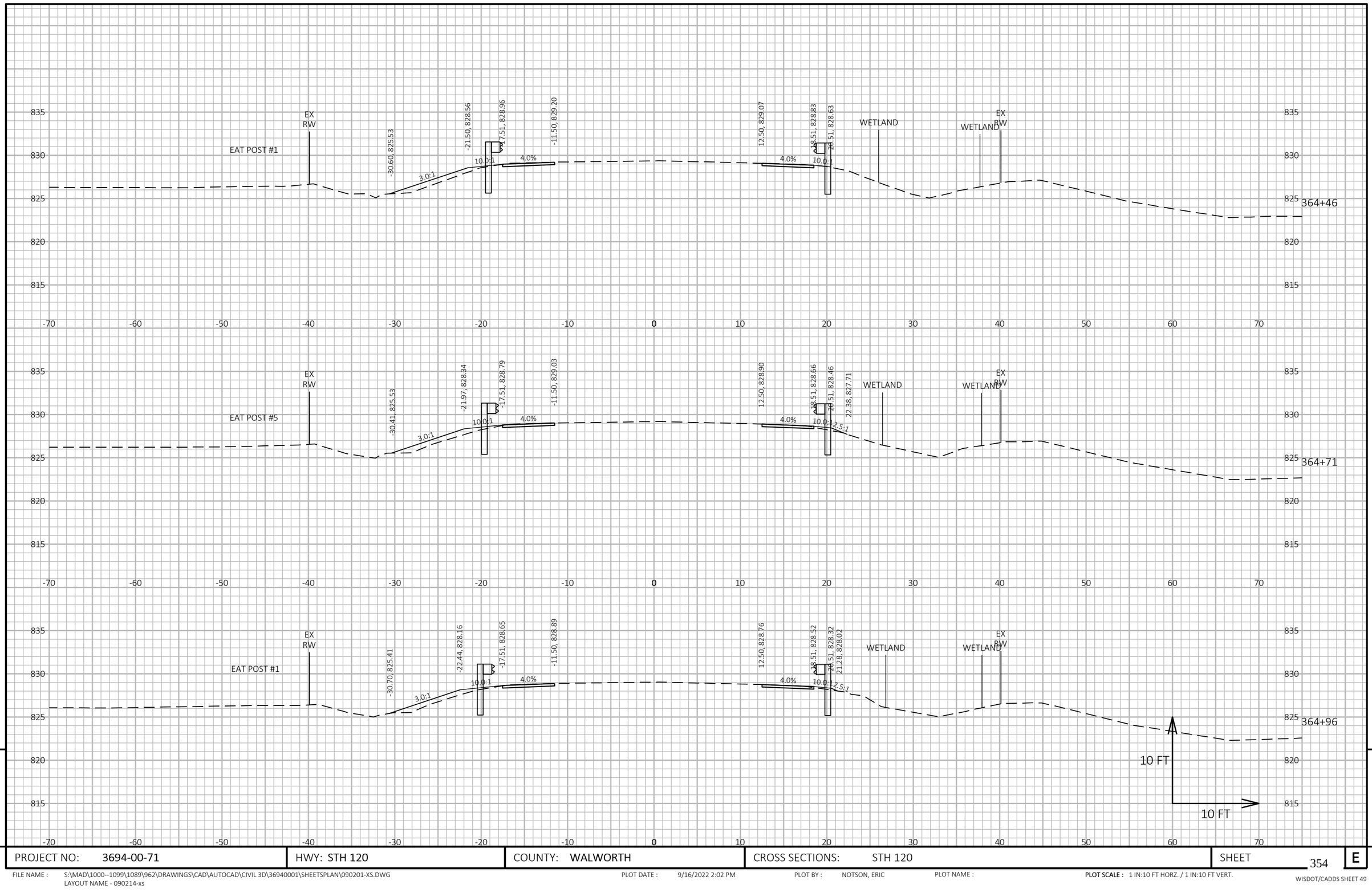
PLOT DATE : 9/16/2022 2:02 PM

PLOT BY : NOTSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

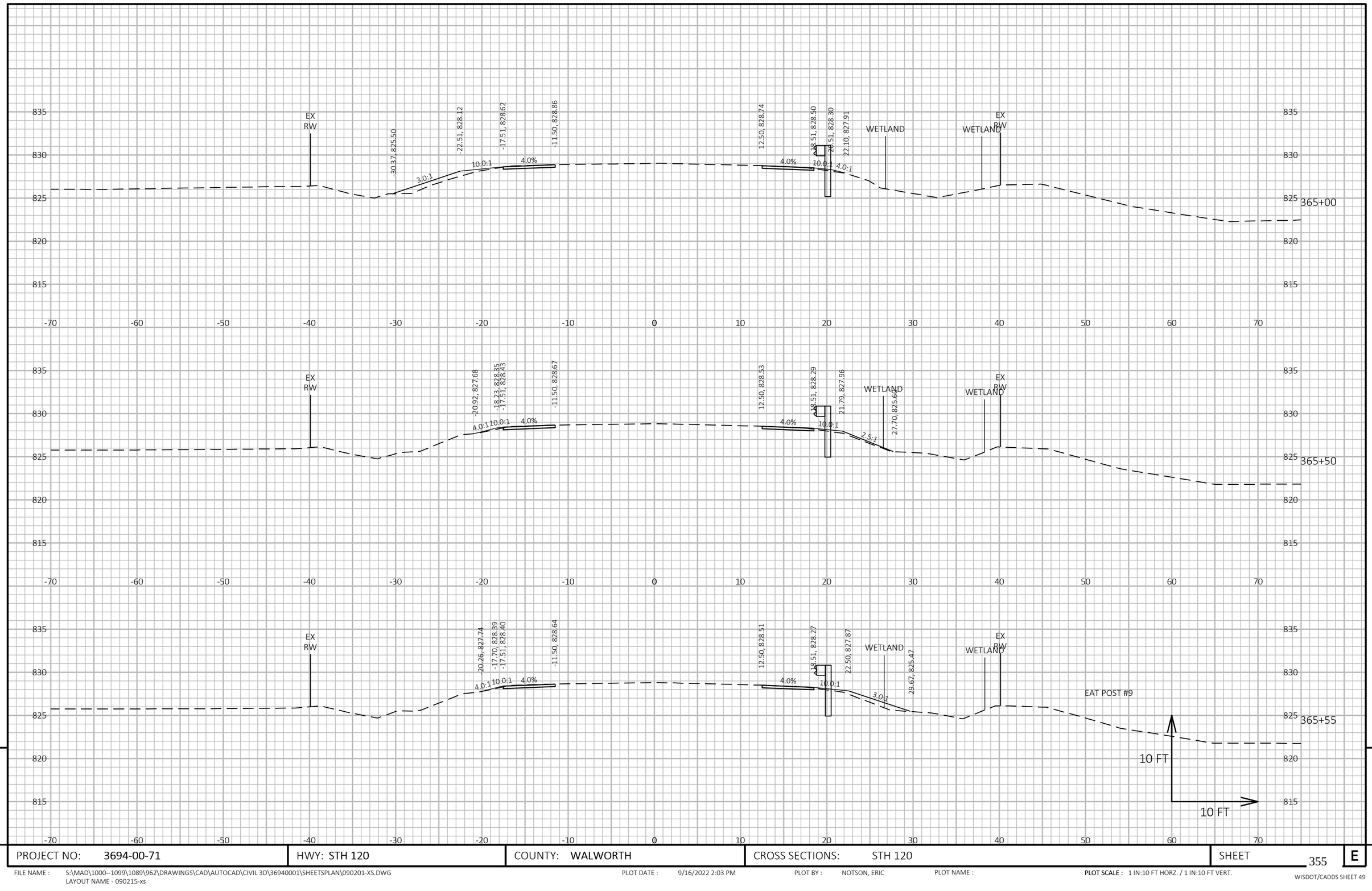
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 354	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090214-xs

PLOT DATE : 9/16/2022 2:02 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

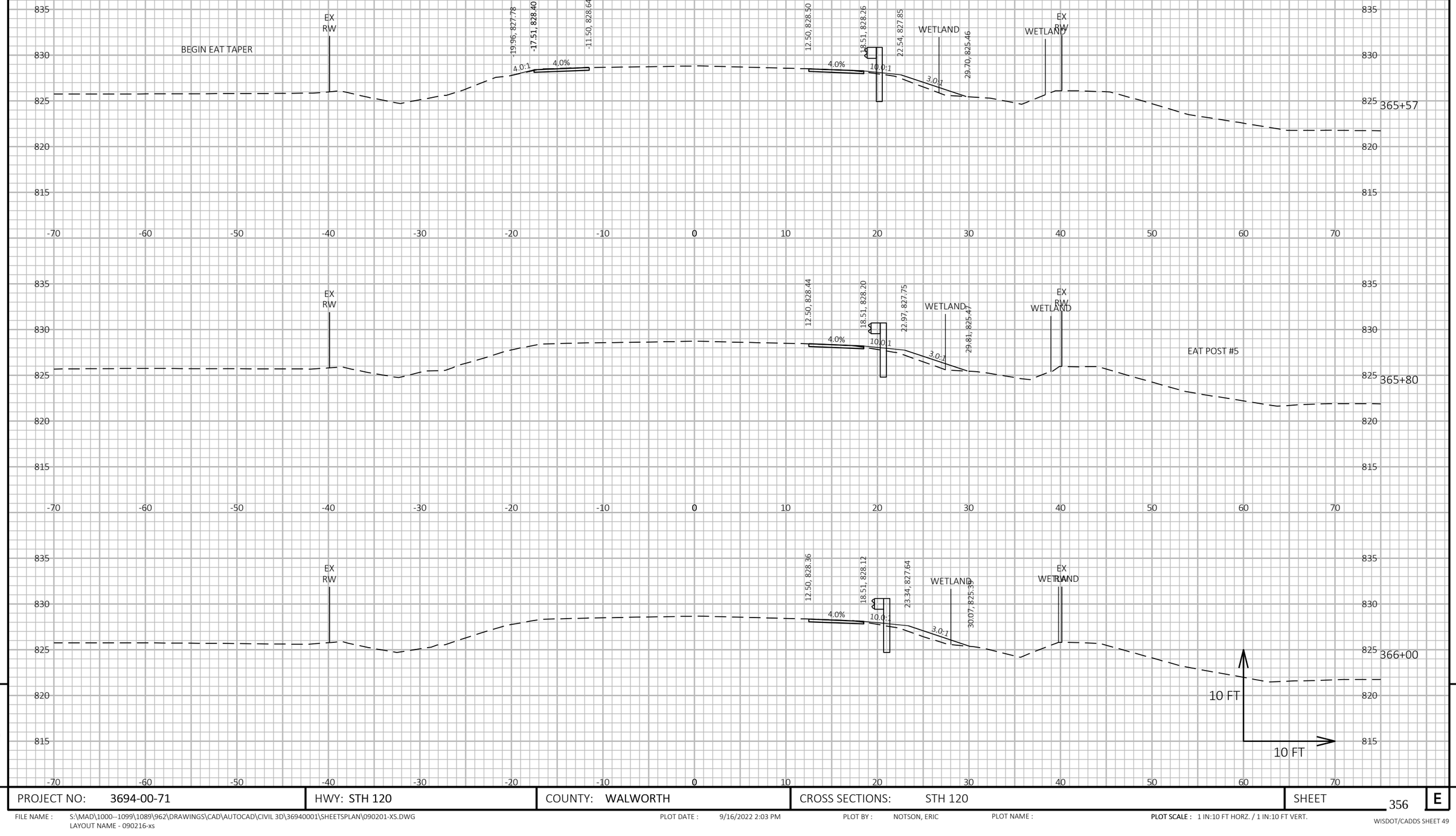


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 355	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090215-xs

PLOT DATE : 9/16/2022 2:03 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 356	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090216-xs

PLOT DATE : 9/16/2022 2:03 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

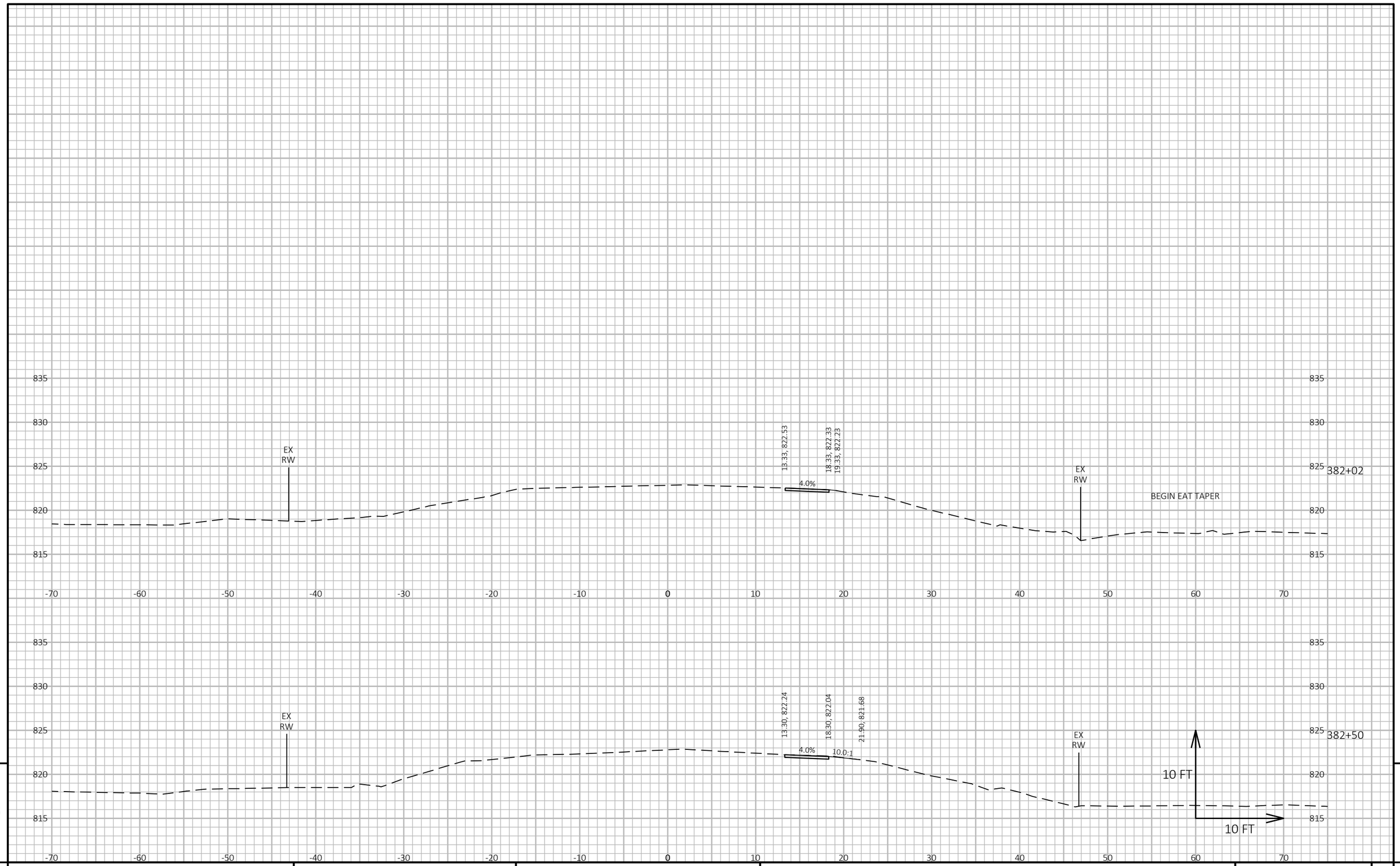


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 357	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090217-xs

PLOT DATE : 9/16/2022 2:03 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

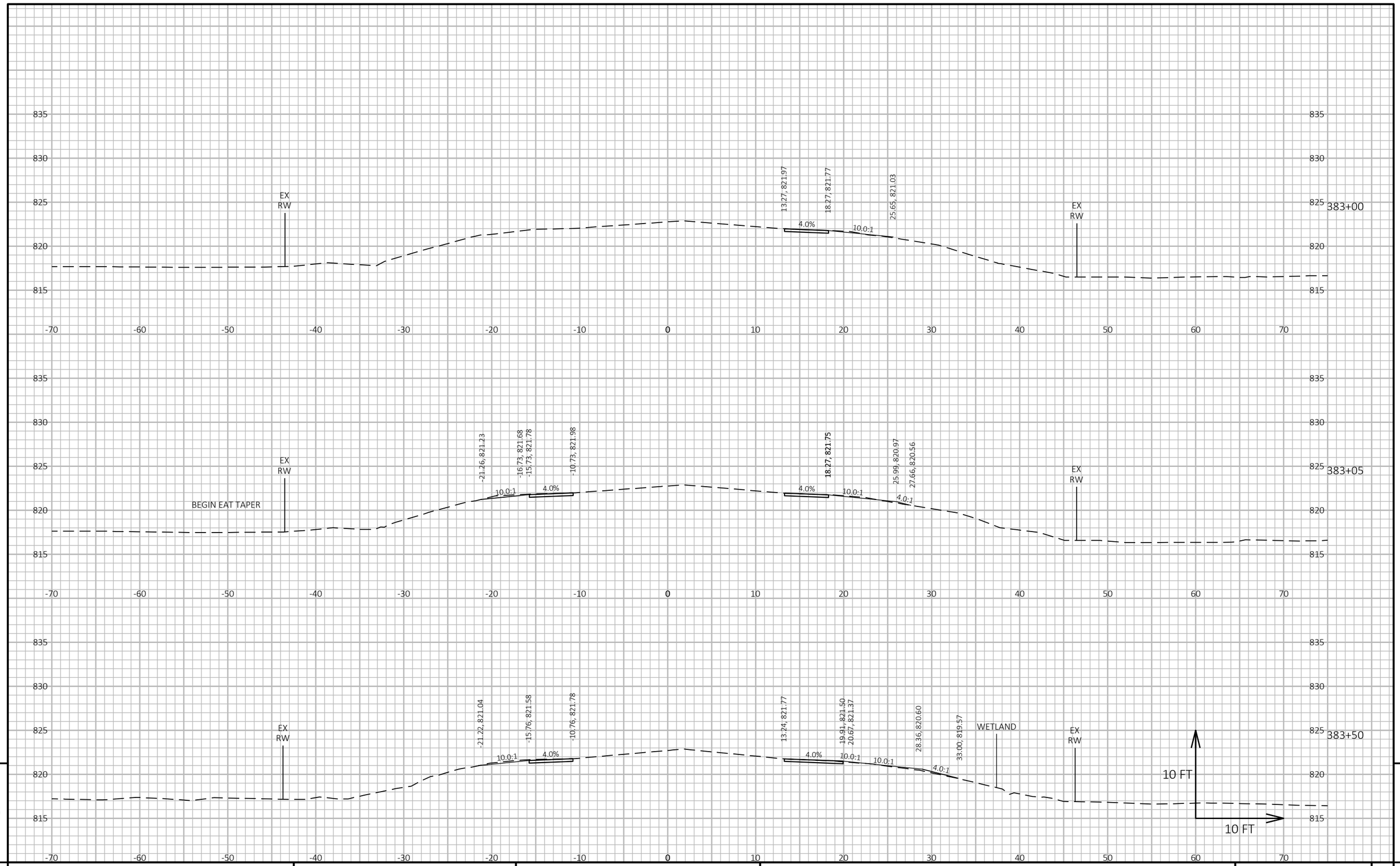
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 358	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090219-xs

PLOT DATE : 9/16/2022 2:03 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 359	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090220-xs

PLOT DATE : 9/16/2022 2:03 PM

PLOT BY : NOTSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 360	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090221-xs

PLOT DATE : 9/16/2022 2:04 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 361	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090222-xs

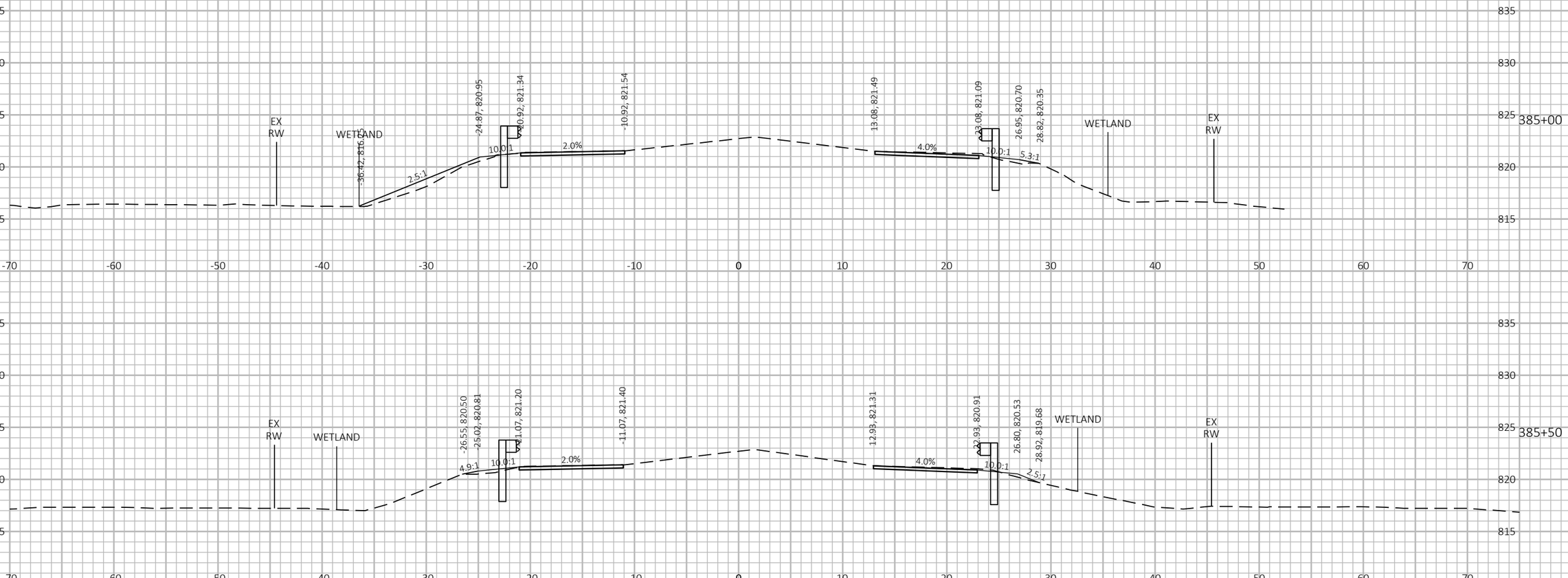
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PLOT BY : NOTSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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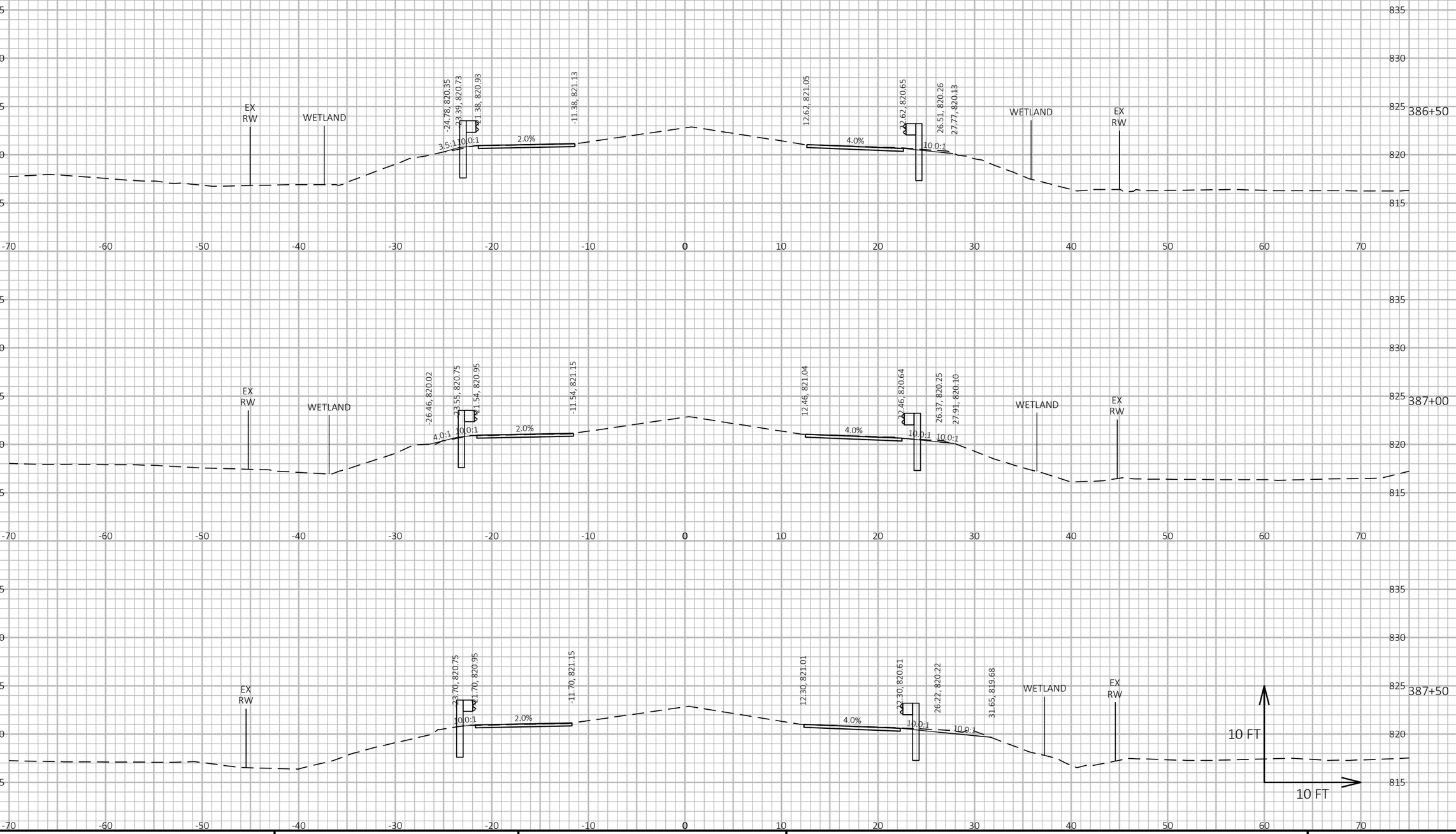
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 362	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090223-xs

PLOT DATE : 9/16/2022 2:04 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 363	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090224-xs

PLOT DATE : 9/16/2022 2:04 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

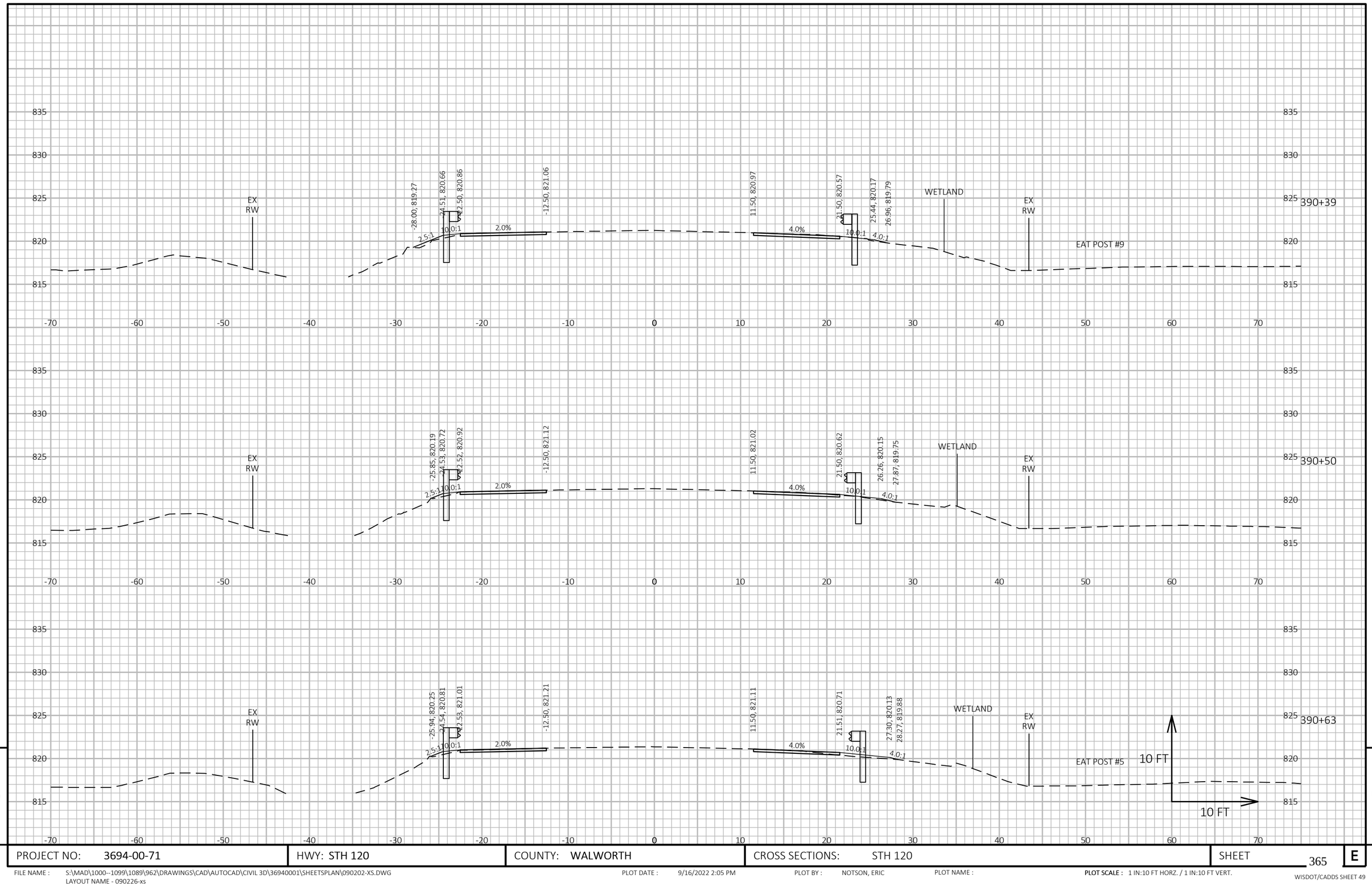


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 364	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090225-xs

PLOT DATE : 9/16/2022 2:04 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 365	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090226-xs

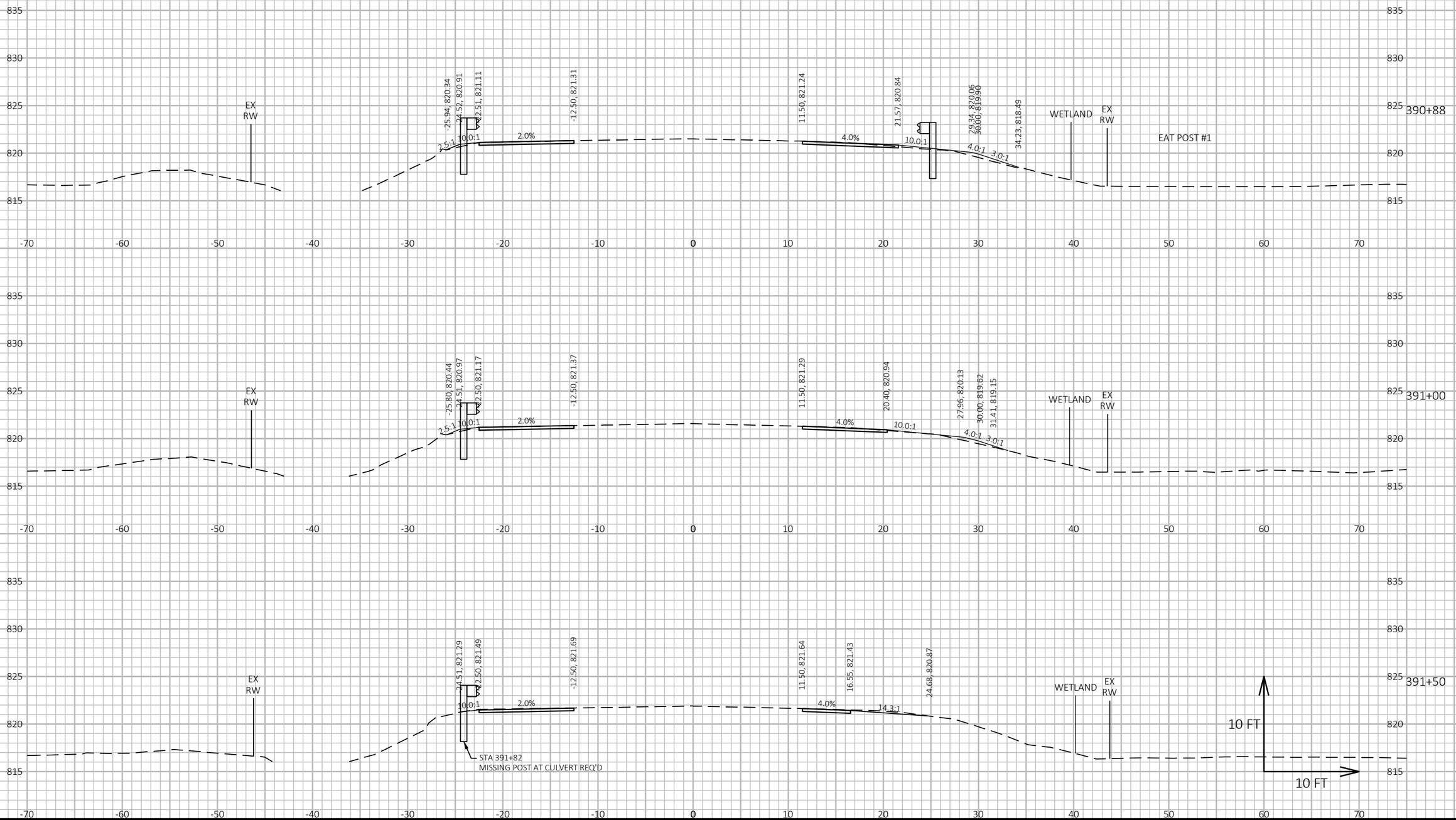
PLOT DATE : 9/16/2022 2:05 PM

PLOT BY : NOTSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

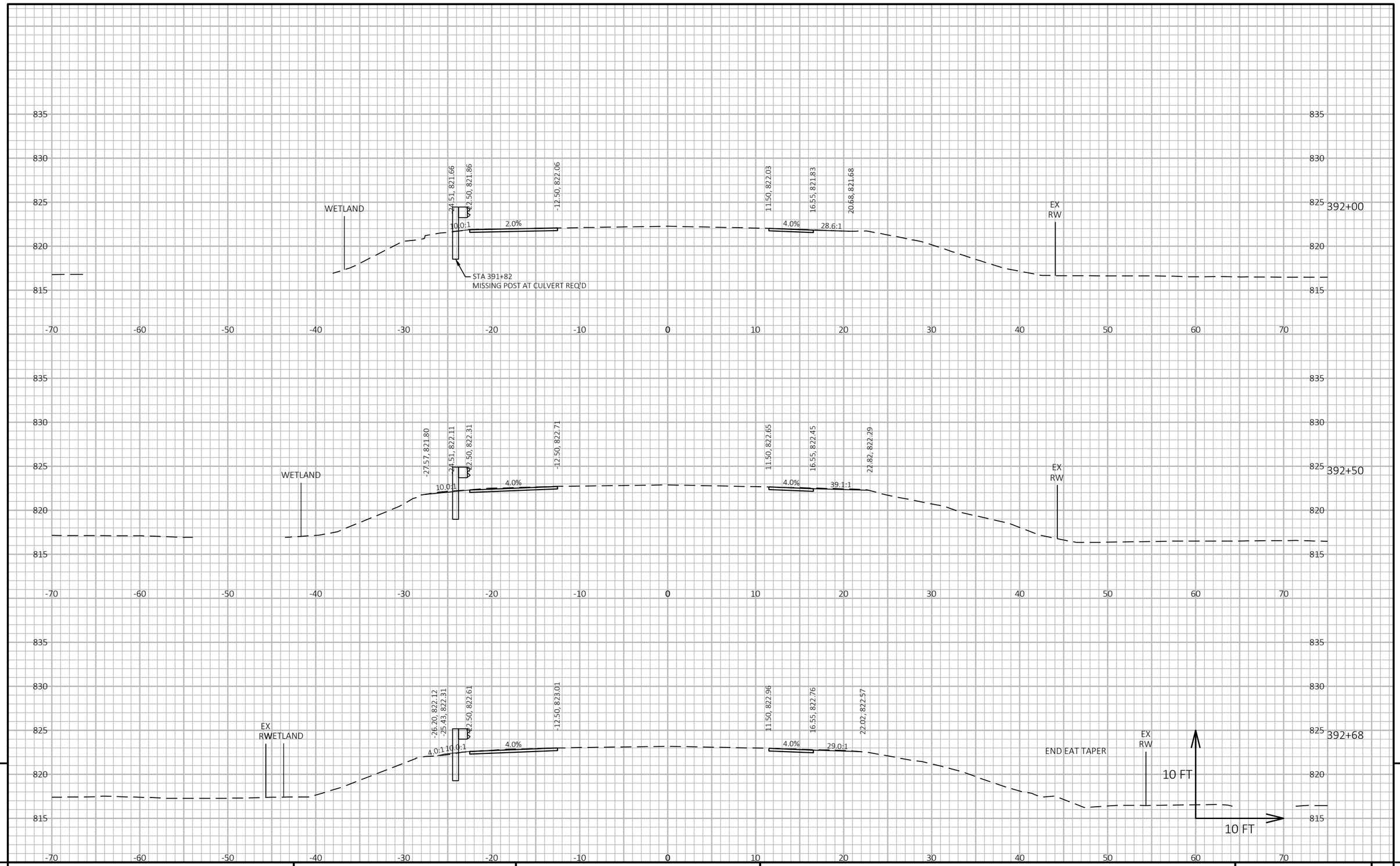


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 366	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090227-xs

PLOT DATE : 9/16/2022 2:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 367	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090228-xs

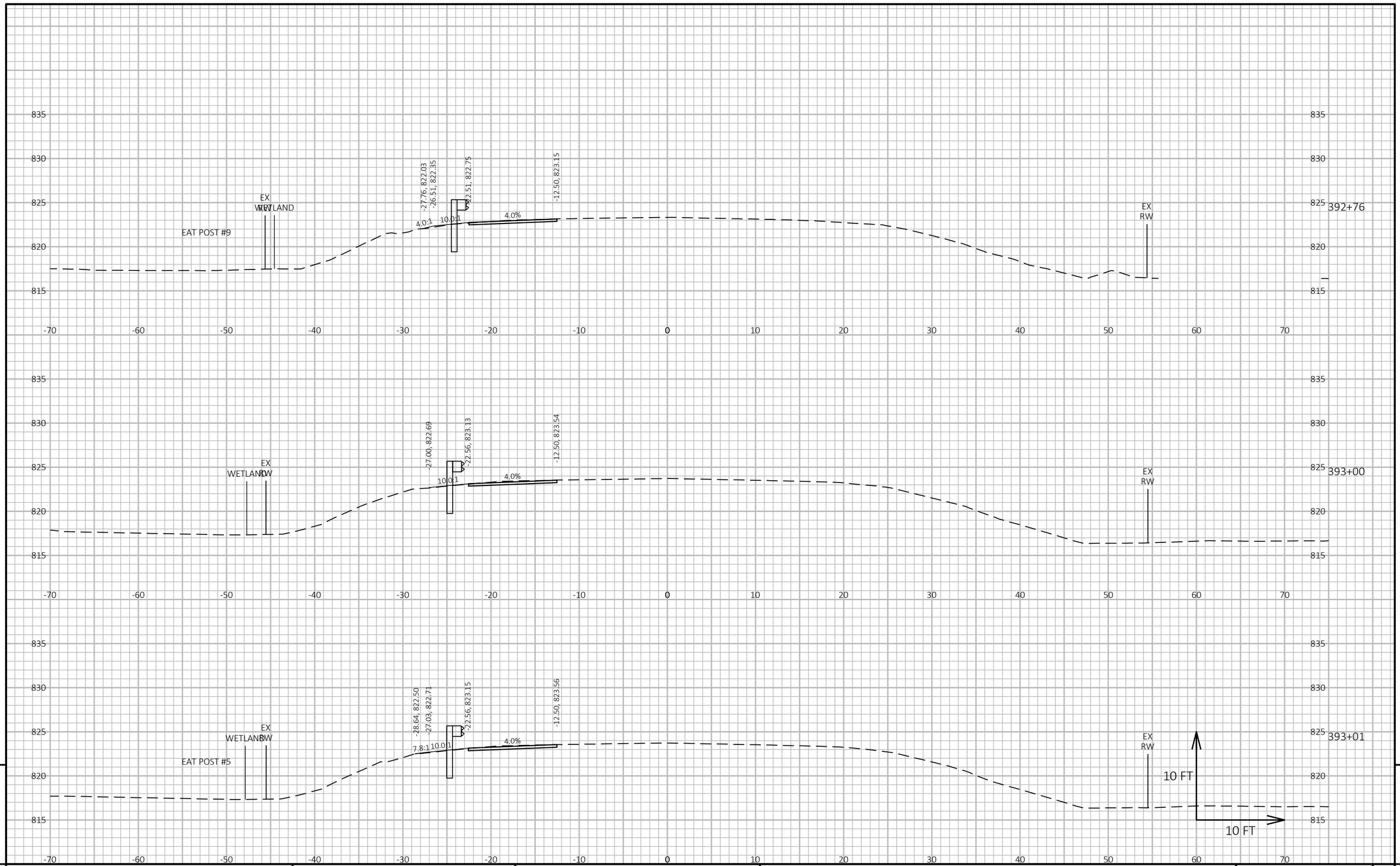
PLOT DATE : 9/16/2022 2:05 PM

PLOT BY : NOTSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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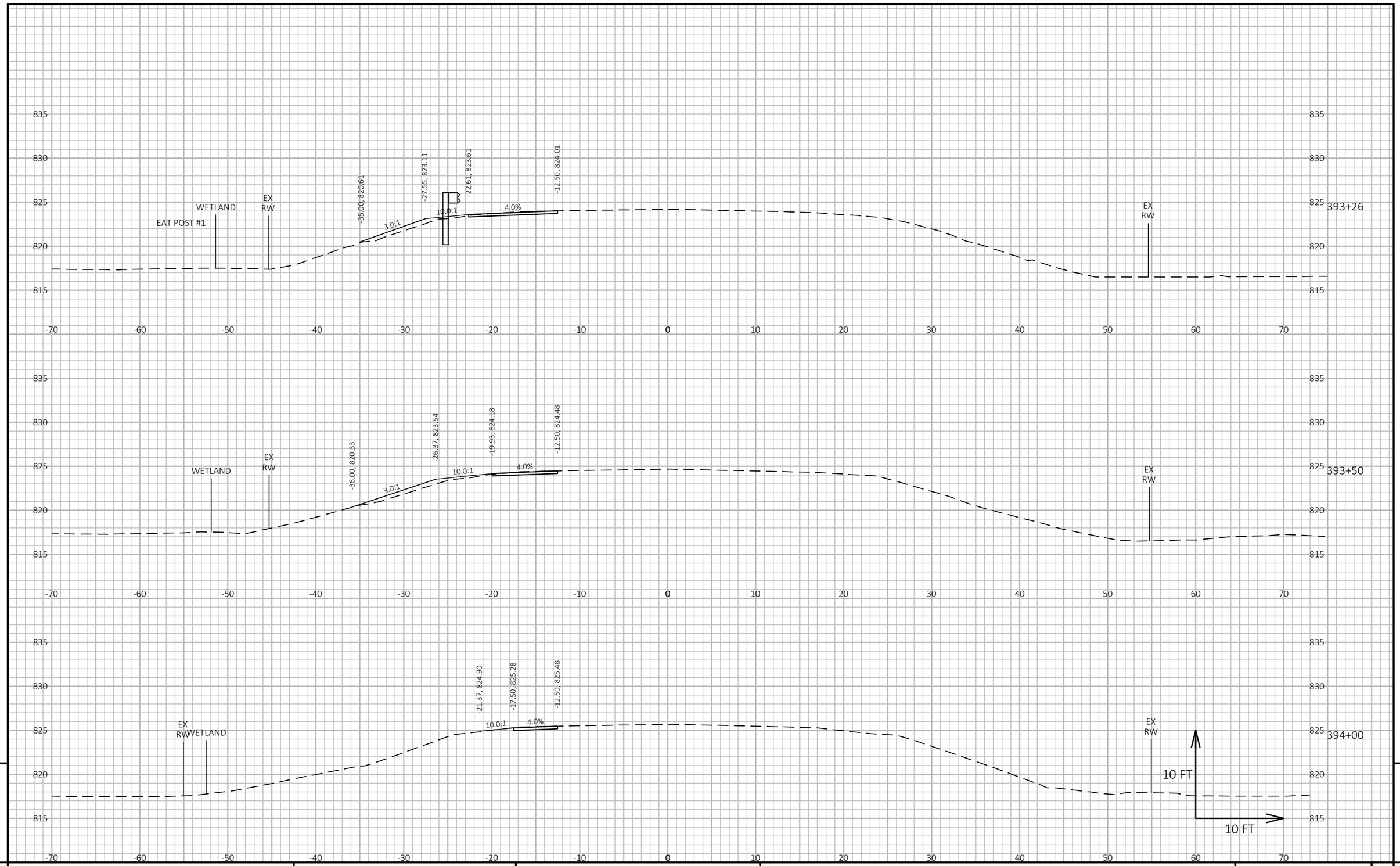
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 368	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090229-xs

PLOT DATE : 9/16/2022 2:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

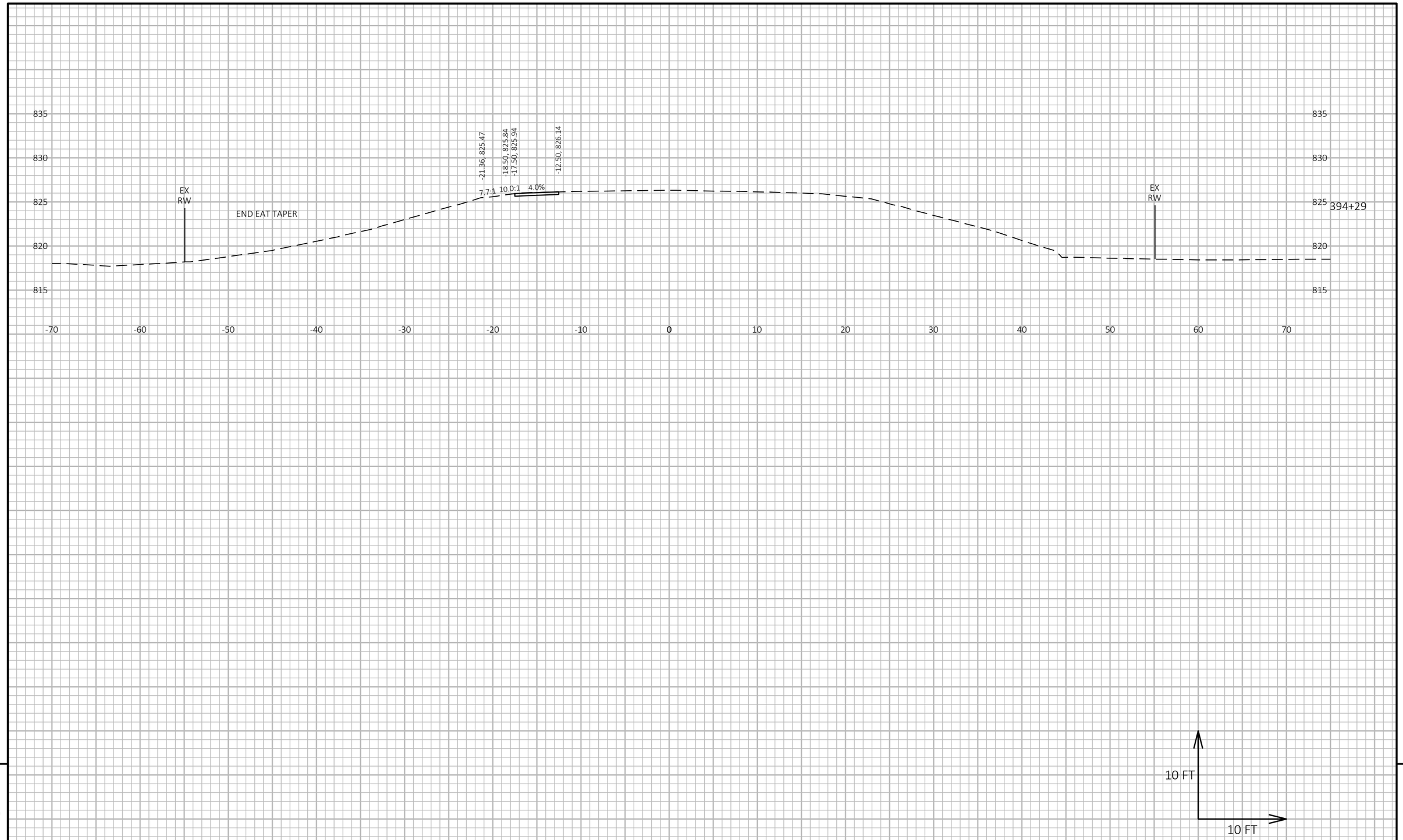


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 369	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090230-xs

PLOT DATE : 9/16/2022 2:05 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

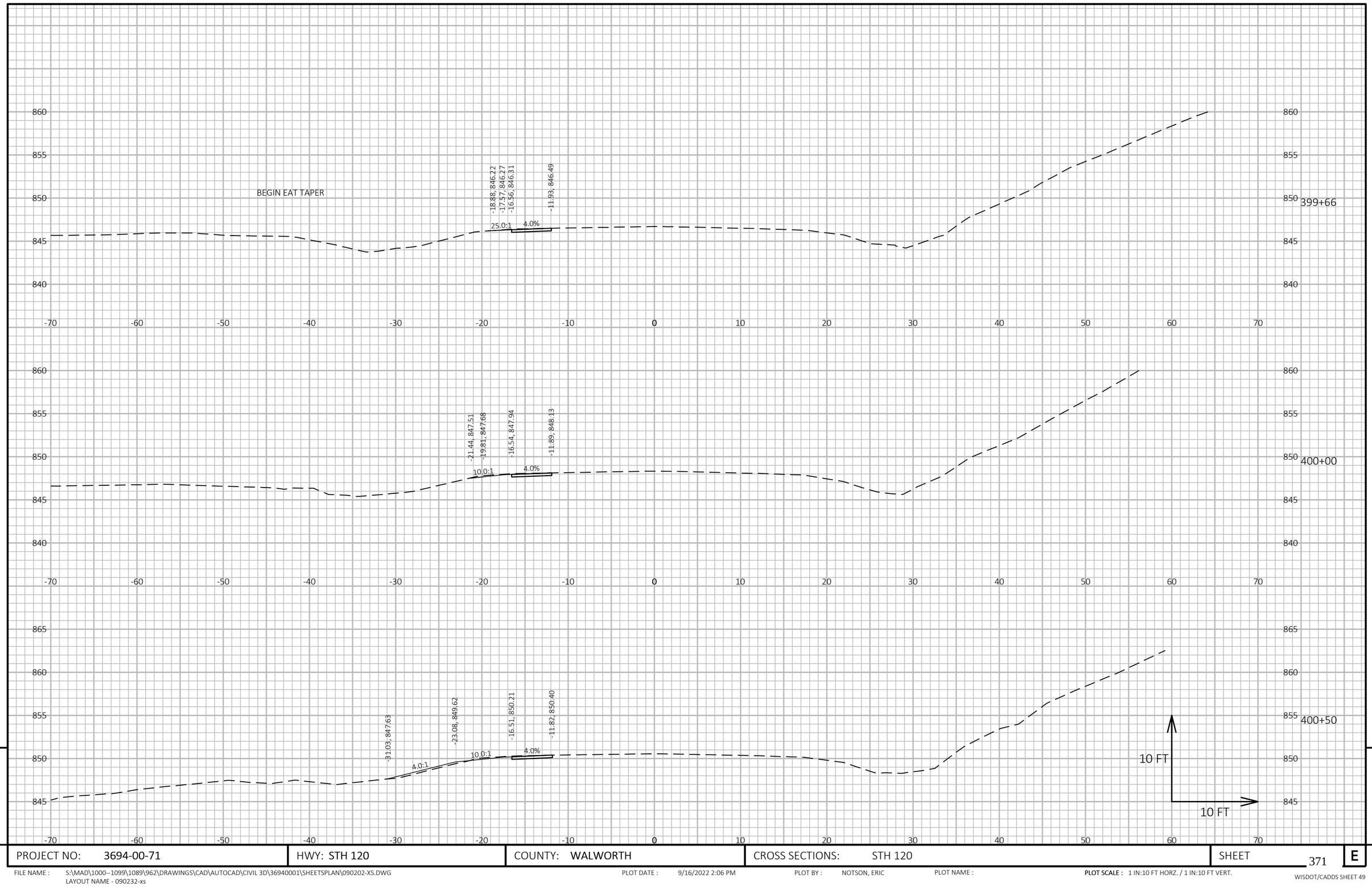
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 370	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090231-xs

PLOT DATE : 9/16/2022 2:06 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



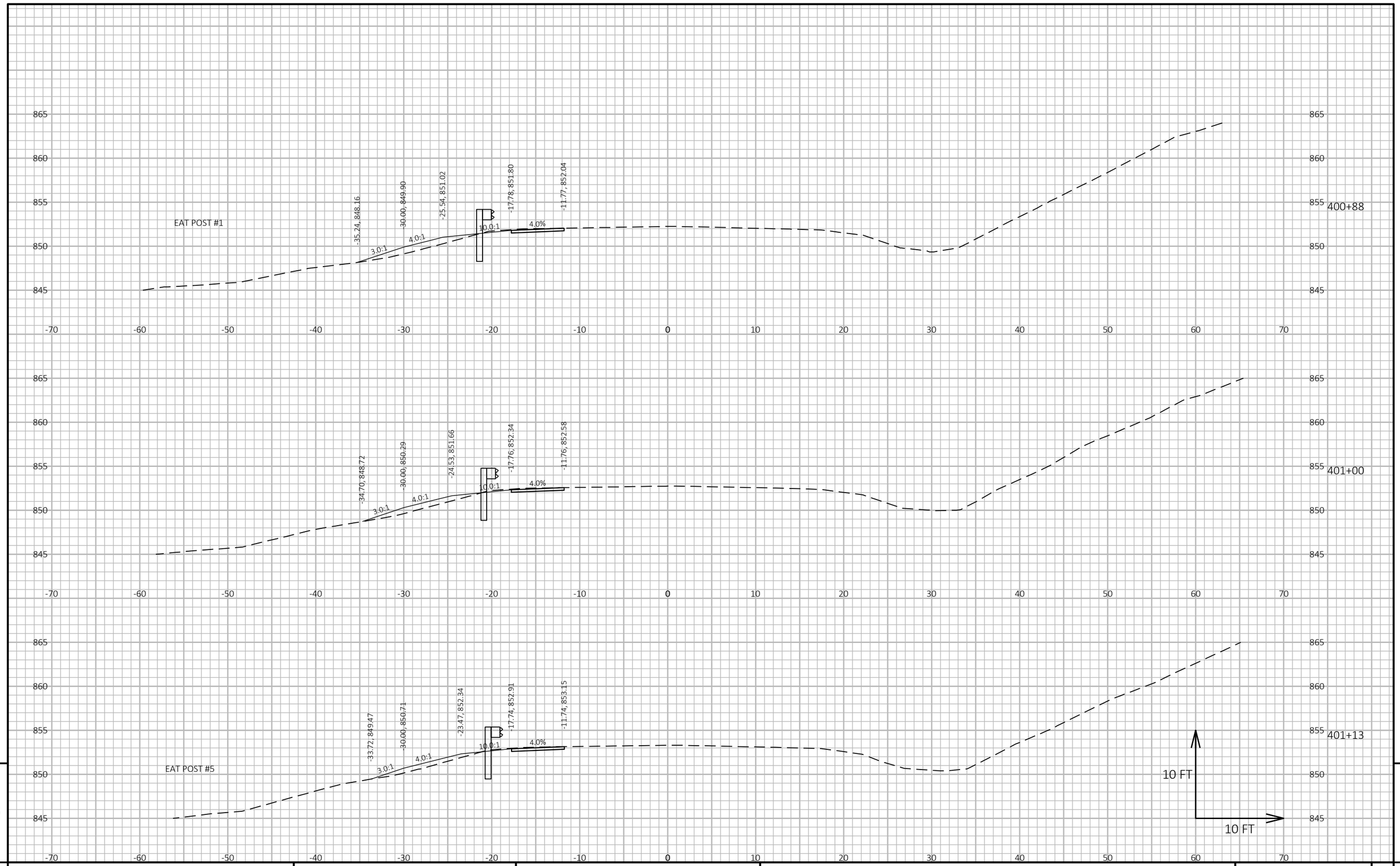
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 371	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090232-xs

PLOT DATE : 9/16/2022 2:06 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



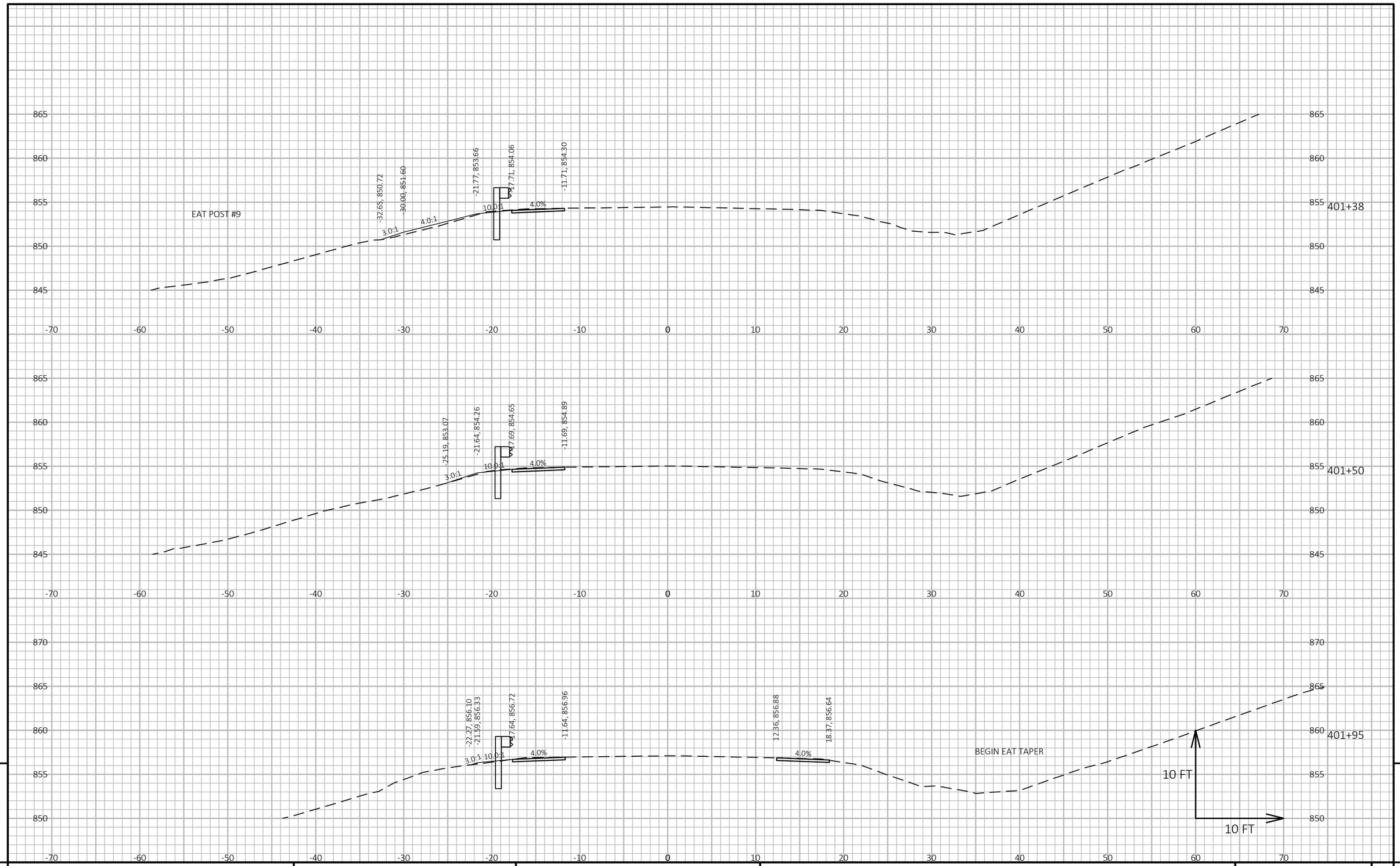
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 372	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090233-xs

PLOT DATE : 9/16/2022 2:06 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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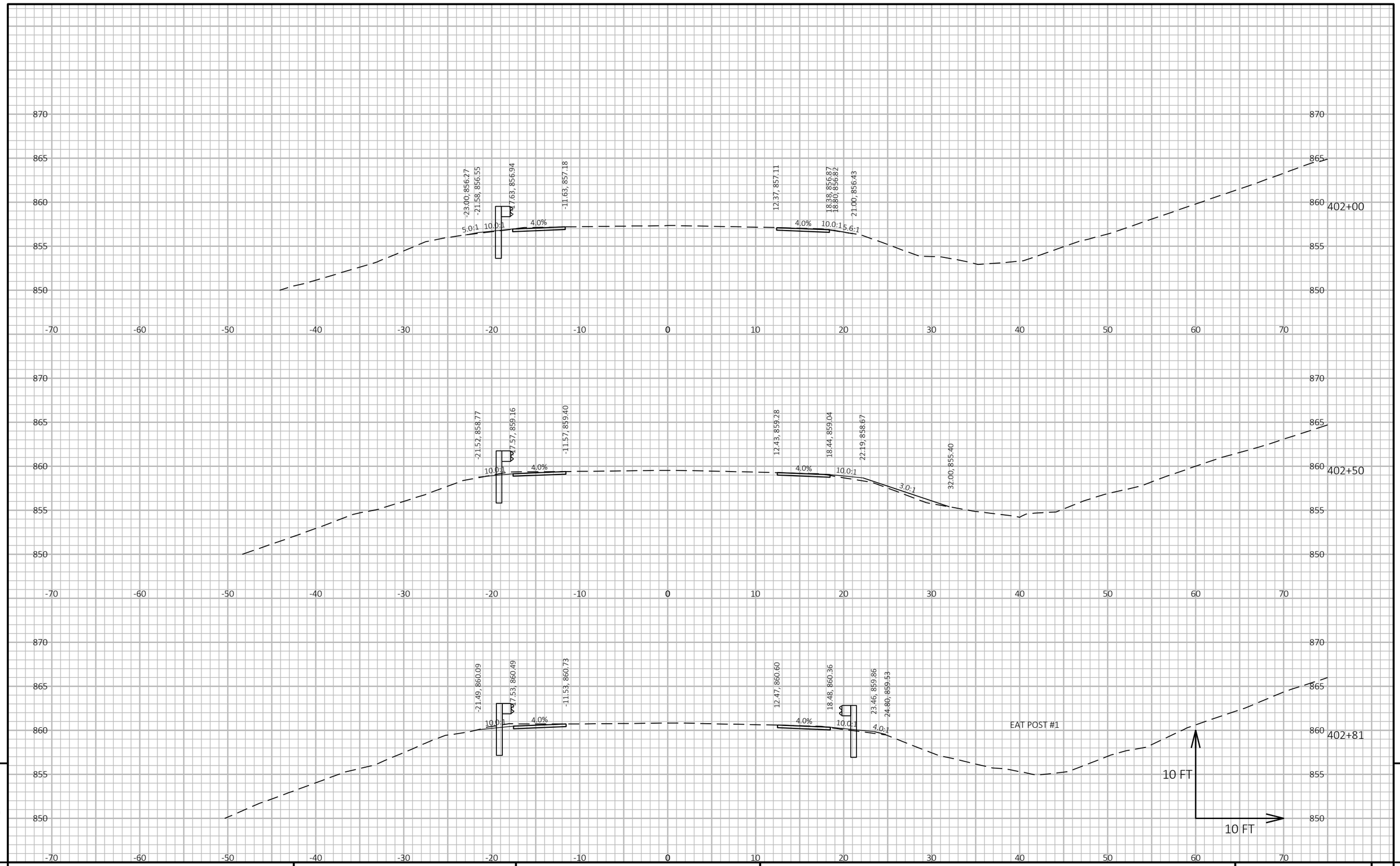
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 373	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090234-xs

PLOT DATE : 9/16/2022 2:06 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

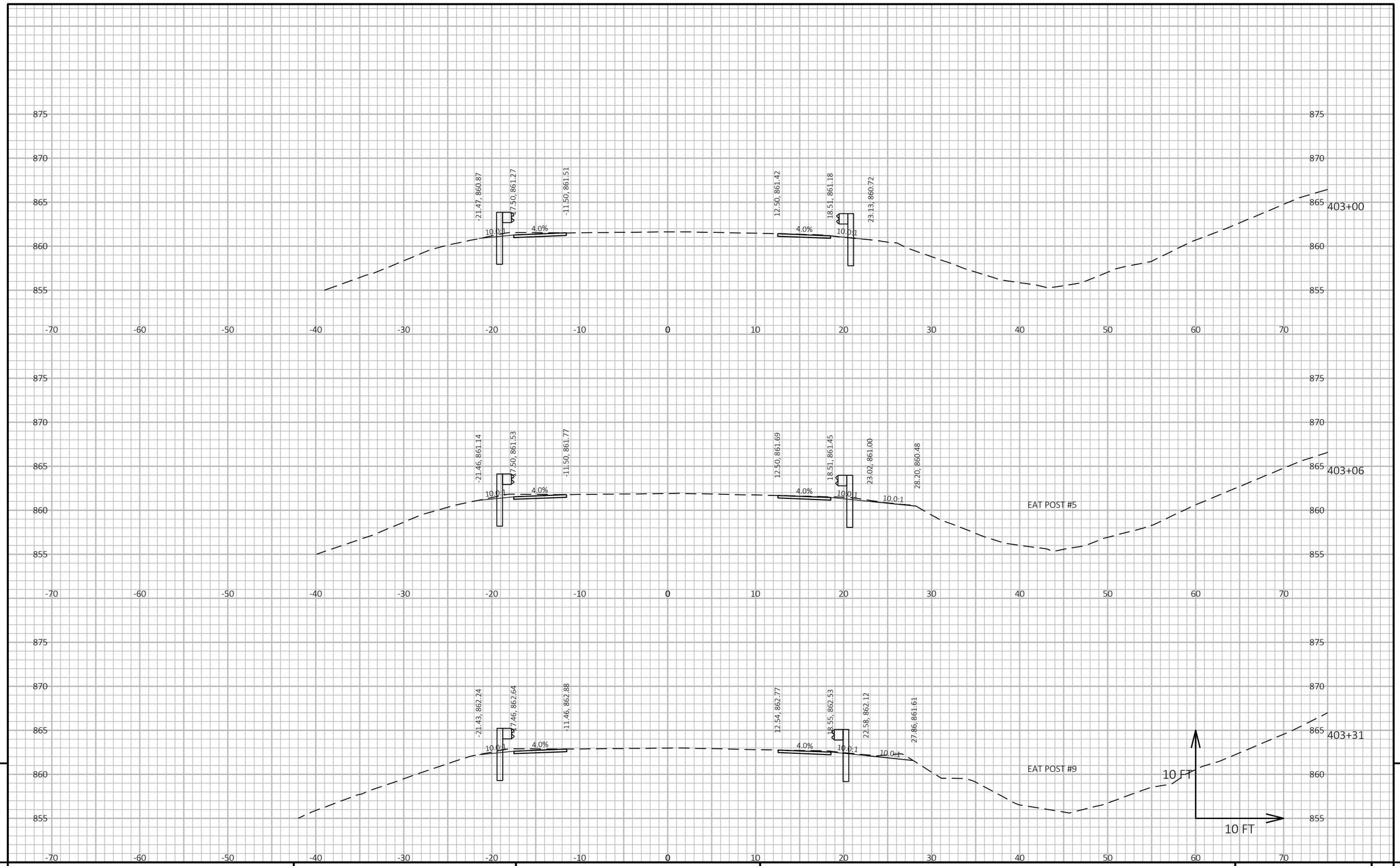


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 374	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090235-xs

PLOT DATE : 9/16/2022 2:06 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 375	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090236-xs

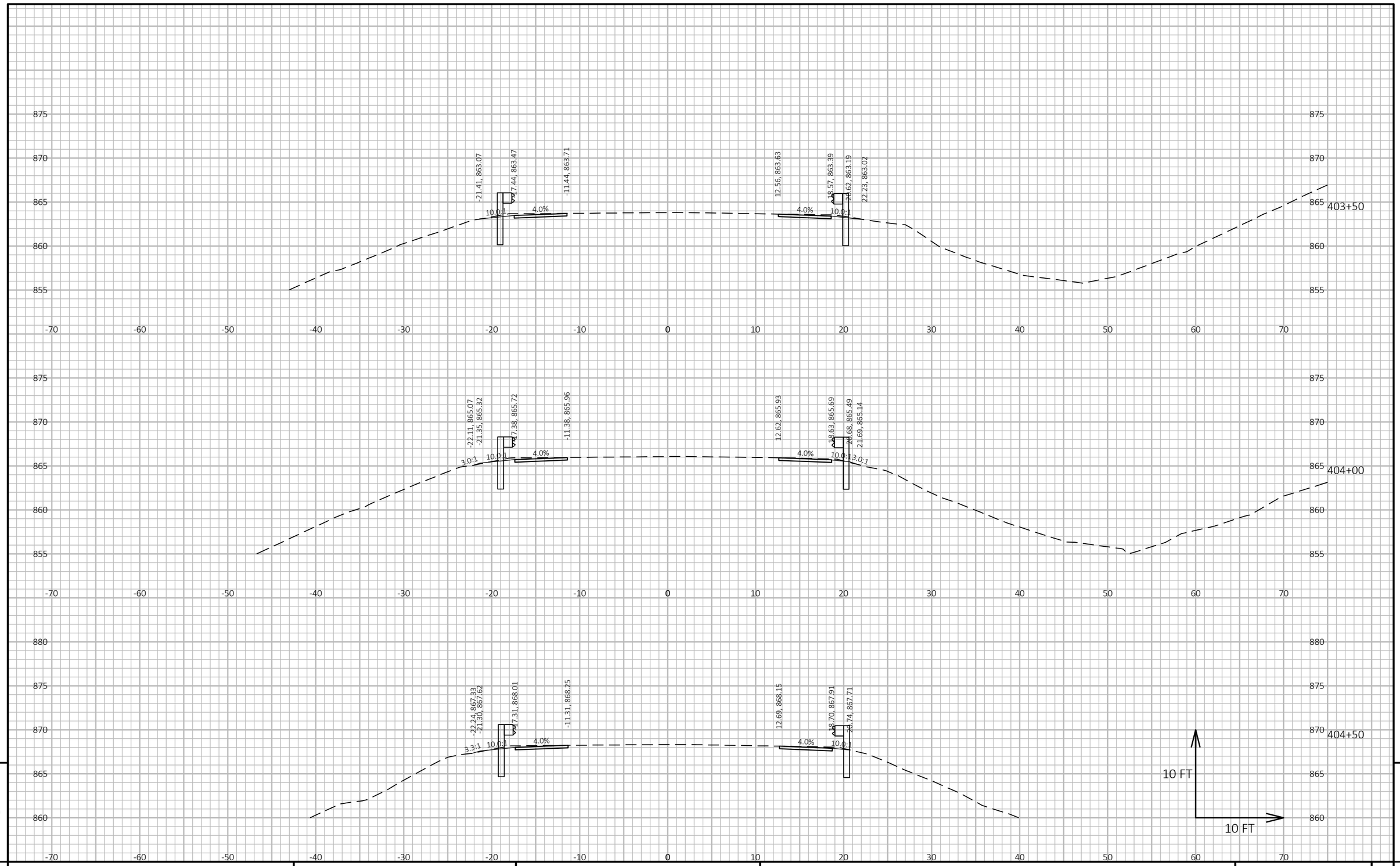
PLOT DATE : 9/16/2022 2:07 PM

PLOT BY : NOTSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

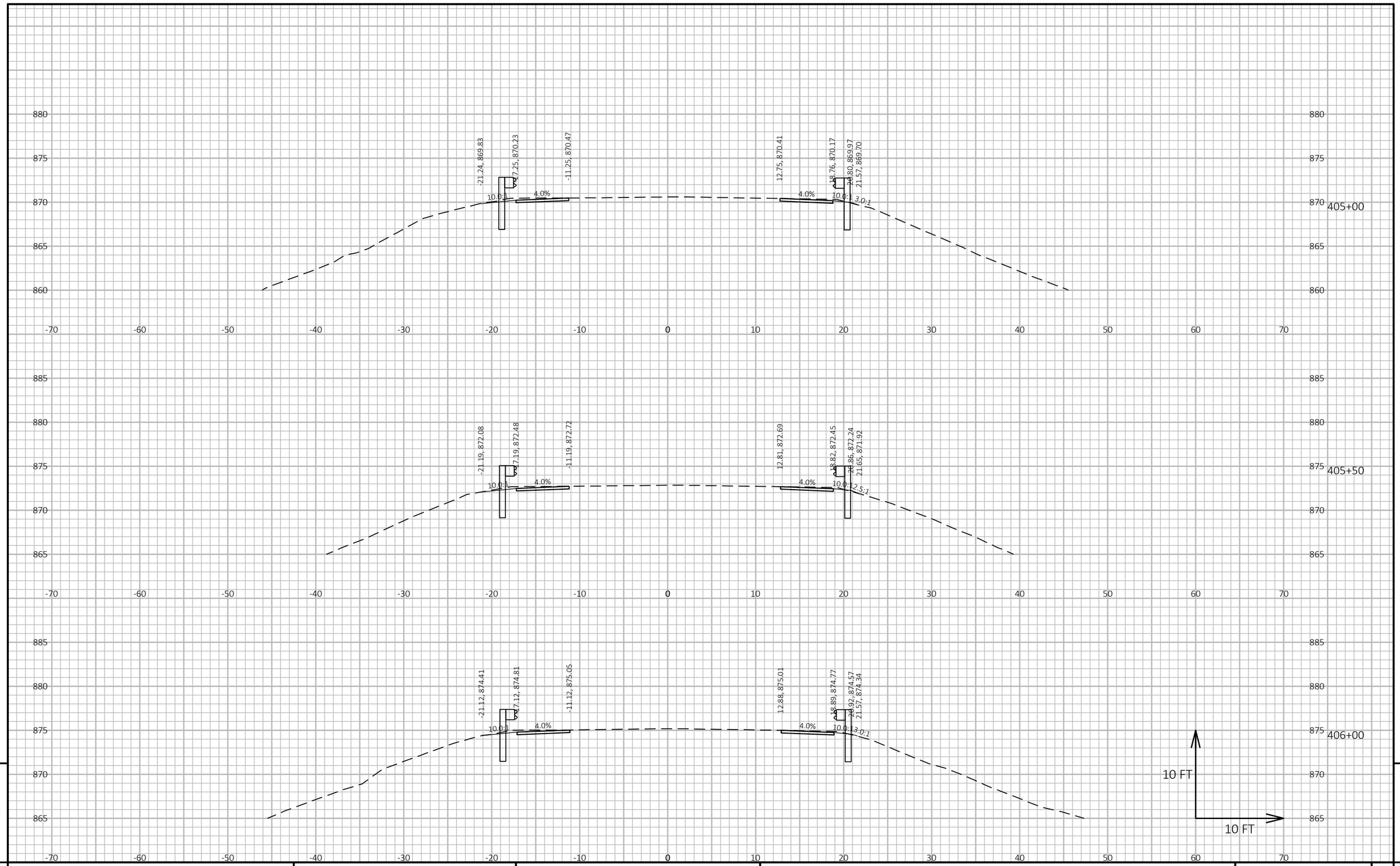
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 376	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090237-xs

PLOT DATE : 9/16/2022 2:07 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

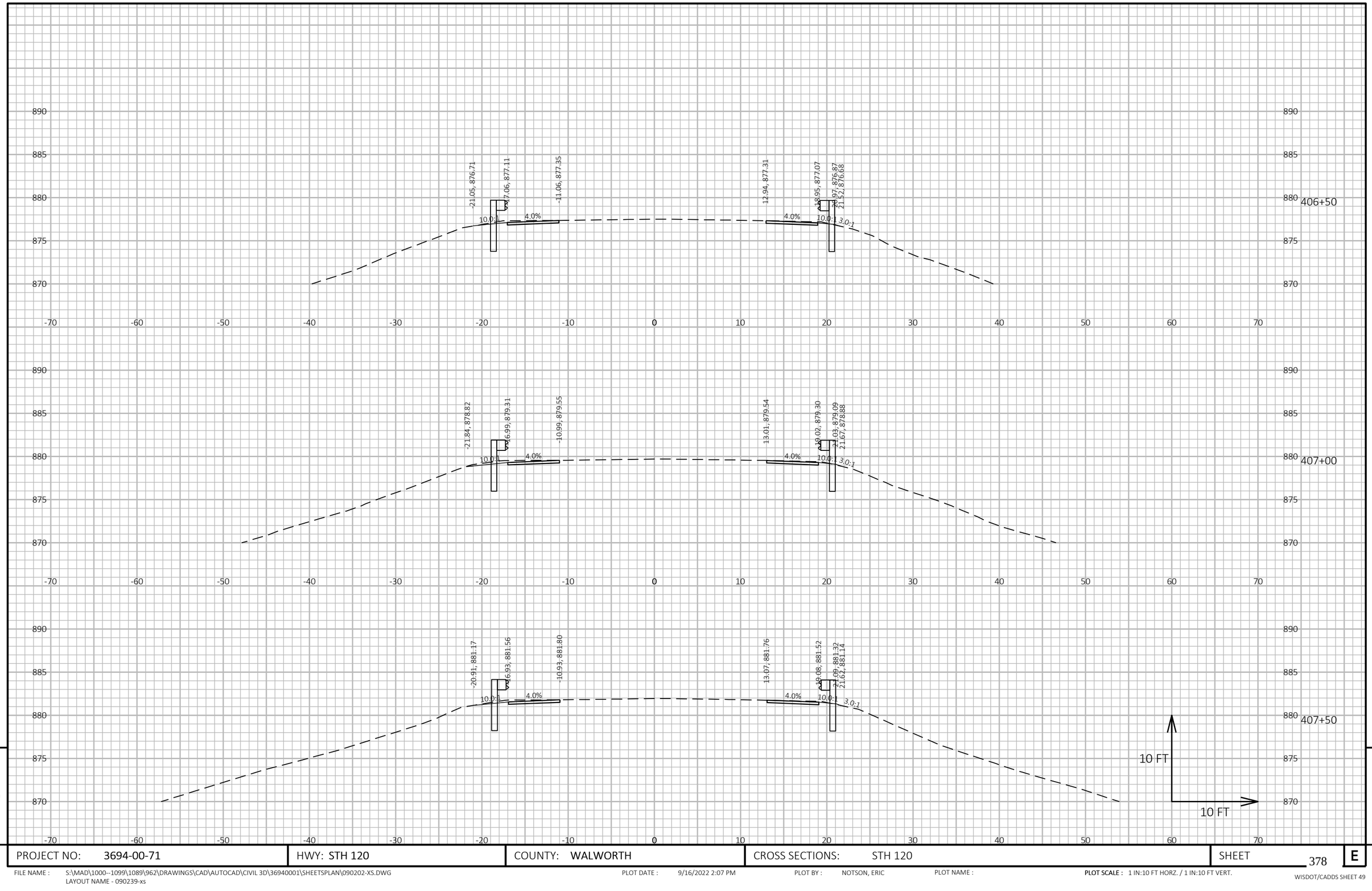


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 377	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090238-xs

PLOT DATE : 9/16/2022 2:07 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

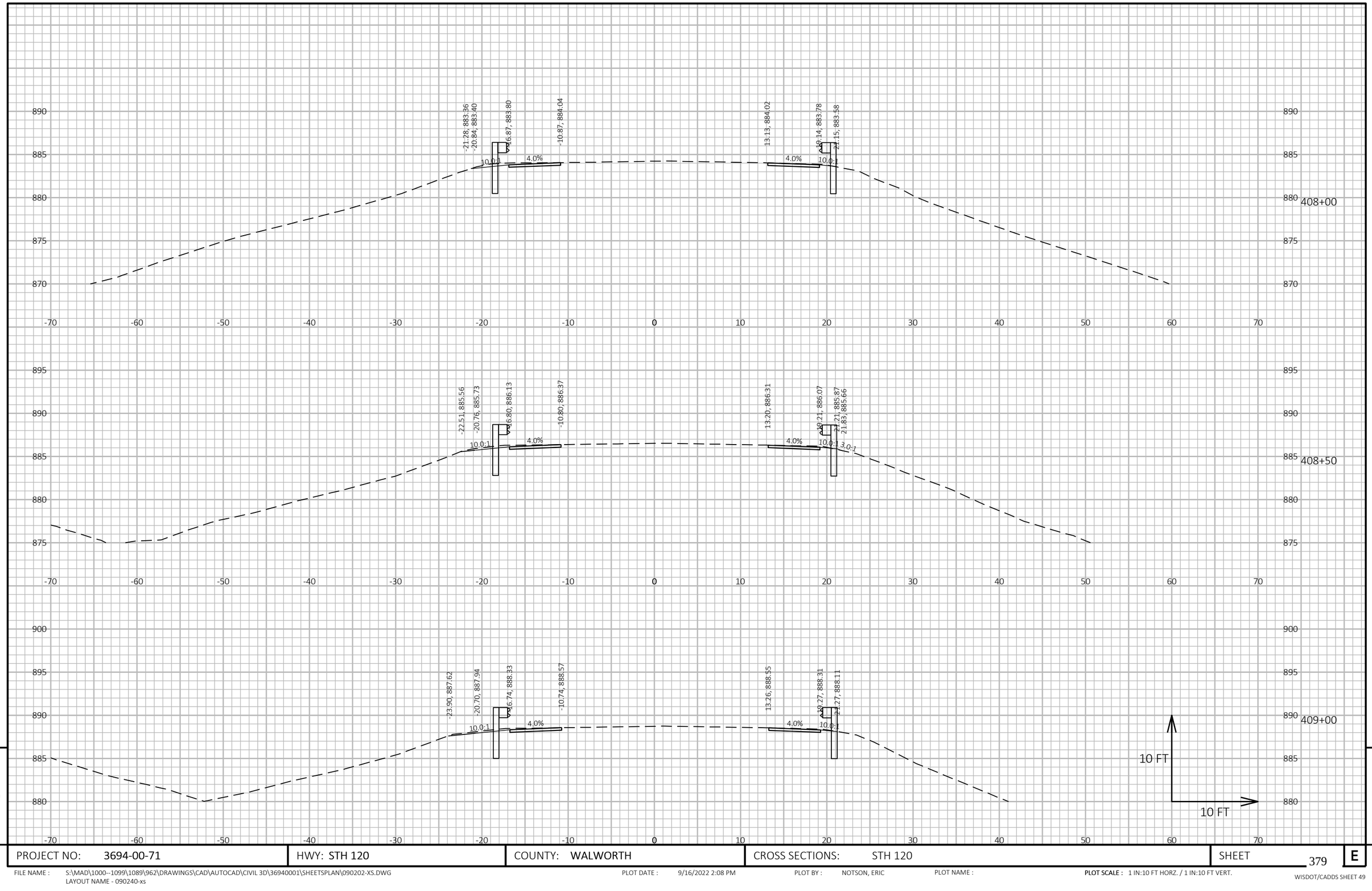


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 378	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090239-xs

PLOT DATE : 9/16/2022 2:07 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

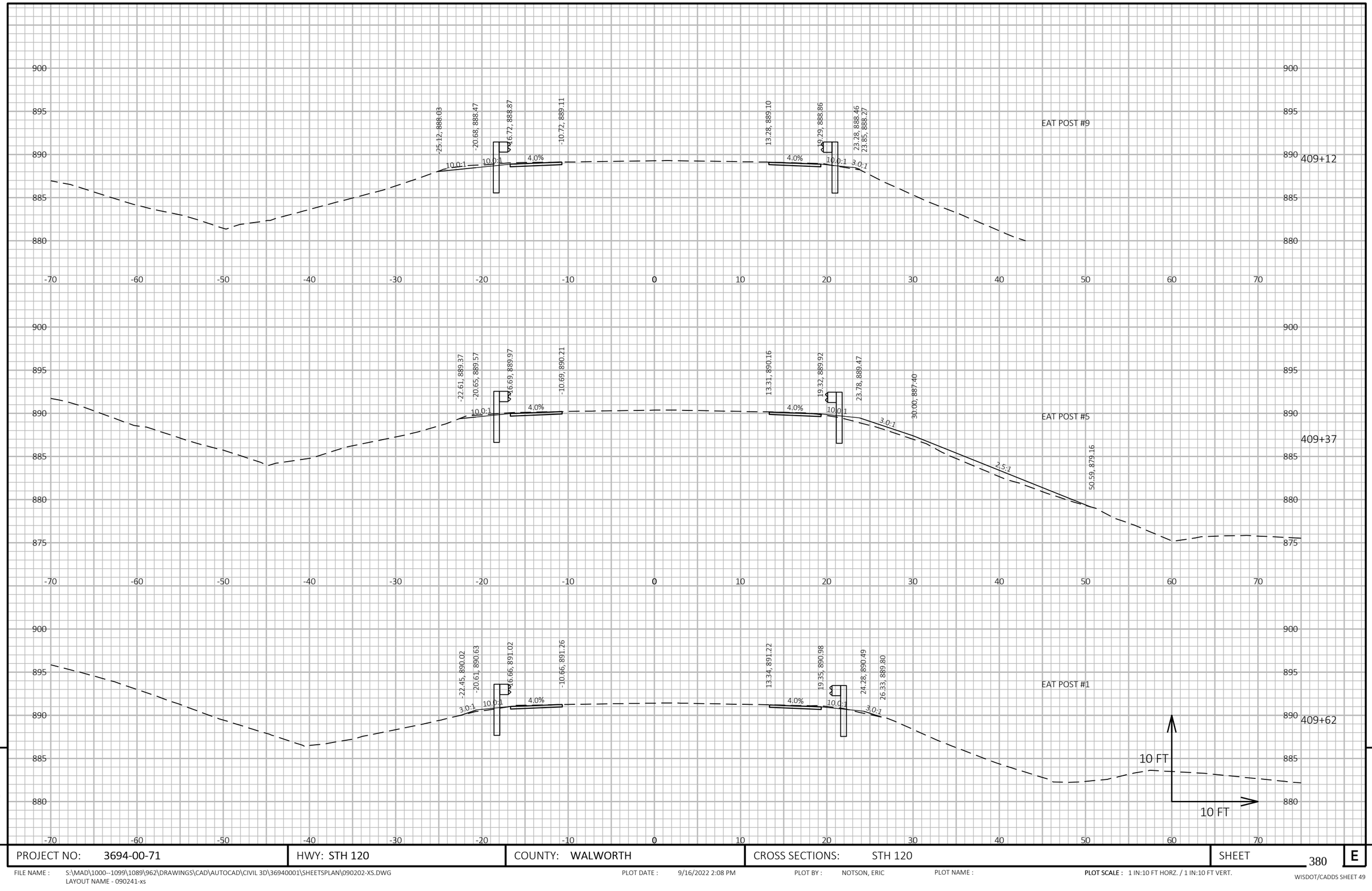


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 379	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090240-xs

PLOT DATE : 9/16/2022 2:08 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

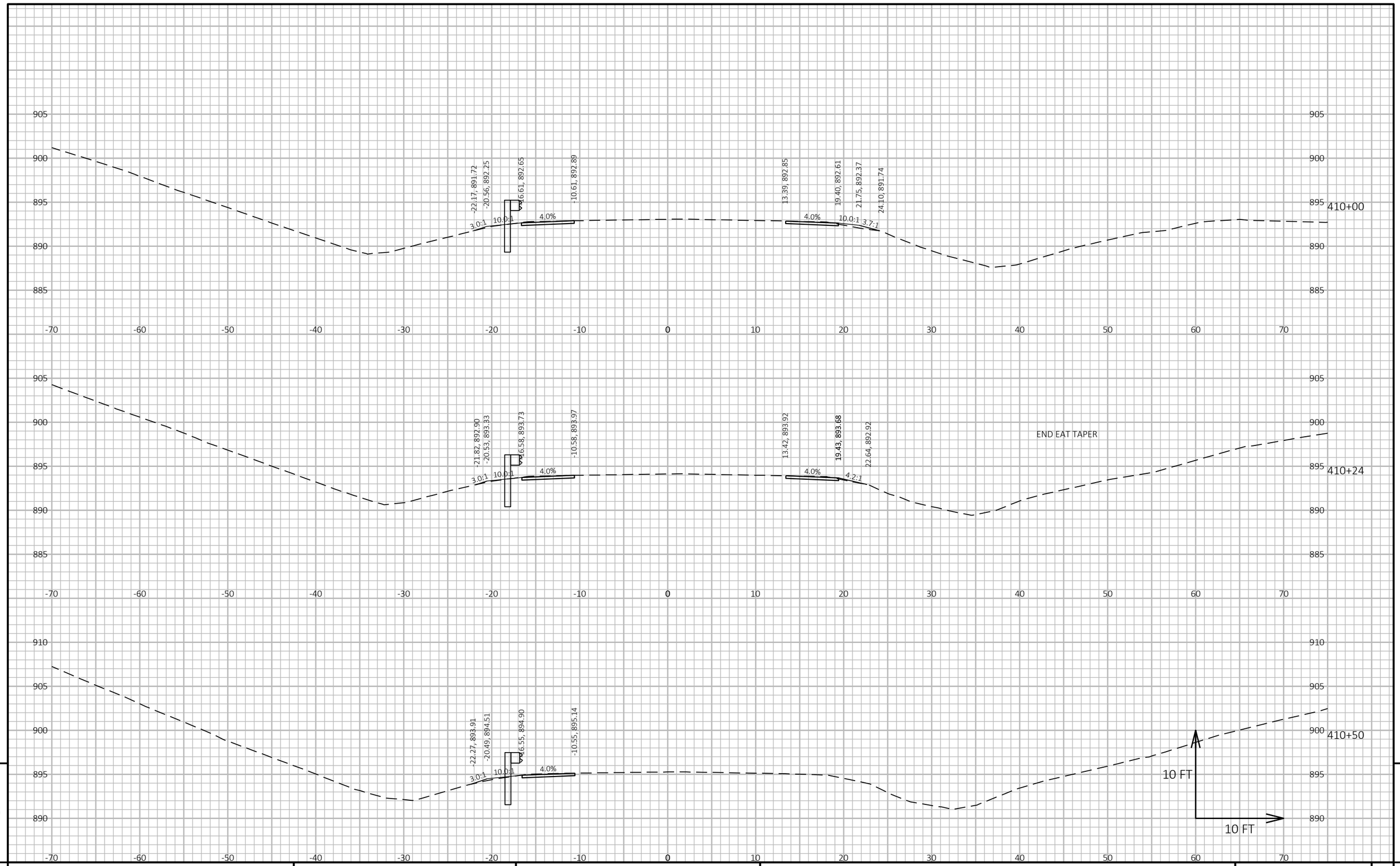


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 380	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090241-xs

PLOT DATE : 9/16/2022 2:08 PM PLOT BY : NOTSON, ERIC PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 381	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090242-xs

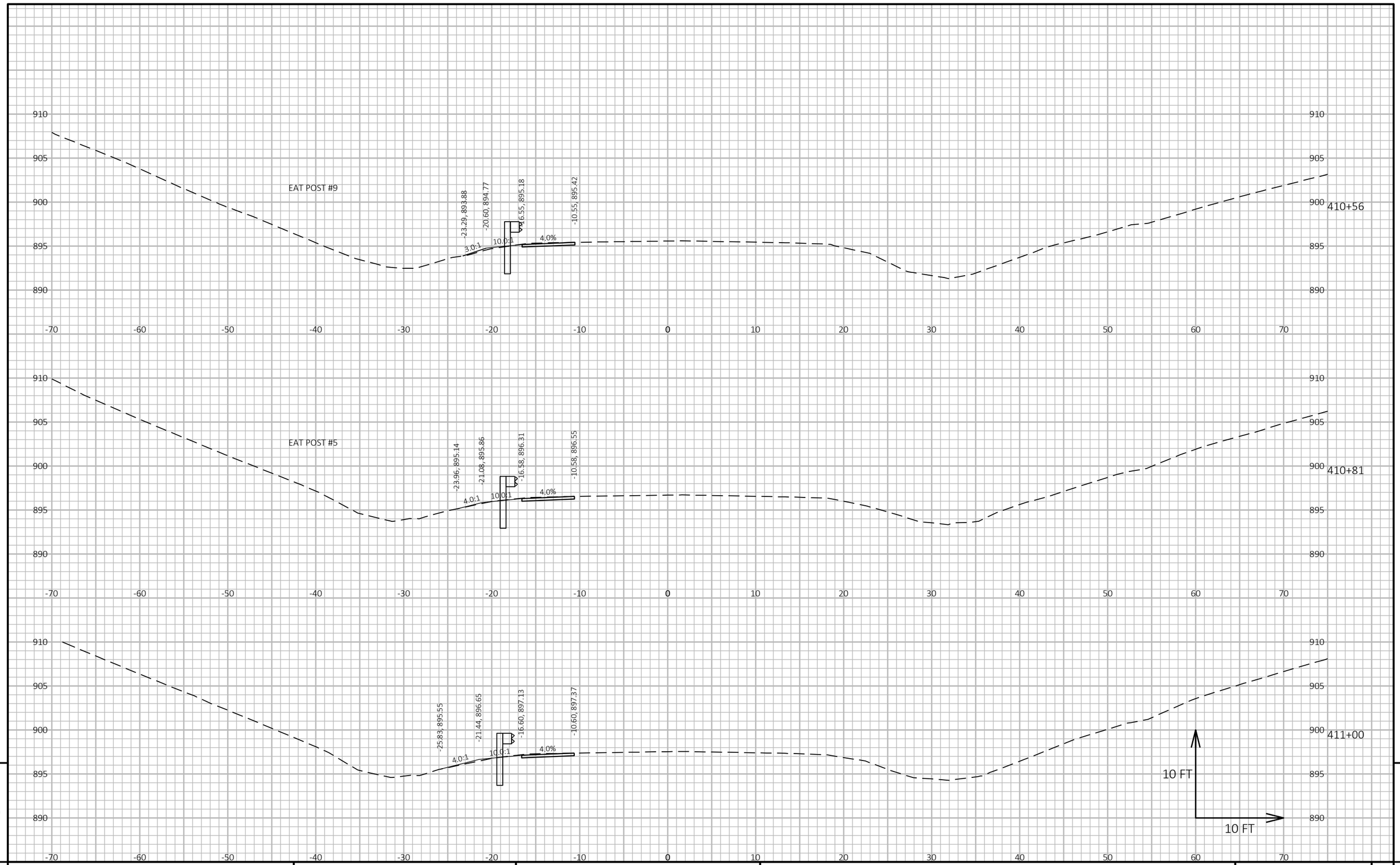
PLOT DATE : 9/16/2022 2:08 PM

PLOT BY : NOTSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 382	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090243-xs

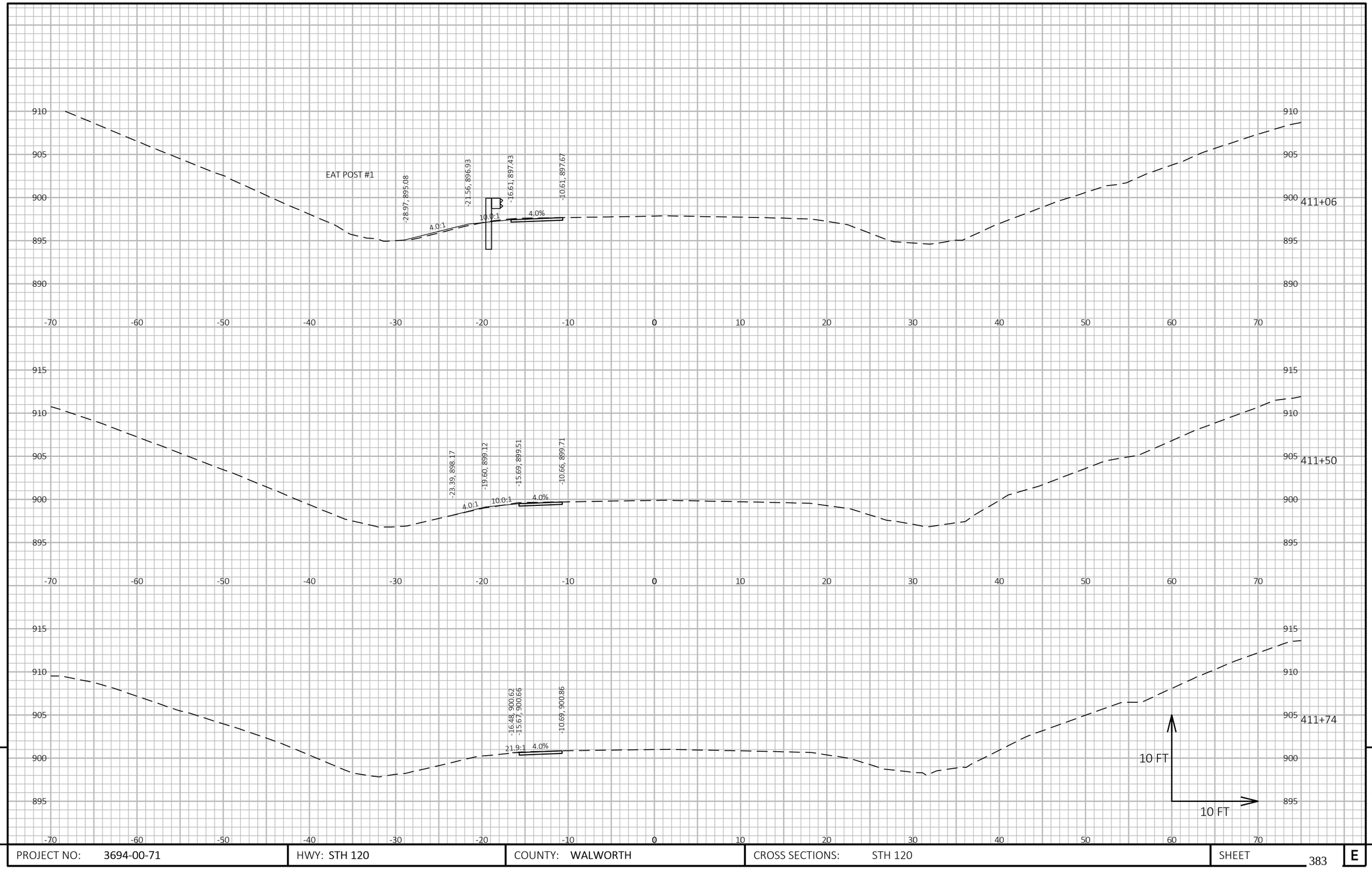
PLOT DATE : 9/16/2022 2:08 PM

PLOT BY : NOTSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

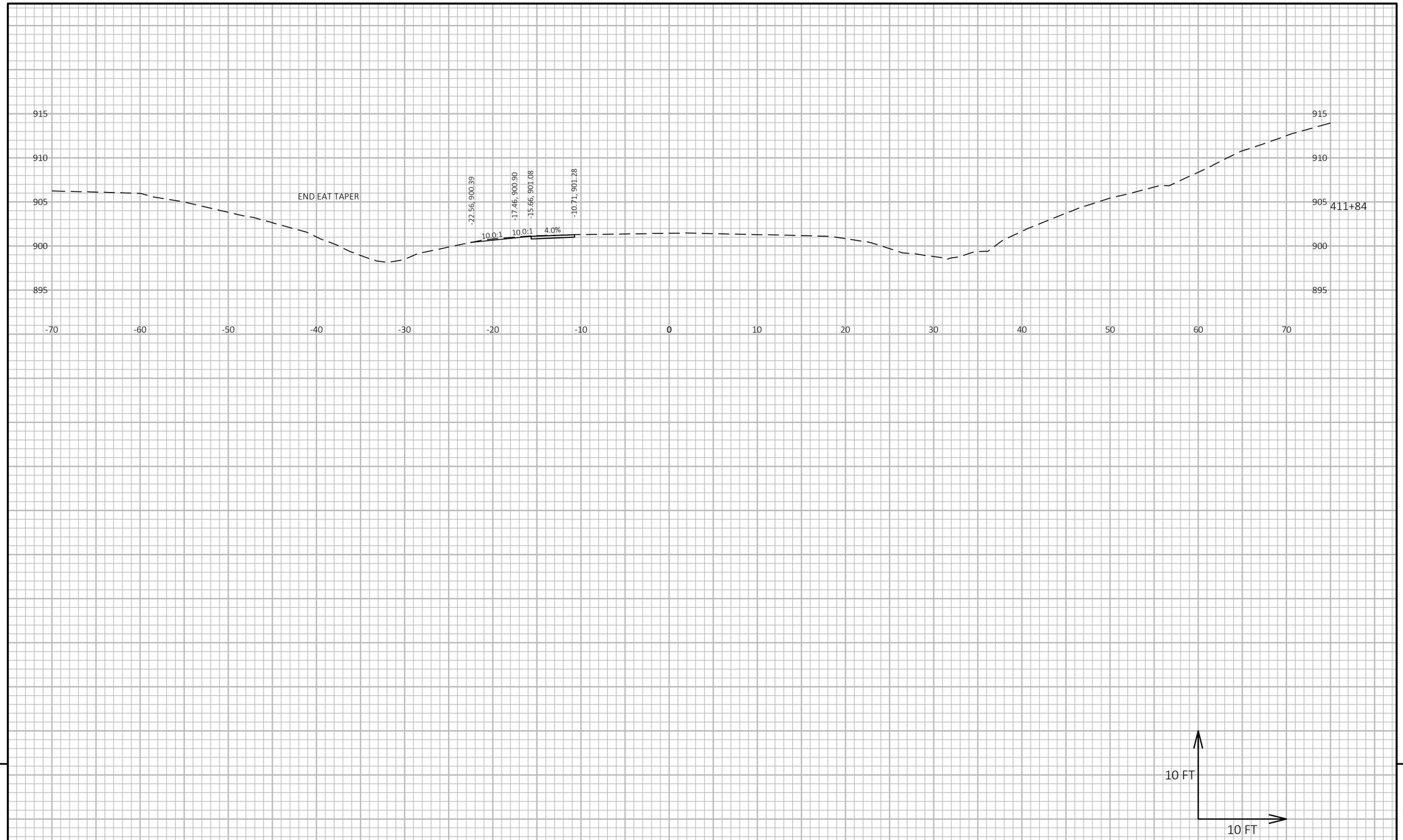


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 383	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090244-xs

PLOT DATE : 9/16/2022 2:08 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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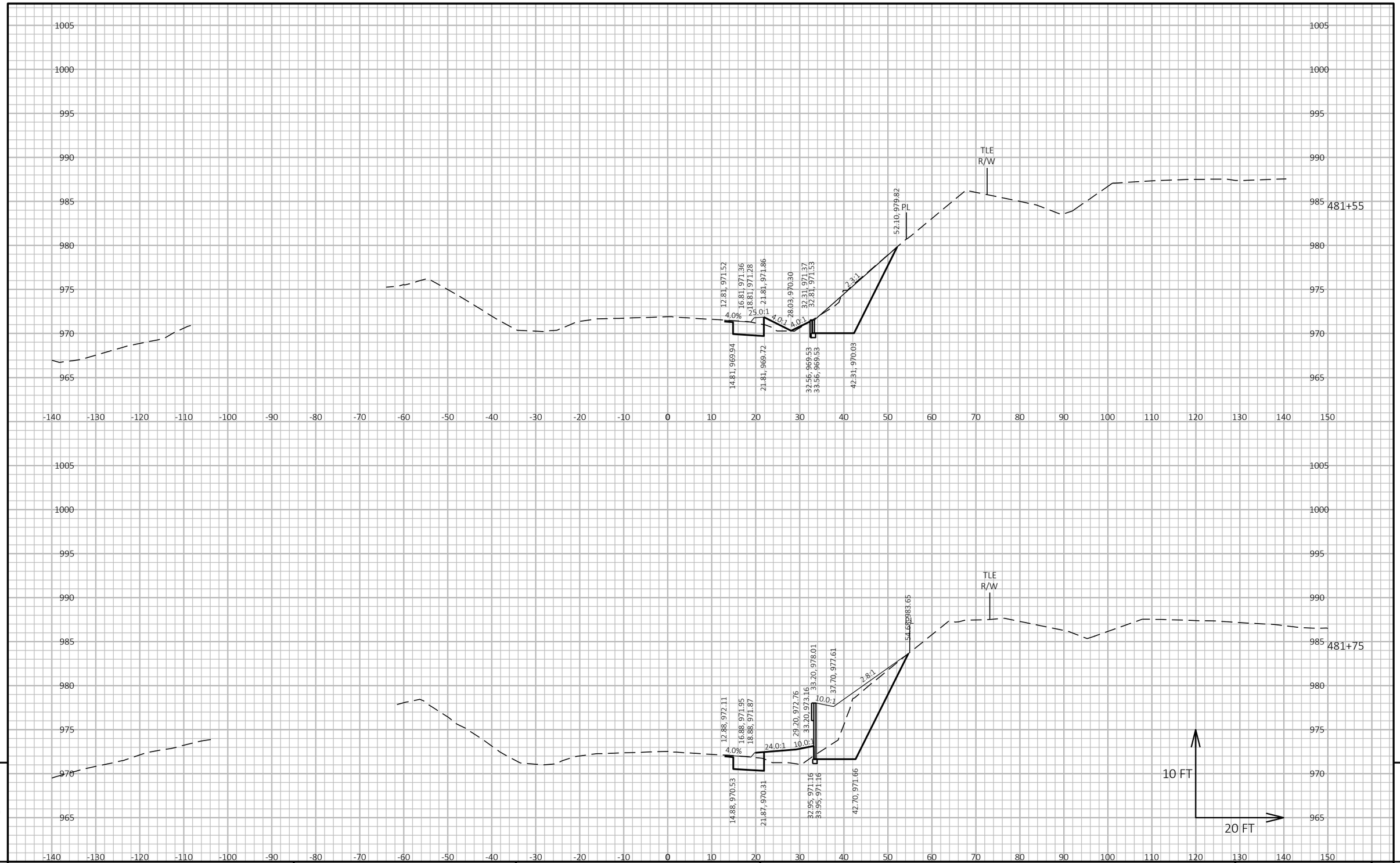
PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120	SHEET 384	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090245-xs

PLOT DATE : 9/16/2022 2:09 PM PLOT BY : NOTSON, ERIC PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

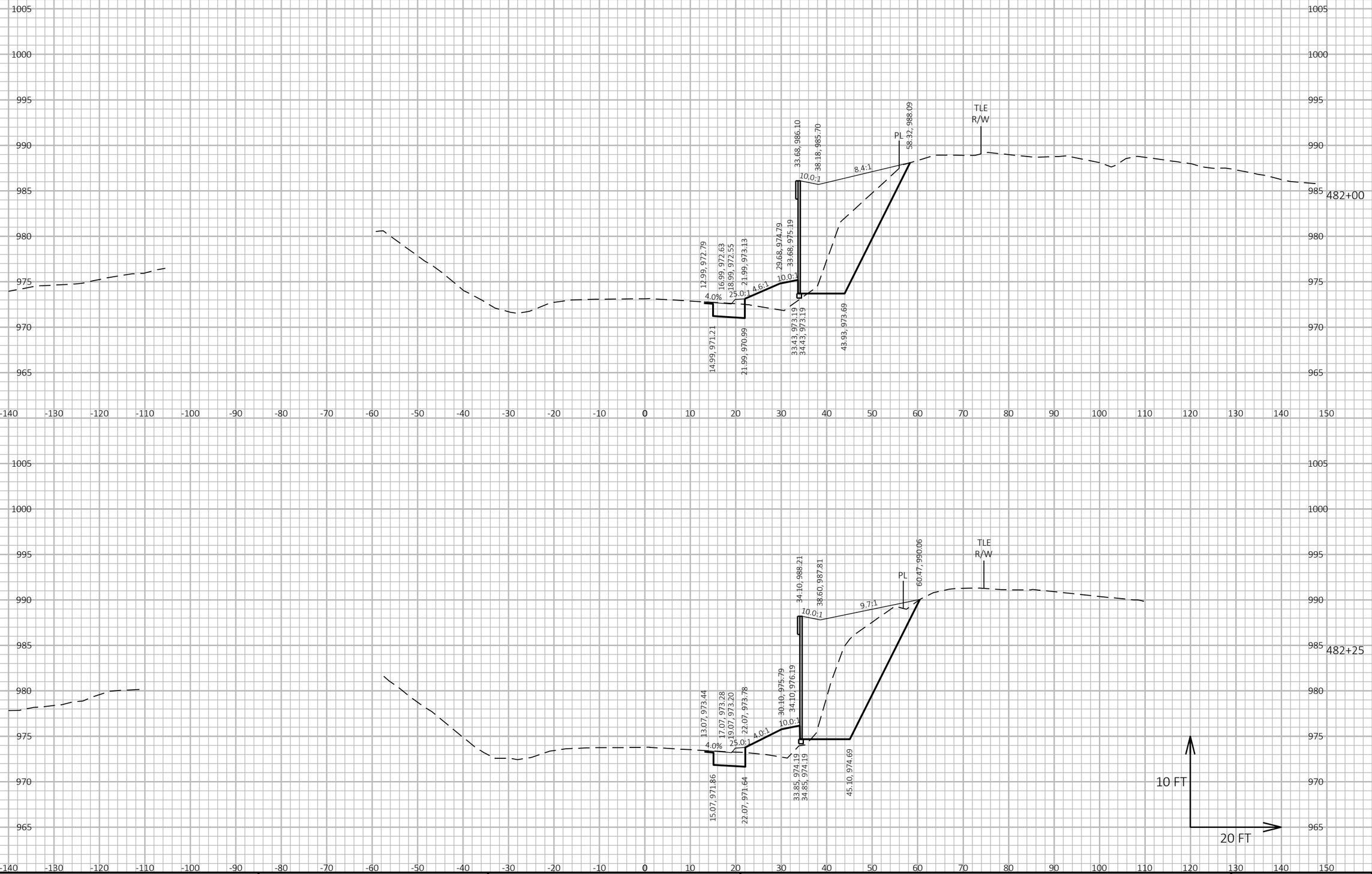


PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 385 E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

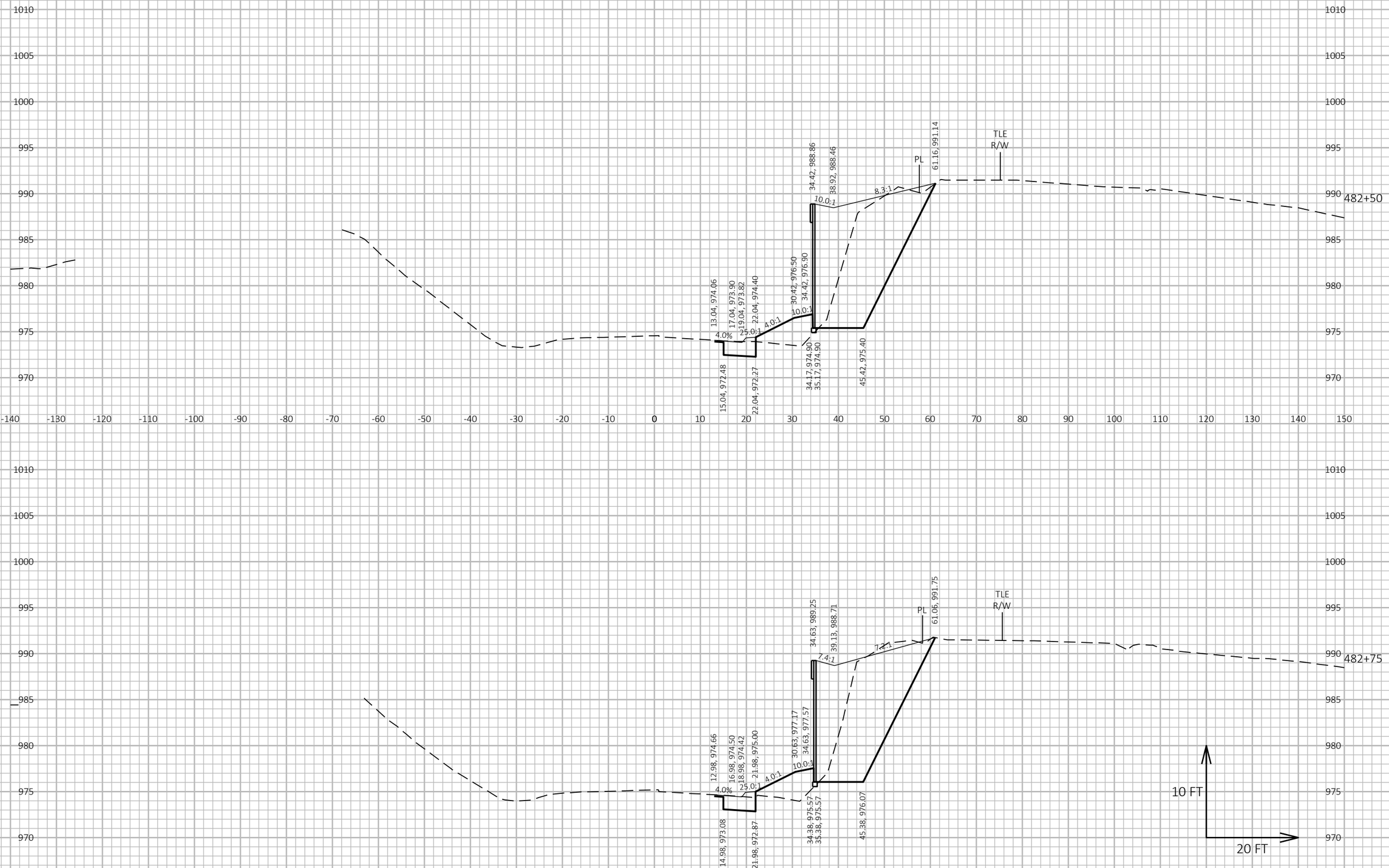
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 386	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



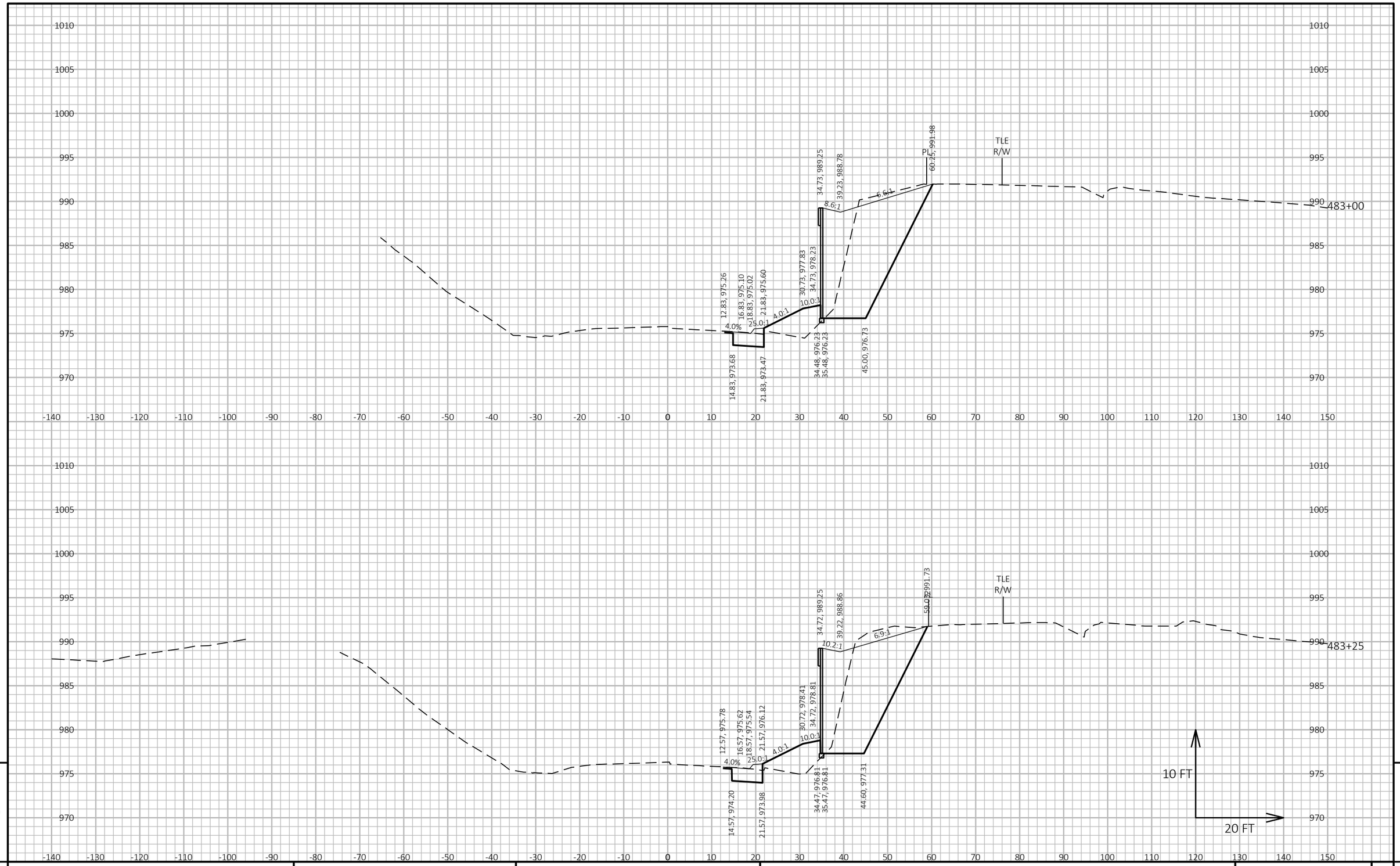
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 387	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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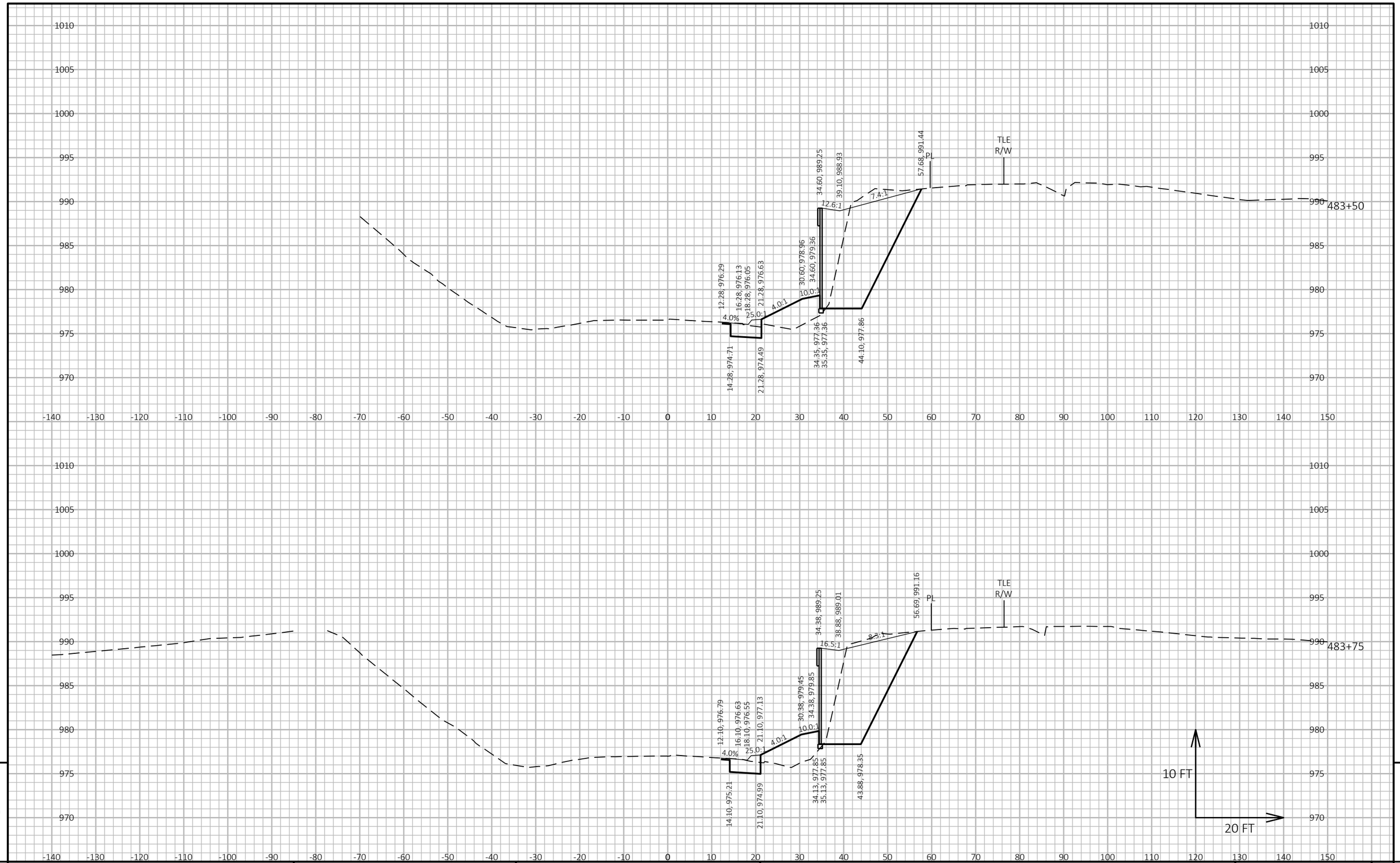
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 388	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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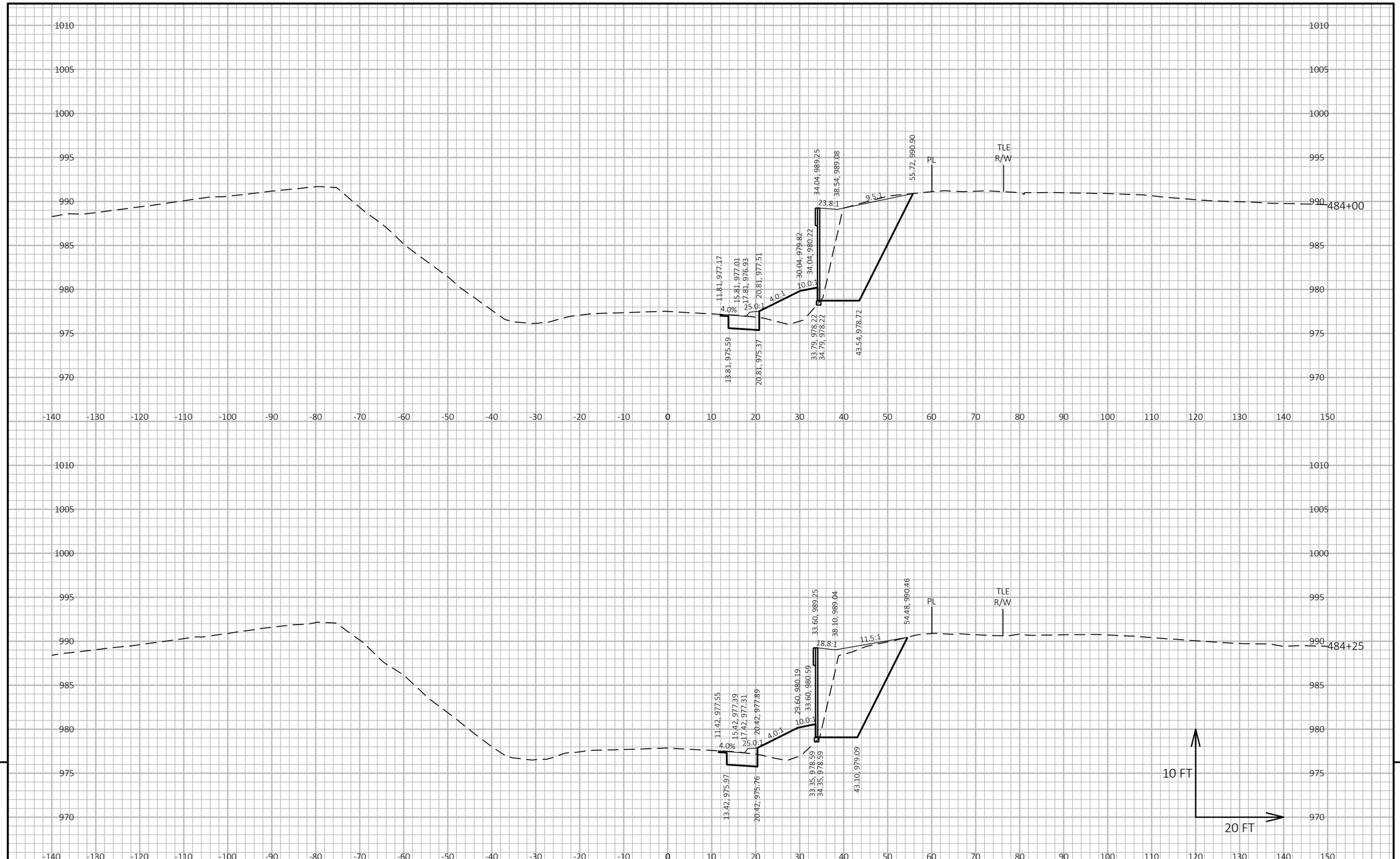
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 389	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

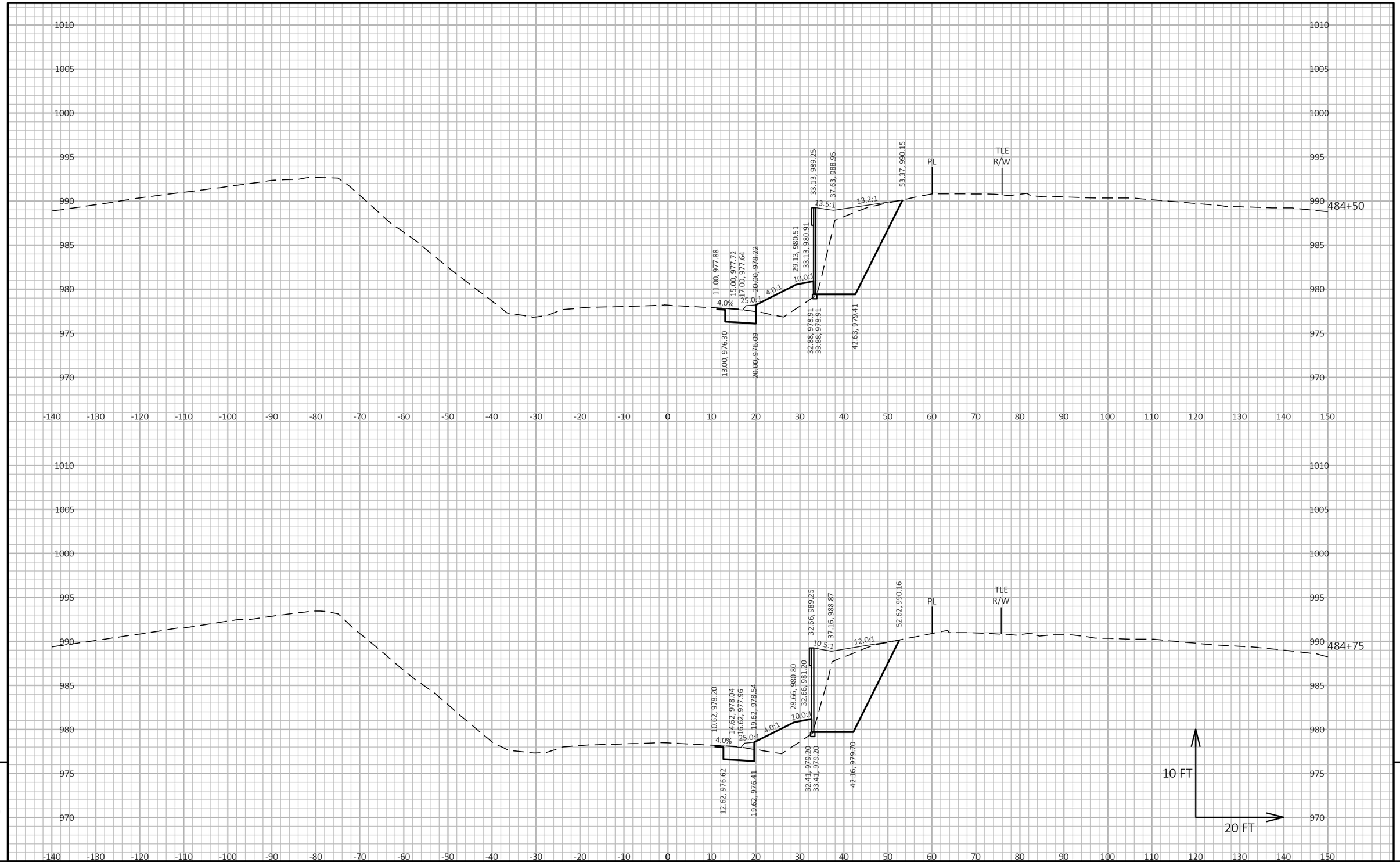


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FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090206-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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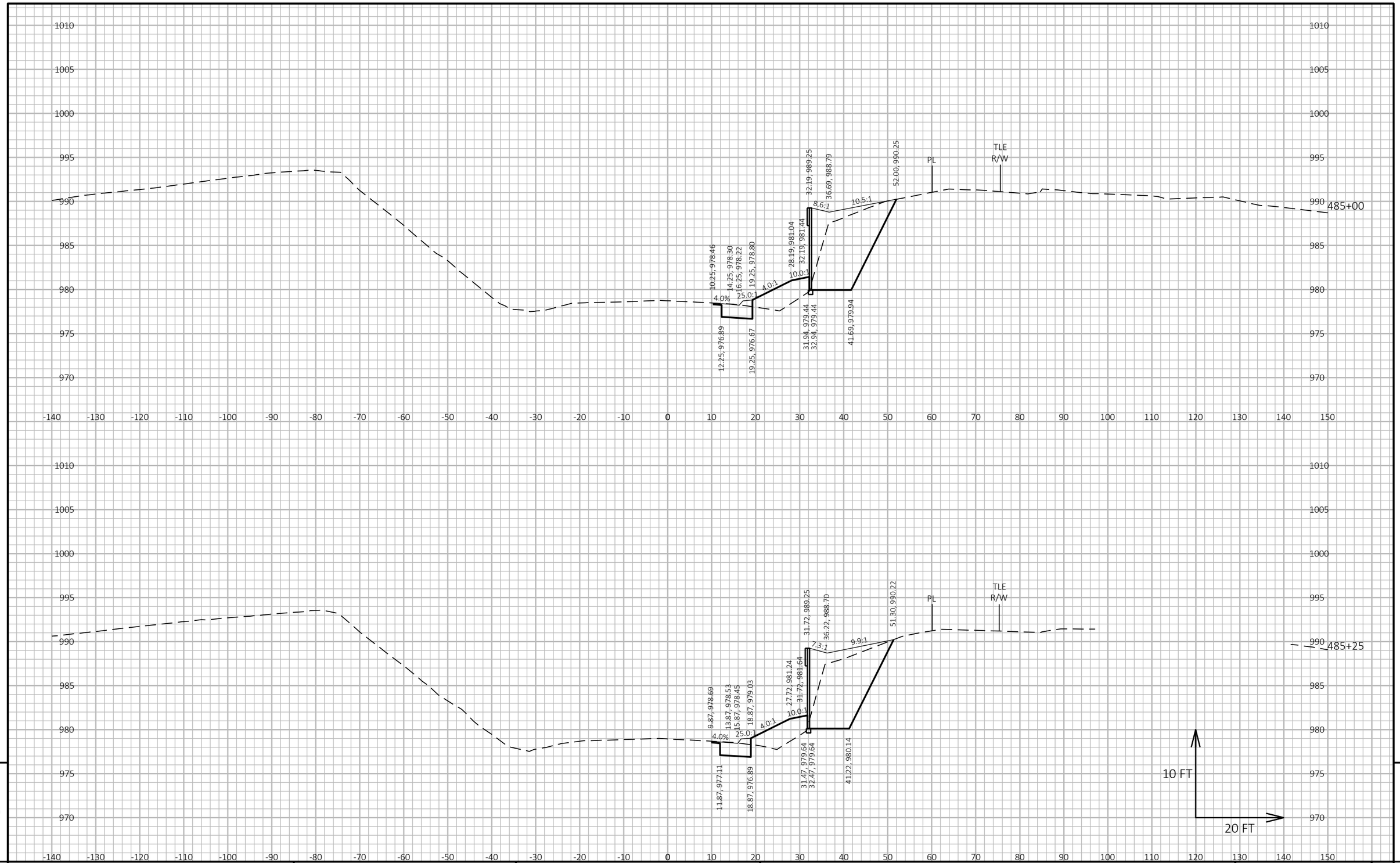
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 391	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090207-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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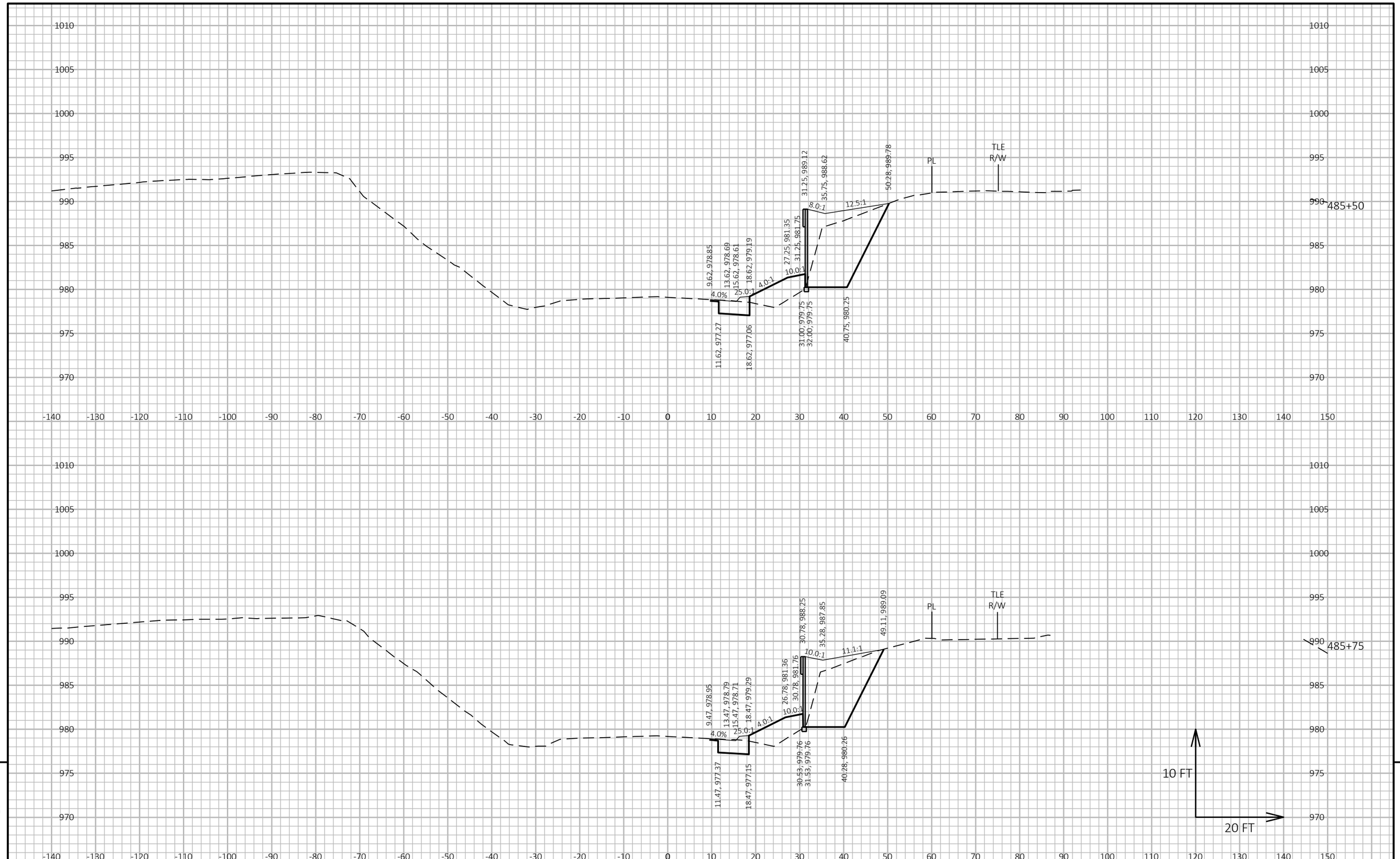
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 392	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090208-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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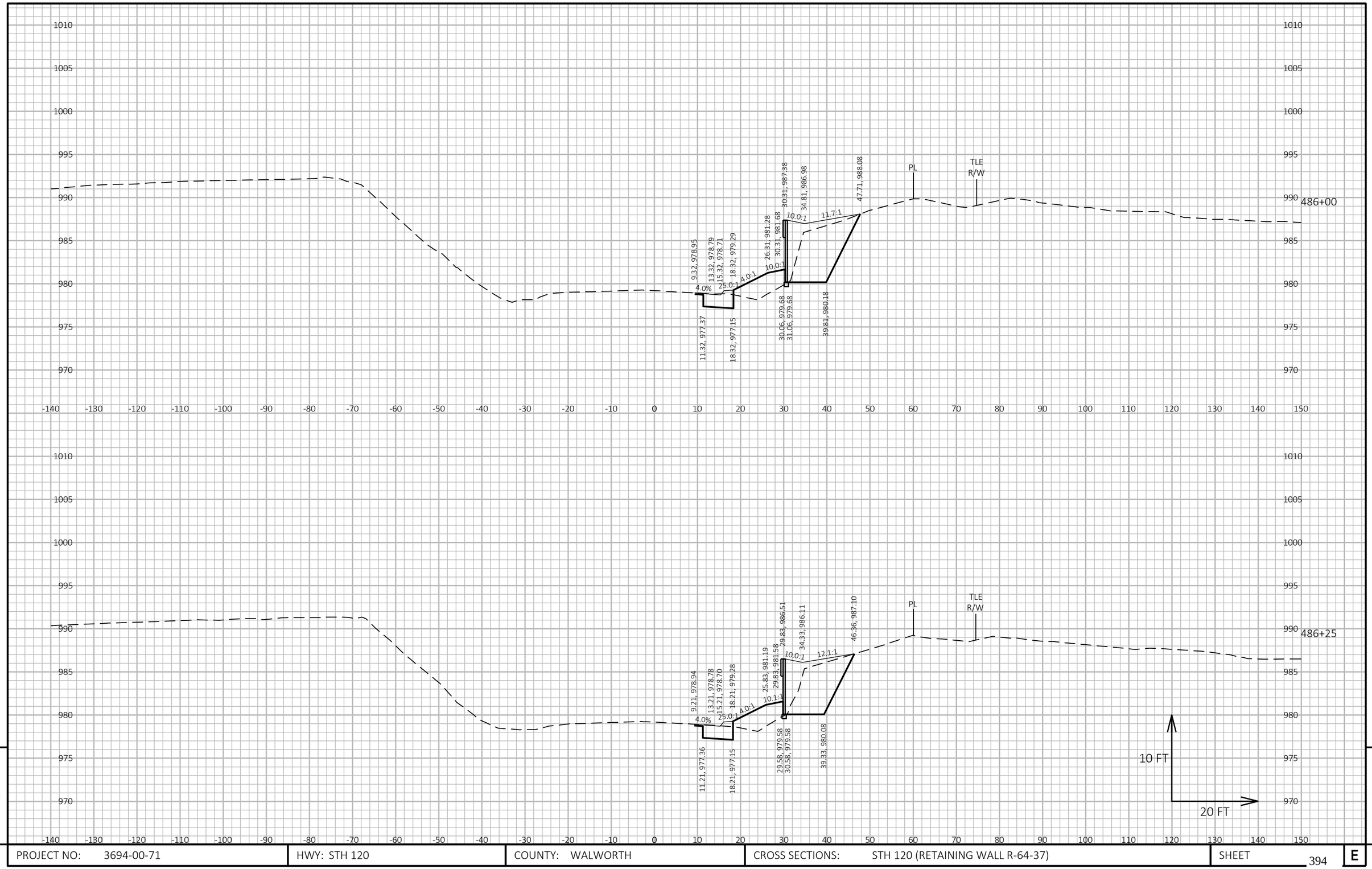
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 393	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090209-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

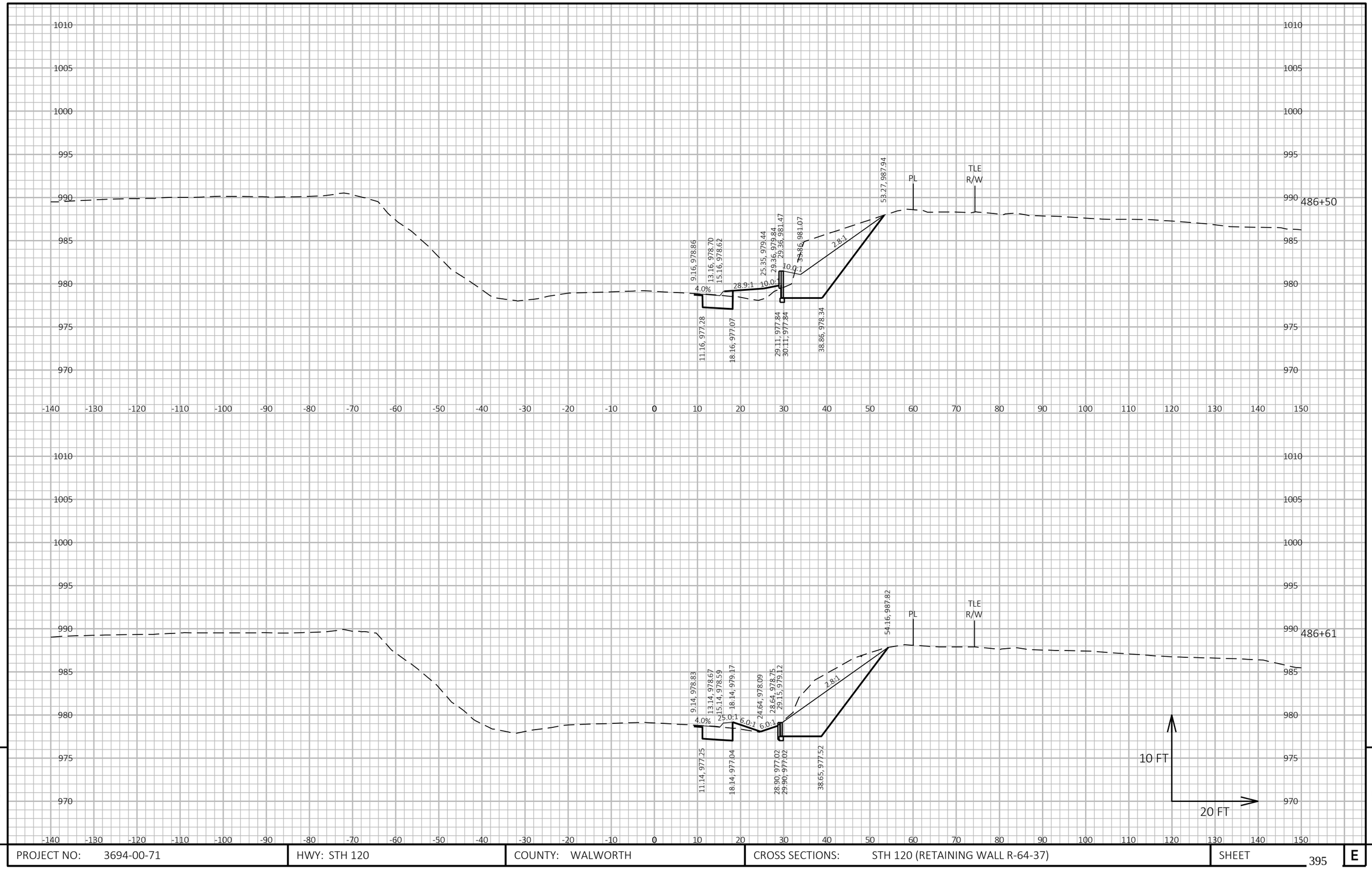
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PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 394	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090210-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 3694-00-71	HWY: STH 120	COUNTY: WALWORTH	CROSS SECTIONS: STH 120 (RETAINING WALL R-64-37)	SHEET 395	E

FILE NAME : S:\MAD\1000--1099\1089\962\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\36940001\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090211-xs

PLOT DATE : 12/20/2022 4:44 PM PLOT BY : NOTSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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