PROJECT ID: **2698-03-70**

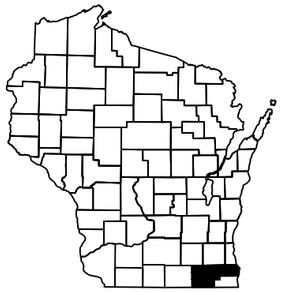
WITH: 2340-00-79

COUNTY: **WALWORTH/RACINE**

ORDER OF SHEETS

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

TOTAL SHEETS =



N

DESIGN DESIGNATION

A.A.D.T.	2017	=	12,900/3,300
A.A.D.T.	2042	=	17,200/4,600
D.H.V.		=	1,416
D.D.		=	59/41
T.		=	8.8%
DESIGN SPEED		=	35 MPH/40 MPH/50 MPH/55 MPH/60 MPH
ESALS		=	2,500,000

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

EAST TROY - RACINE

THOMAS DRIVE TO HONEY CREEK ROAD

STH 20

WALWORTH, RACINE COUNTIES

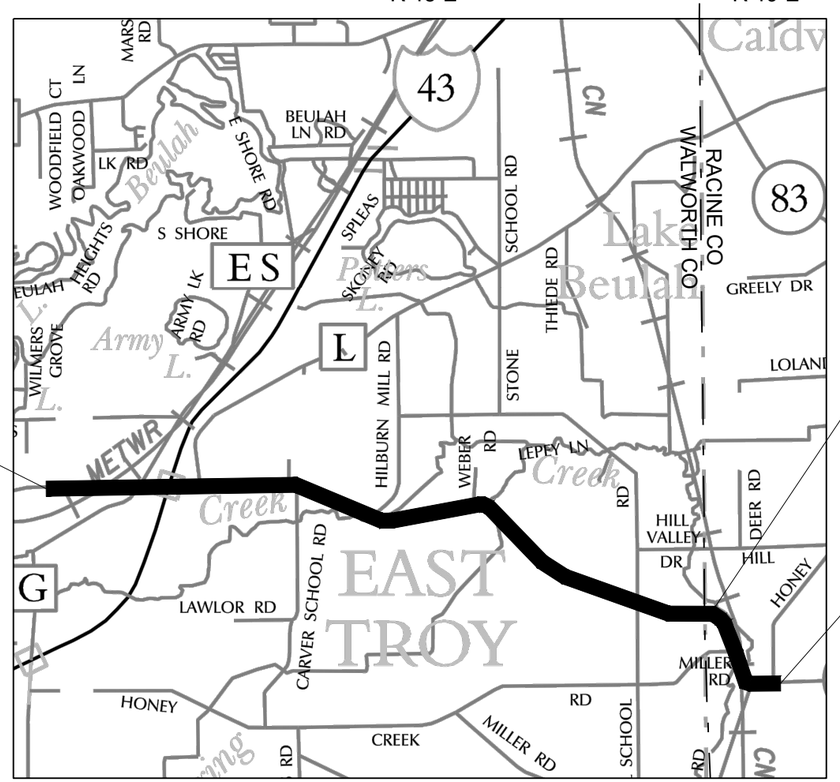
STATE PROJECT NUMBER
2698-03-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2698-03-70		

1078 PLAN SET
November 23, 2021

R-18-E R-19-E

T-4-N



BEGIN PROJECT
STA 884+75
Y= 409,269.094
X= 800,643.046

STRUCTURE R-51-82
STA 1154+80 TO STA 1159+50

END PROJECT
STA 1203+10

LAYOUT
SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 6.029 MILES

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	WISDOT
Project Manager	JULIE JENKS
Regional Examiner	WISDOT
Regional Supervisor	JANET CANNON

APPROVED FOR THE DEPARTMENT

DATE: _____ _____ (Signature)

PRE_1

E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\010101_TI.DWG PLOT DATE : 8/30/2021 10:46 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

UTILITY CONTACTS

AT&T LEGACY - COMMUNICATION LINE
VANESSA ROSS
555 E COOK STREET
SPRINGFIELD, IL 62703
PHONE: (217) 814-2314
EMAIL: VF2021@ATT.COM

CENTURYLINK - COMMUNICATION LINE
KEVIN ZICKERT
224 INDUSTRIAL DR
NORTH PRAIRIE, WI 53153
PHONE: (262) 392-5200
EMAIL: RELOCATIONS@LUMEN.COM

PAETEC COMMUNICATIONS, LLC - COMMUNICATION LINE
LORI KETTER
314 N. DANZ AVENUE
GREEN BAY, WI 54302-3526
PHONE: (414) 274-9215
EMAIL: LORI.KETTER@WIDSTREAM.COM

SPECTRUM - COMMUNICATION LINE
BEAU ABUYA
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
PHONE: (414) 908-1343
WIS.ENGINEERING@CHARTER.COM

TDS METROCOM LLC - COMMUNICATION LINE
MATTHEW SCHULTE
16924 W VICTOR RD
NEW BERLIN, WI 53151
PHONE: (262) 754-3063
CELL: (262) 409-1177
EMAIL: MATT.SCHULTE@TDSTELECOM.COM

TDS TELECOM - COMMUNICATION LINE
DAVE HUWE
525 JUCNTION ROAD
MADISON, WI 53717
PHONE: (608) 664-4312
EMAIL: DAVE.HUWE@TDSTELECOM.COM

WE ENERGIES - ELECTRIC
WE ENERGIES UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 221-2738
EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

WE ENERGIES - GAS/PETROLEUM
WE ENERGIES UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 221-2738
EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

NOT A UTILITY - FOR INFORMATION ONLY

TOWN OF EAST TROY DPW - SEWER
JO ANN WARGIN
N9330 STEWART SCHOOL RD
P.O. BOX 872
EAST TROY, WI 53120
PHONE: (262) 642-5386
EMAIL: ?

TOWN OF EAST TROY DPW - WATER
JO ANN WARGIN
N9330 STEWART SCHOOL RD
P.O. BOX 872
EAST TROY, WI 53120
PHONE: (262) 642-5386
EMAIL: ?

VILLAGE OF EAST TROY DPW - SEWER
JASON EQUITZ
2015 ENERGY DR
EAST TROY, WI 53120
PHONE: (262) 642-6255
EMAIL: JEQUITZ@EASTTROYWI.GOV

VILLAGE OF EAST TROY DPW - WATER
JASON EQUITZ
2015 ENERGY DR
EAST TROY, WI 53120
PHONE: (262) 642-6255
EMAIL: JEQUITZ@EASTTROYWI.GOV

EAST TROY SANITARY DISTRICT #3
PO BOX 872
EAST TROY, WI 53120-0872
PHONE: (262) 642-5386

WALWORTH COUNTY - ELECTRICITY
RICHARD HOUGH
W4097 COUNTY ROAD NN
ELKHORN, WI 53121
PHONE: (262) 741-3104
EMAIL: RHOUGH@C.WALWORTH.WI.US

WALWORTH COUNTY - ROAD FACILITY
RICHARD HOUGH
W4097 COUNTY ROAD NN
ELKHORN, WI 53121
PHONE: (262) 741-3104
EMAIL: RHOUGH@C.WALWORTH.WI.US

WISDOT CONTACTS

PROJECT MANAGER
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141 NW BARSTOW ST
PO BOX 798
WAUKESHA, WI 53187-0798
PHONE: (262) 548-6462
EMAIL: JULIE.JENKS@DOT.WI.GOV

WI DNR LIASON
CRAIG WEBSTER
141 NW BARSTOW ST
ROOM 180
WAUKESHA, WI 53188
PHONE: (262) 574-2141
EMAIL: CRAIG. WEBSTER@WISCONSIN.GOV

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

WISDOT - SIGNALS
DERRIN WOLFORD
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 521-4409
EMAIL: DERRIN.WOLFORD@DOT.WI.GOV

WISDOT - RAMP GATES
MARQUIS YOUNG
433 W ST. PAUL AVE
MILWAUKEE, WI 53203
PHONE: (414) 227-2157
EMAIL: MARQUIS.YOUND@DOT.WI.GOV

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

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB AND GUTTER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES AND PIPES AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS BEFORE ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS BEFORE INSTALLATION OF THE PROPOSED STORM SEWER.

WHEN DEFINING THE PAVEMENT STRUCTURE, THE BOTTOM OF THE BASE AGGREGATE DENSE IS CONSIDERED THE SUBGRADE LINE. THE BREAKER RUN LAYER IS A SUBGRADE IMPROVEMENT.

VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS.

CONSTRUCT PAVEMENT CONSISTENT WITH THE PLAN TYPICAL SECTIONS. LOCATE LONGITUDINAL JOINTS IN ASPHALT PAVEMENT OUTSIDE OF DRIVING, TURNING, BIKE, OR PARKING LANES UNLESS DIRECTED OTHERWISE BY THE ENGINEER. OBTAIN THE ENGINEERS APPROVAL FOR THE LOCATIONS OF JOINTS IN ASPHALT PAVEMENT PRIOR TO PAVING OPERATIONS.

SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

CONSTRUCT INSIDE EDGE OF SIDEWALK 1/2 INCH HIGHER THAN TOP OF CURB WHEN THEY ARE ADJACENT TO EACH OTHER.

PRIOR TO THE PLACEMENT OF STEEL PLATE BEAM GUARD OR MGS GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

FIELD.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

PLACE RING(S) AT REFERENCE AND/OR SECTION CORNER MONUMENTS DURING HMA PAVING OPERATIONS TO PERPETUATE THE MONUMENTS. THE RING(S) WILL BE REUSED FROM EXISTING MONUMENTS OR SUPPLIED BY THE CONTRACTOR. RING INSTALLATION IS INCIDENTAL TO HMA PAVING.

CONTACT THE PROJECT ENGINEER, THE COUNTY SURVEYOR, AND SEWRPC AT LEAST TWO WEEKS BEFORE WORKING NEAR ANY SECTION CORNER

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

PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.

HMA PAVING

LOCATION	STA TO STA	LAYER	THICKNESS	HMA PAVEMENT
7-INCH PAVEMENT REPLACEMENT	884+75 TO 954+30	LOWER-LOWER	3-INCH	3 MT 58-28 S
		UPPER-LOWER	2 1/4-INCH	3 MT 58-28 S
		UPPER	1 3/4-INCH	4 MT 58-28 S
2-INCH	954+30 TO 1203+10	UPPER	2-INCH	4 MT 58-28 S
ADJACENT TO R-51-82 AND HONEY CREEK RETAINING WALL	1154+70 TO 1159+65, 1177+25 TO 1178+55	LOWER	3 3/4-INCH	3 MT 58-28 S
		UPPER	2-INCH	4 MT 58-28 S
STH 20 SHOULDER PAVEMENT WIDENING / REPLACEMENT*	1052+63 TO 1058+60, 1142+00 TO 1146+25, 1151+80 TO 1154+70, 1159+65 TO 1168+71, 1187+28 TO 1190+09	LOWER	2 1/4-INCH	3 MT 58-28 S
		UPPER	1 3/4-INCH	4 MT 58-28 S

*CAN BE PAVED SINGLE LAYER 4-INCH, HMA PAVEMENT 4 MT 58-28 S

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVALS
PLAN DETAILS
STORM SEWER
CURB RAMPS
TRAFFIC SIGNAL
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR
ALIGNMENT DETAILS

2

BEGIN PROJECT
I.D. 2698-03-70
STA 884+75

EAST DR

STERLING CIR

STH 20
35 MPH
DESIGN SPEED

CTH ES

I-43 SB OFF RAMP

I-43 SB
I-43 NB

I-43 NB ON RAMP

CTH L

PAVEMENT REPLACEMENT LIMITS
STA 884+75 TO STA 954+30

RESURFACING LIMITS
STA 954+30 TO
STA 1203+10

STH 20
45 MPH
DESIGN SPEED

STH 20
55 MPH
DESIGN SPEED

890 900 910 920 930 940 950 960

EDWARDS ST

BYRNES ST

EAST TROY ELECTRIC RR

EAST TROY ELECTRIC RR
CROSSING BY OTHERS

CTH ES

ENERGY DR

I-43 SB ON RAMP

I-43 NB
OFF RAMP

B-64-88, B-64-89
I-43 OVERPASS BRIDGES
TO REMAIN

N

2

GREENWALD CT

970 980 990 1000 1010 1020 1030 1040

HILLBURN MILL RD

CARVER SCHOOL RD

N

STH 20
55 MPH
DESIGN SPEED

B-64-173
STH 20 BRIDGE OVER
HONEY CREEK TO REMAIN

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PROJECT OVERVIEW	SHEET E

PRE_4

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020201-PO

PLOT DATE : 8/30/2021 11:45 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 44

2

WEBER RD

OAK HILLS DR

1040 1050 1060 1070 1080 1090 1100 1110 1120

B-64-160
STH 20 BRIDGE OVER SPRING CREEK
TO REMAIN
REPLACE BEAM GUARD

STH 20
55 MPH
DESIGN SPEED

N

RETAINING WALL
R-51-82
STA 1154+80 TO 1159+50

REPLACE BEAM GUARD

1150 1160

STH 20
55 MPH
DESIGN SPEED

CULVERT REPLACEMENT
REMOVE BEAM GUARD

WISCONSIN CENTRAL
LIMITED RR

1170

B-51-85
STH 20 BRIDGE OVER
HONEY CREEK TO REMAIN
REPLACE BEAM GUARD

END PROJECT
I.D. 2698-03-70
STA 1203+10

HONEY CREEK RD N

BELL SCHOOL RD

1120 1130 1140

CULVERT REPLACEMENT

RACINE CO
WALWORTH CO

WISCONSIN LIMITED RR
CROSSING BY OTHERS

1180

MILLER RD

1200

N

HONEY CREEK CURVE SAFETY
COUNTERMEASURES INCLUDING
SHOULDER WIDENING, GRADING HILL ON
INSIDE OF CURVE AND HIGH FRICTION
SURFACE TREATMENT

1190

HONEY CREEK RD S

BELL SCHOOL RD

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PROJECT OVERVIEW	SHEET E

PRE_5

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020202-PO
PLOT DATE : 8/30/2021 11:46 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 44

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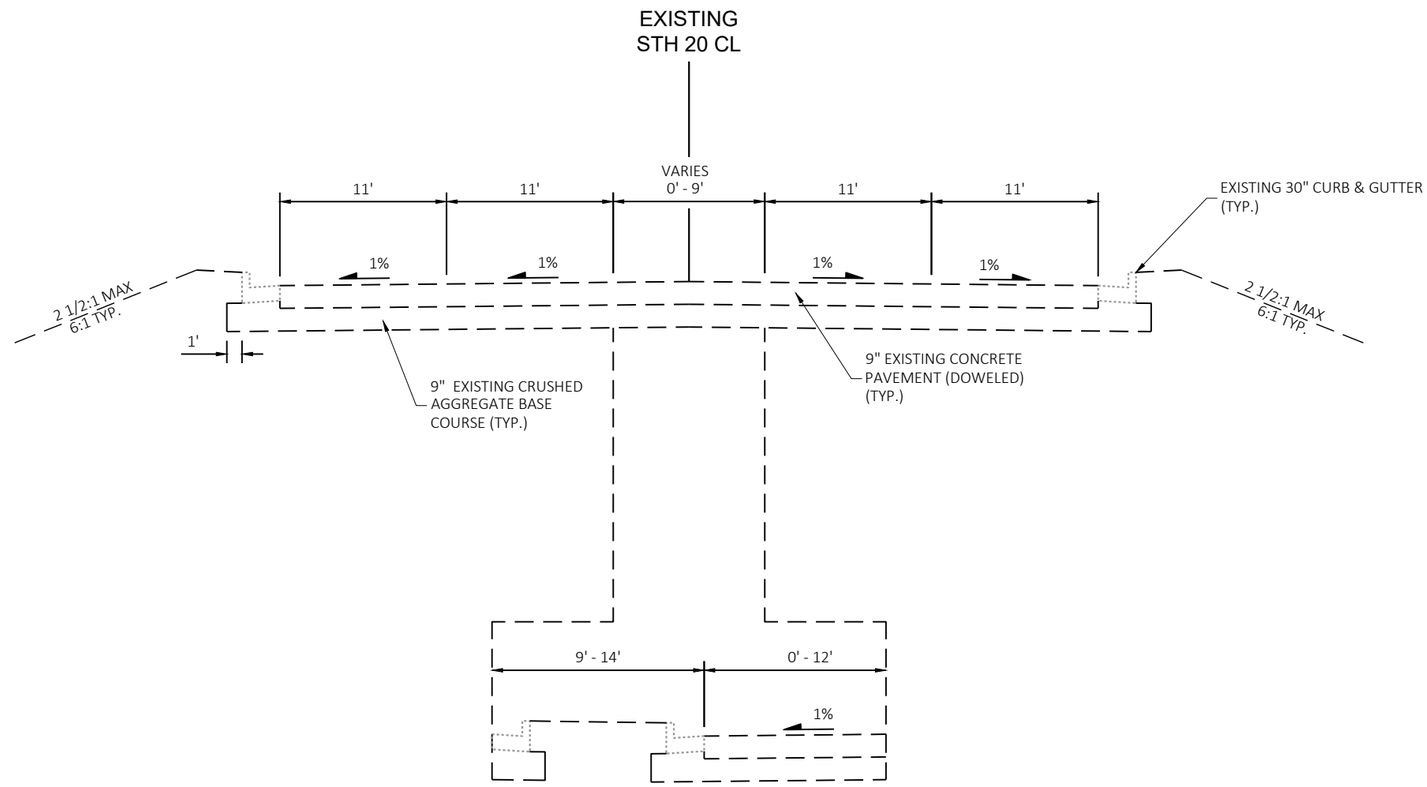

STA 899+00 TO STA 901+50

EXISTING TYPICAL SECTION STH 20
STA 884+75 TO STA 901+50

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

PRE_6

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020301-TS

PLOT DATE : 9/3/2021 11:09 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

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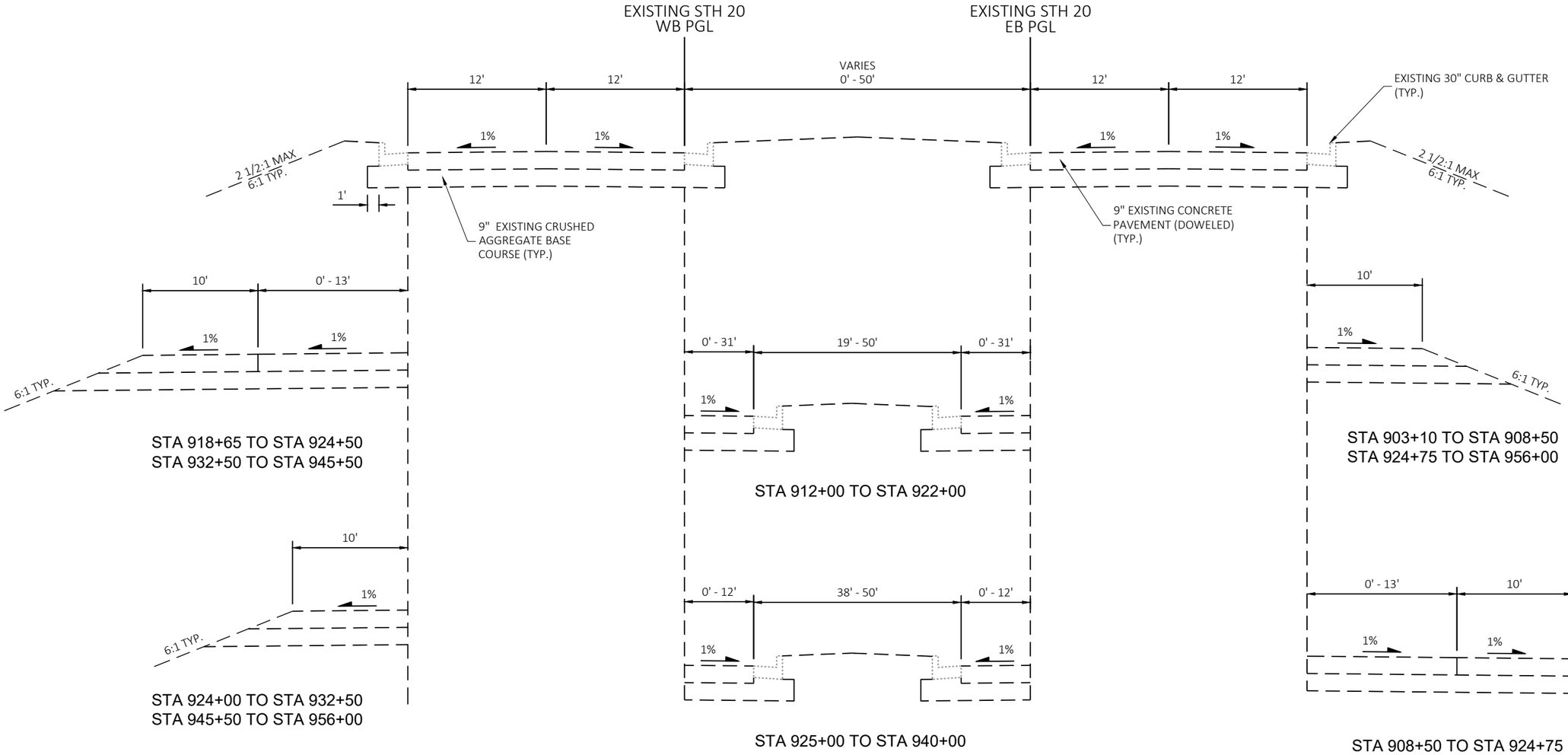

EXISTING TYPICAL SECTION STH 20
STA 901+50 TO STA 956+00

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020302-TS

PLOT DATE : 9/3/2021 11:09 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

PRE_7

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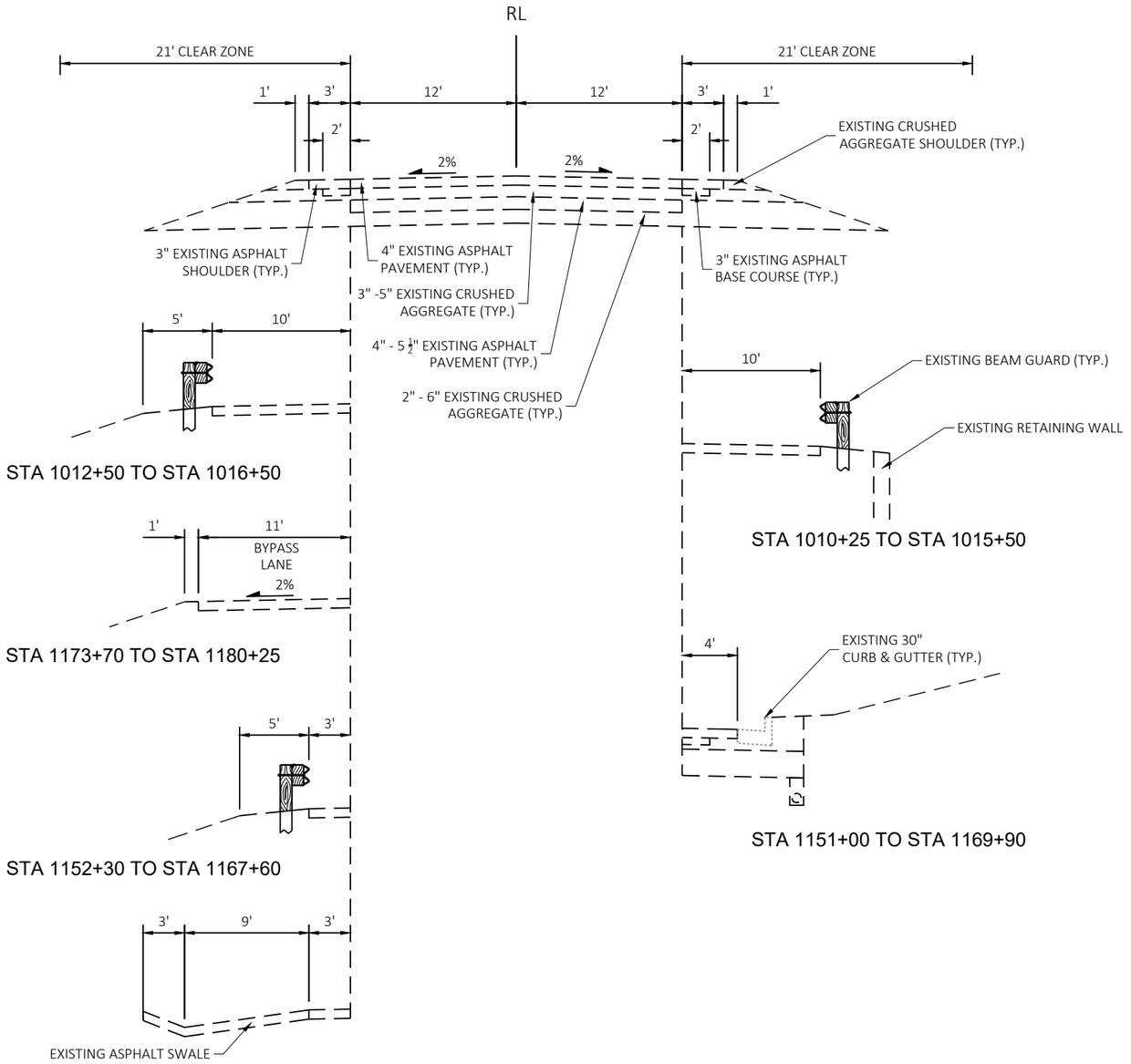

EXISTING TYPICAL SECTION STH 20
STA 956+00 TO STA 1203+10

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020303-TS
PLOT DATE : 9/3/2021 11:09 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

PRE_8

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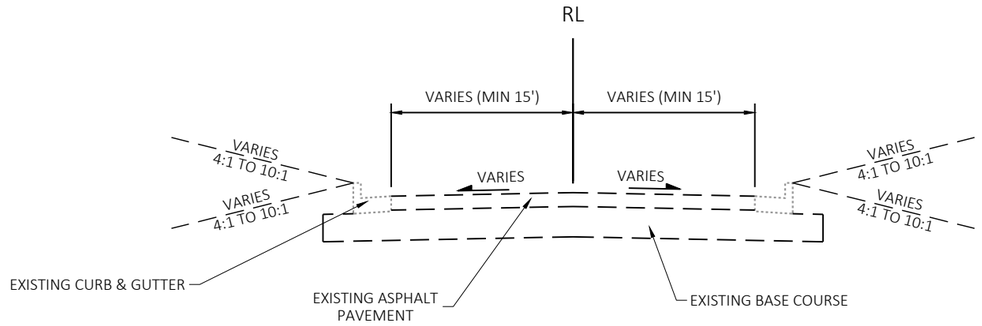
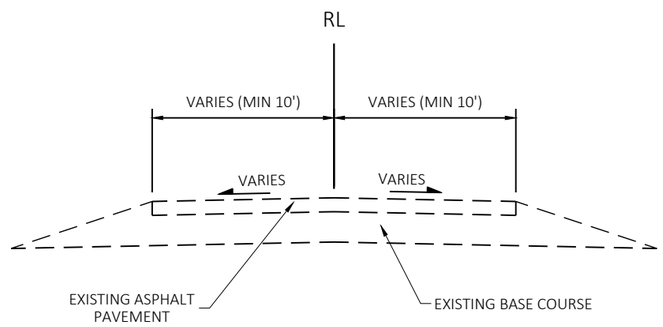


EXISTING TYPICAL SECTION
EDWARDS STREET
N. STERLING CIRCLE



EXISTING TYPICAL SECTION
EAST STREET
BYRNES STREET
GREENWALD COURT
CARVER SCHOOL ROAD
HILLBURN MILL RD
WEBER RD
OAK HILLS RD
BELL SCHOOL RD
MILLER RD
HONEY CREEK RD S / N

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

PRE_9

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020304-TS

PLOT DATE : 9/3/2021 11:09 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

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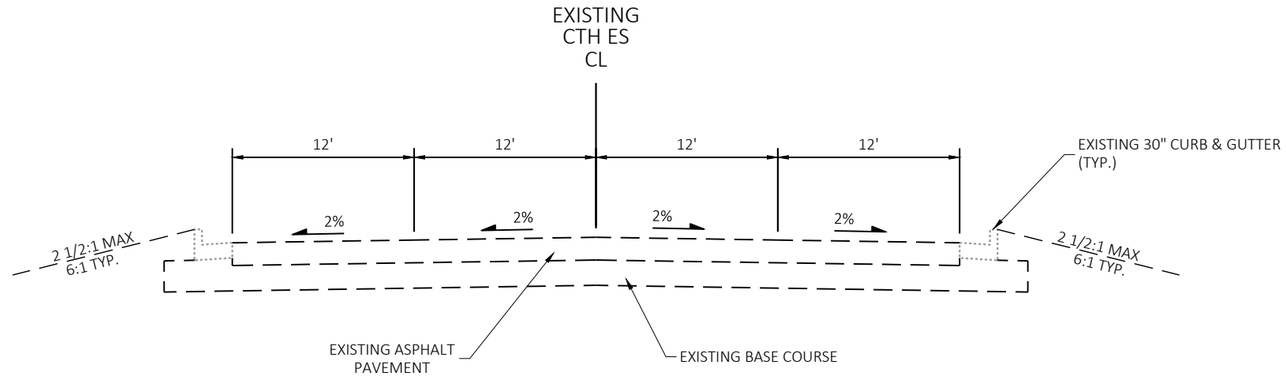
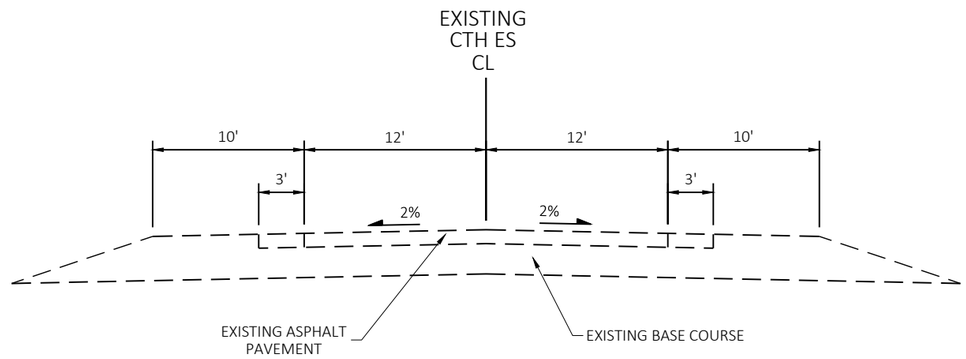


EXISTING TYPICAL SECTION CTH ES
STA 16+00 TO STA 18+00



EXISTING TYPICAL SECTION CTH ES
STA 21+00 TO STA 23+00

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

PRE_10

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020305-TS

PLOT DATE : 9/3/2021 11:09 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

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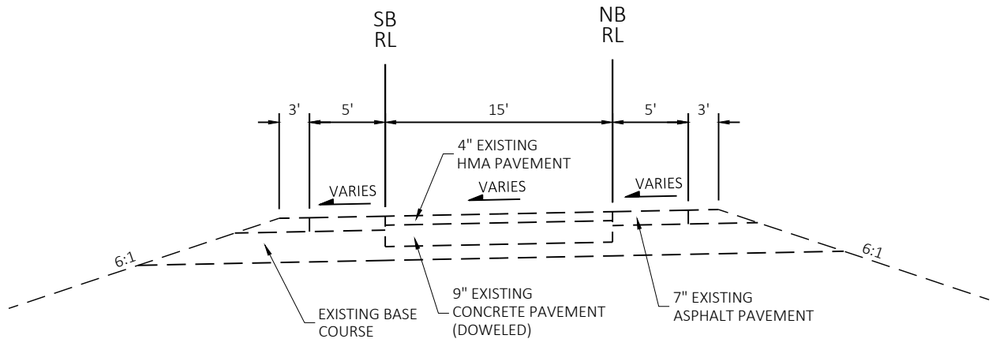
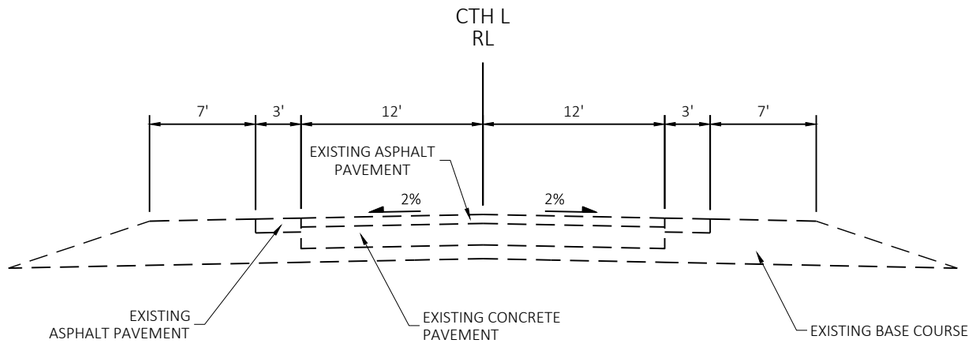


EXISTING TYPICAL SECTION I-43 RAMPS



EXISTING TYPICAL SECTION CTH L

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

PRE_11

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020306-TS

PLOT DATE : 9/3/2021 11:09 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

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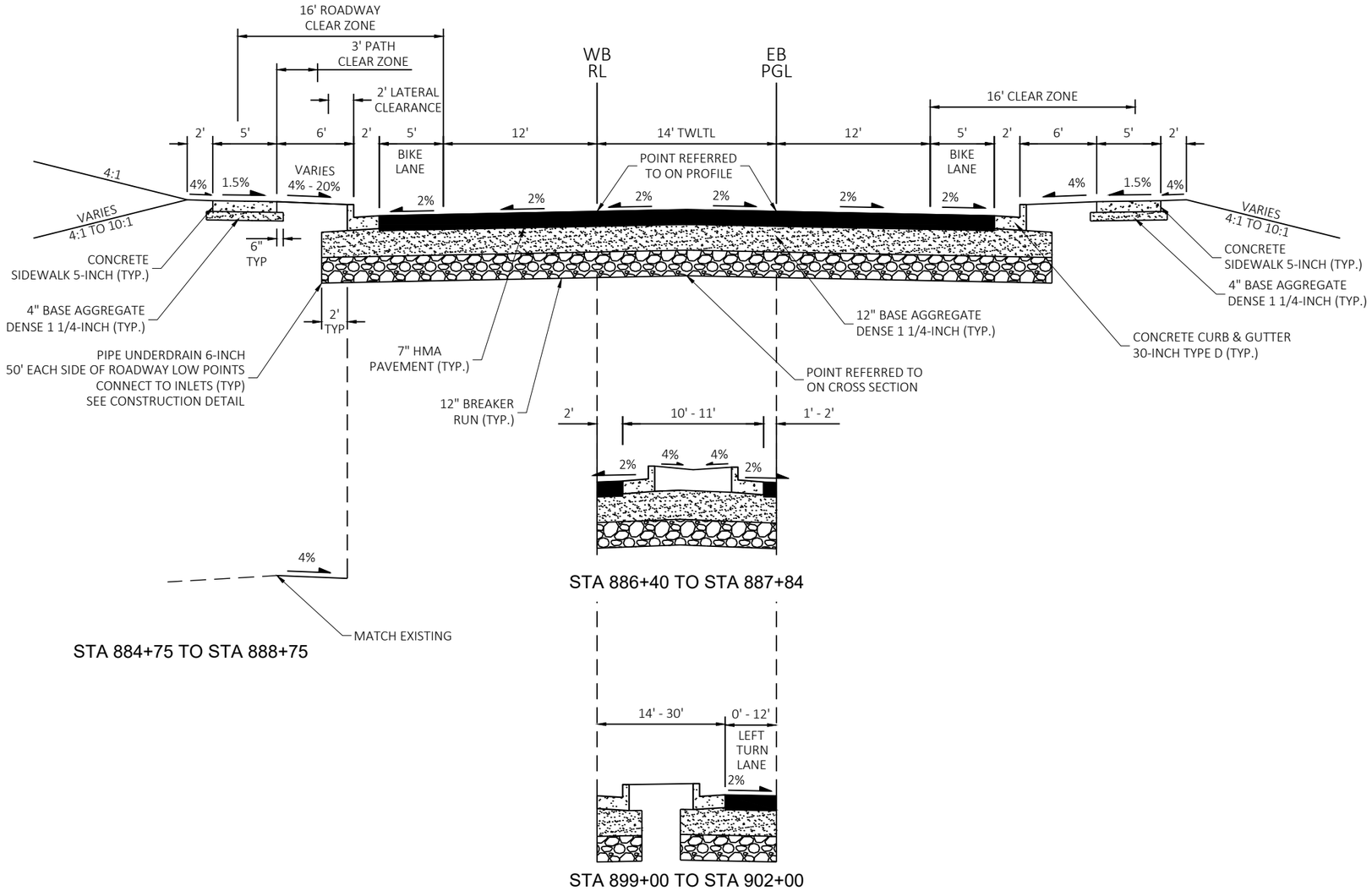


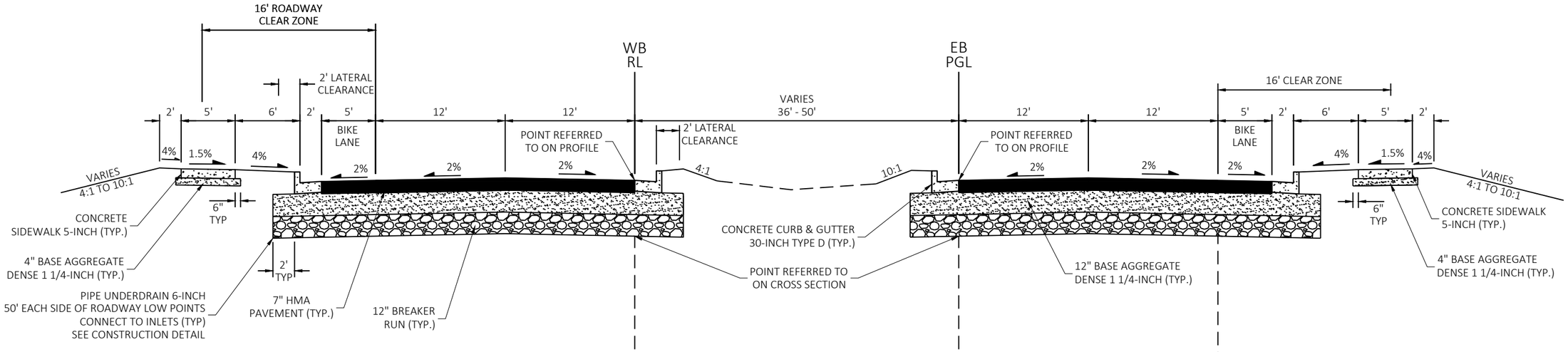
PROPOSED TYPICAL SECTION STH 20
STA 884+75 TO STA 902+00

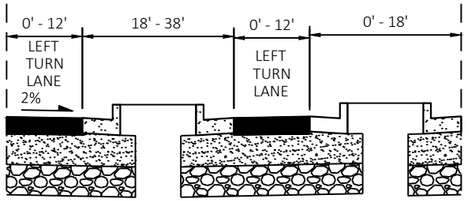
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

PRE_12

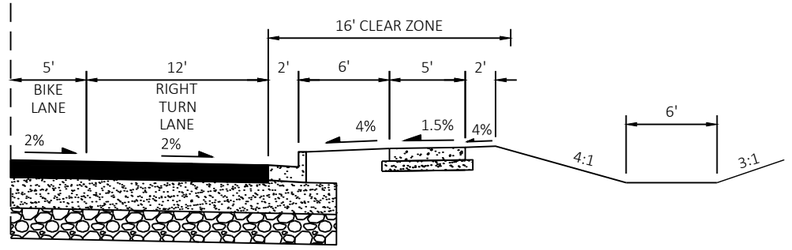
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020307-TS

PLOT DATE : 9/3/2021 11:09 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT





STA 912+00 TO STA 916+50



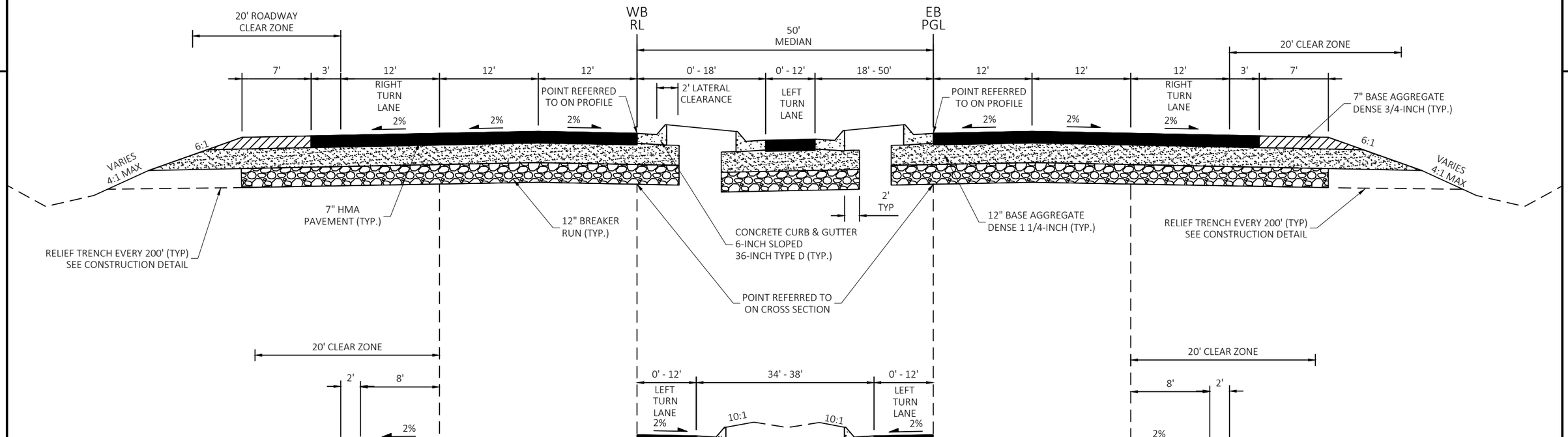
STA 905+25 TO STA 911+50

PROPOSED TYPICAL SECTION STH 20
STA 902+00 TO 916+50

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020308-TS
PLOT DATE : 9/3/2021 11:09 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

PRE_13



PROPOSED TYPICAL SECTION STH 20
STA 916+50 TO 932+75

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

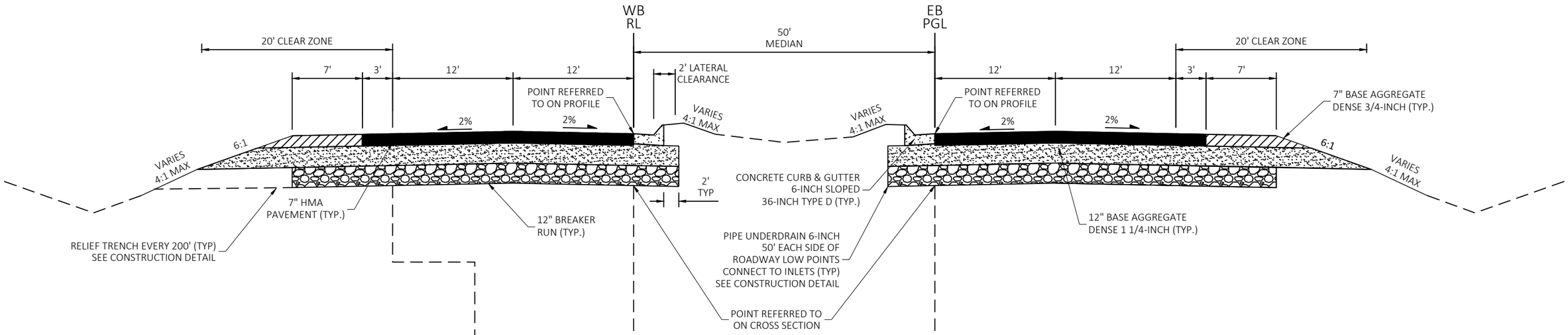
PRE_14

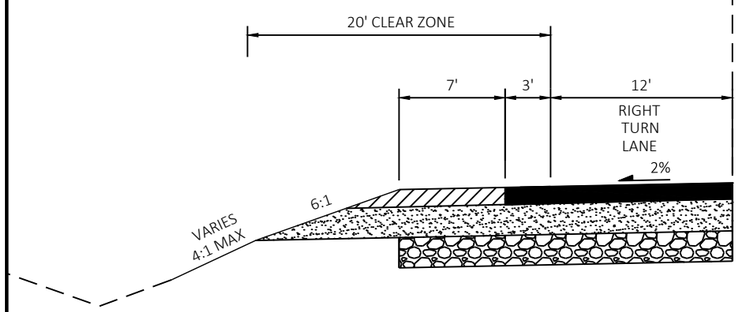
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020309-TS

PLOT DATE : 9/3/2021 11:09 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

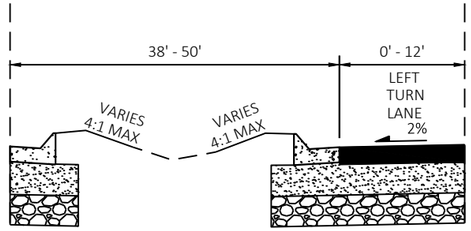
WISDOT/CADDS SHEET 42

2





STA 932+75 TO STA 944+55

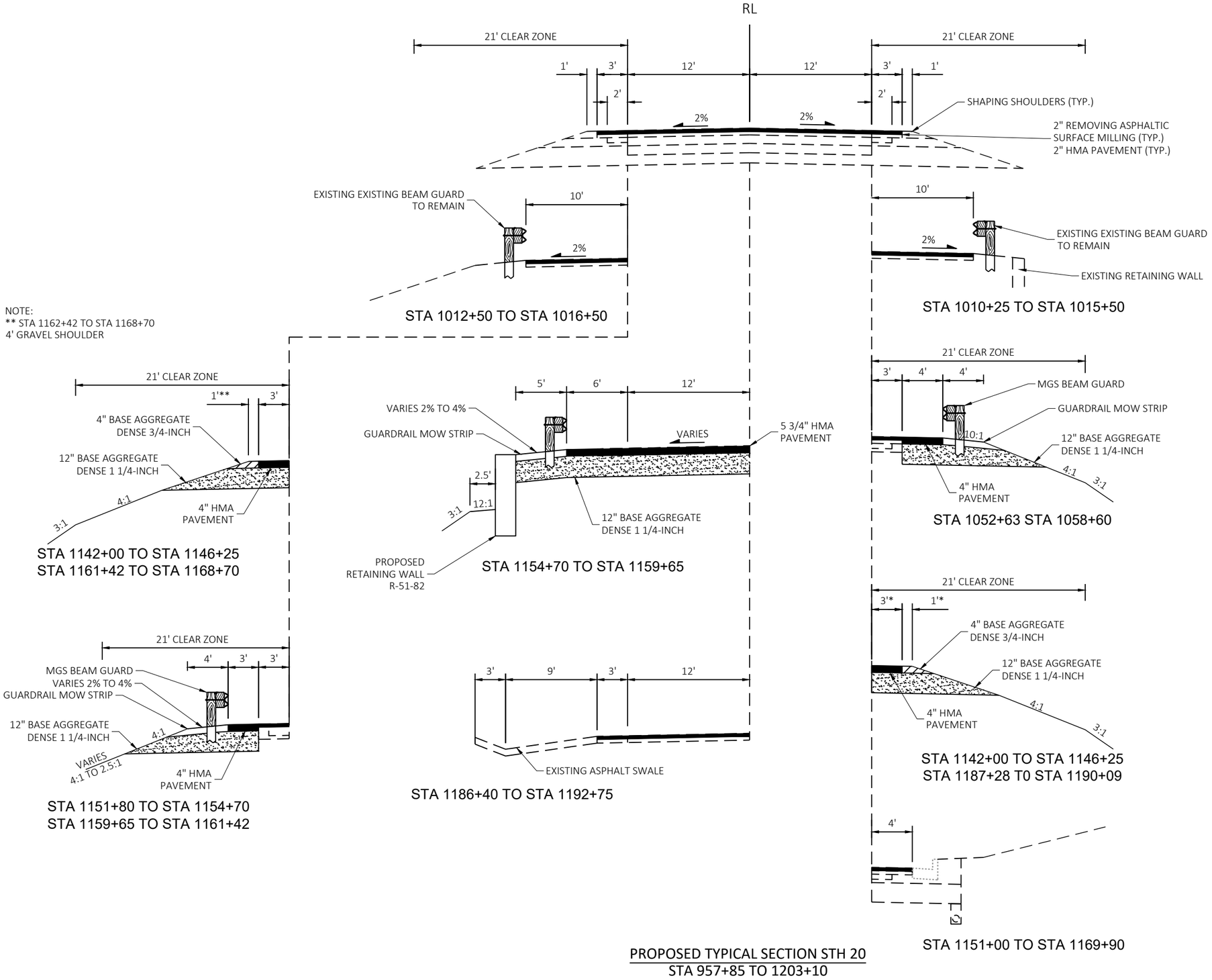


STA 934+74 TO STA 940+25

PROPOSED TYPICAL SECTION STH 20
STA 932+75 TO 954+30

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020310-TS
PLOT DATE : 9/3/2021 11:09 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



PROPOSED TYPICAL SECTION STH 20
STA 957+85 TO 1203+10

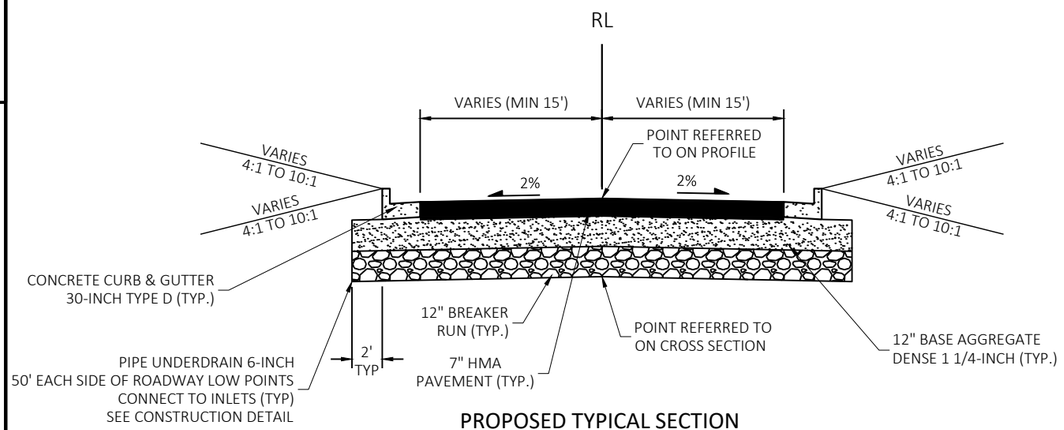
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

PRE_16

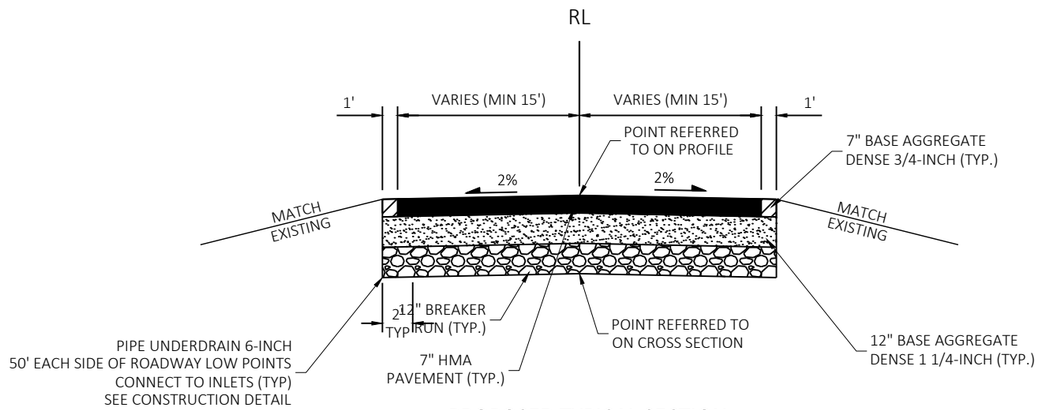
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020311-TS

PLOT DATE : 9/3/2021 11:09 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

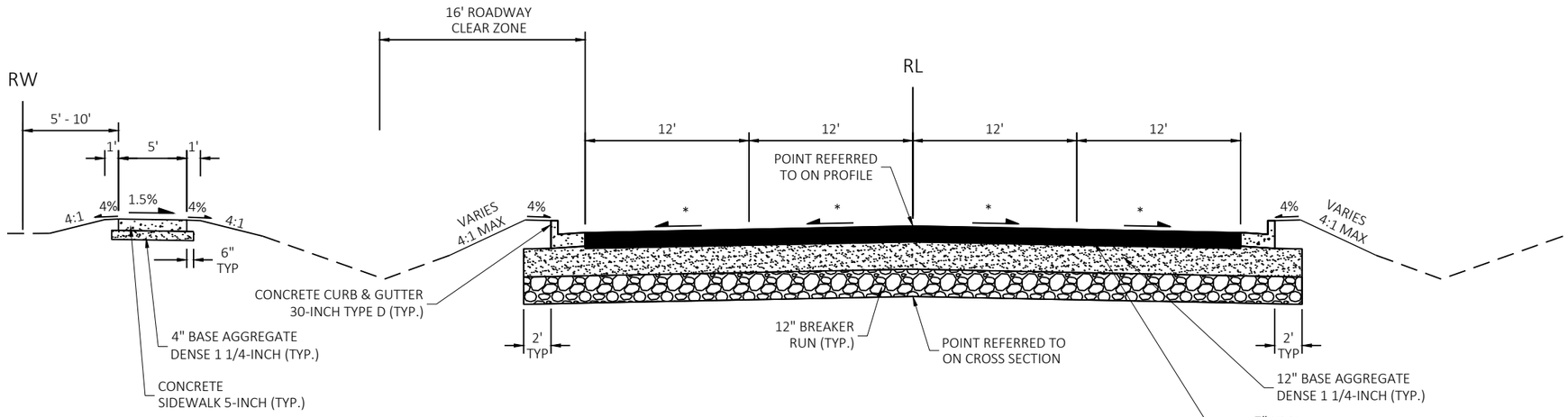
WISDOT/CADDS SHEET 42



PROPOSED TYPICAL SECTION
EDWARDS STREET
N. STERLING CIRCLE



PROPOSED TYPICAL SECTION
EAST STREET
BYRNES ST



STA 11+66 TO STA 17+80

PROPOSED TYPICAL SECTION CTH ES
STA 16+00 TO STA 18+00

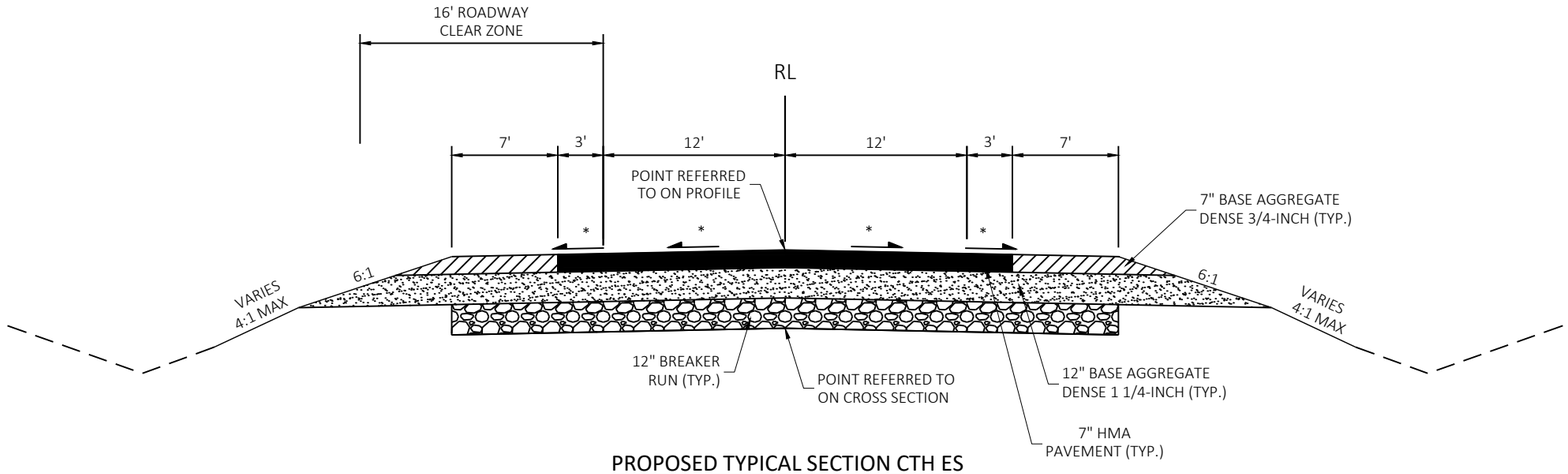
NOTE:

* SEE ALIGNMENT PLAN FOR SUPERELEVATION RATES

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET PRE_17 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020312-TS
PLOT DATE : 9/3/2021 11:10 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

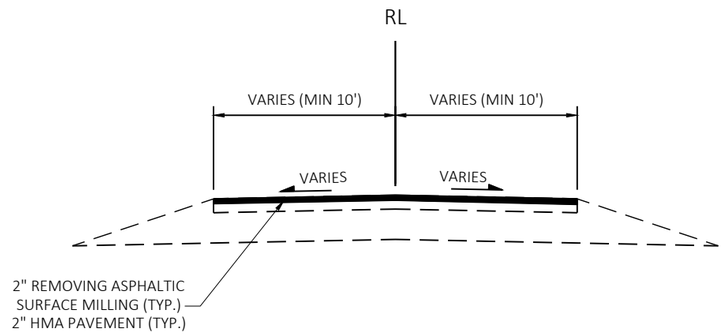
2



PROPOSED TYPICAL SECTION CTH ES
STA 21+00 TO STA 23+00

NOTE:

* SEE ALIGNMENT PLAN FOR SUPERELEVATION RATES



PROPOSED TYPICAL SECTION
GREENWALD COURT
CARVER SCHOOL ROAD
HILLBURN MILL RD
WEBER RD
OAK HILLS RD
BELL SCHOOL RD
MILLER RD
HONEY CREEK RD S / N

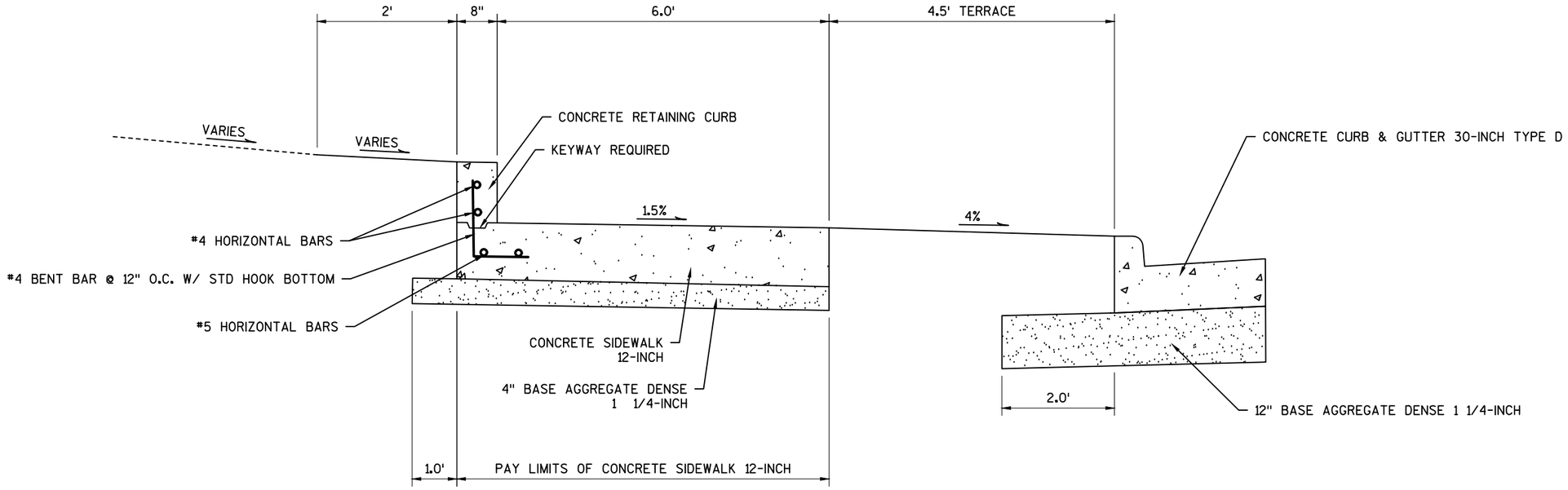
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	TYPICAL SECTIONS	SHEET E

PRE_18

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020313-TS

PLOT DATE : 9/3/2021 11:10 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



CONCRETE RETAINING CURB

STA 889+69EB TO STA 892+27EB

NOTES:

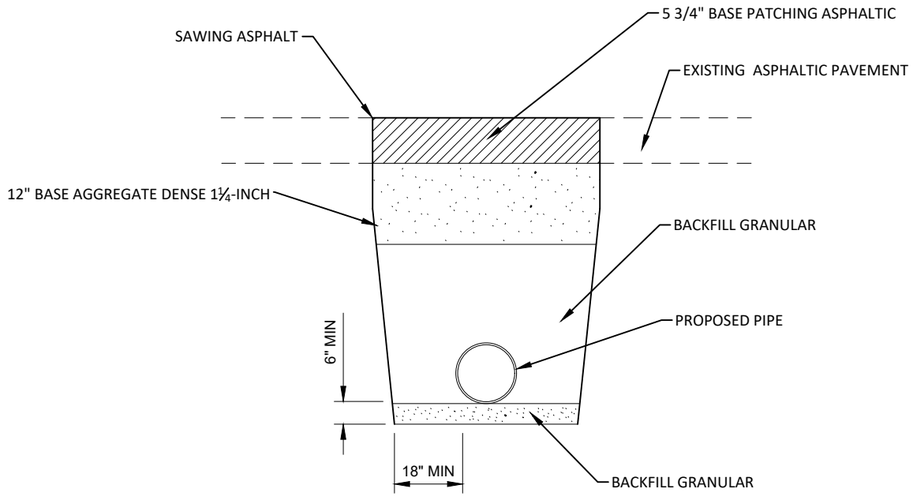
VERTICAL REINFORCEMENT SHALL BE NO.4 EPOXY COATED BENT TIE BAR SPACED @ 30" C-C. PROVIDE BAR LENGTH AS NECESSARY TO OBTAIN 2" CLEAR FROM TOP OF WALL.

HORIZONTAL REINFORCEMENT NO. 4 EPOXY COATED BARS. EACH BAR SHALL BE TIED TO EACH VERTICAL BAR WITH THE UPPER HORIZONTAL BAR TIED 3" FROM THE TOP OF THE VERTICAL BAR, AND THE LOWER HORIZONTAL BAR TIED 2" ABOVE THE TOP OF WALK. HORIZONTAL BARS SHALL BE LAPPED AND TIED, 12".

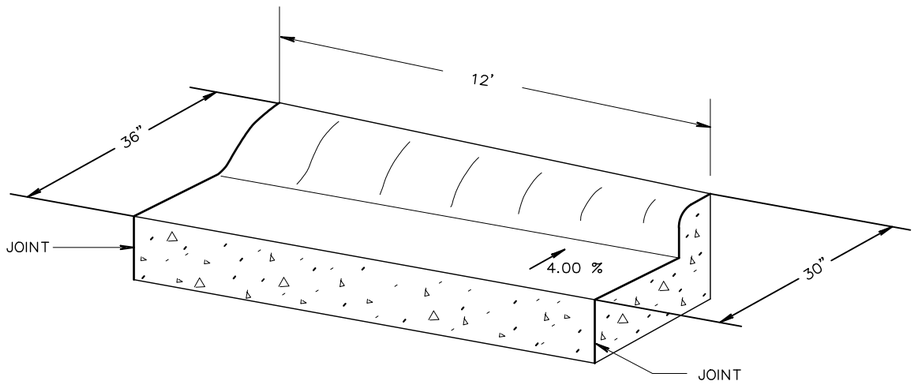
VERTICAL REINFORCEMENT AND LOWER HORIZONTAL BAR REQUIRED WHEN WALL HEIGHT ABOVE WALK EXCEEDS 4". UPPER HORIZONTAL #4 BAR REQUIRED WHEN WALL HEIGHT ABOVE WALK EXCEEDS 9".

RETAINING CURB HEIGHT VARIES WITH A MAXIMUM HEIGHT OF 24 INCHES.

1/2-INCH EXPANSION JOINT SHALL BE USED TO SEPARATE THE CONCRETE SIDEWALK 5-INCH FROM THE RETAINING CURB.



PIPE INSTALLATION IN RESURFACING SECTION



CONCRETE CURB & GUTTER TRANSITION

6-INCH SLOPED 36-INCH TYPE D TO 30-INCH TYPE D
(PAID FOR AS CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH/RACINE	CONSTRUCTION DETAILS	SHEET PRE_20 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_CD.DWG
STH 20 26980300 - 021002-CD
PLOT DATE : 9/3/2021 11:42 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:10 FT_1
WISDOT/CADDS SHEET 42

2

2

N

RIDGE DRIVE

VALLEY D

STH 20

REMOVING INLET

REMOVING INLET

REMOVING INLET

REMOVING STORM SEWER 12-INCH SEALING PIPE

REMOVING MANHOLE

REMOVING STORM SEWER 12-INCH

REMOVING STORM SEWER 12-INCH

REMOVING STORM SEWER 12-INCH

REMOVING INLET

REMOVING INLET

EXISTING R/W

EXISTING R/W

EXISTING R/W

R/W

R/W

TLE

TLE

TLE

±64.00

±81.00

±75.00

±75.00

±48.15

±50.00

885+00

885+00

886+00

886+00

887+00

887+00

888+00

888+00

889+00

889+00

890+00

890+00

10.00

EDWARDS STREET

XXXXXXXXXXXX

XXX

90.48' R

POND

VOLLEYBALL COURT

CABLE

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X CLEARING AND GRUBBING (ID)
- XXXX SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_21

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021001-RM

PLOT DATE : 9/9/2021 3:01 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

HILL TOP DRIVE

FRONTAGE ROAD

STH 20

EAST DRIVE

CLOTHES LINE

REMOVING INLET

REMOVING STORM SEWER 12-INCH

REMOVING MANHOLE

REMOVING STORM SEWER 24-INCH

EXISTING R/W

TLE

R/W

+00.00, -35.00' L

+75.00, -35.00' L

+70.00, -38.00' L

+65.00, -40.00' L

+36.00

+25.00

61.83' R

11+00

9+00

BYRNES STREET

POND

891+00 892+00 893+00 894+00 895+00 896+00

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_22

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021002-RM

PLOT DATE : 11/5/2021 9:53 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

STERLING CIRCLE

SIGN

EXISTING R/W

R/W

TLE

REMOVING INLET

REMOVING STORM SEWER 15-INCH

STH 20

896+00 897+00 898+00 899+00 900+00 901+00 902+00

51+00

+80.00

XXXXXXXXXXXXXXXXX

64.55' R

88.92' R

XXXXXXXXXXXXXXXXXX

XXXXXXXX

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X CLEARING AND GRUBBING (ID)
- XXXX SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_23

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021003-RM

PLOT DATE : 9/9/2021 3:02 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

STERLING CIRCLE

TLE

TLE

TREES TO REMAIN

R/W

EXISTING R/W

REMOVING INLET

EXISTING R/W

REMOVING INLET

50.05' L

XXXX

GUY POLE

STH 20

902+00 903+00 904+00 905+00 906+00 907+00

REMOVING INLET

REMOVING STORM SEWER 12-INCH

REMOVING INLET

STH 20

902+00 903+00 904+00 905+00 906+00 907+00

REMOVING STORM SEWER 12-INCH

R/W

TLE

REMOVING SMALL PIPE CULVERTS

EXISTING R/W

TLE

XXXXXXXXXX

121.65' R

SIGN TO REMAIN

REMOVE 15-INCH CORRUGATED PLASTIC PIPE TO 114' RT. SALVAGE AEW

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X CLEARING AND GRUBBING (ID)
- XXXX SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_24

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021004-RM

PLOT DATE : 11/16/2021 9:18 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

-47.00' L

REMOVING INLET

-47.00' L

-45.67' L

-55.08' L

STH 20

908+00 909+00 910+00 911+00 912+00 913+00

REMOVING STORM SEWER 12-INCH

REMOVING INLET

REMOVING STORM SEWER 12-INCH

REMOVING INLET

STH 20

908+00 909+00 910+00 911+00 912+00 913+00

REMOVING SMALL PIPE CULVERTS

112.30' R

EXISTING R/W

R/W

TLE

119.23' R

WETLAND BOUNDARY

R/W

SIGNS TO REMAIN

CANOPY

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X CLEARING AND GRUBBING (ID)
- XXXX SAWING

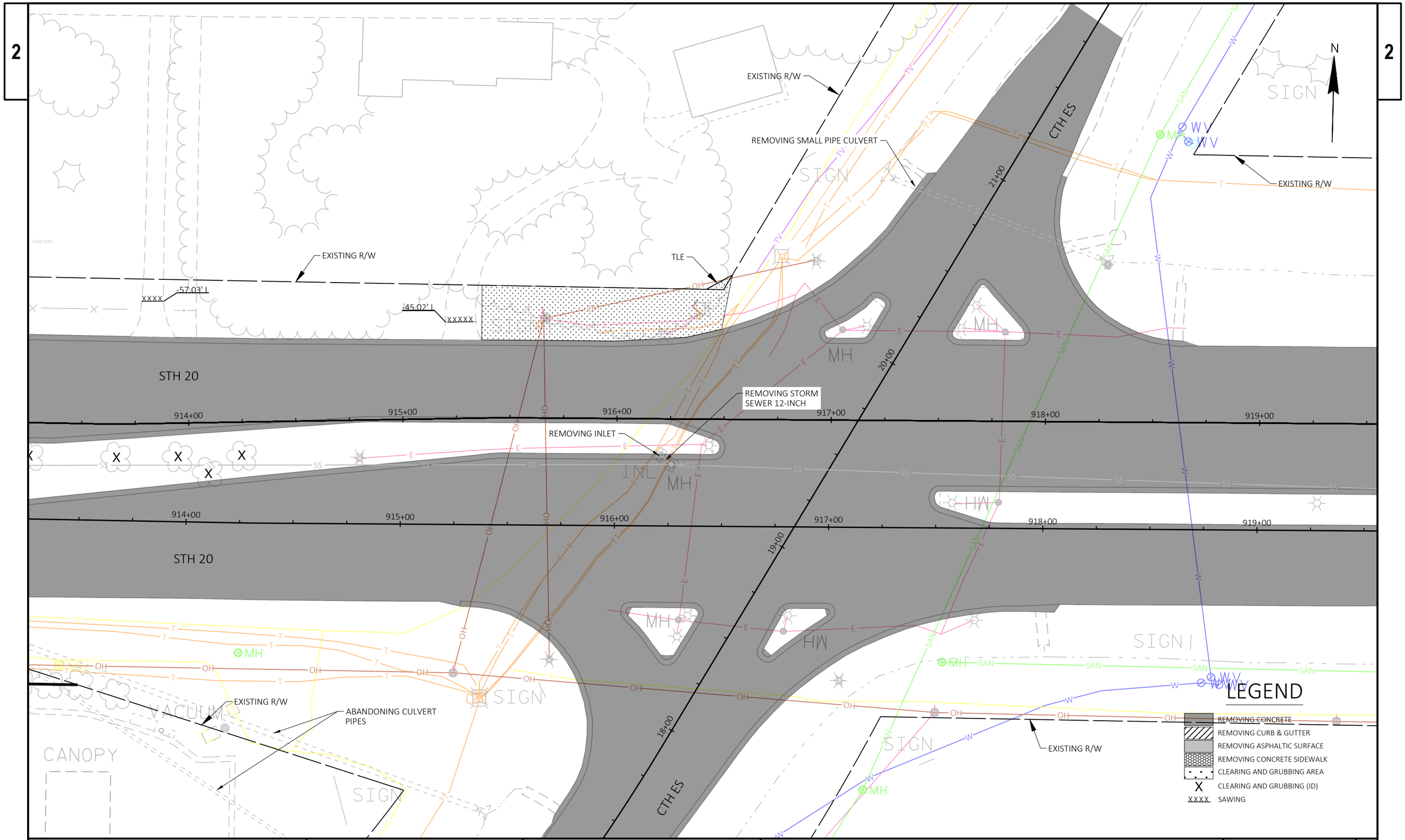
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_25

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021005-RM

PLOT DATE : 11/16/2021 9:18 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_26

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021006-RM

PLOT DATE : 10/29/2021 7:11 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

FILLER CAPS

SIGN

EXISTING R/W

STH 20

920+00 921+00 922+00 923+00 924+00 925+00

INL

SS

SIGN

REMOVING STORM SEWER 12-INCH

REMOVING INLET

REMOVING STORM SEWER 30-INCH

REMOVING INLET COVER

REMOVING INLET

REMOVING STORM SEWER 12-INCH

MH

SAN

W

G

OH

EXISTING R/W

N

I 43 SB OFF RAMP

I 43 SB ON RAMP

756+00

755+00

754+00

+10.64, -27.10' L

+85.06, 20.21' R

+25.00, 20.00' R

+87.03, -5.21' L

2

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_27

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021007-RM

PLOT DATE : 9/9/2021 2:30 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

756+00

+85.06, 20.21' R

STH 20

925+00 926+00 927+00 928+00 929+00 930+00 931+00

REMOVING INLET

REMOVING STORM SEWER 12-INCH

REMOVING INLET

REMOVING GUARDRAIL

REMOVING INLET

STH 20

925+00 926+00 927+00 928+00 929+00 930+00 931+00

+25.00, 20.00' R

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_28

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021008-RM

PLOT DATE : 9/9/2021 2:30 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

I 43 NB ON RAMP

760+00

759+00

757+00

756+00

+50.00, 0.00'

+65.08, -19.99' L

+31.00, -23.02' L

+25.10, 33.66' R

EXISTING R/W

REMOVING INLET

REMOVING STORM SEWER 12-INCH

REMOVING INLET

SIGN

SIGN

STH 20

STH 20

931+00

932+00

933+00

934+00

935+00

936+00

INL

INL

INL

INL

MH

MH

MH

SS

W

WV

G

OH

SAN

T

X

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_29

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021009-RM

PLOT DATE : 9/9/2021 2:31 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

EXISTING R/W

CTH L

21+00

+84.31

SIGN

STH 20

REMOVING STORM SEWER 12-INCH

REMOVING STORM SEWER 36-INCH

REMOVING MANHOLE

REMOVING INLET

937+00 938+00 939+00 940+00 941+00 942+00

SIGN

REMOVING INLET

REMOVING STORM SEWER 12-INCH

937+00 938+00 939+00 940+00 941+00 942+00

STH 20

+58.66

EXISTING R/W

SIGN

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_30

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021010-RM

PLOT DATE : 9/9/2021 2:31 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

STH 20

943+00 944+00 945+00 946+00 947+00 948+00

REMOVING INLET

MH

REMOVING STORM SEWER 12-INCH

REMOVING INLET

REMOVING STORM SEWER 12-INCH

STH 20

943+00 944+00 945+00 946+00 947+00 948+00

EXISTING R/W

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X CLEARING AND GRUBBING (ID)
- XXXX SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_31

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021011-RM

PLOT DATE : 9/9/2021 2:32 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

REMOVING INLET

STH 20

949+00

950+00

951+00

952+00

953+00

954+00

REMOVING STORM
SEWER 12-INCH

EXISTING R/W

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_32

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021012-RM

PLOT DATE : 9/9/2021 2:32 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

-82.14' L
-73.15' L
-82.09' L
-73.15' L

WETLAND BOUNDARY

-82.06' L
-73.03' L
-81.80' L
-72.85' L

ABANDONING
CULVERT PIPES

EXISTING R/W

EXISTING R/W

STH 20

915+00

915+00

CANOPY

FILLER
CAPS

SIGN

SIGN

SIGN

SIGNS

MH

MH

MH

MH

MH

MH

INL

INL

INL

INL

VACUUM

13+00

14+00

15+00

16+00

+00.00

17+00

18+00

CTH ES

ENERGY DRIVE

SOUTH

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - CTH ES	SHEET E

PRE_33

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021013-RM

PLOT DATE : 10/29/2021 7:12 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

N

TLE

EXISTING R/W

REMOVING SMALL PIPE CULVERT

EXISTING R/W

CTH ES

STH 20

20+00 21+00 22+00 23+00 24+00 25+00

917+00 918+00 919+00

+00.00

XXXXXXX

MH CB INLET SIGN WALL

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - CTH ES	SHEET E

PRE_34

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021014-RM

PLOT DATE : 9/9/2021 2:33 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

EXISTING R/W

2" REMOVING ASPHALTIC SURFACE MILLING

953+00 954+00 955+00 956+00 957+00 958+00 959+00 STH 20 960+00 961+00 962+00 963+00 964+00 965+00 966+00 967+00 968+00

STH 20 R/L

EXISTING R/W

WELL

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

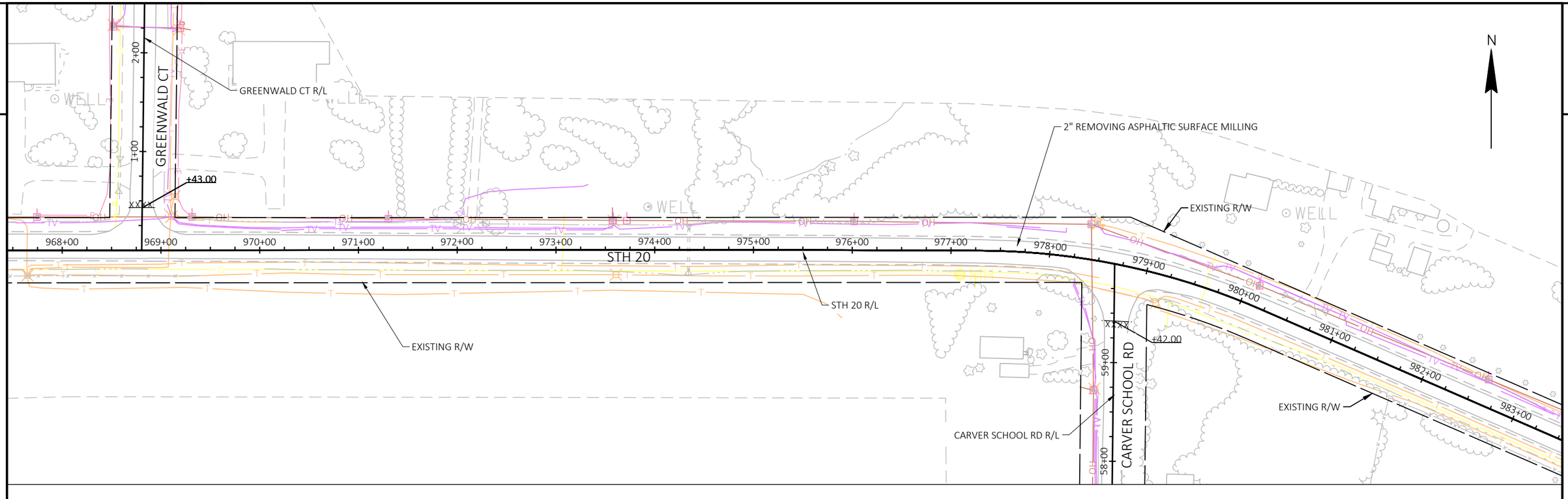
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

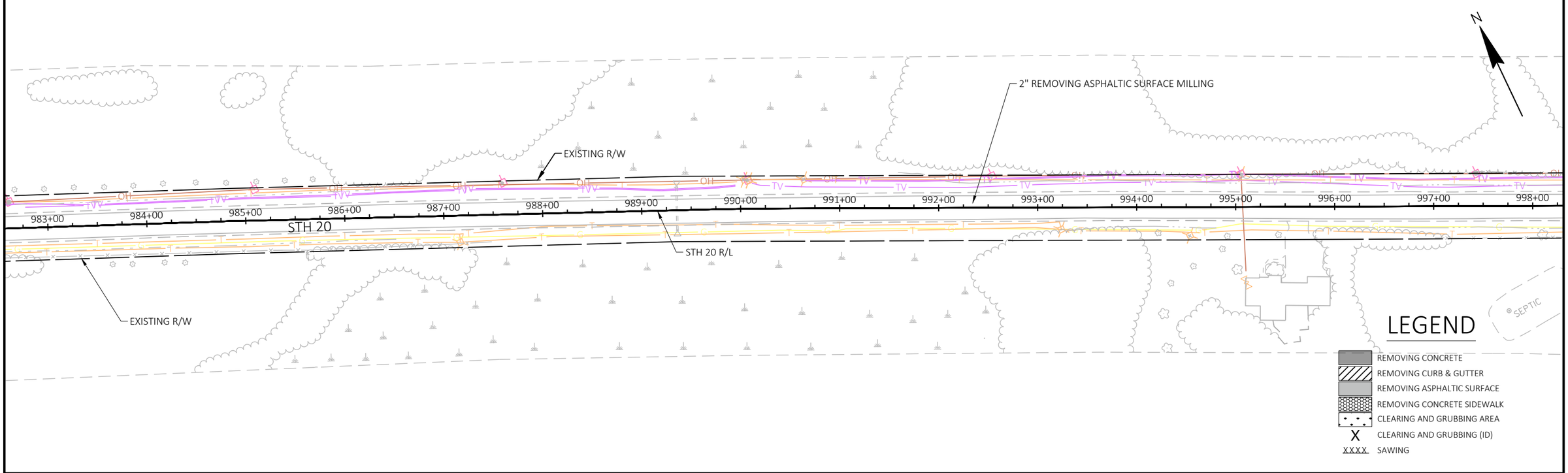
PRE_35

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021015-RM

PLOT DATE : 9/9/2021 2:33 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42





LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_36

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021016-RM

PLOT DATE : 9/9/2021 2:34 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

END CONSTRUCTION
HILLBURN MILL RD
STA 101+00

HILLBURN MILL RD R/L

HILLBURN MILL RD

101+00

2" REMOVING ASPHALTIC SURFACE MILLING

EXISTING R/W

997+00 998+00 999+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00 1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00

STH 20

STH 20 R/L

EXISTING R/W

RUINS

SEPTIC

GUY POLE

N

HILLBURN MILL RD R/L

HILLBURN MILL RD

101+00

END CONSTRUCTION
HILLBURN MILL RD
STA 101+00

STH 20 BRIDGE OVER HONEY CREEK
TO REMAIN (B-64-173)
STA 1013+89.28 TO STA 1014+61.76
BEAMGUARD TO REMAIN

2" REMOVING ASPHALTIC SURFACE MILLING

EXISTING R/W

1012+00 1013+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00 1021+00 1022+00 1023+00 1024+00 1025+00 1026+00 1027+00

STH 20

STH 20 R/L

EXISTING R/W

HONEY CREEK

GUY POLE

N

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_37

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021017-RM

PLOT DATE : 9/9/2021 2:35 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

2" REMOVING ASPHALTIC SURFACE MILLING

WELL

1027+00 1028+00 1029+00 1030+00 1031+00 1032+00 1033+00 1034+00 1035+00 1036+00 1037+00 1038+00 1039+00 1040+00 1041+00

STH 20

STH 20 WB R/L

EXISTING R/W

N

END CONSTRUCTION
WEBER RD STA 300+18

WEBER RD

301+00

WEBER RD R/L

300+00

2" REMOVING ASPHALTIC SURFACE MILLING

EXISTING R/W

1041+00 1042+00 1043+00 1044+00 1045+00 1046+00 1047+00 1048+00 1049+00 1050+00 1051+00 1052+00 1053+00 1054+00 1055+00 1056+00

STH 20

SPRING CREEK

STH 20 R/L

EXISTING R/W

STH 20 BRIDGE OVER SPRING CREEK
TO REMAIN (B-64-160)
STA 1055+53.52 TO STA 1056+53.26

SEE SHEET 021020-RM FOR MORE DETAIL

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

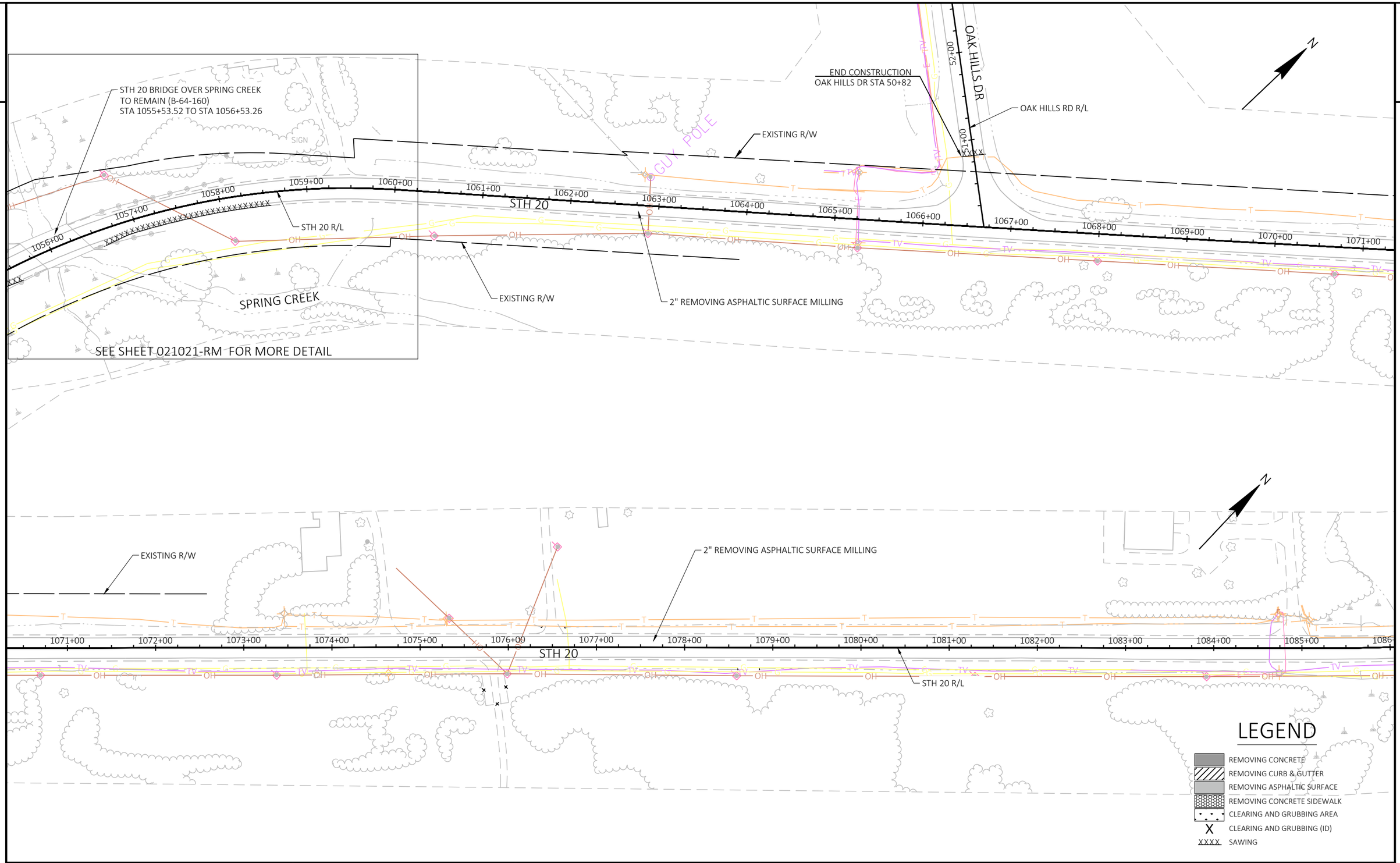
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_38

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021018-RM

PLOT DATE : 9/9/2021 2:36 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_39

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021019-RM

PLOT DATE : 9/9/2021 2:37 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

WEBER RD

WEBER RD R/L

END CONSTRUCTION
WEBER RD STA 300+18

XXXXXXXX

301+00

300+00

EXISTING R/W

EXISTING R/W

REMOVING GUARDRAIL

STH 20

1051+00

1052+00

1053+00

1054+00

1055+00

1056+00

SPRING CREEK

+63.00, 15.00' R

REMOVING GUARDRAIL

+25.00, 15.00' R

+59.03, 19.00' R

+59.00, 18.62' R

2" REMOVING ASPHALTIC SURFACE MILLING

STH 20 R/L

EXISTING R/W

STH 20 BRIDGE OVER SPRING CREEK
TO REMAIN (B-64-160)
STA 1055+53.52 TO STA 1056+53.26

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_40

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021020-RM

PLOT DATE : 9/9/2021 2:37 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

STH 20 BRIDGE OVER SPRING CREEK
TO REMAIN (B-64-160)
STA 1055+53.52 TO STA 1056+53.26

1056+00

+59.00, 18.62' R

SPRING CREEK

1057+00

REMOVING GUARDRAIL

EXISTING R/W

+90.00, 15.00' R

REMOVING GUARDRAIL

1058+00

+60.00, 15.00' R

EXISTING R/W

1059+00

1060+00

STH 20

STH 20 R/L

1061+00

SIGN

N

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

2

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_41

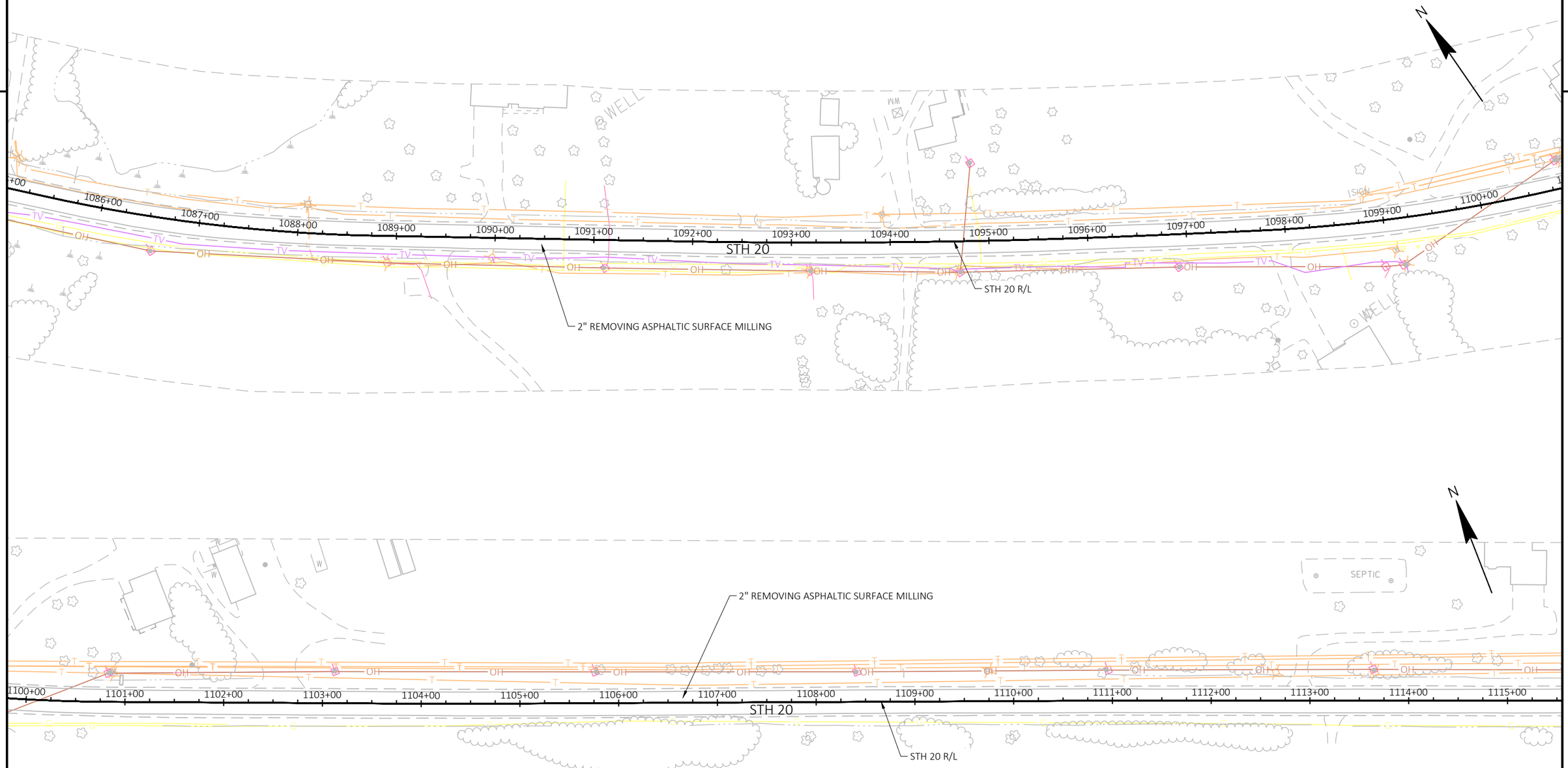
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021021-RM

PLOT DATE : 9/9/2021 2:37 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2



LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_42

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021022-RM

PLOT DATE : 9/9/2021 2:38 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

BELL SCHOOL RD

END CONSTRUCTION
BELL SCHOOL RD STA 50+75

EXISTING R/W

1115+00 1116+00 1117+00 1118+00 1119+00 1120+00 1121+00 1122+00 1123+00 1124+00 1125+00 1126+00 1127+00 1128+00 1129+00 1130+00

STH 20

2" REMOVING ASPHALTIC SURFACE MILLING

STH 20 R/L

EXISTING R/W

BEGIN CONSTRUCTION
BELL SCHOOL RD STA 49+48

BELL SCHOOL RD R/L

51+00 50+00 49+00 48+00

EXISTING R/W

1130+00 1131+00 1132+00 1133+00 1134+00 1135+00 1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00

STH 20

2" REMOVING ASPHALTIC SURFACE MILLING

STH 20 R/L

EXISTING R/W

SEE SHEET 021025-RM FOR MORE DETAIL

N

SEE SHEET 021026-RM FOR MORE DETAIL

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X CLEARING AND GRUBBING (ID)
- XXXX SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_43

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021023-RM

PLOT DATE : 9/9/2021 2:39 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2" REMOVING ASPHALTIC SURFACE MILLING

TLE

EXISTING R/W

EXISTING R/W

STH 20

STH 20 R/L

1147+00 1148+00 1149+00 1150+00 1151+00 1152+00 1153+00 1154+00 1155+00 1156+00 1157+00 1158+00 1159+00 1160+00

SEE SHEET 021026-RM FOR MORE DETAIL

N

HONEY CREEK

EXISTING R/W

SEE SHEET 021027-RM TO 021029-RM FOR MORE DETAIL

HONEY CREEK

EXISTING R/W

STH 20

1159+00 1160+00 1161+00 1162+00 1163+00 1164+00 1165+00 1166+00 1167+00 1168+00 1169+00 1170+00 1171+00 1172+00 1173+00 1174+00

EXISTING R/W

N

2" REMOVING ASPHALTIC SURFACE MILLING

EXISTING R/W

STH 20 R/L

EXISTING R/W

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X CLEARING AND GRUBBING (ID)
- XXXX SAWING

SEE SHEET 021027-RM TO 021029-RM FOR MORE DETAIL

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_44

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021024-RM

PLOT DATE : 9/9/2021 2:40 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 20

1134+00

1135+00

1136+00

1137+00

1138+00

1139+00

1140+00

EXISTING R/W

EXISTING R/W

REMOVING SMALL CULVERT PIPES

8'

STH 20 R/L

WELL

CANOPY

W

W

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_45

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021025-RM

PLOT DATE : 9/9/2021 2:40 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

R/W

TLE

EXISTING R/W

+40.00
45.00' L

+85.00
45.00' L

+40.00
33.00' L

+85.00
33.00' L

REMOVING SMALL
CULVERT PIPES

OH

+25.01
12.54' L

STH 20 R/L

1147+

1146+00

1145+00

1144+00

1143+00

1142+00

1141+00

12'

8'

+25.00
11.46' R

+99.95
13.03' L

STH 20

+00.00
10.97' R

+24.91
22.00' R

+20.00
22.00' R

REMOVING
GUARDRAIL

+24.91
38.00' R

+70.00
38.00' R

+70.00
53.00' R

+20.00
53.00' R

6'

REMOVING SMALL CULVERT PIPES

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X CLEARING AND GRUBBING (ID)
- XXXX SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_46

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021026-RM

PLOT DATE : 9/9/2021 2:41 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

TLE

REMOVING STORM SEWER 18-INCH

+50.00 58.00' L

R/W

REMOVING GUARDRAIL

EXISTING R/W

R/W

+33.00 58.00' L

REMOVING GUARDRAIL RETAINING WALL

+33.00 37.00' L

EXISTING R/W

TLE

+00.00 25.00' L

+0.00 20.00' L

+70.00 15.00' L

+96.00 0.00'

+50.00 25.00' L

+80.56 15.00' L

1154+00

1153+00

1152+00

+24.75 13.19' R

+70.00 0.00'

1155+00

+4.00 0.00'

1151+00

+86.00 0.00'

+94.00 0.00'

+74.80 13.27' R

1150+00

STH 20

STH 20 R/L

+90.41 13.39' R

+10.48 13.31' R

1156+00

EXISTING R/W

REMOVING CURB AND GUTTER

REMOVING INLETS

REMOVING SMALL CULVERT PIPES

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_47

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021027-RM

PLOT DATE : 9/9/2021 2:41 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

TLE

R/W

REMOVING STORM SEWER
24-INCH

EXISTING R/W

TLE

R/W

REMOVING STORM SEWER
18-INCH

TLE

EXISTING R/W

REMOVING GUARDRAIL
RETAINING WALL
1157+00

REMOVING GUARDRAIL

+1.00
0.00' 1158+00

+9.00
0.00'

1159+00

+65.00
15.00' L

+65.00
0.00'

1160+00

+81.08
15.00' L

+89.01
0.00'

1161+00

STH 20

+94.89
13.96' R

+15.11
13.99' R

+80.99
0.00'

1162+00

+70.34
13.86' R

+95.07
12.85' R

STH 20 R/L

REMOVING
CURB AND GUTTER

REMOVING INLETS

EXISTING R/W

REMOVING INLETS

REMOVING STORM SEWER
15-INCH

REMOVING INLETS

REMOVING
CURB AND GUTTER

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_48

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021028-RM

PLOT DATE : 9/9/2021 2:42 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

TLE

EXISTING R/W

REMOVING GUARDRAIL

+87.41
56.00' L

1163+00

1164+00

1165+00

1166+00

1167+00

1168+00

1169+00

STH 20

STH 20 R/L

+87.41
20.00' L

+75.00
15.00' L

EXISTING R/W

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_49

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021029-RM

PLOT DATE : 9/9/2021 2:42 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SEE SHEET 021031-RM FOR MORE DETAIL

HONEY CREEK

2" REMOVING ASPHALTIC SURFACE MILLING

N

EXISTING R/W

EXISTING R/W
STH 20 R/L

1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00 1183+00 1184+00 1185+00 1186+00 1187+00 1188+00 1189+00

STH 20

EXISTING R/W

SEE SHEET 021032-RM FOR MORE DETAIL

WISCONSIN CENTRAL LIMITED RAILROAD

STH 20 BRIDGE OVER HONEY CREEK
TO REMAIN (B-51-85)
STA 1178+64.74 TO STA 1179+32.22
REPLACE BEAM GUARD

HONEY CREEK

EXISTING AT-GRADE RAILROAD CROSSING
NO WORK PROPOSED

MILLER RD R/L

BEGIN CONSTRUCTION
MILLER RD STA 48+45

MILLER RD

48+00 49+00 50+00

SEE SHEET 021032-RM FOR MORE DETAIL

HONEY CREEK RD N

52+00 51+00

HONEY CREEK RD N R/L

BEGIN CONSTRUCTION
HONEY CREEK RD N STA 50+63

2" REMOVING ASPHALTIC SURFACE MILLING

EXISTING R/W

1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00 1198+00 1199+00 1200+00 1201+00 1202+00 1203+00 1204+00

STH 20

STH 20 R/L

EXISTING R/W

BEGIN CONSTRUCTION
HONEY CREEK RD S STA 49+32

HONEY CREEK RD S R/L

HONEY CREEK RD S

49+00 50+00 51+00

END PROJECT
STA 1203+10

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X CLEARING AND GRUBBING (ID)
- XXXX SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_50

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021030-RM

PLOT DATE : 9/9/2021 2:43 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

WISCONSIN CENTRAL LIMITED RAILROAD

EXISTING R/W

TLE

REMOVING GUARDRAIL

+24.50
21.91' L

+35.00
19.59' L

+67.08
23.67' L

+24.50
19.91' L

+35.00
15.88' L

+15.38
12.00' L

+54.88
12.00' L

REMOVING GUARDRAIL

STH 20 R/L

1176+00

1177+00

1178+00

1179+00

1180+00

1181+00

STH 20

59+00

INL

MILLER RD

49+00

REMOVING GUARDRAIL

TLE

REMOVING GUARDRAIL

TLE

HONEY CREEK

EXISTING R/W

STH 20 BRIDGE OVER HONEY CREEK
TO REMAIN (B-51-85)
STA 1178+64.74 TO STA 1179+32.22

MILLER RD R/L

BEGIN CONSTRUCTION
MILLER RD STA 48+45

48+00

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_51

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021031-RM

PLOT DATE : 9/9/2021 2:43 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 20

1186+00

1187+00

1188+00

1189+00

1190+00

1191+00

1192+00

+44.11
15.00' L

+34.00
27.65' L

+34.01
56.00' L

+22.98
56.00' L

+22.98
22.23' L

+75.00
15.00' L

+0.00
33.00' R

+0.00
55.00' R

+28.95
12.00' R

+8.59
12.00' R

+88.67
33.12' R

+88.67
55.00' R

TLE

EXISTING R/W

STH 20 R/L

15'

12'

50+00

49+00

48+00

HONEY CREEK RD S

HONEY CREEK RD S R/L

BEGIN CONSTRUCTION
HONEY CREEK RD S STA 49+32

OH

T

G

LEGEND

- REMOVING CONCRETE
- REMOVING CURB & GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- CLEARING AND GRUBBING AREA
- X — CLEARING AND GRUBBING (ID)
- XXXX — SAWING

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	REMOVAL PLAN - STH 20	SHEET E

PRE_52

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021001_RM.DWG
LAYOUT NAME - 021032-RM

PLOT DATE : 9/9/2021 2:44 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

RIDGE DRIVE

RIDGE DR

VALLEY DR

FRONTAGE ROAD

FRONTAGE RD

BEGIN PROJECT
STA 884+75

BP: 883+49.76

PI: 885+05.45

+6.04
15.99' LT

+26.02
16.99' LT

+5.45
16.00' RT

+24.71
18.46' RT

PI: 885+04.09

STH 20

884+00

884+00EB

885+00

885+00EB

STH 20 EB PGL

886+00

886+00EB

STH 20 WB R/L

+40.00
2.00' RT

+39.78
7.94' RT

PI: 886+95.00

+95.00
17.00' LT

+95.04
00' RT

887+00

887+00EB

+96.00
13.00' RT

PI: 886+93.63

+93.86
30.98' RT

EXISTING R/W

R/W

PC: 887+45.59

+45.59
17.00' LT

HIGH
SIDE CURB

+45.59
31.00' RT

+71.12
31.00' RT

+86.52
65.55' RT

+0.77
61.19' RT

TLE

EDWARDS ST R/L

BP: 9+06.58

EDWARDS ST

+74.96
34.50' LT

+0.00
34.25' LT

+84.00
2.00' RT

+84.00
13.00' RT

888+00

888+00EB

889+00

889+00EB

STH 20
EP: 10+00.00

PT: 889+19.60

PT: 889+29.18

PC: 889+44.00

PC: 889+52.66

+62.15
31.00' RT

+73.09
33.53' RT

+53.97
33.53' RT

+32.46
60.49' RT

TLE

EXISTING R/W

ADF

BEGIN CONSTRUCTION
EDWARDS ST STA 9+50

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

RADIUS TABLE

POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI EDWARDS ST)	OFFSET (ALI EDWARDS ST)	Y COORDS	X COORDS	RADIUS
1	887+71.08	60.98 RT	9+52.65	-45.98 LT	409216.376	800939.475	30'
2	887+80.61	60.51 RT	9+53.16	-36.36 LT	409216.933	800949.094	10'
3	887+91.81	44.01 RT	9+69.75	-25.18 LT	409233.560	800960.209	10'
4	888+62.15	61.00 RT	9+53.72	46.00 RT	409217.813	801031.452	30'

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201-PD

PLOT DATE : 10/6/2021 3:41 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_53

WISDOT/CADDS SHEET 42

2

N

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI EAST DR)	OFFSET (ALI EAST DR)	Y COORDS	X COORDS	RADIUS
5	893+81.32	-37.00 LT	10+37.26	-36.92 LT	409321.633	801549.687	20'
6	894+52.67	-37.00 LT	10+36.55	34.86 RT	409320.095	801621.454	20'

HILLTOP DRIVE

EAST DRIVE

EAST DR

EAST DR R/L

END CONSTRUCTION
EAST DR STA 10+36

FRONTAGE RD

SI

SW-1

CG-1

+74.96
34.50' LT

+0.00
34.25' LT

+0.09
30.00' LT

PT: 889+19.60

PT: 889+29.18

PC: 889+44.00

PC: 889+52.66

PT: 891+26.13

PC: 892+63.59

+1.15
35.60' LT

+32.81
36.17' LT

+81.33
17.00' LT

CR-4B1

5

11+00

STH 20 WB R/L

889+00

890+00

891+00

892+00

893+00

894+00

889+00EB

890+00EB

891+00EB

892+00EB

893+00EB

894+00EB

STH 20

STH 20 EB PGL

HMA

EP: 10+00.00

+62.15
31.00' RT

+73.09
33.53' RT

+53.97
33.53' RT

+69.58
44.03' RT

+62.46
33.50' RT

+81.56
33.50' RT

+10.07
31.00' RT

+40.00
44.00' RT

+50.00
39.00' RT

+32.46
60.49' RT

+40.37
60.61' RT

ADF

TLE

R/W

EXISTING R/W

CONCRETE RETAINING CURB
STA 889+70 TO STA 892+40
SEE CONSTRUCTION DETAILS

BEGIN CONSTRUCTION
BYRNES ST STA 9+25

BYRNES ST R/L

BYRNES ST

9+00

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI BYRNES ST)	OFFSET (ALI BYRNES ST)	Y COORDS	X COORDS	RADIUS
7	894+10.07	61.00 RT	9+53.64	-46.00 LT	409223.136	801576.614	30'
8	895+03.02	61.00 RT	9+51.98	46.00 RT	409220.560	801668.593	30'

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET PRE_54 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021202-PD

PLOT DATE : 10/5/2021 1:15 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI EAST DR)	OFFSET (ALI EAST DR)	Y COORDS	X COORDS	RADIUS
5	893+81.32	-37.00 LT	10+37.26	-36.92 LT	409321.633	801549.687	20'
6	894+52.67	-37.00 LT	10+36.55	34.86 RT	409320.095	801621.454	20'

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI BYRNES ST)	OFFSET (ALI BYRNES ST)	Y COORDS	X COORDS	RADIUS
7	894+10.07	61.00 RT	9+53.64	-46.00 LT	409223.136	801576.614	30'
8	895+03.02	61.00 RT	9+51.98	46.00 RT	409220.560	801668.593	30'

N

EAST DR
EAST DR R/L
11+00
END CONSTRUCTION
EAST DR STA 10+36
FRONTAGE RD
+1.15
35.60' LT
+32.81
36.17' LT
TLE
EXISTING R/W
R/W
SI
PI: 895+08.71
PC: 896+51.10
CR-4B1
CR-7B
CG-1
SW-1
+81.33
17.00' LT
+52.67
17.00' LT
893+00
894+00
895+00
896+00
897+00
898+00
899+00
STH 20
HMA
STH 20 WB R/L
893+00EB
894+00EB
895+00EB
896+00EB
897+00EB
898+00EB
899+00EB
+81.56
33.50' RT
+10.07
31.00' RT
+3.02
31.00' RT
+81.12
33.55' RT
+21.12
33.85' RT
STH 20 EB PGL
+98.00
0.00'
+98.00
16.88' RT
PT: 894+05.77
+40.37
60.61' RT
+72.72
61.70' RT
+1.17
36.03' RT
28'
33'
BEGIN CONSTRUCTION
BYRNES ST STA 9+25
BYRNES ST
BYRNES ST 9+00 T
BYRNES ST R/L
ADF
SIGN

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

PRE_55

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021203-PD
PLOT DATE : 10/5/2021 1:36 PM
PLOT BY : DE JESUS ORTIZ, N
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
9	898+60.39	1030.19 RT	408238.921	801990.123	995'

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI STERLING CIR)	OFFSET (ALI STERLING CIR)	Y COORDS	X COORDS	RADIUS
10	901+12.05	-64.00 LT	50+66.34	-56.00 LT	409323.147	802281.740	40'
11	901+34.55	3.00 RT	0+00.00	0.00	409255.367	802301.766	45'
12	901+01.67	-91.44 LT	50+94.18	-65.25 LT	409350.949	802272.370	55'
13	902+23.94	-69.00 LT	50+66.77	56.00 RT	409324.041	802393.738	40'
14	902+10.44	-71.64 LT	50+69.96	42.61 RT	409327.173	802380.339	10'
15	902+01.57	-42.00 LT	50+40.70	32.55 RT	409297.879	802370.392	15'

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
16	901+23.04	5.000	409253.791	802290.192	5'
17	900+96.31	-43.068	409302.807	802265.243	58'
18	902+31.36	50.000	409204.849	802396.781	50'
19	902+02.52	15.455	409240.428	802369.229	5'
20	902+41.36	-23.488	409277.921	802409.469	60'
21	902+72.27	-939.028	410191.712	802473.930	1005'
22	902+85.52	97.391	409155.504	802449.168	30'
23	903+29.84	46.698	409204.538	802495.318	35'
24	903+67.31	99.807	409150.090	802530.821	30'

END CONSTRUCTION
STERLING CIR STA 50+80

STERLING CIR

STERLING CIR R/L

51+00

PC: 901+80.27

EXISTING R/W

TLE

SI

CG-1

SW-1

CR-4B1

CR-2

CR-5

CR-7B1

CMSN

ADF

HMA

R/W

TREES TO REMAIN

SLOPE INTERCEPTS

RAILROAD CROSSING
WORK BY OTHERS

STH 20 WB R/L

STH 20 EB PGL

STH 20 WB

STH 20 EB

898+00EB

899+00EB

900+00EB

901+00EB

902+00EB

903+00EB

904+00EB

PT: 899+77.67

+0.38 72.96' LT
+2.48 65.58' LT
+13.51 51.08' LT
+16.57 42.00' LT
+23.94 29.00' LT
+31.36 0.00'
+52.02 65.63' LT
+19.76 39.50' LT
+83.98 67.37' LT
+5.51 36.57' LT
+11.78 25.00' LT
+12.05 24.00' LT
+12.05 17.00' LT
+23.04 0.00'
+99.31 11.62' RT
+98.00 0.00'
+31.53 18.33' RT
+98.00 16.88' RT
+11.98 12.47' RT
+93.08 16.84' RT
+25.47 9.37' RT
+57.43 39.93' RT
+98.99 19.00' RT
+38.69 36.45' RT
+1.17 36.03' RT
+18.25 58.21' RT
+49.10 61.23' RT
+74.25 61.18' RT
+25.67 64.89' RT
+86.59 67.41' RT
+88.69 67.56' RT
+97.58 72.68' RT
+64.61 74.51' RT
+67.76 80.28' RT
+76.59 74.04' RT
+6.34 81.69' RT
+11.07 91.43' RT
+13.39 80.40' RT
+18.34 93.30' RT
+32.82 39.90' RT
+77.35 41.01' RT
+87.84 0.00'
+68.00 69.81' RT
+17.45 79.43' RT
+50.02 75.29' RT
+37.48 54.51' LT
+16.74 48.26' LT
+96.94 42.01' LT
+99.06 29.00' LT
+16.95 34.77' LT

32'
4'
5'
24'
12'
5'

XXXX XXXX XXXX

STOP CURB AND GUTTER 12' FROM CENTERLINE
OF TRACKS. TAPER CURB HEAD OVER 8'.

EAST TROY ELECTRIC RAILROAD

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET PRE_56 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021204-PD

PLOT DATE : 11/16/2021 9:01 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
25	903+99.06	-59.021	409307.647	802568.370	30'
26	904+37.37	-6.508	409253.764	802604.725	35'
27	904+78.99	-59.000	409304.722	802648.071	30'
28	906+17.61	60.000	409183.087	802784.385	60'
29	906+59.51	24.809	409218.259	802826.669	5'
30	906+26.89	-6.125	409249.176	802793.971	50'
31	907+61.26	60.000	409183.493	802928.573	60'
32	907+22.96	20.526	409222.806	802890.109	5'
33	907+64.95	-15.000	409258.508	802931.947	60'

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

N

EAST TROY ELECTRIC RAILROAD

OAK RIDGE CEMETERY

EXISTING R/W

TLE

TREES TO REMAIN

SI

OVERHEAD SIGN STRUCTURE
STA 903+80 35' LT
CONCRETE BASE: 3' DIA. 17' DEPTH

GUY POLE

STH 20 WB

STH 20 EB

STH 20 WB R/L

STH 20 EB PGL

RAILROAD CROSSING WORK BY OTHERS

PC: 904+64.69

PT: 906+50.82

PT: 907+49.08

STOP CURB AND GUTTER 12' FROM CENTERLINE OF TRACKS. TAPER CURB HEAD OVER 8'.

SIGN TO REMAIN

EXISTING R/W

TLE

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

PRE_57

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021205-PD

PLOT DATE : 11/16/2021 9:02 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

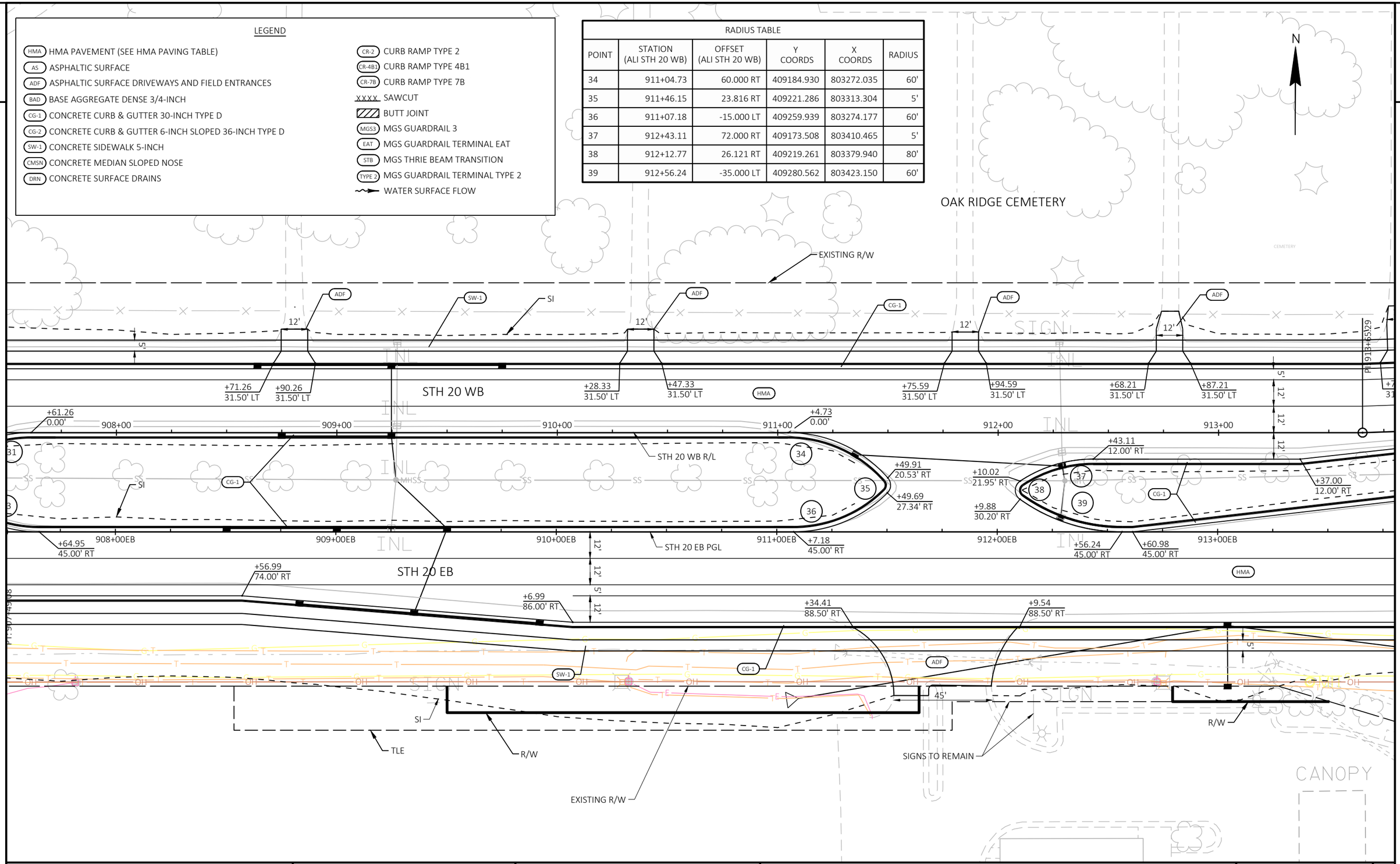
WISDOT/CADDS SHEET 42

2

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
34	911+04.73	60.000 RT	409184.930	803272.035	60'
35	911+46.15	23.816 RT	409221.286	803313.304	5'
36	911+07.18	-15.000 LT	409259.939	803274.177	60'
37	912+43.11	72.000 RT	409173.508	803410.465	5'
38	912+12.77	26.121 RT	409219.261	803379.940	80'
39	912+56.24	-35.000 LT	409280.562	803423.150	60'



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

PRE_58

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021206-PD

PLOT DATE : 11/16/2021 9:03 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI CTH ES)	OFFSET (ALI CTH ES)	Y COORDS	X COORDS	RADIUS
40	916+12.97	-186.00 LT	20+78.27	-180.57 LT	409440.102	803777.016	150'
41	918+64.84	-96.00 LT	21+29.21	82.00 RT	409353.987	804030.241	60'
50	916+09.58	85.00 RT	18+43.39	-45.36 LT	409169.082	803777.797	85'
51	916+44.45	13.00 RT	19+23.11	-52.06 LT	409241.610	803811.557	5'
52	917+53.07	37.00 RT	19+57.82	53.63 RT	409219.284	803920.532	5'
53	917+91.23	-50.00 LT	20+52.12	42.11 RT	409306.860	803957.347	100'
62	915+21.61	150.45 RT	17+38.97	-83.00 LT	409101.792	803694.428	60'
64	917+87.29	246.00 RT	17+95.44	189.59 RT	409010.835	803957.958	160'

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
42	917+20.49	-54.423 LT	409310.194	803886.551	5'
43	917+11.90	-36.000 LT	409291.642	803878.246	5'
44	916+91.32	-34.000 LT	409289.326	803857.702	5'
45	915+80.13	-223.833 LT	409477.426	803743.605	215'
46	917+70.56	-60.459 LT	409317.000	803936.520	5'
47	917+92.85	-36.000 LT	409292.887	803959.181	5'
48	917+57.21	-34.000 LT	409290.339	803923.579	5'

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
49	919+80.90	-229.746 LT	409489.502	804144.228	265'
54	916+02.96	86.000 RT	409167.980	803771.191	5'
55	916+38.49	84.000 RT	409170.527	803806.689	5'
56	916+24.80	111.032 RT	409143.288	803793.417	5'
57	915+16.27	179.308 RT	409072.749	803690.222	120'
58	916+83.77	86.054 RT	409169.169	803851.990	5'
59	917+05.66	84.000 RT	409171.560	803873.847	5'

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
60	916+74.67	105.334 RT	409149.752	803843.191	5'
61	918+62.85	345.490 RT	408912.519	804035.041	300'
63	916+06.89	224.922 RT	409029.136	803777.260	100'

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET PRE_59 E

2

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
42	917+20.49	-54.423 LT	409310.194	803886.551	5'
43	917+11.90	-36.000 LT	409291.642	803878.246	5'
44	916+91.32	-34.000 LT	409289.326	803857.702	5'
45	915+80.13	-223.833 LT	409477.426	803743.605	215'
46	917+70.56	-60.459 LT	409317.000	803936.520	5'
47	917+92.85	-36.000 LT	409292.887	803959.181	5'
48	917+57.21	-34.000 LT	409290.339	803923.579	5'
49	919+80.90	-229.746 LT	409489.502	804144.228	265'
54	916+02.96	86.000 RT	409167.980	803771.191	5'
55	916+38.49	84.000 RT	409170.527	803806.689	5'

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI CTH ES)	OFFSET (ALI CTH ES)	Y COORDS	X COORDS	RADIUS
40	916+12.97	-186.00 LT	20+78.27	-180.57 LT	409440.102	803777.016	150'
41	918+64.84	-96.00 LT	21+29.21	82.00 RT	409353.987	804030.241	60'
50	916+09.58	85.00 RT	18+43.39	-45.36 LT	409169.082	803777.797	85'
51	916+44.45	13.00 RT	19+23.11	-52.06 LT	409241.610	803811.557	5'
52	917+53.07	37.00 RT	19+57.82	53.63 RT	409219.284	803920.532	5'
53	917+91.23	-50.00 LT	20+52.12	42.11 RT	409306.860	803957.347	100'
62	915+21.61	150.45 RT	17+38.97	-83.00 LT	409101.792	803694.428	60'
64	917+87.29	246.00 RT	17+95.44	189.59 RT	409010.835	803957.958	160'

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
56	916+24.80	111.032 RT	409143.288	803793.417	5'
57	915+16.27	179.308 RT	409072.749	803690.222	120'
58	916+83.77	86.054 RT	409169.169	803851.990	5'
59	917+05.66	84.000 RT	409171.560	803873.847	5'
60	916+74.67	105.334 RT	409149.752	803843.191	5'
61	918+62.85	345.490 RT	408912.519	804035.041	300'
63	916+06.89	224.922 RT	409029.136	803777.260	100'

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET PRE_60 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021208-PD
PLOT DATE : 10/6/2021 6:42 PM
PLOT BY : DE JESUS ORTIZ, N
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI I43 SB-ON RAMP)	OFFSET (ALI I43 SB-ON RAMP)	Y COORDS	X COORDS	RADIUS
65	23+99.44	557.78 RT	755+17.64	-74.06 LT	409352.403	804577.407	50'
66	24+12.51	666.17 RT	754+85.29	30.20 RT	409309.945	804677.982	10'
67	924+66.76	7.00 RT	0+00.00	0.00	409260.258	804633.678	5'
68	924+64.43	45.00 RT	0+00.00	0.00	409222.227	804631.927	5'
69	925+52.85	62.00 RT	0+00.00	0.00	409206.589	804720.607	50'
70	925+26.05	25.86 RT	0+00.00	0.00	409242.316	804693.246	5'
71	925+83.24	-50.00 LT	755+01.36	100.24 RT	409319.043	804749.264	100'
72	923+95.15	146.00 RT	0+00.00	0.00	409120.173	804564.212	60'
73	925+02.89	104.69 RT	0+00.00	0.00	409163.133	804671.304	18'

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

I-43 SB OFF RAMP R/L

EXISTING R/W

+35.91
104.00' LT

OVERHEAD SIGN STRUCTURE
STA 923+60 52.5' LT
CONCRET BASE: 3' DIA. 17' DEPTH

65

+58.69
123.70' LT

+60.00
46.00' LT

END POST
+20

SI

POST 1
+35, 48' LT

14'

3'

I-43 SB OFF RAMP

+50.00
39.00' LT

BAD

TYPE 2

MGS3

EAT

10'

755+00

END CONSTRUCTION
I-43 SB OFF RAMP STA 755+06

SLOPE INTERCEPTS

+2.77
92.91' LT

20'

66

CG-2

+85.00
46.00' LT

+40.27
98.00' LT

+12.73
82.00' LT

2'

8'

+50.00
32.00' LT

DRIVEWAY CURB
STA 927+30 TO STA 928+00

STH 20 WB

EP: 755+49.58

BP: 754+57.92

HMA

12'

12'

12'

STH 20 WB R/L

922+00

+83.43
0.00'

923+00

924+00

+25.92
50.00' LT

+67.67
48.00' LT

925+00

926+00

927+00

928+00

+72.64
42.43' LT

67

+53.77
38.00' LT

+23.98
28.16' LT

69

70

+72.91
38.00' LT

END POST
+65

TYPE 2

SI

CG-2

68

755+00

+70.30
4.45' LT

71

POST 1
+81, 46' RT

EAT

MGS3

+23.94
20.15' LT

922+00EB

923+00EB

924+00EB

+65.33
0.00'

925+00EB

+84.14
0.00'

926+00EB

+82.91
0.00' RT

927+00EB

928+00EB

12'

12'

12'

12'

12'

12'

DRIVEWAY CURB
STA 925+50 TO STA 926+00

STH 20 EB

I-43 SB ON RAMP R/L

+96.06
39.00' RT

+99.96
37.11' RT

+23.36
32.00' RT

HMA

+0.00
2.00' RT

STH 20 EB PGL

7'

3'

8'

+85.91
52.65' RT

20'

73

BAD

2'

CG-2

+85.32
57.81' RT

SAN

EXISTING R/W

SI

+52.97
92.83' RT

754+00

72

I-43 SB ON RAMP

END CONSTRUCTION
I-43 SB OFF RAMP STA 753+75

I-43 SB

N

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

PRE_61

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021209-PD

PLOT DATE : 10/7/2021 7:28 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI I43 NB-ON RAMP)	OFFSET (ALI I43 NB-ON RAMP)	Y COORDS	X COORDS	RADIUS
74	932+52.52	-48.16 LT	758+65.08	-29.99 LT	409327.496	805418.491	10'
75	933+36.68	-76.00 LT	759+01.80	50.70 RT	409356.629	805502.218	40'

N

END CONSTRUCTION
I-43 NB ON RAMP STA 759+91.45

I-43 NB OFF RAMP R/L

I-43 NB ON RAMP

759+00

I-43 SB

I-43 NB

SI

CG-2

BAD

+62.46
47.09' LT

+33.60
32.00' LT

+55.41
38.59' LT

+82.24
44.14' LT

+50.00
32.00' LT

+75.06
32.00' LT

HMA

MIN VERTICAL CLEARANCE = 16.65' AT FLOWLINE

STH 20 WB

MIN VERTICAL CLEARANCE = 16.96'
AT FLOWLINE

STH 20 WB R/L

DRIVEWAY CURB
STA 931+25 TO STA 931+80

DRIVEWAY CURB
STA 927+30 TO STA 928+00

927+00

928+00

929+00

930+00

931+00

932+00

933+00

EAT

+64.71
0.00'

BP: 758+39.89

+86.98
0.00'

+82.01
4.46' RT

END POST
+65

TYPE 2

MGS3

END POST
+68

TYPE 2

POST 1
+40, 4' RT

+24.49
19.83' RT

+24.52
27.82' RT

+83.54
38.00' RT

+94.29
38.00' RT

+79.86
42.46' RT

+84.83
48.00' RT

757+00

927+00EB

928+00EB

929+00EB

930+00EB

931+00EB

932+00EB

933+00EB

STH 20 EB PGL

+0.00
82.00' RT

STH 20 EB

MIN VERTICAL CLEARANCE
= 16.36' AT LANE LINE

MIN VERTICAL CLEARANCE = 16.54'
AT LANE LINE

DRIVEWAY CURB
STA 929+30 TO STA 930+05

+75.08
82.00' RT

+30.28
82.00' RT

+43.47
99.01' RT

24'

21'

I-43 OVERPASS BRIDGES
B-64-88, B-64-89
TO REMAIN

I-43 SB

I-43 NB

756+00

81

END CONSTRUCTION
I-43 NB OFF RAMP STA 756+66.31

I-43 NB OFF RAMP

I-43 NB OFF
RAMP R/L

PT: 755+22.00

755+00

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI I43 NB-OFF RAMP)	OFFSET (ALI I43 NB-OFF RAMP)	Y COORDS	X COORDS	RADIUS
76	931+64.71	100.00 RT	756+21.45	-101.20 LT	409178.005	805332.974	100'
77	932+21.50	23.84 RT	757+03.33	-53.04 LT	409255.028	805388.584	5'
78	931+94.29	-12.00 LT	757+36.00	-83.99 LT	409290.446	805360.826	50'
79	932+86.98	5.00 RT	757+29.19	10.00 RT	409274.874	805453.766	5'
80	932+84.83	43.00 RT	756+91.18	12.00 RT	409236.845	805452.202	5'
81	931+98.81	130.28 RT	755+95.06	-64.00 LT	409148.256	805367.538	58'
82	933+28.75	124.70 RT	756+14.74	64.55 RT	409155.826	805497.372	40'

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET PRE_62 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021210-PD

PLOT DATE : 10/7/2021 7:40 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI I43 NB-ON RAMP)	OFFSET (ALI I43 NB-ON RAMP)	Y COORDS	X COORDS	RADIUS
74	932+52.52	-48.16 LT	758+65.08	-29.99 LT	409327.496	805418.491	10'
75	933+36.68	-76.00 LT	759+01.80	50.70 RT	409356.629	805502.218	40'

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

N

I-43 NB OFF RAMP R/L

END CONSTRUCTION
I-43 NB ON RAMP STA 759+91.45

I-43 NB ON RAMP

759+00

5'

3'

+95.24
117.85' LT

+99.46
76.26' LT

75

EXISTING R/W

SI

+62.46
47.09' LT

74

+33.60
32.00' LT

+55.41
38.59' LT

+82.24
44.14' LT

+36.78
39.00' LT

BAD

+65.00
39.00' LT

SIGN

7'

3'

12'

12'

PI: 937+00.01

BP: 758+38.89

+64.71
0.00'

932+00

+86.98
0.00'

933+00

STH 20 WB R/L

HMA

934+00

935+00

936+00

937+00

STH 20 WB

+82.01
4.46' RT

79

+24.49
19.83' RT

76

CG-2

77

78

+24.52
27.82' RT

+94.29
38.00' RT

757+00

80

+79.86
42.46' RT

+74.09
50.00' RT

INL

MH

SS

CG-2

SI

12'

12'

932+00EB

933+00EB

+84.83
48.00' RT

+24.09
50.00' RT

934+00EB

935+00EB

936+00EB

937+00EB

STH 20 EB PGL

HMA

STH 20 EB

+30.28
82.00' RT

8'

2'

24'

21'

+29.86
89.28' RT

+10.22
76.98' RT

BAD

7'

3'

+43.47
99.01' RT

+99.17
111.04' RT

82

81

W

WV

G

OH

SAN

MH

I-43 NB OFF RAMP

756+00

END CONSTRUCTION
I-43 NB OFF RAMP STA 756+66.31

I-43 NB OFF RAMP R/L

EXISTING R/W

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI I43 NB-OFF RAMP)	OFFSET (ALI I43 NB-OFF RAMP)	Y COORDS	X COORDS	RADIUS
76	931+64.71	100.00 RT	756+21.45	-101.20 LT	409178.005	805332.974	100'
77	932+21.50	23.84 RT	757+03.33	-53.04 LT	409255.028	805388.584	5'
78	931+94.29	-12.00 LT	757+36.00	-83.99 LT	409290.446	805360.826	50'
79	932+86.98	5.00 RT	757+29.19	10.00 RT	409274.874	805453.766	5'
80	932+84.83	43.00 RT	756+91.18	12.00 RT	409236.845	805452.202	5'
81	931+98.81	130.28 RT	755+95.06	-64.00 LT	409148.256	805367.538	58'
82	933+28.75	124.70 RT	756+14.74	64.55 RT	409155.826	805497.372	40'

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

PRE_63

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021211-PD

PLOT DATE : 10/7/2021 7:58 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

RADIUS TABLE							
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	STATION (ALI CTH L)	OFFSET (ALI CTH L)	Y COORDS	X COORDS	RADIUS
83	939+39.17	-79.00 LT	20+91.99	-76.02 LT	409365.402	806105.777	40'
84	939+94.80	-46.00 LT	20+50.71	-26.23 LT	409332.443	806161.429	5'
85	939+99.75	-72.74 LT	20+76.35	-17.16 LT	409359.186	806166.363	5'
86	940+04.08	-46.00 LT	20+49.27	-17.06 LT	409332.450	806170.710	5'
87	938+72.26	-82.53 LT	21+05.92	-141.57 LT	409368.881	806038.863	123'
88	940+85.29	-87.00 LT	20+77.09	69.55 RT	409373.509	806251.888	48'

RADIUS TABLE					
POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
89	939+52.89	100.000 RT	409186.412	806119.621	100'
90	939+95.74	15.213 RT	409271.230	806162.410	5'
91	939+45.81	-65.607 LT	409352.014	806112.421	100'
92	941+02.85	50.000 RT	409236.522	806269.551	50'
93	940+64.81	25.956 RT	409260.538	806231.496	5'
94	941+08.67	-46.859 LT	409333.385	806275.294	90'
95	939+64.51	122.046 RT	409164.374	806131.260	49'
96	941+06.70	136.442 RT	409150.083	806273.460	66'

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

PRE_64

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021212-PD

PLOT DATE : 10/7/2021 4:14 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

N

EXISTING R/W

SI

+5.90
39.00' LT

+55.78
27.00' LT

BAD

3'

7'

12'

STH 20 WB

STH 20 WB R/L

HMA

942+00

943+00

944+00

945+00

946+00

947+00

PI 945+50.00

CG-2

942+00EB

943+00EB

944+00EB

945+00EB

946+00EB

947+00EB

STH 20 EB

STH 20 EB PGL

+11.52
43.10' RT

+77.14
57.80' RT

EXISTING R/W

EXISTING R/W

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

PRE_65

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021213-PD

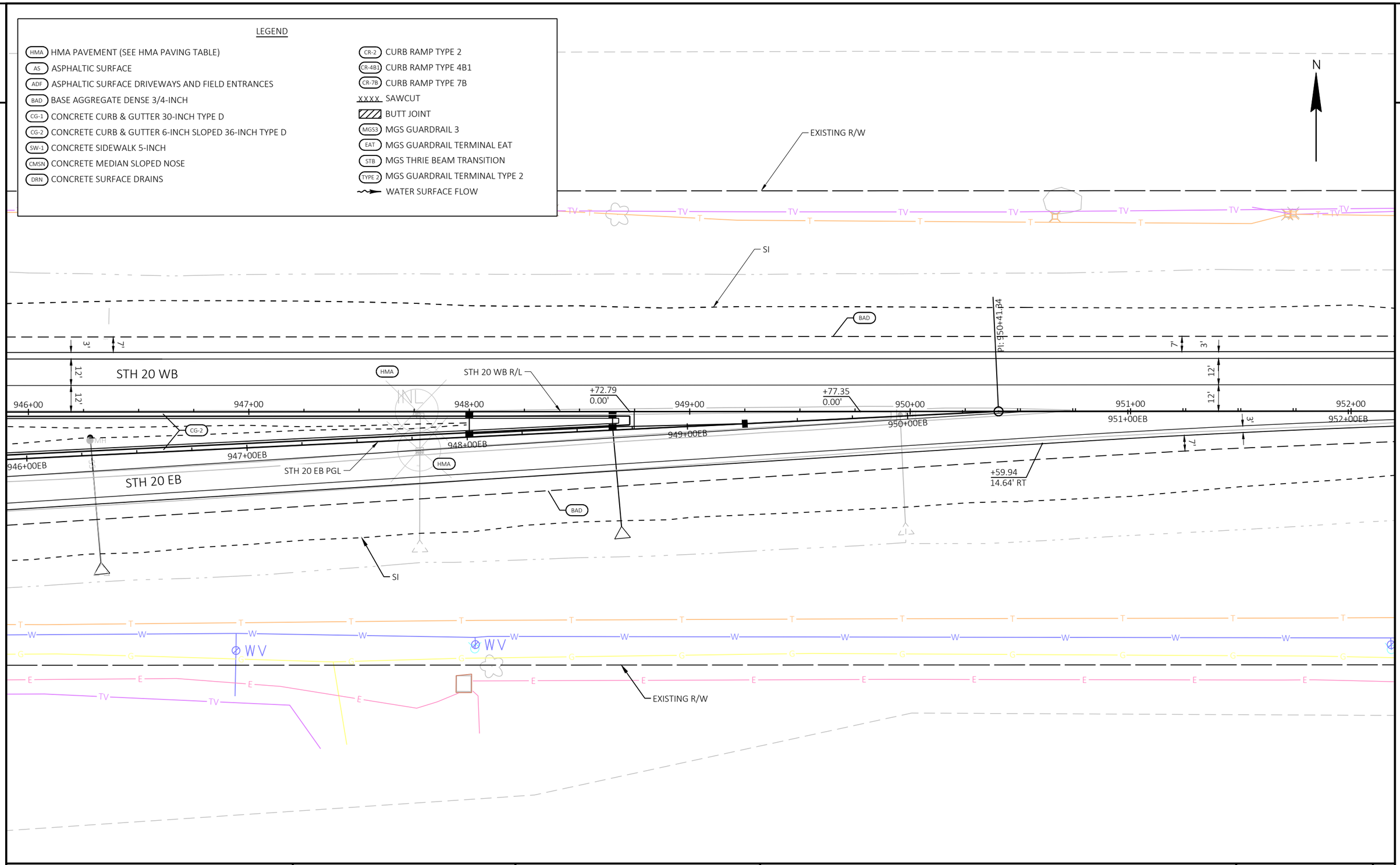
PLOT DATE : 10/7/2021 8:37 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

PRE_66

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021214-PD

PLOT DATE : 10/7/2021 1:36 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

SI

END PAVEMENT REPLACEMENT
BEGIN MILL AND RESURFACING
STA 954+30

PI: 952+28.58

BAD

+79.83
27.00' LT

+30.00
26.21' LT

7'
3'
12'
12'
HMA

STH 20

STH 20 R/L

951+00
951+00EB
952+00
952+00EB
953+00
954+00
955+00
956+00
957

3'
7'

+79.80
3.39' RT

97

+30.00
2.58' RT

BAD

END STH 20 EB PGL

SI

EXISTING R/W

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

RADIUS TABLE

POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RADIUS
97	954+20.81	5700.25 RT	409279.914	807586.941	5700.25'

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 PAVEMENT REPLACEMENT	SHEET E

PRE_67

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021215-PD

PLOT DATE : 10/7/2021 4:33 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

+66.15ES
80.14' LT

ADF

CDWY

+4.65ES
80.15' LT

+52.69ES
85.17' LT

5'

5'

2%

ADF

PROPOSED
8-INCH PVC PIPE

SW-1

+94.28ES
85.14' LT

+48.86ES
80.13' LT

10'

SI

EXISTING R/W

ADF

PROPOSED
8-INCH PVC PIPE

SI

SW-1

10'

2%

CDWY

ADF

EXISTING R/W

SI

SI

+24.25ES
78.85' LT

+95.21ES
114.92' LT

STH 20 EB PGL

62

+71.29ES
67.87' LT

SW-1

63

54

+34.24ES
51.47' LT

57

+24.25ES
21.18' LT

56

+42.25ES
24.00' LT

+28.75ES
14.00' LT

CG-1

HMA

12'

12'

CTH ES

16+00

17+00

18+00

BEGIN CONSTRUCTION
CTH ES STA 16+00

CTH ES R/L

12'

12'

CG-1

+38.02ES
24.00' RT

+11.07ES
30.35' RT

SI

EXISTING R/W

915+00EB

915+00

915+00EB

PT: 17+91.83

12'

12'

5'

12'

11'

13+00

14+00

15+00

2+00

LEGEND

HMA HMA PAVEMENT (SEE HMA PAVING TABLE)	CR-2 CURB RAMP TYPE 2
AS ASPHALTIC SURFACE	CR-4B1 CURB RAMP TYPE 4B1
ADF ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CR-7B CURB RAMP TYPE 7B
BAD BASE AGGREGATE DENSE 3/4-INCH	XXXX SAWCUT
CG-1 CONCRETE CURB & GUTTER 30-INCH TYPE D	BUTT JOINT
CG-2 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	MGS3 MGS GUARDRAIL 3
SW-1 CONCRETE SIDEWALK 5-INCH	EAT MGS GUARDRAIL TERMINAL EAT
CMSN CONCRETE MEDIAN SLOPED NOSE	STB MGS THRIE BEAM TRANSITION
DRN CONCRETE SURFACE DRAINS	TYPE 2 MGS GUARDRAIL TERMINAL TYPE 2
	WATER SURFACE FLOW

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - CTH ES PAVEMENT REPLACEMENT	SHEET E

PRE_68

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021216-PD

PLOT DATE : 11/2/2021 7:40 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

RADIUS TABLE

POINT	STATION (ALI STH 20 WB)	OFFSET (ALI STH 20 WB)	Y COORDS	X COORDS	RAD
42	917+20.49	-54.423 LT	409310.194	803886.551	
43	917+11.90	-36.000 LT	409291.642	803878.246	
44	916+91.32	-24.000 LT	409289.326	803857.702	
45	915+80.13	-223.833 LT	409477.426	803743.605	
46	917+70.56	-60.459 LT	409317.000	803936.520	
47	917+92.85	-36.000 LT	409292.887	803959.181	
48	917+57.21	-34.000 LT	409290.339	803923.579	
49	919+80.90	-229.746 LT	409489.502	804144.228	
54	916+02.96	86.000 RT	409167.980	803771.191	
55	916+38.49	84.000 RT	409170.527	803806.689	

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - CTH ES PAVEMENT REPLACEMENT	SHEET PRE_69 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021217-PD

PLOT DATE : 11/2/2021 7:40 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

XXXXXX SAWING ASPHALT

N

END PAVEMENT REPLACEMENT
BEGIN MILL AND RESURFACE
STA 954+30

EXISTING R/W

2" REMOVING ASPHALTIC SURFACE MILLING
2" HMA PAVEMENT

953+00 954+00 955+00 956+00 957+00 958+00 959+00 STH 20 960+00 961+00 962+00 963+00 964+00 965+00 966+00 967+00 968+00

STH 20 R/L

EXISTING R/W

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

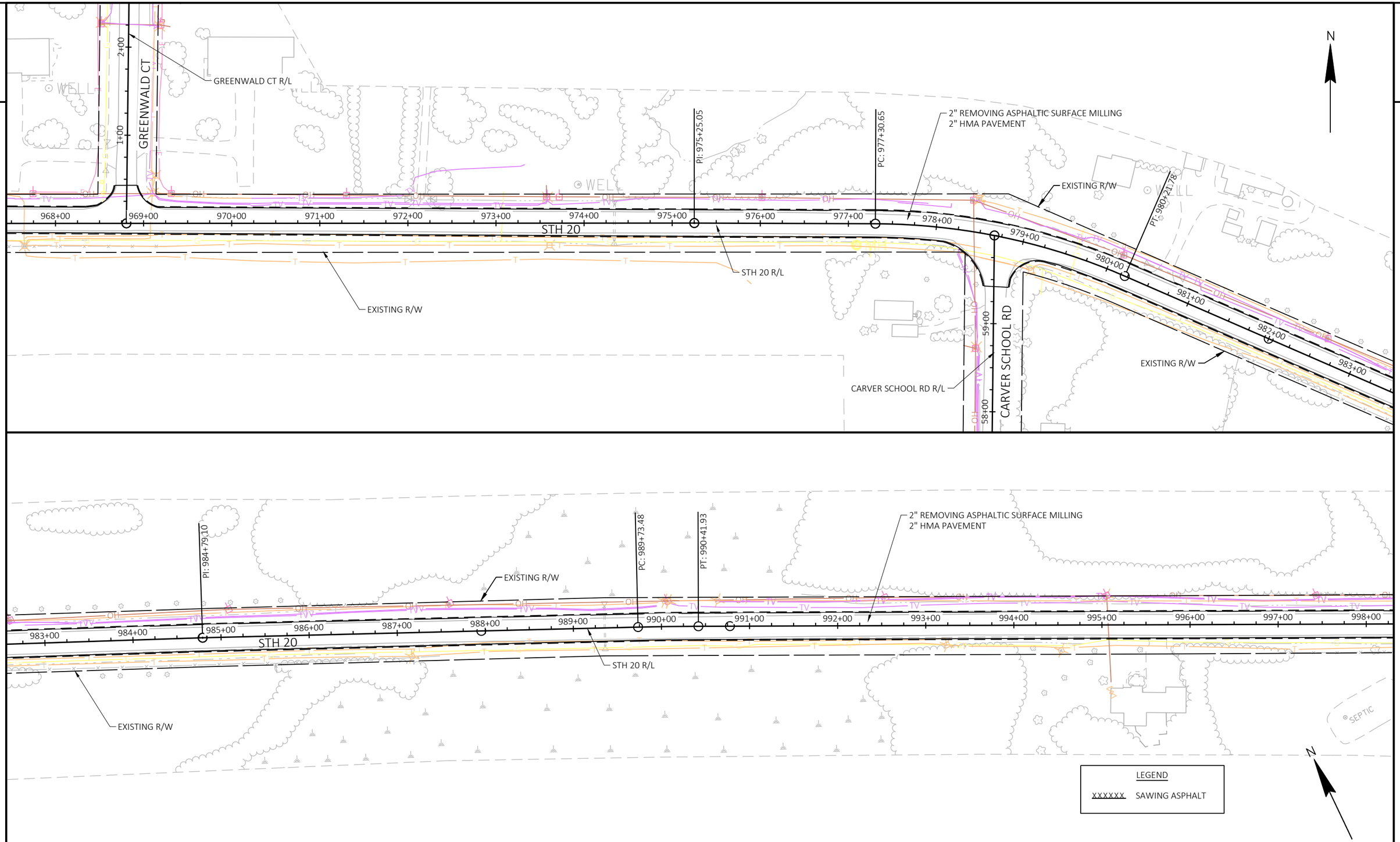
PRE_70

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021218-PD

PLOT DATE : 10/6/2021 2:14 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

2



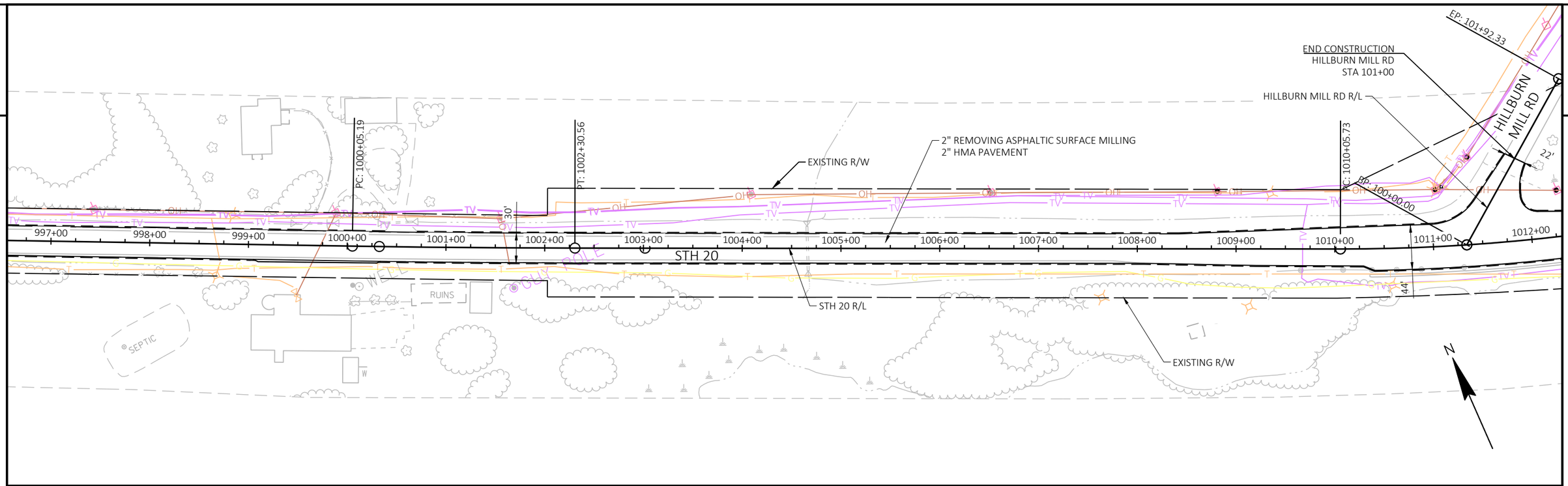
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_71

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021219-PD

PLOT DATE : 10/7/2021 11:11 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44



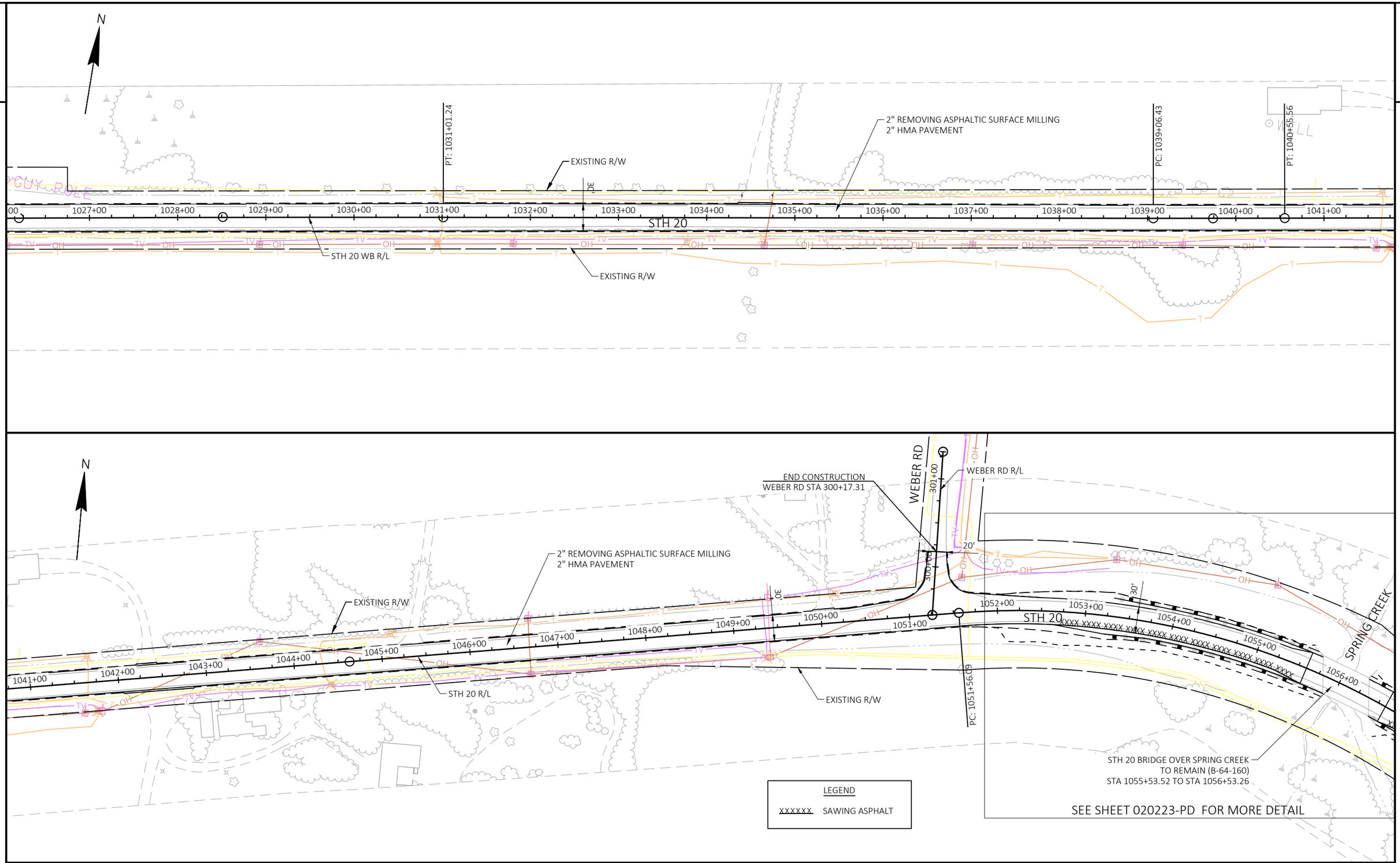
2

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021220-PD

PLOT DATE : 10/6/2021 1:32 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_73

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021221-PD

PLOT DATE : 10/6/2021 1:21 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

STH 20 BRIDGE OVER SPRING CREEK
TO REMAIN (B-64-160)
STA 1055+53.52 TO STA 1056+53.26

PT: 1060+00.49

SIGN

GUY POLE

EXISTING R/W

END CONSTRUCTION
OAK HILLS DR STA 50+82

OAK HILLS DR

OAK HILLS RD R/L

PC: 1065+30.56

PT: 1069+74.30

25'

30'

STH 20

STH 20 R/L

SPRING CREEK

EXISTING R/W

2" REMOVING ASPHALTIC SURFACE MILLING
2" HMA PAVEMENT

BP: 50+00.00

1056+00 1057+00 1058+00 1059+00 1060+00 1061+00 1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00 1069+00 1070+00 1071+00

SEE SHEET 021224-PD FOR MORE DETAIL

EXISTING R/W

PC: 1072+80.56

PT: 1077+30.43

2" REMOVING ASPHALTIC SURFACE MILLING
2" HMA PAVEMENT

PC: 1085+36.46

30'

STH 20

STH 20 R/L

1071+00 1072+00 1073+00 1074+00 1075+00 1076+00 1077+00 1078+00 1079+00 1080+00 1081+00 1082+00 1083+00 1084+00 1085+00 1086+00

LEGEND

XXXXXX SAWING ASPHALT

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_74

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021222-PD

PLOT DATE : 10/6/2021 1:09 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

N

WEBER RD

301+00

300+00

WEBER RD R/L

END CONSTRUCTION
WEBER RD STA 300+18

EXISTING R/W

20'

BARRIER SYSTEM GRADING
SHAPING FINISHING

+5.46
-18.67' LT

+30.00
-27.00' LT

POST 1
+30, 21' LT

POST 9
+80, 19' LT

30'

15'

15'

EAT

MGS3

STB

SI

STH 20

HMA

1051+00

1052+00

1053+00

1054+00

1055+00

1056+00

+63.00
15.00' RT

+58.00
16.00' RT

PC: 1051+56.09

+23.00
27.00' RT

POST 1
+23, 21' RT

POST 9
+73, 19' RT

+25.00
15.00' RT

+59.13
-19.00' LT

+59.03
19.00' RT

SPRING CREEK

STH 20 R/L

EXISTING R/W

STH 20 BRIDGE OVER SPRING CREEK
TO REMAIN (B-64-160)
STA 1055+53.52 TO STA 1056+53.26

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_75

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021223-PD

PLOT DATE : 10/6/2021 12:59 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

STH 20 BRIDGE OVER SPRING CREEK
TO REMAIN (B-64-160)
STA 1055+53.52 TO STA 1056+53.26

BARRIER SYSTEM GRADING
SHAPING FINISHING

1056+00

+58.64
-19.00' LT

+58.96
19.00' RT

+90.00
15.00' RT

1057+00

1058+00

1059+00

1060+00

1061+00

STB

MGS3

EAT

HMA

SPRING CREEK

EXISTING R/W

POST 9
+68, 19' LT

POST 1
+18, 21' LT

+18.00
-27.00' LT

POST 9
+50, 19' RT

+0.00
27.00' RT

POST 1
+00, 21' RT

+60.00
15.00' RT

+65.00
16.00' RT

SI

15'

PT: 1060+00.49

STH 20

STH 20 R/L

SIGN

OH

G

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

N

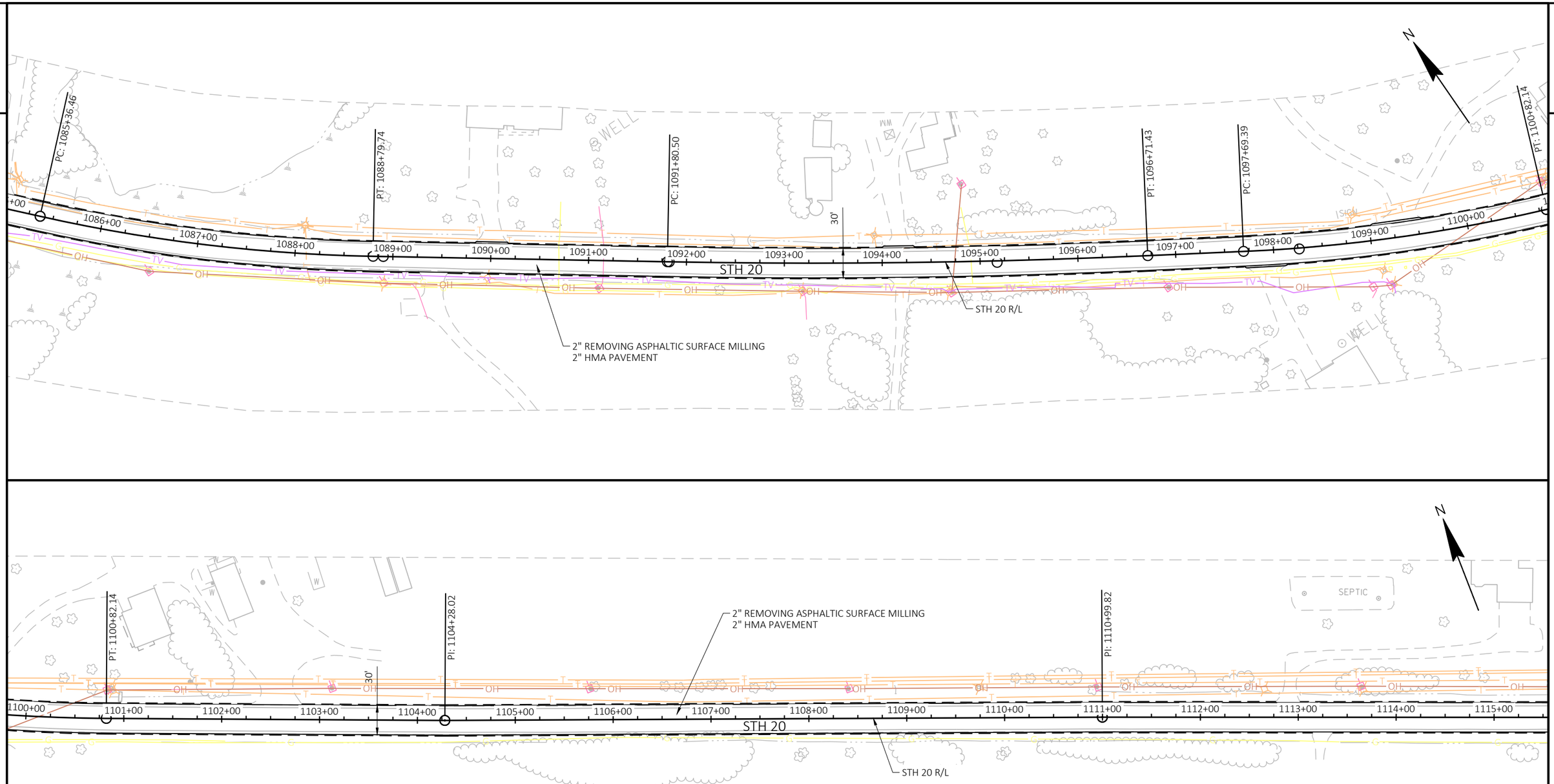
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021224-PD

PLOT DATE : 10/6/2021 12:49 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_76

WISDOT/CADDS SHEET 42



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_77

2

2

N

BELL SCHOOL RD

PI: 1123+20.25

PI: 1129+49.09

END CONSTRUCTION
BELL SCHOOL RD STA 50+75

EXISTING R/W

BEGIN CONSTRUCTION
BELL SCHOOL RD STA 49+48

BELL SCHOOL RD R/L

1115+00 1116+00 1117+00 1118+00 1119+00 1120+00 1121+00 1122+00 1123+00 1124+00 1125+00 1126+00 1127+00 1128+00 1129+00 1130+00

STH 20

30'

25'

23'

48'

EXISTING R/W

STH 20 R/L

2" REMOVING ASPHALTIC SURFACE MILLING
2" HMA PAVEMENT

EXISTING R/W

PI: 1129+49.09

EXISTING R/W

1130+00 1131+00 1132+00 1133+00 1134+00 1135+00 1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00 1143+00 1144+00 1145+00

STH 20

30'

2" REMOVING ASPHALTIC SURFACE MILLING
2" HMA PAVEMENT

STH 20 R/L

PC: 1136+98.73

PCC: 1139+33.44

PI: 1142+00.61

CANOPY

SEE SHEET 021228-PD FOR MORE DETAIL

SEE SHEET 021229-PD FOR MORE DETAIL

EXISTING R/W

LEGEND

xxxxxx SAWING ASPHALT

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

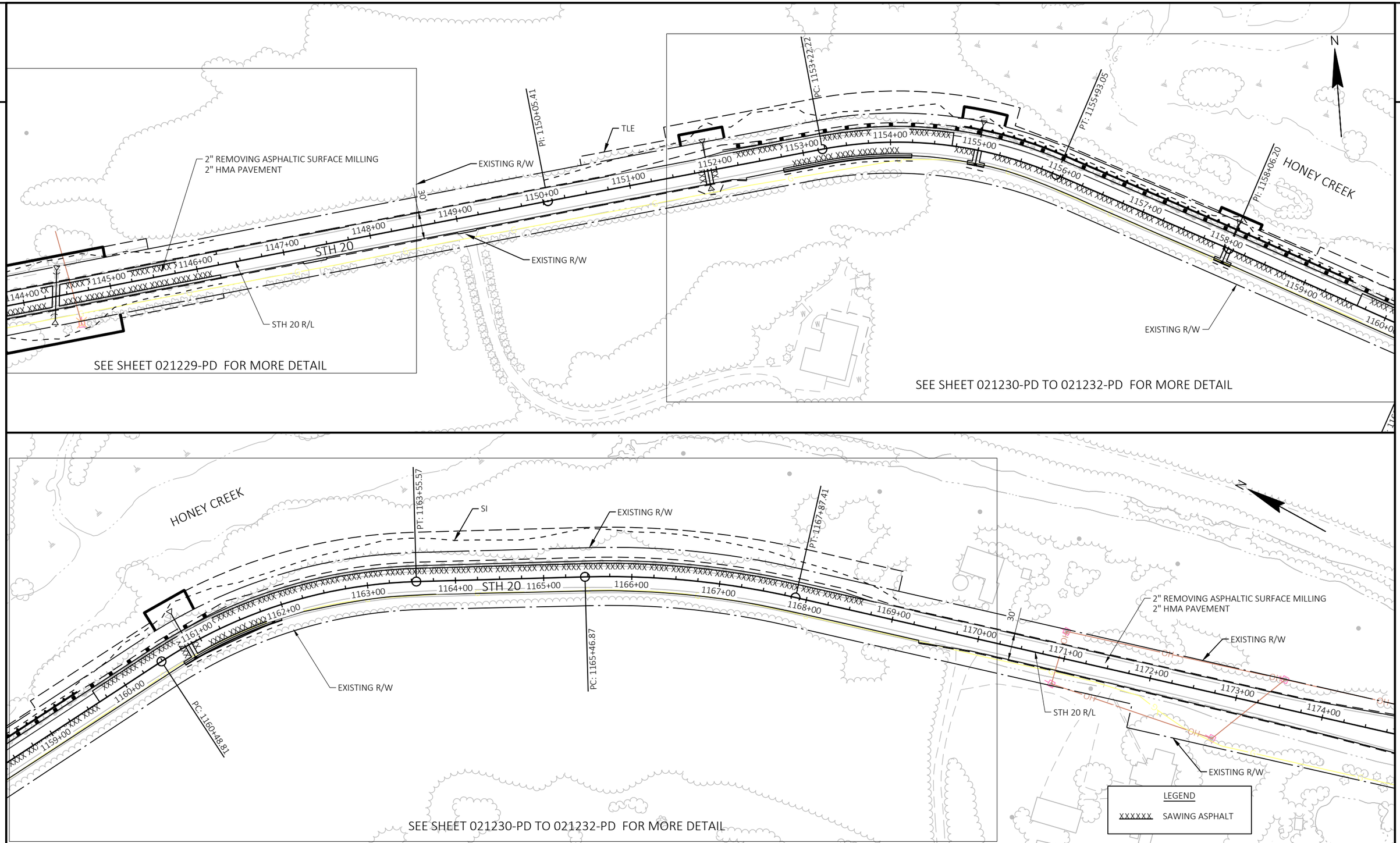
PRE_78

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021226-PD

PLOT DATE : 10/6/2021 12:25 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_79

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021227-PD

PLOT DATE : 10/6/2021 11:18 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

N

STH 20

1134+00

1135+00

1136+00

1137+00

1138+00

1139+00

1140+00

HMA

EXISTING R/W

EXISTING R/W

SI

SI

CULVERT REPLACEMENT
SEE REMOVAL AND STORM SEWER PLANS
FOR MORE INFORMATION

8'

PC: 1136+98.73

PCC: 1139+33.44

15'

15'

STH 20 R/L

WELL

CANOPY

W

W

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_80

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021228-PD

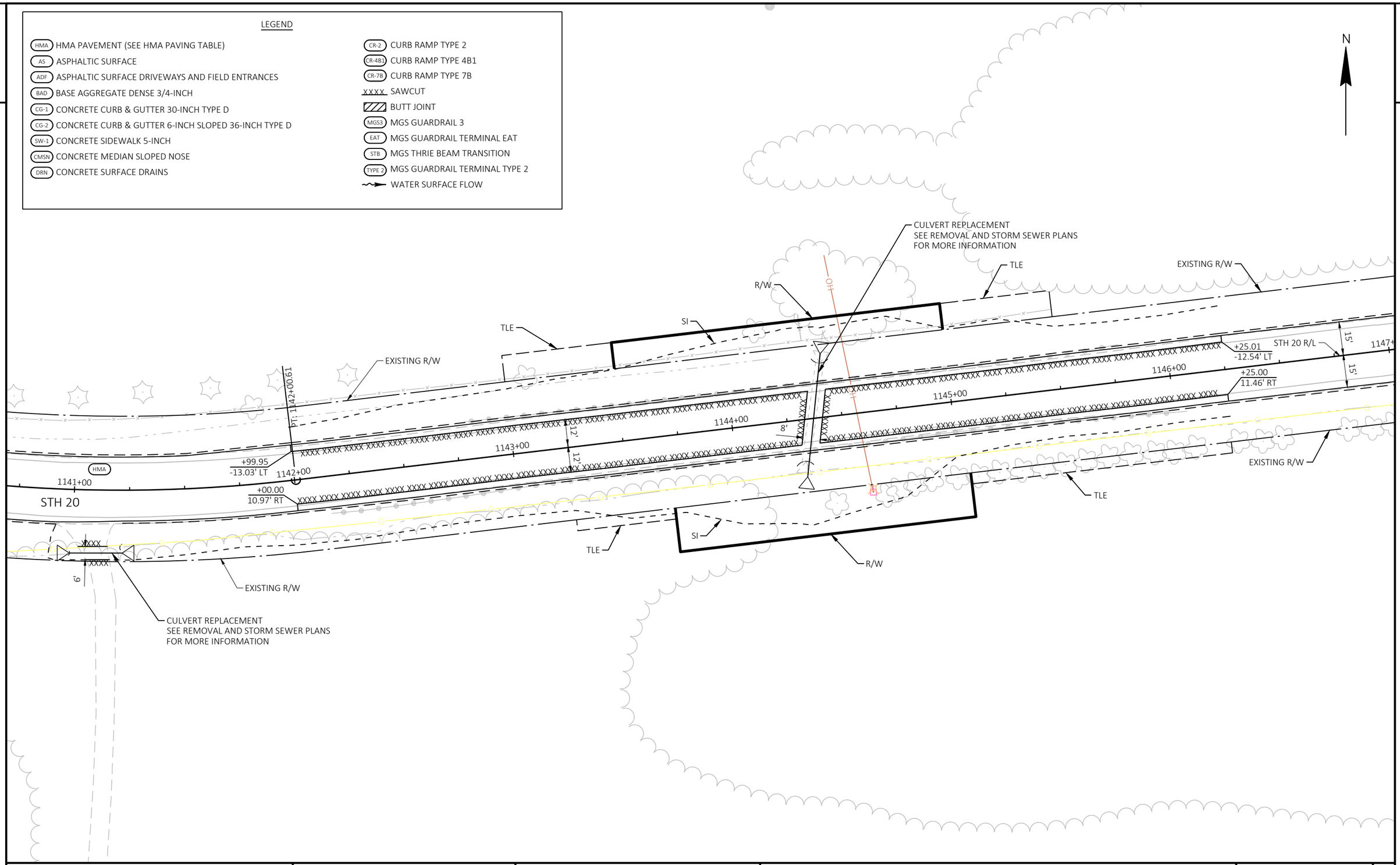
PLOT DATE : 10/6/2021 11:03 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_81

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021229-PD

PLOT DATE : 10/6/2021 7:52 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

R/W

POST 1
+10.56, 20' LT

SI

EXISTING R/W

TLE

POST 9
+60.56, 18' LT

PC: 1153+22.22

+80.00
-24.00' LT

R/W

EXISTING R/W

+70.00
-15.00' LT

R-51-82

+10.56
-25.88' LT

EAT

PI: 1150+05.41

15'

1154+00

+70.00
0.00'

+80.56
-16.00' LT

+80.56
-15.00' LT

1153+00

+10.56
-18.00' LT

+24.75
13.19' RT

1152+00

+74.80
13.27' RT

1155+00

1151+00

+94.00
0.00'

+96.00
0.00'

MGS3

HMA

+86.00
0.00'

STH 20 R/L

CG-1

+4.00
0.00'

1150+00

STH 20

SI

+90.41
13.39' RT

SI

+10.48
13.31' RT

PI: 1155+93.05

1156+00

SI

CG-1

EXISTING R/W

CULVERT REPLACEMENT
SEE REMOVAL AND STORM SEWER PLANS
FOR MORE INFORMATION

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

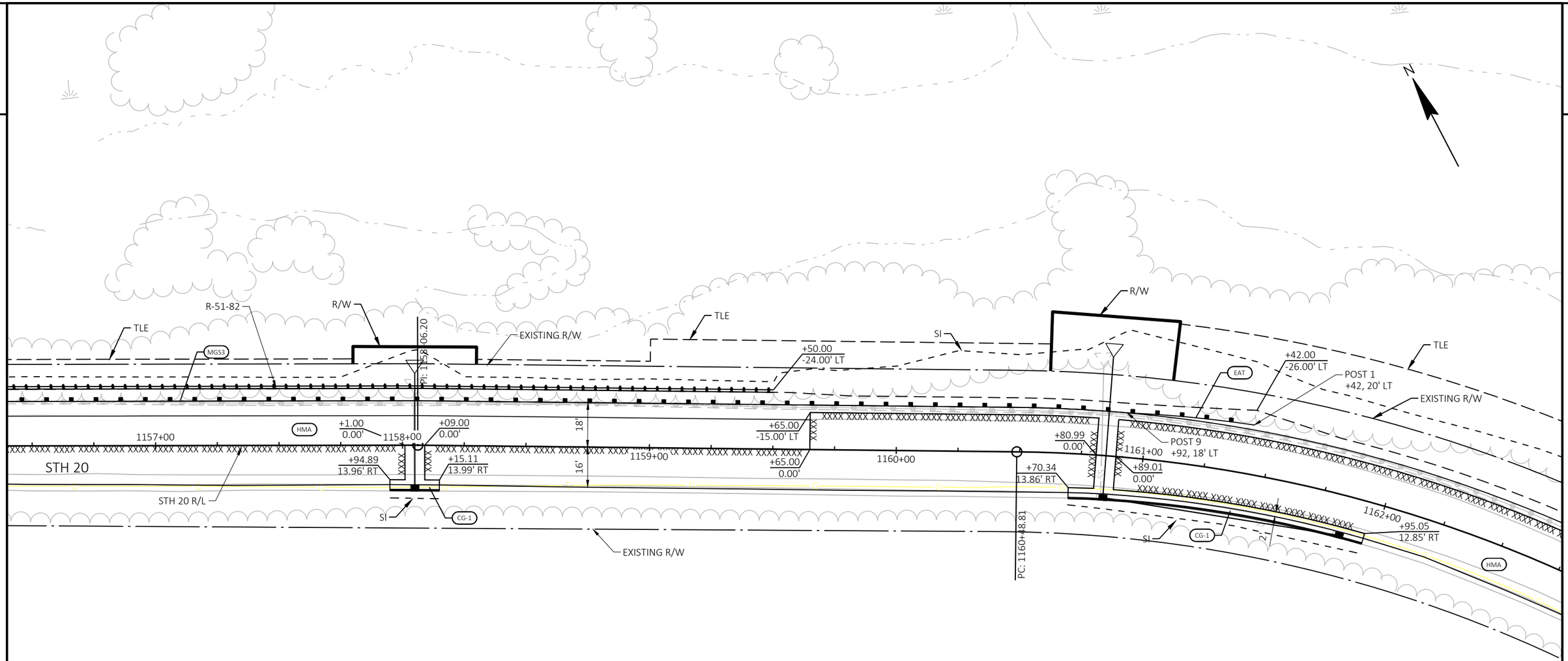
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_82

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021230-PD

PLOT DATE : 10/6/2021 7:41 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

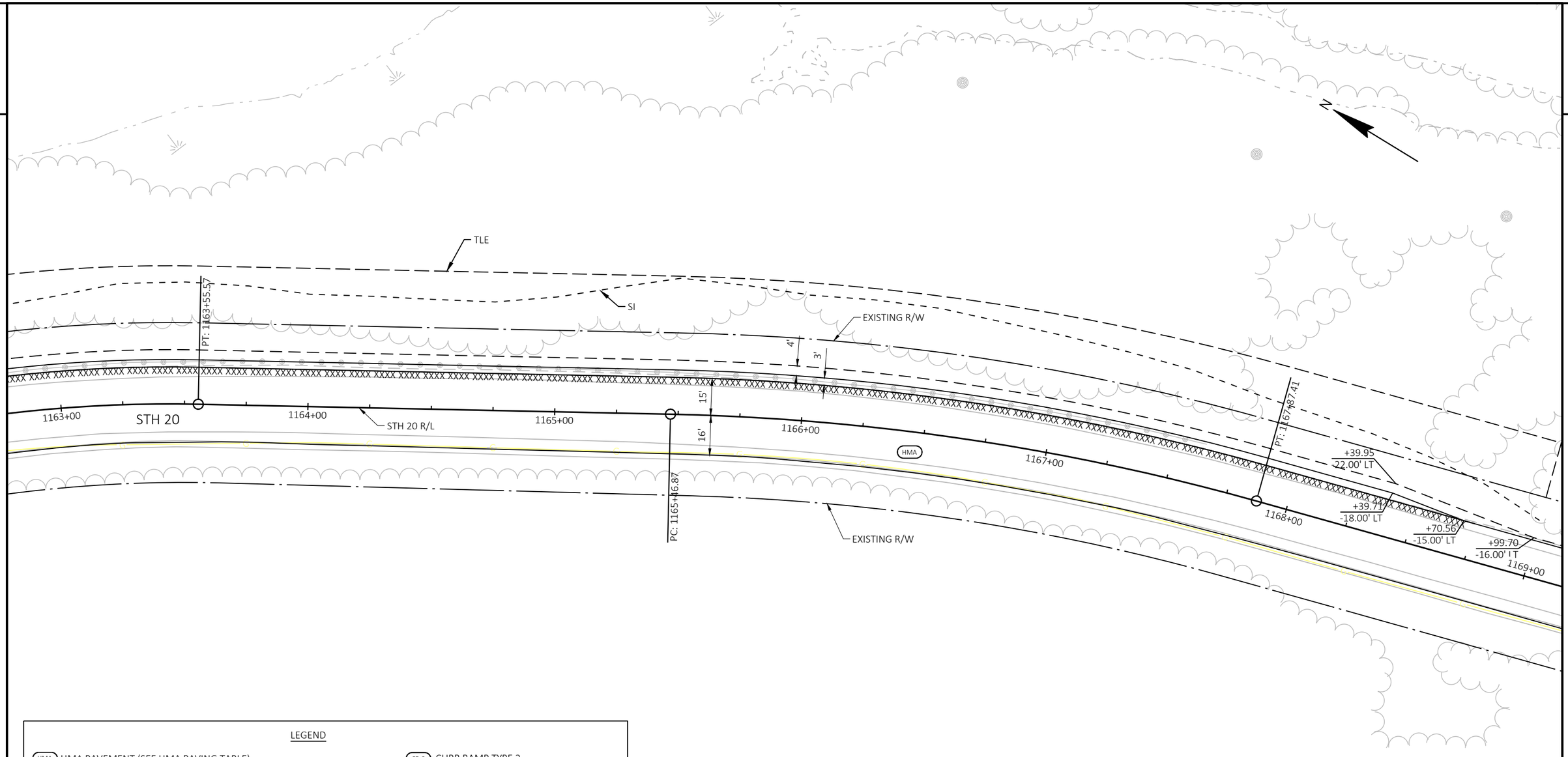
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_83

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021231-PD

PLOT DATE : 10/6/2021 7:27 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

PRE_84

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021232-PD

PLOT DATE : 10/6/2021 7:18 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

SEE SHEET 021234-PD FOR MORE DETAIL

SEE SHEET 021235-PD FOR MORE DETAIL

SEE SHEET 021235-PD FOR MORE DETAIL

EXISTING R/W

PC: 1175+28.26

PIT: 1177+66.07

PC: 1180+31.41

PIT: 1181+75.74

2" REMOVING ASPHALTIC SURFACE MILLING
2" HMA PAVEMENT

PI: 1183+88.06

EXISTING R/W
STH 20 R/L

SHOULDER WIDENING AND GRADING WORK

PC: 1187+48.95

PCC: 1189+30.91

1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00 1183+00 1184+00 1185+00 1186+00 1187+00 1188+00 1189+00

STH 20

HONEY CREEK

HONEY CREEK

GULLY PC

WISCONSIN CENTRAL LIMITED RAILROAD

STH 20 BRIDGE OVER HONEY CREEK
TO REMAIN (B-51-85)
STA 1178+64.74 TO STA 1179+32.22
REPLACE BEAM GUARD

EXISTING AT-GRADE RAILROAD CROSSING
NO WORK PROPOSED

EXISTING R/W

MILLER RD R/L

BEGIN CONSTRUCTION
MILLER RD STA 48+45

MILLER RD

48+00 49+00 50+00

INL

OH

W

G

XXXX XXXX XXXX XXXX

30'

LEGEND

XXXXXX SAWING ASPHALT

HIGH FRICTION SURFACE TREATMENT

N

SHOULDER WIDENING AND GRADING WORK

PC: 1187+48.95

PCC: 1189+30.91

SI

PCC: 1191+12.20

PT: 1192+43.12

1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00 1198+00 1199+00 1200+00 1201+00 1202+00 1203+00 1204+00

EP: 50

BP: 50+63

STH 20

RUINS

2" REMOVING ASPHALTIC SURFACE MILLING
2" HMA PAVEMENT

EXISTING R/W

PI: 1197+91.01

HONEY CREEK RD N

HONEY CREEK RD N R/L

BEGIN CONSTRUCTION
HONEY CREEK RD N STA 50+63

52'

24'

30'

STH 20 R/L

END PROJECT
STA 1203+10

EXISTING R/W

BEGIN CONSTRUCTION
HONEY CREEK RD S STA 49+32

HONEY CREEK RD S R/L

HONEY CREEK RD S

49+00 50+00

26'

FOUND

LEGEND

XXXXXX SAWING ASPHALT

HIGH FRICTION SURFACE TREATMENT

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

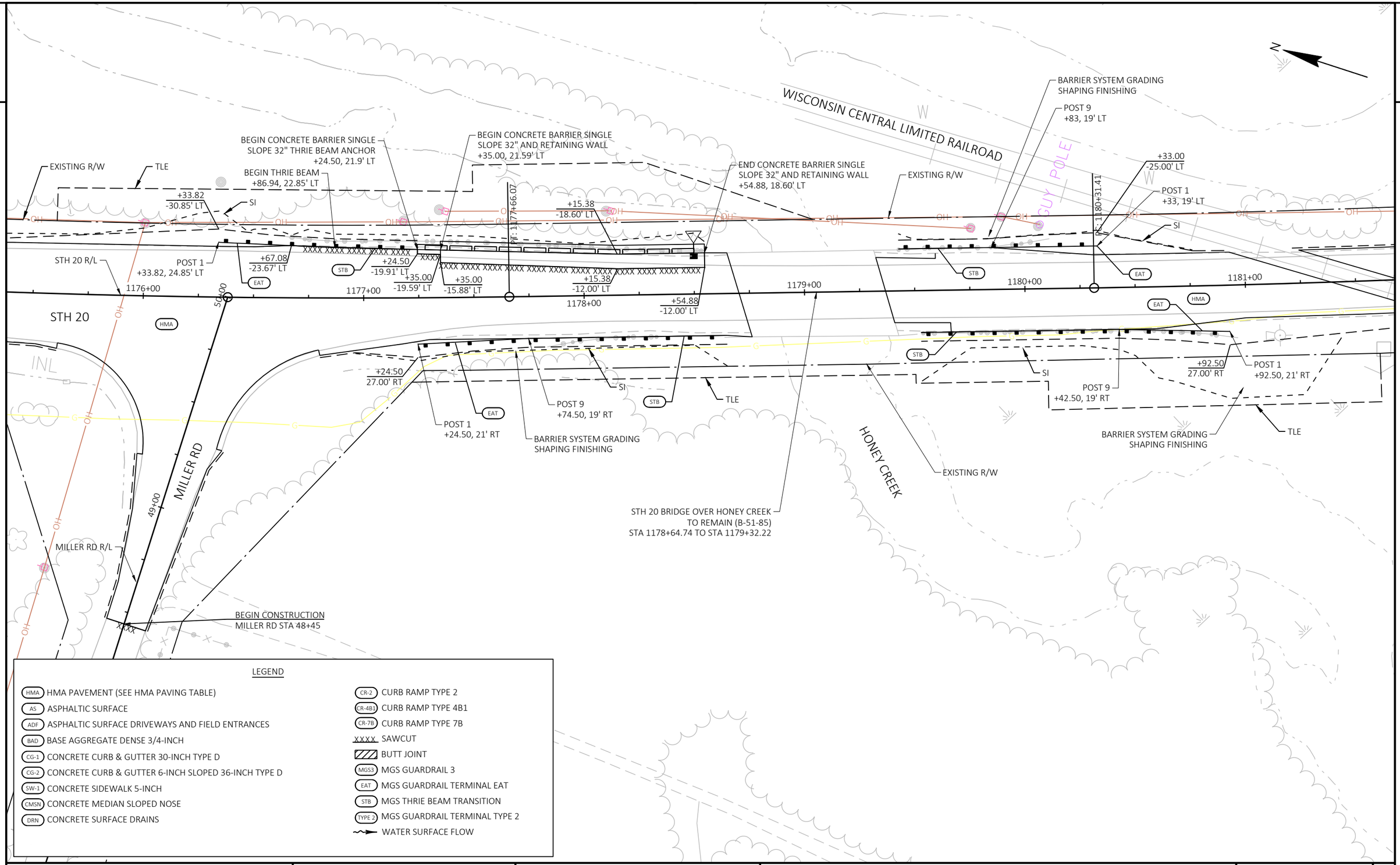
PRE_85

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021233-PD

PLOT DATE : 10/12/2021 12:51 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2



LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

LEGEND

- HMA — HMA PAVEMENT (SEE HMA PAVING TABLE)
- AS — ASPHALTIC SURFACE
- ADF — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- BAD — BASE AGGREGATE DENSE 3/4-INCH
- CG-1 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CG-2 — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- SW-1 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- DRN — CONCRETE SURFACE DRAINS
- CR-2 — CURB RAMP TYPE 2
- CR-4B1 — CURB RAMP TYPE 4B1
- CR-7B — CURB RAMP TYPE 7B
- XXXX — SAWCUT
- BUTT JOINT
- MGS3 — MGS GUARDRAIL 3
- EAT — MGS GUARDRAIL TERMINAL EAT
- STB — MGS THRIE BEAM TRANSITION
- TYPE 2 — MGS GUARDRAIL TERMINAL TYPE 2
- WATER SURFACE FLOW

N

STH 20

STH 20 R/L

+44.11
-15.00' LT

1186+00

1187+00

HMA

+19.00
0.00'

+28.95
12.00' RT

+48.95
17.00' RT

TLE

SI

1188+00

1189+00

1190+00

1191+00

1192+00

PC: 1187+48.95

PCC: 1189+30.91

PCC: 1191+12.20

PT: 1192+43.12

+75.00
-15.00' LT

EP: 50+09.05

50+00

+8.59
12.00' RT

EXISTING R/W

HIGH FRICTION
SURFACE TREATMENT

EXISTING ASPHALT SWALE
TO REMAIN

BEGIN CONSTRUCTION
HONEY CREEK RD S STA 49+32

49+00

HONEY CREEK RD S

HONEY CREEK RD S R/L

48+00

36'

26'

15'

15'

12'

5'

2'

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN DETAILS - STH 20 RESURFACING	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021235-PD

PLOT DATE : 10/6/2021 6:23 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_87

WISDOT/CADDS SHEET 42

2

FRONTAGE ROAD

STH 20

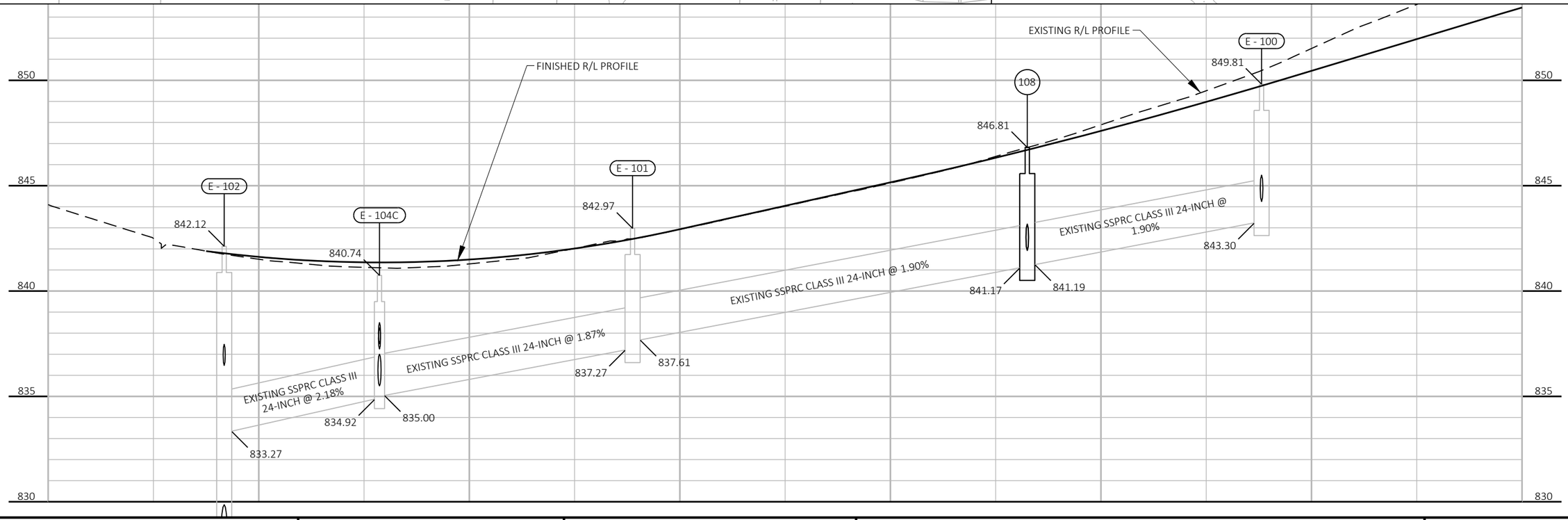
884+00 EB
885+00 EB
886+00 EB
887+00 EB
888+00 EB
889+00 EB
890+00 EB
891+00 EB

STH 20 WB RL
STH 20 EB PGL
EDWARDS STREET RL
EDWARDS STREET
XXXX XXXX
CARC

106 STA 885+66, 18.5' LT INLETS 2x3-H-S
105 STA 885+91, 18.5' LT INLETS 2x3-H
104 STA 886+16, 18.5' LT INLETS 2x3-H
103 STA 885+41, 18.5' LT INLETS 2x3-H
E - 101 STA 886+78, 6.6' RT MANHOLES 6-J
E - 100 STA 889+76, 11.5' RT MANHOLES 6-J
102 STA 885+90, 24.8' RT INLETS 2x3-H
101 STA 885+40, 21.1' RT INLETS 2x3-H
100 STA 885+65, 22.9' RT INLETS 2x3-H-S
E - 104C STA 885+57, 21.3' RT INLETS 4-C
108 STA 888+65, 8.5' RT MANHOLES 6-J
107 STA 888+65, 32.5' RT INLETS 2x3-H
109 STA 889+80, 32.5' RT INLETS 2x3-H

EXISTING R/W
R/W
TLE
EXISTING R/W
TLE
R/W
TLE
EXISTING R/W

N

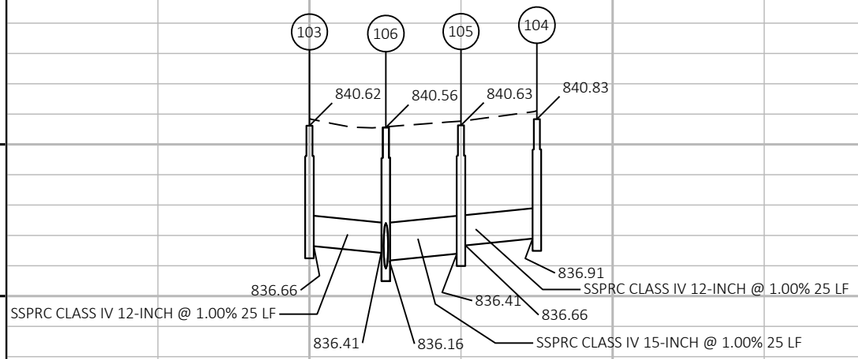


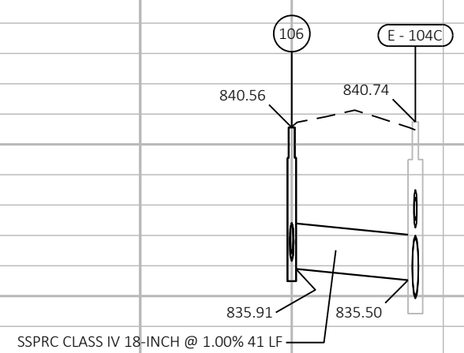
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

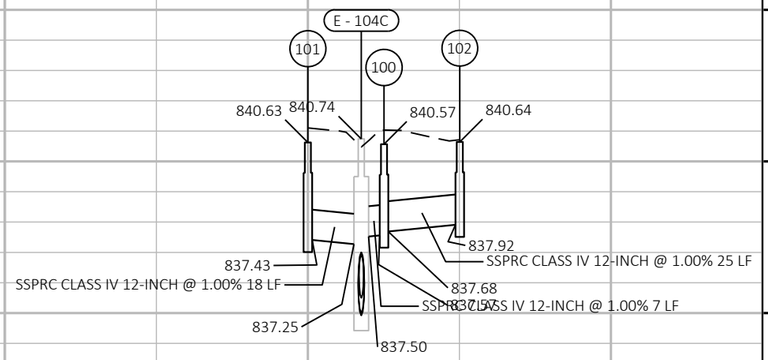
PRE_88

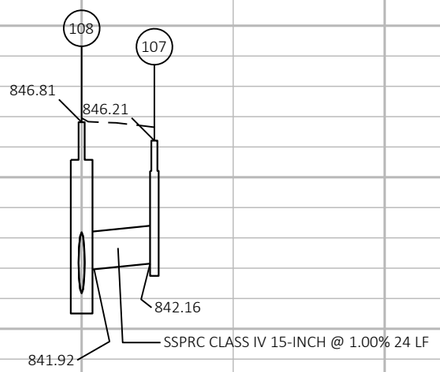
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-SS

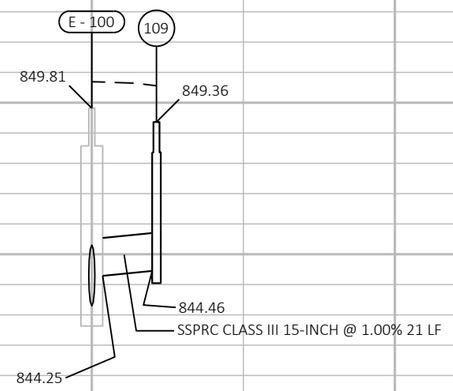
PLOT DATE : 9/14/2021 10:33 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT











PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_89

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022502-SS

PLOT DATE :

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

2

2

N

EAST DRIVE RL

11+00

STA 893+75, 18.5' LT
INLETS 4-H
202

TLE

R/W

EXISTING R/W

STA 896+75, 9.2' RT
MANHOLES 6-J
E - 201

STA 896+50, 18.5' LT
INLETS 2x3-H
200

207 STA 896+90, 18.5' LT
CATCH BASINS 5-H-S

206 STA 897+15, 18.5' LT
INLETS 2x3-H

STH 20 WB RL

891+00

892+00

893+00

894+00

895+00

896+00

897+00

898+00

893+00 EB

894+00 EB

891+00 EB

892+00 EB

STH 20 EB PGL

895+00 EB

STH 20

896+00 EB

897+00 EB

898+00 EB

STA 894+55, 12.5' RT
MANHOLES 6-J
205

TLE

EXISTING R/W

STA 894+39, 64.3' RT
INLETS 4-H-S
204

203 STA 894+74, 63.6' RT
INLETS 2x3-H-S

EXISTING R/W

STA 896+50, 32.5' RT
INLETS 2x3-H
208

209 STA 897+29, 32.9' RT
INLETS 2x3-H

210 STA 896+90, 32.6' RT
CATCH BASINS 6-H-S

TLE

9+00

BYRNES STREET RL

EXISTING R/L PROFILE

FINISHED R/L PROFILE

205

856.86

850.80

E - 201

855.52

850.54

850.33

EXISTING SSPRC CLASS III 24-INCH @ 0.12%

EXISTING SSPRC CLASS III 24-INCH @ 0.53%

860

855

850

845

840

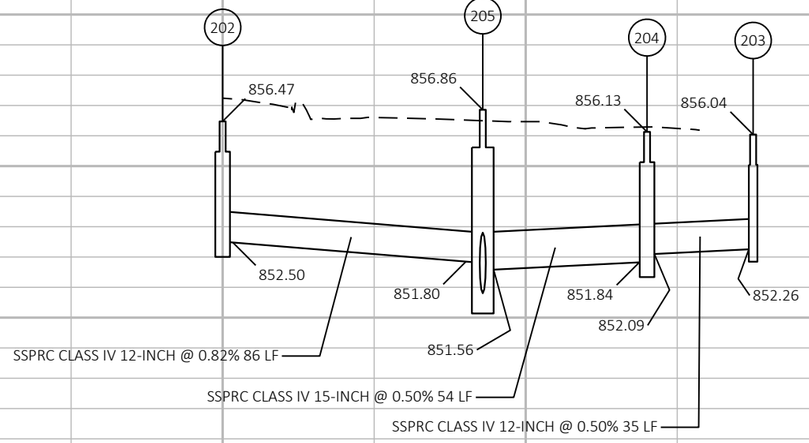
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

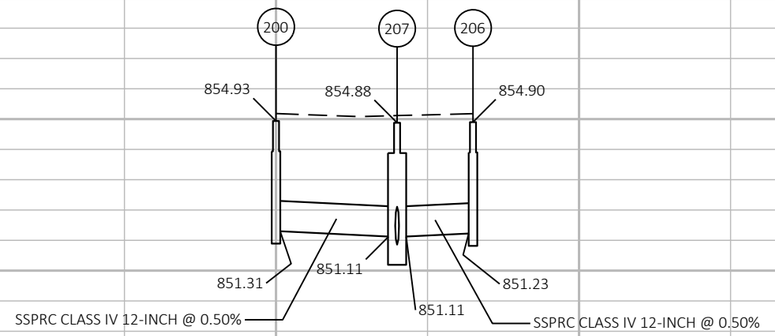
PRE_90

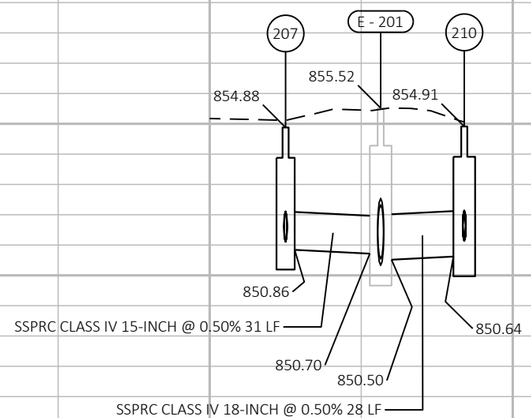
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022503-SS

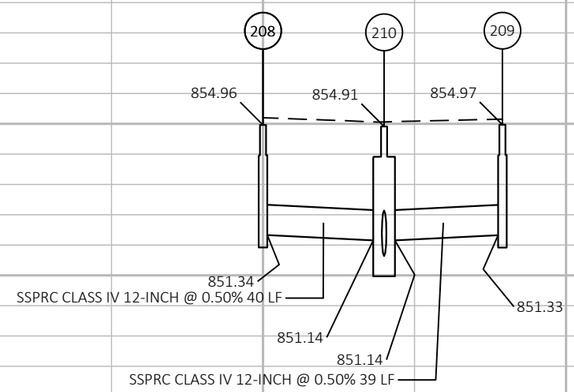
PLOT DATE : 9/14/2021 10:34 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 41









860 855 850 845 840

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_91

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022504-SS

PLOT DATE :

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

STERLING CIRCLE RL

STERLING CIRCLE

51+00

TLE

R/W

EXISTING R/W

STA 901+10, 13.8' RT
INLETS 4-H-S
215

STA 899+92, 12.4' RT
INLETS 2x3-H
214

211 STA 899+10, 1.5' RT
INLETS 4-H

STA 902+91, 1.5' RT
INLETS 4-H-S
218

217 STA 902+91, 30.5' LT
INLETS 4-H-S

216 STA 904+25, 40.9' LT
INLETS 4-H-S

STH 20

STH 20 WB RL

898+00 | 899+00 | 900+00 | 901+00 | 902+00 | 903+00 | 904+00 | 905+00

898+00 EB | 899+00 EB | 900+00 EB | 901+00 EB | 902+00 EB | 903+00 EB | 904+00 EB | 905+00 EB

STH 20 EB PGL

STA 902+88, 36.9' RT
INLETS 4-H
220

E - 202 STA 903+46, 20.5' RT
MANHOLES 6-C

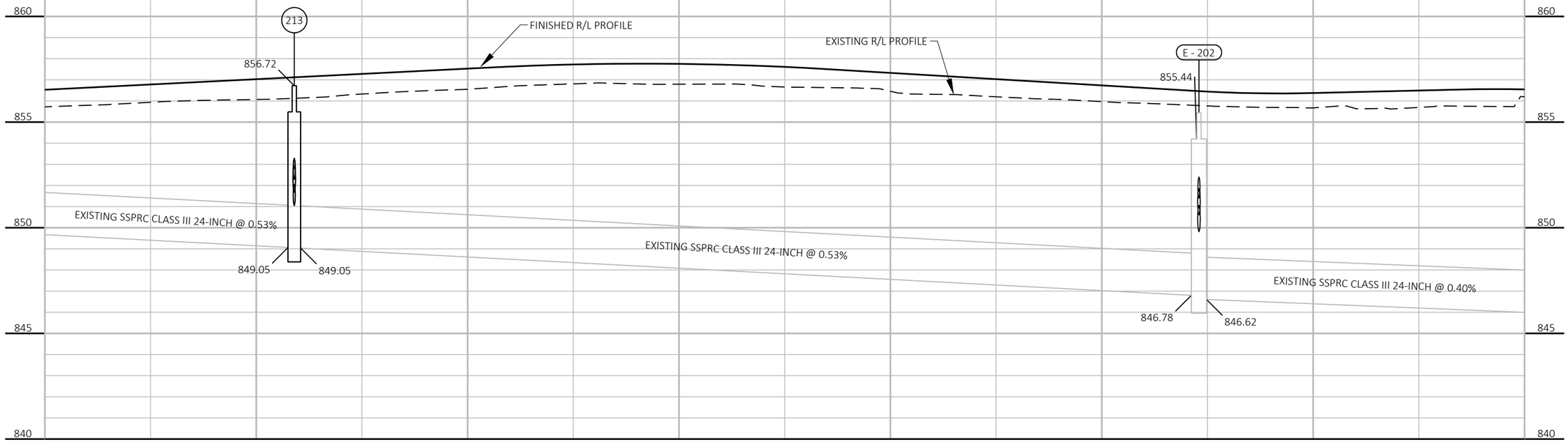
STA 897+29, 32.9' RT
INLETS 2x3-H

213 STA 899+18, 13.3' RT
MANHOLES 5-J

212 STA 899+10, 15.9' RT
INLETS 4-H

STA 902+75, 68.5' RT
INLETS 2x3-H
219

STA 906+02, 99.2' RT
APRON ENDWALLS F

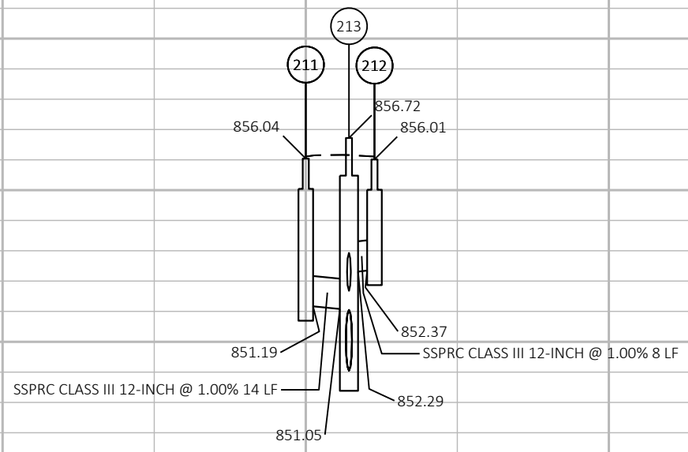


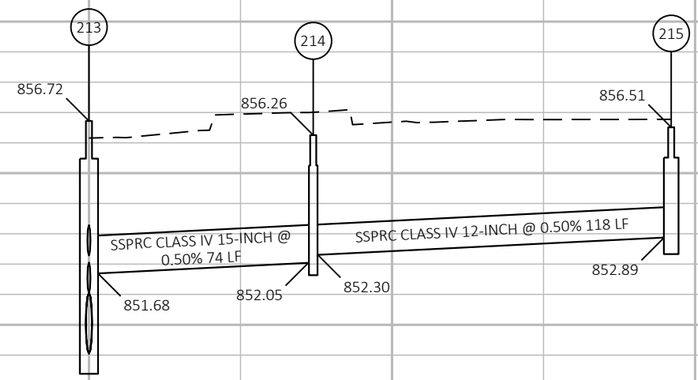
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

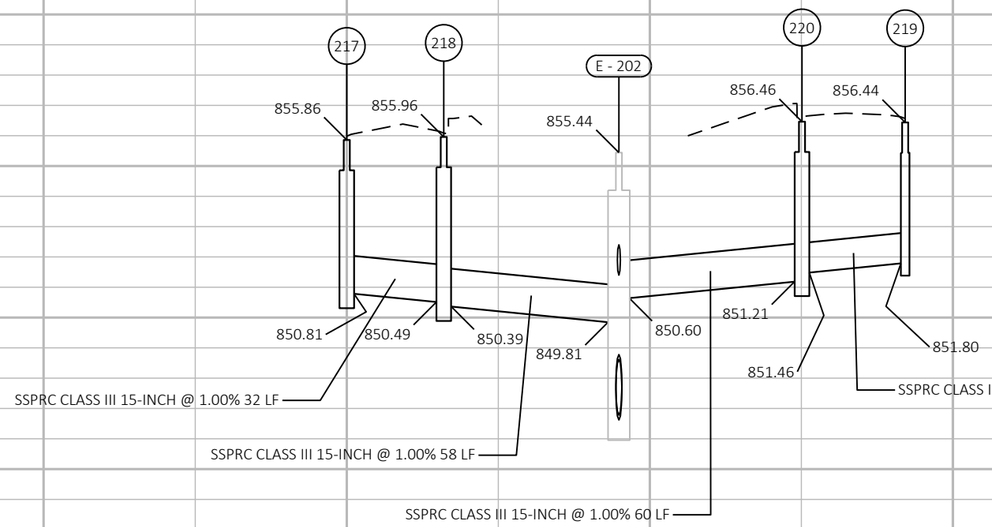
PRE_92

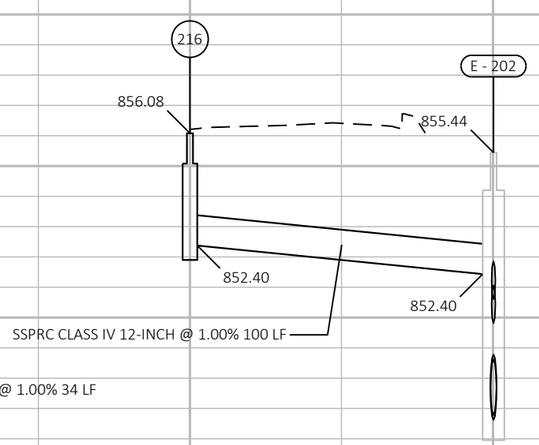
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022505-SS

PLOT DATE : 9/14/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT









PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_93

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022506-SS

PLOT DATE :

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 20

STH 20 WB RL

STH 20 EB PGL

EXISTING R/W

STA 906+27, 50.6' LT
INLETS 3-C
E - 203A

STA 906+27, 41.1' LT
Null Structure
E - 203B

STA 908+64, 30.5' LT
INLETS 2x3-H
222

STA 909+25, 30.5' LT
INLETS 4-H-S
224

223
STA 909+75, 30.5' LT
INLETS 2x3-H

STA 912+29, 15.2' RT
INLETS 4-H
234

905+00
906+00
907+00
908+00
909+00
910+00
911+00
912+00

E - 203
STA 906+28, 20.0' RT
MANHOLES 6-C

221
STA 906+57, 31.7' RT
INLETS 4-H-S

STA 908+75, 1.5' RT
INLETS 2x3-H
225

STA 909+25, 1.5' RT
CATCH BASINS 5-H-S
226

E - 204
STA 909+27, 21.4' RT
MANHOLES 6-C

STA 911+35, 10.0' RT
INLETS 4-H-S
233

STA 908+50, 43.5' RT
INLETS 2x3-H
230

232
STA 909+50, 43.5' RT
CATCH BASINS 6-H

STA 912+30, 21.8' RT
MANHOLES 6-C
E - 205

905+00 EB
906+00 EB
907+00 EB
908+00 EB
909+00 EB
910+00 EB
911+00 EB
912+00 EB

STA 906+62, 106.1' RT
APRON ENDWALLS FOR CPRC 21-INCH
CULVERT 1A A

CULVERT 1A B
STA 907+10, 105.3' RT
APRON ENDWALLS FOR CPRC 21-INCH

STA 909+00, 43.5' RT
INLETS 2x3-H-S
231

STA 912+28, 38.4' RT
INLETS 4-H
235

STA 906+00, 74.0' RT
INLETS 2x3-H
259

STA 906+02, 99.2' RT
APRON ENDWALLS FOR CPRC 15-INCH
260

STA 906+62, 110.6' RT
APRON ENDWALLS FOR CPRC 21-INCH
CULVERT 1B A

CULVERT 1B B
STA 907+10, 109.9' RT
APRON ENDWALLS FOR CPRC 21-INCH

228
STA 909+92, 86.3' RT
INLETS 2x3-H

227
STA 908+83, 7.6' RT
INLETS 2x3-H

229
STA 909+35, 81.7' RT
CATCH BASINS 5-H-S

STA 911+09, 120.5' RT
APRON ENDWALLS FOR CPRC 36-INCH
261

EXISTING R/W
TLE
REMOVE 15-INCH CORRUGATED PLASTIC PIPE TO 114' RT
SALVAGE AEW AND INSTALL AT 114' RT
TLE
R/W
TLE
EXISTING R/W

860
855
850
845
840

E - 203
852.62
845.48
845.29

E - 204
850.07
843.66
843.40

EXISTING R/L PROFILE
FINISHED R/L PROFILE
EXISTING SSPRC CLASS III 24-INCH @ 0.40%
EXISTING SSPRC CLASS III 24-INCH @ 0.55%
EXISTING SSPRC CLASS III 30-INCH @ 0.56%

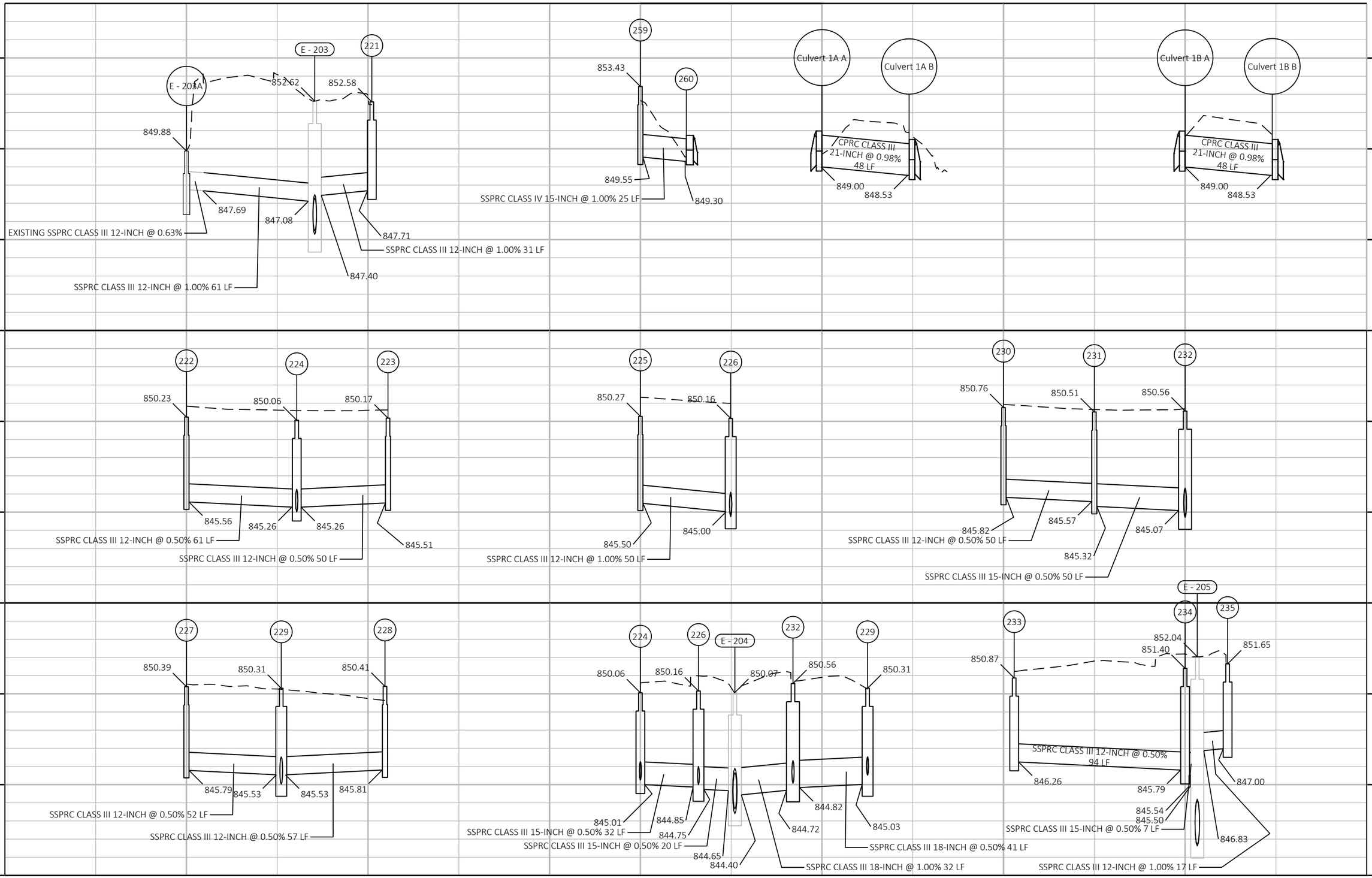
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_94

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022507-SS

PLOT DATE : 8/31/2021 9:47 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 41



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_95

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022508-SS

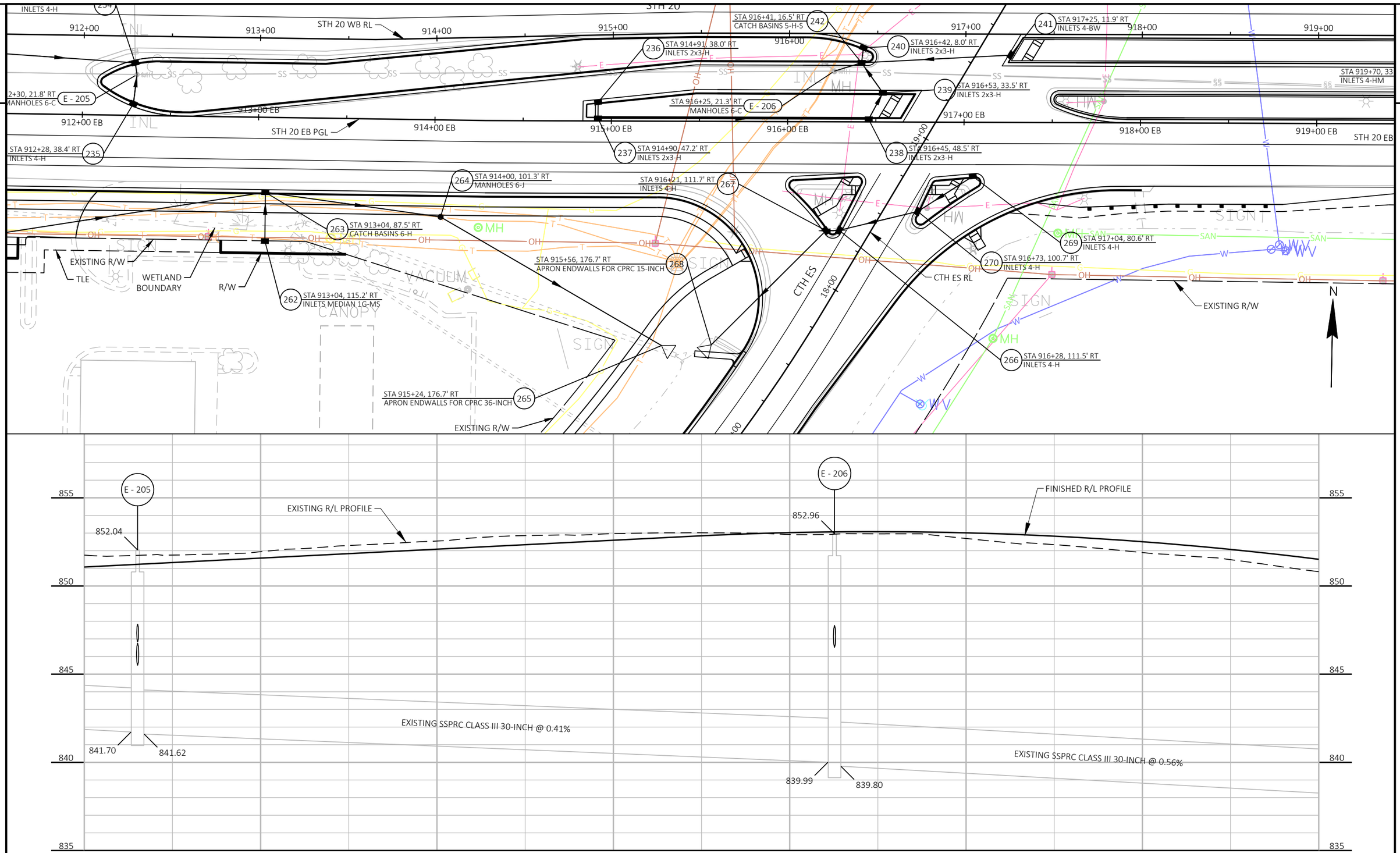
PLOT DATE :

PLOT BY : GUENETTE, JEFFREY J

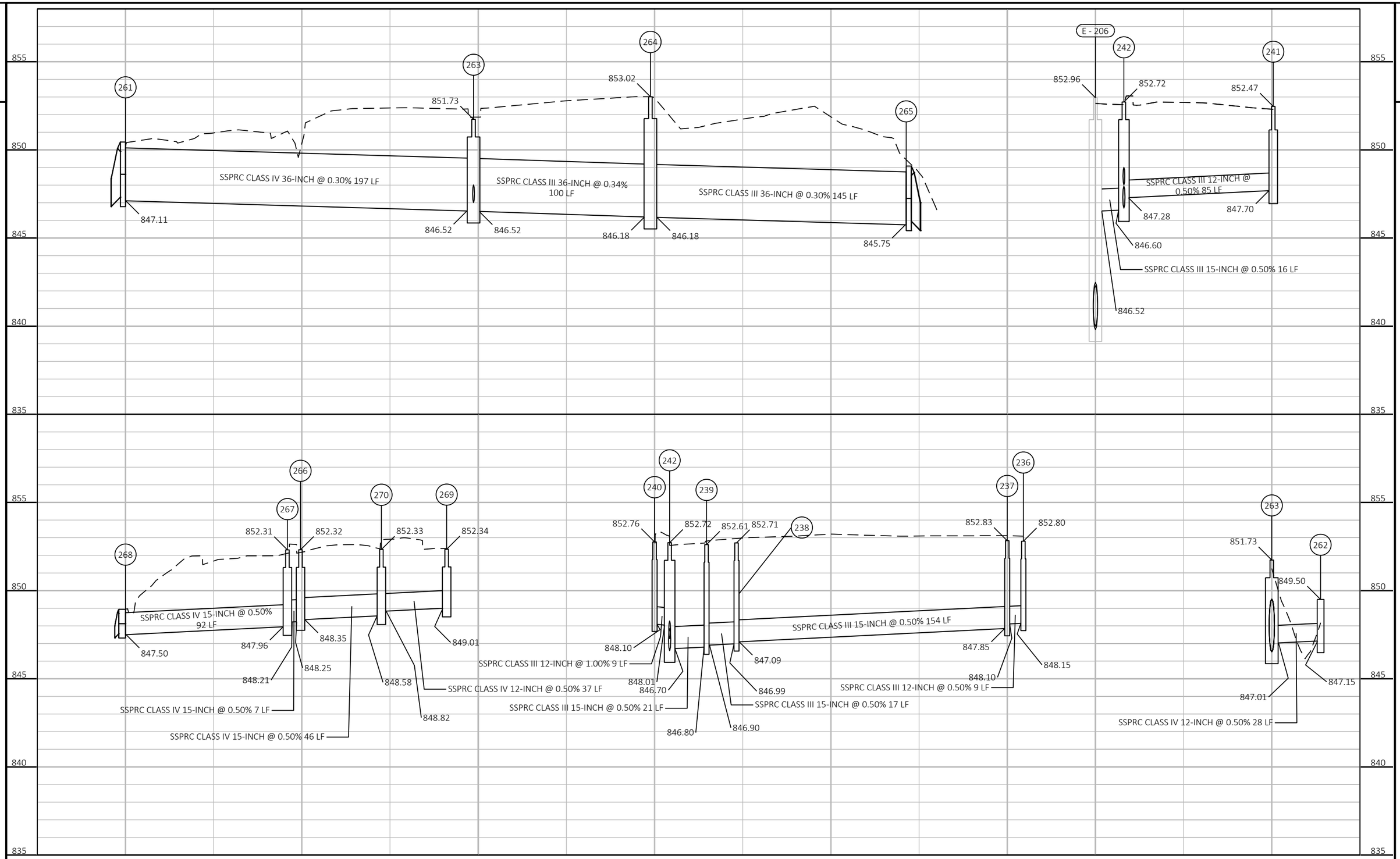
PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022510-SS

PLOT DATE :

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

PRE_97

WISDOT/CADDS SHEET 42

2

2

EXISTING R/W

STA 15+70
CTH ES 3
SSPC 8-INCH REQUIRED

CTH ES RL

EXISTING R/W

STA 13+62
CTH ES 2
SSPC 8-INCH REQUIRED

STA 12+90
CTH ES 1
SSPC 8-INCH REQUIRED

CTH ES

15+00

14+00

N

855
850
845
840
835

850.28
12+90.05 88.83 LT

850.00
12+90.63 75.65 LT

CTH ES 1
SSPC 8-INCH @ 2.11% 13 LF

850.16
13+61.72 88.68 LT

850.04
13+61.72 76.14 LT

CTH ES 2
SSPC 8-INCH @ 1.00% 13 LF

849.19
15+70.00 83.67 LT

848.92
15+70.00 70.20 LT

CTH ES 3
SSPC 8-INCH @ 2.00% 13 LF

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_98

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022511-SS

PLOT DATE : 8/31/2021 9:49 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 41

EXISTING R/W

CTH ES RL

CTH ES

22+00

21+00

20+00

FILLER CAPS

SIGN

N

EXISTING R/W

STA 917+22, 49.8' LT
INLETS 4-H
244

STA 917+15, 54.3' LT
INLETS 2x3-H
243

STA 21+06
Culvert 2
CPRCHE CLASS HE-III 19x30-INCH REQUIRED

245 STA 917+66, 58.7' LT
INLETS 4-H

248 STA 918+31, 68.7' LT
APRON ENDWALLS FOR CPRC 15-INCH

247 STA 917+92, 41.4' LT
INLETS 4-H

246 STA 917+89, 32.3' LT
INLETS 2x3-H

TLE

EXISTING R/W

STH 20

STH 20 WB RL

913+00 914+00 915+00 916+00 917+00 918+00 919+00 920+00

STA 916+41, 16.5' RT
CATCH BASINS 5-H-S
242

236 STA 914+91, 38.0' RT
INLETS 2x3-H

240 STA 916+42, 8.0' RT
INLETS 2x3-H

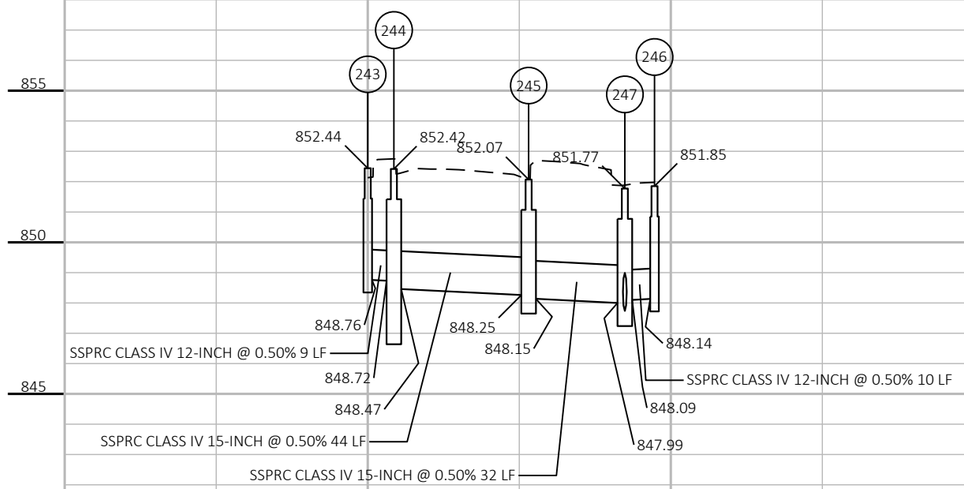
241 STA 917+25, 11.9' RT
INLETS 4-BW

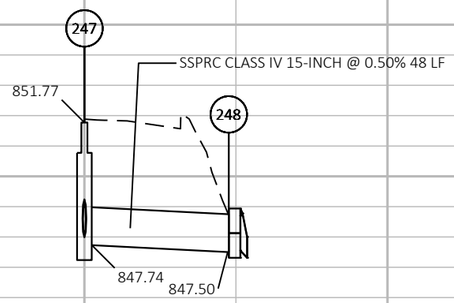
STA 920+60, 1.5' RT
INLETS 2x3-HM
251

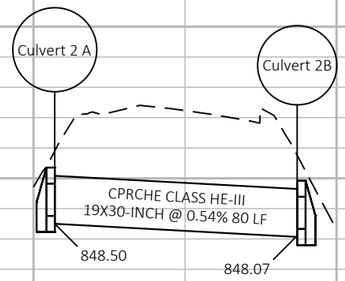
239 STA 916+53, 33.5' RT
INLETS 2x3-H

STA 919+70, 33.5' RT
INLETS 4-HM
250

E - 207 STA 919+78, 29.7' RT
MANHOLES 6-C







PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_99

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022512-SS

PLOT DATE : 8/31/2021 9:50 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

248 STA 918+31, 68.7' LT
APRON ENDWALLS FOR CPRC 15-INCH

247 STA 917+92, 41.4' LT
INLETS 4-H

246 STA 917+89, 32.3' LT
INLETS 2x3-H

N

STA 924+09, 64.8' LT
APRON ENDWALLS FOR CPRC 30-INCH E - 209

I-43 SB OFFRAMP

I-43 SB OFFRAMP RL

755+00

STA 920+60, 1.5' RT
INLETS 2x3-HM 251

STH 20

STH 20 WB RL

STA 924+23, 1.5' RT
INLETS 2x3-HM 255

256 STA 924+61, 3.2' RT
INLETS 4-HM

919+00 920+00 921+00 922+00 923+00 924+00 925+00 926+00

STA 924+10, 26.1' RT
MANHOLES 6-C E - 210

258 STA 924+69, 25.5' RT
CATCH BASINS 6-HM

STA 919+70, 33.5' RT
INLETS 4-HM 250

E - 207 STA 919+78, 29.7' RT
MANHOLES 6-C

STA 921+78, 14.1' RT
INLETS 4-HM 253

252 STA 920+60, 11.1' RT
INLETS 4-HM

E - 208 STA 921+79, 28.0' RT
MANHOLES 6-C

919+00 EB 920+00 EB 921+00 EB 922+00 EB 923+00 EB 924+00 EB 925+00 EB 926+00 EB

STH 20 EB PGL

249 STA 919+70, 48.5' RT
INLETS 2x3-HM

STA 921+78, 48.5' RT
INLETS 2x3-HM 254

STA 924+50, 48.5' RT
INLETS 4-HM 257

I-43 SB ONRAMP RL

EXISTING R/W

STA 923+77, 128.3' RT
APRON ENDWALLS FOR CPRC 36-INCH E - 211

754+00

I-43 SB ONRAMP

E - 207

E - 208

E - 210

258

FINISHED R/L PROFILE

EXISTING R/L PROFILE

850 845 840 835 830

848.95

846.21

841.99

841.76

EXISTING SSPRC CLASS III 30-INCH @ 0.97%

837.82

837.76

835.82

835.77

SSPRC CLASS III 36-INCH @ 0.16% 231 LF

836.68

836.09

835.41

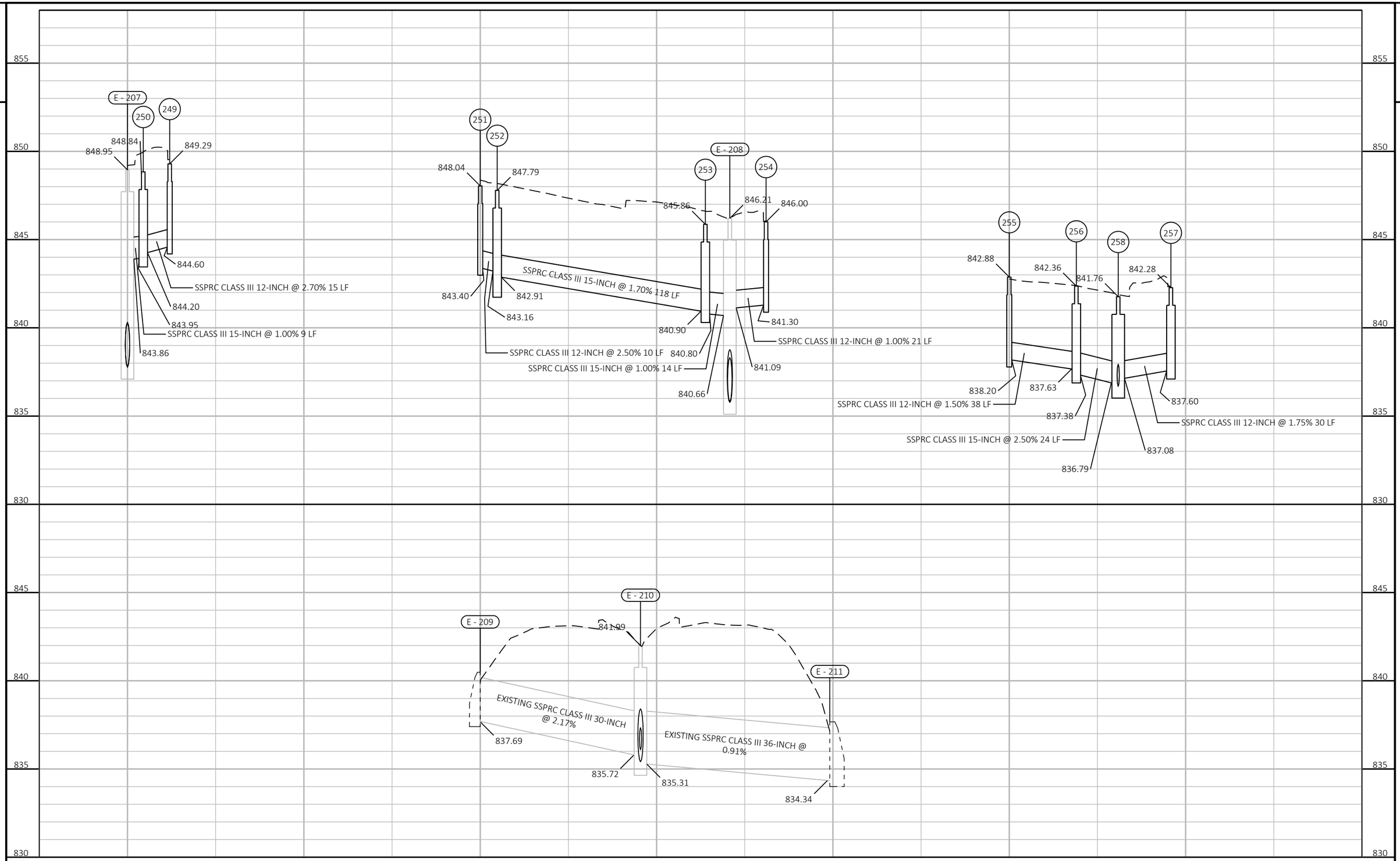
EXISTING SSPRC CLASS III 30-INCH @ 0.56%

SSPRC CLASS III 15-INCH @ 1.00% 60 LF

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_100

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022513-SS
PLOT DATE : 8/31/2021 9:50 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022514-SS

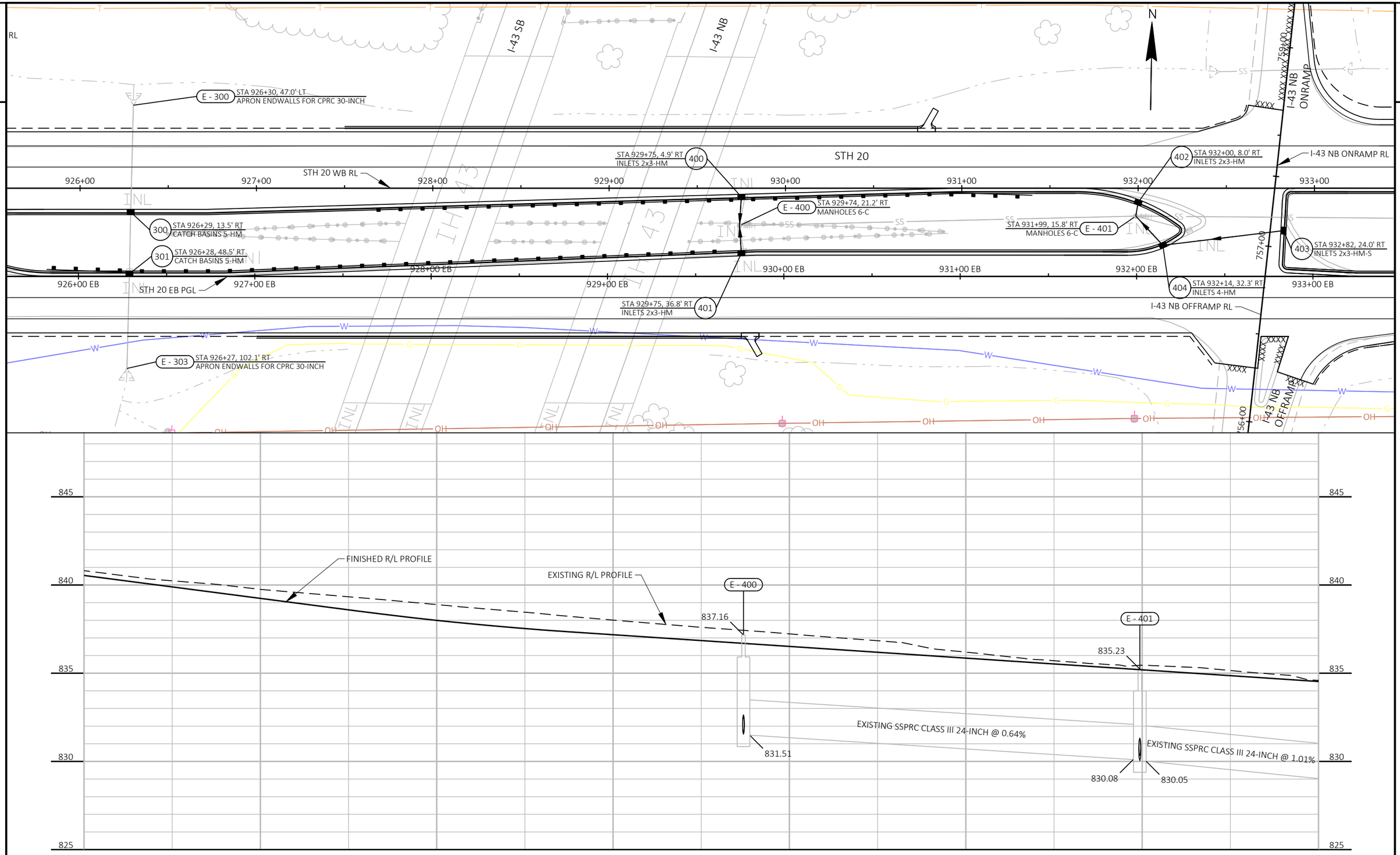
PLOT DATE :

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

PRE_101

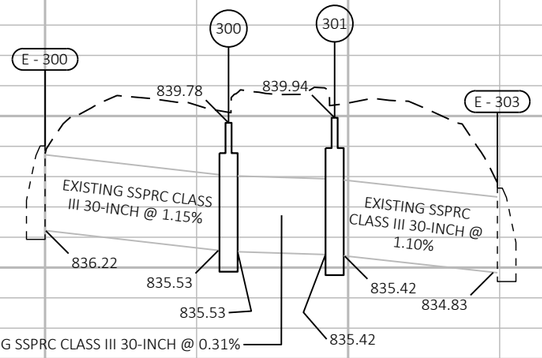


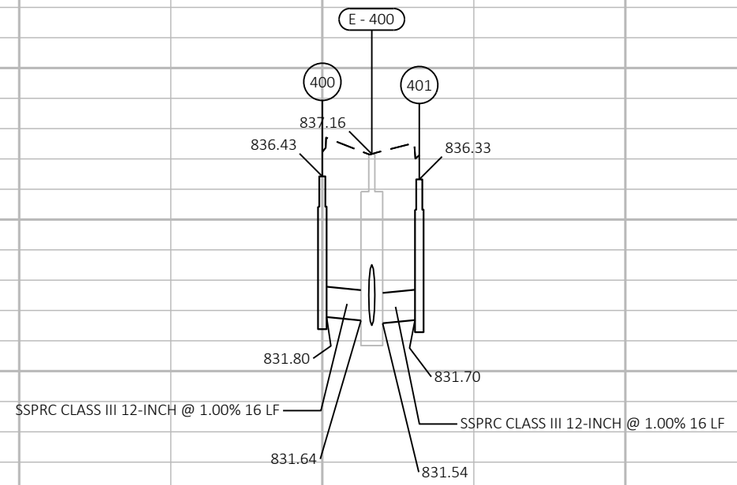
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

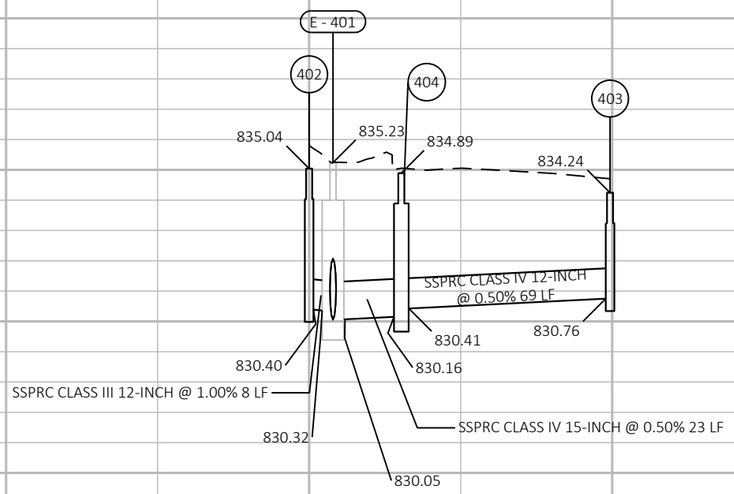
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022515-SS

PLOT DATE : 8/31/2021 9:51 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

PRE_102



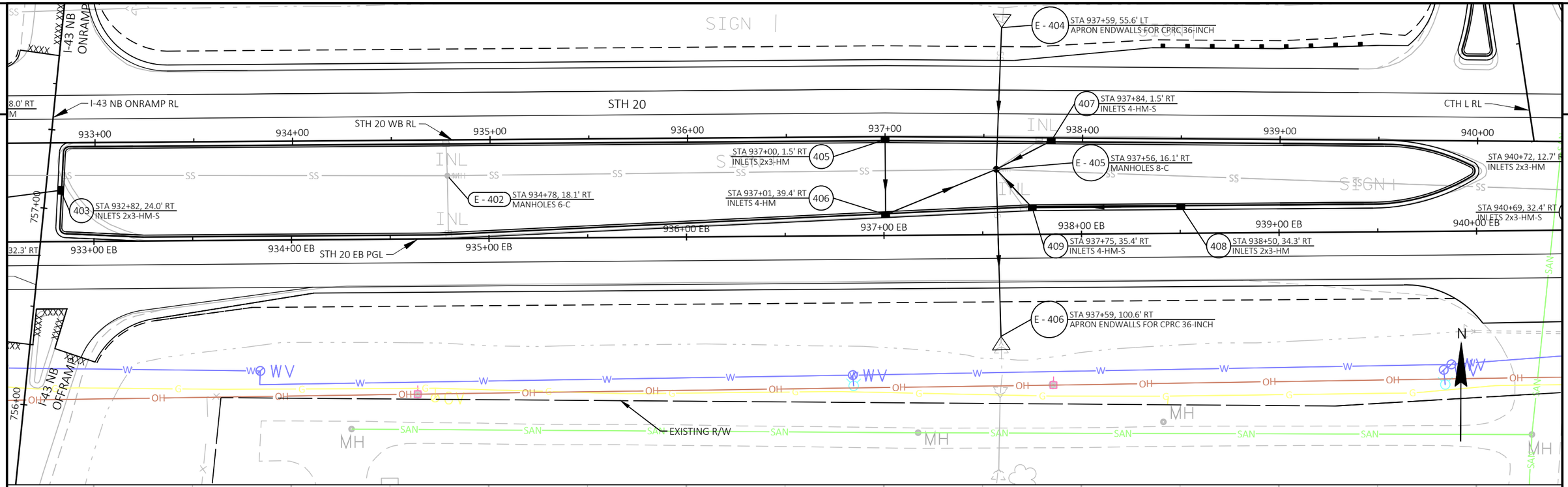




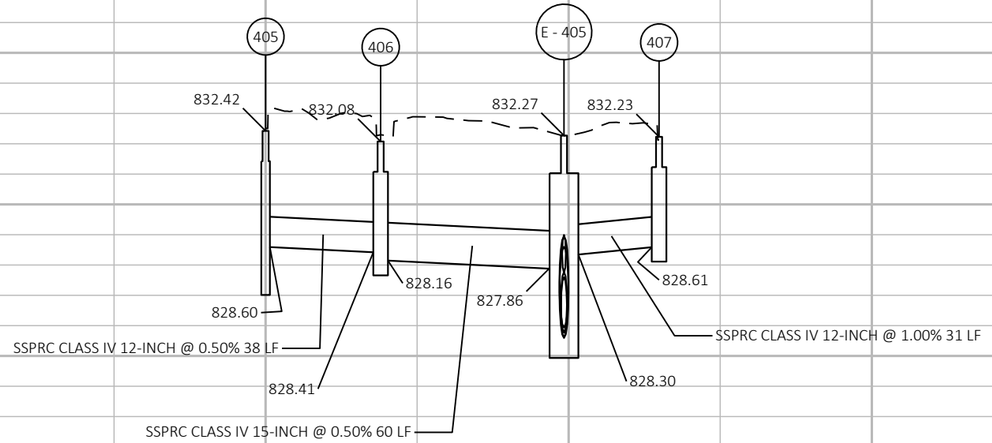
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

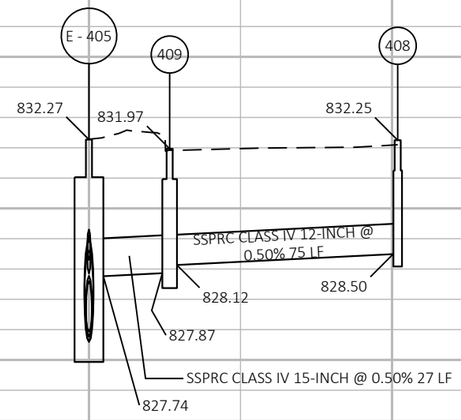
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022516-SS
PLOT DATE :
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

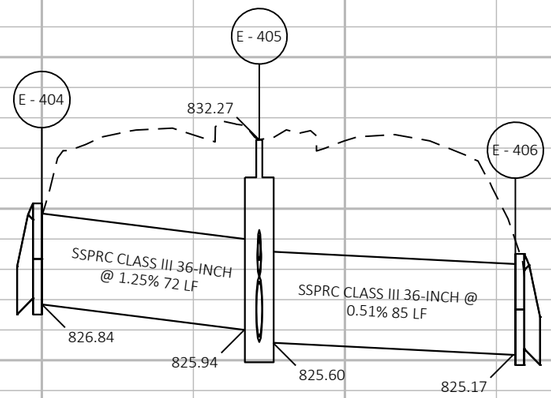
PRE_103



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E







PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_105

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022518-SS

PLOT DATE :

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

CTH L RL

STH 20

STH 20 WB RL

STH 20 WB F

940+00 | 941+00 | 942+00 | 943+00 | 944+00 | 945+00 | 946+00 | 947+00

STA 940+72, 12.7' RT
INLETS 2x3-HM
410

E - 403
STA 940+79, 25.4' RT
MANHOLES 6-C

STA 940+69, 32.4' RT
INLETS 2x3-HM-S
411

STA 946+28, 11.6' RT
MANHOLES 3-C
500

940+00 EB | 941+00 EB | 942+00 EB | 943+00 EB | 944+00 EB | 945+00 EB | 946+00 EB | 947+00 EB

STH 20 EB PGL

STH 20 EB

STA 946+33, 68.1' RT
APRON ENDWALLS FOR CPRC 15-INCH
501

EXISTING R/W

835 | 830 | 825 | 820 | 815

E - 403

832.34

827.66

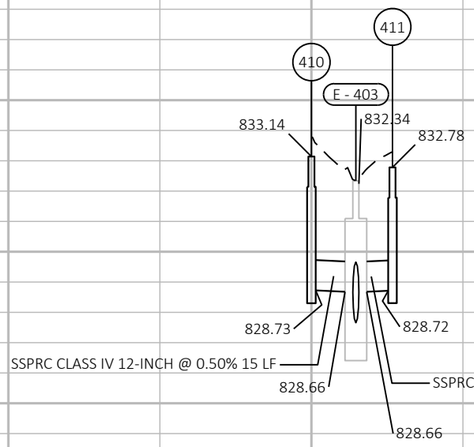
EXISTING SSPRC CLASS III 24-INCH @ 0.59%

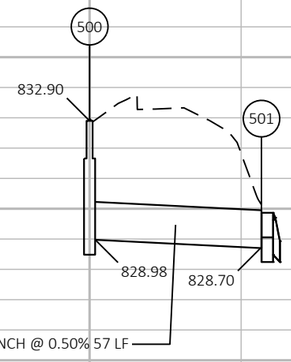
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_106

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022519-SS

PLOT DATE : 8/31/2021 9:53 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT





850 845 840 835 830 825 820 815 810 805

2

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_107

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022520-SS

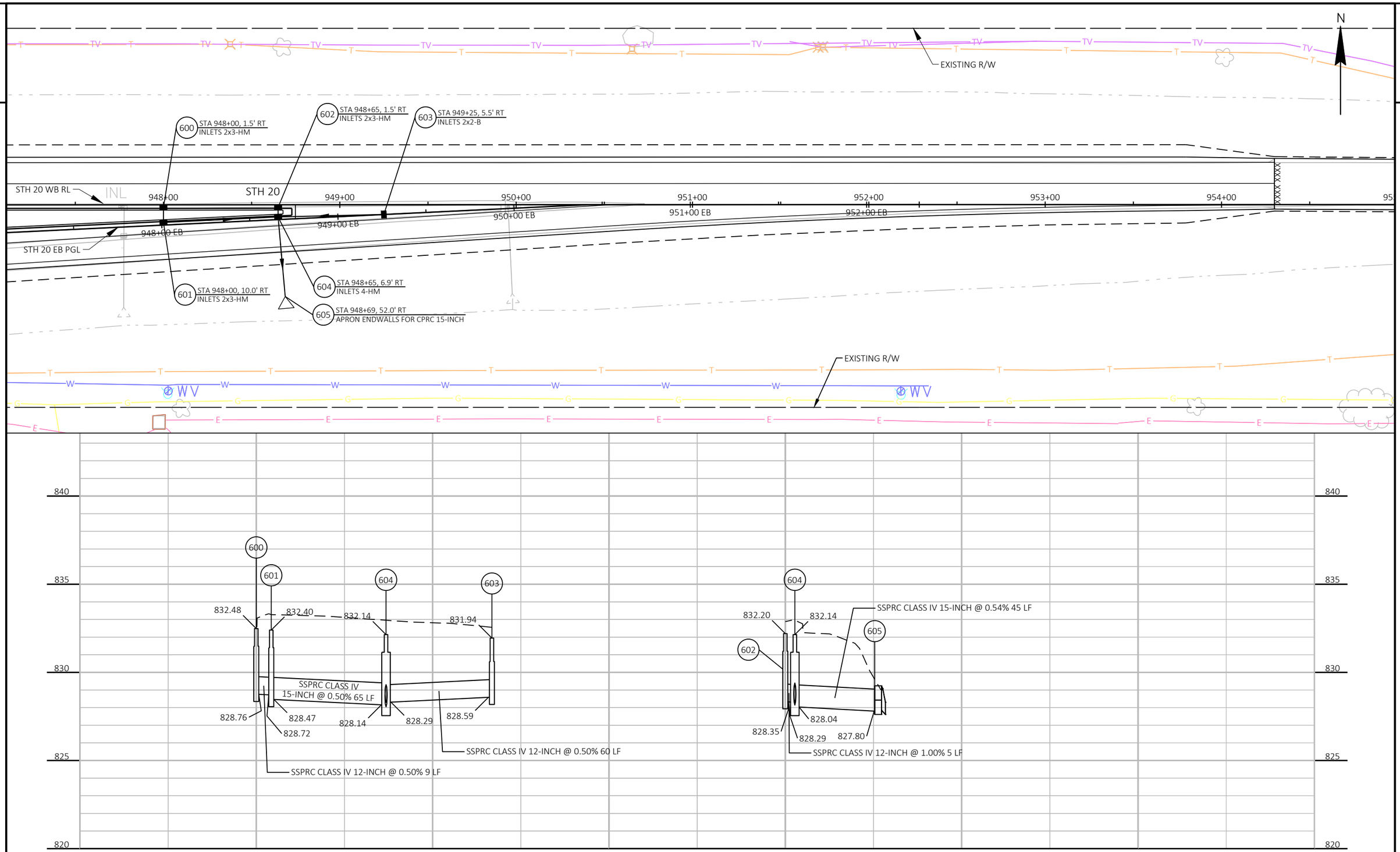
PLOT DATE :

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_108

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022521-SS

PLOT DATE : 8/31/2021 9:54 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 41

2

CULVERT 5A
STA 1136+70, 16.0' LT
APRON ENDWALLS FOR CPRC 18-INCH

CULVERT 5B
STA 1136+70, 16.0' RT
APRON ENDWALLS FOR CPRC 18-INCH

CULVERT 6A
STA 1140+99, 28.9' RT
APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS STEEL 35x24-INCH 4 TO 1

CULVERT 6B
STA 1141+22, 28.5' RT
APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS STEEL 35x24-INCH 4 TO 1

N

W

EXISTING R/W

EXISTING R/W

R/W

R/W

TLE

TLE

1137+00

1138+00

1139+00

1140+00

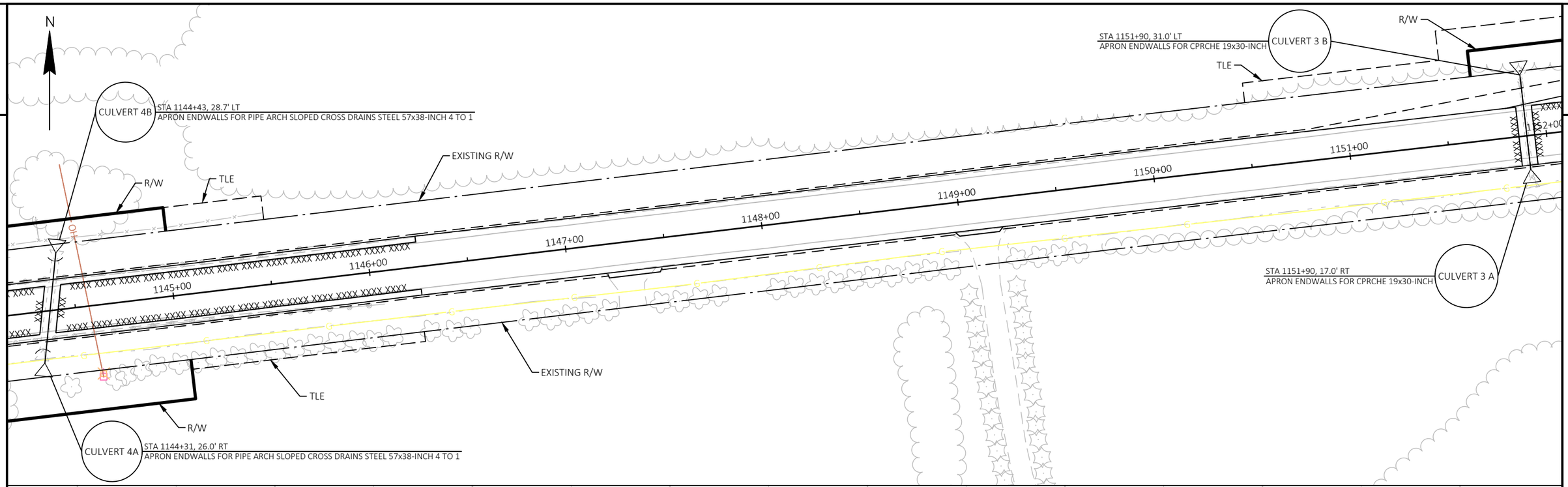
1141+00

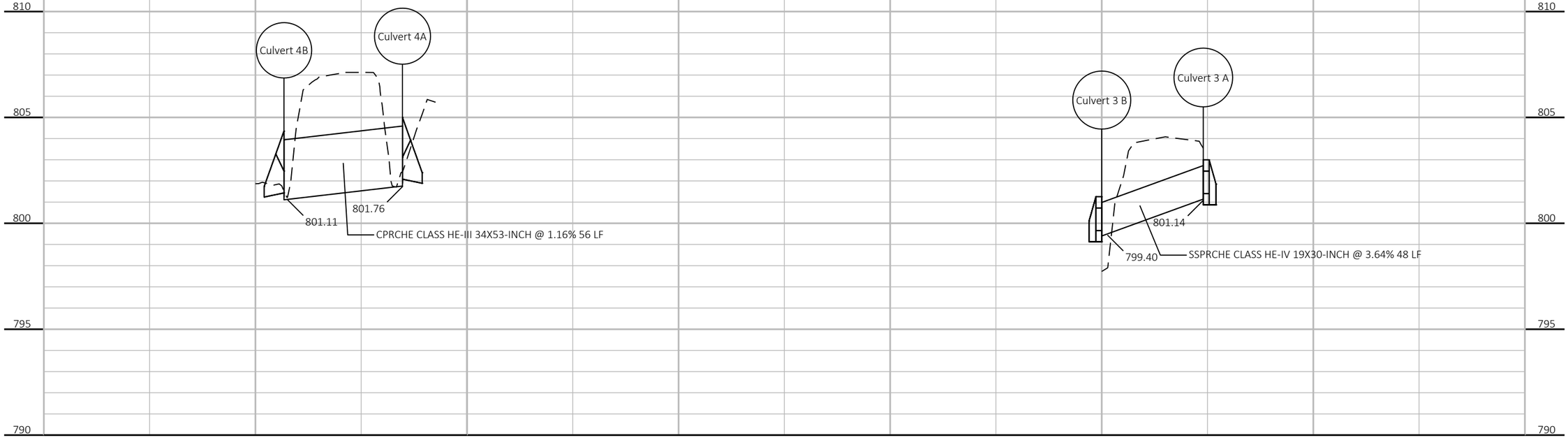
1142+00

1143+00

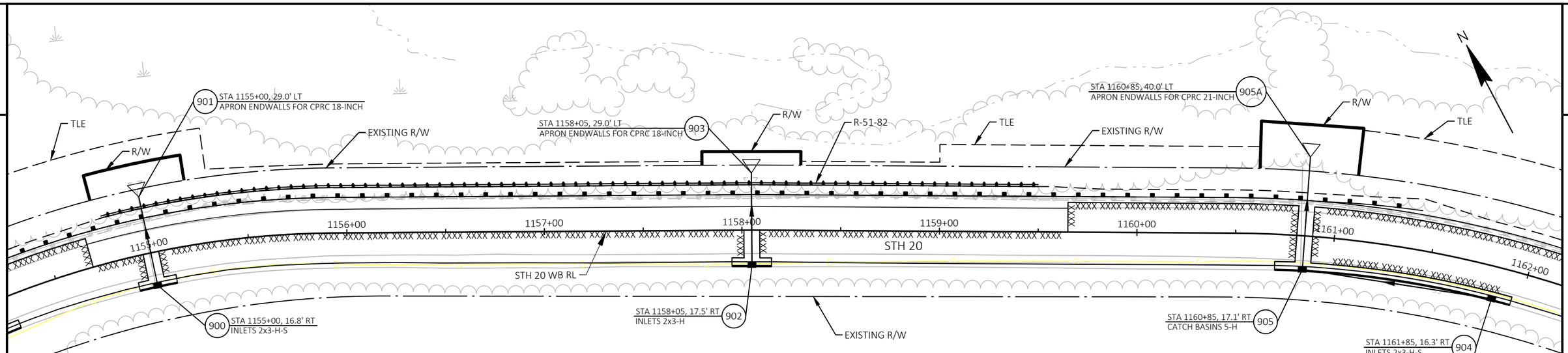
1144+00

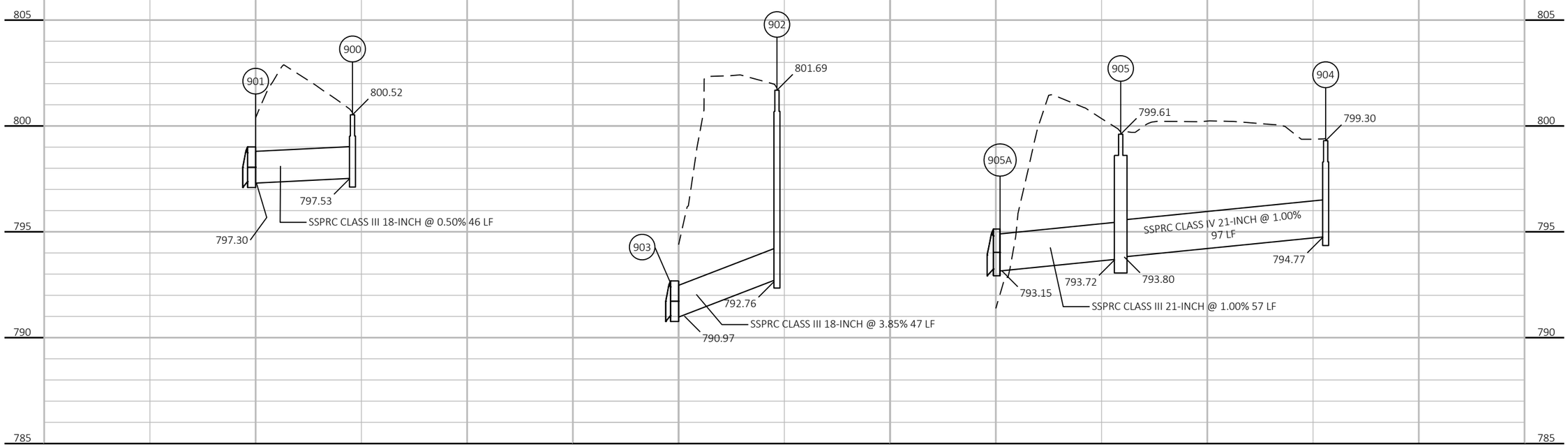
XXXX XXXX XXXX





PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E





PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

2

STA 1178+50, 23.1' LT
APRON ENDWALLS FOR CPRC 12-INCH
907

906
STA 1178+50, 17.1' LT
INLETS 2x2-V

WISCONSIN CENTRAL LIMITED RAILROAD

UTILITY POLE

WETLAND BOUNDARY

EXISTING R/W

TLE

EXISTING R/W

1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00

50+00

STH 20 WB RL

INL

MILLER RD

49+00

TLE

HONEY CREEK

WETLAND BOUNDARY

EXISTING R/W

800 795 790 785 780

906

794.58

907

789.00

789.06

SSPRC CLASS III 12-INCH @ 1.00%

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	STORM SEWER	SHEET E

PRE_112

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022525-SS
PLOT DATE : 10/12/2021 12:57 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41

N Edwards St					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	887+65.00	17.00' LT	844.04	409294.31	800932.77
02	887+70.02	17.00' LT	844.17	409294.35	800937.76
03	887+75.03	17.00' LT	844.25	409294.39	800942.77
04	887+80.05	17.00' LT	844.37	409294.44	800947.77
05	887+75.03	19.50' LT	844.17	409296.89	800942.74
06	887+75.03	21.50' LT	844.17	409298.89	800942.72
07	887+75.05	30.90' LT	844.22	409308.28	800942.66
08	887+80.99	30.83' LT	844.06	409308.27	800948.57
09	887+81.05	35.83' LT	843.91	409313.27	800948.57
10	887+75.06	35.90' LT	844.17	409313.28	800942.62
11	887+70.03	35.95' LT	844.10	409313.29	800937.62
12	887+63.98	36.00' LT	843.68	409313.30	800931.61
13	887+63.93	31.00' LT	843.72	409308.30	800931.60
14	887+70.03	30.95' LT	844.15	409308.29	800937.66
15	887+70.02	21.50' LT	844.10	409298.85	800937.73
16	887+70.02	19.50' LT	844.09	409296.85	800937.74

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

Edwards St. Median					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	1+28.02	0.00'	844.45	409264.33	800935.99
02	1+32.52	0.00' LT	844.54	409264.37	800940.48
03	1+37.01	0.00' LT	844.64	409264.41	800944.98
04	1+37.01	2.50' LT	845.06	409266.91	800944.96
05	1+35.02	2.50' LT	844.52	409266.89	800942.96
06	1+30.01	2.50' LT	844.41	409266.85	800937.96
07	1+28.02	2.50' LT	844.87	409266.83	800935.96
08	1+30.02	4.50' LT	844.46	409268.85	800937.95
09	1+35.02	4.50' LT	844.54	409268.89	800942.95
10	1+35.02	6.50' LT	844.60	409270.89	800942.93
11	1+30.02	6.50' LT	844.53	409270.85	800937.94
12	1+30.02	8.50' LT	844.56	409272.85	800937.92
13	1+35.03	8.50' LT	844.67	409272.89	800942.92
14	1+37.03	8.50' LT	845.21	409272.91	800944.92
15	1+37.03	11.00' LT	844.63	409275.41	800944.90
16	1+32.53	11.00' LT	844.53	409275.37	800940.40
17	1+28.02	11.00' LT	844.43	409275.33	800935.90
18	1+28.02	8.50' LT	845.01	409272.83	800935.92

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

N

LEGEND

- X — CURB RAMP TYPE
- SW5 — CONCRETE SIDEWALK 5-INCH
- XX — POINT NUMBER
- XX — RADIUS TABLE NUMBER

888+00

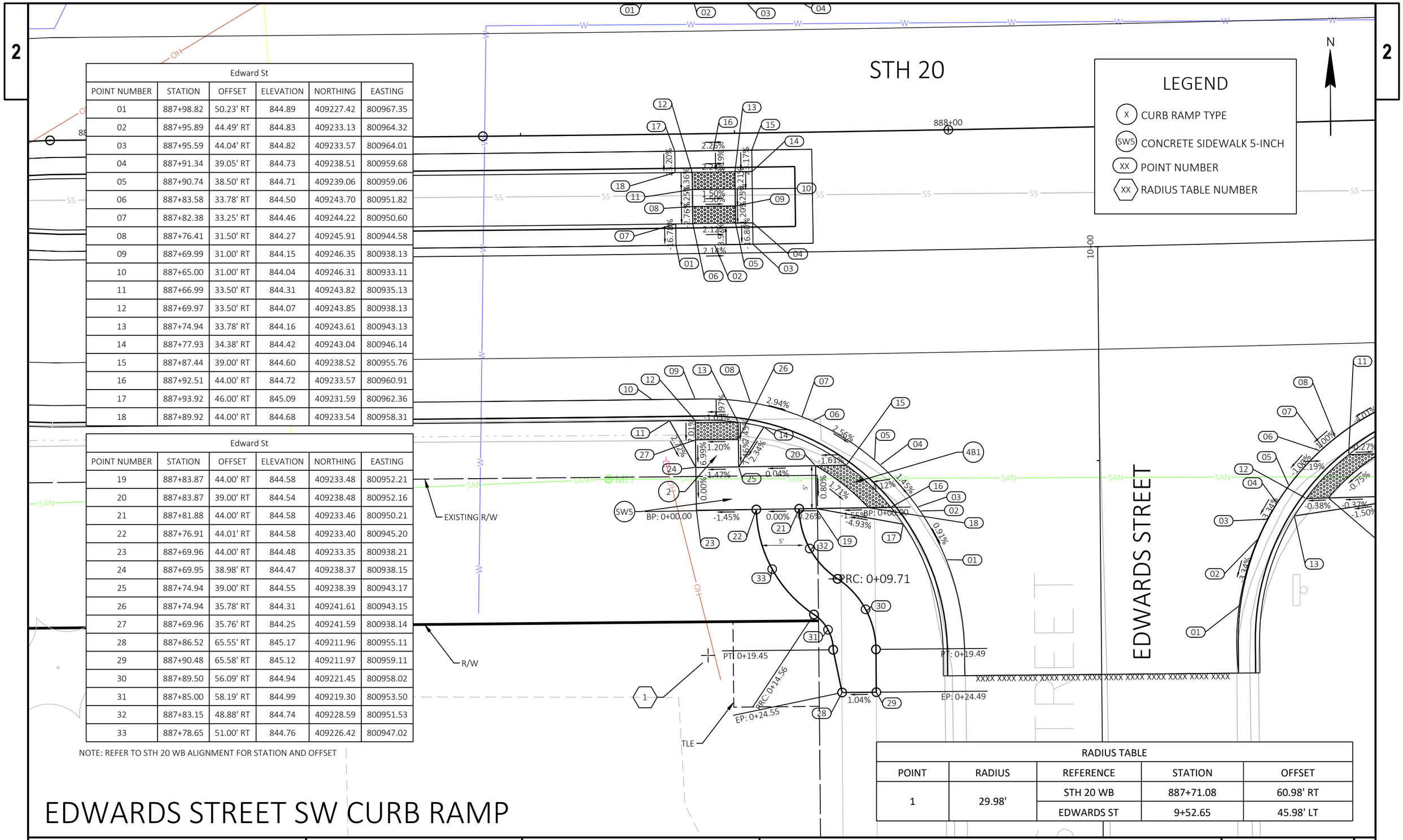
STH 20

EDWARDS STREET N CURB RAMP

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - EDWARDS ST N	SHEET E

PRE_113

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023101-CR
PLOT DATE : 9/16/2021 12:35 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



Edward St					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	887+98.82	50.23' RT	844.89	409227.42	800967.35
02	887+95.89	44.49' RT	844.83	409233.13	800964.32
03	887+95.59	44.04' RT	844.82	409233.57	800964.01
04	887+91.34	39.05' RT	844.73	409238.51	800959.68
05	887+90.74	38.50' RT	844.71	409239.06	800959.06
06	887+83.58	33.78' RT	844.50	409243.70	800951.82
07	887+82.38	33.25' RT	844.46	409244.22	800950.60
08	887+76.41	31.50' RT	844.27	409245.91	800944.58
09	887+69.99	31.00' RT	844.15	409246.35	800938.13
10	887+65.00	31.00' RT	844.04	409246.31	800933.11
11	887+66.99	33.50' RT	844.31	409243.82	800935.13
12	887+69.97	33.50' RT	844.07	409243.85	800938.13
13	887+74.94	33.78' RT	844.16	409243.61	800943.13
14	887+77.93	34.38' RT	844.42	409243.04	800946.14
15	887+87.44	39.00' RT	844.60	409238.52	800955.76
16	887+92.51	44.00' RT	844.72	409233.57	800960.91
17	887+93.92	46.00' RT	845.09	409231.59	800962.36
18	887+89.92	44.00' RT	844.68	409233.54	800958.31

Edward St					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
19	887+83.87	44.00' RT	844.58	409233.48	800952.21
20	887+83.87	39.00' RT	844.54	409238.48	800952.16
21	887+81.88	44.00' RT	844.58	409233.46	800950.21
22	887+76.91	44.01' RT	844.58	409233.40	800945.20
23	887+69.96	44.00' RT	844.48	409233.35	800938.21
24	887+69.95	38.98' RT	844.47	409238.37	800938.15
25	887+74.94	39.00' RT	844.55	409238.39	800943.17
26	887+74.94	35.78' RT	844.31	409241.61	800943.15
27	887+69.96	35.76' RT	844.25	409241.59	800938.14
28	887+86.52	65.55' RT	845.17	409211.96	800955.11
29	887+90.48	65.58' RT	845.12	409211.97	800959.11
30	887+89.50	56.09' RT	844.94	409221.45	800958.02
31	887+85.00	58.19' RT	844.99	409219.30	800953.50
32	887+83.15	48.88' RT	844.74	409228.59	800951.53
33	887+78.65	51.00' RT	844.76	409226.42	800947.02

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
1	29.98'	STH 20 WB	887+71.08	60.98' RT
		EDWARDS ST	9+52.65	45.98' LT

EDWARDS STREET SW CURB RAMP

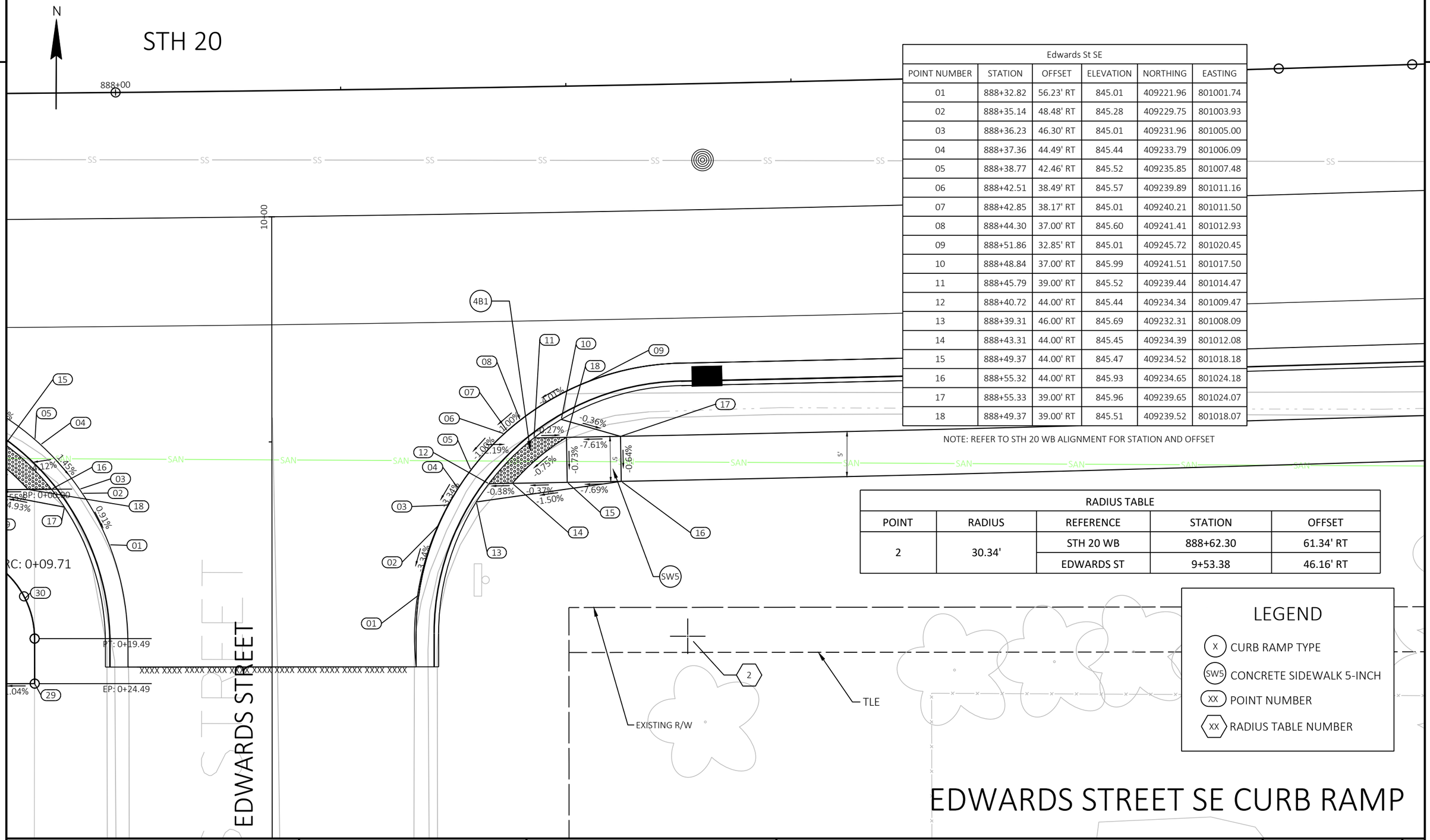
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - EDWARDS ST	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023102-CR
PLOT DATE : 9/16/2021 8:26 AM
PLOT BY : DE JESUS ORTIZ, N
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

PRE_114

WISDOT/CADDS SHEET 42

2



Edwards St SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	888+32.82	56.23' RT	845.01	409221.96	801001.74
02	888+35.14	48.48' RT	845.28	409229.75	801003.93
03	888+36.23	46.30' RT	845.01	409231.96	801005.00
04	888+37.36	44.49' RT	845.44	409233.79	801006.09
05	888+38.77	42.46' RT	845.52	409235.85	801007.48
06	888+42.51	38.49' RT	845.57	409239.89	801011.16
07	888+42.85	38.17' RT	845.01	409240.21	801011.50
08	888+44.30	37.00' RT	845.60	409241.41	801012.93
09	888+51.86	32.85' RT	845.01	409245.72	801020.45
10	888+48.84	37.00' RT	845.99	409241.51	801017.50
11	888+45.79	39.00' RT	845.52	409239.44	801014.47
12	888+40.72	44.00' RT	845.44	409234.34	801009.47
13	888+39.31	46.00' RT	845.69	409232.31	801008.09
14	888+43.31	44.00' RT	845.45	409234.39	801012.08
15	888+49.37	44.00' RT	845.47	409234.52	801018.18
16	888+55.32	44.00' RT	845.93	409234.65	801024.18
17	888+55.33	39.00' RT	845.96	409239.65	801024.07
18	888+49.37	39.00' RT	845.51	409239.52	801018.07

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
2	30.34'	STH 20 WB	888+62.30	61.34' RT
		EDWARDS ST	9+53.38	46.16' RT

LEGEND

- (X) CURB RAMP TYPE
- (SW5) CONCRETE SIDEWALK 5-INCH
- (XX) POINT NUMBER
- (XX) RADIUS TABLE NUMBER

EDWARDS STREET SE CURB RAMP

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - EDWARDS ST SE	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023103-CR

PLOT DATE : 9/16/2021 8:47 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

East Dr West					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	893+91.58	19.86' LT	856.74	409304.32	801559.71
02	893+94.01	21.65' LT	856.76	409306.07	801562.18
03	893+96.80	24.47' LT	856.73	409308.85	801565.03
04	893+97.56	25.48' LT	856.84	409309.84	801565.81
05	894+00.11	30.48' LT	856.92	409314.80	801568.46
06	894+01.04	34.48' LT	856.73	409318.77	801569.48
07	893+98.54	34.49' LT	857.40	409318.83	801566.96
08	893+98.26	33.00' LT	857.37	409317.35	801566.65
09	893+97.27	30.00' LT	856.82	409314.36	801565.61
10	893+94.00	25.00' LT	856.71	409309.42	801562.22
11	893+90.29	22.00' LT	857.16	409306.49	801558.46
12	893+88.02	25.00' LT	857.13	409309.53	801556.23
13	893+92.00	25.00' LT	856.85	409309.46	801560.22
14	893+93.99	30.00' LT	856.78	409314.42	801562.31
15	893+92.00	30.00' LT	856.92	409314.46	801560.31
16	893+88.03	30.00' LT	857.20	409314.53	801556.32
17	893+71.27	30.00' LT	857.33	409314.78	801539.48
18	893+71.27	25.00' LT	857.26	409309.78	801539.41

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

FRONTAGE ROAD

EAST DRIVE

STH 20

N

EXISTING R/W

TLE

R/W

894+00

BP: 10+00.00

RM=857.26

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
3	20.09'	STH 20 WB	893+81.24	37.08' LT
		EAST DR	10+37.33	37.00' LT
4	20.04'	STH 20 WB	894+52.69	37.04' LT
		EAST DR	10+36.60	34.88' RT

LEGEND

- X — CURB RAMP TYPE
- SW5 — CONCRETE SIDEWALK 5-INCH
- XX — POINT NUMBER
- XX — RADIUS TABLE NUMBER

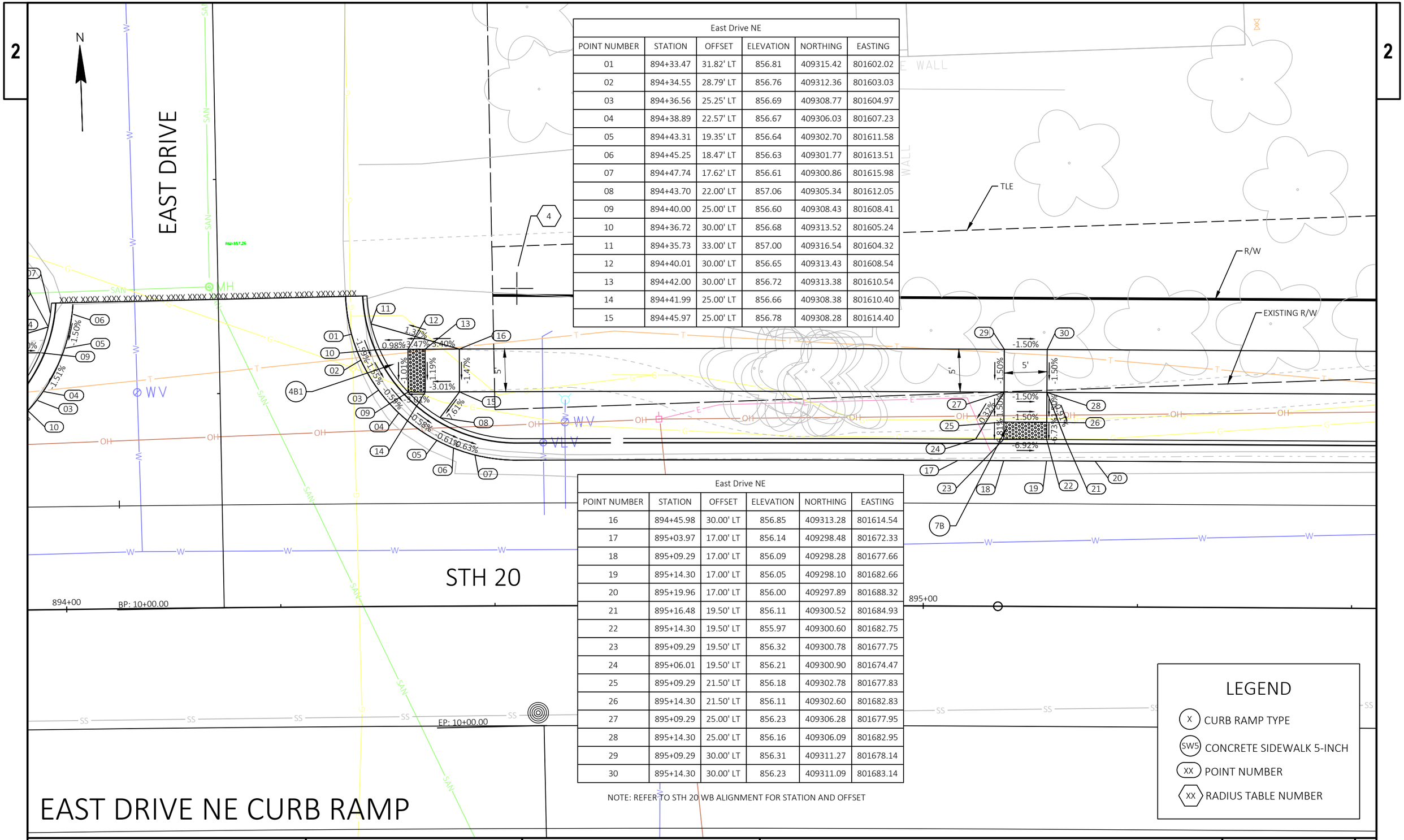
EAST DRIVE W CURB RAMP

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - EAST DR	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023104-CR

PLOT DATE : 9/16/2021 9:23 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

PRE_116



East Drive NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	894+33.47	31.82' LT	856.81	409315.42	801602.02
02	894+34.55	28.79' LT	856.76	409312.36	801603.03
03	894+36.56	25.25' LT	856.69	409308.77	801604.97
04	894+38.89	22.57' LT	856.67	409306.03	801607.23
05	894+43.31	19.35' LT	856.64	409302.70	801611.58
06	894+45.25	18.47' LT	856.63	409301.77	801613.51
07	894+47.74	17.62' LT	856.61	409300.86	801615.98
08	894+43.70	22.00' LT	857.06	409305.34	801612.05
09	894+40.00	25.00' LT	856.60	409308.43	801608.41
10	894+36.72	30.00' LT	856.68	409313.52	801605.24
11	894+35.73	33.00' LT	857.00	409316.54	801604.32
12	894+40.01	30.00' LT	856.65	409313.43	801608.54
13	894+42.00	30.00' LT	856.72	409313.38	801610.54
14	894+41.99	25.00' LT	856.66	409308.38	801610.40
15	894+45.97	25.00' LT	856.78	409308.28	801614.40

East Drive NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
16	894+45.98	30.00' LT	856.85	409313.28	801614.54
17	895+03.97	17.00' LT	856.14	409298.48	801672.33
18	895+09.29	17.00' LT	856.09	409298.28	801677.66
19	895+14.30	17.00' LT	856.05	409298.10	801682.66
20	895+19.96	17.00' LT	856.00	409297.89	801688.32
21	895+16.48	19.50' LT	856.11	409300.52	801684.93
22	895+14.30	19.50' LT	855.97	409300.60	801682.75
23	895+09.29	19.50' LT	856.32	409300.78	801677.75
24	895+06.01	19.50' LT	856.21	409300.90	801674.47
25	895+09.29	21.50' LT	856.18	409302.78	801677.83
26	895+14.30	21.50' LT	856.11	409302.60	801682.83
27	895+09.29	25.00' LT	856.23	409306.28	801677.95
28	895+14.30	25.00' LT	856.16	409306.09	801682.95
29	895+09.29	30.00' LT	856.31	409311.27	801678.14
30	895+14.30	30.00' LT	856.23	409311.09	801683.14

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

EAST DRIVE NE CURB RAMP

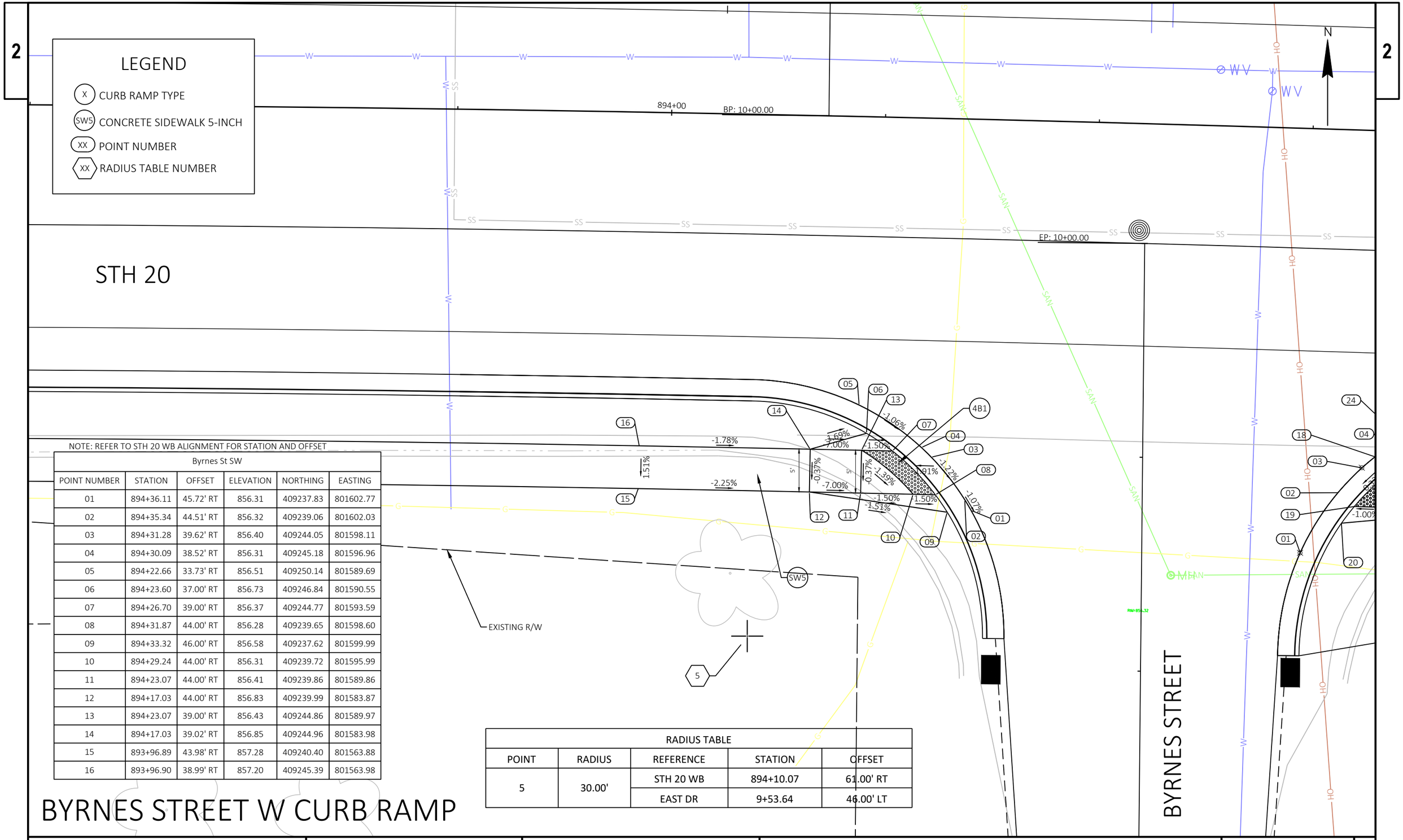
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - EAST DR NE	SHEET E

PRE_117

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023105-CR

PLOT DATE : 9/16/2021 6:26 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

Byrnes St SW

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	894+36.11	45.72' RT	856.31	409237.83	801602.77
02	894+35.34	44.51' RT	856.32	409239.06	801602.03
03	894+31.28	39.62' RT	856.40	409244.05	801598.11
04	894+30.09	38.52' RT	856.31	409245.18	801596.96
05	894+22.66	33.73' RT	856.51	409250.14	801589.69
06	894+23.60	37.00' RT	856.73	409246.84	801590.55
07	894+26.70	39.00' RT	856.37	409244.77	801593.59
08	894+31.87	44.00' RT	856.28	409239.65	801598.60
09	894+33.32	46.00' RT	856.58	409237.62	801599.99
10	894+29.24	44.00' RT	856.31	409239.72	801595.99
11	894+23.07	44.00' RT	856.41	409239.86	801589.86
12	894+17.03	44.00' RT	856.83	409239.99	801583.87
13	894+23.07	39.00' RT	856.43	409244.86	801589.97
14	894+17.03	39.02' RT	856.85	409244.96	801583.98
15	893+96.89	43.98' RT	857.28	409240.40	801563.88
16	893+96.90	38.99' RT	857.20	409245.39	801563.98

RADIUS TABLE

POINT	RADIUS	REFERENCE	STATION	OFFSET
5	30.00'	STH 20 WB	894+10.07	61.00' RT
		EAST DR	9+53.64	46.00' LT

BYRNES STREET W CURB RAMP

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - BYRNES ST	SHEET E

PRE_118

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023106-CR

PLOT DATE : 9/16/2021 9:55 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

STH 20

N

EP: 10+00.00

895+00

LEGEND

- X — CURB RAMP TYPE
- SW5 — ~~CONCRETE SIDEWALK 5 INCH~~
- XX — POINT NUMBER
- XX — RADIUS TABLE NUMBER

Byrnes SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	0+12.38	0.01' RT	856.11	409232.86	801641.24
02	0+20.71	0.00'	856.05	409239.89	801645.65
03	0+24.75	0.01' RT	856.01	409242.79	801648.46
04	0+28.55	0.00'	856.02	409245.16	801651.43
05	0+32.58	0.00'	856.05	409247.24	801654.87
06	0+37.11	0.01' RT	856.08	409248.99	801659.05
07	0+48.14	0.00'	856.06	409250.53	801669.91
08	0+50.66	0.00'	856.04	409250.44	801672.42
09	0+53.47	0.00'	856.03	409250.34	801675.23
10	0+58.47	0.00'	856.00	409250.16	801680.23
11	0+60.12	0.00'	855.99	409250.10	801681.87
12	0+66.00	0.00'	855.96	409249.88	801687.75
13	0+63.66	2.50' RT	856.39	409247.47	801685.33
14	0+59.14	2.50' RT	856.05	409247.63	801680.81
15	0+54.14	2.50' RT	856.17	409247.82	801675.81
16	0+50.66	2.50' RT	856.22	409247.94	801672.33
17	0+32.56	2.50' RT	856.29	409245.01	801656.01
18	0+28.55	2.50' RT	855.94	409243.11	801652.86

Byrnes SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
19	0+20.71	2.50' RT	855.97	409238.28	801647.57
20	0+18.02	2.50' RT	856.21	409236.33	801646.06
21	0+22.62	4.50' RT	855.99	409238.20	801650.18
22	0+28.41	8.67' RT	856.05	409238.00	801656.30
23	0+36.31	11.65' RT	856.47	409237.79	801662.29
24	0+31.96	4.50' RT	855.98	409242.99	801656.47
25	0+38.76	6.94' RT	856.40	409242.79	801662.47
26	0+54.14	13.00' RT	856.47	409237.32	801675.43
27	0+54.20	22.78' RT	856.51	409227.55	801675.12
28	0+59.20	22.75' RT	856.56	409227.39	801680.12
29	0+59.14	13.00' RT	856.39	409237.14	801680.42
30	0+70.05	13.00' RT	856.48	409236.74	801691.32
31	0+70.05	8.00' RT	856.43	409241.74	801691.51
32	0+59.14	8.00' RT	856.32	409242.14	801680.61
33	0+59.14	4.50' RT	856.07	409245.63	801680.74
34	0+54.14	4.50' RT	856.15	409245.81	801675.74
35	0+54.14	8.00' RT	856.39	409242.32	801675.61

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
6	30.01'	STH 20 WB	895+03.04	60.97' RT
		EAST DR	9+52.01	46.01' RT

EXISTING R/W

BYRNES STREET

BYRNES STREET E CURB RAMP

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - BYRNES ST	SHEET E

PRE_119

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023107-CR

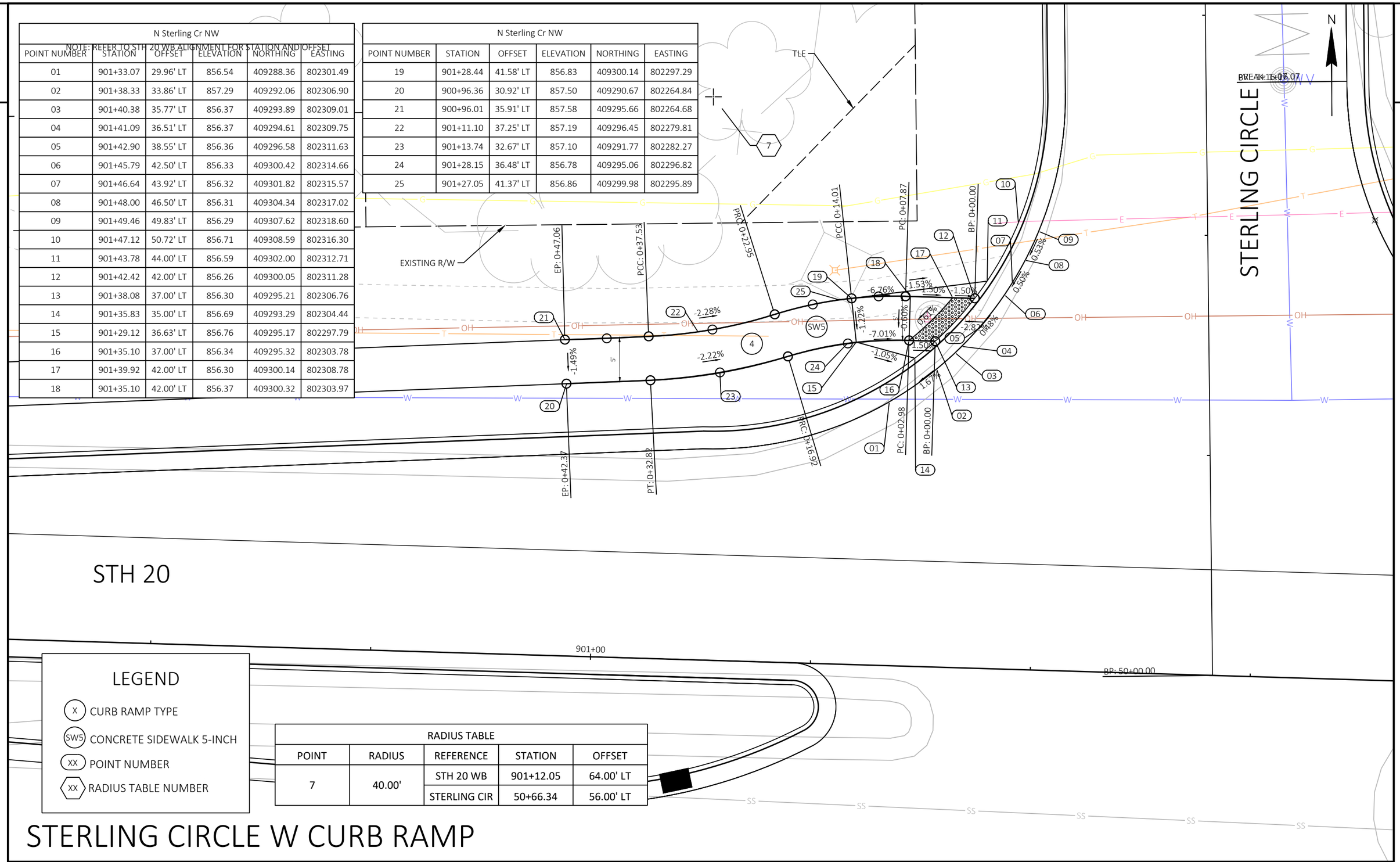
PLOT DATE : 9/16/2021 4:59 PM | PLOT BY : DE JESUS ORTIZ, N | PLOT NAME : | PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

N Sterling Cr NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	901+33.07	29.96' LT	856.54	409288.36	802301.49
02	901+38.33	33.86' LT	857.29	409292.06	802306.90
03	901+40.38	35.77' LT	856.37	409293.89	802309.01
04	901+41.09	36.51' LT	856.37	409294.61	802309.75
05	901+42.90	38.55' LT	856.36	409296.58	802311.63
06	901+45.79	42.50' LT	856.33	409300.42	802314.66
07	901+46.64	43.92' LT	856.32	409301.82	802315.57
08	901+48.00	46.50' LT	856.31	409304.34	802317.02
09	901+49.46	49.83' LT	856.29	409307.62	802318.60
10	901+47.12	50.72' LT	856.71	409308.59	802316.30
11	901+43.78	44.00' LT	856.59	409302.00	802312.71
12	901+42.42	42.00' LT	856.26	409300.05	802311.28
13	901+38.08	37.00' LT	856.30	409295.21	802306.76
14	901+35.83	35.00' LT	856.69	409293.29	802304.44
15	901+29.12	36.63' LT	856.76	409295.17	802297.79
16	901+35.10	37.00' LT	856.34	409295.32	802303.78
17	901+39.92	42.00' LT	856.30	409300.14	802308.78
18	901+35.10	42.00' LT	856.37	409300.32	802303.97

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

N Sterling Cr NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
19	901+28.44	41.58' LT	856.83	409300.14	802297.29
20	900+96.36	30.92' LT	857.50	409290.67	802264.84
21	900+96.01	35.91' LT	857.58	409295.66	802264.68
22	901+11.10	37.25' LT	857.19	409296.45	802279.81
23	901+13.74	32.67' LT	857.10	409291.77	802282.27
24	901+28.15	36.48' LT	856.78	409295.06	802296.82
25	901+27.05	41.37' LT	856.86	409299.98	802295.89



LEGEND

- (X) CURB RAMP TYPE
- (SW5) CONCRETE SIDEWALK 5-INCH
- (XX) POINT NUMBER
- (XX) RADIUS TABLE NUMBER

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
7	40.00'	STH 20 WB	901+12.05	64.00' LT
		STERLING CIR	50+66.34	56.00' LT

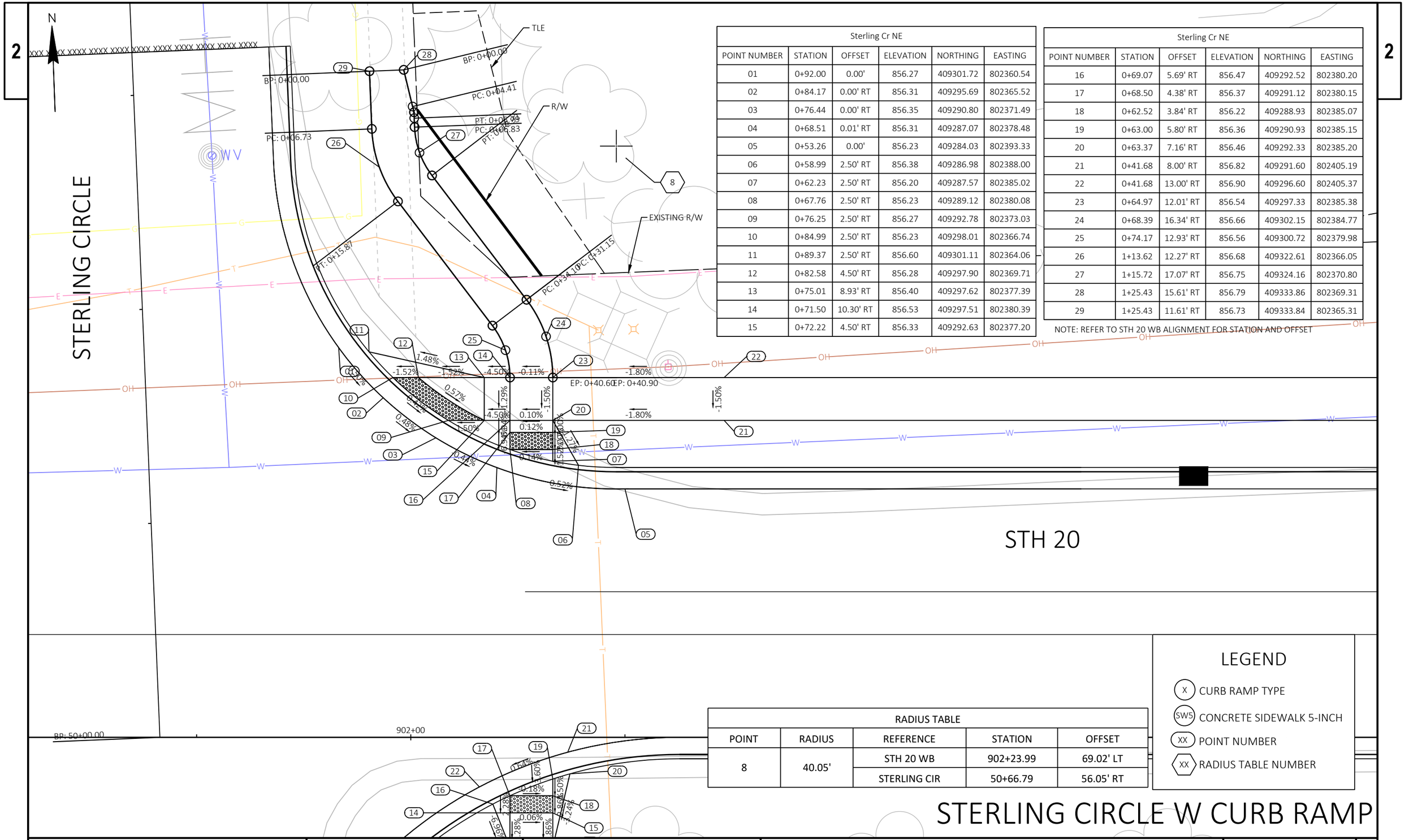
STERLING CIRCLE W CURB RAMP

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - N STERLING CR	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023108-CR

PLOT DATE : 9/16/2021 10:27 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

PRE_120



Sterling Cr NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	0+92.00	0.00'	856.27	409301.72	802360.54
02	0+84.17	0.00' RT	856.31	409295.69	802365.52
03	0+76.44	0.00' RT	856.35	409290.80	802371.49
04	0+68.51	0.01' RT	856.31	409287.07	802378.48
05	0+53.26	0.00'	856.23	409284.03	802393.33
06	0+58.99	2.50' RT	856.38	409286.98	802388.00
07	0+62.23	2.50' RT	856.20	409287.57	802385.02
08	0+67.76	2.50' RT	856.23	409289.12	802380.08
09	0+76.25	2.50' RT	856.27	409292.78	802373.03
10	0+84.99	2.50' RT	856.23	409298.01	802366.74
11	0+89.37	2.50' RT	856.60	409301.11	802364.06
12	0+82.58	4.50' RT	856.28	409297.90	802369.71
13	0+75.01	8.93' RT	856.40	409297.62	802377.39
14	0+71.50	10.30' RT	856.53	409297.51	802380.39
15	0+72.22	4.50' RT	856.33	409292.63	802377.20

Sterling Cr NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
16	0+69.07	5.69' RT	856.47	409292.52	802380.20
17	0+68.50	4.38' RT	856.37	409291.12	802380.15
18	0+62.52	3.84' RT	856.22	409288.93	802385.07
19	0+63.00	5.80' RT	856.36	409290.93	802385.15
20	0+63.37	7.16' RT	856.46	409292.33	802385.20
21	0+41.68	8.00' RT	856.82	409291.60	802405.19
22	0+41.68	13.00' RT	856.90	409296.60	802405.37
23	0+64.97	12.01' RT	856.54	409297.33	802385.38
24	0+68.39	16.34' RT	856.66	409302.15	802384.77
25	0+74.17	12.93' RT	856.56	409300.72	802379.98
26	1+13.62	12.27' RT	856.68	409322.61	802366.05
27	1+15.72	17.07' RT	856.75	409324.16	802370.80
28	1+25.43	15.61' RT	856.79	409333.86	802369.31
29	1+25.43	11.61' RT	856.73	409333.84	802365.31

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
8	40.05'	STH 20 WB	902+23.99	69.02' LT
		STERLING CIR	50+66.79	56.02' RT

LEGEND

- (X) CURB RAMP TYPE
- (SW5) CONCRETE SIDEWALK 5-INCH
- (XX) POINT NUMBER
- XX RADIUS TABLE NUMBER

STERLING CIRCLE W CURB RAMP

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - N STERLING CR	SHEET E

PRE_121

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023109-CR

PLOT DATE : 9/16/2021 4:23 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

STERLING CIRCLE S CURB RAMP

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

Sterling Cr East Median					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	902+17.21	31.44' RT	856.80	409223.92	802383.32
02	902+17.93	29.03' RT	857.22	409226.30	802384.14
03	902+15.98	28.11' RT	856.71	409227.29	802382.22
04	902+08.36	26.62' RT	856.73	409229.05	802374.66
05	902+11.10	25.41' RT	856.67	409230.16	802377.44
06	902+09.73	24.54' RT	857.15	409231.09	802376.11
07	902+11.20	23.41' RT	856.64	409232.16	802377.62
08	902+16.10	25.66' RT	856.69	409229.74	802382.43
09	902+16.20	23.66' RT	856.66	409231.73	802382.60
10	902+16.39	19.66' RT	856.60	409235.71	802382.94
11	902+11.40	19.42' RT	856.58	409236.14	802377.96

Sterling Cr East Median					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
12	902+11.57	12.82' RT	856.48	409242.73	802378.38
13	902+16.57	12.82' RT	856.50	409242.55	802383.37
14	902+11.57	8.82' RT	856.38	409246.73	802378.52
15	902+16.57	8.82' RT	856.39	409246.55	802383.52
16	902+09.57	7.79' RT	856.85	409247.83	802376.56
17	902+11.57	6.82' RT	856.34	409248.73	802378.60
18	902+16.57	6.82' RT	856.33	409248.55	802383.59
19	902+16.57	4.86' RT	856.30	409250.50	802383.66
20	902+18.57	4.25' RT	856.79	409251.03	802385.68
21	902+18.32	1.73' RT	856.36	409253.56	802385.52
22	902+08.01	5.78' RT	856.44	409249.89	802375.07

STH 20

902+00

N

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

Sterling Cr South					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	902+00.31	63.39' RT	856.82	409192.60	802365.26
02	902+06.02	63.79' RT	856.80	409192.00	802370.96
03	902+08.71	63.96' RT	856.80	409191.73	802373.64
04	902+11.74	64.15' RT	856.79	409191.43	802376.66
05	902+14.70	64.32' RT	856.79	409191.15	802379.61
06	902+17.46	64.48' RT	856.78	409190.89	802382.36
07	902+23.18	64.77' RT	856.77	409190.39	802388.07
08	902+23.06	67.27' RT	857.19	409187.90	802387.86
09	902+14.08	66.79' RT	856.71	409188.70	802378.90
10	902+09.08	66.49' RT	856.72	409189.19	802373.92
11	902+00.13	65.89' RT	857.24	409190.12	802364.99
12	902+08.98	68.54' RT	856.75	409187.14	802373.74
13	902+13.98	68.79' RT	856.74	409186.71	802378.72

Sterling Cr South					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
14	902+08.81	71.98' RT	856.80	409183.71	802373.45
15	902+13.81	72.28' RT	856.79	409183.22	802378.42
16	902+19.80	72.61' RT	857.18	409182.68	802384.40
17	902+22.79	72.76' RT	857.38	409182.42	802387.39
18	902+22.53	77.76' RT	857.45	409177.43	802386.95
19	902+19.54	77.61' RT	857.26	409177.70	802383.96
20	902+13.56	77.28' RT	856.86	409178.24	802378.00
21	902+08.57	76.98' RT	856.87	409178.73	802373.02
22	902+02.48	76.58' RT	857.29	409179.35	802366.95
23	902+02.83	71.59' RT	857.22	409184.32	802367.48
24	901+99.39	76.36' RT	857.50	409179.68	802363.87
25	901+99.73	71.37' RT	857.43	409184.65	802364.40

LEGEND

- X — CURB RAMP TYPE
- SW5 — CONCRETE SIDEWALK 5-INCH
- XX — POINT NUMBER
- XX — RADIUS TABLE NUMBER

EXISTING R/W

R/W

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
9	50.00'	STH 20 WB	902+31.36	50.00' RT
10	5.00'	STH 20 WB	902+02.52	15.46' RT
11	60.00'	STH 20 WB	902+41.36	23.46' LT

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - S STERLING CR	SHEET E

PRE_122

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 0231010-CR

PLOT DATE : 9/16/2021 11:13 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

CTH ES NW CURB RAMP

CTH ES

CTH ES NW Top					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	916+86.57	55.30' LT	852.08	409310.55	803852.62
02	916+90.44	57.56' LT	852.04	409312.87	803856.46
03	916+92.50	58.82' LT	852.02	409314.16	803858.49
04	916+95.51	60.77' LT	851.99	409316.15	803861.48
05	916+98.26	62.61' LT	851.96	409318.04	803864.20
06	916+93.73	62.58' LT	851.91	409317.93	803859.67
07	916+89.50	59.91' LT	851.96	409315.20	803855.48
08	916+88.40	61.58' LT	852.10	409316.86	803854.36
09	916+92.59	64.32' LT	852.05	409319.66	803858.50
10	916+87.98	71.36' LT	852.35	409326.63	803853.78
11	916+86.49	64.51' LT	852.34	409319.76	803852.40
12	916+62.92	53.08' LT	852.73	409307.96	803829.01
13	916+63.39	58.62' LT	852.74	409313.51	803829.39

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

LEGEND

- X — CURB RAMP TYPE
- SW5 — CONCRETE SIDEWALK 5-INCH
- XX — POINT NUMBER
- XX — RADIUS TABLE NUMBER

TLE

EXISTING R/W

BP: 0+00.00

EP: 0+55.49

BP: 0+52.47

CTH ES NW Island Top (1)					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	916+95.81	29.44' LT	852.80	409284.83	803862.26
02	917+03.21	30.16' LT	852.75	409285.66	803869.64
03	916+98.01	32.16' LT	852.70	409287.59	803864.41
04	917+04.17	32.76' LT	852.67	409288.28	803870.57
05	916+99.87	35.31' LT	852.69	409290.77	803866.23
06	917+00.89	37.03' LT	852.68	409292.50	803867.22
07	917+02.59	39.90' LT	852.66	409295.40	803868.88
08	917+05.19	34.48' LT	852.67	409290.02	803871.56
09	917+07.28	38.00' LT	852.69	409293.57	803873.59
10	917+14.59	31.84' LT	852.68	409287.52	803881.00
11	917+13.57	38.00' LT	852.59	409293.67	803879.88
12	917+15.57	38.00' LT	852.56	409293.70	803881.88
13	917+18.09	37.50' LT	852.64	409293.24	803884.41
14	917+17.90	43.00' LT	852.53	409298.73	803884.13
15	917+20.89	43.50' LT	852.59	409299.28	803887.12
16	917+15.57	43.00' LT	852.55	409298.70	803881.80
17	917+13.57	43.00' LT	852.56	409298.67	803879.80
18	917+06.54	43.00' LT	852.63	409298.56	803872.78

CTH ES NW Island Top (1)					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
19	917+05.97	43.87' LT	852.61	409299.42	803872.20
20	917+04.82	45.62' LT	852.58	409301.15	803871.02
21	917+01.79	41.13' LT	852.64	409296.62	803868.05
22	917+00.69	42.80' LT	852.61	409298.27	803866.93
23	917+07.13	50.35' LT	852.63	409305.92	803873.25
24	917+03.87	47.99' LT	852.66	409303.51	803870.03
25	917+02.80	47.26' LT	852.66	409302.76	803868.97
26	916+98.91	44.62' LT	852.69	409300.06	803865.12

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
12	150.00'	STH 20 WB	916+12.97	186.00' LT
		CTH ES	20+78.27	180.57' LT
13	215.00'	STH 20 WB	915+80.13	223.83' LT
		CTH ES	20+94.09	228.10' LT

STH 20

20+00

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - CTH ES NW	SHEET E

PRE_123

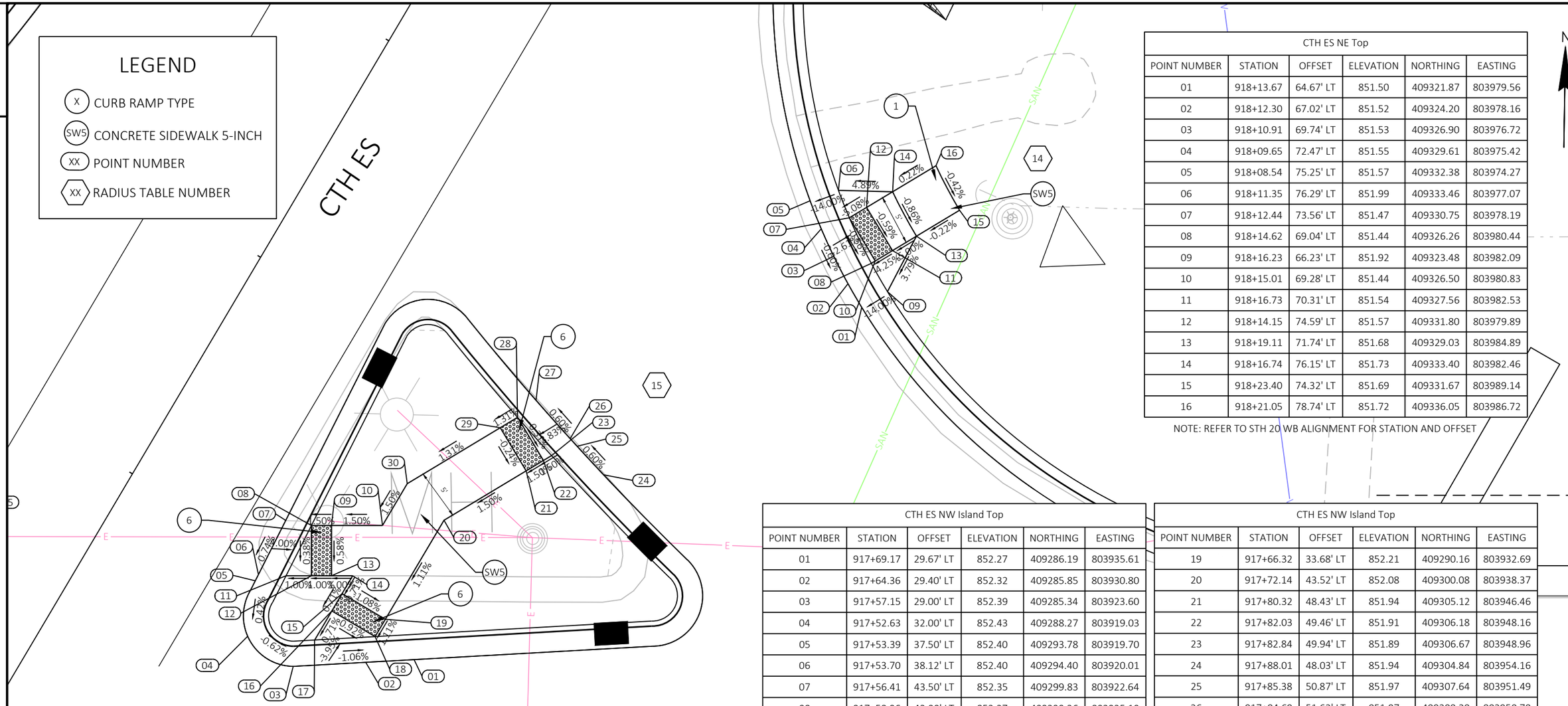
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 0231011-CR

PLOT DATE : 9/16/2021 3:39 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

LEGEND

- X — CURB RAMP TYPE
- SW5 — CONCRETE SIDEWALK 5-INCH
- XX — POINT NUMBER
- XX — RADIUS TABLE NUMBER



CTH ES NE Top					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	918+13.67	64.67' LT	851.50	409321.87	803979.56
02	918+12.30	67.02' LT	851.52	409324.20	803978.16
03	918+10.91	69.74' LT	851.53	409326.90	803976.72
04	918+09.65	72.47' LT	851.55	409329.61	803975.42
05	918+08.54	75.25' LT	851.57	409332.38	803974.27
06	918+11.35	76.29' LT	851.99	409333.46	803977.07
07	918+12.44	73.56' LT	851.47	409330.75	803978.19
08	918+14.62	69.04' LT	851.44	409326.26	803980.44
09	918+16.23	66.23' LT	851.92	409323.48	803982.09
10	918+15.01	69.28' LT	851.44	409326.50	803980.83
11	918+16.73	70.31' LT	851.54	409327.56	803982.53
12	918+14.15	74.59' LT	851.57	409331.80	803979.89
13	918+19.11	71.74' LT	851.68	409329.03	803984.89
14	918+16.74	76.15' LT	851.73	409333.40	803982.46
15	918+23.40	74.32' LT	851.69	409331.67	803989.14
16	918+21.05	78.74' LT	851.72	409336.05	803986.72

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

CTH ES NW Island Top					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	917+69.17	29.67' LT	852.27	409286.19	803935.61
02	917+64.36	29.40' LT	852.32	409285.85	803930.80
03	917+57.15	29.00' LT	852.39	409285.34	803923.60
04	917+52.63	32.00' LT	852.43	409288.27	803919.03
05	917+53.39	37.50' LT	852.40	409293.78	803919.70
06	917+53.70	38.12' LT	852.40	409294.40	803920.01
07	917+56.41	43.50' LT	852.35	409299.83	803922.64
08	917+58.96	43.00' LT	852.27	409299.36	803925.19
09	917+60.96	43.00' LT	852.24	409299.40	803927.19
10	917+66.03	43.00' LT	852.16	409299.47	803932.26
11	917+56.44	38.00' LT	852.31	409294.33	803922.75
12	917+58.96	38.00' LT	852.29	409294.37	803925.27
13	917+60.96	38.00' LT	852.27	409294.40	803927.27
14	917+63.07	38.00' LT	852.25	409294.43	803929.37
15	917+62.02	36.23' LT	852.26	409292.64	803928.35
16	917+61.00	34.51' LT	852.28	409290.90	803927.36
17	917+59.28	31.62' LT	852.30	409287.99	803925.69
18	917+65.30	31.96' LT	852.23	409288.42	803931.70

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

CTH ES NW Island Top					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
19	917+66.32	33.68' LT	852.21	409290.16	803932.69
20	917+72.14	43.52' LT	852.08	409300.08	803938.37
21	917+80.32	48.43' LT	851.94	409305.12	803946.46
22	917+82.03	49.46' LT	851.91	409306.18	803948.16
23	917+82.84	49.94' LT	851.89	409306.67	803948.96
24	917+88.01	48.03' LT	851.94	409304.84	803954.16
25	917+85.38	50.87' LT	851.97	409307.64	803951.49
26	917+84.69	51.62' LT	851.97	409308.38	803950.78
27	917+81.30	55.43' LT	852.00	409312.14	803947.33
28	917+79.45	53.74' LT	851.92	409310.42	803945.52
29	917+77.74	52.71' LT	851.95	409309.36	803943.82
30	917+68.49	47.15' LT	852.09	409303.66	803934.65

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
14	60.00'	STH 20 WB	918+64.84	96.00' LT
		CTH ES	21+29.21	82.00' RT
15	265.69'	STH 20 WB	919+81.40	230.21' LT
		CTH ES	23+04.09	113.88' RT

CTH ES NE CURB RAMP

STH 20

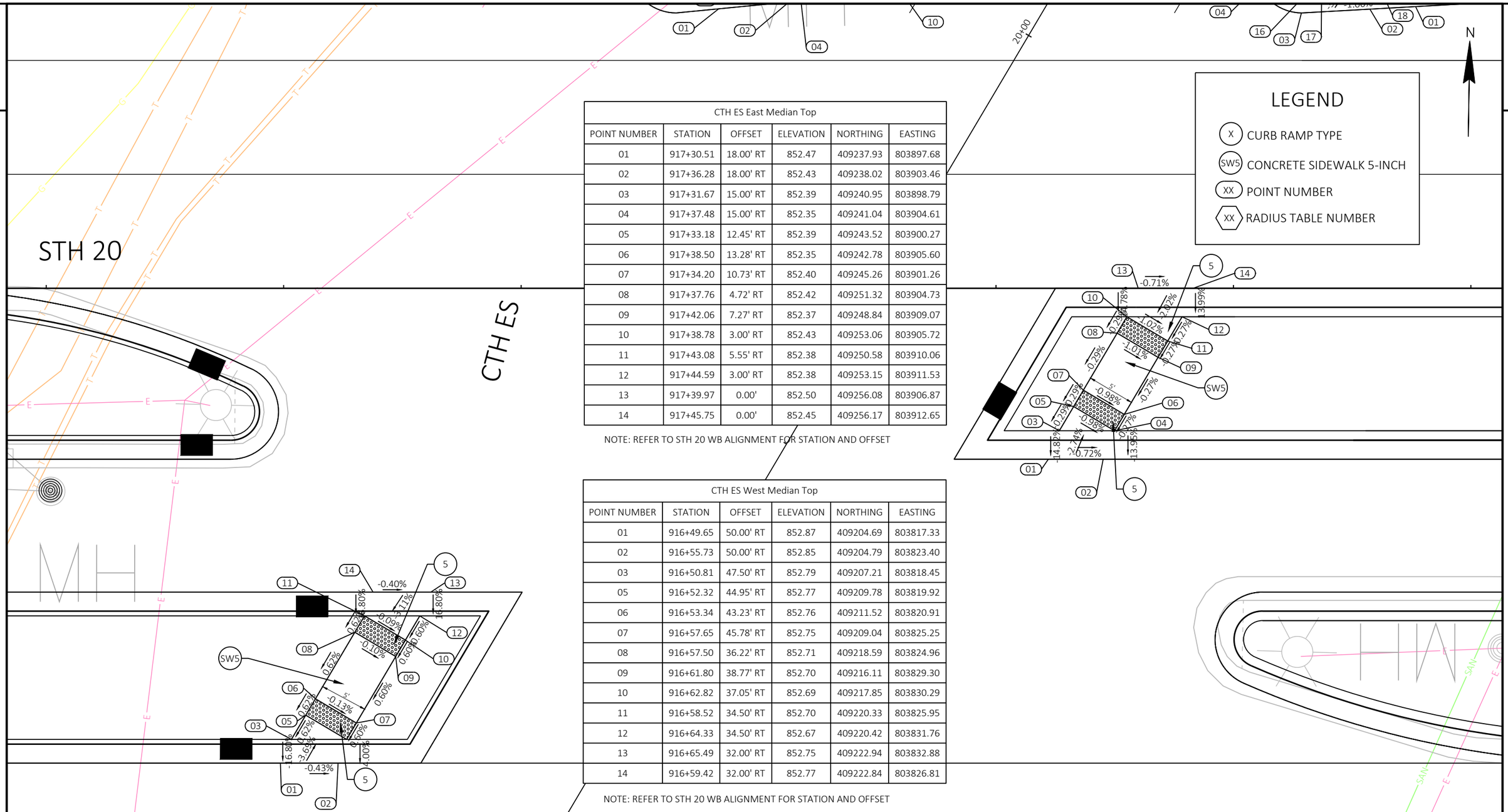
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - CTH ES NE	SHEET E

PRE_124

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 0231012-CR

PLOT DATE : 9/16/2021 1:22 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



CTH ES East Median Top

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	917+30.51	18.00' RT	852.47	409237.93	803897.68
02	917+36.28	18.00' RT	852.43	409238.02	803903.46
03	917+31.67	15.00' RT	852.39	409240.95	803898.79
04	917+37.48	15.00' RT	852.35	409241.04	803904.61
05	917+33.18	12.45' RT	852.39	409243.52	803900.27
06	917+38.50	13.28' RT	852.35	409242.78	803905.60
07	917+34.20	10.73' RT	852.40	409245.26	803901.26
08	917+37.76	4.72' RT	852.42	409251.32	803904.73
09	917+42.06	7.27' RT	852.37	409248.84	803909.07
10	917+38.78	3.00' RT	852.43	409253.06	803905.72
11	917+43.08	5.55' RT	852.38	409250.58	803910.06
12	917+44.59	3.00' RT	852.38	409253.15	803911.53
13	917+39.97	0.00'	852.50	409256.08	803906.87
14	917+45.75	0.00'	852.45	409256.17	803912.65

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

CTH ES West Median Top

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	916+49.65	50.00' RT	852.87	409204.69	803817.33
02	916+55.73	50.00' RT	852.85	409204.79	803823.40
03	916+50.81	47.50' RT	852.79	409207.21	803818.45
05	916+52.32	44.95' RT	852.77	409209.78	803819.92
06	916+53.34	43.23' RT	852.76	409211.52	803820.91
07	916+57.65	45.78' RT	852.75	409209.04	803825.25
08	916+57.50	36.22' RT	852.71	409218.59	803824.96
09	916+61.80	38.77' RT	852.70	409216.11	803829.30
10	916+62.82	37.05' RT	852.69	409217.85	803830.29
11	916+58.52	34.50' RT	852.70	409220.33	803825.95
12	916+64.33	34.50' RT	852.67	409220.42	803831.76
13	916+65.49	32.00' RT	852.75	409222.94	803832.88
14	916+59.42	32.00' RT	852.77	409222.84	803826.81

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

CTH ES MEDIAN CURB RAMP

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - CTH ES MEDIAN	SHEET E

PRE_125

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 0231013-CR

PLOT DATE : 9/16/2021 11:45 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

CTH ES SW Island Top					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	916+10.58	100.66' RT	852.60	409153.44	803779.04
02	916+14.60	105.47' RT	852.53	409148.69	803783.13
03	916+13.13	99.77' RT	852.51	409154.37	803781.57
04	916+16.37	103.67' RT	852.46	409150.52	803784.87
05	916+18.10	102.67' RT	852.46	409151.55	803786.58
06	916+13.85	99.35' RT	852.52	409154.80	803782.29
07	916+15.58	98.35' RT	852.54	409155.83	803784.00
08	916+27.03	97.46' RT	852.55	409156.89	803795.44
09	916+23.39	93.80' RT	852.63	409160.50	803791.74
10	916+30.72	91.23' RT	852.74	409163.18	803799.03
11	916+35.62	91.23' RT	852.77	409163.26	803803.93
12	916+37.62	91.23' RT	852.60	409163.29	803805.93
13	916+39.78	92.50' RT	852.68	409162.05	803808.11
14	916+40.28	91.50' RT	852.69	409163.06	803808.60
15	916+39.25	88.00' RT	852.63	409166.54	803807.51
16	916+37.62	88.00' RT	852.65	409166.51	803805.88
17	916+35.62	88.00' RT	852.72	409166.48	803803.88
18	916+32.63	88.00' RT	852.85	409166.44	803800.89

CTH ES SW Island Top					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
19	916+33.68	86.23' RT	852.90	409168.22	803801.92
20	916+40.15	86.23' RT	852.65	409168.32	803808.38
21	916+42.86	86.37' RT	852.73	409168.22	803811.10
22	916+43.17	85.50' RT	852.74	409169.10	803811.39
23	916+42.92	81.75' RT	852.77	409172.84	803811.09
24	916+34.70	84.51' RT	852.87	409169.96	803802.91
25	916+36.41	81.62' RT	852.75	409172.87	803804.57
26	916+38.55	79.01' RT	852.81	409175.52	803806.67
27	916+31.33	79.40' RT	852.87	409175.01	803799.46
28	916+26.52	79.67' RT	852.90	409174.67	803794.66
29	916+30.40	81.96' RT	852.80	409172.44	803798.57
30	916+29.38	83.68' RT	852.98	409170.71	803797.58

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

STH 20

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
16	60.00'	STH 20 WB	915+21.61	150.45' RT
		CTH ES	17+38.97	83.00' LT
17	120.00'	STH 20 WB	915+16.27	179.31' RT
		CTH ES	17+10.18	70.34' LT

N

CTH ES

BP: 0+00.00

EP: 0+49.04

EP: 0+54.25

LEGEND

- X — CURB RAMP TYPE
- SW5 — CONCRETE SIDEWALK 5-INCH
- XX — POINT NUMBER
- XX — RADIUS TABLE NUMBER

CTH ES SW CURB RAMP

CTH ES SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	0+72.00	0.00'	852.00	409124.39	803750.01
02	0+60.44	0.00' RT	852.15	409134.61	803744.65
03	0+70.96	2.50' RT	852.43	409124.37	803747.31
04	0+67.82	2.50' RT	851.98	409127.10	803746.06
05	0+62.60	2.50' RT	852.04	409131.49	803743.66
06	0+59.47	2.50' RT	852.58	409134.02	803742.05
07	0+68.01	4.49' RT	852.12	409126.07	803744.35
08	0+68.38	8.00' RT	852.35	409124.25	803741.33
09	0+69.00	13.00' RT	852.38	409121.65	803737.03

CTH ES SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
10	0+62.60	13.00' RT	852.49	409126.07	803734.67
11	0+62.60	8.00' RT	852.42	409128.65	803738.95
12	0+62.60	4.72' RT	852.19	409130.35	803741.76
13	0+62.60	2.72' RT	852.05	409131.38	803743.48
14	0+31.30	8.00' RT	852.90	409147.27	803719.64
15	0+31.30	13.00' RT	852.97	409142.90	803717.22
16	-0+00.00	13.00' RT	853.45	409148.79	803693.70
17	-0+00.00	8.00' RT	853.37	409153.79	803693.63

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

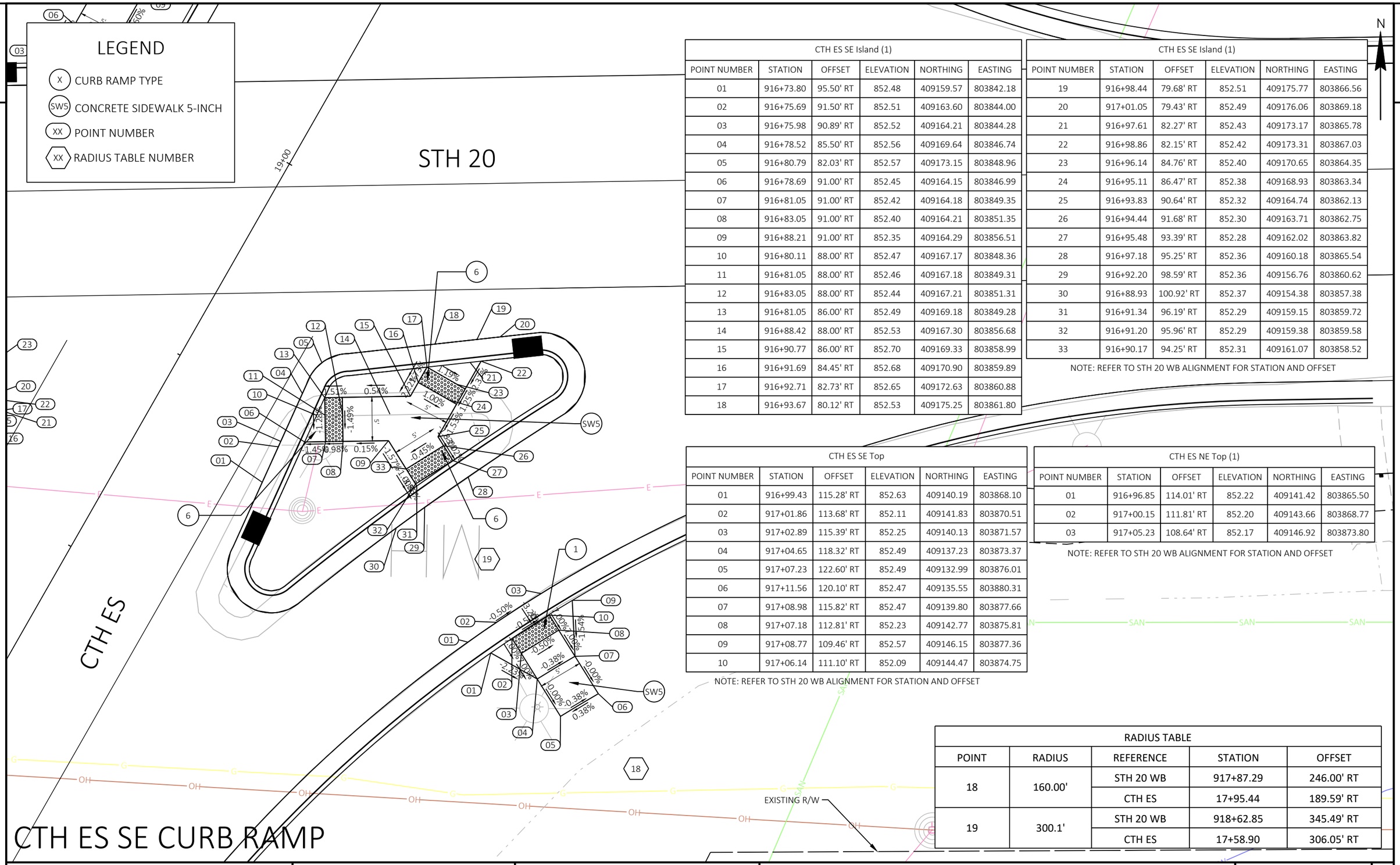
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - CTH ES SW	SHEET E

PRE_126

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 0231014-CR

PLOT DATE : 9/16/2021 2:51 PM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



CTH ES SE Island (1)					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	916+73.80	95.50' RT	852.48	409159.57	803842.18
02	916+75.69	91.50' RT	852.51	409163.60	803844.00
03	916+75.98	90.89' RT	852.52	409164.21	803844.28
04	916+78.52	85.50' RT	852.56	409169.64	803846.74
05	916+80.79	82.03' RT	852.57	409173.15	803848.96
06	916+78.69	91.00' RT	852.45	409164.15	803846.99
07	916+81.05	91.00' RT	852.42	409164.18	803849.35
08	916+83.05	91.00' RT	852.40	409164.21	803851.35
09	916+88.21	91.00' RT	852.35	409164.29	803856.51
10	916+80.11	88.00' RT	852.47	409167.17	803848.36
11	916+81.05	88.00' RT	852.46	409167.18	803849.31
12	916+83.05	88.00' RT	852.44	409167.21	803851.31
13	916+81.05	86.00' RT	852.49	409169.18	803849.28
14	916+88.42	88.00' RT	852.53	409167.30	803856.68
15	916+90.77	86.00' RT	852.70	409169.33	803858.99
16	916+91.69	84.45' RT	852.68	409170.90	803859.89
17	916+92.71	82.73' RT	852.65	409172.63	803860.88
18	916+93.67	80.12' RT	852.53	409175.25	803861.80

CTH ES SE Island (1)					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
19	916+98.44	79.68' RT	852.51	409175.77	803866.56
20	917+01.05	79.43' RT	852.49	409176.06	803869.18
21	916+97.61	82.27' RT	852.43	409173.17	803865.78
22	916+98.86	82.15' RT	852.42	409173.31	803867.03
23	916+96.14	84.76' RT	852.40	409170.65	803864.35
24	916+95.11	86.47' RT	852.38	409168.93	803863.34
25	916+93.83	90.64' RT	852.32	409164.74	803862.13
26	916+94.44	91.68' RT	852.30	409163.71	803862.75
27	916+95.48	93.39' RT	852.28	409162.02	803863.82
28	916+97.18	95.25' RT	852.36	409160.18	803865.54
29	916+92.20	98.59' RT	852.36	409156.76	803860.62
30	916+88.93	100.92' RT	852.37	409154.38	803857.38
31	916+91.34	96.19' RT	852.29	409159.15	803859.72
32	916+91.20	95.96' RT	852.29	409159.38	803859.58
33	916+90.17	94.25' RT	852.31	409161.07	803858.52

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

CTH ES SE Top					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	916+99.43	115.28' RT	852.63	409140.19	803868.10
02	917+01.86	113.68' RT	852.11	409141.83	803870.51
03	917+02.89	115.39' RT	852.25	409140.13	803871.57
04	917+04.65	118.32' RT	852.49	409137.23	803873.37
05	917+07.23	122.60' RT	852.49	409132.99	803876.01
06	917+11.56	120.10' RT	852.47	409135.55	803880.31
07	917+08.98	115.82' RT	852.47	409139.80	803877.66
08	917+07.18	112.81' RT	852.23	409142.77	803875.81
09	917+08.77	109.46' RT	852.57	409146.15	803877.36
10	917+06.14	111.10' RT	852.09	409144.47	803874.75

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

CTH ES NE Top (1)					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	916+96.85	114.01' RT	852.22	409141.42	803865.50
02	917+00.15	111.81' RT	852.20	409143.66	803868.77
03	917+05.23	108.64' RT	852.17	409146.92	803873.80

NOTE: REFER TO STH 20 WB ALIGNMENT FOR STATION AND OFFSET

RADIUS TABLE				
POINT	RADIUS	REFERENCE	STATION	OFFSET
18	160.00'	STH 20 WB	917+87.29	246.00' RT
		CTH ES	17+95.44	189.59' RT
19	300.1'	STH 20 WB	918+62.85	345.49' RT
		CTH ES	17+58.90	306.05' RT

CTH ES SE CURB RAMP

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CURB RAMP DETAIL - CTH ES SE	SHEET E

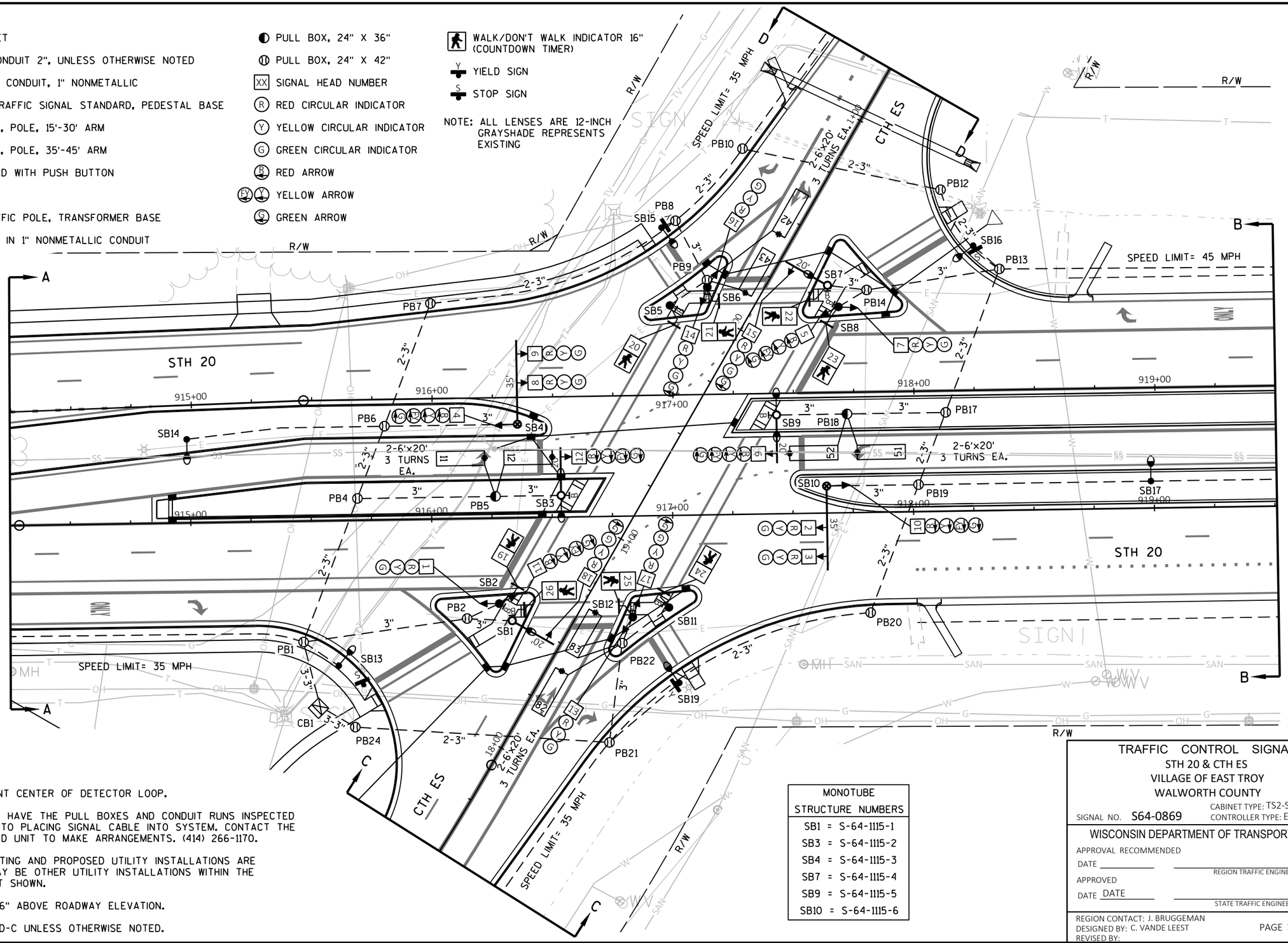
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 0231015-CR
PLOT DATE : 9/16/2021 1:28 PM
PLOT BY : DE JESUS ORTIZ, N
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

PRE_127

LEGEND

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

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS
EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURE NUMBERS
SB1 = S-64-1115-1
SB3 = S-64-1115-2
SB4 = S-64-1115-3
SB7 = S-64-1115-4
SB9 = S-64-1115-5
SB10 = S-64-1115-6

TRAFFIC CONTROL SIGNAL
STH 20 & CTH ES
VILLAGE OF EAST TROY
WALWORTH COUNTY

SIGNAL NO. S64-0869
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE _____ REGION TRAFFIC ENGINEER
APPROVED
DATE DATE _____ STATE TRAFFIC ENGINEER

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: C. VANDE LEEST
REVISED BY:

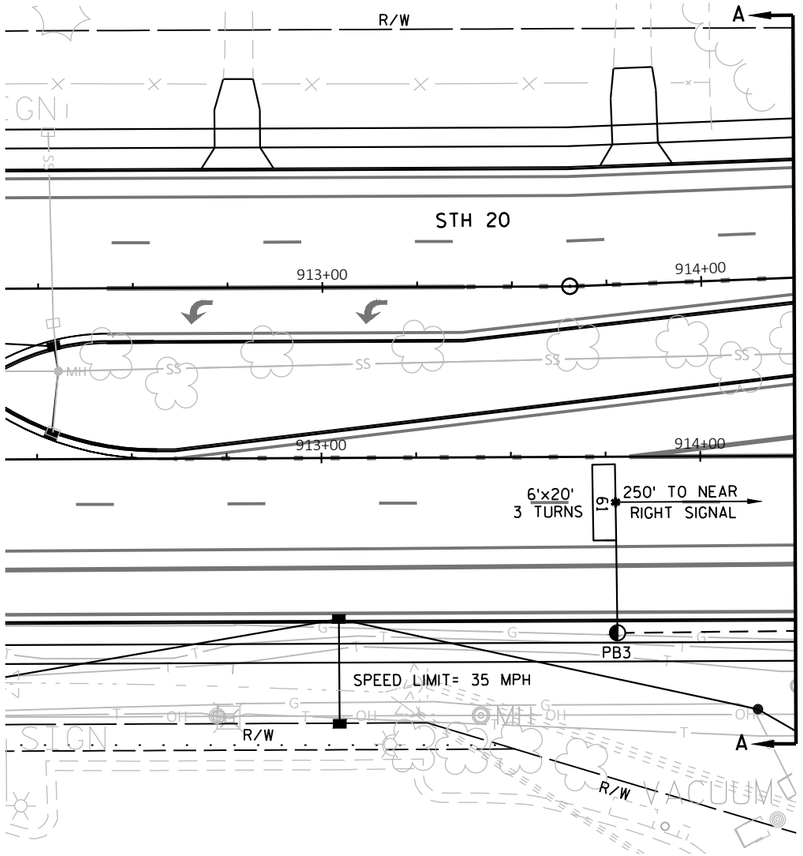
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH	TRAFFIC SIGNAL PLAN	SHEET E

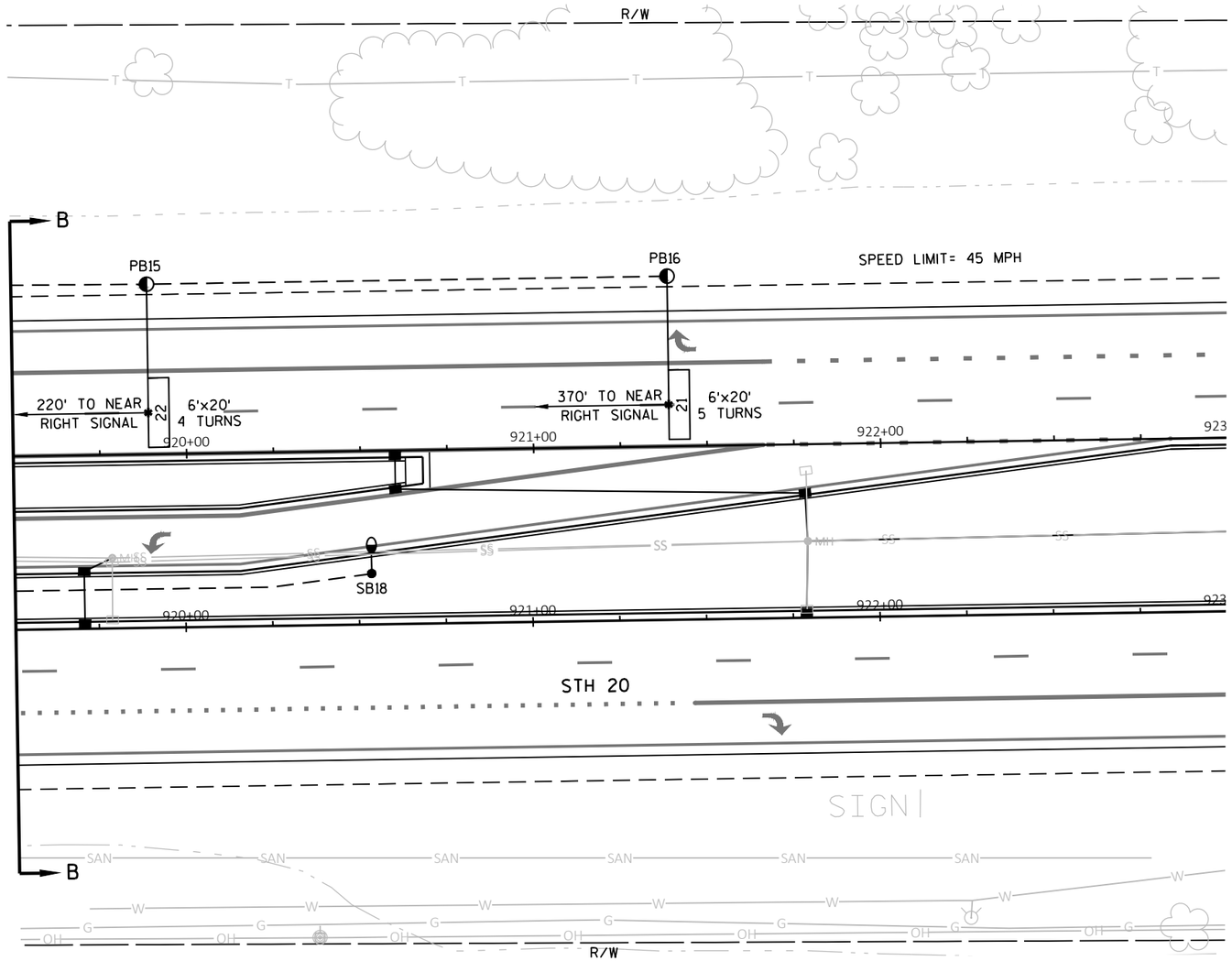
PRE_128

FILE NAME : N:\PDS\C3D\CAD\26980300\SIG\S64-0869\S64-0869_20.DWG
LAYOUT NAME - S64-0869_pg1
PLOT DATE : 8/16/2021 12:59 PM
PLOT BY : VANDE LEEST, CYNTHIA
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

N





TRAFFIC CONTROL SIGNAL
STH 20 & CTH ES
VILLAGE OF EAST TROY
WALWORTH COUNTY

SIGNAL NO. S64-0869

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: C. VANDE LEEST
REVISED BY:

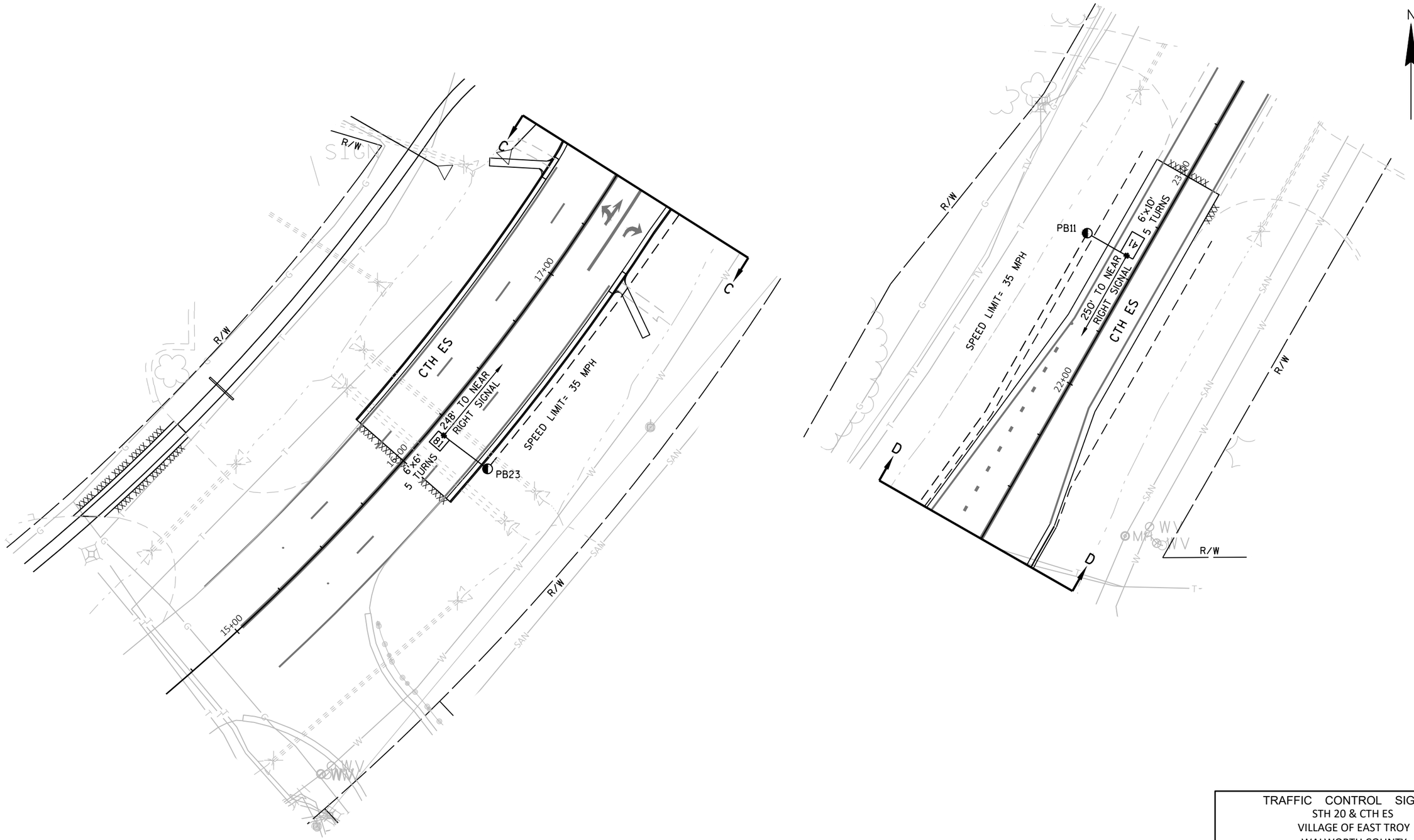
PAGE 2 OF 4

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH	TRAFFIC SIGNAL PLAN	SHEET E

PRE_129

FILE NAME : N:\PDS\C3D\CAD\26980300\SIG\S64-0869\S64-0869_20.DWG
LAYOUT NAME - S64-0869_pg2

PLOT DATE : 8/16/2021 12:59 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : ##########



TRAFFIC CONTROL SIGNAL
STH 20 & CTH ES
VILLAGE OF EAST TROY
WALWORTH COUNTY

SIGNAL NO. S64-0869

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 4

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH	TRAFFIC SIGNAL PLAN	SHEET E

PRE_130

FILE NAME : N:\PDS\C3D\CAD\26980300\SIG\S64-0869\S64-0869_20.DWG
LAYOUT NAME - S64-0869_pg3

PLOT DATE : 8/16/2021 1:00 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. Marking Curb Epoxy
19. Marking Island Nose Epoxy
20. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

N

FRONTAGE ROAD

HILL TOP DRIVE

STH 20

884 885 886 887 888 889 890

Double

EDWARDS STREET

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_131

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024501_pm

PLOT DATE : 8/25/2021 8:32 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. Marking Curb Epoxy
19. Marking Island Nose Epoxy
20. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)
MARKING ARROW EPOXY (TYPE 3)
MARKING ARROW EPOXY (TYPE 4)
MARKING ARROW EPOXY (TYPE 5 LANE DROP)

N

EAST DR

STH 20

BYRNES STREET

890 891 892 893 894 895 896 897

2

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_132

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024502_pm

PLOT DATE : 8/25/2021 8:32 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

STERLING CIRCLE

STH 20

SIGN

MH

SIGN

SIGN

897 898 899 900 901 902 903 904

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET PRE_133 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024503_pm

PLOT DATE : 8/25/2021 8:33 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

PAVEMENT MARKING LEGEND

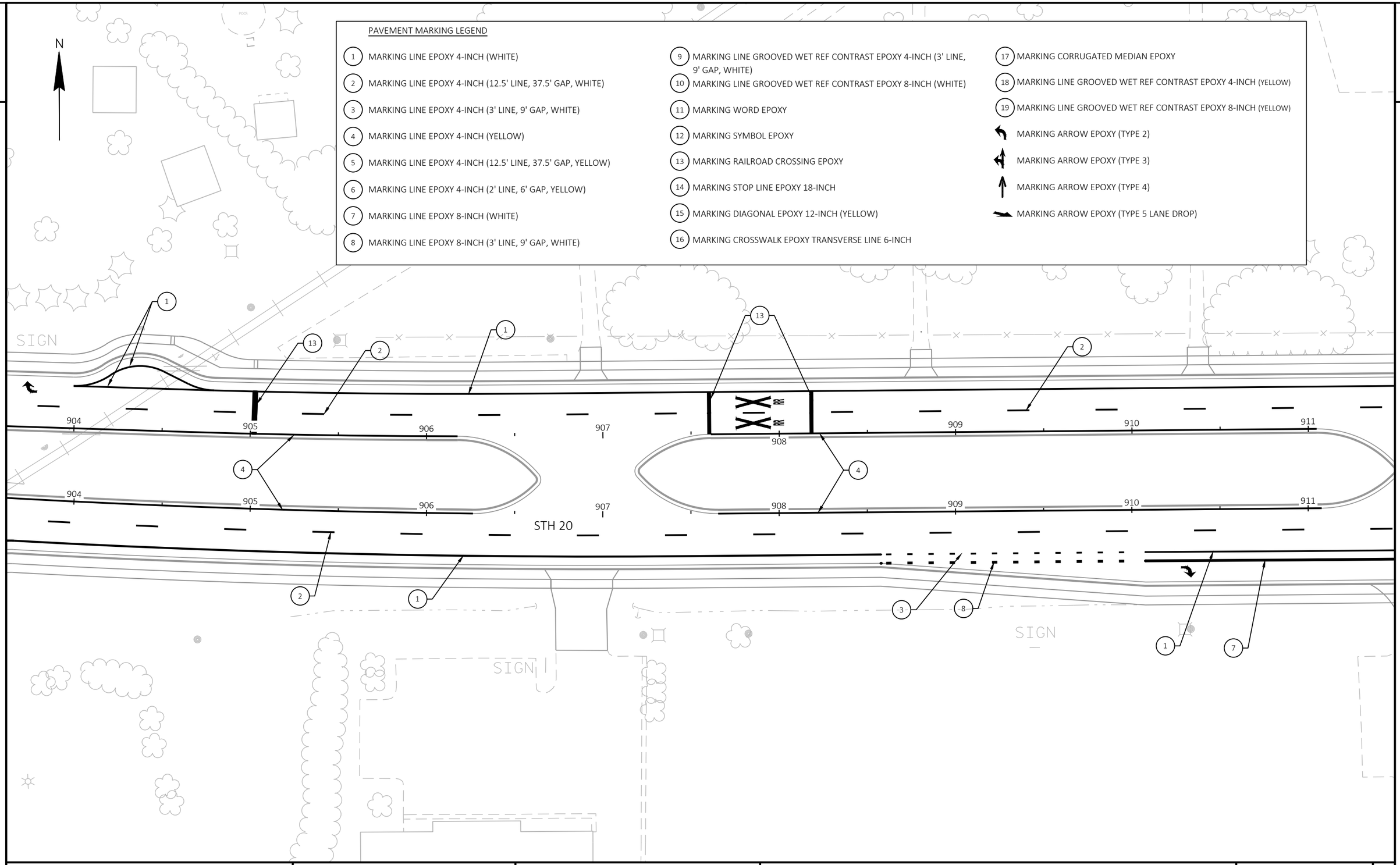
1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_134

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024504_pm

PLOT DATE : 8/25/2021 8:33 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)
- MARKING ARROW EPOXY (TYPE 2)
- MARKING ARROW EPOXY (TYPE 3)
- MARKING ARROW EPOXY (TYPE 4)
- MARKING ARROW EPOXY (TYPE 5 LANE DROP)

N

STH 20

CTH ES

SIGN

VACUUM

CANOPY

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_135

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024505_pm

PLOT DATE : 8/25/2021 8:34 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE , 9' GAP WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

N

I-43 SB OFF-RAMP

STH 20

I-43 SB ON-RAMP

SIGN

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024506_pm

PLOT DATE : 8/25/2021 8:34 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

N

I-43 SB OFF-RAMP

I-43 SB ON-RAMP

IH 43

IH 43

925 926 927 928 929 930 931 932

925 926 927 928 929 930 931 932

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_137

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024507_pm

PLOT DATE : 8/25/2021 8:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

I-43 NB ON-RAMP

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

SIGN

SIGN

932 933 934 935 936 937 938

STH 20

I-43 NB OFF-RAMP

MH

MH

MH

MH

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_138

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024508_pm

PLOT DATE : 8/25/2021 8:36 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

Double

CTH L

SIGN

MH

STH 20

938 939 940 941 942 943 944 945

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_139

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024509_pm
PLOT DATE : 8/25/2021 8:36 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. Marking Curb Epoxy
19. Marking Island Nose Epoxy
20. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

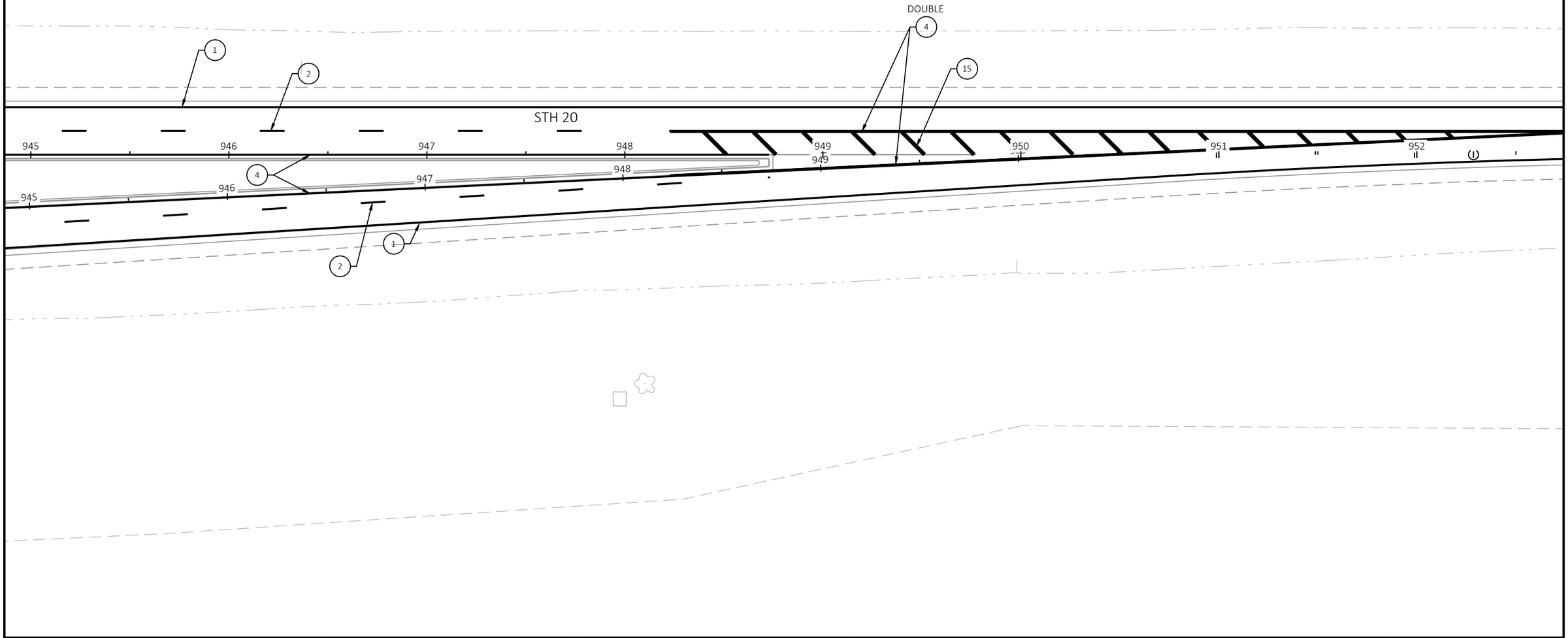
MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

N



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_140

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024510_pm

PLOT DATE : 8/25/2021 8:37 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (' LINE, 9' GAP, WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. Marking Curb Epoxy
19. Marking Island Nose Epoxy
20. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

N

STH 20

952 953 954 955 956 957 958 959

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

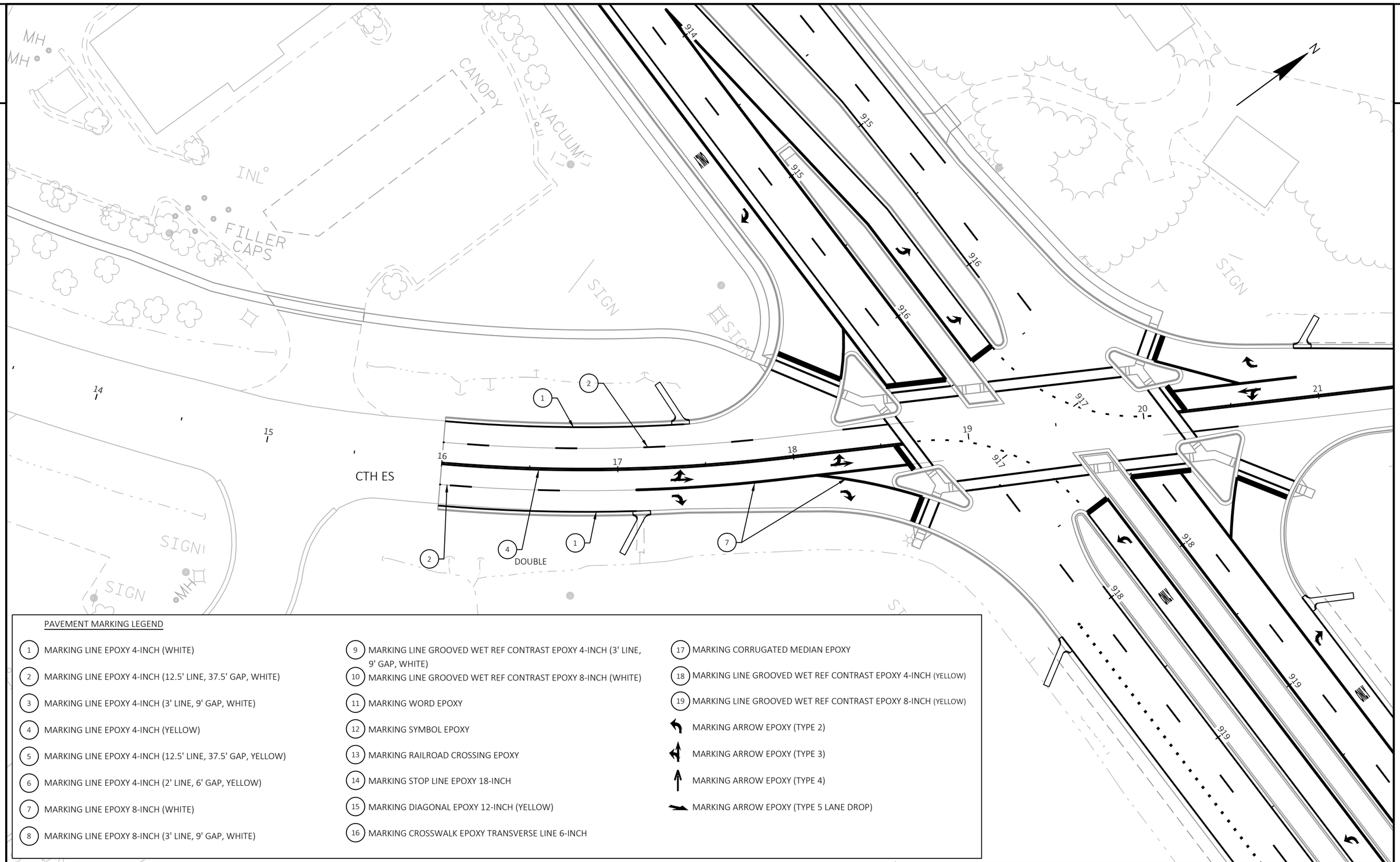
PRE_141

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024511_pm

PLOT DATE : 8/25/2021 8:37 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024512_pm

PLOT DATE : 8/25/2021 8:38 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

916

917

917

918

918

919

919

19 20 21 22 23 24 25 26

CTH ES

1

4 Double

1

MH

SIGN

SIGN

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

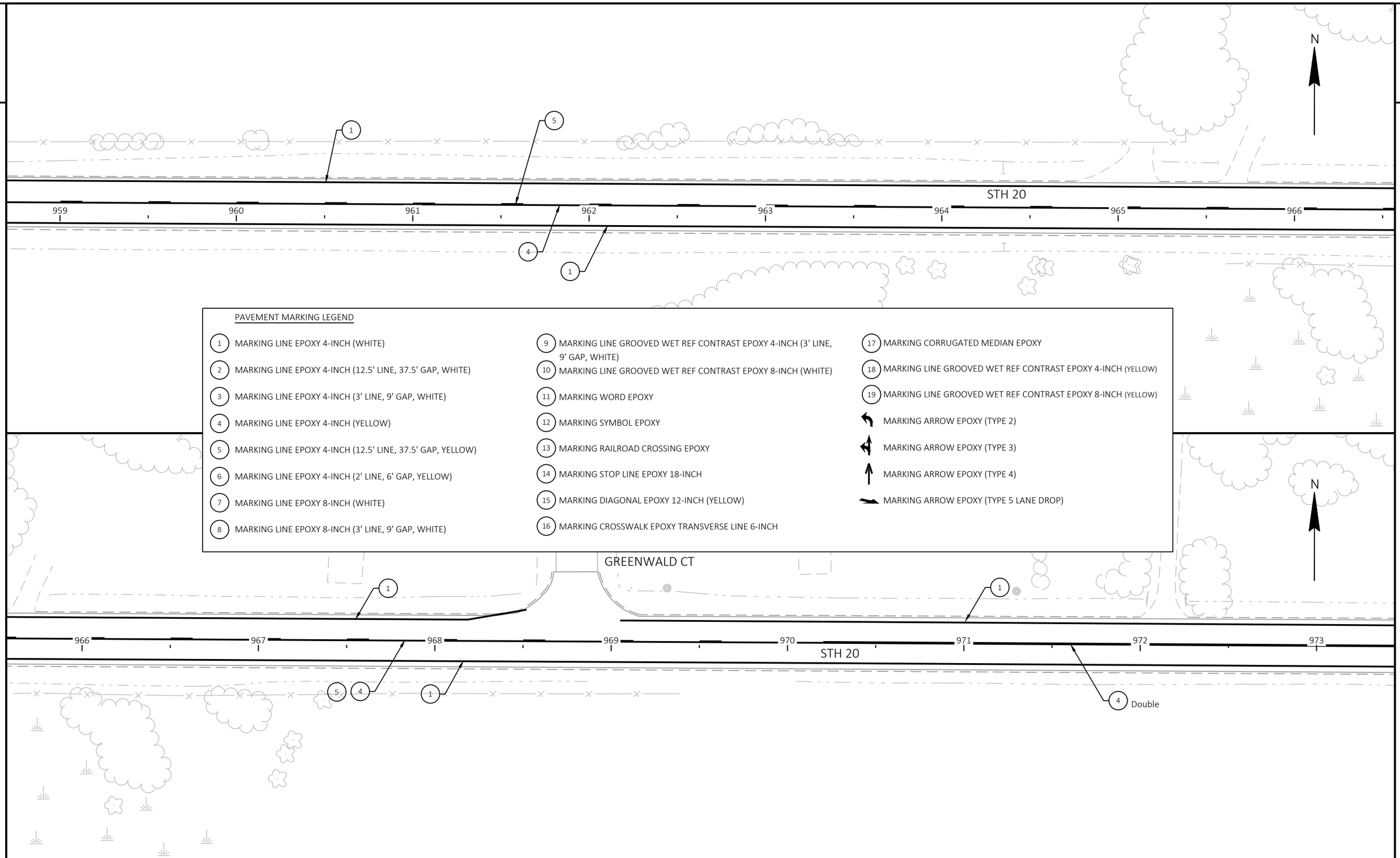
PRE_143

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024513_pm

PLOT DATE : 8/25/2021 8:38 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

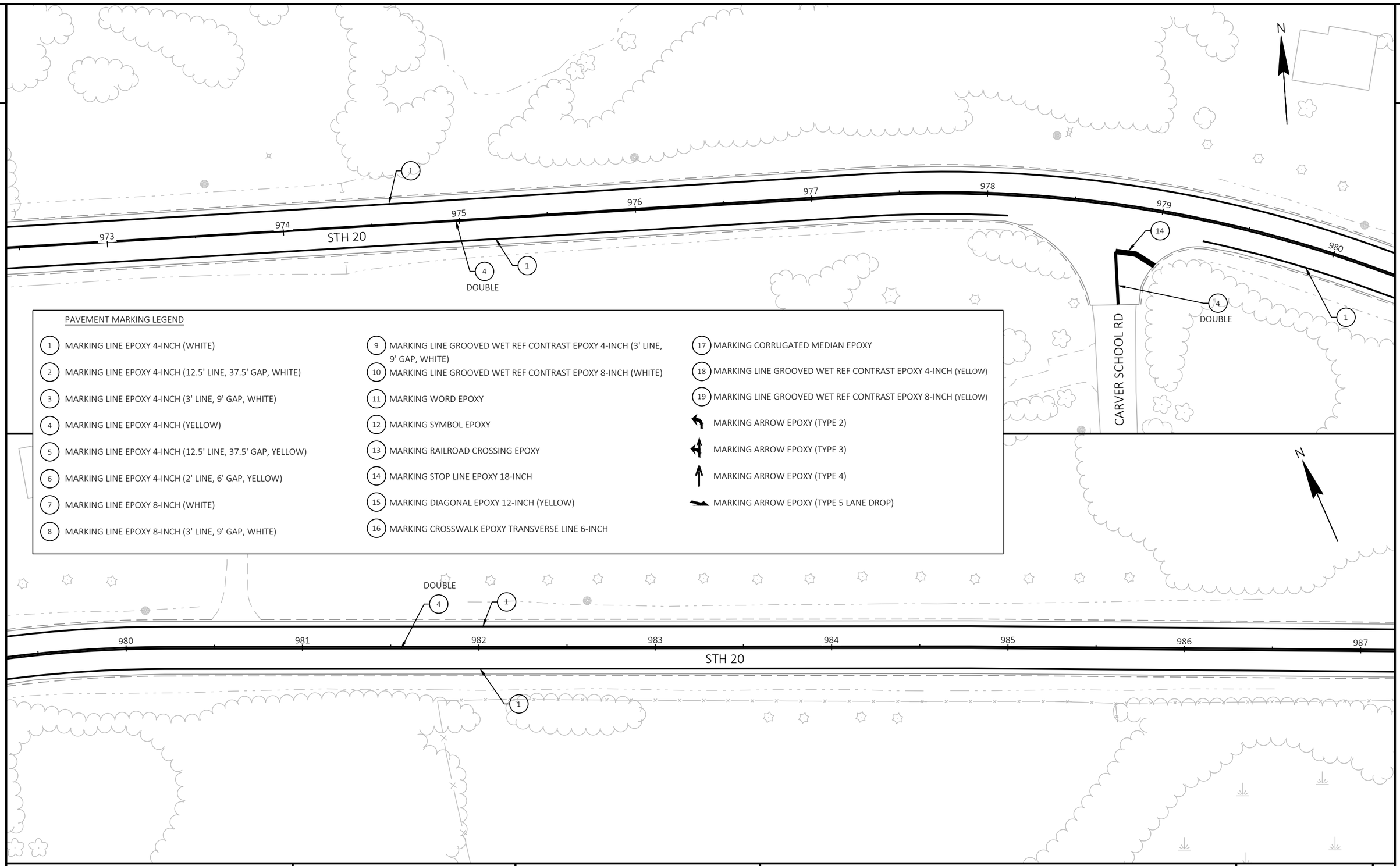
MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_144



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

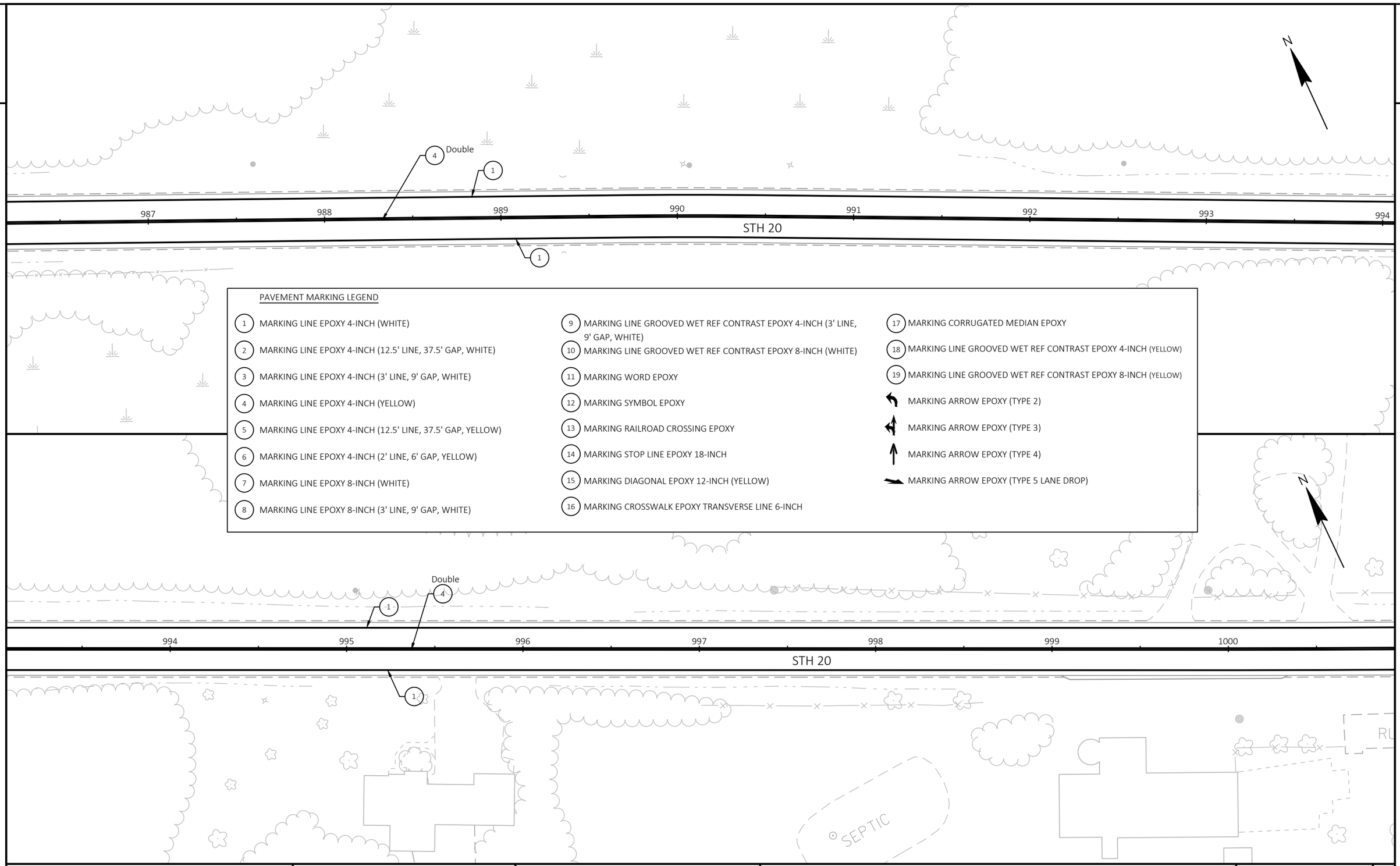
PRE_145

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024515_pm

PLOT DATE : 8/25/2021 8:40 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_146

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024516_pm

PLOT DATE : 8/25/2021 8:41 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2

N

1

4 Double

1000 1001 1002 1003 1004 1005 STH 20 1006 1007

1

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)
19. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (YELLOW)

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

N

14

HILLBURN MILL RD

4 Double

1

1

1007 1008 1009 1010 1011 STH 20 1012 1013 1014

1

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

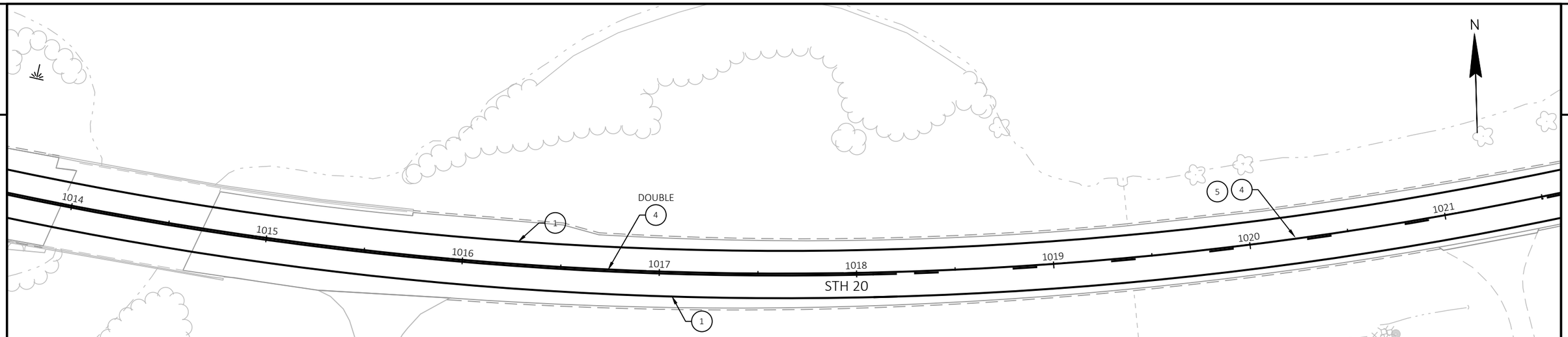
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024517_pm

PLOT DATE : 8/25/2021 8:42 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

PRE_147

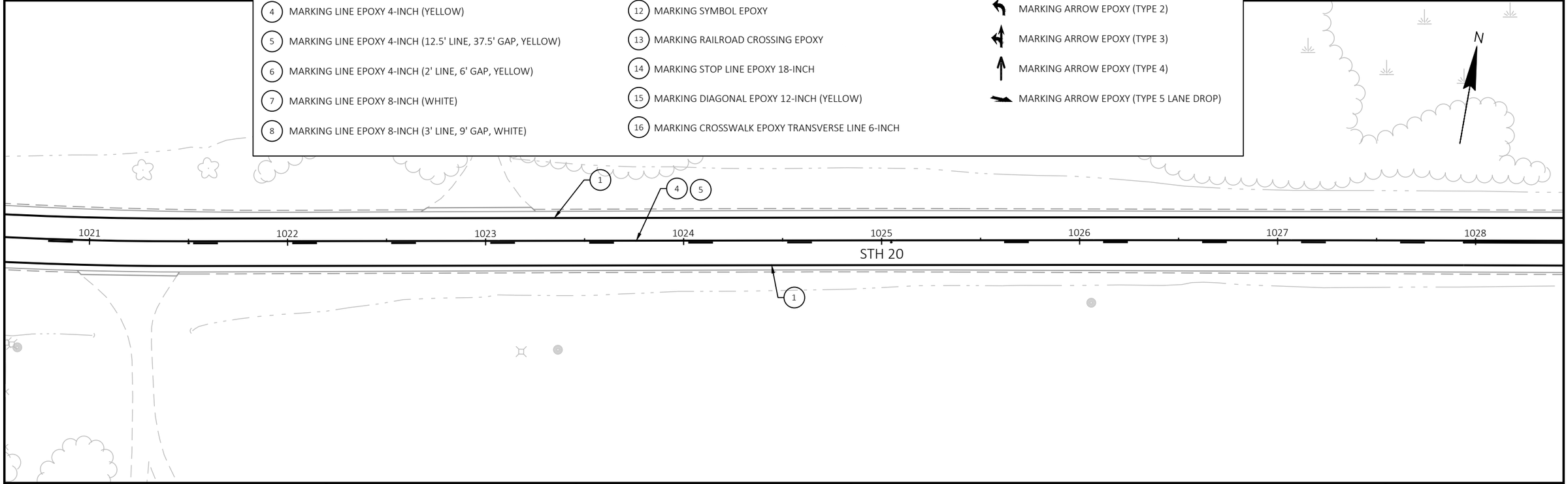
WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY
- MARKING ARROW EPOXY (TYPE 2)
- MARKING ARROW EPOXY (TYPE 3)
- MARKING ARROW EPOXY (TYPE 4)
- MARKING ARROW EPOXY (TYPE 5 LANE DROP)



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

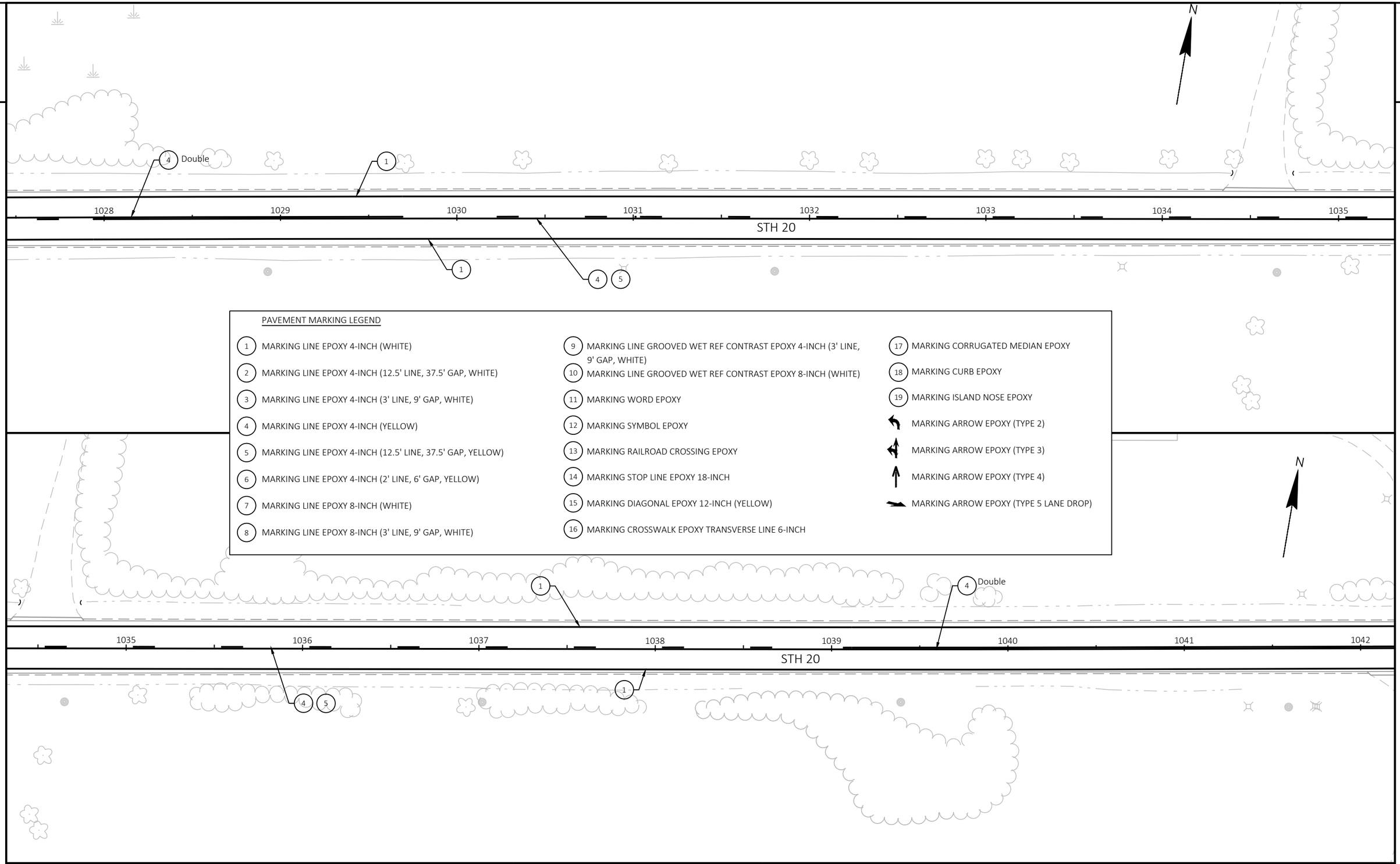
PRE_148

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024518_pm

PLOT DATE : 8/25/2021 8:43 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET

PRE_149 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024519_pm

PLOT DATE : 8/25/2021 8:44 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

4 Double

1

1042 1043 1044 1045 1046 1047 1048 1049

STH 20

1

PAVEMENT MARKING LEGEND

1 MARKING LINE EPOXY 4-INCH (WHITE)

2 MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)

3 MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)

4 MARKING LINE EPOXY 4-INCH (YELLOW)

5 MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)

6 MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)

7 MARKING LINE EPOXY 8-INCH (WHITE)

8 MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)

10 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)

11 MARKING WORD EPOXY

12 MARKING SYMBOL EPOXY

13 MARKING RAILROAD CROSSING EPOXY

14 MARKING STOP LINE EPOXY 18-INCH

15 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

16 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

17 MARKING CORRUGATED MEDIAN EPOXY

18 MARKING CURB EPOXY

19 MARKING ISLAND NOSE EPOXY

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

N

WEBER RD

14

1

1

1

4 Double

1049 1050 1051 1052 1053 1054 1055

STH 20

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

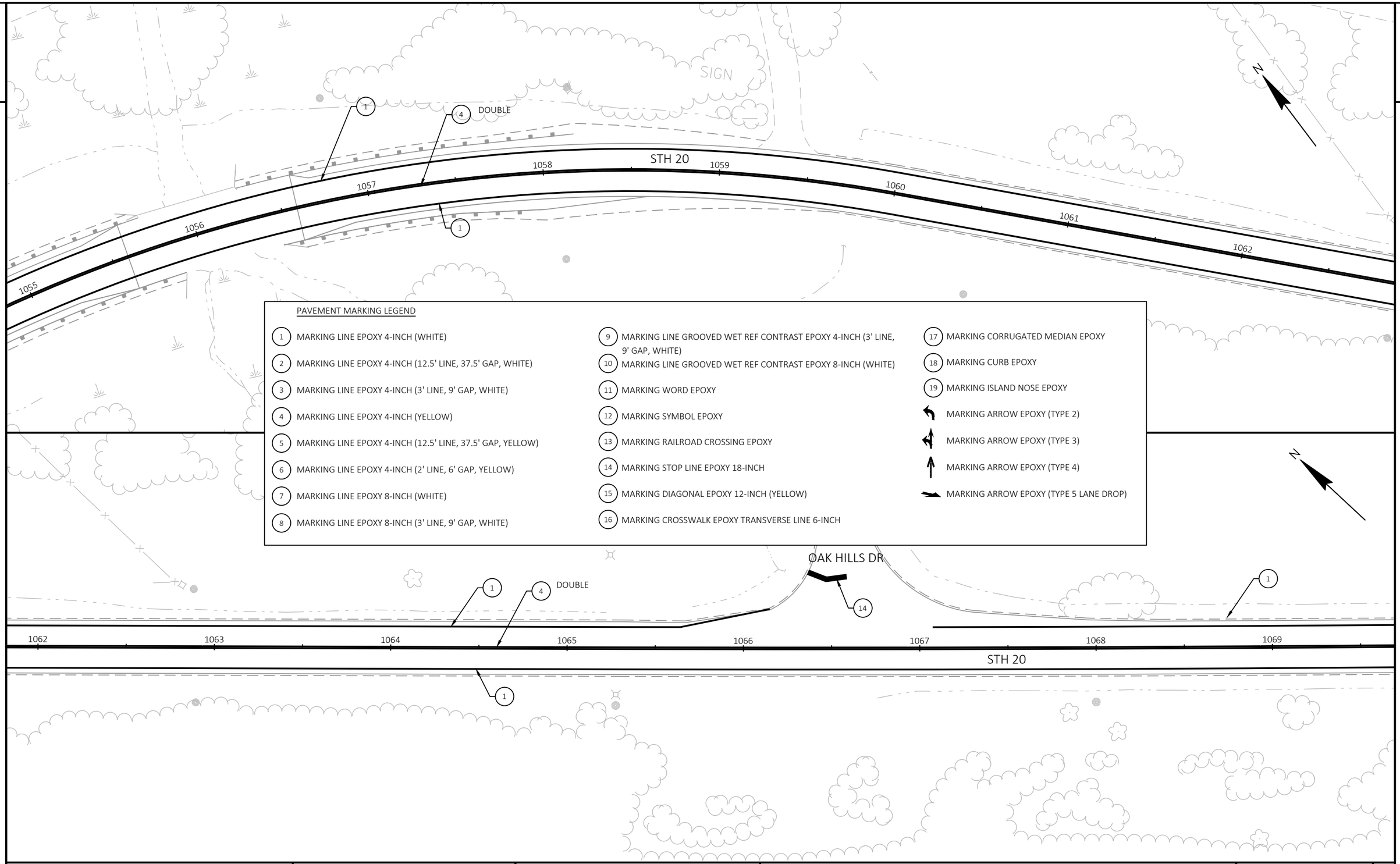
PRE_150

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024520_pm

PLOT DATE : 8/25/2021 8:45 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY
- MARKING ARROW EPOXY (TYPE 2)
- MARKING ARROW EPOXY (TYPE 3)
- MARKING ARROW EPOXY (TYPE 4)
- MARKING ARROW EPOXY (TYPE 5 LANE DROP)

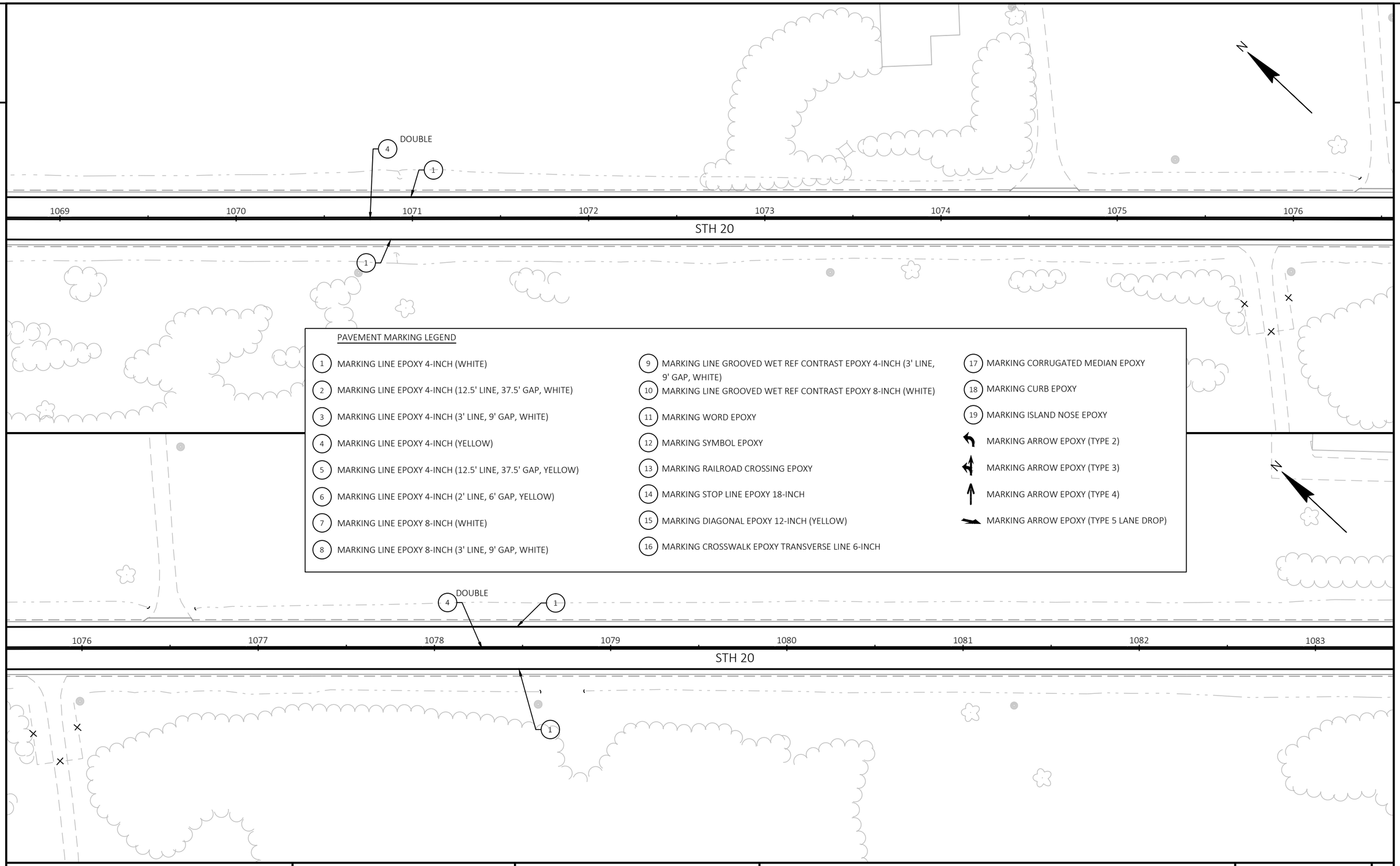
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_151

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024521_pm
PLOT DATE : 8/25/2021 8:46 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

2



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_152

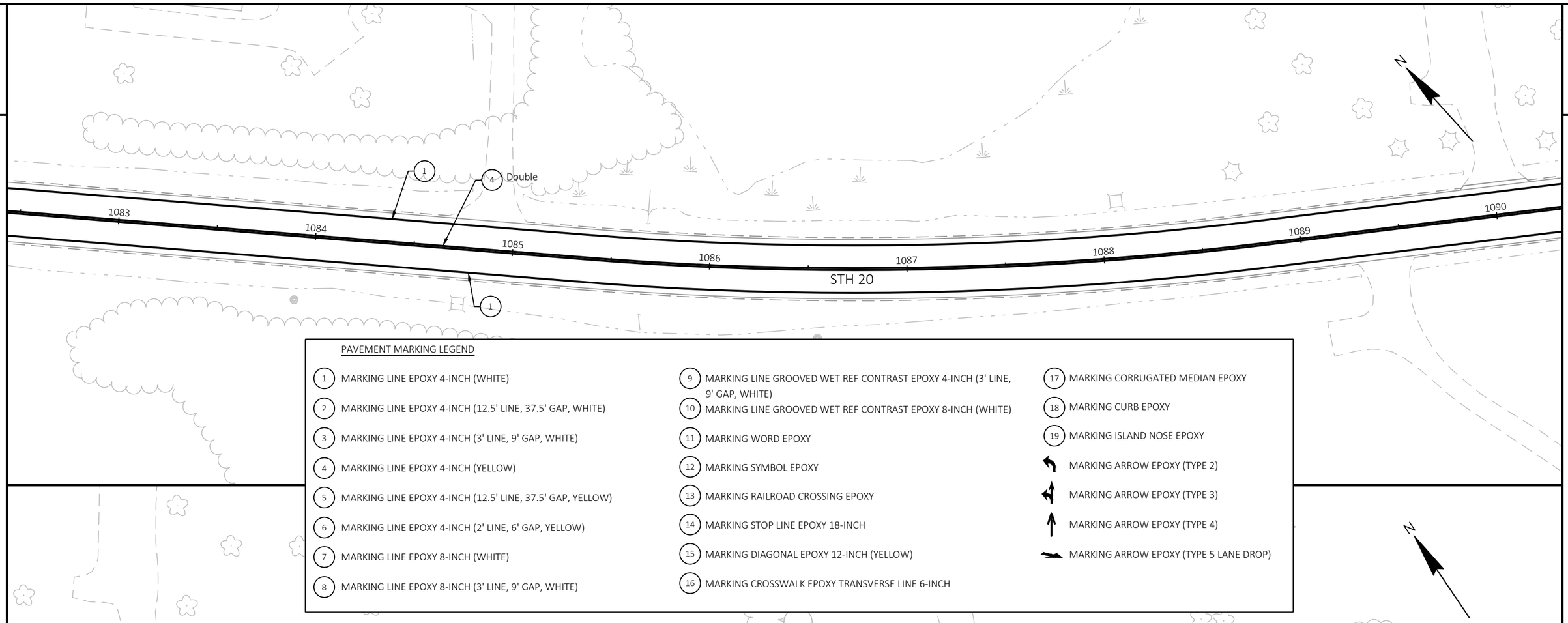
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024522_pm

PLOT DATE : 8/25/2021 8:47 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

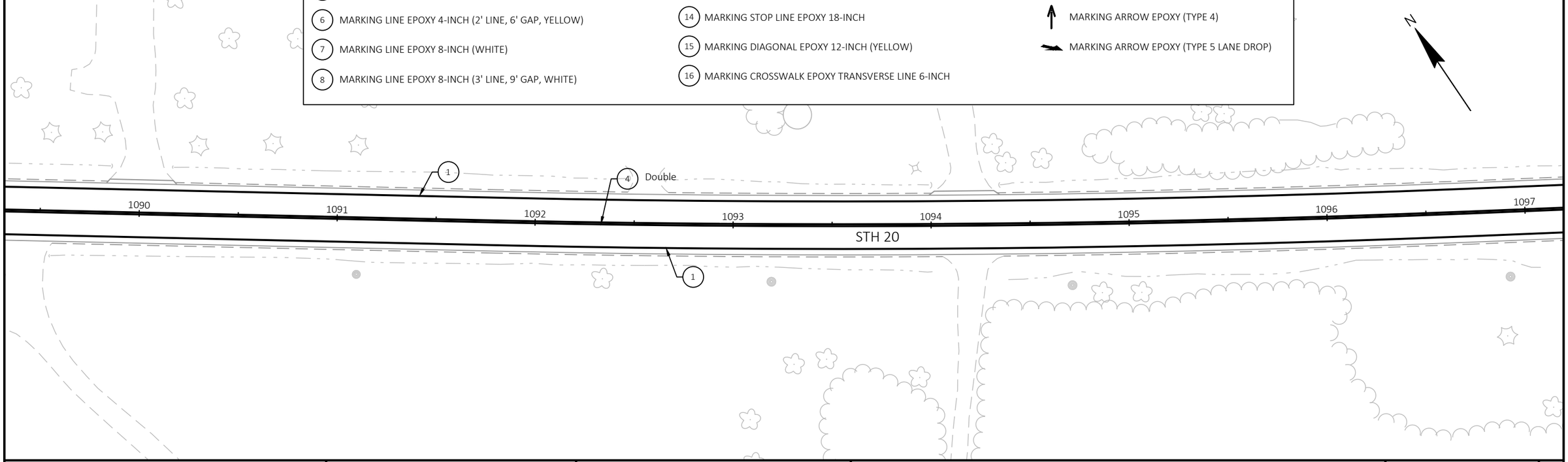
2

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY
- MARKING ARROW EPOXY (TYPE 2)
- MARKING ARROW EPOXY (TYPE 3)
- MARKING ARROW EPOXY (TYPE 4)
- MARKING ARROW EPOXY (TYPE 5 LANE DROP)



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_153

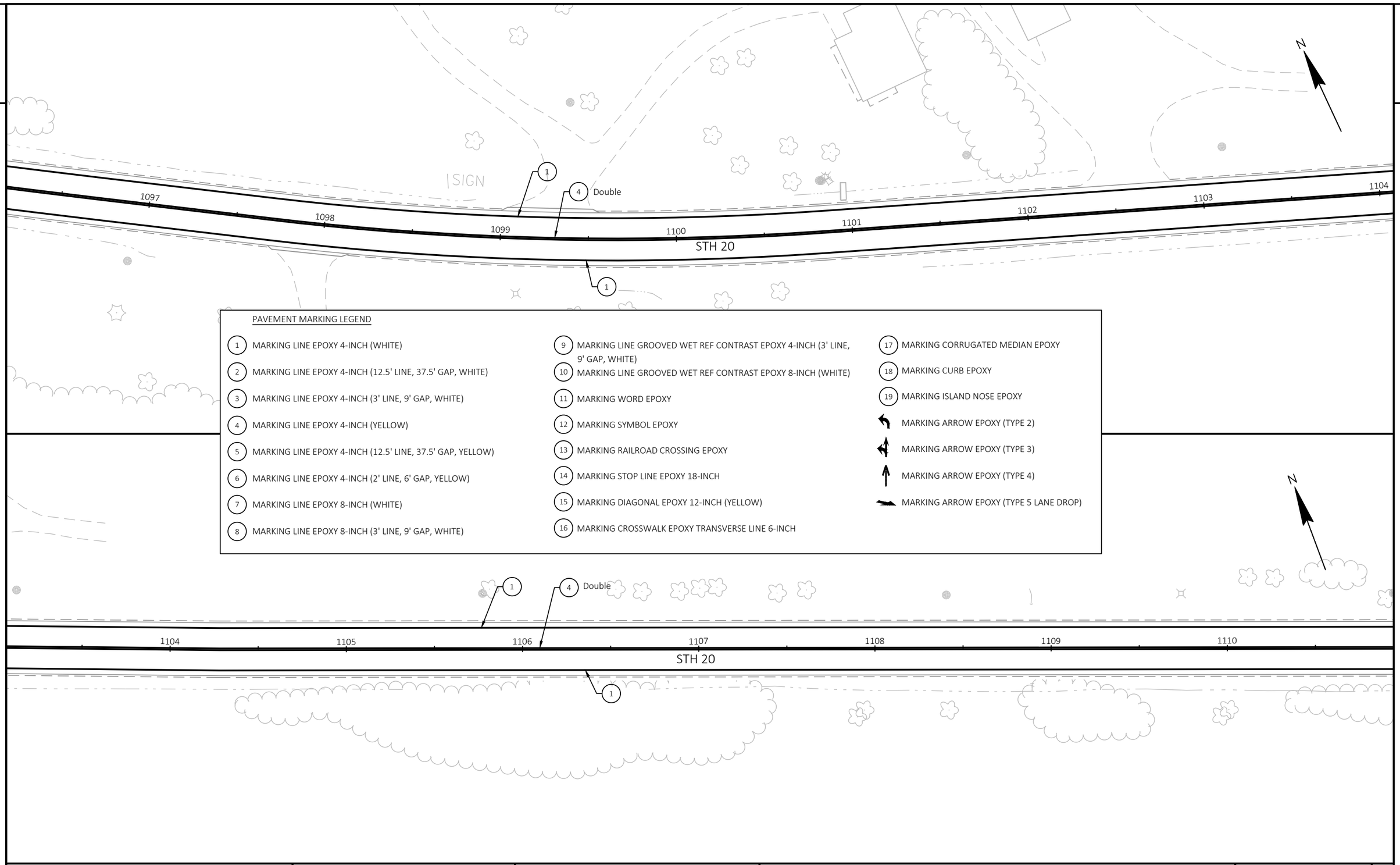
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024523_pm

PLOT DATE : 8/25/2021 8:48 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

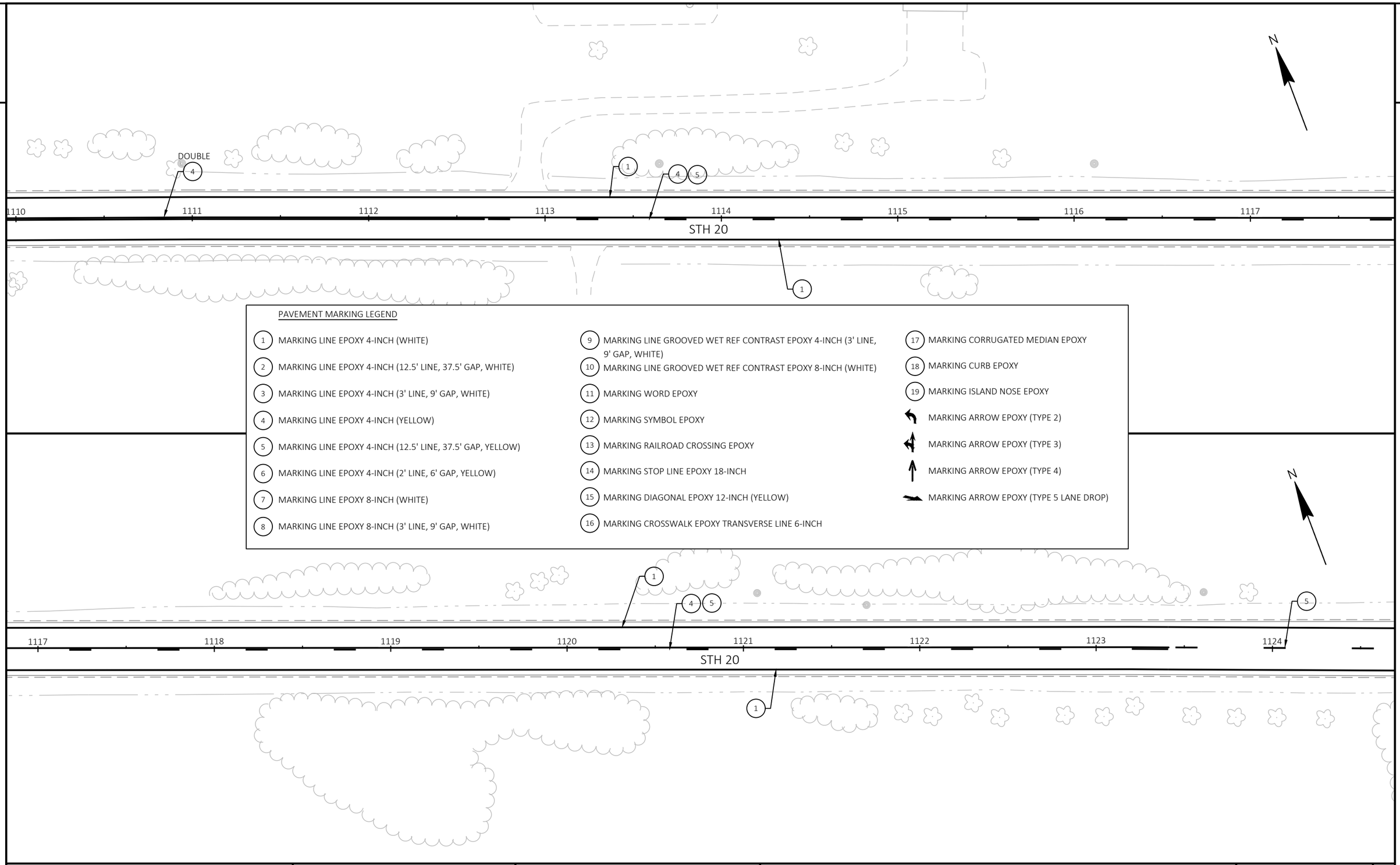
MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_154

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024524_pm
PLOT DATE : 8/25/2021 8:49 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY
- MARKING ARROW EPOXY (TYPE 2)
- MARKING ARROW EPOXY (TYPE 3)
- MARKING ARROW EPOXY (TYPE 4)
- MARKING ARROW EPOXY (TYPE 5 LANE DROP)

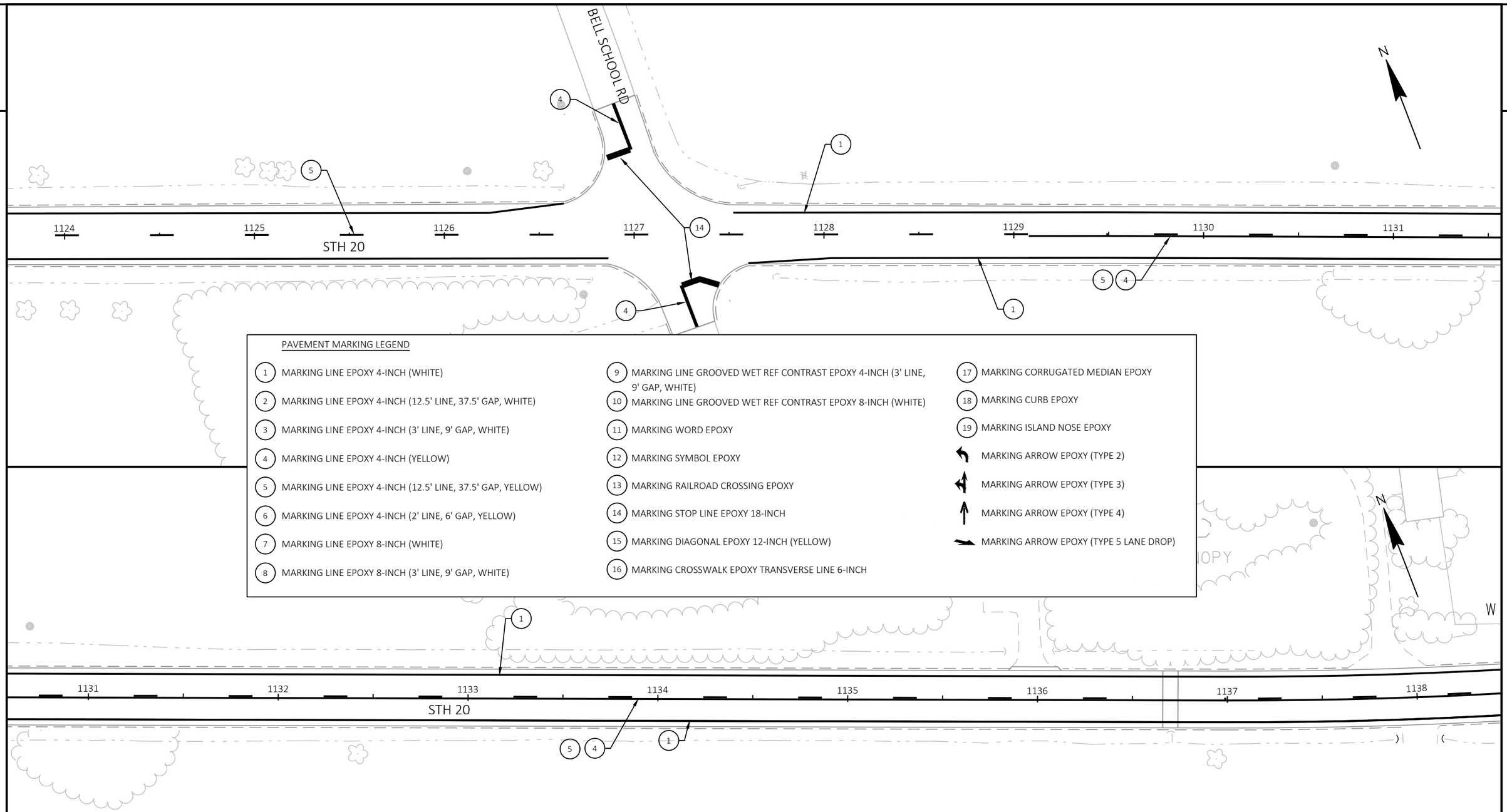
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_155

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024525_pm

PLOT DATE : 8/25/2021 8:50 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

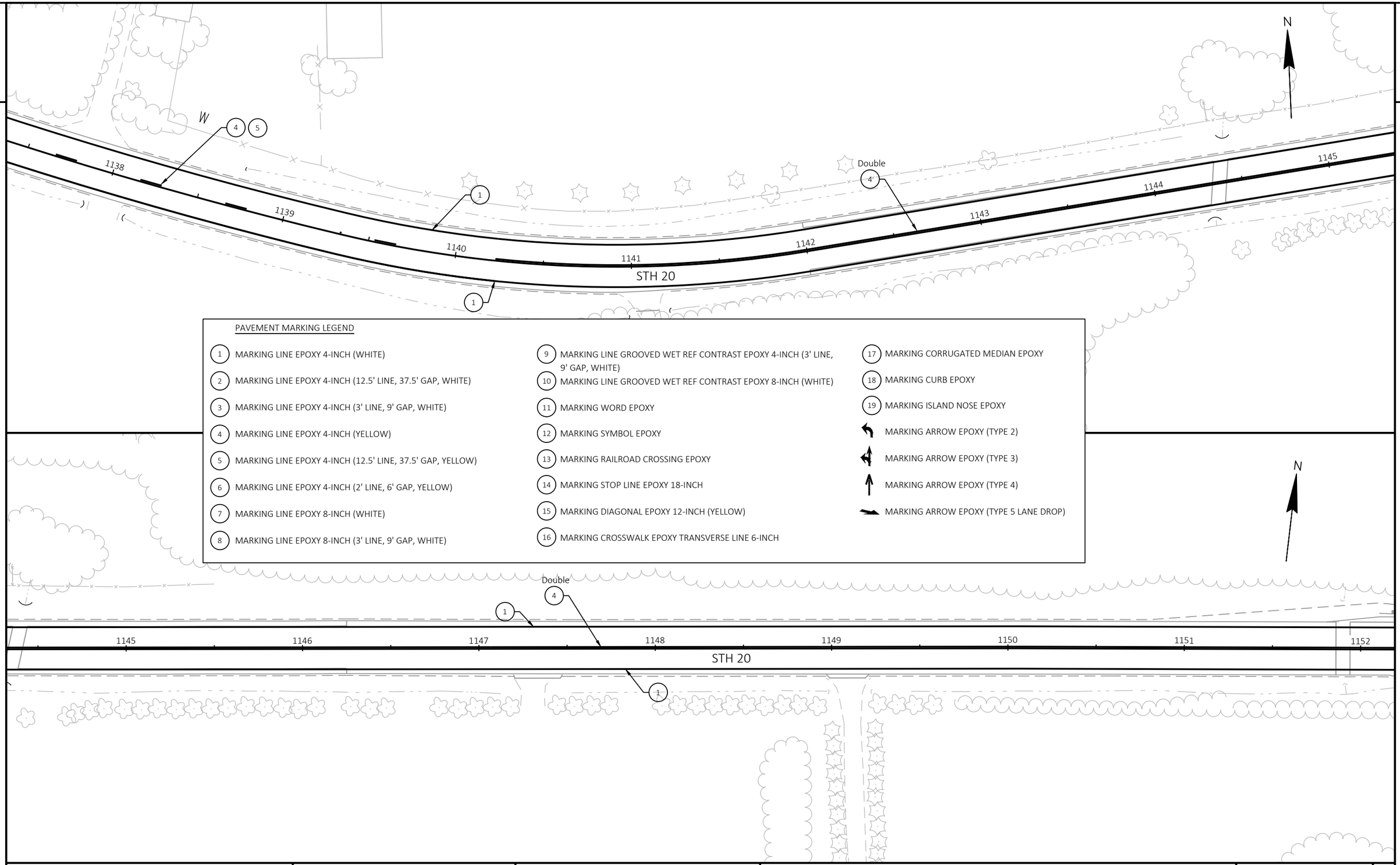
MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_156

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024526_pm

PLOT DATE : 8/25/2021 8:51 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT



PAVEMENT MARKING LEGEND

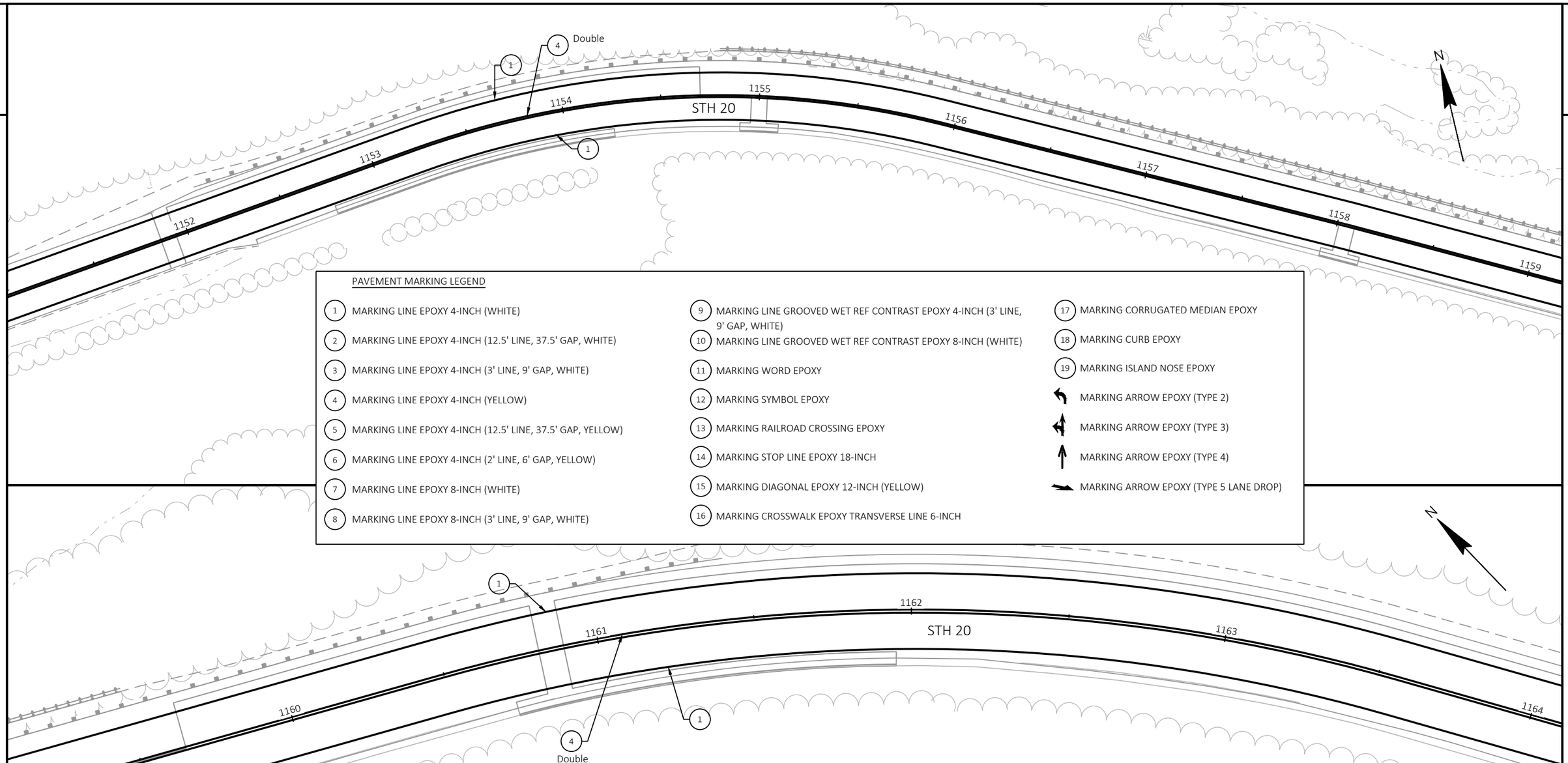
1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY
- MARKING ARROW EPOXY (TYPE 2)
- MARKING ARROW EPOXY (TYPE 3)
- MARKING ARROW EPOXY (TYPE 4)
- MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_157

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024527_pm

PLOT DATE : 8/25/2021 8:52 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024528_pm

PLOT DATE : 8/25/2021 8:53 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

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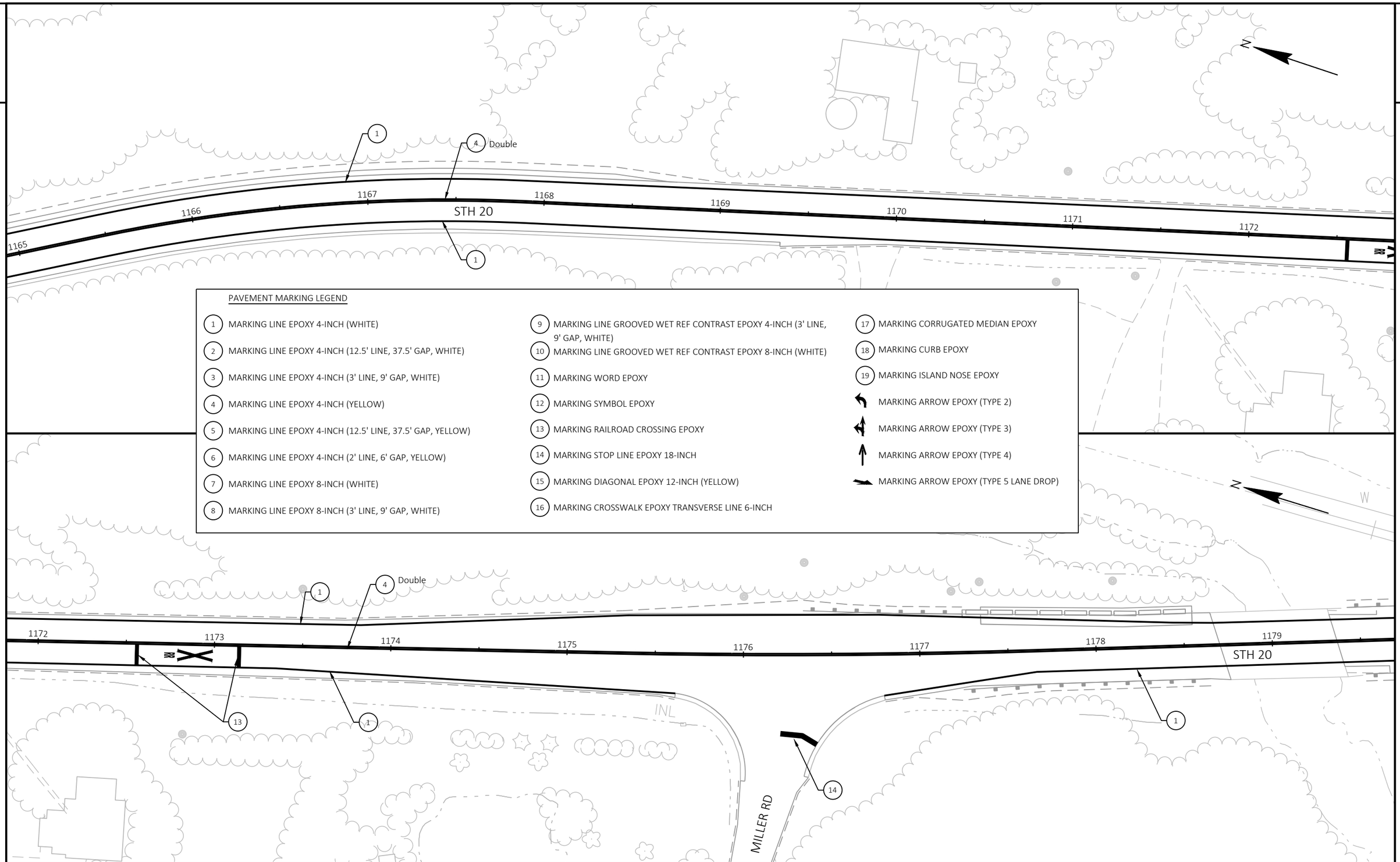


PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

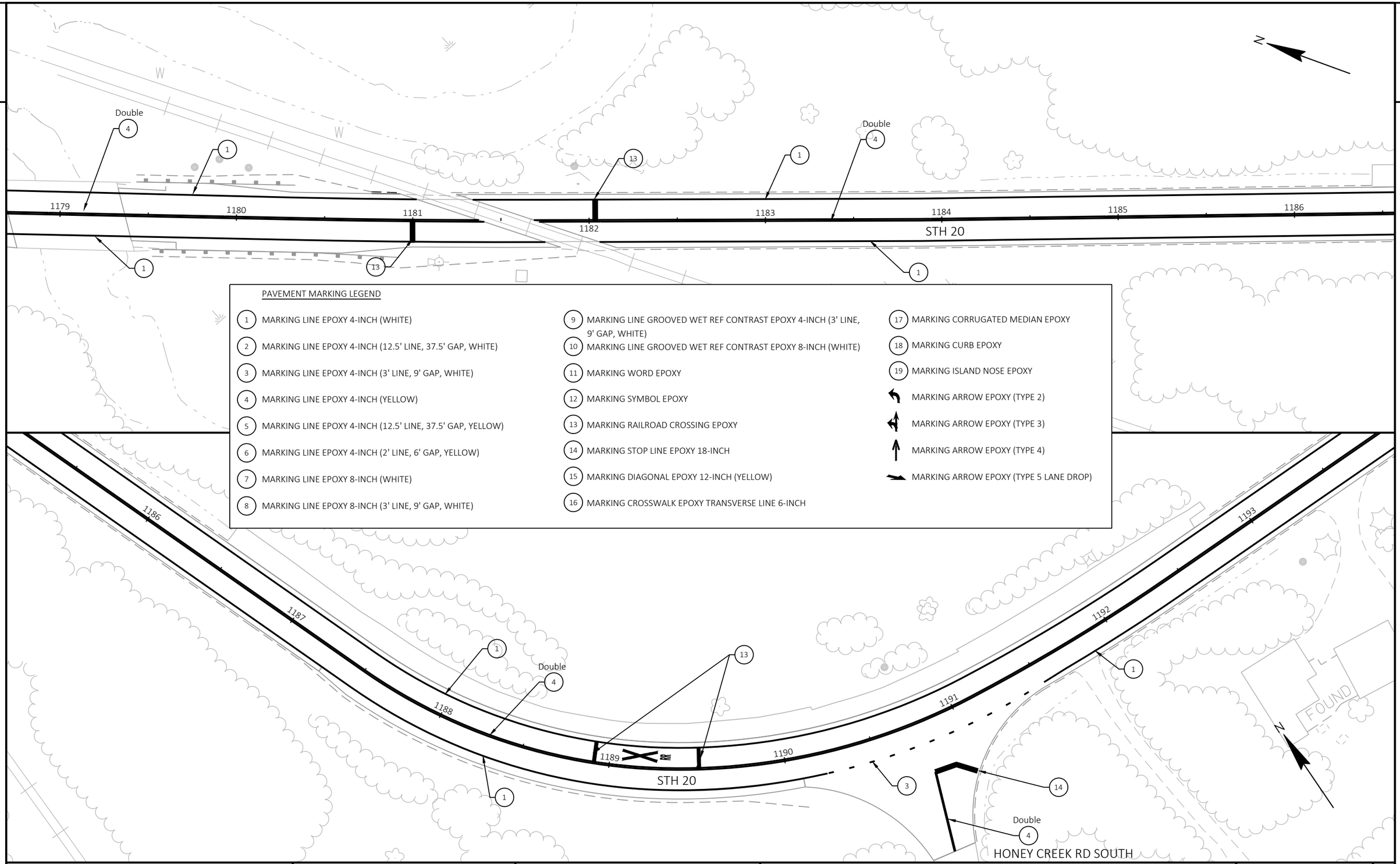
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024529_pm

PLOT DATE : 8/25/2021 8:54 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
3. MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE EPOXY 4-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)
6. MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
7. MARKING LINE EPOXY 8-INCH (WHITE)
8. MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
9. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
10. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
11. MARKING WORD EPOXY
12. MARKING SYMBOL EPOXY
13. MARKING RAILROAD CROSSING EPOXY
14. MARKING STOP LINE EPOXY 18-INCH
15. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
16. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
17. MARKING CORRUGATED MEDIAN EPOXY
18. MARKING CURB EPOXY
19. MARKING ISLAND NOSE EPOXY
- MARKING ARROW EPOXY (TYPE 2)
- MARKING ARROW EPOXY (TYPE 3)
- MARKING ARROW EPOXY (TYPE 4)
- MARKING ARROW EPOXY (TYPE 5 LANE DROP)

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

PRE_160

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024530_pm
PLOT DATE : 10/12/2021 1:03 PM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

2

HONEY CREEK RD NORTH

N

Double

4

14

1

Double

4

1

1193 1194 1195 1196 1197 1198 1199 1200

STH 20

1

PAVEMENT MARKING LEGEND

1 MARKING LINE EPOXY 4-INCH (WHITE)

2 MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)

3 MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)

4 MARKING LINE EPOXY 4-INCH (YELLOW)

5 MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, YELLOW)

6 MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)

7 MARKING LINE EPOXY 8-INCH (WHITE)

8 MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)

10 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)

11 MARKING WORD EPOXY

12 MARKING SYMBOL EPOXY

13 MARKING RAILROAD CROSSING EPOXY

14 MARKING STOP LINE EPOXY 18-INCH

15 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

16 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

17 MARKING CORRUGATED MEDIAN EPOXY

18 MARKING CURB EPOXY

19 MARKING ISLAND NOSE EPOXY

MARKING ARROW EPOXY (TYPE 2)

MARKING ARROW EPOXY (TYPE 3)

MARKING ARROW EPOXY (TYPE 4)

MARKING ARROW EPOXY (TYPE 5 LANE DROP)

FOUND

N

Double

1

4

1

1200 1201 1202 1203 1204 1205 1206 1207

STH 20

1

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PERMANENT PAVEMENT MARKING	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024531_pm

PLOT DATE : 8/25/2021 8:56 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

PRE_161

WISDOT/CADDS SHEET 44

2

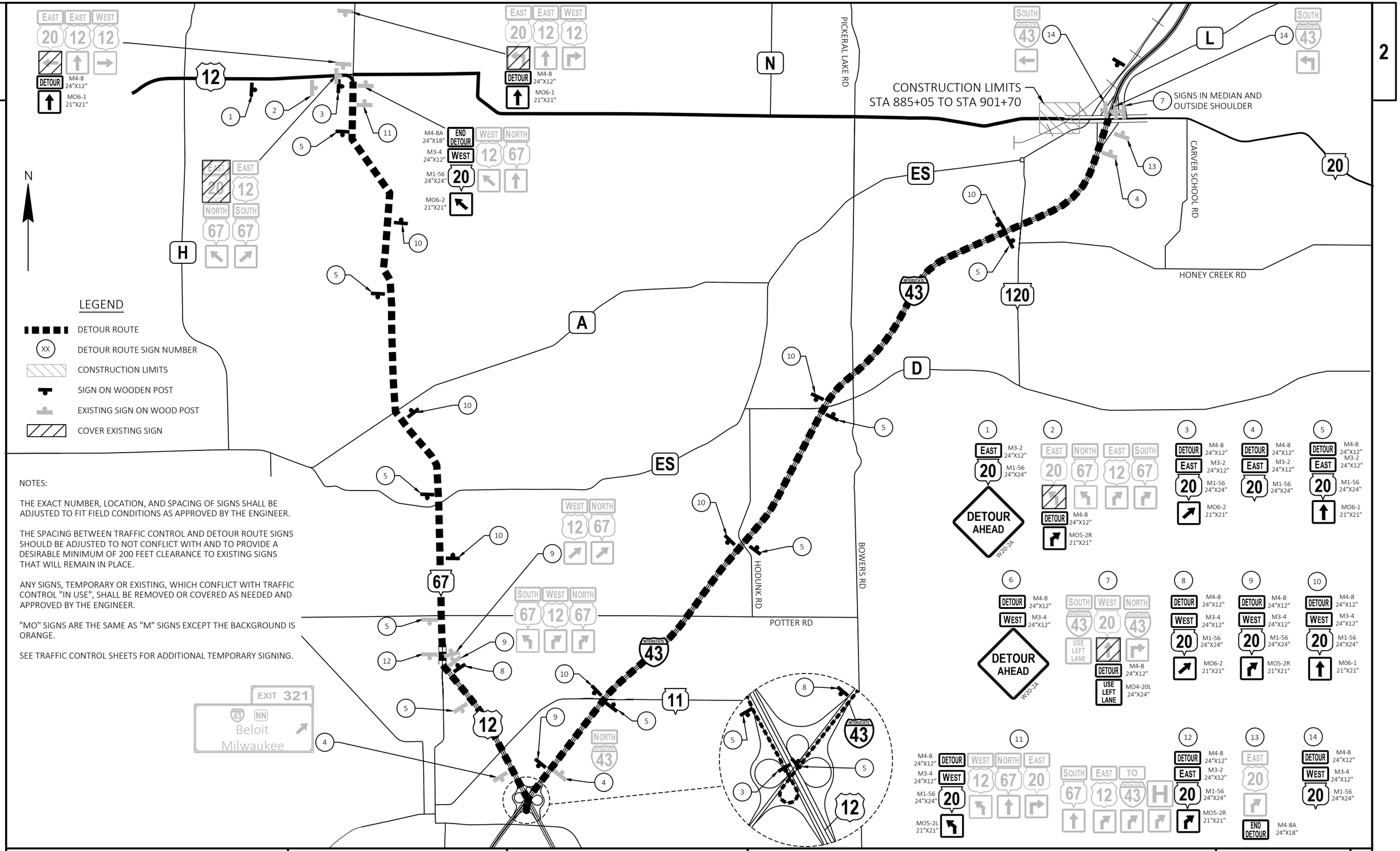
The project will be constructed in three stages.
Stage 1 will include pavement replacement from the west project limits (STA 884+75) to CTH ES (STA 913+00). The road will be closed and traffic detoured along STH 67 and I-43 although access will be maintained for local traffic.

Stage 2 will be split into Stage 2 A and Stage 2B. Stage 2 includes the pavement replacement from CTH ES (STA 913+00) to CTH L (STA 942+00). Stage 2 A will have all traffic on the westbound lanes while pavement replacing the eastbound lanes and the south half of the CTH ES intersection. Stage 2 B will carry traffic on the eastbound lanes while pavement replacing the westbound lanes and the north half of the CTH ES intersection. CTH ES and the I-43 ramps will be detoured during this stage.

Stage 3 will include the pavement replacement from CTH L (STA 942+00) to STA 956+30, the reconstruction of the retaining wall between STA 1154+75 and STA 1159+50, and the resurfacing from the east pavement replacement limit to the east project limits (STA 1203+10).

There will be a hard closure at the wall reconstruction, allowing crews room to work. Traffic will be detoured following STH 83 to I-43. Through traffic will not be allowed due to the pavement condition during resurfacing, although access will be maintained for local traffic. Any pavement that is milled must be paved that same day.

2



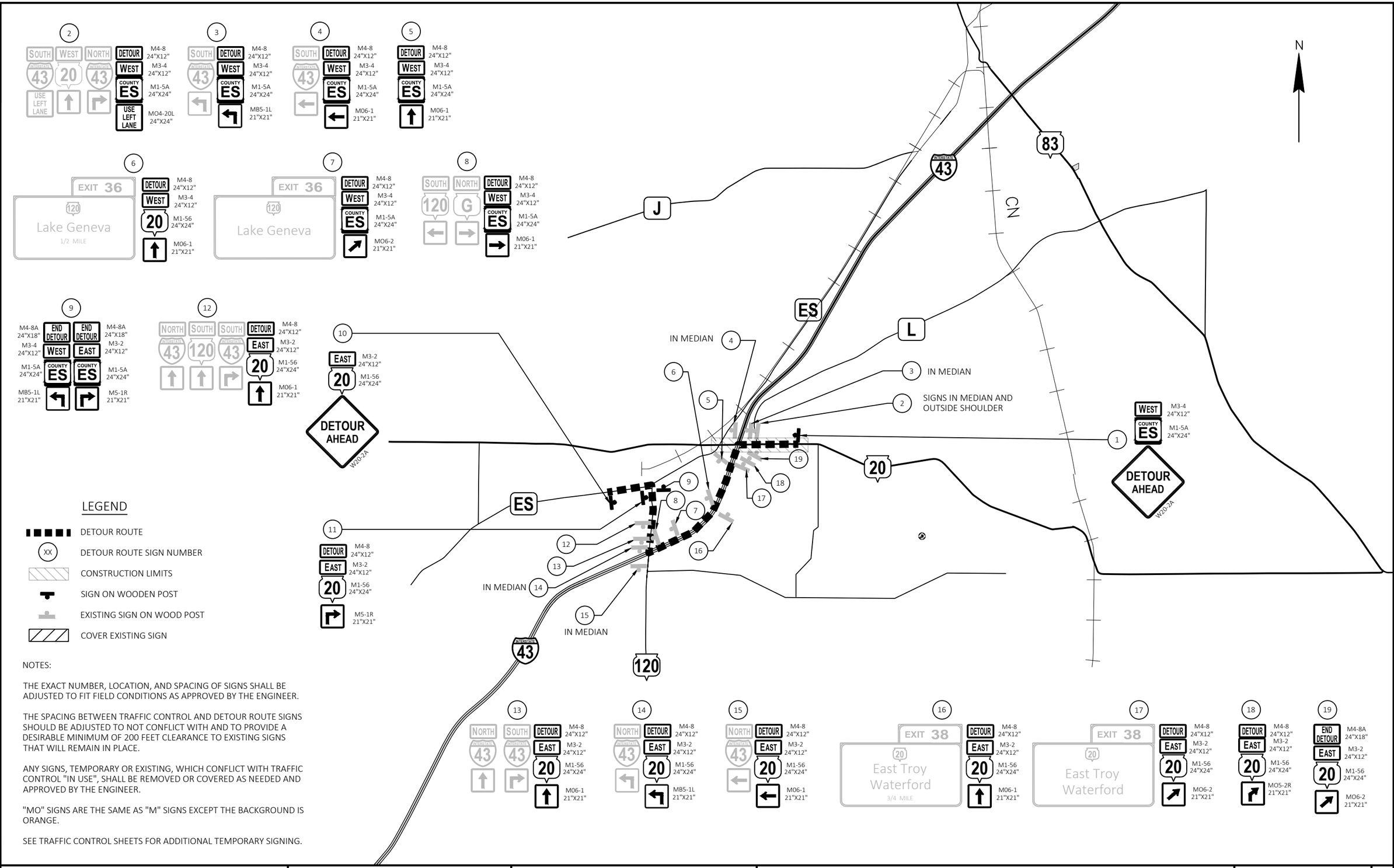
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH/RACINE	DETOUR PLAN - STH 20 CLOSURE - STAGE 1	SHEET E

PRE_163

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - 027001-DT

PLOT DATE : 10/27/2021 10:40 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 42



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH/RACINE	DETOUR PLAN - STH 20 CLOSURE - STAGE 2A	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027002_DT.DWG
LAYOUT NAME - 027002-DT
PLOT DATE : 10/27/2021 10:41 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : Custom

1
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
DETOUR AHEAD W20-2A

2
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"
SOUTH 83 ONLY
ES

3
SOUTH 83
WEST ES ONLY
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"

4
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"

5
JCT INTERSTATE 43
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"

6
NORTH INTERSTATE 43
SOUTH INTERSTATE 43
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M5-1R 21"X21"

7
SOUTH INTERSTATE 43
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"

8
EXIT 38
20
East Troy
1 MILE
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"

9
EXIT 38
20
East Troy
1 MILE
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M06-2 21"X21"

10
EAST 20
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"

11
WEST 20
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"

SIGNS IN MEDIAN AND OUTSIDE SHOULDER

12
DETOUR M4-8 24"X12"
WEST
COUNTY ES
BEGIN LEFT TURN LANE
EAST
COUNTY ES

SIGNS IN MEDIAN AND OUTSIDE SHOULDER

13
END DETOUR M4-8A 24"X18"
WEST
COUNTY ES
EAST
COUNTY ES

14
EAST
COUNTY ES M3-2 or MM3-2 or MP3-2 24"X12"
M1-5A 24"X24"
DETOUR AHEAD W20-2A

SIGNS IN MEDIAN AND OUTSIDE SHOULDER

15
DETOUR M4-8 24"X12"
EAST
COUNTY ES
WEST
COUNTY ES
M06-1 21"X21"

16
DETOUR M4-8 24"X12"
EAST
COUNTY ES
BEGIN LEFT TURN LANE
M06-1 21"X21"

17
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"
NORTH INTERSTATE 43
EAST 20
SOUTH INTERSTATE 43

18
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY ES M1-5A 24"X24"
MB5-1L 21"X21"
NORTH INTERSTATE 43
TO COUNTY ES

19
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"
NORTH INTERSTATE 43

20
EXIT 43
83
Mukwonago
1 MILE
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"

21
EXIT 43
83
Mukwonago
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY ES M1-5A 24"X24"
M06-2 21"X21"

22
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"
ALTERNATE NORTH INTERSTATE 43
SOUTH 83

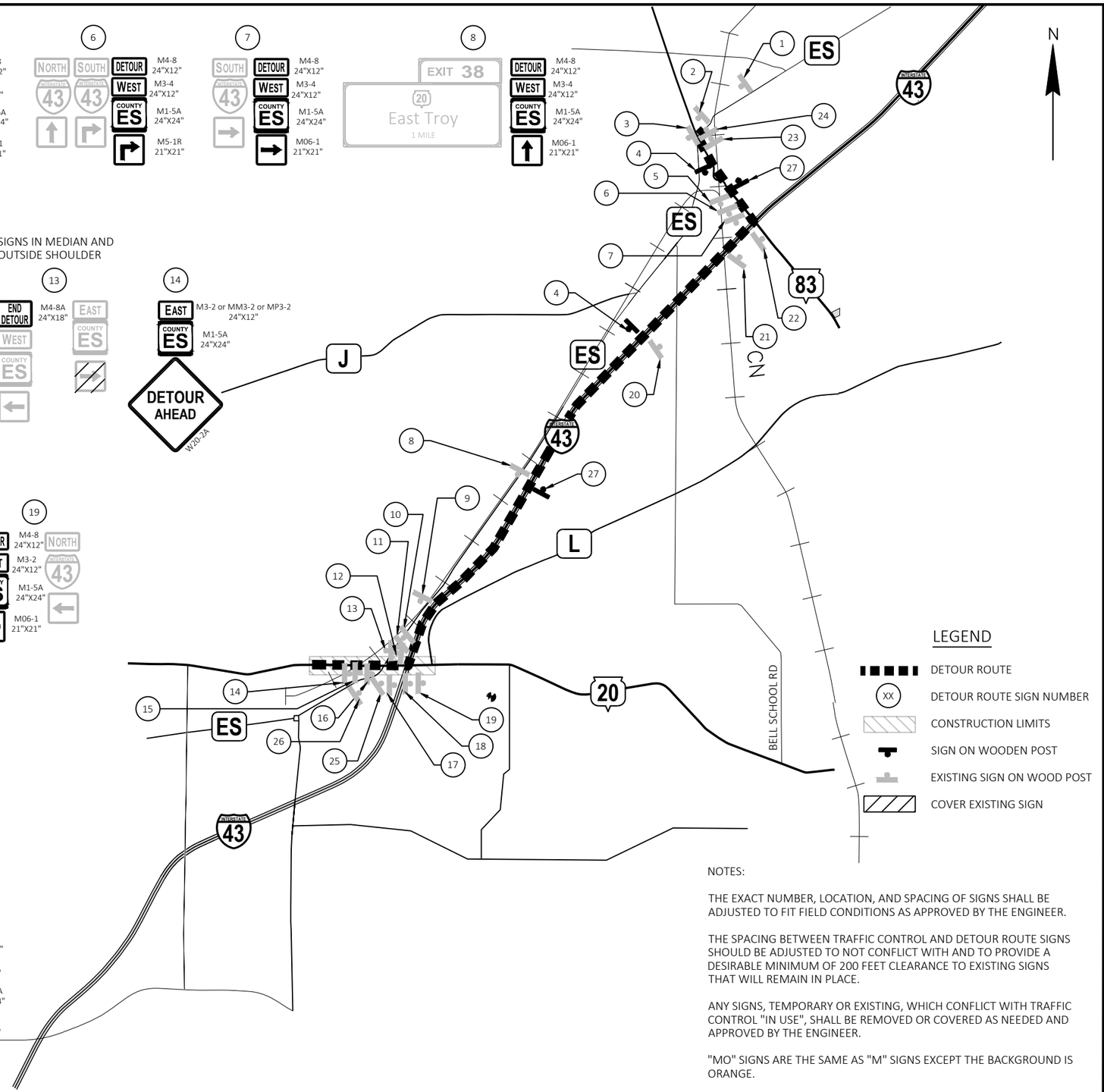
23
WEST
COUNTY ES
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"

24
NORTH 83
END DETOUR M4-8A 24"X18"
EAST ES

25
COUNTY 20
DETOUR M4-8 24"X12"
EAST M3-2 or MM3-2 or MP3-2 24"X12"
COUNTY ES M1-5A 24"X24"
MO5-2R 21"X21"

26
EAST
COUNTY ES M3-2 or MM3-2 or MP3-2 24"X12"
M1-5A 24"X24"
DETOUR AHEAD W20-2A

27
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY ES M1-5A 24"X24"
M06-1 21"X21"



LEGEND

- DETOUR ROUTE
- XX DETOUR ROUTE SIGN NUMBER
- CONSTRUCTION LIMITS
- SIGN ON WOODEN POST
- EXISTING SIGN ON WOOD POST
- COVER EXISTING SIGN

NOTES:

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

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE 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 APPROVED BY THE ENGINEER.

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

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH/RACINE	DETOUR PLAN - STH 20 CLOSURE - STAGE 2B	SHEET E

PRE_165

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027003_DT.DWG
LAYOUT NAME - 027003-DT

PLOT DATE : 10/27/2021 10:41 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 42

N

LEGEND

- DETOUR ROUTE
- (XX) DETOUR ROUTE SIGN NUMBER
- CONSTRUCTION LIMITS
- SIGN ON WOODEN POST
- EXISTING SIGN ON WOOD POST
- COVER EXISTING SIGN

EXIT 43 — 83 — Mukwonago

EXIT 38 — 20 — East Troy — Waterford

IN MEDIAN

WOLF RUN

GREELY DR

LOLAND DR

HONEY CREEK RD

HILL VALLEY DR

BELL SCHOOL RD

N MAPLE RD

TOWNLINE RD

ES

L

O

W

D

G

INTERSTATE 43

20

83

120

1 DETOUR AHEAD W20-2A — M3-4 24"X12" / M1-56 24"X24"

2 DETOUR / WEST 20 / NORTH 83 — M4-8 24"X12" / MO5-2R 21"X21"

3 DETOUR / WEST 20 — M4-8 24"X12" / M3-4 24"X12" / M1-56 24"X24" / MO6-1 21"X21"

4 SOUTH INTERSTATE 43 / DETOUR / WEST 20 — M4-8 24"X12" / M3-4 24"X12" / M1-56 24"X24" / MO6-1 21"X21"

5 NORTH TO INTERSTATE 43 / COUNTY L / DETOUR / EAST 20 — M4-8 24"X12" / MB3-2 24"X12" / M1-56 24"X24" / MO5-1L 21"X21"

6 DETOUR / EAST 20 — M4-8 24"X12" / MB3-2 24"X12" / M1-56 24"X24" / MO6-1 21"X21"

7 DETOUR / EAST 20 — M4-8 24"X12" / MB3-2 24"X12" / M1-56 24"X24"

8 DETOUR / EAST 20 — M4-8 24"X12" / MB3-2 24"X12" / M1-56 24"X24" / MO5-1R 21"X21"

9 SOUTH 83 / DETOUR / EAST 20 — M4-8 24"X12" / MB3-2 24"X12" / M1-56 24"X24" / MO6-1 21"X21"

10 DETOUR / WEST 20 — M4-8 24"X12" / M3-4 24"X12" / M1-56 24"X24"

11 END DETOUR / WEST 20 — M4-8A 24"X18"

12 SOUTH INTERSTATE 43 / DETOUR / WEST 20 — M4-8 24"X12" / M3-4 24"X12" / M1-56 24"X24" / MO6-1 21"X21"

13 EAST 20 — MB3-2 24"X12" / M1-56 24"X24"

14 END DETOUR / EAST 20 — M4-8A 24"X18"

15 SOUTH INTERSTATE 43 / NORTH INTERSTATE 43 / DETOUR / WEST 20 — M4-8 24"X12" / M3-4 24"X12" / M1-56 24"X24" / MO6-1 21"X21"

DETOUR / WEST 20 — M4-8 24"X12" / MO6-2 21"X21"

DETOUR AHEAD W20-2A

NOTES:

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

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE 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 APPROVED BY THE ENGINEER.

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

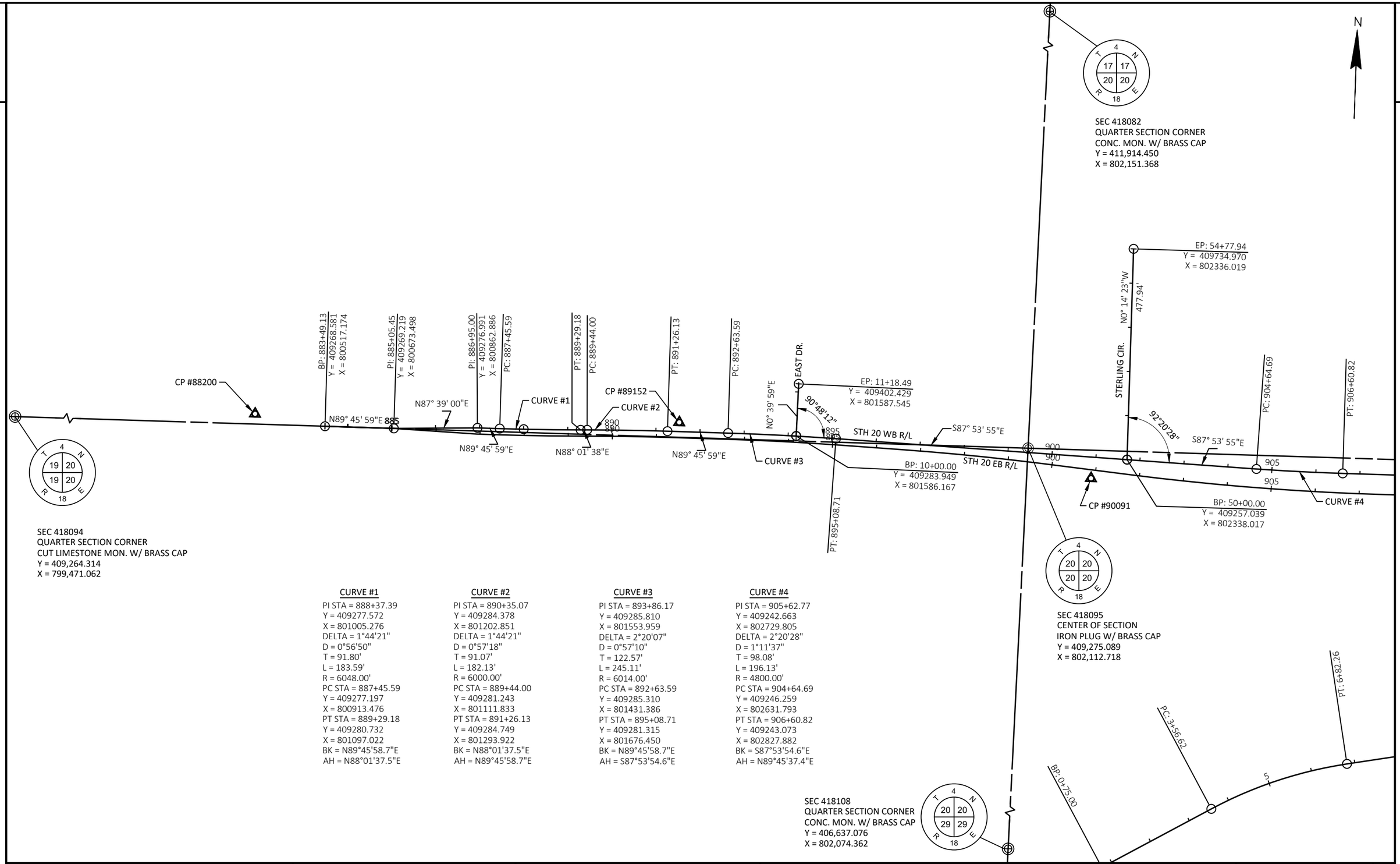
SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH/RACINE	DETOUR PLAN - STH 20 CLOSURE- STAGE 3	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027004_DT.DWG
LAYOUT NAME - 027004-DT

PLOT DATE : 10/27/2021 10:41 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : Custom

2



CURVE #1
PI STA = 888+37.39
Y = 409277.572
X = 801005.276
DELTA = 1°44'21"
D = 0°56'50"
T = 91.80'
L = 183.59'
R = 6048.00'
PC STA = 887+45.59
Y = 409277.197
X = 800913.476
PT STA = 889+29.18
Y = 409280.732
X = 801097.022
BK = N89°45'58.7"E
AH = N88°01'37.5"E

CURVE #2
PI STA = 890+35.07
Y = 409284.378
X = 801202.851
DELTA = 1°44'21"
D = 0°57'18"
T = 91.07'
L = 182.13'
R = 6000.00'
PC STA = 889+44.00
Y = 409281.243
X = 801111.833
PT STA = 891+26.13
Y = 409284.749
X = 801293.922
BK = N88°01'37.5"E
AH = N89°45'58.7"E

CURVE #3
PI STA = 893+86.17
Y = 409285.810
X = 801553.959
DELTA = 2°20'07"
D = 0°57'10"
T = 122.57'
L = 245.11'
R = 6014.00'
PC STA = 892+63.59
Y = 409285.310
X = 801431.386
PT STA = 895+08.71
Y = 409281.315
X = 801676.450
BK = N89°45'58.7"E
AH = S87°53'54.6"E

CURVE #4
PI STA = 905+62.77
Y = 409242.663
X = 802729.805
DELTA = 2°20'28"
D = 1°11'37"
T = 98.08'
L = 196.13'
R = 4800.00'
PC STA = 904+64.69
Y = 409246.259
X = 802631.793
PT STA = 906+60.82
Y = 409243.073
X = 802827.882
BK = S87°53'54.6"E
AH = N89°45'37.4"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

PRE_167

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027201-AD
PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

CURVE #5
PI STA = 758+57.92
Y = 409683.740
X = 804684.592
DELTA = 34°36'10"
D = 6°00'00"
T = 297.45'
L = 576.71'
R = 954.92'
PC STA = 755+60.47
Y = 409387.732
X = 804655.325
PT STA = 761+37.18
Y = 409910.766
X = 804876.780
BK = N05°38'47.7"E
AH = N40°14'57.9"E

CURVE #6
PI STA = 754+61.08
Y = 409008.713
X = 805418.712
DELTA = 7°19'12"
D = 6°00'00"
T = 61.08'
L = 122.00'
R = 954.93'
PC STA = 754+00.00
Y = 408949.121
X = 805405.295
PT STA = 755+22.00
Y = 409069.528
X = 805424.427
BK = N12°41'17.5"E
AH = N05°22'05.4"E

SEC 418083
CENTER OF SECTION
CONC. MON. W / BRASS CAP
Y = 411,930.269
X = 804,794.934

N

PT: 33+18.23

CTH E5

PC: 26+80.27

CURVE #5

EP: 761+37.18
Y = 409910.766
X = 804876.780

IH-43 SB OFF RAMP

EP: 761+21.61
Y = 409580.177
X = 805471.979

IH-43 NB ON RAMP

PI: 937+00.01
Y = 409286.227
X = 805866.671

SEC 4096
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 409,286.148
X = 804,757.304

CAST IRON MONUMENT SET IN CONCRETE ROAD SURFACE AT THE SOUTH 1/16 CORNER OF THE NORTHEAST 1/4 OF SECTION 20, T4N R18E

PI: 913+65.29
Y = 409246.019
X = 803532.342

PI: 915+46.57
Y = 409253.103
X = 803713.486

N87° 45' 37"E

PC: 755+60.47

BP: 754+57.92
Y = 409285.679
X = 804645.232

N5° 38' 55"E

BP: 758+26.64
Y = 409286.461
X = 805444.811

EP: 757+39.89
Y = 409286.461
X = 805444.811

N5° 17' 05"E

910 N89° 45' 37"E 915 N89° 07' 07"E 920 STH 20 WB R/L N89° 07' 07"E 925 930 935

910 915 920 925 930 935

STH 20 EB R/L

59°21'28"

59°21'28"

EP: 755+49.58
Y = 409285.679
X = 804645.235

96°31'40"

N5° 38' 47"E

N5° 22' 05"E

96°14'58"

CP #90950

CP #91817

CP #92655

CP#93518

PT: 17+91.83

PT: 755+22.00

BP: 752+00.00
Y = 408937.795
X = 804610.840

BP: 754+00.00
Y = 408949.121
X = 805405.295

CURVE #6

IH-43 SB ON RAMP

IH-43 NB OFF RAMP

PC: 9+64.18

CTH ES

CURVE #6

SEC 418109
SECTION CORNER
IRON PLUG W/ BRASS CAP
Y = 406,640.660
X = 804,720.246

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

PRE_168

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027202-AD

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

N

PI: 937+00.01
Y = 409286.227
X = 805866.671

EP: 23+03.08
Y = 409585.801
X = 806147.765

303.08'

N9° 01' 14"W

80°51'39"

CTH L

BP: 20+00.00
Y = 409286.468
X = 806195.285

940

N89° 57' 29"E

945

950

955

STH 20 WB R/L

960

N89° 58' 23"E

965

940

945

STH 20 EB R/L

PI: 952+28.58
Y = 409287.349
X = 807395.239

CP #94452

CP #95276

CP #96187

SEC 4180844
WITNESS CORNER
CONC. MON. W/ BRASS CAP
Y = 411,928.482
X = 806,923.771

SEC 4180842
WITNESS CORNER
CONC. MON. W/ BRASS CAP
Y = 411,927.843
X = 807,844.401

SEC 4180843
WITNESS CORNER
CONC. MON. W/ BRASS CAP
Y = 411,643.849
X = 807,425.250

SEC 4097
CENTER OF SECTION
CAST IRON MON. W / CAST IRON CAP
Y = 409,287.349
X = 807,395.239

SEC 418110
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 406,645.725
X = 807,361.655

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

PRE_169

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027203-AD

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

SEC 418085
SECTION CORNER
CONC. MON. W / BRASS CAP
Y = 411,926.747
X = 810,062.622

T 4 N
16 15
21 22
R 18 E

N

EP: 8+00.00
Y = 410088.070
X = 809056.527

GREENWALD CT.

5

N0° 40' 13"E
800.00'

89°18'10"

970

CP #97976

N89° 58' 23"E

BP: 0+00.00
Y = 409288.124
X = 809047.168

975

S89° 47' 33"E

CP #97825

EP: 60+00.00

PC: 977+30.65

PI: 975+25.05
Y = 409288.427
X = 809691.713

SEC 4098
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 409,288.587
X = 810,032.538

T 4 N
21 22
21 22
R 18 E

CURVE #7

PI STA = 978+78.26
Y = 409287.148
X = 810044.915
DELTA = 23°17'12"
D = 7°59'55"
T = 147.60'
L = 291.13'
R = 716.31'
PC STA = 977+30.65
Y = 409287.683
X = 809897.312
PT STA = 980+21.78
Y = 409228.306
X = 810180.282
BK = S89°47'33.5"E
AH = S66°30'21.1"E

CURVE #8

PI STA = 990+07.71
Y = 408831.041
X = 811082.618
DELTA = 1°12'15"
D = 1°45'32"
T = 34.23'
L = 68.46'
R = 3257.43'
PC STA = 989+73.48
Y = 408844.959
X = 811051.346
PT STA = 990+41.93
Y = 408816.468
X = 811113.590
BK = S66°00'21.7"E
AH = S64°48'07.0"E

SEC 418099
CENTER OF SECTION
CONC. MON. W/ BRASS CAP
Y = 409,253.179
X = 812,685.835

T 4 N
22 22
22 22
R 18 E

79°33'57"

980

PT: 980+21.78

STH 20 WB R/L

S66° 30' 21"E

PI: 984+79.10
Y = 409045.994
X = 810599.688

985

S66° 00' 22"E

CP #98771

PC: 989+73.48

PT: 990+41.93

990

CURVE #8

995

S64° 48' 07"E

CP #99726

55

CARVER SCHOOL RD.

N0° 38' 44"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

PRE_170

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027204-AD

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

SEC 418110
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 406,645.725
X = 807,361.655

BP: 33+75.96

35 40 45 50 55

CARVER SCHOOL R/L
N0° 38' 44"E

SEC 418111
SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 406,650.465
X = 810002.817

SEC 4180112
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 406,617.327
X = 812,650.660

BP: 0+00.00
Y = 409288.124
X = 809047.168

89°18'10"

970

CP# 97976

N89° 58' 23"E

975

PI: 975+25.05
Y = 409288.427
X = 809691.713

EP: 60+00.00

S89° 47' 33"E

PC: 977+30.65

CP# 97825

PT: 980+21.78

79°33'57"

980

SEC 4098
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 409,288.587
X = 810,032.538

S66° 30' 21"E

985

PI: 984+79.10
Y = 409045.994
X = 810599.688

S66° 00' 22"E

N

2

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT	SHEET E

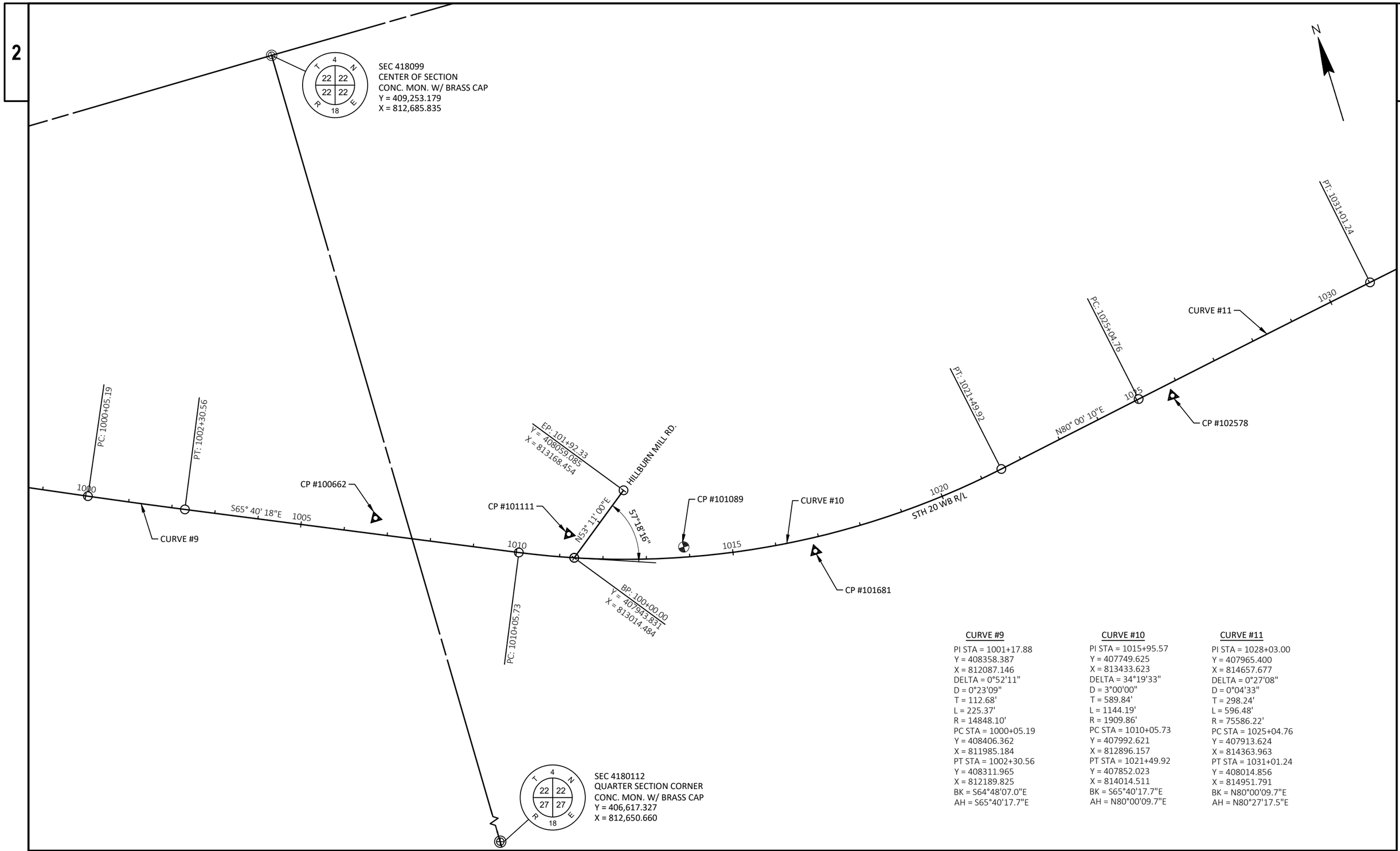
PRE_171

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027205_ad

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2



CURVE #9

PI STA = 1001+17.88
Y = 408358.387
X = 812087.146
DELTA = 0°52'11"
D = 0°23'09"
T = 112.68'
L = 225.37'
R = 14848.10'
PC STA = 1000+05.19
Y = 408406.362
X = 811985.184
PT STA = 1002+30.56
Y = 408311.965
X = 812189.825
BK = S64°48'07.0"E
AH = S65°40'17.7"E

CURVE #10

PI STA = 1015+95.57
Y = 407749.625
X = 813433.623
DELTA = 34°19'33"
D = 3°00'00"
T = 589.84'
L = 1144.19'
R = 1909.86'
PC STA = 1010+05.73
Y = 407992.621
X = 812896.157
PT STA = 1021+49.92
Y = 407852.023
X = 814014.511
BK = S65°40'17.7"E
AH = N80°00'09.7"E

CURVE #11

PI STA = 1028+03.00
Y = 407965.400
X = 814657.677
DELTA = 0°27'08"
D = 0°04'33"
T = 298.24'
L = 596.48'
R = 75586.22'
PC STA = 1025+04.76
Y = 407913.624
X = 814363.963
PT STA = 1031+01.24
Y = 408014.856
X = 814951.791
BK = N80°00'09.7"E
AH = N80°27'17.5"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

PRE_172

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027206-AD

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

SEC 418100
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 409,206.035
X = 815,330.466

SEC 418101
CENTER OF SECTION
CONC. MON. W / BRASS CAP
Y = 409,188.200
X = 817,994.279

PT: 1031+01.24

1035

N80° 27' 17"E

CP #103391

PC: 1039+06.43

PT: 1040+55.56

1040

CURVE #12

STH 20 WB R/L

1045

N80° 12' 54"E

CP #104118

1050

EP: 301+30.89
Y = 408540.818
X = 816942.996

WEBER RD.

N1° 27' 15"W

300

81°40'9"

BP: 299+45.35
Y = 408355.337
X = 816947.705

CP #105143

CURVE #13

CP #51000

1055

BM #51001

PC: 1051+56.09

1060

PT: 1060+00.49

S42° 47' 17"E

CP #106202

S42°

SEC 418113
SECTION CORNER
CONC. MON. W / BRASS CAP
Y = 406,538.703
X = 815,297.709

CURVE #12

PI STA = 1039+80.99
Y = 408160.740
X = 815819.363
DELTA = 0°14'23"
D = 0°09'39"
T = 74.57'
L = 149.13'
R = 35631.12'
PC STA = 1039+06.43
Y = 408148.375
X = 815745.829
PT STA = 1040+55.56
Y = 408173.413
X = 815892.846
BK = N80°27'17.5"E
AH = N80°12'54.1"E

CURVE #13

PI STA = 1056+16.94
Y = 408438.771
X = 817431.511
DELTA = 56°59'49"
D = 6°45'00"
T = 460.84'
L = 844.40'
R = 848.83'
PC STA = 1051+56.09
Y = 408360.450
X = 816977.371
PT STA = 1060+00.49
Y = 408100.571
X = 817744.559
BK = N80°12'54.1"E
AH = S42°47'17.4"E

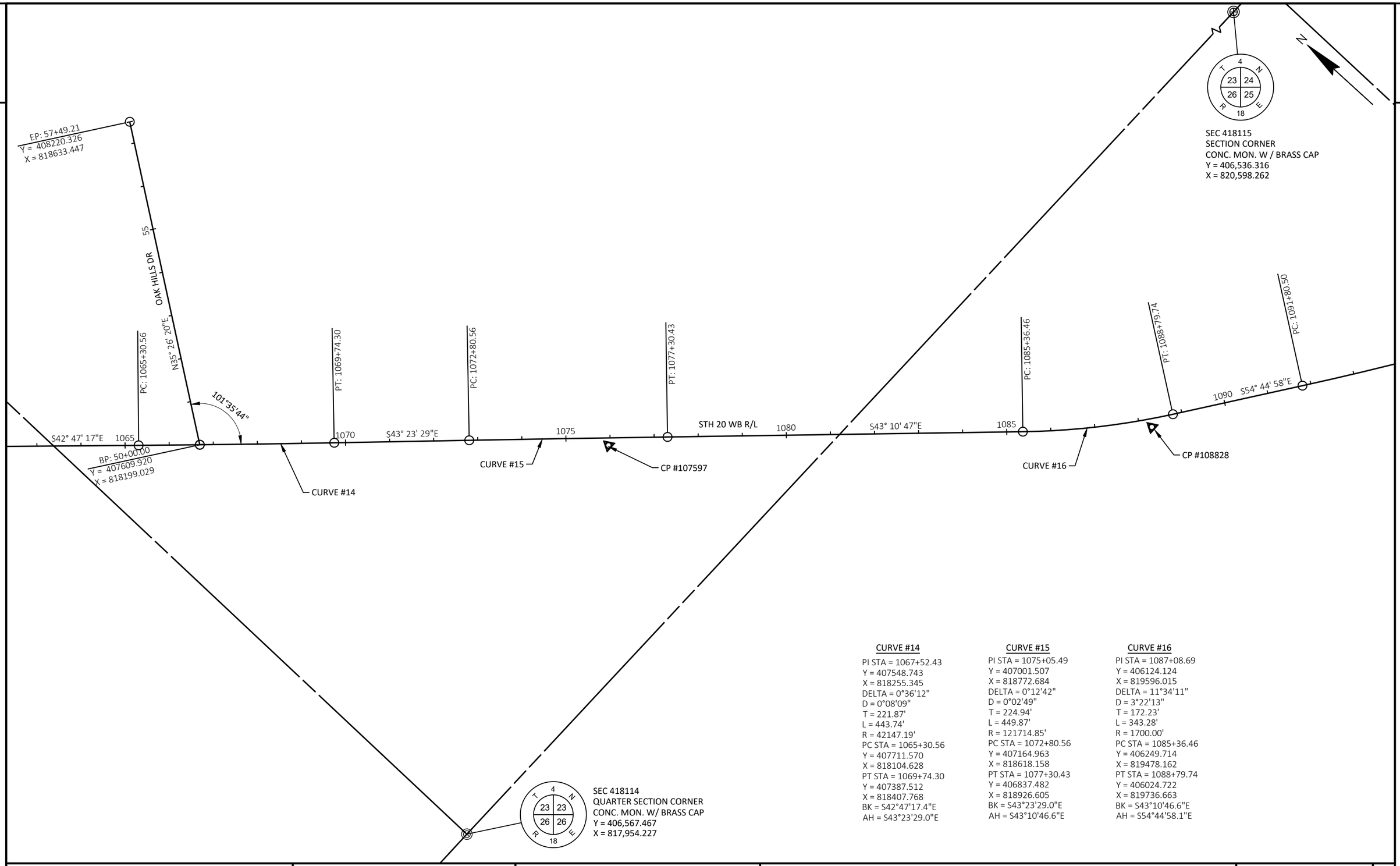
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET PRE_173 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027207-AD

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2



CURVE #14

PI STA = 1067+52.43
Y = 407548.743
X = 818255.345
DELTA = 0°36'12"
D = 0°08'09"
T = 221.87'
L = 443.74'
R = 42147.19'
PC STA = 1065+30.56
Y = 407711.570
X = 818104.628
PT STA = 1069+74.30
Y = 407387.512
X = 818407.768
BK = S42°47'17.4"E
AH = S43°23'29.0"E

CURVE #15

PI STA = 1075+05.49
Y = 407001.507
X = 818772.684
DELTA = 0°12'42"
D = 0°02'49"
T = 224.94'
L = 449.87'
R = 121714.85'
PC STA = 1072+80.56
Y = 407164.963
X = 818618.158
PT STA = 1077+30.43
Y = 406837.482
X = 818926.605
BK = S43°23'29.0"E
AH = S43°10'46.6"E

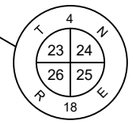
CURVE #16

PI STA = 1087+08.69
Y = 406124.124
X = 819596.015
DELTA = 11°34'11"
D = 3°22'13"
T = 172.23'
L = 343.28'
R = 1700.00'
PC STA = 1085+36.46
Y = 406249.714
X = 819478.162
PT STA = 1088+79.74
Y = 406024.722
X = 819736.663
BK = S43°10'46.6"E
AH = S54°44'58.1"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027208-AD
PLOT DATE : 8/31/2021 10:35 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2



SEC 418115
SECTION CORNER
CONC. MON. W / BRASS CAP
Y = 406,536.316
X = 820,598.262

N

PC: 1091+80.50

PT: 1096+71.43

PC: 1097+69.39

PT: 1100+82.14

PI: 1104+28.02
Y = 405267.262
X = 821078.240

PI: 1110+99.82
Y = 405034.306
X = 821708.352

PI: 1123+20.25
Y = 404604.876
X = 822850.731

1095

S58° 20' 40"E

CURVE #17

1100

S69° 04' 15"E

1105

S69° 42' 37"E

1110

STH 20 WB R/L

1115

S69° 23' 54"E

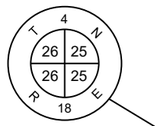
1120

CURVE #18

CP #110163

CP #111335

SEC 418128
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 403,895.040
X = 820,569.006



CURVE #17

PI STA = 1094+26.05
Y = 405709.423
X = 820182.792
DELTA = 3°35'42"
D = 0°43'56"
T = 245.54'
L = 490.93'
R = 7824.31'
PC STA = 1091+80.50
Y = 405851.140
X = 819982.271
PT STA = 1096+71.43
Y = 405580.558
X = 820391.804
BK = S54°44'58.1"E
AH = S58°20'40.0"E

CURVE #18

PI STA = 1099+26.22
Y = 405446.840
X = 820608.689
DELTA = 10°43'35"
D = 3°25'47"
T = 156.83'
L = 312.75'
R = 1670.55'
PC STA = 1097+69.39
Y = 405529.147
X = 820475.191
PT STA = 1100+82.14
Y = 405390.817
X = 820755.174
BK = S58°20'40.0"E
AH = S69°04'15.2"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

PRE_175

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027209-AD
PLOT DATE : 8/31/2021 10:35 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

SEC 418116
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 4064,484.821
X = 823249.639

SEC 418117
SECTION CORNER
CONC. MON. W / BRASS CAP
Y = 406,438.644
X = 825,904.200

EP: 54+39.21
Y = 404902.865
X = 823228.337

PI: 1123+20.25
Y = 404604.876
X = 822850.731

N1° 08' 16"E

109°47'56"

PI: 1129+49.09
Y = 404380.167
X = 823438.060

1125 S69° 03' 48"E

1130

STH 20 WB R/L

S68° 46' 45"E

1135

PC: 1136+98.73

1140

PCC: 1139+33.44

PT: 1142+00.61

1145

CP #10728

CURVE #19

CURVE #20

CP #11571

PC: 1153+22.22

PI: 1150+05.41
Y = 404108.005
X = 825422.895

N83° 25' 33"E

1150

N83° 11' 36"E

CURVE #21

BELL SCHOOL RD.

BP: 45+38.09
Y = 404001.922
X = 823210.443

SEC 418129
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 403,856.557
X = 823,222.145

SEC 418130
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 403,8817.818
X = 825,868.837

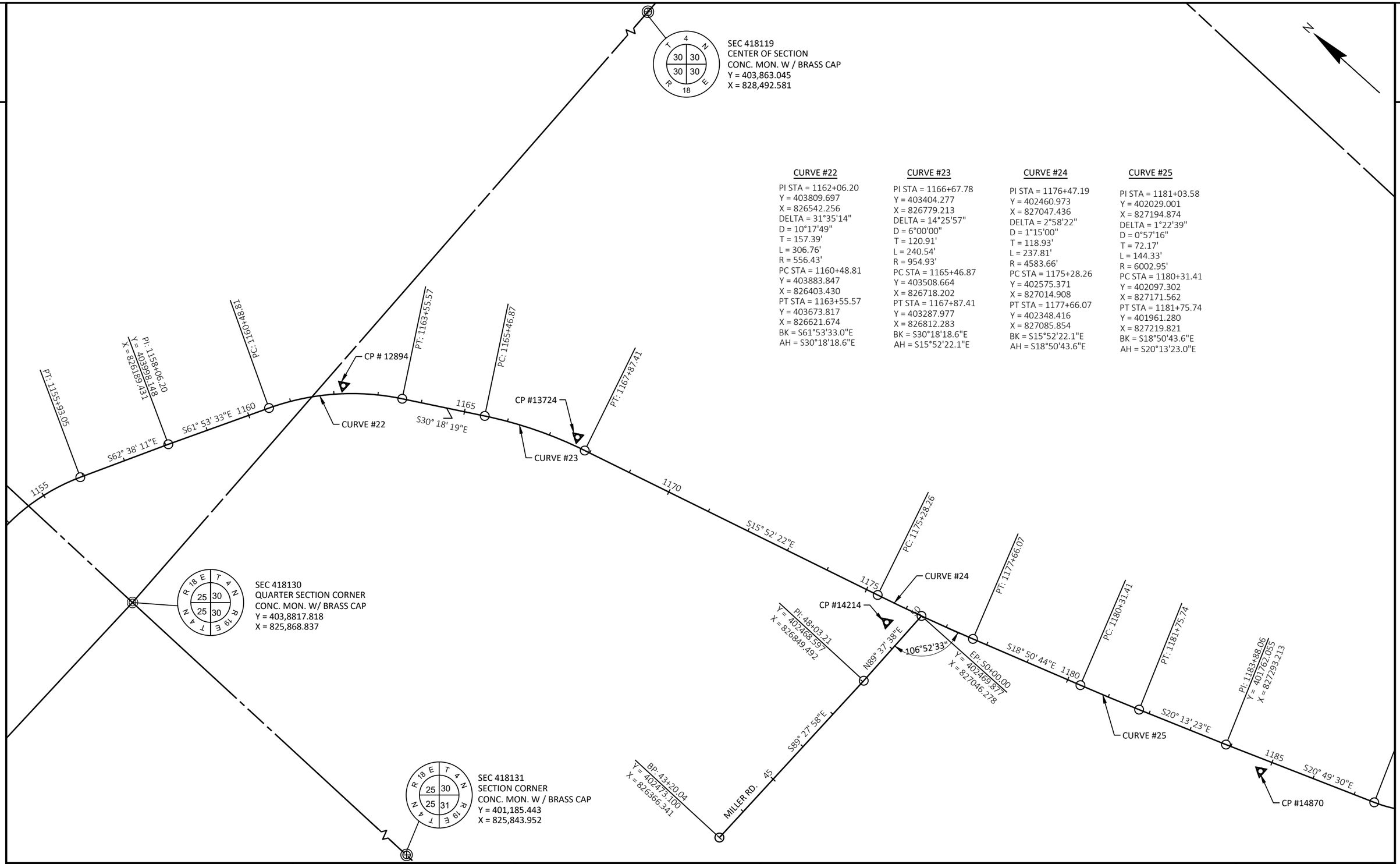
CURVE #19
PI STA = 1138+16.17
Y = 404066.319
X = 824246.338
DELTA = 5°12'26"
D = 2°13'07"
T = 117.44'
L = 234.72'
R = 2582.62'
PC STA = 1136+98.73
Y = 404108.828
X = 824136.861
PT STA = 1139+33.44
Y = 404033.921
X = 824359.221
BK = S68°46'45.1"E
AH = S73°59'11.2"E

CURVE #20
PI STA = 1140+68.82
Y = 403996.576
X = 824489.344
DELTA = 22°49'13"
D = 8°32'30"
T = 135.38'
L = 267.17'
R = 670.78'
PC STA = 1139+33.44
Y = 404033.921
X = 824359.221
PT STA = 1142+00.61
Y = 404012.621
X = 824623.767
BK = S73°59'11.2"E
AH = N83°11'36.0"E

CURVE #21
PI STA = 1154+61.73
Y = 404160.249
X = 825876.219
DELTA = 33°56'16"
D = 12°31'52"
T = 139.52'
L = 270.83'
R = 457.23'
PC STA = 1153+22.22
Y = 404144.276
X = 825737.619
PT STA = 1155+93.05
Y = 404096.121
X = 826000.126
BK = N83°25'33.3"E
AH = S62°38'11.1"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027210-AD
PLOT DATE : 8/31/2021 10:35 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:200 FT



CURVE #22

PI STA = 1162+06.20
Y = 403809.697
X = 826542.256
DELTA = 31°35'14"
D = 10°17'49"
T = 157.39'
L = 306.76'
R = 556.43'
PC STA = 1160+48.81
Y = 403883.847
X = 826403.430
PT STA = 1163+55.57
Y = 403673.817
X = 826621.674
BK = S61°53'33.0"E
AH = S30°18'18.6"E

CURVE #23

PI STA = 1166+67.78
Y = 403404.277
X = 826779.213
DELTA = 14°25'57"
D = 6°00'00"
T = 120.91'
L = 240.54'
R = 954.93'
PC STA = 1165+46.87
Y = 403508.664
X = 826718.202
PT STA = 1167+87.41
Y = 403287.977
X = 826812.283
BK = S30°18'18.6"E
AH = S15°52'22.1"E

CURVE #24

PI STA = 1176+47.19
Y = 402460.973
X = 827047.436
DELTA = 2°58'22"
D = 1°15'00"
T = 118.93'
L = 237.81'
R = 4583.66'
PC STA = 1175+28.26
Y = 402575.371
X = 827014.908
PT STA = 1177+66.07
Y = 402348.416
X = 827085.854
BK = S15°52'22.1"E
AH = S18°50'43.6"E

CURVE #25

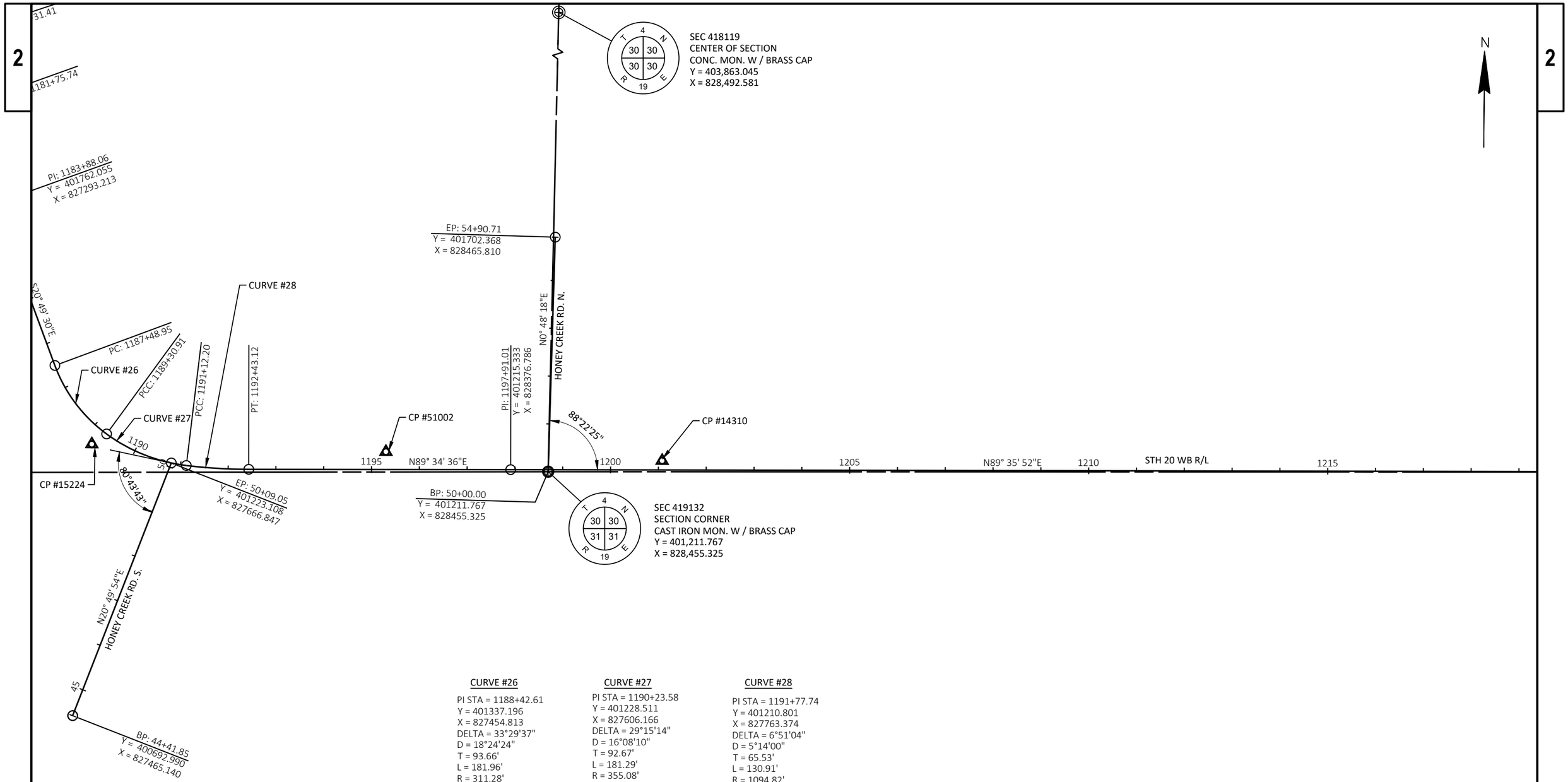
PI STA = 1181+03.58
Y = 402029.001
X = 827194.874
DELTA = 1°22'39"
D = 0°57'16"
T = 72.17'
L = 144.33'
R = 6002.95'
PC STA = 1180+31.41
Y = 402097.302
X = 827171.562
PT STA = 1181+75.74
Y = 401961.280
X = 827219.821
BK = S18°50'43.6"E
AH = S20°13'23.0"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET

PRE_177 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027211-AD

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT



CURVE #26

PI STA = 1188+42.61
Y = 401337.196
X = 827454.813
DELTA = 33°29'37"
D = 18°24'24"
T = 93.66'
L = 181.96'
R = 311.28'
PC STA = 1187+48.95
Y = 401424.741
X = 827421.514
PT STA = 1189+30.91
Y = 401282.563
X = 827530.894
BK = S20°49'29.6"E
AH = S54°19'06.3"E

CURVE #27

PI STA = 1190+23.58
Y = 401228.511
X = 827606.166
DELTA = 29°15'14"
D = 16°08'10"
T = 92.67'
L = 181.29'
R = 355.08'
PC STA = 1189+30.91
Y = 401282.563
X = 827530.894
PT STA = 1191+12.20
Y = 401218.137
X = 827698.253
BK = S54°19'06.3"E
AH = S83°34'20.4"E

CURVE #28

PI STA = 1191+77.74
Y = 401210.801
X = 827763.374
DELTA = 6°51'04"
D = 5°14'00"
T = 65.53'
L = 130.91'
R = 1094.82'
PC STA = 1191+12.20
Y = 401218.137
X = 827698.253
PT STA = 1192+43.12
Y = 401211.285
X = 827828.906
BK = S83°34'20.4"E
AH = N89°34'35.9"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027212-AD
PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

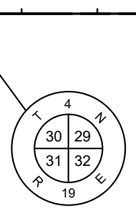
2

2

N

PI: 1225+11.99
Y = 401234.429
X = 831097.699

1220 N89° 30' 31"E 1225 1230 STH 20 WB R/L 1235 1240 1245 N88° 56' 16"E



SEC 419133
QUARTER SECTION CORNER
CAST IRON MON. W / BRASS CAP
Y = 401,234.429
X = 831,097.699

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

PRE_179

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027213-AD

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

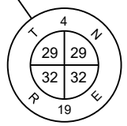
WISDOT/CADDS SHEET 42

2

N

EP: 1251+72.77
Y = 401283.753
X = 833758.017

N88° 56' 16"E 1250



SEC 419134
QUARTER SECTION CORNER
CAST IRON MON. W / BRASS CAP
Y = 401,283.753
X = 833,758.017

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 WB	SHEET E

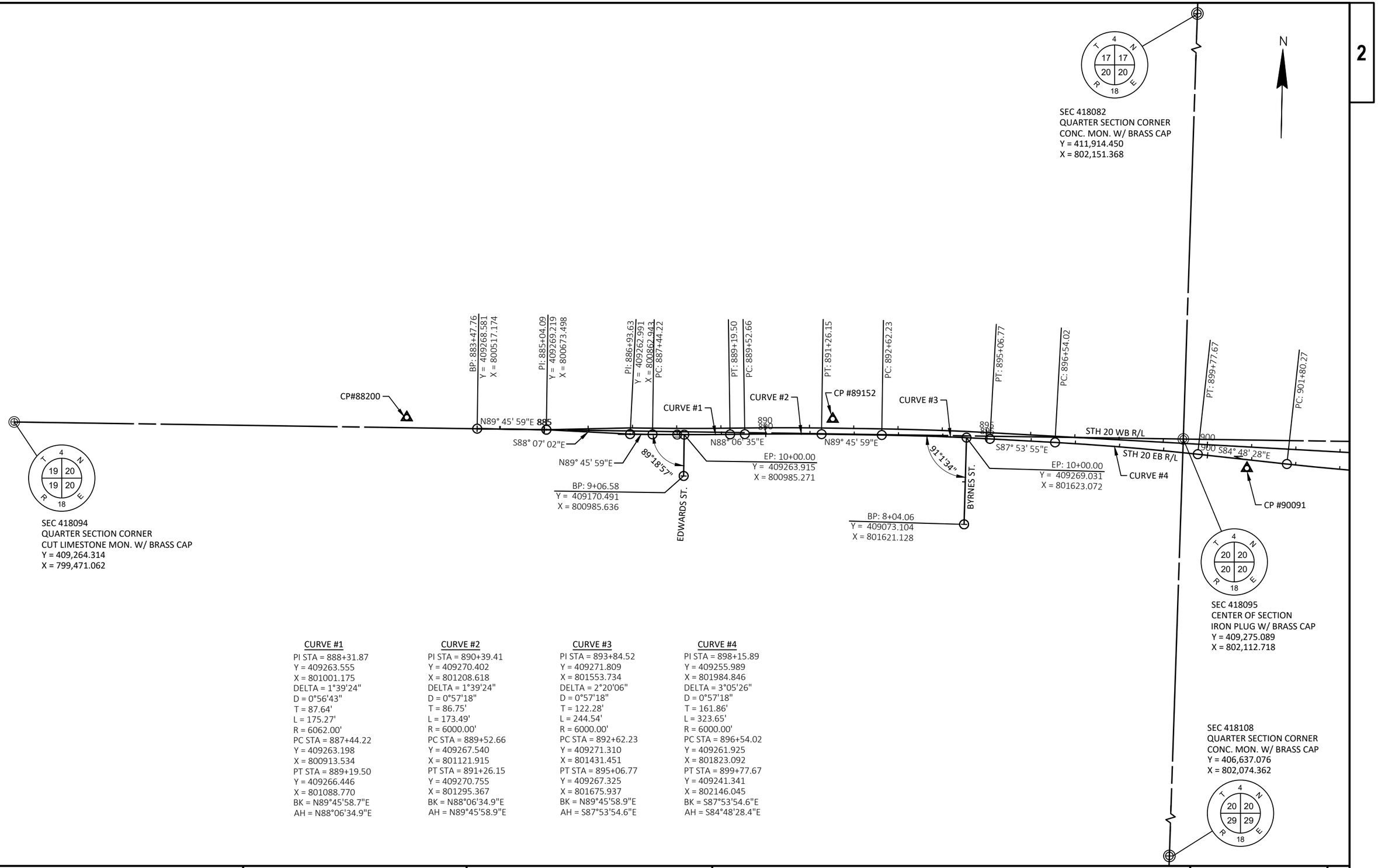
PRE_180

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027214-AD

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2



CURVE #1
PI STA = 888+31.87
Y = 409263.555
X = 801001.175
DELTA = 1°39'24"
D = 0°56'43"
T = 87.64'
L = 175.27'
R = 6062.00'
PC STA = 887+44.22
Y = 409263.198
X = 800913.534
PT STA = 889+19.50
Y = 409266.446
X = 801088.770
BK = N89°45'58.7"E
AH = N88°06'34.9"E

CURVE #2
PI STA = 890+39.41
Y = 409270.402
X = 801208.618
DELTA = 1°39'24"
D = 0°57'18"
T = 86.75'
L = 173.49'
R = 6000.00'
PC STA = 889+52.66
Y = 409267.540
X = 801121.915
PT STA = 891+26.15
Y = 409270.755
X = 801295.367
BK = N88°06'34.9"E
AH = N89°45'58.9"E

CURVE #3
PI STA = 893+84.52
Y = 409271.809
X = 801553.734
DELTA = 2°20'06"
D = 0°57'18"
T = 122.28'
L = 244.54'
R = 6000.00'
PC STA = 892+62.23
Y = 409271.310
X = 801431.451
PT STA = 895+06.77
Y = 409267.325
X = 801675.937
BK = N89°45'58.9"E
AH = S87°53'54.6"E

CURVE #4
PI STA = 898+15.89
Y = 409255.989
X = 801984.846
DELTA = 3°05'26"
D = 0°57'18"
T = 161.86'
L = 323.65'
R = 6000.00'
PC STA = 896+54.02
Y = 409261.925
X = 801823.092
PT STA = 899+77.67
Y = 409241.341
X = 802146.045
BK = S87°53'54.6"E
AH = S84°48'28.4"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 EB	SHEET PRE_181 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027202_AD.DWG
LAYOUT NAME - 027215-AD
PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

CAST IRON MONUMENT SET IN CONCRETE ROAD SURFACE AT THE SOUTH 1/16 CORNER OF THE NORTHEAST 1/4 OF SECTION 20, T4N R18E

PT: 907+49.08

PI: 914+28.75
Y = 409201.283
X = 803595.540

SEC 418083
CENTER OF SECTION
CONC. MON. W / BRASS CAP
Y = 411,930.269
X = 804,794.934

SEC 4096
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 409,286.148
X = 804,757.304

905 910 915 920 925 930

STH 20 WB R/L

905 910 N89° 45' 37"E 915 920 925 N89° 07' 07"E 930

STH 20 EB R/L

CURVE #5

CP #90950

CP #91817

CP #92655

CURVE #5

PI STA = 904+64.89
Y = 409197.250
X = 802631.266
DELTA = 5°25'54"
D = 0°57'18"
T = 284.62'
L = 568.81'
R = 6000.00'
PC STA = 901+80.27
Y = 409223.007
X = 802347.817
PT STA = 907+49.08
Y = 409198.440
X = 802915.881
BK = S84°48'28.4"E
AH = N89°45'37.4"E

SEC 418109
SECTION CORNER
IRON PLUG W/ BRASS CAP
Y = 406,640.660
X = 804,720.246

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 EB	SHEET E

PRE_182

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027202_AD.DWG
LAYOUT NAME - 027216-AD

PLOT DATE : 8/31/2021 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

N

SEC 4180844
WITNESS CORNER
CONC. MON. W/ BRASS CAP
Y = 411,928.482
X = 806,923.771

SEC 4180842
WITNESS CORNER
CONC. MON. W/ BRASS CAP
Y = 411,927.843
X = 807,844.401

SEC 4180843
WITNESS CORNER
CONC. MON. W/ BRASS CAP
Y = 411,643.849
X = 807,425.250

PC: 939+93.91
PT: 942+55.05
PI: 950+41.34
Y = 409287.211
X = 807206.761
EP: 952+29.82
Y = 409287.349
X = 807395.239

935
935
N89° 07' 07"E
STH 20 WB R/L
940
940
945
945
950
N87° 13' 13"E
N89° 57' 29"E
955
960

CP #93518
CURVE #6
STH 20 EB R/L
CP #94452
CP #95276
CP #96187

SEC 4097
CENTER OF SECTION
CAST IRON MON. W / CAST IRON CAP
Y = 409,287.349
X = 807,395.239

CURVE #6
PI STA = 941+24.49
Y = 409242.748
X = 806290.966
DELTA = 1°53'54"
D = 0°43'37"
T = 130.58'
L = 261.14'
R = 7882.00'
PC STA = 939+93.91
Y = 409240.739
X = 806160.402
PT STA = 942+55.05
Y = 409249.080
X = 806421.392
BK = N89°07'07.2"E
AH = N87°13'13.5"E

SEC 418110
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 406,645.725
X = 807,361.655

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - STH 20 EB	SHEET E

PRE_183

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027202_AD.DWG
LAYOUT NAME - 027217-AD
PLOT DATE : 8/31/2021 10:35 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2

2

CP# 90091

PC: 904+64.69

PI: 906+60.82

905

905

910

910

CAST IRON MONUMENT SET IN CONCRETE ROAD SURFACE AT THE SOUTH 1/16 CORNER OF THE NORTHEAST 1/4 OF SECTION 20, T4N R18E

CP# 90950

PI: 913+65.29

PI: 915+46.57

915

915

BP: 0+75.00
Y = 408331.356
X = 802313.376

PC: 3+56.62

CURVE #1

PI: 6+82.26

N59° 52' 54"E

5

N79° 25' 11"E

PC: 9+64.18

10

CURVE #2

15

CTH ES R/L

59°27'28"

PT: 17+91.83

CP# 91817

PC: 26+80.27

CURVE #3

30

25

N29° 45' 39"E

20

59°27'28"

970

920

STH 20 WB R/L

STH 20 EB R/L

925

925

930

CP# 92655

SEC 4096
QUARTER SECTION CORNER
CONC. MON. W/ BRASS CAP
Y = 409,286.148
X = 804,757.304

T 4 N
R 20 21 E
20 21
18

N

CURVE #1

PI STA = 5+21.04
Y = 408555.171
X = 802699.194
DELTA = 19°32'17"
D = 6°00'00"
T = 164.42'
L = 325.64'
R = 954.95'
PC STA = 3+56.62
Y = 408472.669
X = 802556.975
PT STA = 6+82.26
Y = 408585.359
X = 802860.815
BK = N59°52'54.7"E
AH = N79°25'11.7"E

CURVE #2

PI STA = 14+06.02
Y = 408718.249
X = 803572.266
DELTA = 49°39'32"
D = 6°00'00"
T = 441.84'
L = 827.65'
R = 954.93'
PC STA = 9+64.18
Y = 408637.123
X = 803137.942
PT STA = 17+91.83
Y = 409101.808
X = 803791.586
BK = N79°25'11.5"E
AH = N29°45'39.6"E

CURVE #3

PI STA = 29+99.99
Y = 410150.620
X = 804391.298
DELTA = 9°34'10"
D = 1°30'00"
T = 319.72'
L = 637.96'
R = 3819.70'
PC STA = 26+80.27
Y = 409873.067
X = 804232.592
PT STA = 33+18.23
Y = 410397.927
X = 804593.936
BK = N29°45'39.8"E
AH = N39°19'49.8"E

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - CTH ES	SHEET E

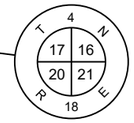
PRE_184

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027203_AD.DWG
LAYOUT NAME - 027218-AD

PLOT DATE : 8/31/2021 10:36 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2



SEC 418083
CENTER OF SECTION
CONC. MON. W / BRASS CAP
Y = 411,930.269
X = 804,794.934

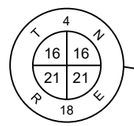
N

35 40 45 N39° 19' 49"E 50 55 60

EP: 61+68.01
Y = 412602.243
X = 806400.102

PT: 33+18.23

SEC 4180844
WITNESS CORNER
CONC. MON. W/ BRASS CAP
Y = 411,928.482
X = 806,923.771

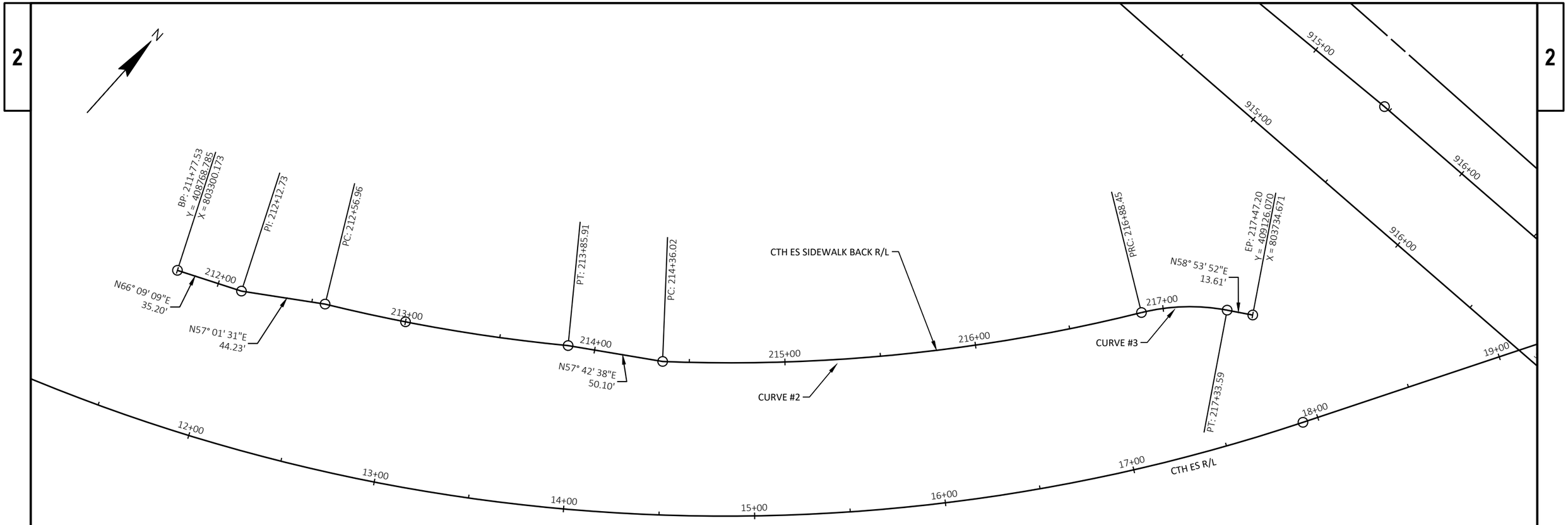


PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - CTH ES	SHEET E

PRE_185

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027203_AD.DWG
LAYOUT NAME - 027219-AD

PLOT DATE : 8/31/2021 10:36 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:200 FT



CURVE #1

PI STA = 213+21.55
Y = 408837.436
X = 803426.482
DELTA = 8°11'40"
D = 6°21'16"
T = 64.59'
L = 128.96'
R = 901.67'
PC STA = 212+56.96
Y = 408807.087
X = 803369.468
PT STA = 213+85.91
Y = 408875.601
X = 803478.589
BK = N61°58'24.5"E
AH = N53°46'44.6"E

CURVE #2

PI STA = 215+63.08
Y = 408983.252
X = 803618.940
DELTA = 16°11'40"
D = 6°24'55"
T = 127.06'
L = 252.43'
R = 893.11'
PC STA = 214+36.02
Y = 408902.367
X = 803520.945
PT STA = 216+88.45
Y = 409088.259
X = 803690.487
BK = N50°27'48.9"E
AH = N34°16'08.5"E

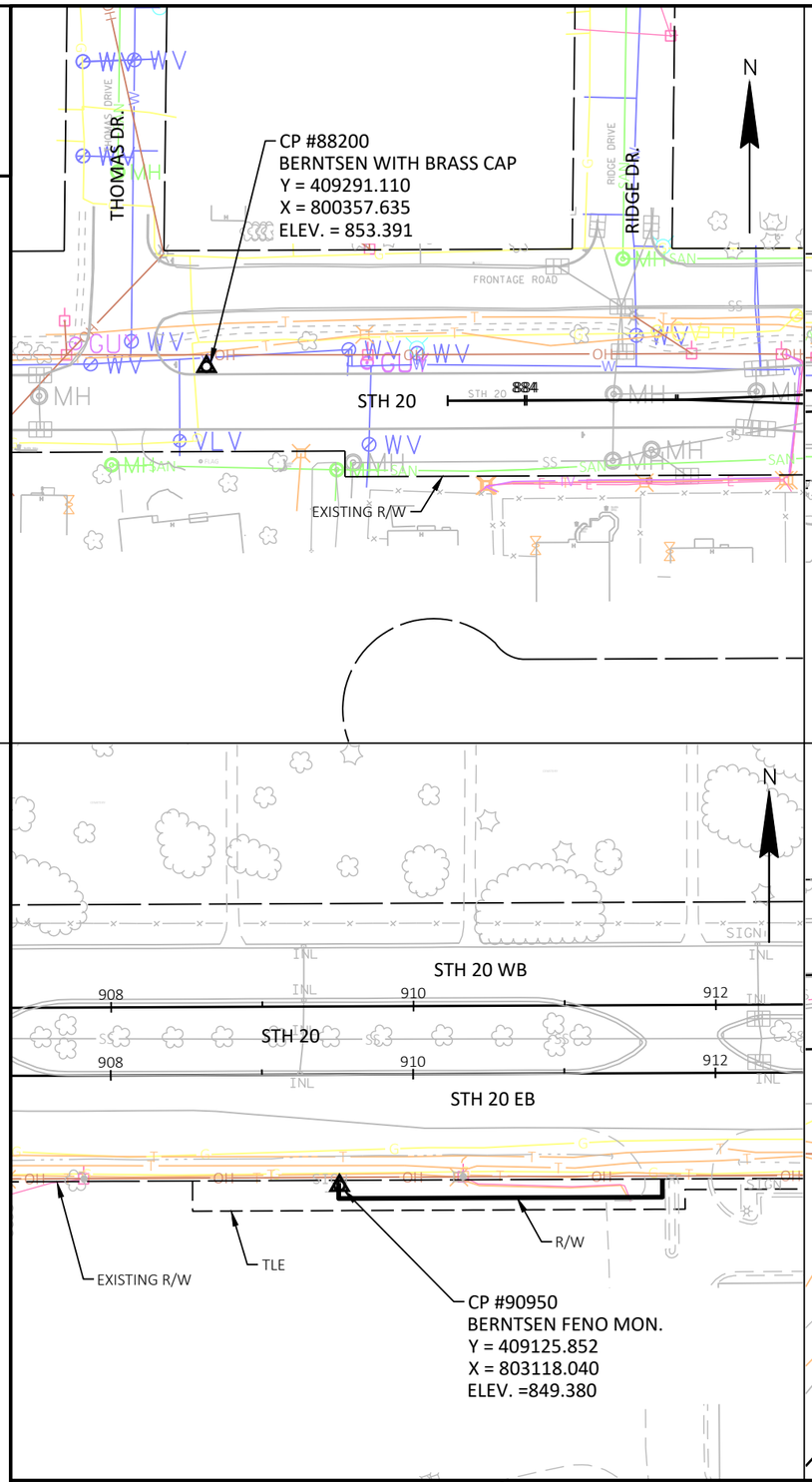
CURVE #3

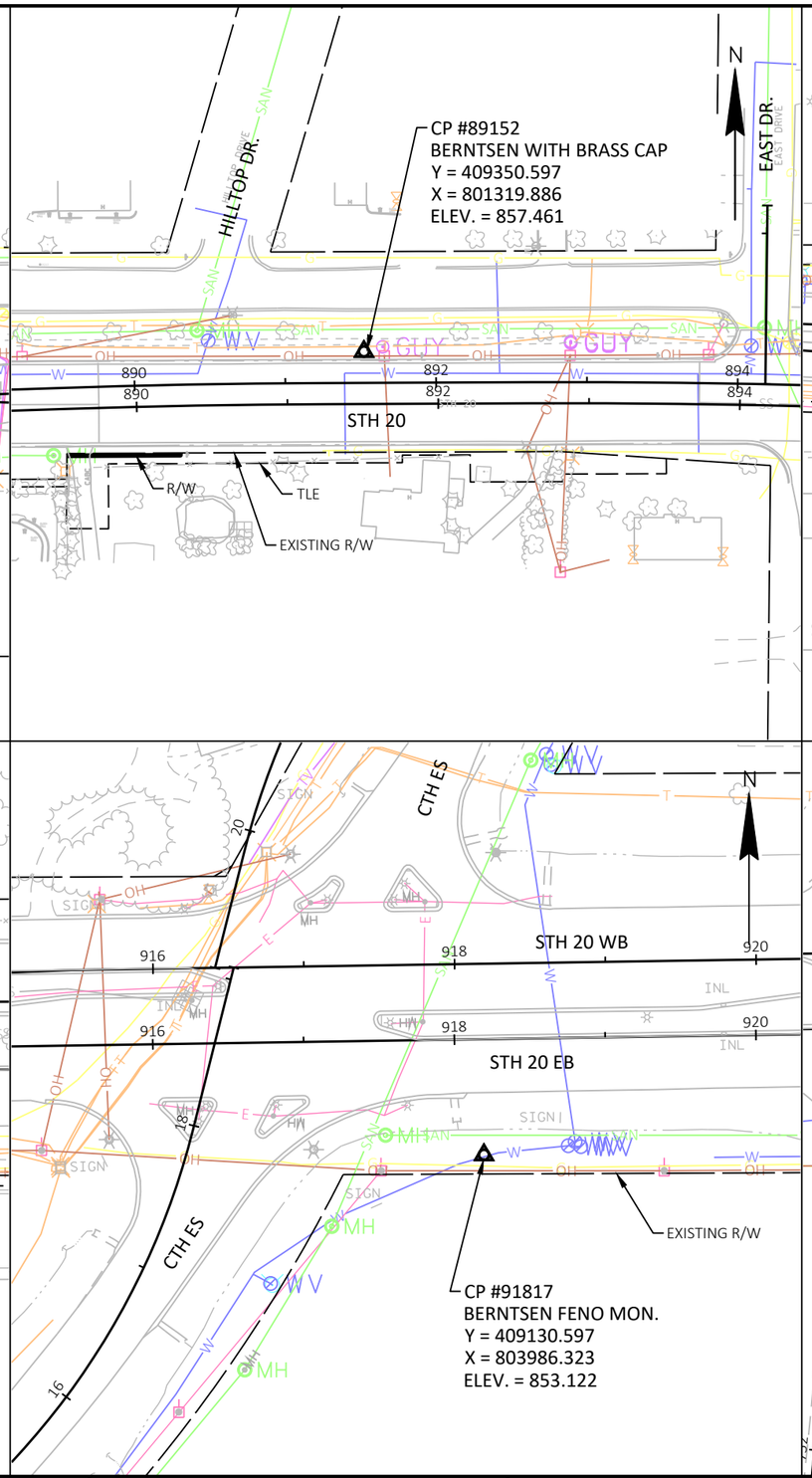
PI STA = 217+11.38
Y = 409107.201
X = 803703.394
DELTA = 24°37'44"
D = 54°34'03"
T = 22.92'
L = 45.13'
R = 105.00'
PC STA = 216+88.45
Y = 409088.259
X = 803690.487
PT STA = 217+33.59
Y = 409119.042
X = 803723.020
BK = N34°16'08.5"E
AH = N58°53'52.1"E

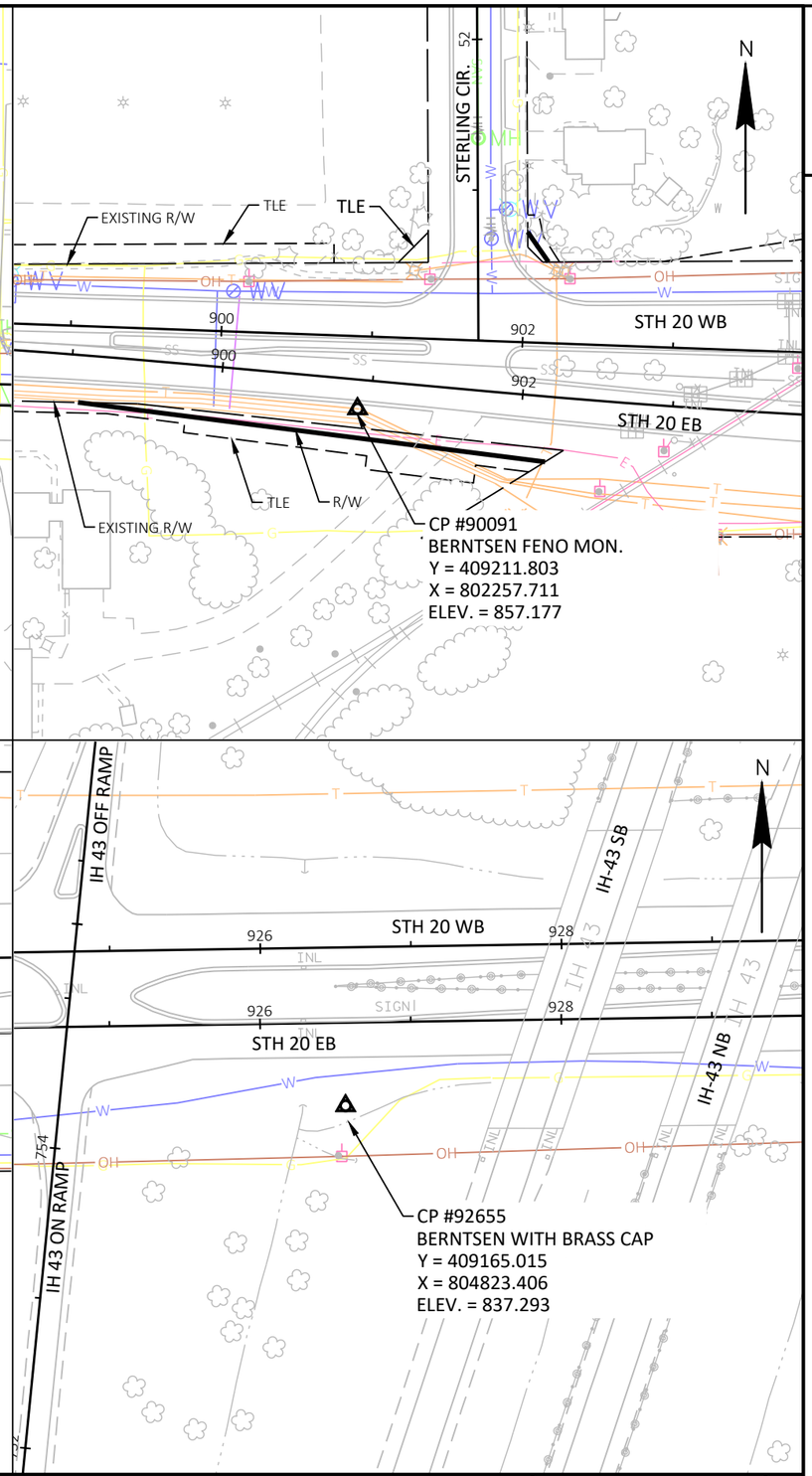
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	ALIGNMENT LAYOUT - CTH ES SIDEWALK BACK	SHEET E

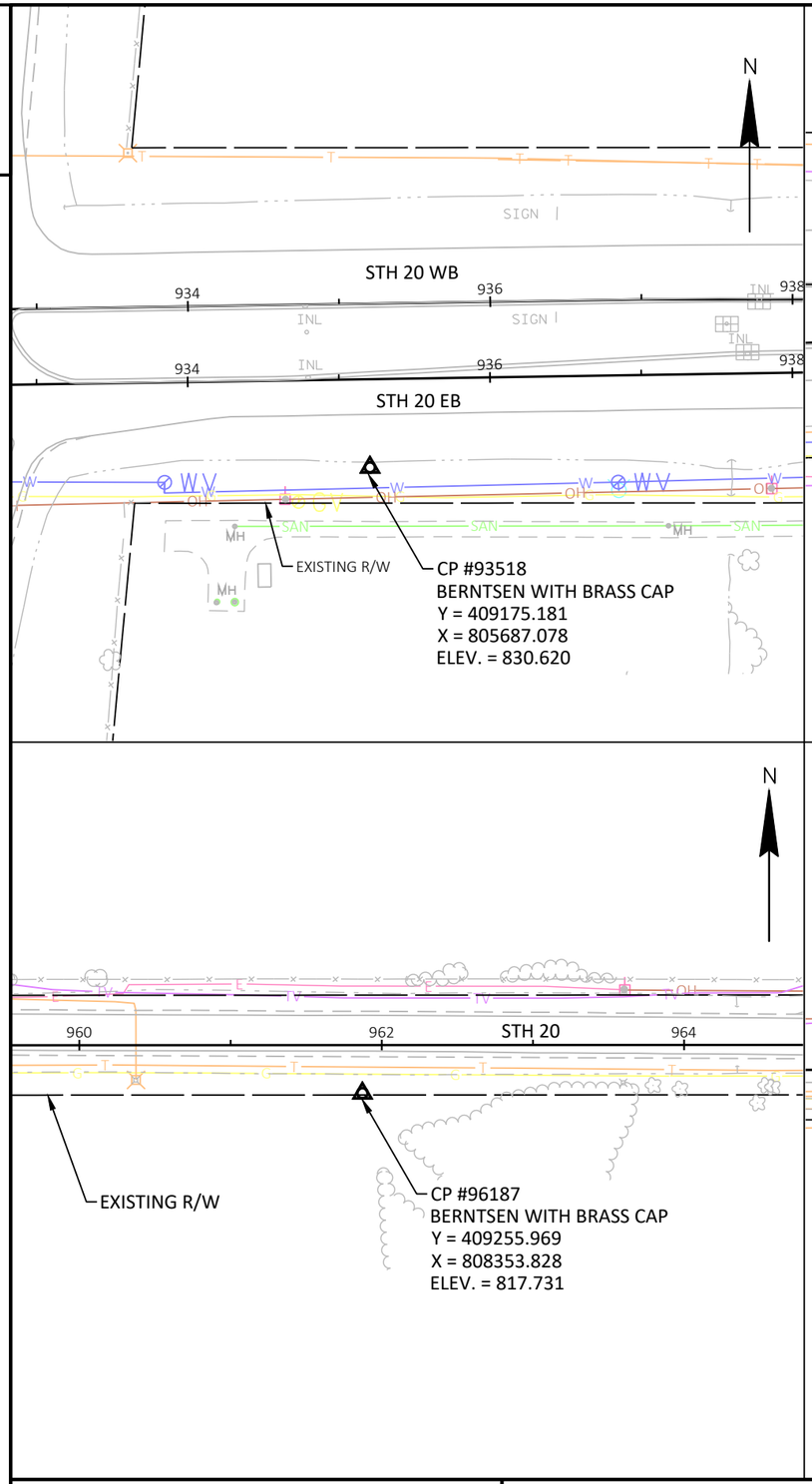
PRE_186

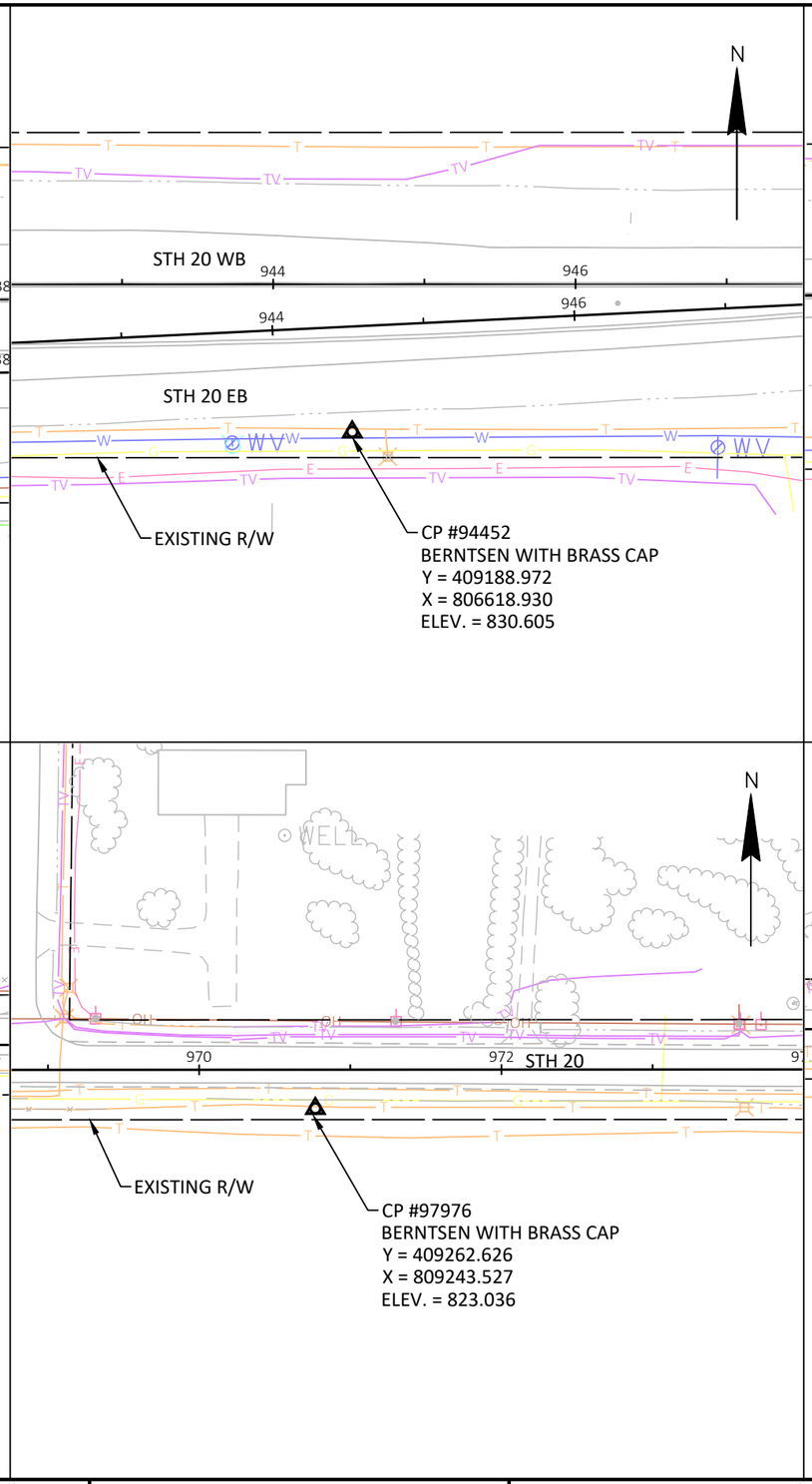
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027203A_AD.DWG
LAYOUT NAME - 027220-AD
PLOT DATE : 8/31/2021 10:36 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

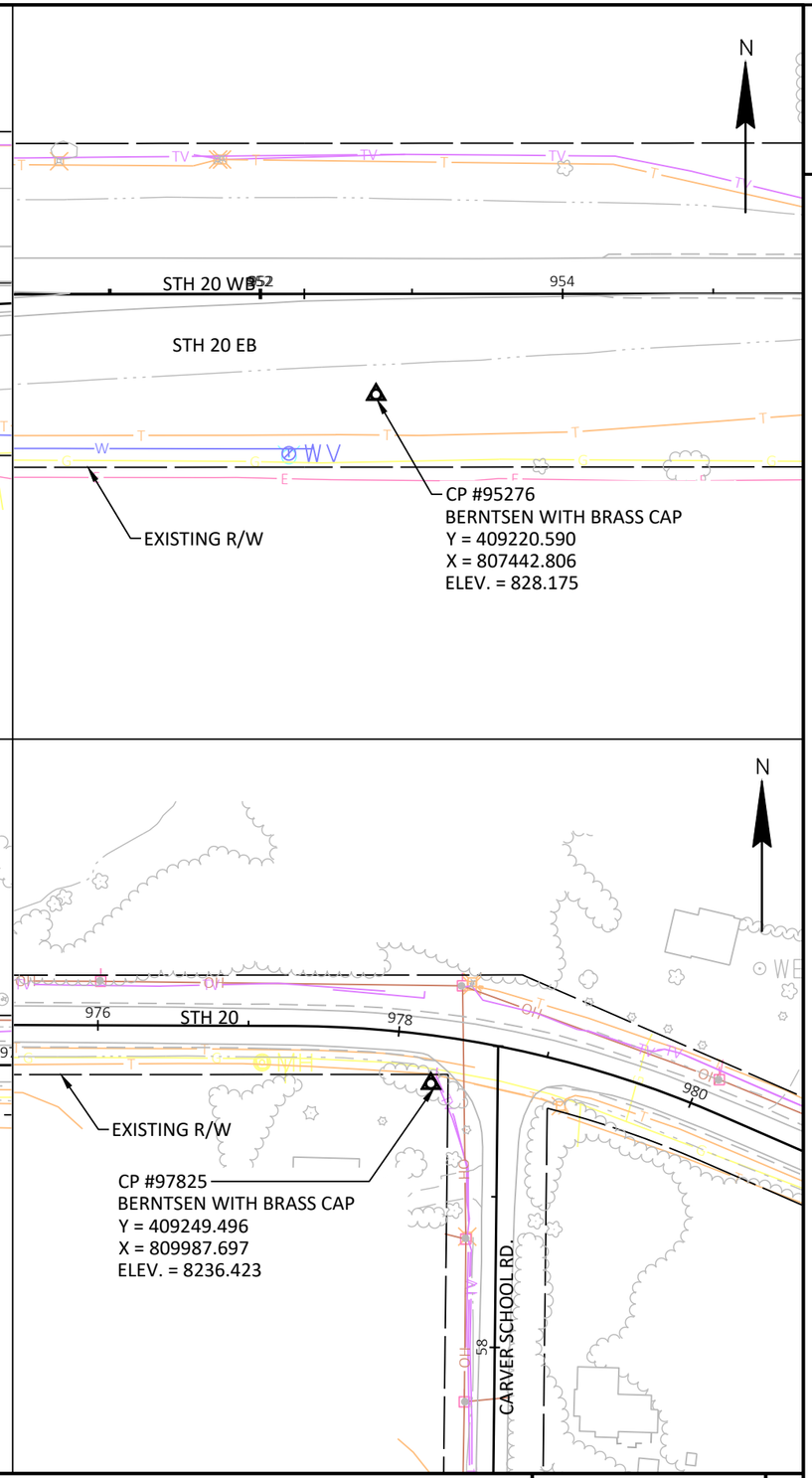

THOMAS DR.
RIDGE DR.
FRONTAGE ROAD
STH 20
CP #88200
BERNTSEN WITH BRASS CAP
Y = 409291.110
X = 800357.635
ELEV. = 853.391
EXISTING R/W
STH 20 WB
STH 20 EB
908
910
912
TLE
R/W
EXISTING R/W
CP #90950
BERNTSEN FENO MON.
Y = 409125.852
X = 803118.040
ELEV. =849.380


HILLTOP DR.
EAST DR.
CP #89152
BERNTSEN WITH BRASS CAP
Y = 409350.597
X = 801319.886
ELEV. = 857.461
STH 20
890
892
894
R/W
TLE
EXISTING R/W
CTH ES
STH 20 WB
STH 20 EB
916
918
920
EXISTING R/W
CP #91817
BERNTSEN FENO MON.
Y = 409130.597
X = 803986.323
ELEV. = 853.122


STERLING CIR.
EXISTING R/W
TLE
STH 20 WB
STH 20 EB
900
902
TLE
R/W
EXISTING R/W
CP #90091
BERNTSEN FENO MON.
Y = 409211.803
X = 802257.711
ELEV. = 857.177
IH 43 OFF RAMP
IH 43 ON RAMP
IH-43 SB
IH-43 NB
926
928
754





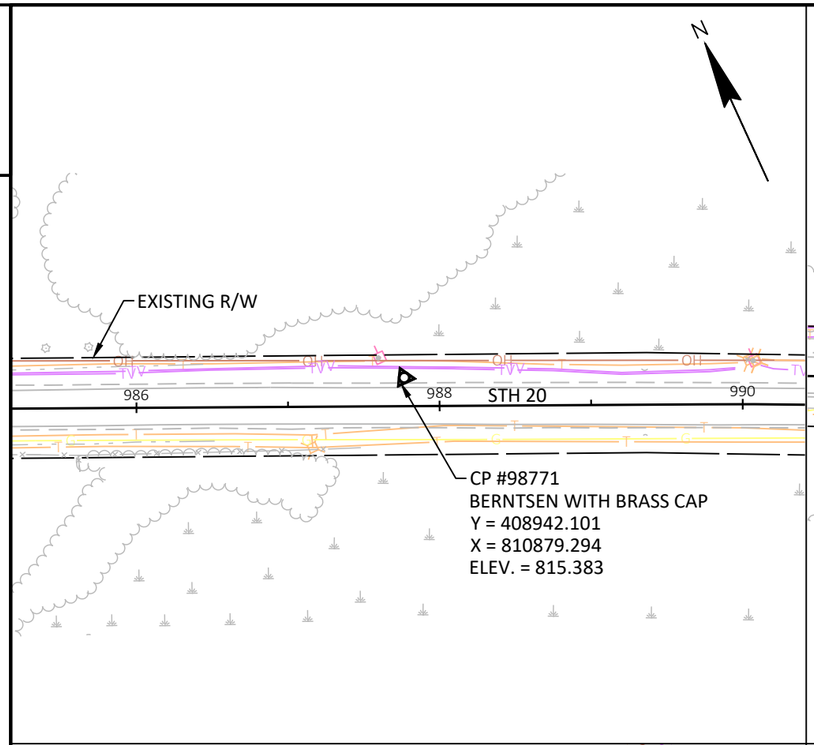


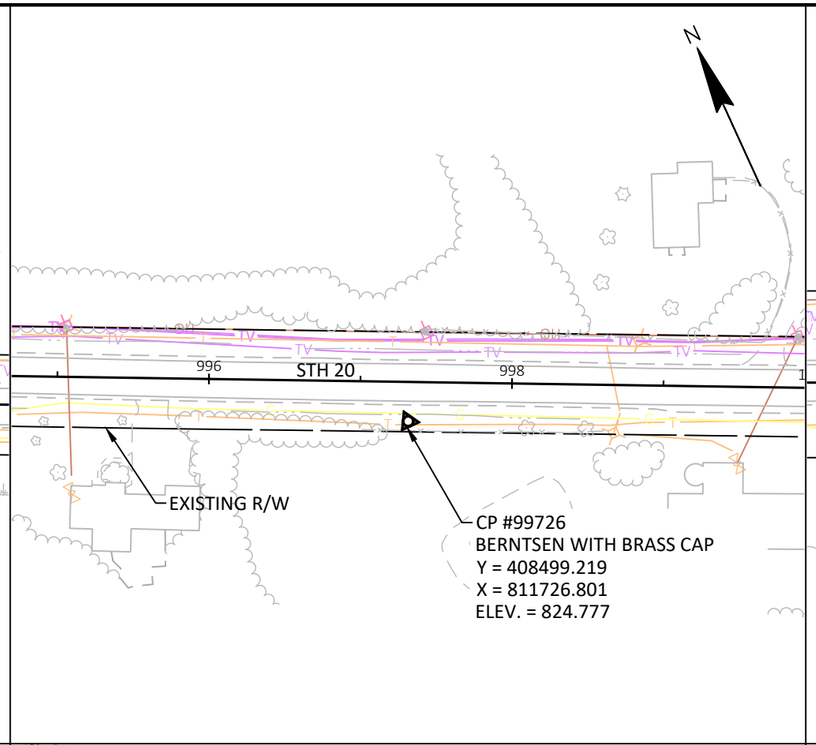
PROJECT NO: 2689-03-70	HWY: SHT 20	COUNTY: WALWORTH/RACINE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

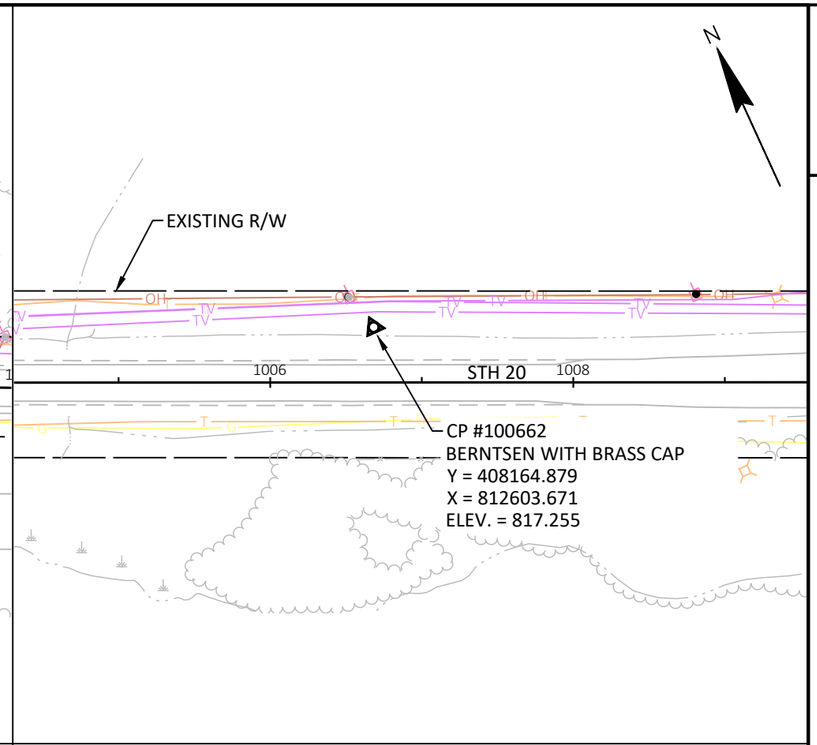
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027204_AD.DWG
LAYOUT NAME - 027222-AD

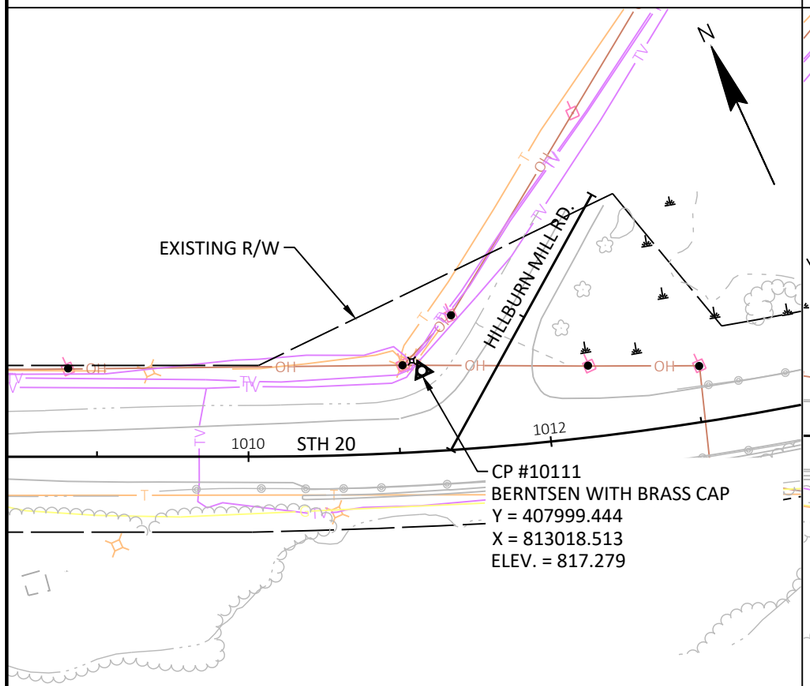
PLOT DATE : 8/31/2021 10:40 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

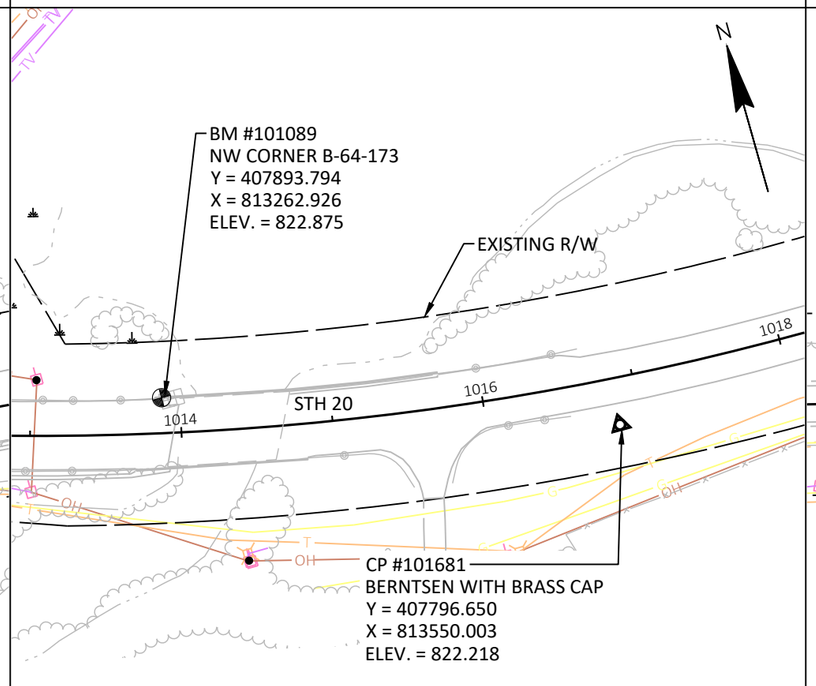
WISDOT/CADDS SHEET 42

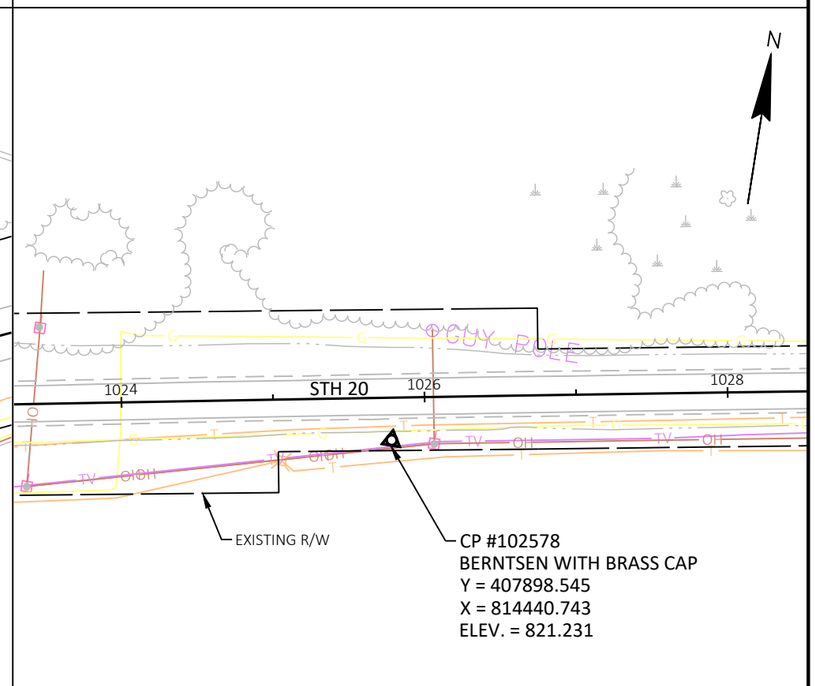

N
EXISTING R/W
986
988
STH 20
990
CP #98771
BERNTSEN WITH BRASS CAP
Y = 408942.101
X = 810879.294
ELEV. = 815.383

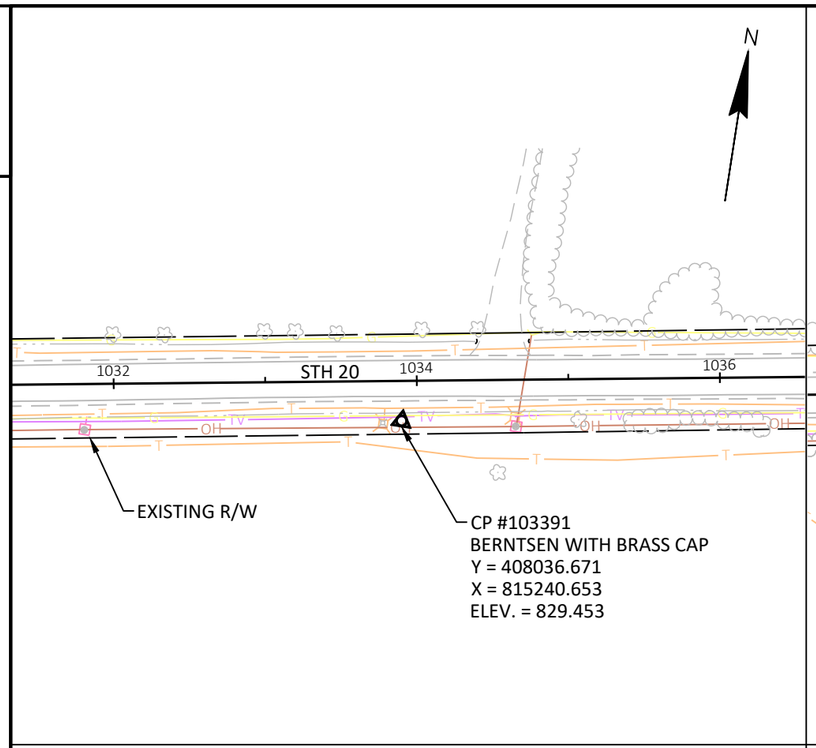

N
996
STH 20
998
EXISTING R/W
CP #99726
BERNTSEN WITH BRASS CAP
Y = 408499.219
X = 811726.801
ELEV. = 824.777

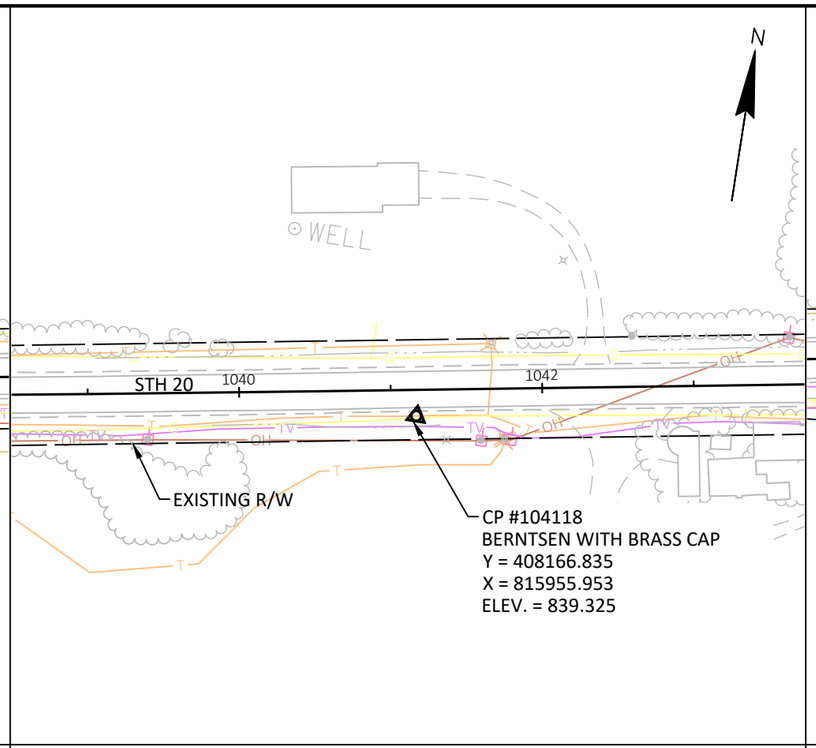

N
EXISTING R/W
1006
STH 20
1008
CP #100662
BERNTSEN WITH BRASS CAP
Y = 408164.879
X = 812603.671
ELEV. = 817.255

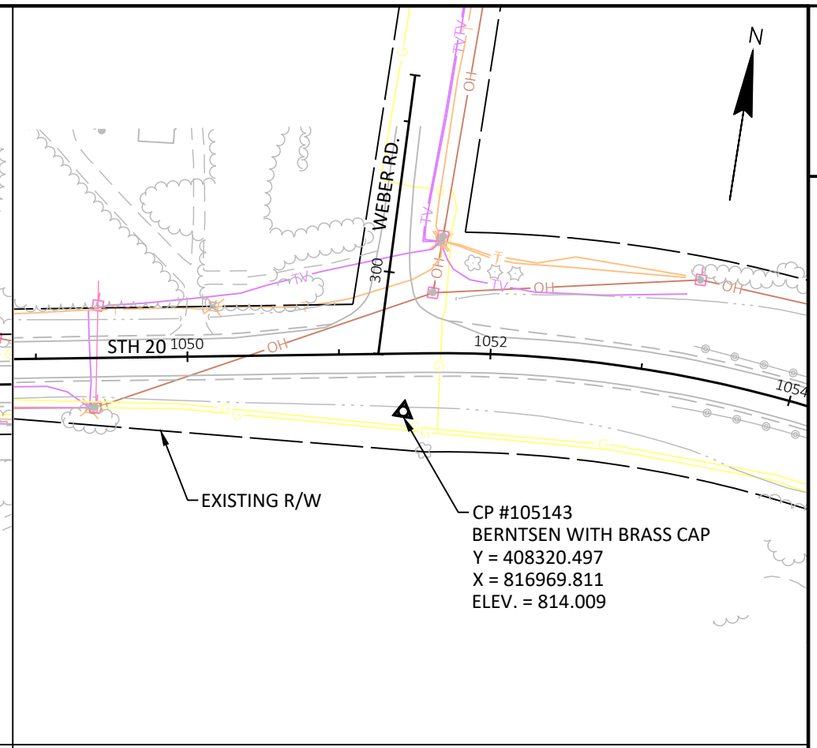

N
EXISTING R/W
HILLBURN MILL RD.
1010
STH 20
1012
CP #10111
BERNTSEN WITH BRASS CAP
Y = 407999.444
X = 813018.513
ELEV. = 817.279

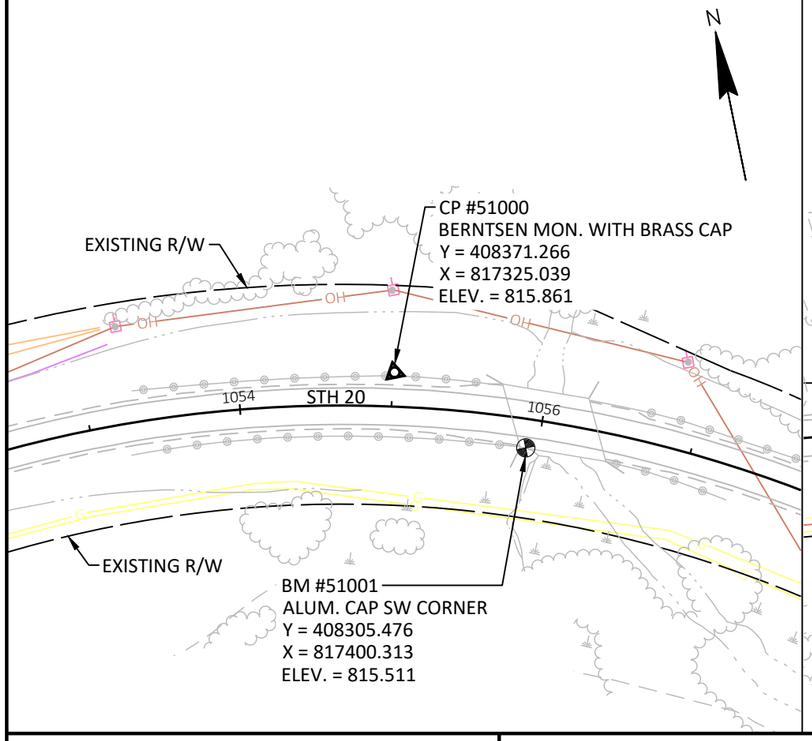

N
BM #101089
NW CORNER B-64-173
Y = 407893.794
X = 813262.926
ELEV. = 822.875
EXISTING R/W
1014
STH 20
1016
1018
CP #101681
BERNTSEN WITH BRASS CAP
Y = 407796.650
X = 813550.003
ELEV. = 822.218

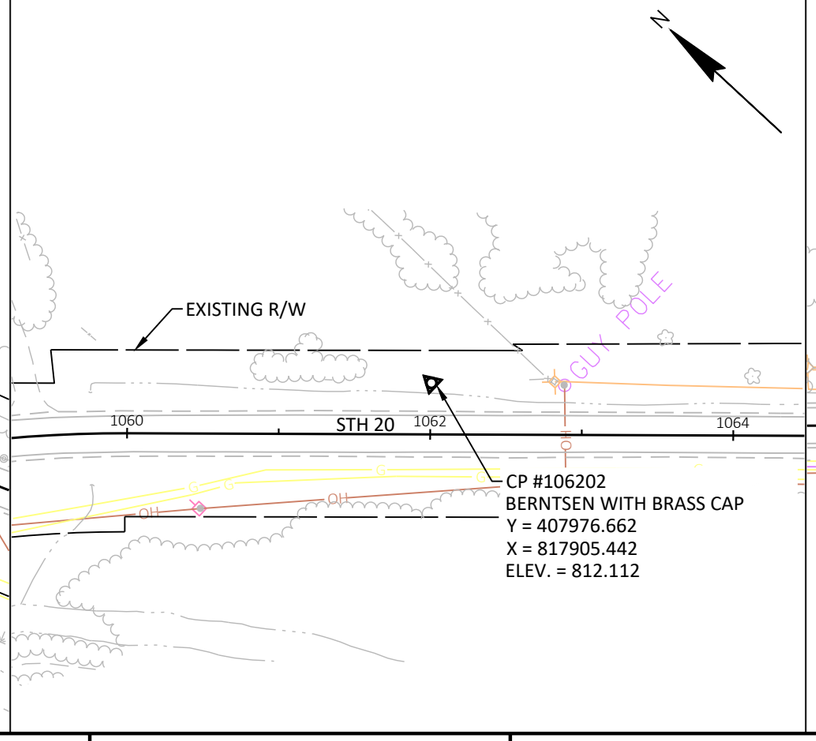

N
1024
STH 20
1026
1028
EXISTING R/W
CP #102578
BERNTSEN WITH BRASS CAP
Y = 407898.545
X = 814440.743
ELEV. = 821.231

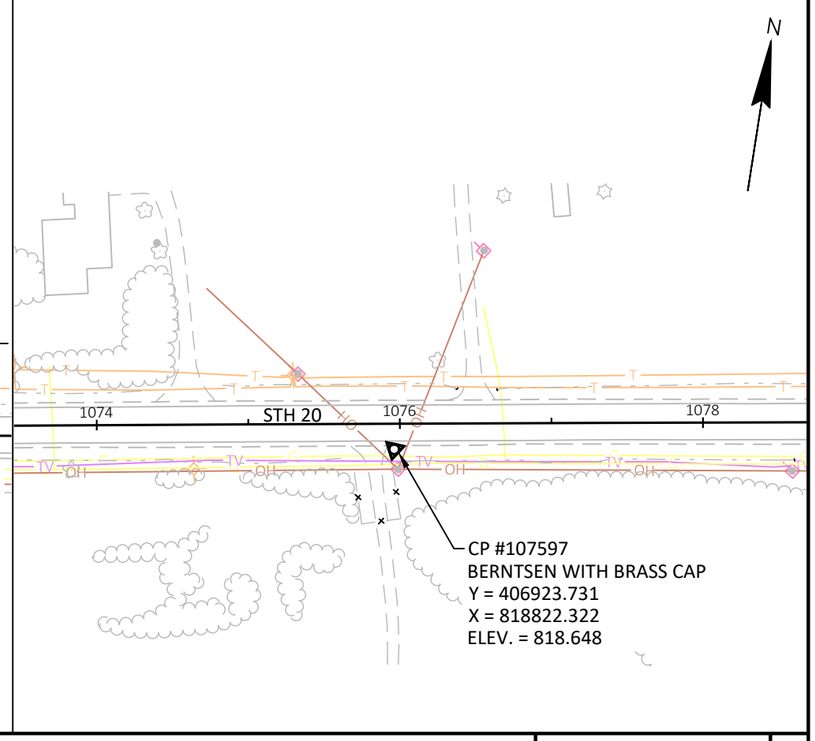






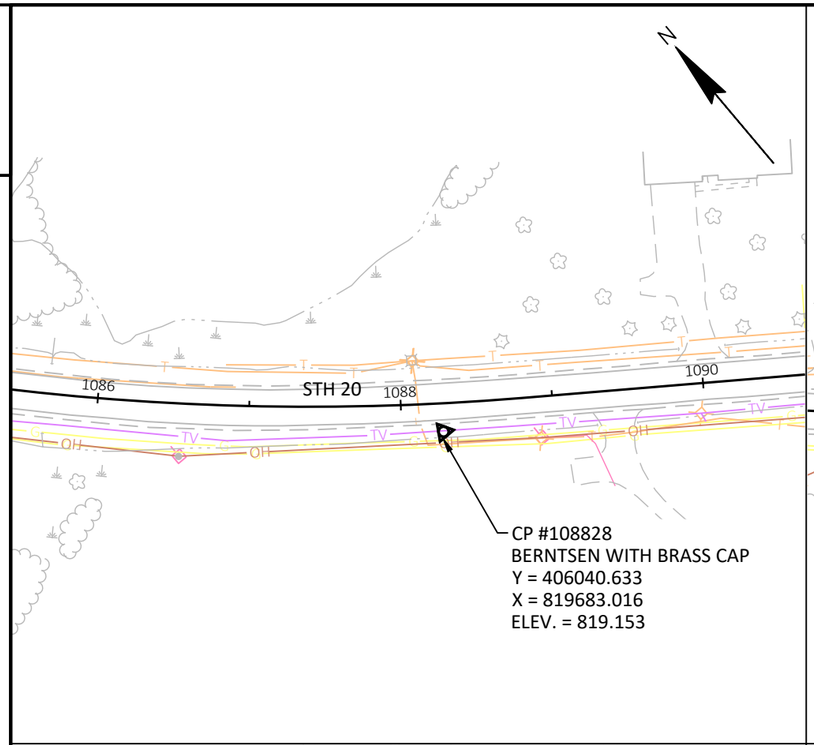


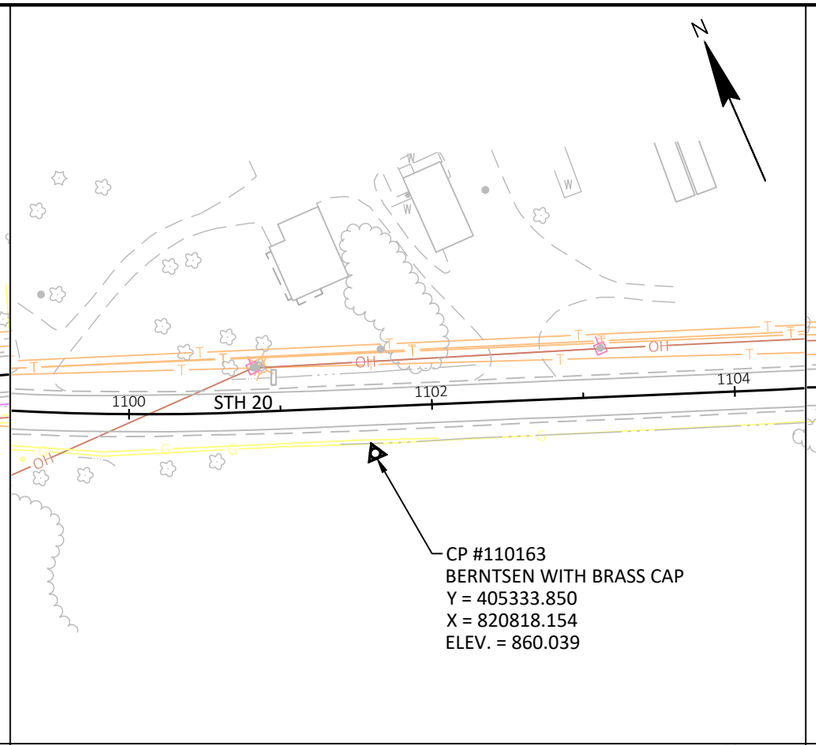


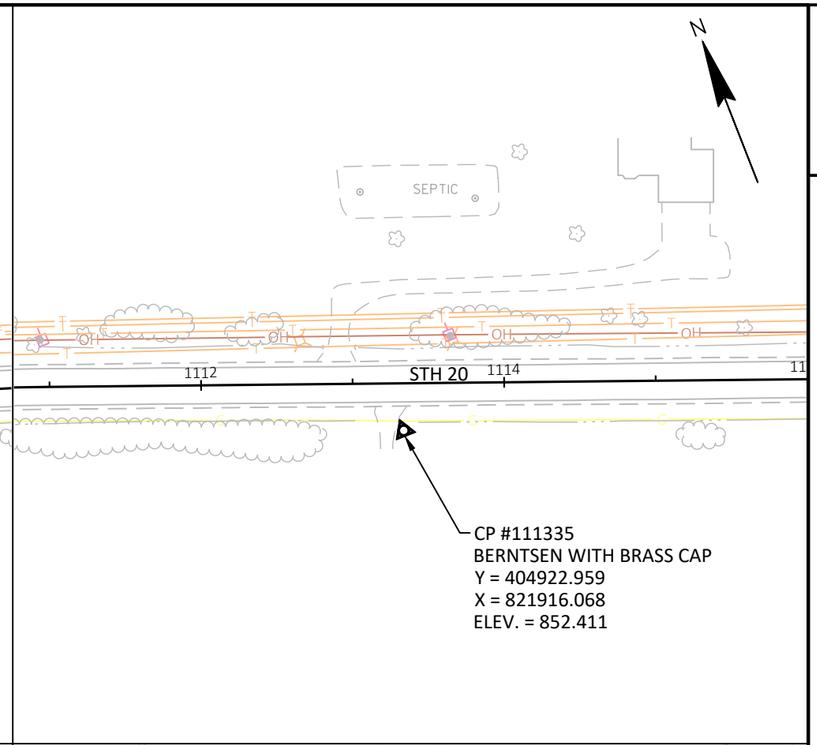


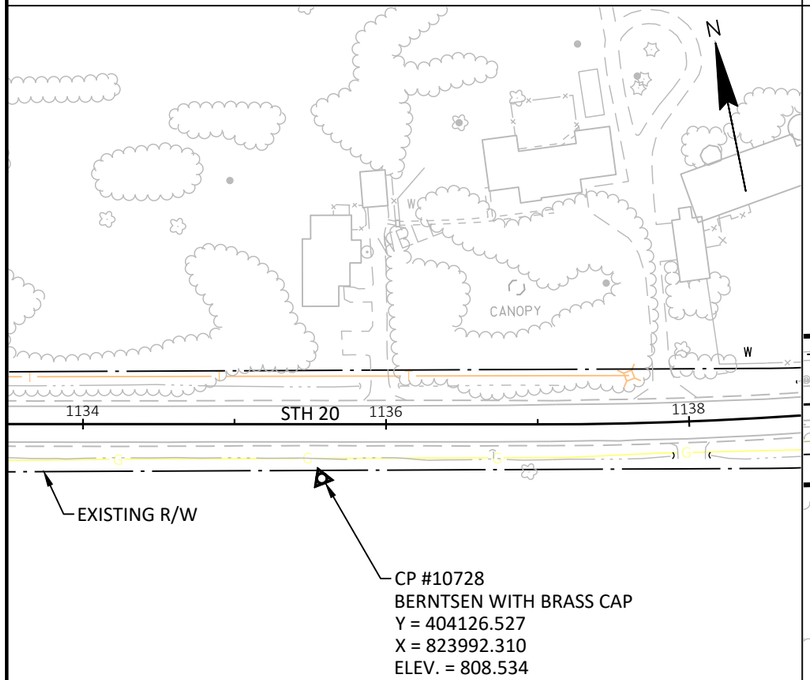
PROJECT NO: 2689-03-70	HWY: SHT 20	COUNTY: WALWORTH/RACINE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

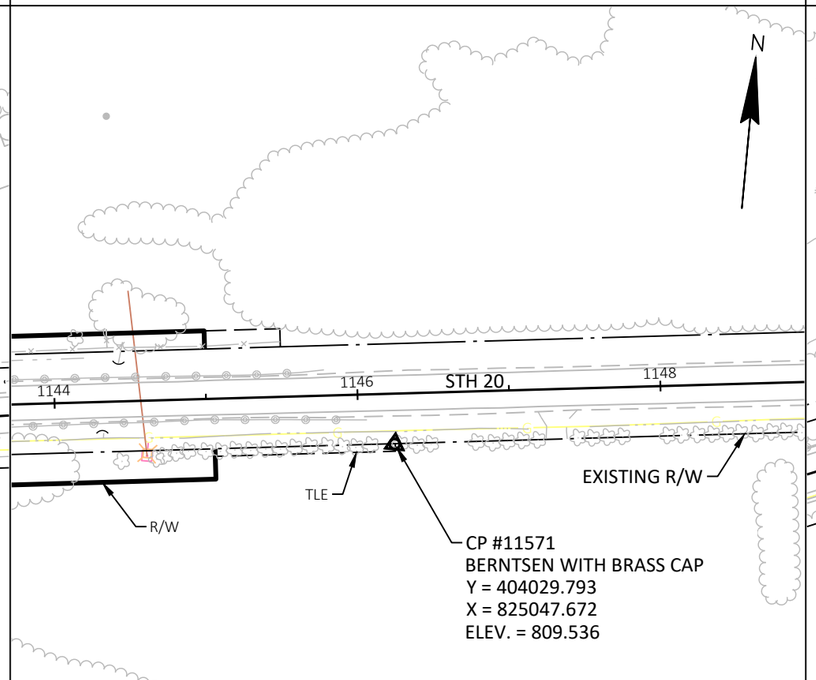
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027204_AD.DWG
LAYOUT NAME - 027224-AD
PLOT DATE : 8/31/2021 10:45 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : ############
PRE_190
WISDOT/CADDS SHEET 42

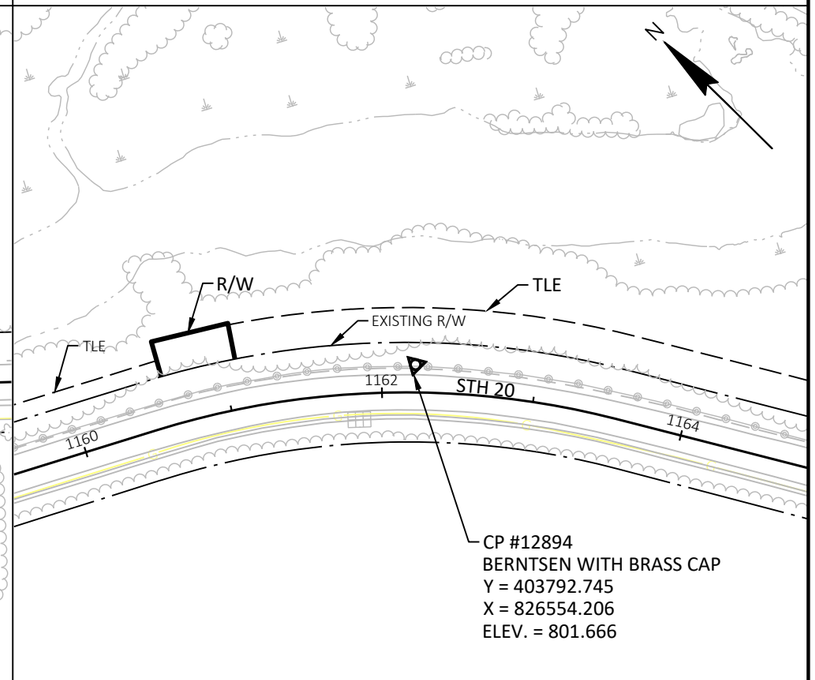












PROJECT NO: 2689-03-70	HWY: SHT 20	COUNTY: WALWORTH/RACINE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

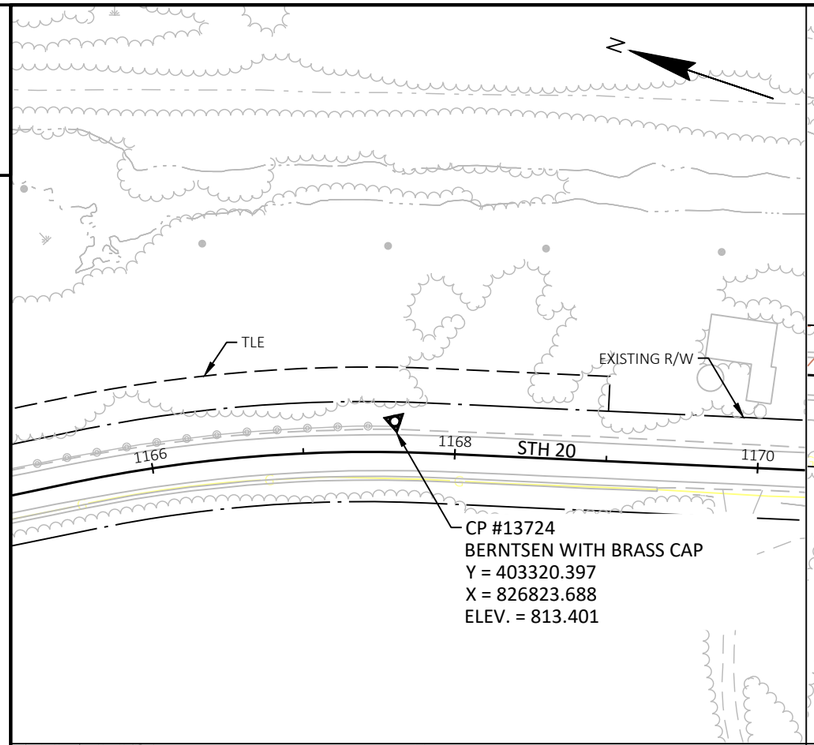
PRE_191

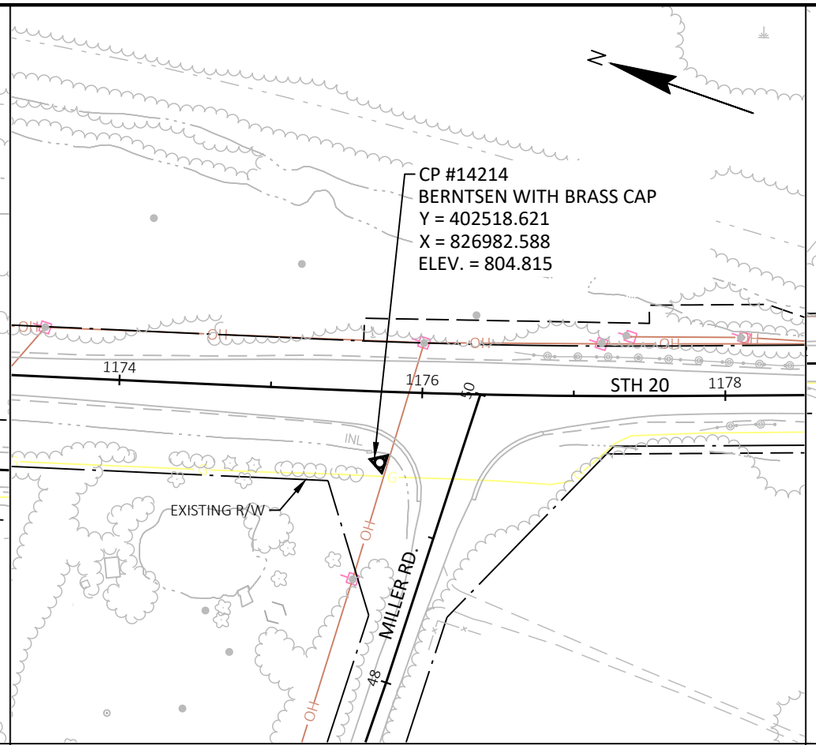
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\027204_AD.DWG
LAYOUT NAME - 027225-AD

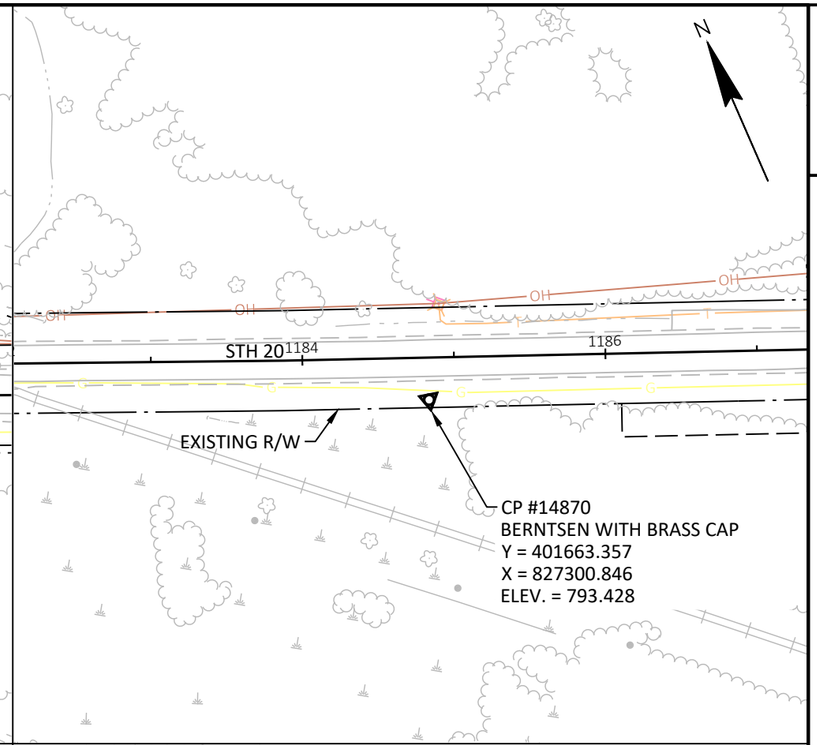
PLOT DATE : 8/31/2021 10:47 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : ##########

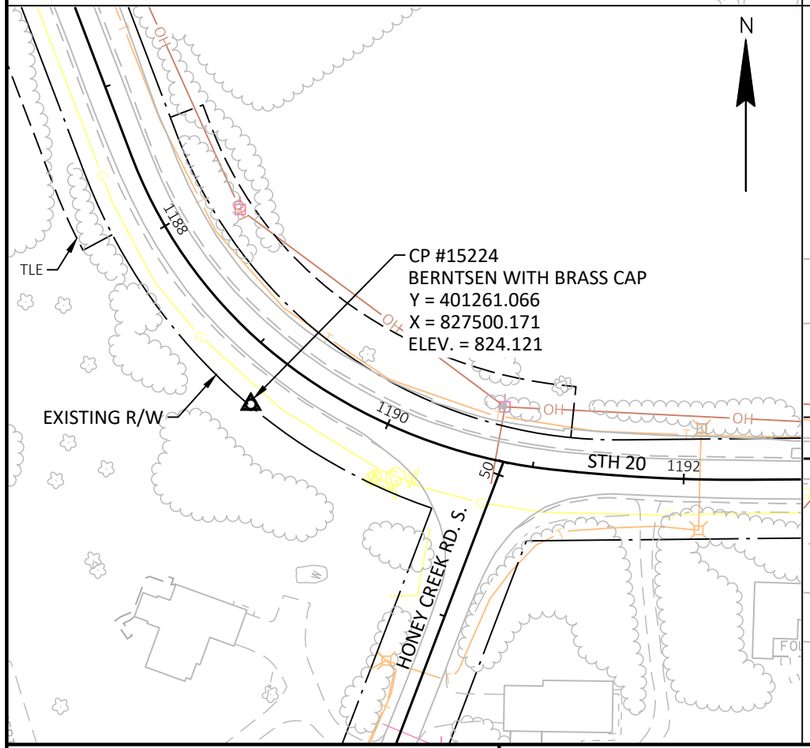
WISDOT/CADDS SHEET 42

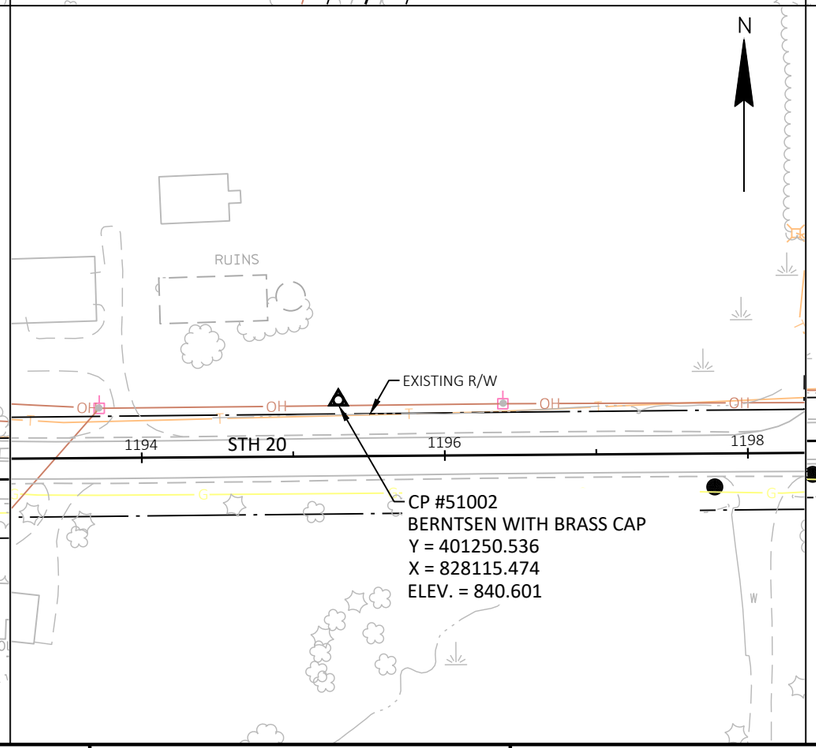
2

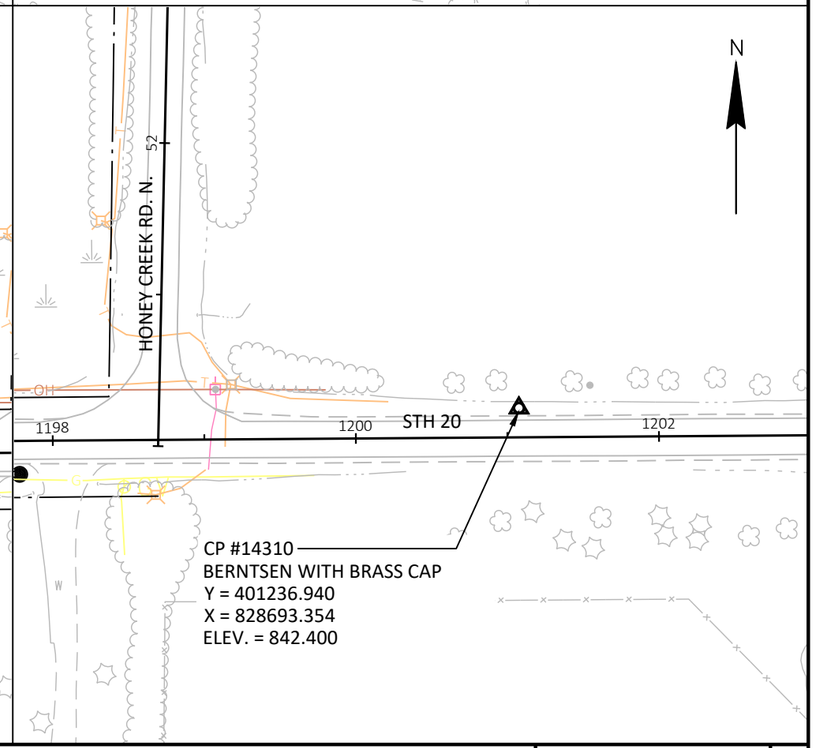






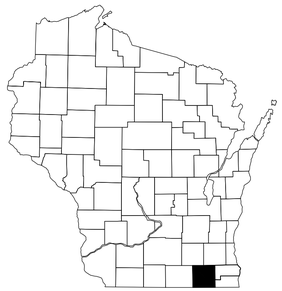






PROJECT NO: 2689-03-70	HWY: SHT 20	COUNTY: WALWORTH/RACINE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 2698-03-21
EAST TROY - RACINE
THOMAS DRIVE TO EAST COUNTY LINE
STH 20
WALWORTH COUNTY



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
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
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)

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

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)

PARCEL NUMBER 25 — UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

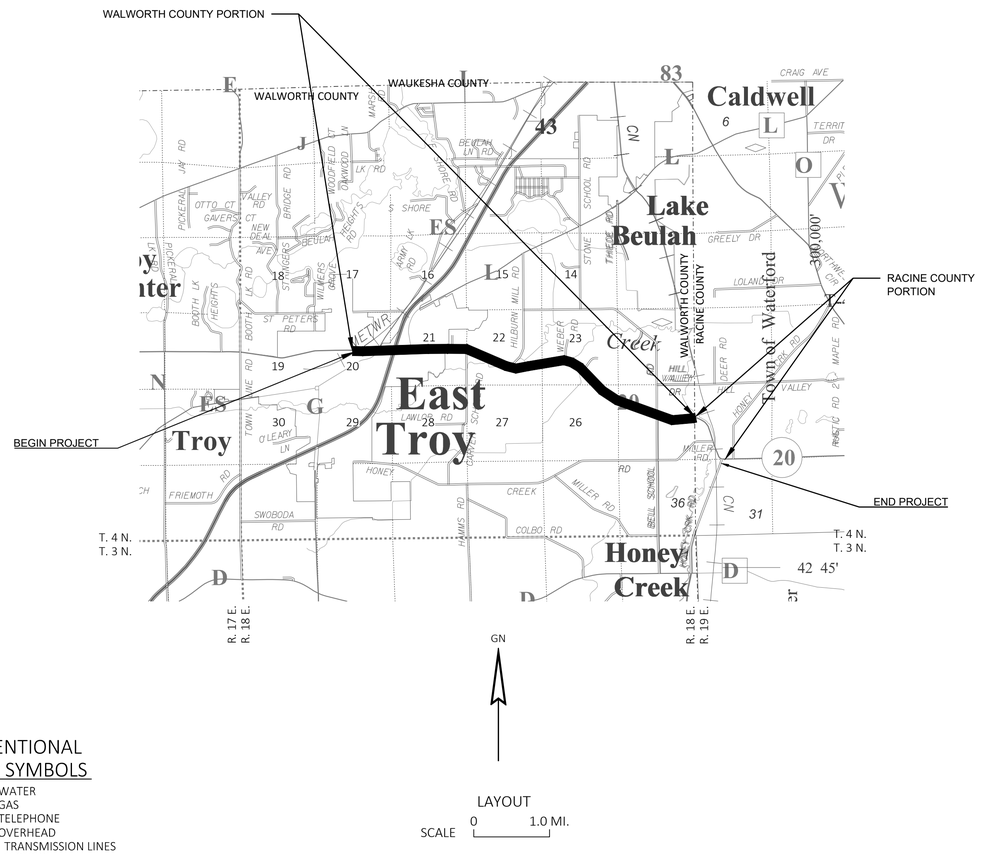
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

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



THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 2698-03-70

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WALWORTH COUNTY, NAD83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

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

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG STH 20 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT T015-2(18)

PROJECT NUMBER	2698-03-21	4.00
SHEET	2 OF 2	
AMENDMENT NO:		

TRANSPORTATION PROJECT PLAT NO: 2698-03-21 - 4.01

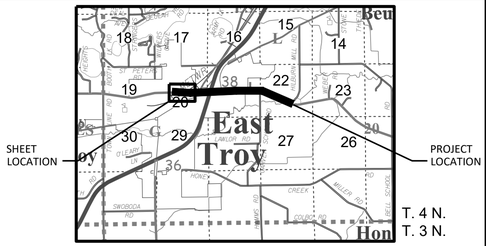
THAT PART OF LOT 5 OF CRYSTAL ACRES, LOT 1 AND LOT 2 OF CSM 4055 IN AND INCLUDING THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4, AND THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 AND THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4, ALL LOCATED IN SECTION 20, TOWNSHIP 4 NORTH, RANGE 18 EAST, VILLAGE OF EAST TROY, WALWORTH COUNTY, WISCONSIN

RELOCATION ORDER STH 20, EAST TROY - THOMAS DR TO HONEY CREEK RD WALWORTH COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

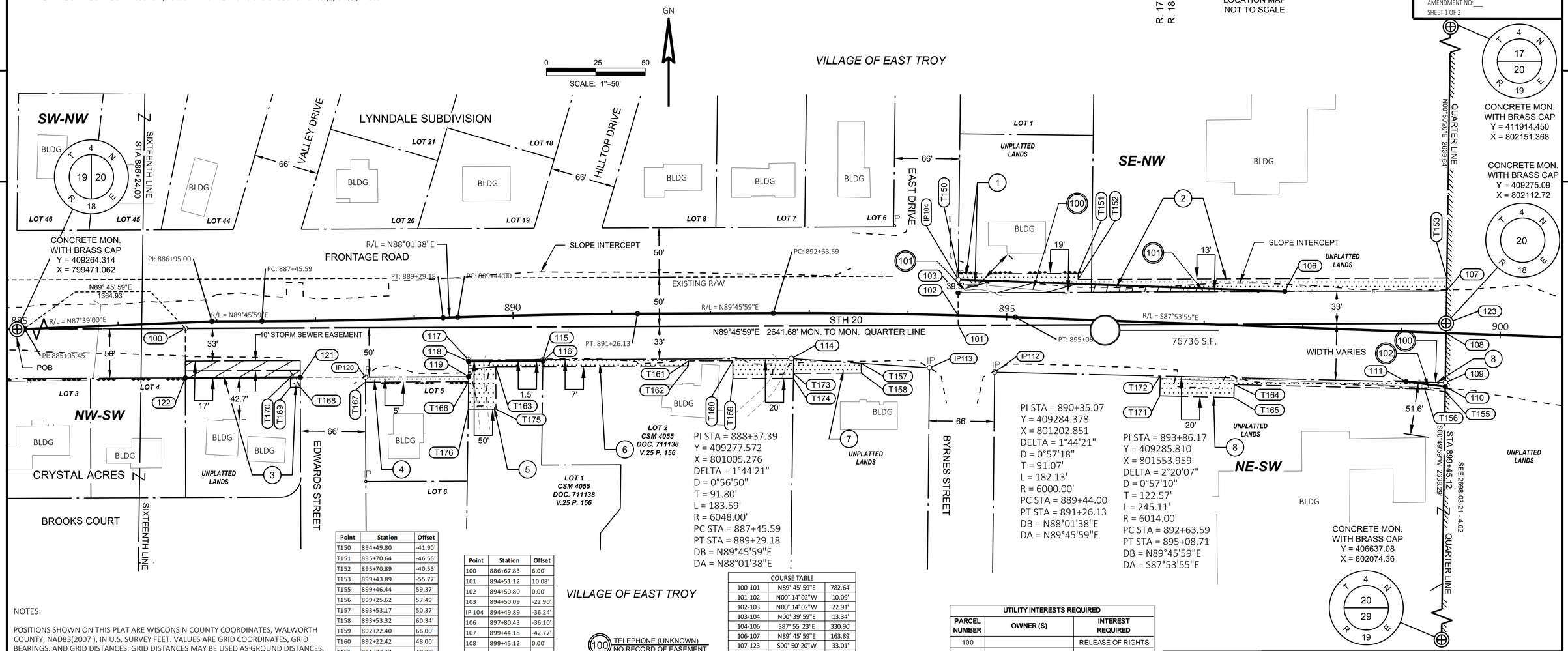
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTEREST TO DOT					
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W SQ FT REQUIRED			PLE SQ FT	TLE SQ FT
			NEW	EXISTING	TOTAL		
1	DANIEL J. DAVIES	FEE/TLE	1,433		1,433		1,050
2	EAST TROY BIBLE CHURCH	FEE/TLE	773		773		3,905
3	CHRISTOPHER HUND AND MARIE JILOT	FEE/TLE	1,979		1,979		100
4	VINCENT INGENITO AND KIRSTEN WEAVER	TLE					522
5	GARY M KUSE	FEE/TLE	113		113		1,605
6	RUSSEL L. AND SARA E. JACOBS	TLE					2,349
7	JOHN F. RHODE JR.	TLE					850
8	ST PAUL'S EVANGELICAL LUTHERAN CHURCH OF EAST TROY	FEE/TLE	82		82		2,936



LOCATION MAP
NOT TO SCALE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2698-03-21-4.01
AMENDMENT NO:___
SHEET 1 OF 2



Point	Station	Offset
T150	894+49.80	-41.90'
T151	895+70.64	-46.56'
T152	895+70.89	-40.56'
T153	899+43.89	-55.77'
T155	899+46.44	59.37'
T156	899+25.62	57.49'
T157	893+53.17	50.37'
T158	893+53.32	60.34'
T159	892+22.40	66.00'
T160	892+22.42	48.00'
T161	891+77.42	48.00'
T162	891+77.42	53.00'
T163	889+81.17	51.26'
T164	897+32.71	60.12'
T165	897+32.89	73.12'
T166	889+52.89	65.53'
T167	888+49.21	62.90'
T168	887+83.86	67.12'
T169	887+73.97	67.07'
T170	887+74.02	57.07'
T171	896+57.90	74.15'
T172	896+57.62	54.15'
T173	892+83.98	60.97'
T174	892+83.90	65.97'
T175	889+80.11	94.25'
T176	889+51.57	93.32'

Point	Station	Offset
100	886+67.83	6.00'
101	894+51.12	10.08'
102	894+50.80	0.00'
103	894+50.09	-22.90'
IP 104	894+49.89	-36.24'
106	897+80.43	-36.10'
107	899+44.18	-42.77'
108	899+45.12	0.00'
109	899+46.24	50.21'
110	899+46.33	54.34'
111	899+06.53	50.75'
IP 112	894+89.64	56.41'
IP 113	894+22.97	53.84'
114	892+81.74	45.97'
115	890+29.48	45.23'
116	890+29.43	46.73'
117	889+53.61	43.54'
118	889+53.57	45.04'
119	889+53.12	60.53'
IP 120	888+49.30	57.90'
121	887+83.92	57.12'
122	886+65.78	55.96'
123	899+44.91	-9.78'

VILLAGE OF EAST TROY

100 TELEPHONE (UNKNOWN)
NO RECORD OF EASEMENT
PARCEL 1
BLANKET EASEMENT
V.128 P.732 DOC.687495

101 WE ENERGIES GAS
NO RECORD OF EASEMENT
PARCEL 1, 2

102 WE ENERGIES ELECTRIC
NO RECORD OF EASEMENT
PARCEL 8
BLANKET EASEMENT
V.378 P.589 DOC.404785
PARCELS 4, 5, 6

103 VILLAGE OF EAST TROY
10' STORM SEWER EASEMENT
V.268 P.144 DOC.63568
PARCEL 3

COURSE TABLE		
100-101	N89° 45' 59"E	782.64'
101-102	N00° 14' 02"W	10.09'
102-103	N00° 14' 02"W	22.91'
103-104	N00° 39' 59"E	13.34'
104-106	S87° 55' 23"E	330.90'
106-107	N89° 45' 59"E	163.89'
107-123	S00° 50' 20"W	33.01'
123-108	S00° 49' 59"W	9.78'
108-109	S00° 49' 59"W	50.22'
109-110	S00° 49' 59"W	4.13'
110-111	N82° 44' 55"W	39.95'
111-IP112	N88° 40' 49"W	416.76'
IP112-IP113	N86° 10' 24"W	66.11'
IP113-114	N86° 10' 21"W	140.28'
114-115	S89° 45' 54"W	251.39'
115-116	S00° 46' 45"W	1.50'
116-118	S89° 45' 59"W	75.30'
118-119	S00° 14' 40"E	15.50'
119-IP120	S89° 45' 59"W	104.54'
IP120-121	S89° 45' 59"W	66.00'
121-122	S89° 45' 59"W	116.42'
122-100	N00° 00' 00"W	50.00'

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED
100		RELEASE OF RIGHTS
101	WE ENERGIES GAS	RELEASE OF RIGHTS
102	WE ENERGIES ELECTRIC	RELEASE OF RIGHTS
103	VILLAGE OF EAST TROY	RELEASE OF RIGHTS

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
STH 20	CRYSTAL ACRES SUBDIVISION	133', 150'	2002
STH 20	LYNNDALE SUBDIVISION	133'	1994
STH 20	CSM 4055	133'	2007
STH 20	DEEDS V. 669 P. 260 DOC. 608799	VARIES	1968
STH 20	PROJECT T015-2(18)	VARIES	1970
VALLEY DRIVE	LYNNDALE SUBDIVISION	66'	1994
HILLTOP DRIVE	LYNNDALE SUBDIVISION	66'	1994
EAST DRIVE	LYNNDALE SUBDIVISION	66'	1994
EDWARDS STREET	CRYSTAL ACRES SUBDIVISION	66'	2002
BYRNES STREET	DEEDS V.23 P. 359	66'	

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WALWORTH COUNTY, NAD83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

All TLE'S ARE FOR SLOPES AND GRADING UNLESS OTHERWISE STATED IN THE DETAIL.

EXISTING ACCESS CONTROL ALONG STH 20 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT T015-2(18) AND CRYSTAL ACRES SUBDIVISION.

FOR ADDITIONAL INFORMATION REFER TO
THE TITLE SHEET, RECORDED AS SHEET 2 OF 2

I,NATHAN A. VAUGHN PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: XX/XX/XX

PRINT NAME: NATHAN A. VAUGHN

REGISTRATION NUMBER: S-2986

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DEPARTMENT OF TRANSPORTATION

SIGNATURE: _____ DATE: XX/XX/XX

PRINT NAME: ROBERT L. DUFFECK

AYRES

FILE NAME : V:\SURVEY\WK\76-0126.00 STH 20 EAST TROY 2698-03-00 RW PLAT\CADD\C3D\SHEETSPLAN\26980300_4.01.DWG
APPRAISAL PLAT DATE : 06-26-2021
PLOT DATE : 11/2/2021 4:21 PM
PLOT BY : LARSON, BENJAMIN
PLOT NAME :
PLOT SCALE : 1" = 100'_XREF
CONSTRUCTION. ID 2698-03-70
2698-03-21 - 4.01

TRANSPORTATION PROJECT PLAT NO: 2698-03-21 - 4.02

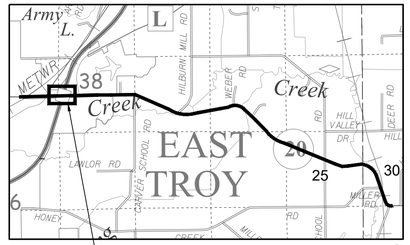
THAT PART OF LOT 1 OF STERLING OAKS SUBDIVISION LOCATED IN AND INCLUDING THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 , LOT 1 OF CSM 3057, LOT 2 AND LOT 3 OF CSM 4464, LOT 1 OF CSM 2726 IN AND INCLUDING THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4, UNIT 1 OF LAKE COUNTRY CONDOMINIUMS IN AND INCLUDING THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4, AND THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, ALL IN SECTION 20, TOWNSHIP 12 NORTH, RANGE 19 EAST, VILLAGE OF EAST TROY, WALWORTH COUNTY, WISCONSIN.

RELOCATION ORDER STH 20, EAST TROY - THOMAS DRIVE TO HONEY CREEK ROAD WALWORTH COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTEREST TO DOT				
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W SQ FT REQUIRED			PLE SQ FT	TLE SQ FT
			NEW	EXISTING	TOTAL		
2	EAST TROY BIBLE CHURCH	TLE					1,876
8	ST PAUL'S EVANGELICAL LUTHERAN CHURCH OF EAST TROY	FEE/TLE	1,811		1811		3,283
9	RUSSEL D AND CATHERINE A WINDLE	FEE/TLE	88		88		3,216
10	FRIENDS OF EAST TROY RAILROAD, INC.	TLE					644
11	BOWER LLC	TLE					28
15	PAMPERIN RENTALS III, LLC	FEE/TLE	417		417		700
16	SRVR LLC	FEE/TLE	2,570		2570		3,946
17	RADEMANN DEVELOPMENT, LLC	TLE					3,239
18	RHODE'S TOWING & REPAIR, INC	TLE					2,782



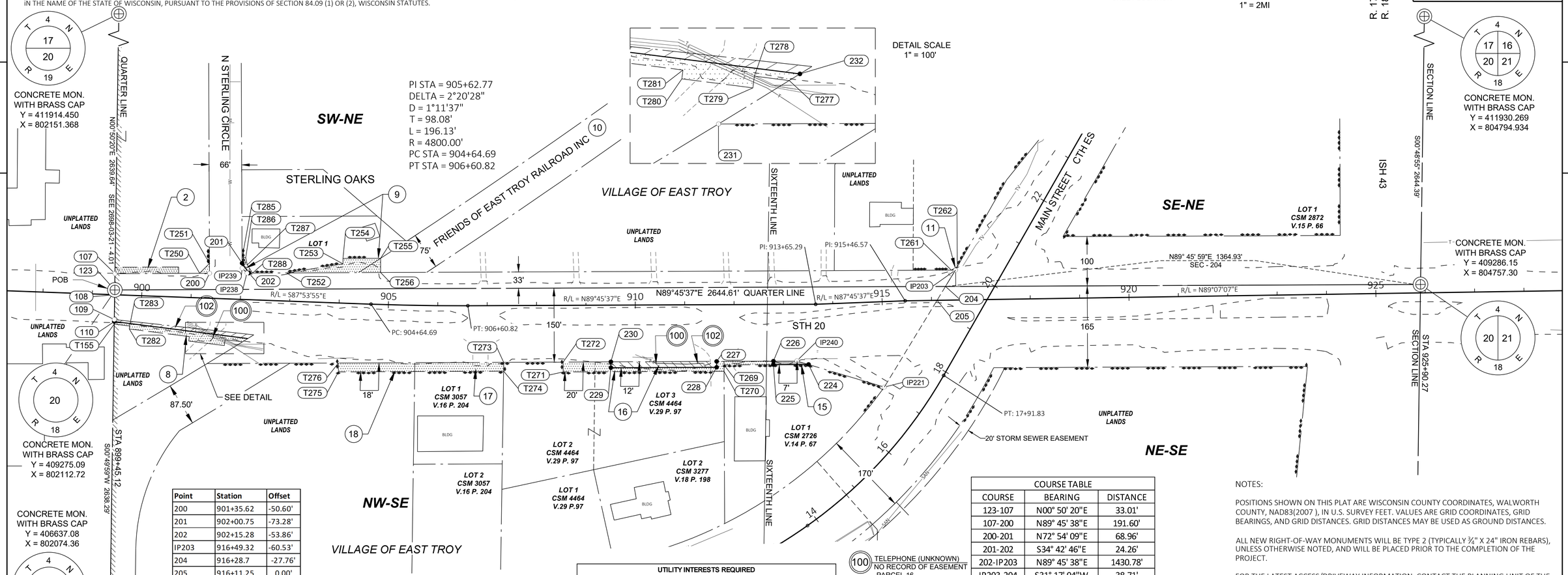
SHEET LOCATION

LOCATION MAP
1" = 2MI

R. 17 E.
R. 18 E.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2698-03-21-4.02
AMENDMENT NO:___

4



Point	Station	Offset
200	901+35.62	-50.60'
201	902+00.75	-73.28'
202	902+15.28	-53.86'
IP203	916+49.32	-60.53'
204	916+28.7	-27.76'
205	916+11.25	0.00'
IP221	914+97.55	173.14'
224	913+50.29	121.99'
225	912+79.11	121.99'
226	912+79.11	114.99'
227	911+64.13	114.99'
228	911+64.13	126.99'
229	909+50.00	126.99'
230	909+50.00	114.99'
231	901+37.39	132.48'
232	902+17.92	78.82'
233	899+46.33	54.34'
234	899+46.24	50.21'
235	899+45.12	0.00'
236	899+44.91	-9.78'
237	899+44.18	-42.77'

Point	Station	Offset
T250	901+15.64	-49.78'
T251	901+34.80	-70.58'
T252	902+91.36	-56.97'
T253	904+04.99	-79.45'
T254	904+04.54	-90.45'
T255	904+80.96	-93.53'
T256	904+82.05	-64.72'
T261	916+41.27	-60.62'
T262	916+53.37	-67.43'
T269	911+79.13	121.99'
T270	911+79.13	134.99'
T271	908+53.34	134.99'
T272	908+53.34	114.99'
T273	907+33.03	115.19'
T274	907+32.69	132.99'

Point	Station	Offset
T275	904+03.94	139.60'
T276	904+03.20	121.61'
T277	902+07.37	85.90'
T278	901+71.96	82.70'
T279	901+70.88	94.66'
T280	900+98.63	88.14'
T281	900+99.43	79.18'
T282	899+77.29	68.17'
T283	899+77.83	62.20'
T155	899+46.44	59.37'
T285	902+00.29	-84.50'
T286	902+07.77	-84.80'
T287	902+11.35	-70.42'
T288	902+22.61	-54.16'

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED
100		RELEASE OF RIGHTS
101	WE ENERGIES GAS	RELEASE OF RIGHTS
102	WE ENERGIES ELECTRIC	RELEASE OF RIGHTS

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
STH 20	CSM 3057	166.5'	1998
STH 20	CSM 4464	183'	
STH 20	STERLING OAKS SUBDIVISION	VARIES	2000
STH 20	CSM 2872	265'	1998
STH 20	PROJECT T015-2(18)	VARIES	1970
CTH ES	CSM 2872	170', 185'	1998
CTH ES	CSM 2726	170'	1996
CTH ES	CSM 3277	170'	2000
CTH ES	CSM 4464	170'	
CTH ES	LAKE COUNTRY CONDOMINIUM	N/A	1999
I-43	PROJECT T015-2(18)	VARIES	1970

(100) TELEPHONE (UNKNOWN)
NO RECORD OF EASEMENT
PARCEL 16
BLANKET EASEMENT
V.130 P.341 DOC.688466
PARCEL 8
BLANKET EASEMENT
V.130 P.341 DOC.688466
PARCEL 18

(101) WE ENERGIES GAS
NO RECORD OF EASEMENT
PARCEL 1, 2

(102) WE ENERGIES ELECTRIC
NO RECORD OF EASEMENT
PARCEL 8
BLANKET EASEMENT
V.260 P.216 DOC.337847
PARCEL 15
BLANKET EASEMENT
V.489 P.33 DOC.475062
PARCEL 15
BLANKET EASEMENT
V.248 P.638 DOC 322857
PARCEL 15
BLANKET EASEMENT
V.489 P.33 DOC.475062
PARCEL 15

COURSE TABLE		
COURSE	BEARING	DISTANCE
123-107	N00° 50' 20"E	33.01'
107-200	N89° 45' 38"E	191.60'
200-201	N72° 54' 09"E	68.96'
201-202	S34° 42' 46"E	24.26'
202-IP203	N89° 45' 38"E	1430.78'
IP203-204	S31° 17' 04"W	38.71'
204-205	S31° 17' 04"W	32.80'
205-IP221	S31° 17' 06"W	205.83'
221-224	N73° 23' 01"W	160.10'
224-225	S89° 45' 38"W	71.17'
225-226	N00° 14' 23"W	7.00'
226-227	S89° 45' 38"W	114.98'
227-228	S00° 14' 23"E	12.00'
228-229	S89° 45' 38"W	214.13'
229-230	N00° 14' 23"W	12.00'
230-231	S89° 45' 38"W	817.70'
231-232	N58° 25' 27"E	96.78'
232-110	N82° 44' 55"W	272.70'
110-109	N00° 49' 59"E	4.13'
109-108	N00° 49' 59"E	50.22'
108-123	N00° 49' 59"E	9.78'

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WALWORTH COUNTY, NAD83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

All TLE'S ARE FOR SLOPES AND GRADING UNLESS OTHERWISE STATED IN THE DETAIL.

EXISTING ACCESS CONTROL ALONG STH 20 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT T015-2(18)

I,NATHAN A. VAUGHN PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: XX/XX/XX

PRINT NAME: NATHAN A. VAUGHN

REGISTRATION NUMBER: S-2986

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DEPARTMENT OF TRANSPORTATION

SIGNATURE: _____ DATE: XX/XX/XX

PRINT NAME: ROBERT L. DUFFECK

AYRES

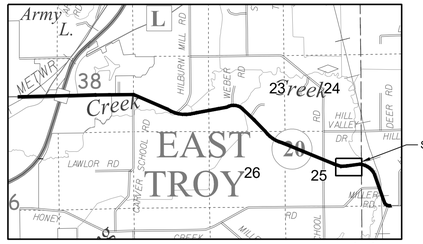
TRANSPORTATION PROJECT PLAT NO: 2698-03-21 - 4.03

THAT PART OF PARCEL 2 OF CSM 1477 LOCATED IN AND INCLUDING THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 25, TOWNSHIP 4 NORTH, RANGE 18 EAST, VILLAGE OF EAST TROY, WALWORTH COUNTY, WISCONSIN.

RELOCATION ORDER STH 20, EAST TROY - THOMAS DR TO HONEY CREEK RD WALWORTH COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



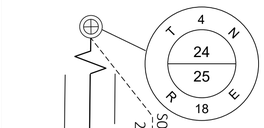
LOCATION MAP
1" = 2MI

SHEET LOCATION

R. 17 E.
R. 18 E.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTEREST TO DOT					
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED			PLE ACRES	TLE ACRES
			NEW	EXISTING	TOTAL		
19	KEVIN E & JANICE H KNUTH	PLE/TLE				2.451	9.402
20	GARRETT J & CHERL A OREILLY	PLE/TLE				2.700	820

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2698-03-21-4.03
AMENDMENT NO:___



Curve Table				
Curve #	Length	Radius	LCB	CHORD
C1	72.10'	637.78'	N86° 25' 55"E	72.07'
C2	140.32'	490.23'	S88° 22' 26"E	139.85'
C3	131.97'	424.23'	N87° 39' 44"W	131.44'
C4	80.73'	703.78'	S86° 28' 47"W	80.69'

COURSE TABLE		
300-301	N00° 41' 10"E	33.00'
301-302	N00° 41' 10"E	33.00'
302-303	SEE C1 IN CURVE TABLE	
303-304	N83° 11' 36"E	149.39'
304-305	N06° 48' 24"W	12.00'
305-306	N83° 11' 36"E	150.00'
306-307	S06° 48' 24"E	12.00'
307-308	N83° 11' 36"E	505.48'
308-309	N83° 25' 33"E	159.66'
309-310	N06° 34' 27"W	13.00'
310-311	N83° 25' 33"E	50.00'
311-312	S07° 10' 14"E	13.00'
312-313	N83° 25' 33"E	107.08'
313-314	SEE C2 IN CURVE TABLE	
314-315	S00° 46' 23"W	33.47'
315-316	S00° 46' 23"W	33.51'
316-317	SEE C3 IN CURVE TABLE	
317-318	S83° 25' 33"W	316.74'
318-319	S83° 11' 36"W	500.34'
319-320	S06° 48' 24"E	20.00'
320-321	S83° 11' 36"W	135.00'
321-322	N06° 48' 24"W	20.00'
322-323	S83° 11' 36"W	169.40'
323-300	SEE C4 IN CURVE TABLE	

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WALWORTH COUNTY, NAD83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

All TLE'S ARE FOR SLOPES AND GRADING UNLESS OTHERWISE STATED IN THE DETAIL.

102 WE ENERGIES ELECTRIC
12' OVERHEAD ELECTRIC EASEMENT
V.644 P.4447 DOC.343759
PARCEL 19
12' UNDERGROUND ELECTRIC EASEMENT
V.644 P.4445 DOC343758
PARCEL 19

GN

0 50 100

SCALE: 1"=100'

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED
102	WE ENERGIES ELECTRIC	RELEASE OF RIGHTS

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
STH 20	CSM 1477	66'	1986
STH 20	PLAT OF SURVEY 418-502	66'	1986

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NO. _____

I, NATHAN A. VAUGHN PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: XX/XX/XX

PRINT NAME: NATHAN A. VAUGHN

REGISTRATION NUMBER: S-2986

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DEPARTMENT OF TRANSPORTATION

SIGNATURE: _____ DATE: XX/XX/XX

PRINT NAME: ROBERT L. DUFFECK

AYRES

FILE NAME : V:\SURVEY\WK\76-0126.00 STH 20 EAST TROY 2698-03-00 RW PLAT\CADD\C3D\SHEETSPLAN\26980300_4.03.DWG
APPRAISAL PLAT DATE : 6-26-2021

PLOT DATE : 11/2/2021 4:20 PM PLOT BY : LARSON, BENJAMIN PLOT NAME : PLOT SCALE : 1 IN:200 FT

CONSTRUCTION. ID 2698-03-70 2698-00-21 - 4.03

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 2698-03-21
EAST TROY - RACINE
EAST COUNTY LINE TO HONEY CREEK ROAD
STH 20
RACINE COUNTY

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
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
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)

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

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

CONVENTIONAL ABBREVIATIONS

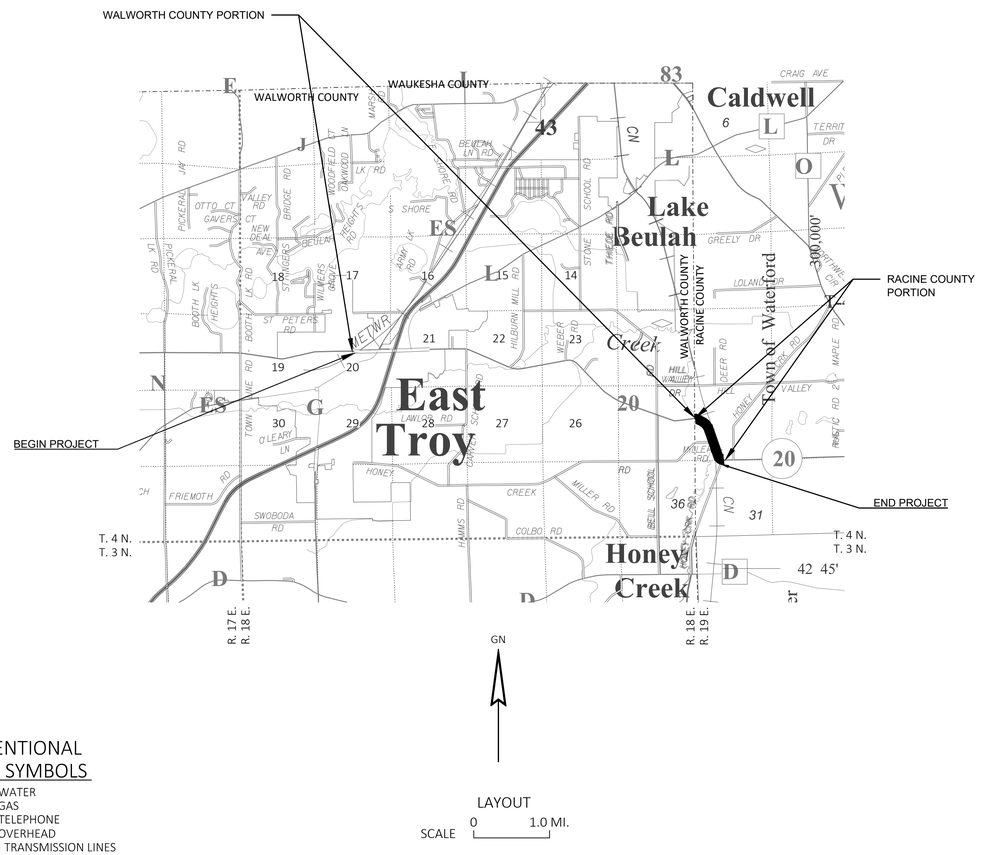
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

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



THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 2698-03-70

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

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

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG STH 20 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT

PROJECT NUMBER	2698-03-21	4.04
SHEET	2 OF 2	
AMENDMENT NO:		

4

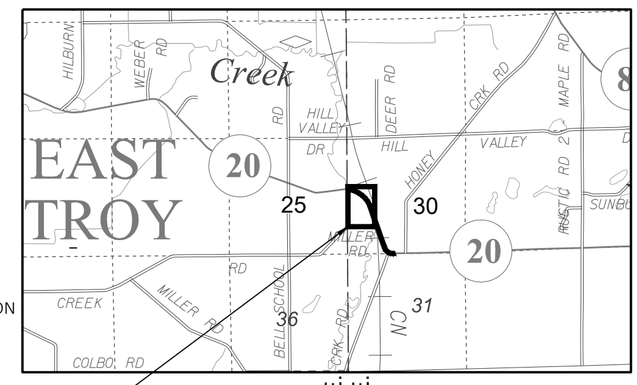
TRANSPORTATION PROJECT PLAT NO: 2698-03-21 - 4.05

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 4 NORTH, RANGE 18 EAST, TOWN OF WATERFORD, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER STH 20, WATERFORD - COUNTY LINE TO HONEY CREEK RD RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED iN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



LOCATION MAP
1" = 2MI

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2698-03-21-4.05
AMENDMENT NO:___
SHEET 1 OF 2

CONCRETE MON.
WITH BRASS CAP
Y = 207181.97
X = 499148.32

TOWN OF WATERFORD

Curve Table				
Curve #	Length	Radius	LCB	CHORD
C1	25.70'	490.23'	S78° 40' 19"E	25.69'
C2	49.99'	503.23'	S74° 19' 28"E	49.97'
C3	75.65'	490.23'	S67° 03' 27"E	75.58'
C4	52.00'	613.43'	N58° 09' 58"W	51.99'
C5	134.69'	457.23'	N71° 04' 31"W	134.20'

PI STA = 1154+61.73
Y = 404160.249
X = 825876.219
DELTA = 33°56'16"
D = 12°31'52"
T = 139.52'
L = 270.83'
R = 457.23'
PC STA = 1153+22.22
PT STA = 1155+93.05
DB = N83°25'33"E
DA = S62°38'11"E

PI STA = 1162+06.20
Y = 403809.697
X = 826542.256
DELTA = 31°35'14"
D = 10°17'49"
T = 157.39'
L = 306.76'
R = 556.43'
PC STA = 1160+48.81
PT STA = 1163+55.57
DB = S61°53'33"E
DA = S30°18'19"E

PI STA = 1166+67.78
Y = 403404.277
X = 826779.213
DELTA = 14°25'57"
D = 6°00'00"
T = 120.91'
L = 240.54'
R = 954.93'
PC STA = 1165+46.87
PT STA = 1167+87.41
DB = S30°18'19"E
DA = S15°52'22"E

COURSE	BEARING	DISTANCE
400-401	N00° 42' 54"E	33.45'
401-402	SEE C1 IN CURVE TABLE	
402-403	N12° 49' 46"E	13.00'
403-404	SEE C2 IN CURVE TABLE	
404-405	S18° 31' 18"W	13.00'
405-406	SEE C3 IN CURVE TABLE	
406-407	S62° 38' 11"E	186.96'
407-408	N27° 21' 49"E	7.00'
408-409	S62° 17' 08"E	50.10'
409-410	S28° 06' 27"W	7.00'
410-411	S61° 51' 19"E	232.59'
411-412	N29° 24' 20"E	24.00'
412-413	SEE C4 IN CURVE TABLE	
413-414	S34° 15' 45"W	24.00'
414-415	N86° 59' 29"W	69.79'
415-416	N61° 53' 33"W	242.61'
416-417	N62° 38' 11"W	213.16'
417-400	SEE C4 IN CURVE TABLE	

CONCRETE MON.
WITH BRASS CAP
Y = 204561.49
X = 499092.87

CONCRETE MON.
WITH BRASS CAP
Y = 204586.60
X = 501716.88

CONCRETE MON.
WITH BRASS CAP
Y = 201929.38
X = 499047.80

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
STH 20	3133-00-21	66', 93'	1996

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTEREST TO DOT					
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W SQ FT REQUIRED			PLE SQ FT	TLE SQ FT
			NEW	EXISTING	TOTAL		
21	JANICE H. AND KEVIN E. KNUTH	PLE/TLE		71,003		2,209	23,577

NOTES:

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

All TLE'S ARE FOR SLOPES AND GRADING UNLESS OTHERWISE STATED IN THE DETAIL.

GN

0 50 100

SCALE: 1"=100

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2

AYRES

I,NATHAN A. VAUGHN PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: XX/XX/XX

PRINT NAME: NATHAN A. VAUGHN

REGISTRATION NUMBER: S-2986

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DEPARTMENT OF TRANSPORTATION

SIGNATURE: _____ DATE: XX/XX/XX

PRINT NAME: ROBERT L. DUFFECK

2698-03-21 - 4.05

CONSTRUCTION ID 2698-03-70

PLOT SCALE : 1 IN:200 FT

PLOT NAME :

PLOT BY : Larson, Benjamin

PLOT DATE : 11/22/2021 12:07 PM

FILE NAME : V:\SURVEY\WK\76-0126.00 STH 20 EAST TROY 2698-03-00 R\W PLAT\CADD\C3D\SHEETSPLAN\26980300_4.05.DWG

PLOT DATE :

APPRAISAL PLAT DATE : 6-26-2021

4

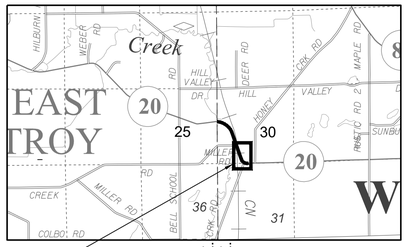
TRANSPORTATION PROJECT PLAT NO: 2698-03-21 - 4.06

THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 4 NORTH, RANGE 18 EAST, TOWN OF WATERFORD, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER STH 20, WATERFORD - EAST COUNTY LINE TO HONEY CREEK RD RACINE COUNTY

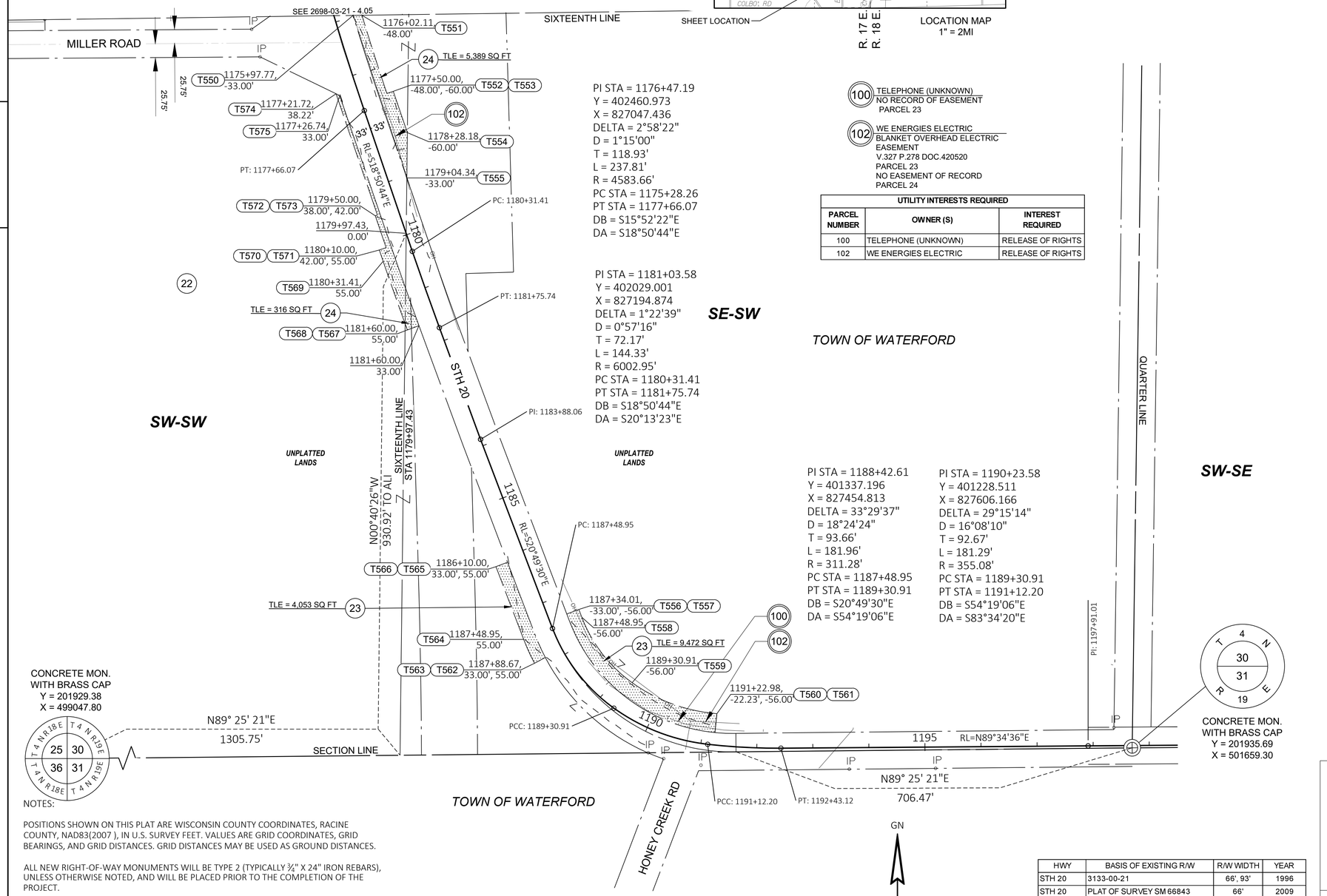
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTEREST TO DOT					
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	R/W SQ FT REQUIRED EXISTING	R/W SQ FT REQUIRED TOTAL	PLE SQ FT	TLE SQ FT
22	KD3 GRANTOR TRUST	TLE					4,678
23	JEROME E LEPAK	TLE					13,525
24	CANADIAN NATIONAL RAILROAD	TLE					5,705

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2698-03-21-4.06
AMENDMENT NO:___



PI STA = 1176+47.19
Y = 402460.973
X = 827047.436
DELTA = 2°58'22"
D = 1°15'00"
T = 118.93'
L = 237.81'
R = 4583.66'
PC STA = 1175+28.26
PT STA = 1177+66.07
DB = S15°52'12"E
DA = S18°50'44"E

PI STA = 1181+03.58
Y = 402029.001
X = 827194.874
DELTA = 1°22'39"
D = 0°57'16"
T = 72.17'
L = 144.33'
R = 6002.95'
PC STA = 1180+31.41
PT STA = 1181+75.74
DB = S18°50'44"E
DA = S20°13'23"E

PI STA = 1188+42.61
Y = 401337.196
X = 827454.813
DELTA = 33°29'37"
D = 18°24'24"
T = 93.66'
L = 181.96'
R = 311.28'
PC STA = 1187+48.95
PT STA = 1189+30.91
DB = S20°49'30"E
DA = S54°19'06"E

PI STA = 1190+23.58
Y = 401228.511
X = 827606.166
DELTA = 29°15'14"
D = 16°08'10"
T = 92.67'
L = 181.29'
R = 355.08'
PC STA = 1189+30.91
PT STA = 1191+12.20
DB = S54°19'06"E
DA = S83°34'20"E

100 TELEPHONE (UNKNOWN)
NO RECORD OF EASEMENT
PARCEL 23

102 WE ENERGIES ELECTRIC
BLANKET OVERHEAD ELECTRIC EASEMENT
V.327 P.278 DOC.420520
PARCEL 23
NO EASEMENT OF RECORD
PARCEL 24

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED
100	TELEPHONE (UNKNOWN)	RELEASE OF RIGHTS
102	WE ENERGIES ELECTRIC	RELEASE OF RIGHTS

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

All TLE'S ARE FOR SLOPES AND GRADING UNLESS OTHERWISE STATED IN THE DETAIL.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
STH 20	3133-00-21	66', 93'	1996
STH 20	PLAT OF SURVEY SM 66843	66'	2009
STH 20	PLAT OF SURVEY SM 31922	66'	1994
STH 20	PLAT OF SURVEY SM 26333	66'	1991

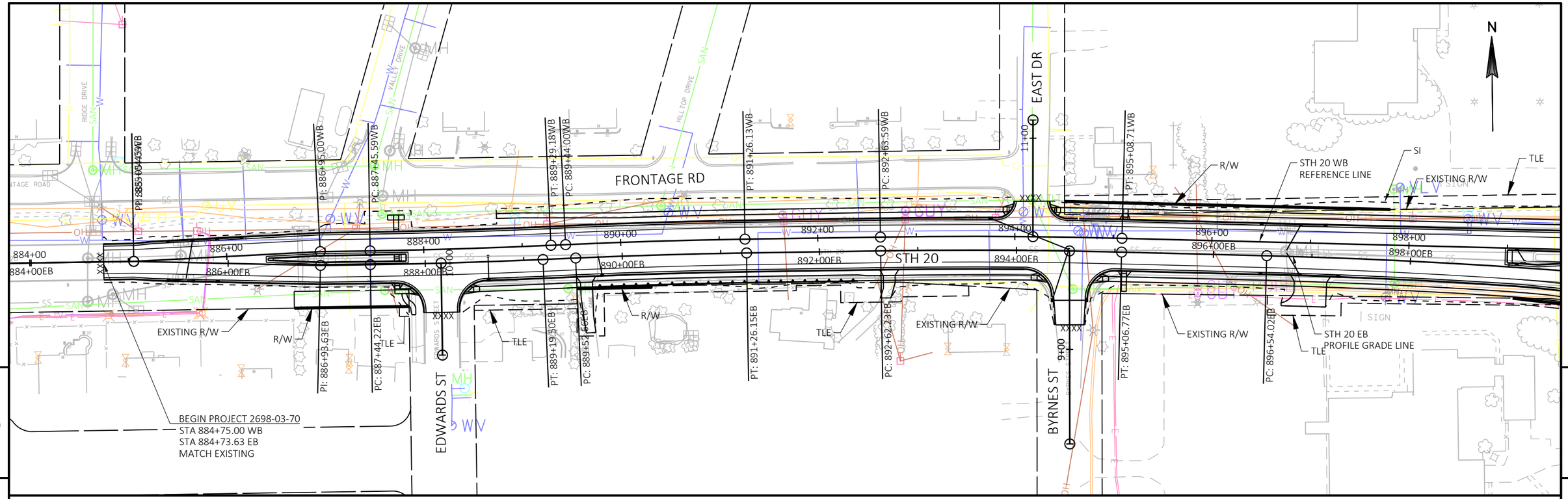
AYRES

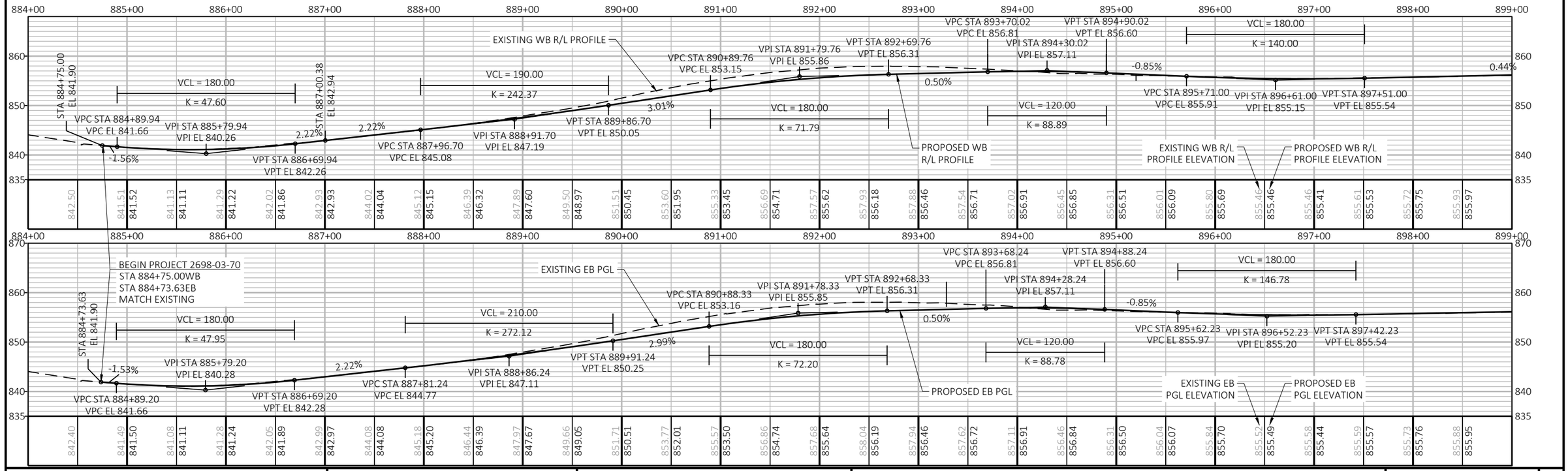
I,NATHAN A. VAUGHN PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: XX/XX/XX
PRINT NAME: NATHAN A. VAUGHN
REGISTRATION NUMBER: S-2986

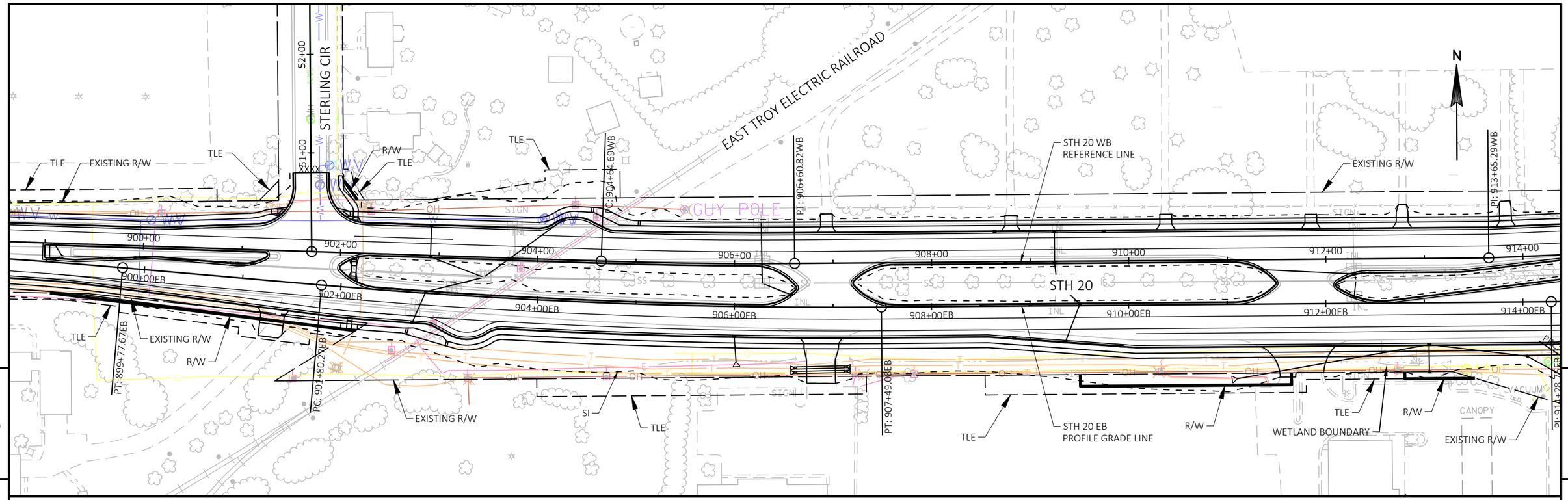
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DEPARTMENT OF TRANSPORTATION

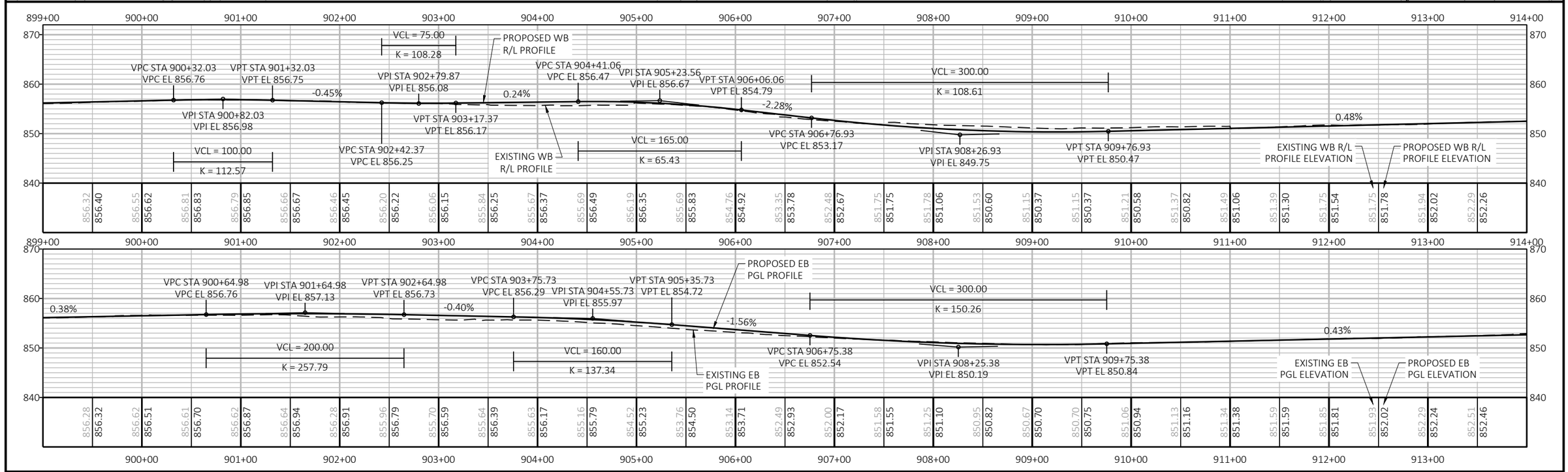
SIGNATURE: _____ DATE: XX/XX/XX
PRINT NAME: Robert L. Duffeck





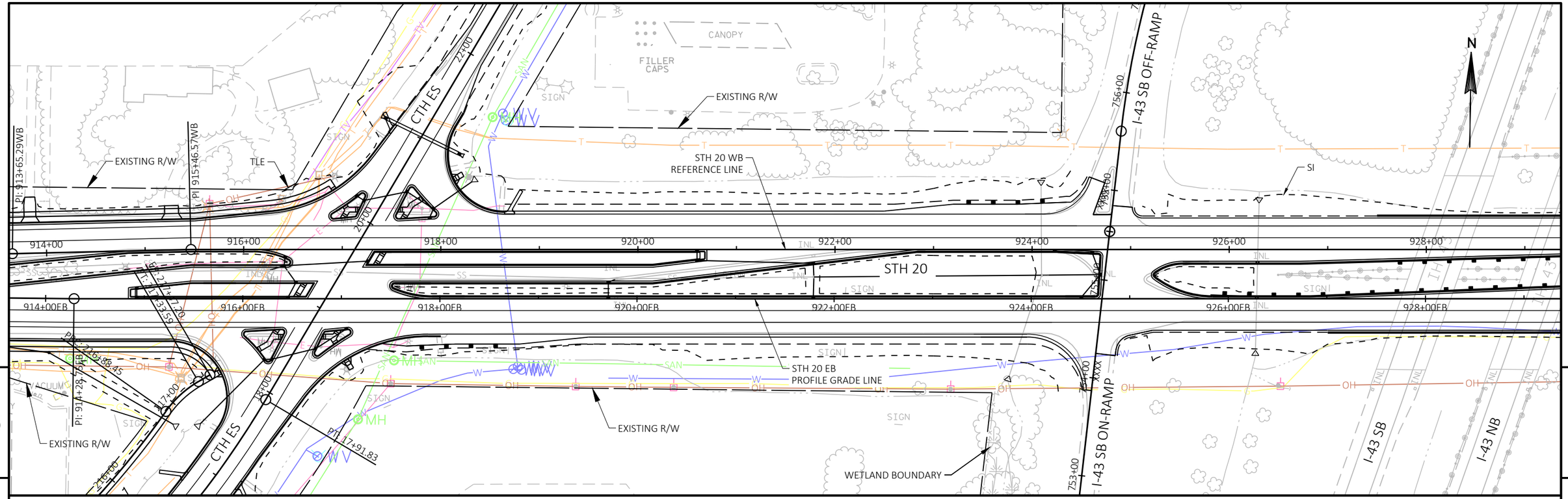
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: STH 20	SHEET E

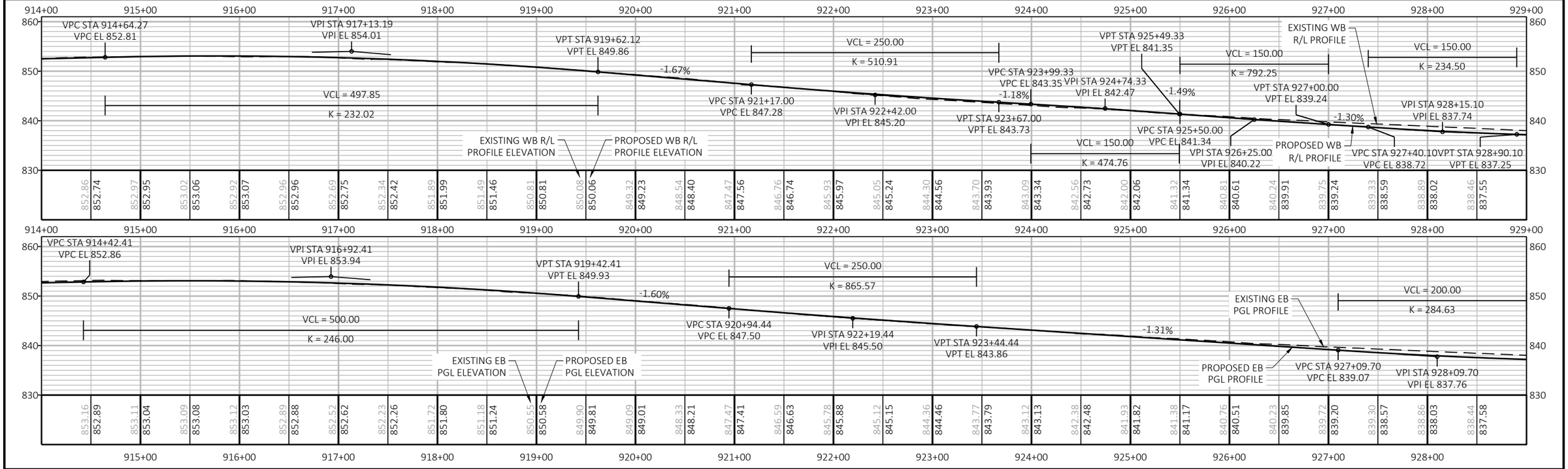




PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: STH 20	SHEET E

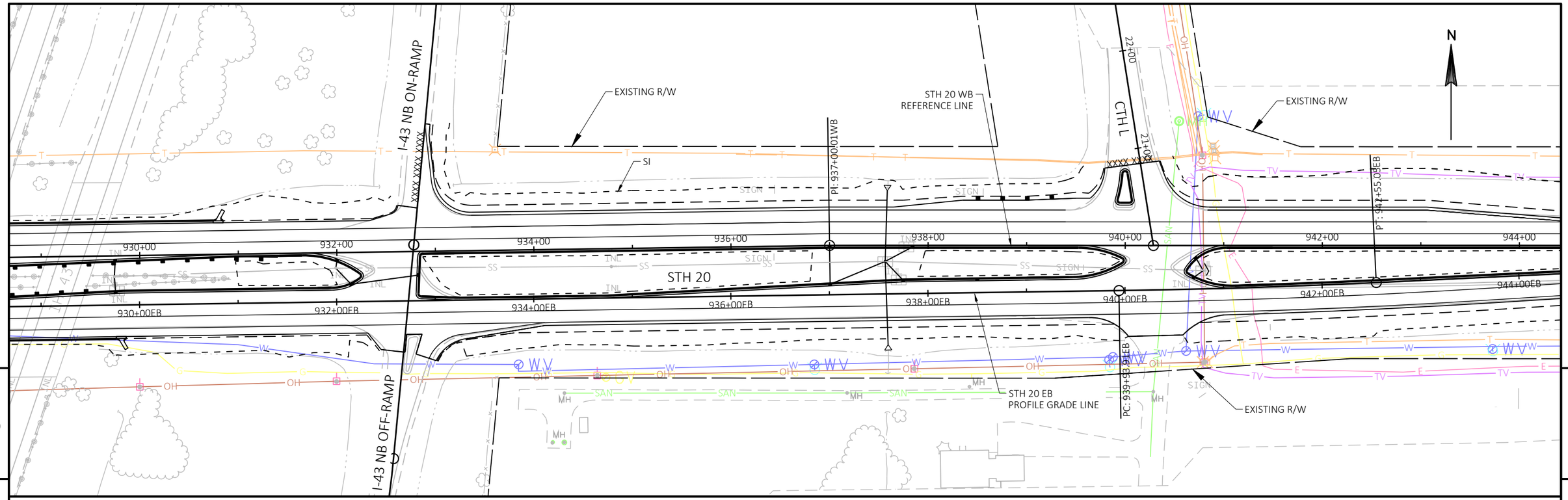
PRE_194

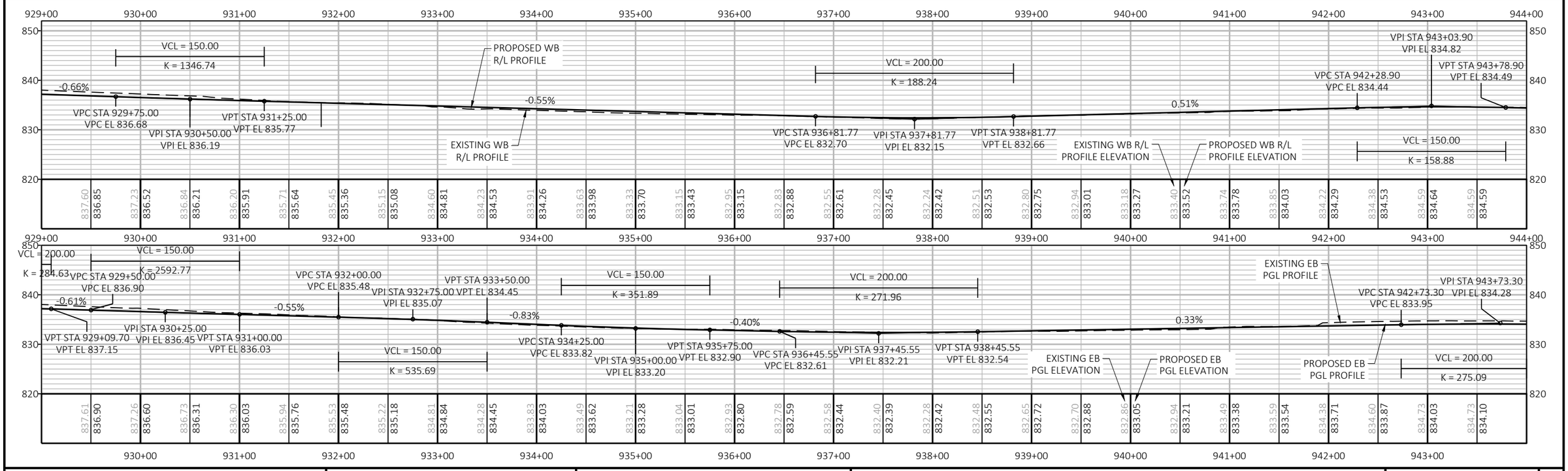




PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: STH 20	SHEET E

PRE_195





PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: STH 20	SHEET E

N

EXISTING R/W

SI

PI: 950+41.34EB

PI: 952+28.58WB

STH 20 WB
REFERENCE LINE

944+00 946+00 948+00 950+00 952+00 954+00 956+00 958+00

944+00EB 946+00EB 948+00EB 950+00EB 952+00EB

STH 20

STH 20 EB
PROFILE GRADE LINE

END STH 20 EB PGL
STA 950+41.34 EB
MATCH INTO STH 20 WB R/L
STA 950+40.10

EXISTING R/W

MATCH STH 20 WB R/L
STA 954+30

5

5

944+00 945+00 946+00 947+00 948+00 949+00 950+00 951+00 952+00 953+00 954+00 955+00 956+00 957+00 958+00 959+00

840 830 820 810

-0.43%

VPI STA 952+56.88
VPI EL 830.69

VPC STA 951+81.88
VPC EL 831.01

VPT STA 953+31.88
VPT EL 830.17

-0.69%

-0.69%

PROPOSED WB
R/L PROFILE

VCL = 150.00

K = 587.53

STA 954+29.79
EL 829.50

STA 954+39.13
EL 829.43

EXISTING WB
R/L PROFILE

EXISTING WB R/L
PROFILE ELEVATION

PROPOSED WB R/L
PROFILE ELEVATION

834.23 834.19 833.95 833.97 833.70 833.75 833.41 833.54 833.23 833.32 832.92 833.10 832.75 832.89 832.61 832.67 832.49 832.45 832.20 832.24 831.93 832.02 831.73 831.80 831.57 831.59 831.42 831.37 831.20 831.15 831.09 830.93 830.86 830.68 830.61 830.38 830.17 830.05 829.71 829.70 829.31 828.86 828.28 827.66 826.98 826.25 825.47 824.67 823.74

VPT STA 944+73.30
VPT EL 833.88

-0.40%

-0.65%

PROPOSED EB
PGL PROFILE

STA 950+41.34
EL 831.63

STA 950+82.58
EL 831.37

EXISTING EB
PGL PROFILE

VCL = 200.00

K = 275.09

EXISTING EB
PGL ELEVATION

PROPOSED EB
PGL ELEVATION

834.52 833.97 834.17 833.78 833.95 833.58 833.59 833.38 833.37 833.18 833.15 832.99 833.12 832.79 833.23 832.59 833.01 832.39 832.77 832.19 832.37 831.99 831.75 831.80 831.58 831.58 831.42 831.20 831.10

944+00 945+00 946+00 947+00 948+00 949+00 950+00 951+00 952+00 953+00 954+00 955+00 956+00 957+00 958+00 959+00

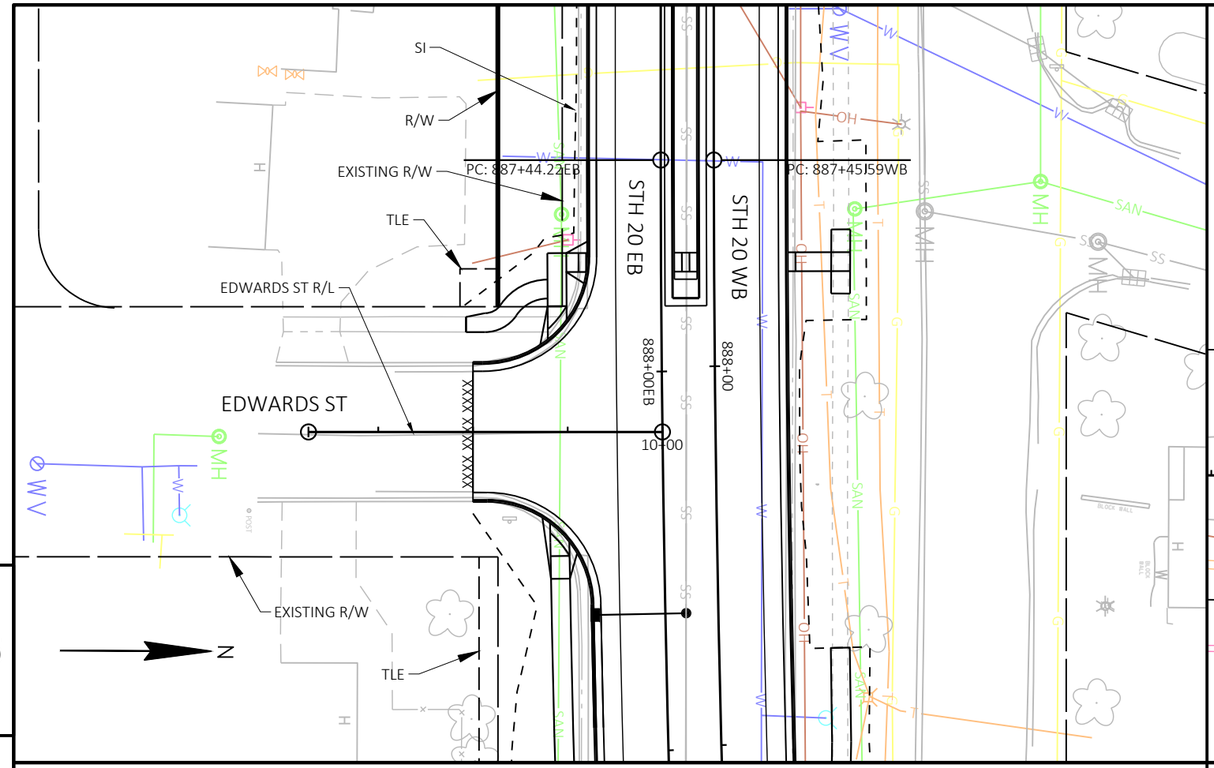
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: STH 20	SHEET E

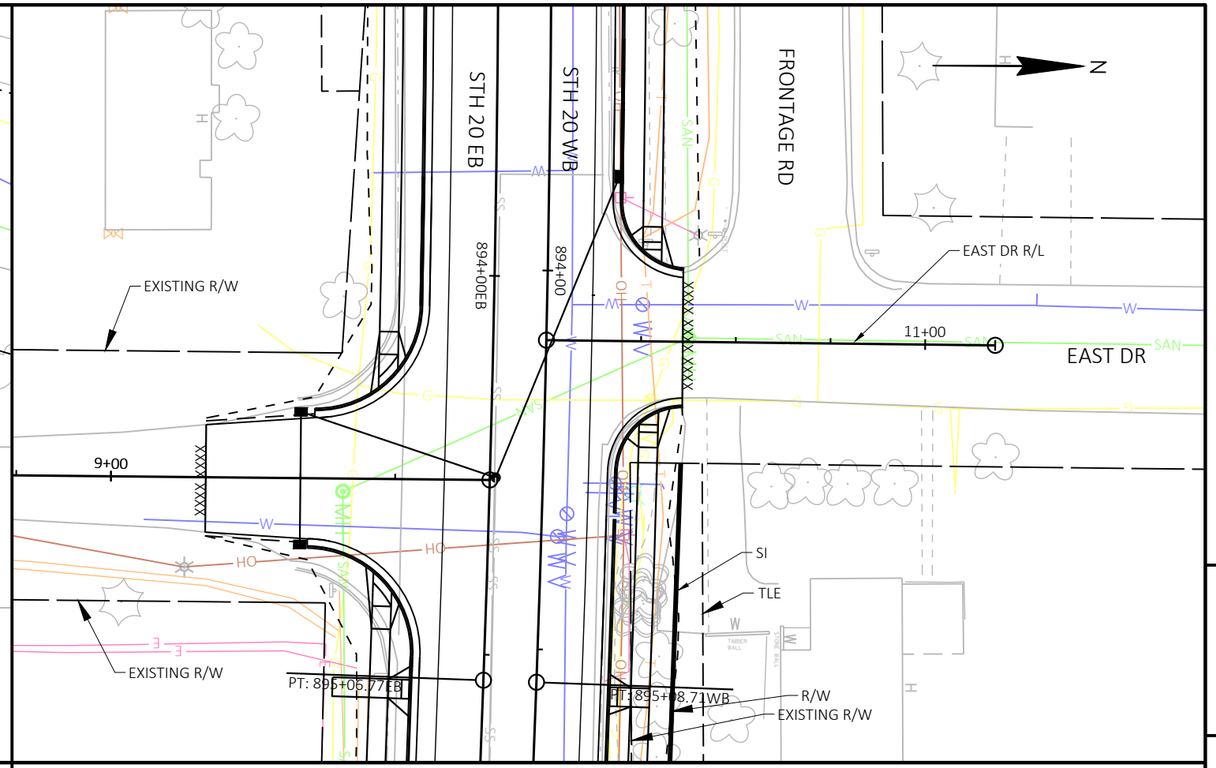
PRE_197

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050105-PP

PLOT DATE : 11/2/2021 8:36 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

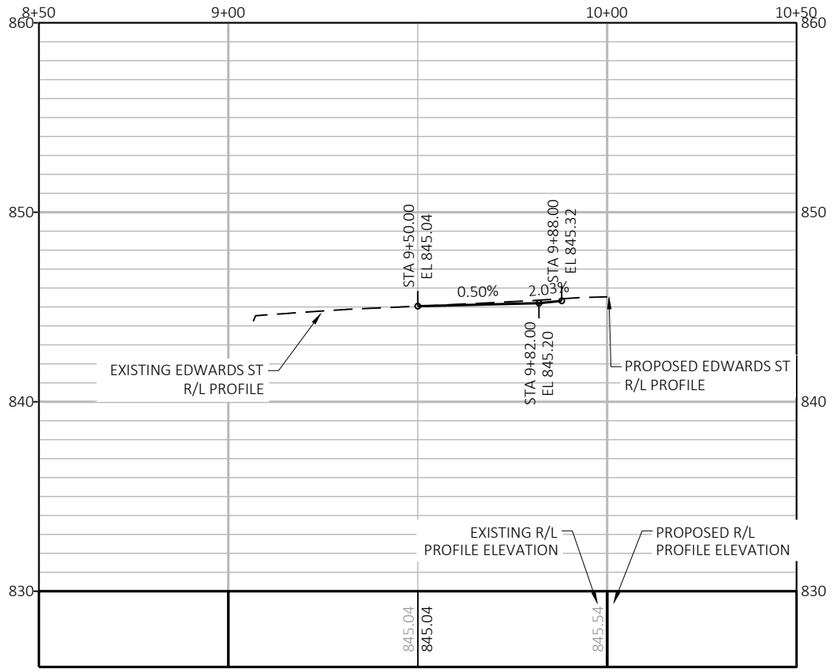
WISDOT/CADDS SHEET 44

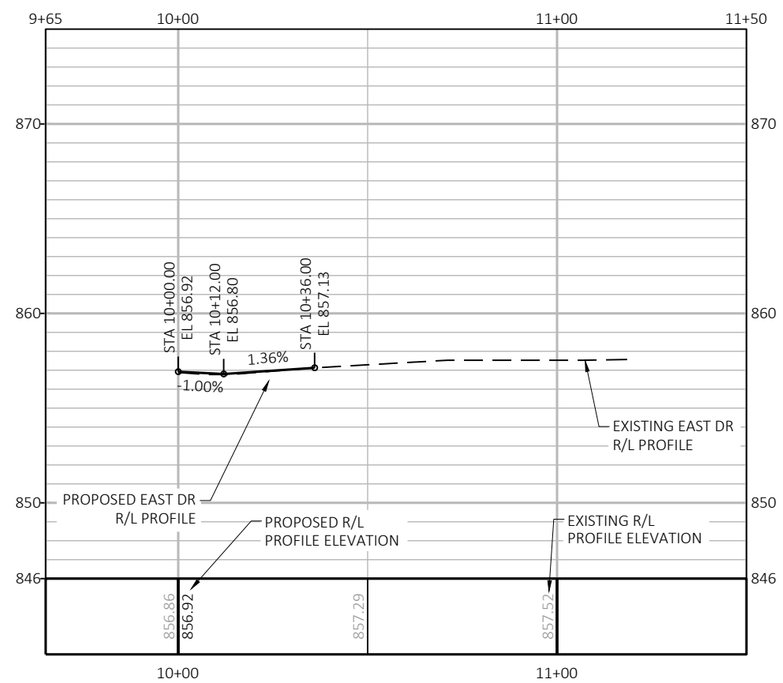




5

5



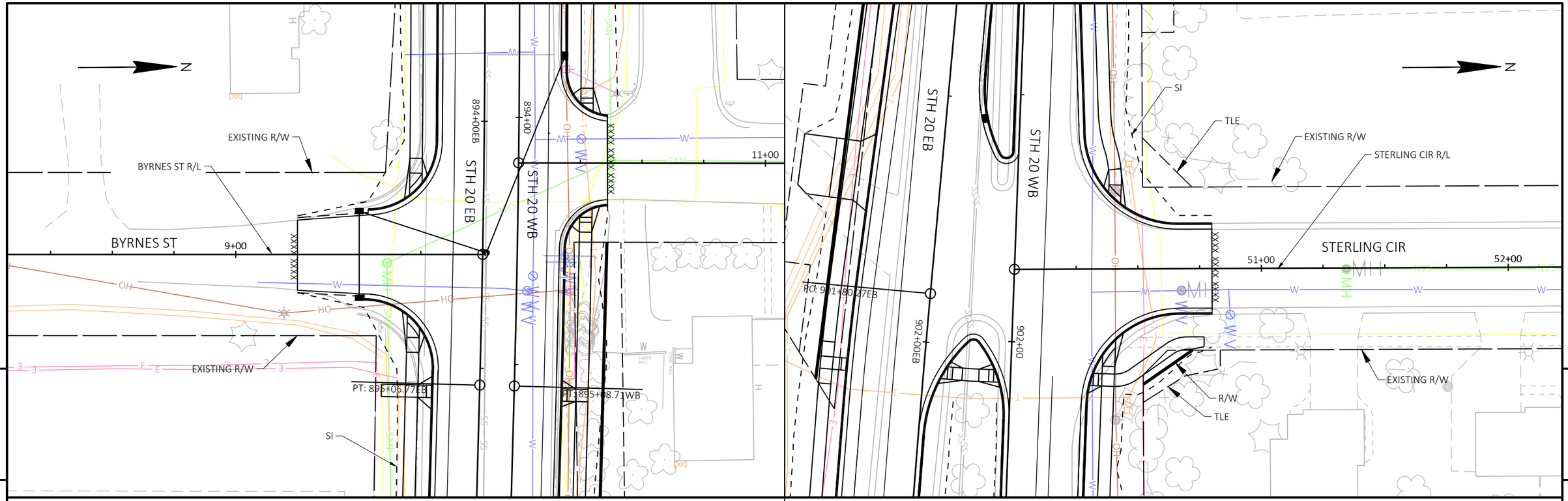


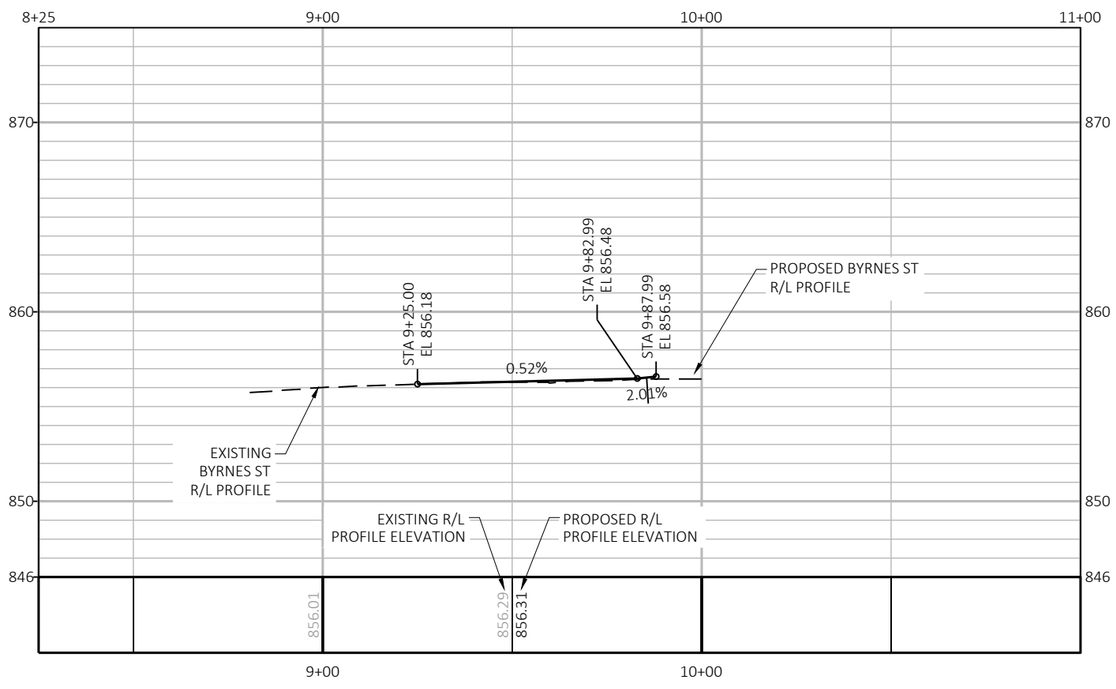
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: EDWARDS ST / EAST DR	SHEET E

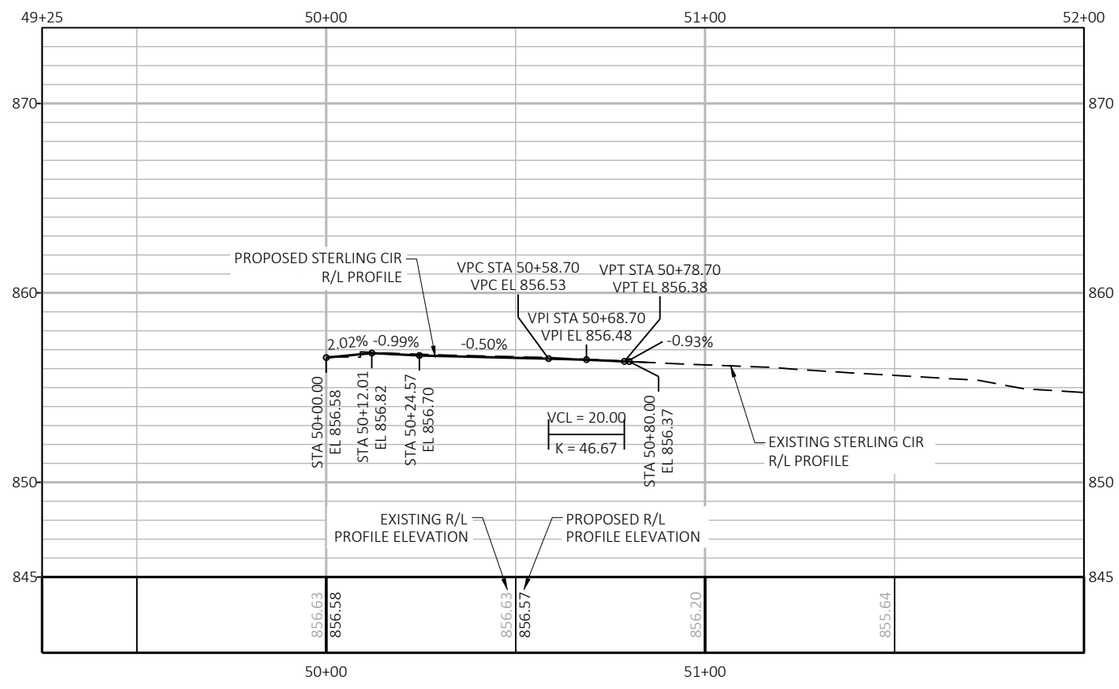
PRE_198

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050106-PP

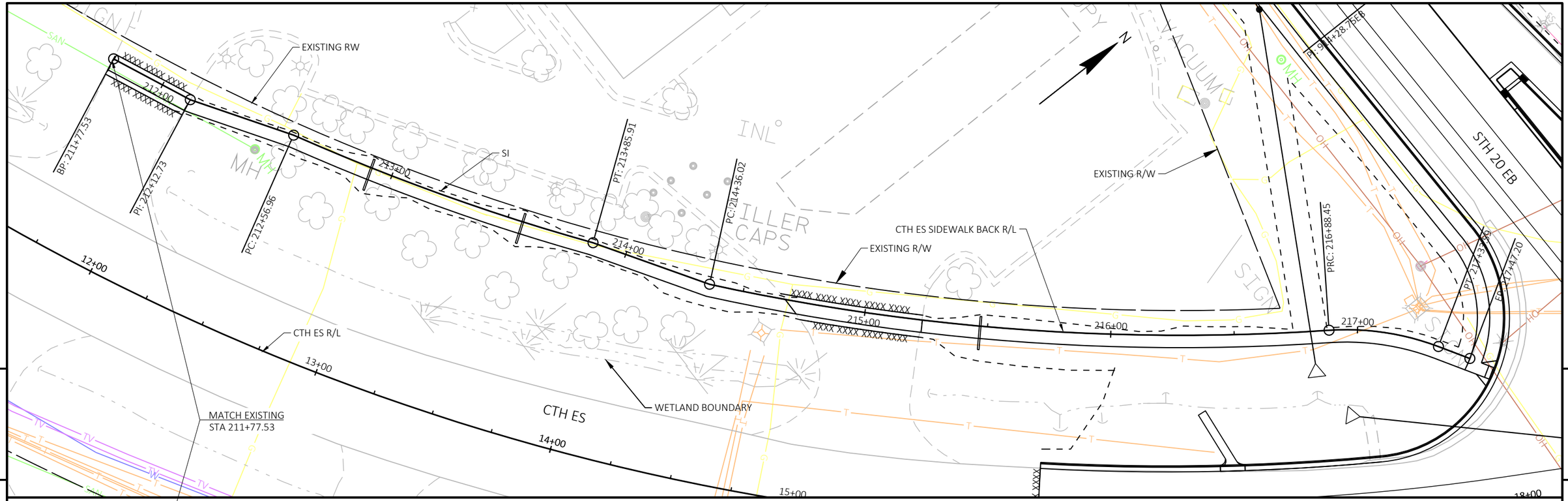
PLOT DATE : 11/2/2021 8:38 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : ##########







PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: BYRNES ST / STERLING CIR	SHEET E



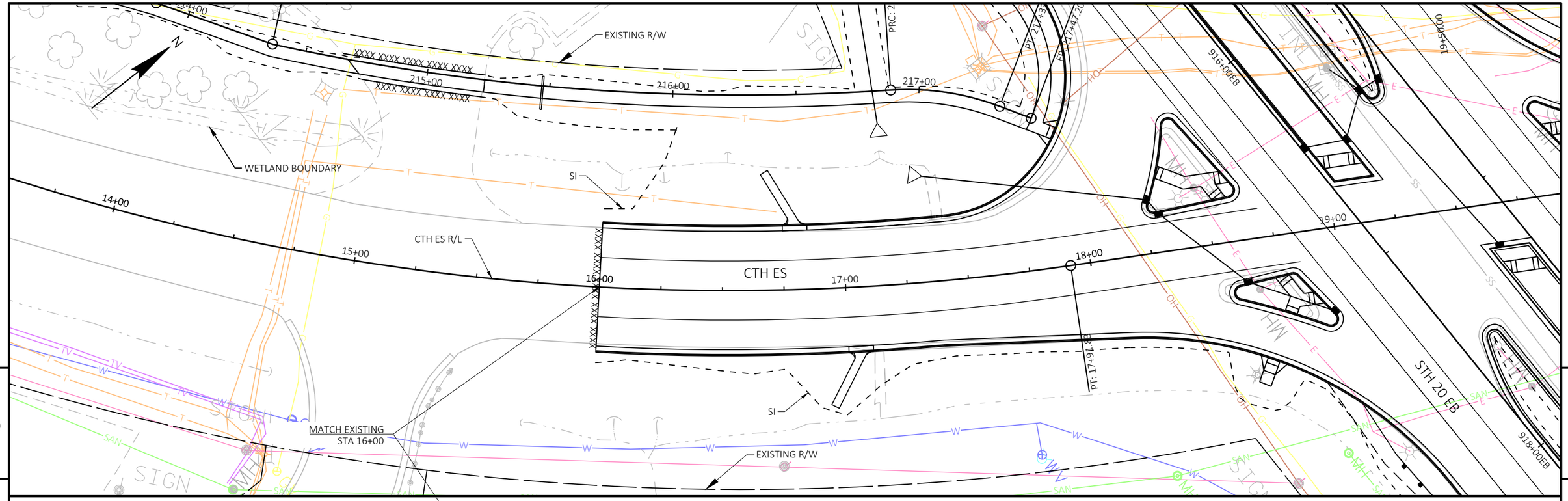
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: CTH ES SIDEWALK	SHEET E

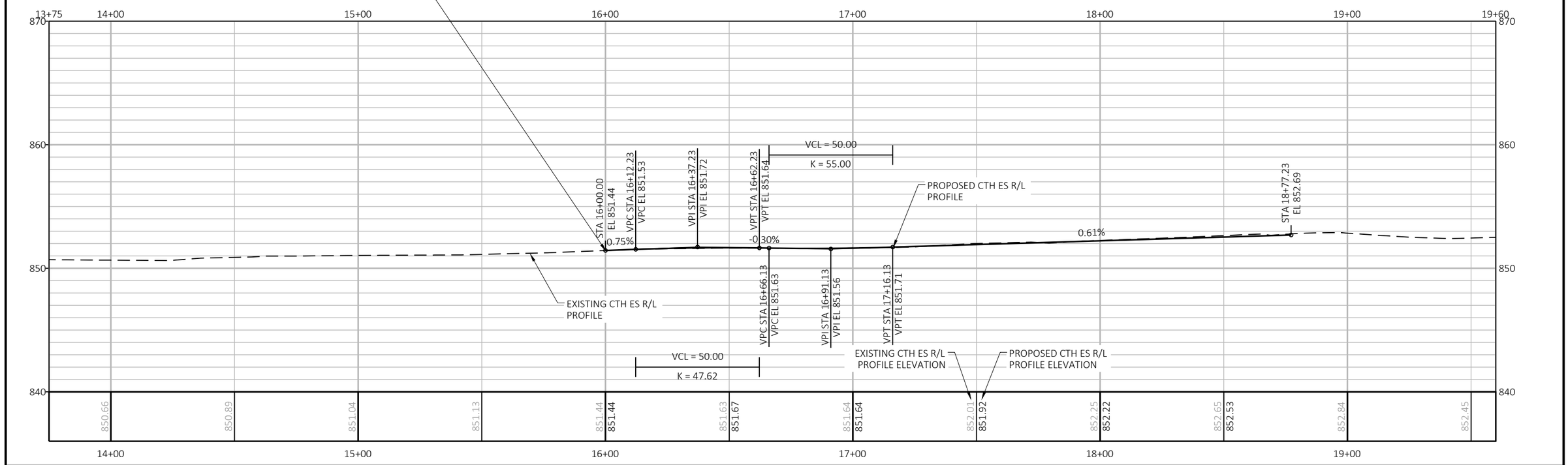
PRE_200

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050108-PP

PLOT DATE : 11/2/2021 8:41 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: CTH ES	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050109-PP

PLOT DATE : 11/2/2021 8:42 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_201

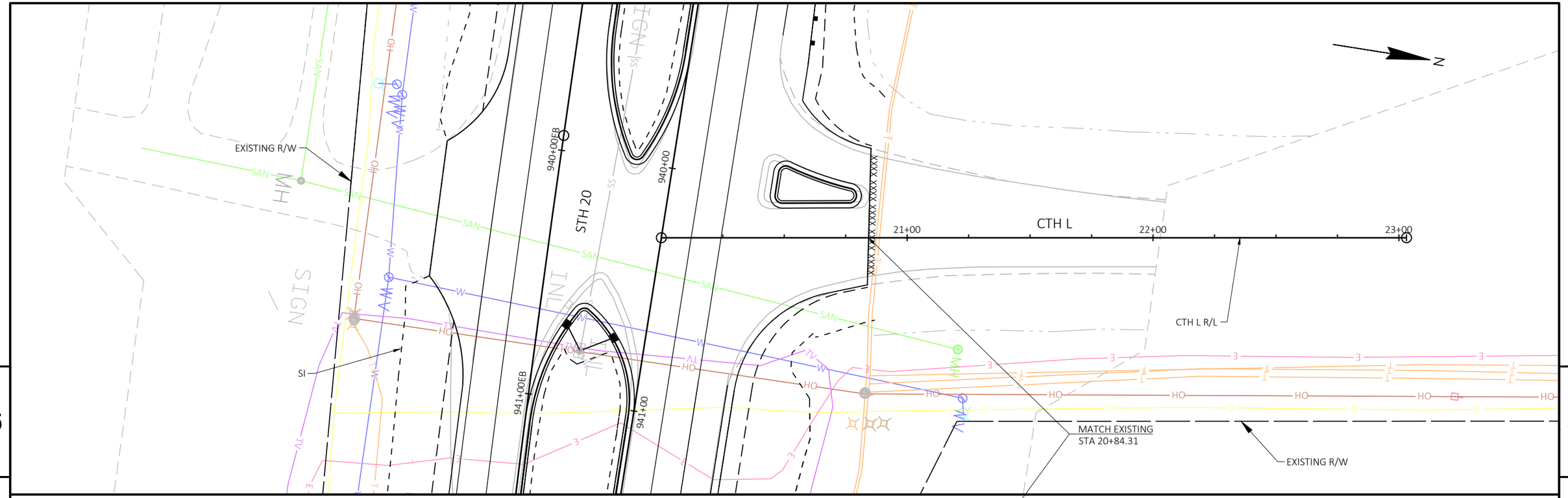
TLE
EXISTING R/W
CTH ES R/L
CTH ES
STH 20 WB
SI
XXXX
EXISTING R/W
MATCH EXISTING
STA 23+00
MH
20+00
21+00
22+00
23+00
24+00
25+00
19+50.00
918+00
5
5

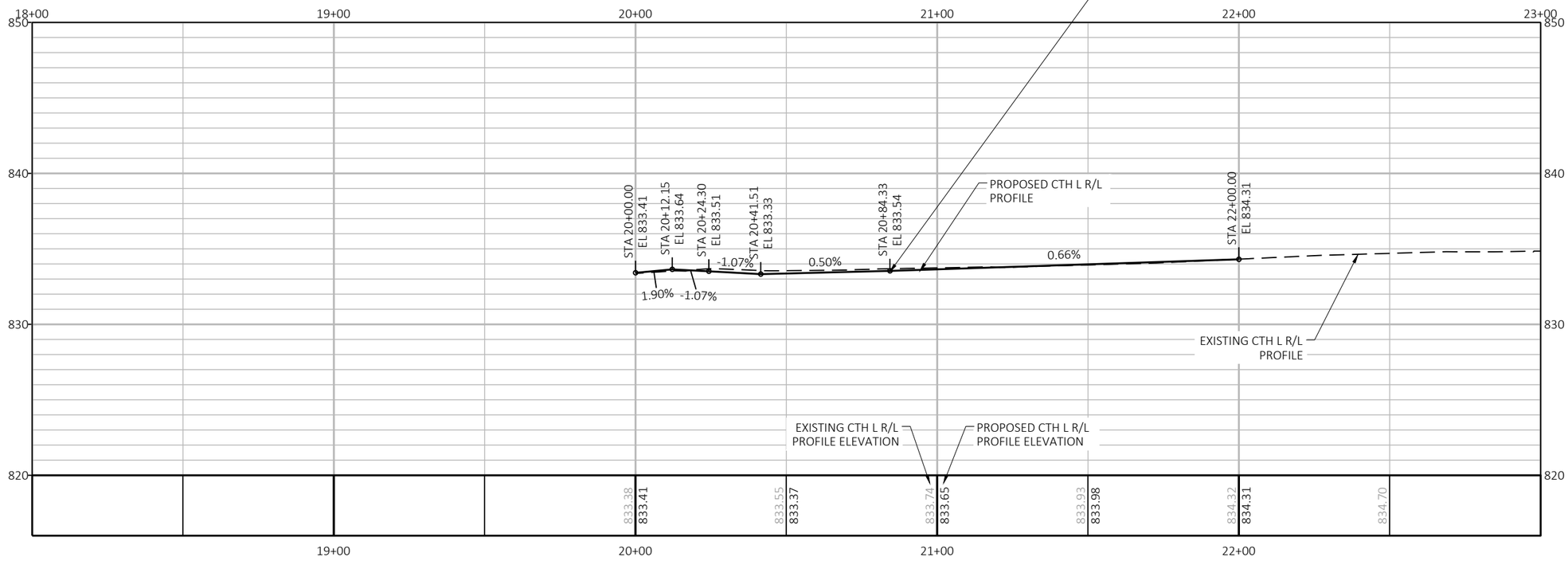
19+40
20+00
21+00
22+00
23+00
24+00
25+00
25+10
870
860
850
840
VCL = 200.00
K = 111.90
STA 20+02.76
EL 852.60
-0.76%
1.03%
PROPOSED CTH ES R/L
PROFILE
STA 23+00.00
EL 853.84
VPC STA 20+04.22
VPC EL 852.59
VPI STA 21+04.22
VPI EL 851.83
VPT STA 22+04.22
VPT EL 852.86
EXISTING CTH ES R/L
PROFILE
EXISTING R/L
PROFILE ELEVATION
PROPOSED R/L
PROFILE ELEVATION
852.45
852.56
852.30
852.34
852.27
852.27
852.35
852.43
852.54
852.81
853.29
853.33
853.84
853.84
854.27
854.69
855.19
855.57

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: CTH ES	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050110-PP
PLOT DATE : 11/2/2021 8:43 AM
PLOT BY : GUENETTE, JEFFREY J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

PRE_202





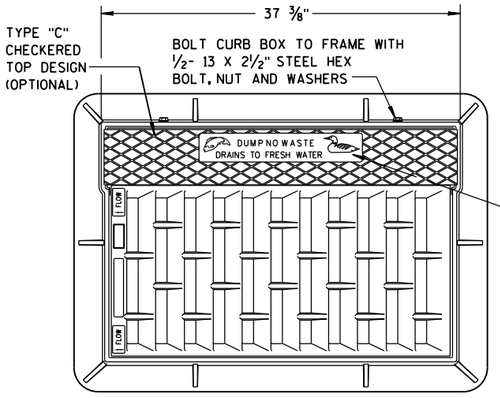
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	PLAN AND PROFILE: CTH L	SHEET E

PRE_203

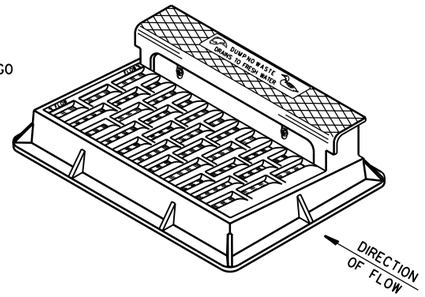
FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050111-PP

PLOT DATE : 11/2/2021 8:44 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

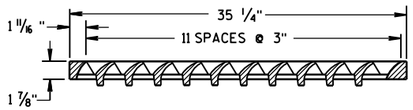
WISDOT/CADDS SHEET 44

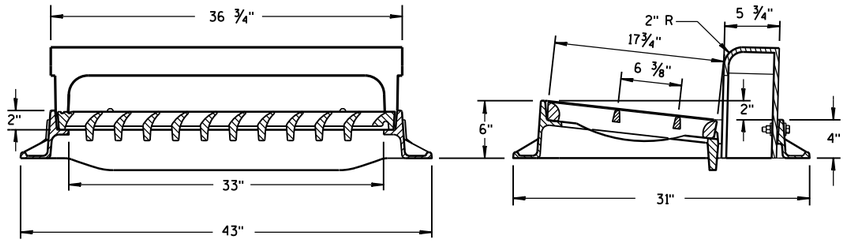


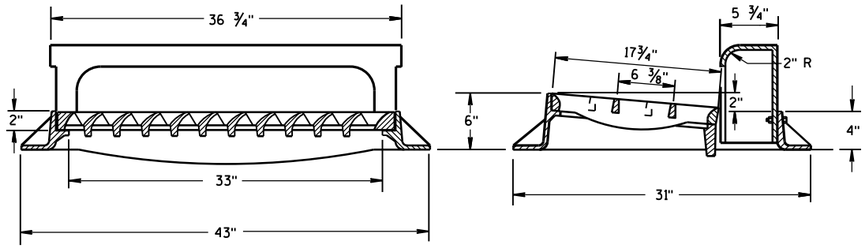
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

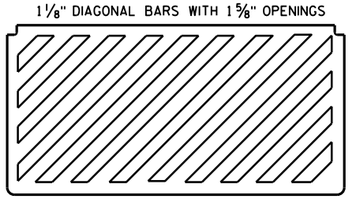






TYPE "H"

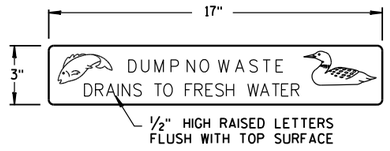
NOTE: EITHER CASTING IS ACCEPTABLE



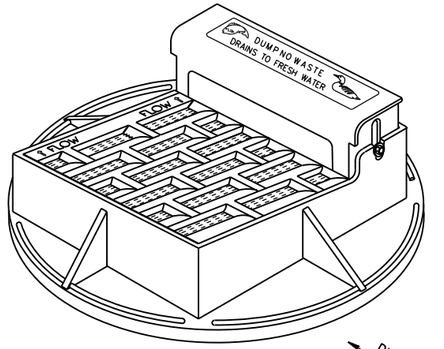
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

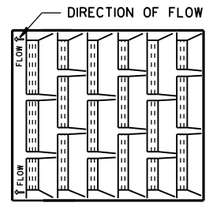
NOTE:
GRATE IS REVERSIBLE.

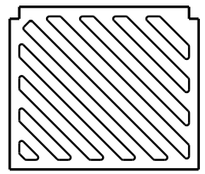
GENERAL NOTES

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

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

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

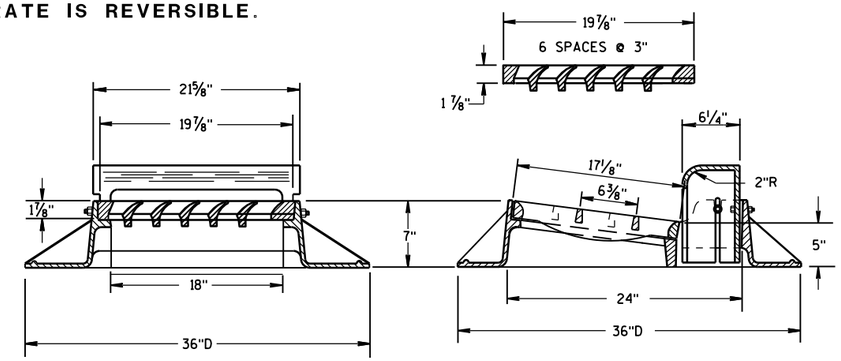




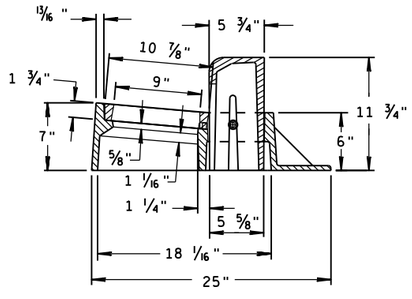
SPECIAL GRATE FOR TYPE "A" COVER

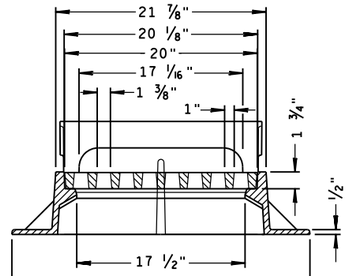
(MEASURES 19 3/4" X 17" X 1 7/8")

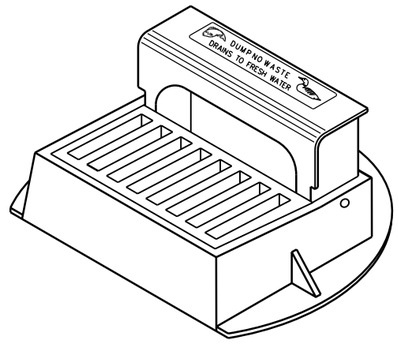
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

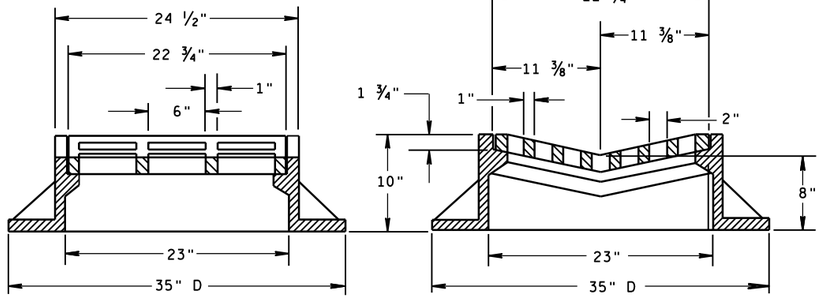
INLET COVERS
TYPE A, H, A-S, H-S & Z

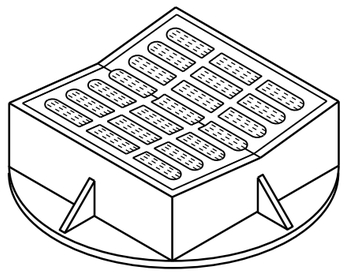
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

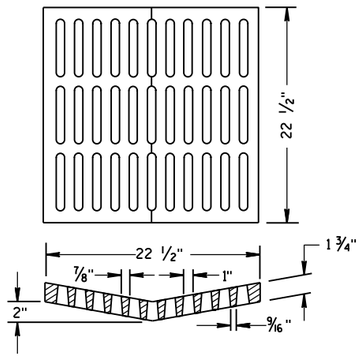
PRE_204

6
S.D.D. 8 A 5-19a



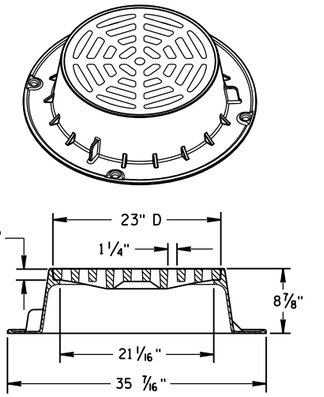


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

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



TYPE "C"

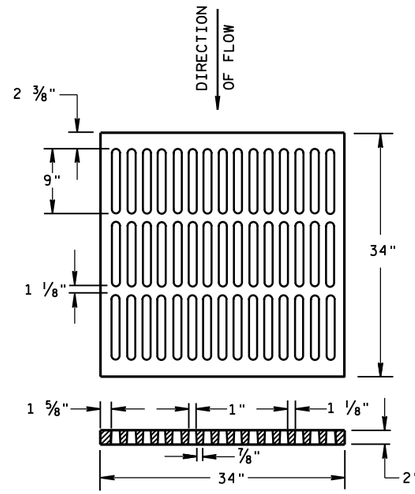
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

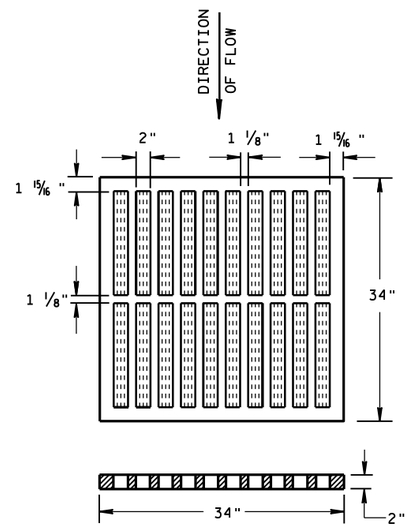
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



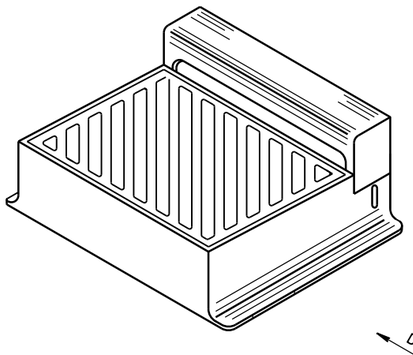
ALTERNATIVE TYPE "MS"

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



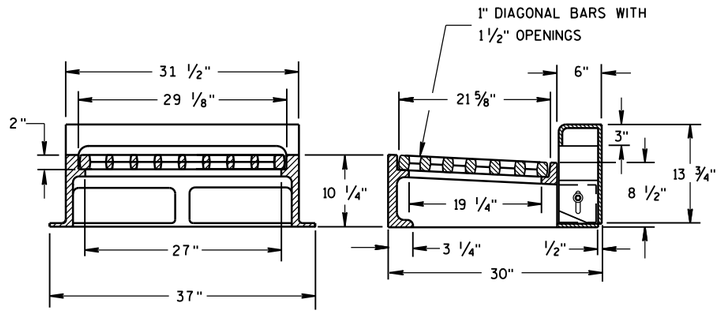
TYPE "MS"

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



DIRECTION OF FLOW

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



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

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

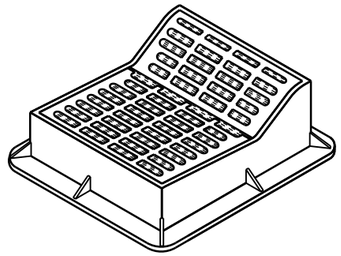
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

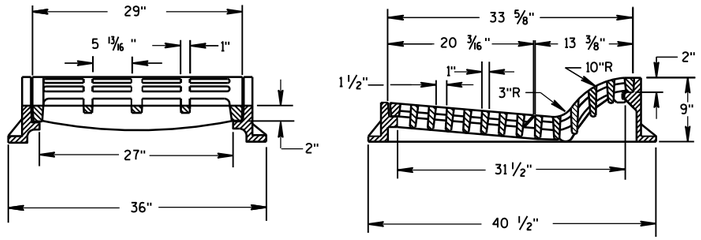
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

PRE_205

6

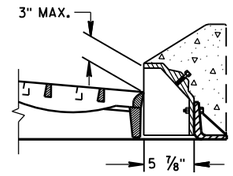
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

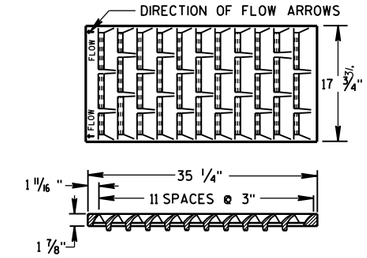
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

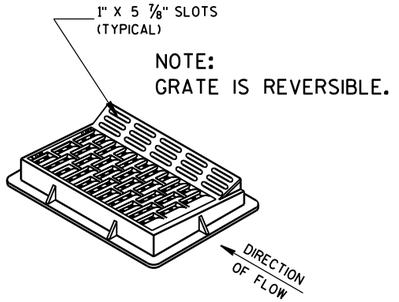
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

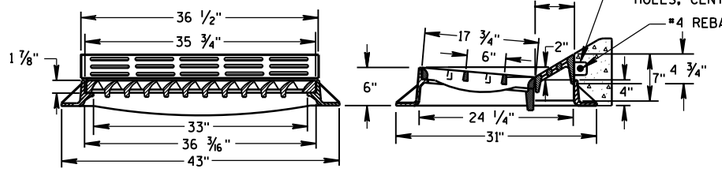
GENERAL NOTES

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

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



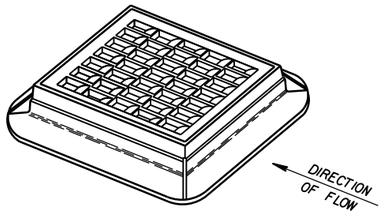


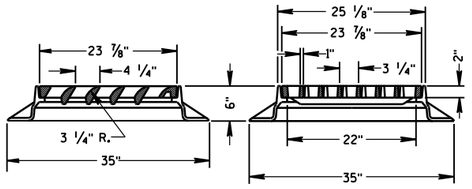


TYPE "HM"

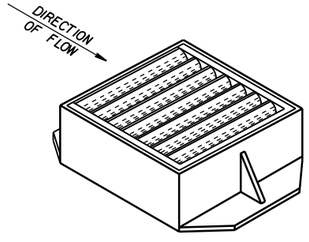
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

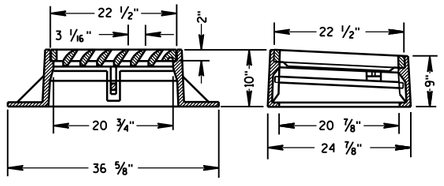
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



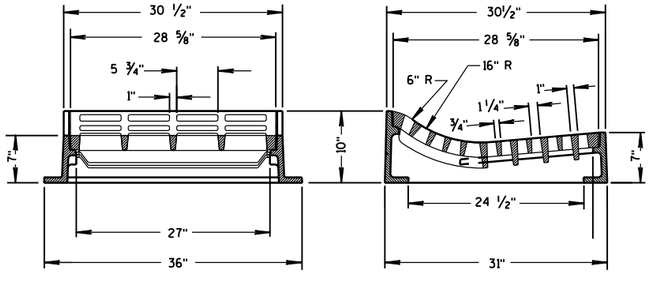


TYPE "S"



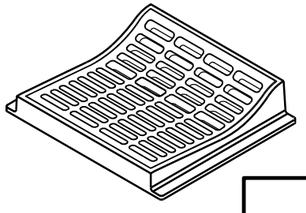


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

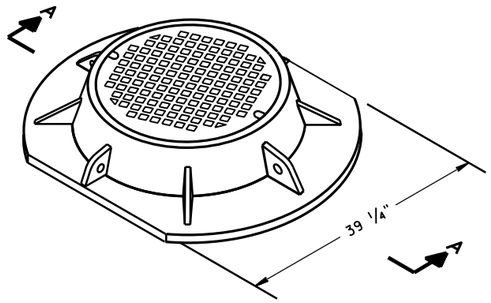
PRE_206

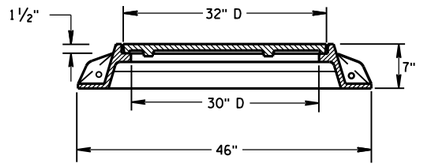
6

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

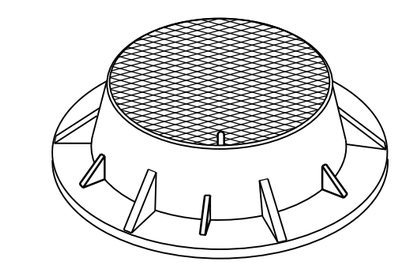
6

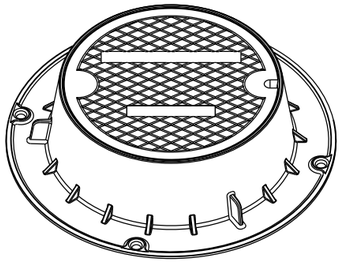
S.D.D. 8 A 5-19c

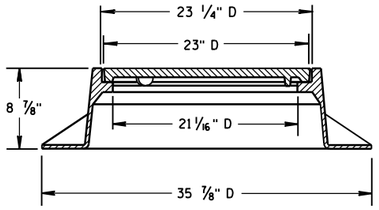


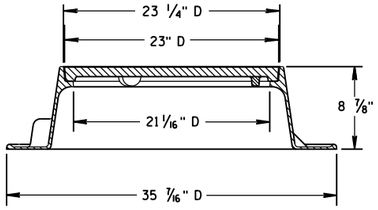


SECTION A-A
TYPE "K"









TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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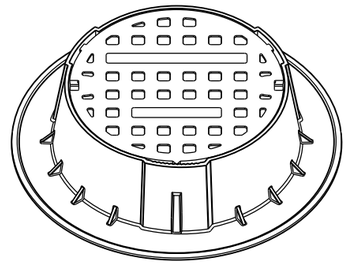
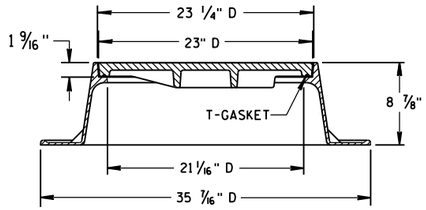
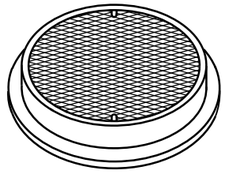
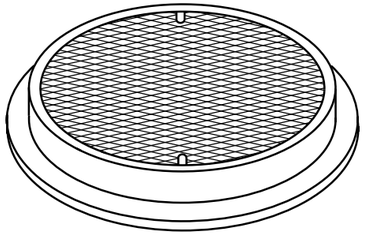
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

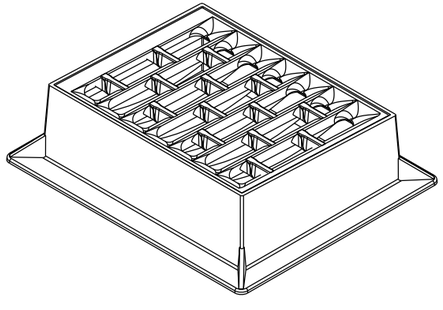
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

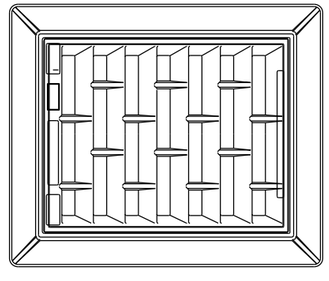


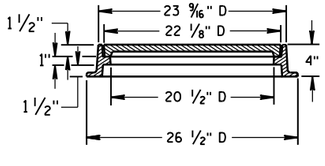




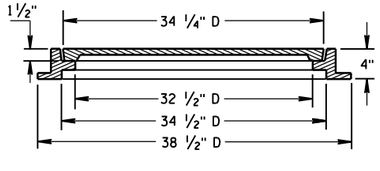




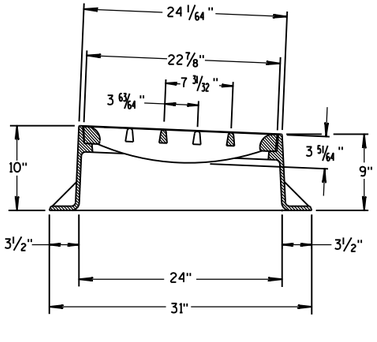


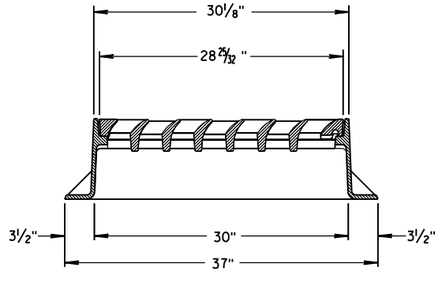


TYPE "L"

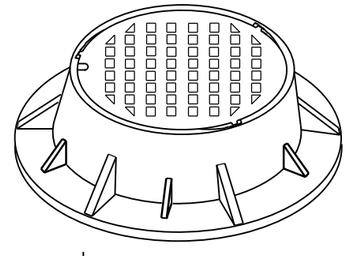


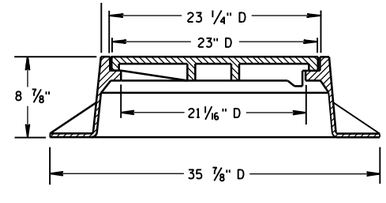
TYPE "M"





INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

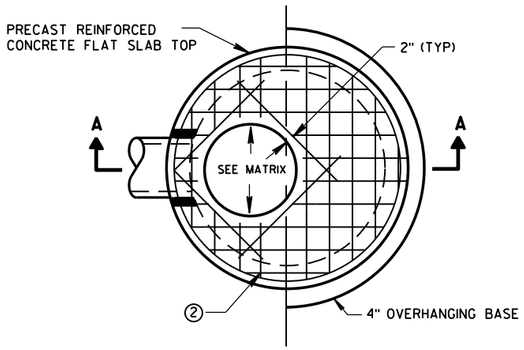
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

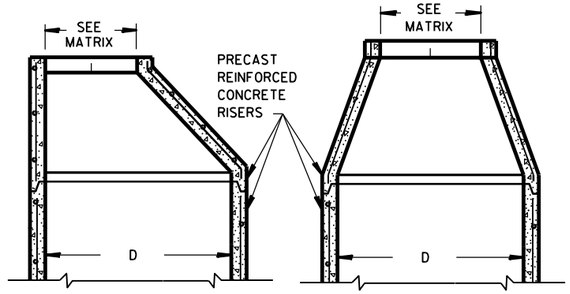
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

PRE_207

6
S.D.D. 8 A 5-19d

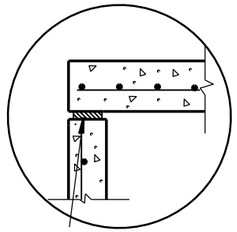


PLAN VIEW CIRCULAR OPENING

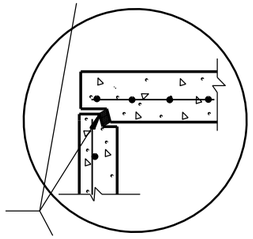


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

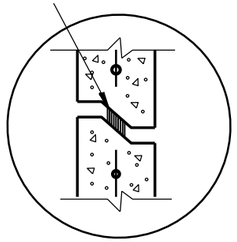
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



TOP WITH PLAIN END JOINT

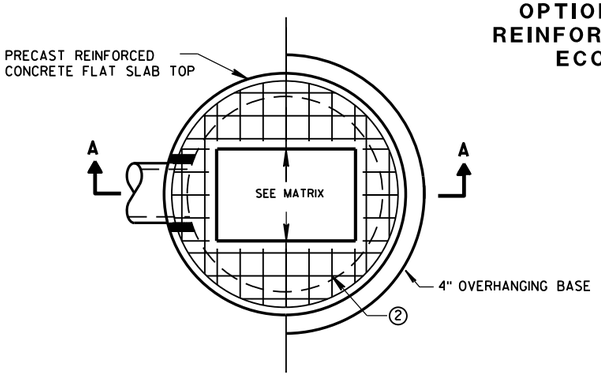


TOP WITH TONGUE AND GROOVE JOINT

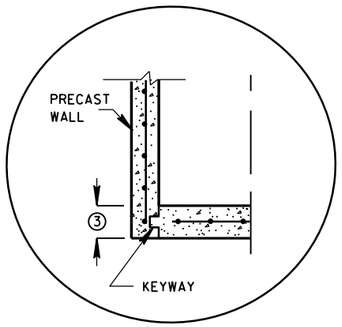


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

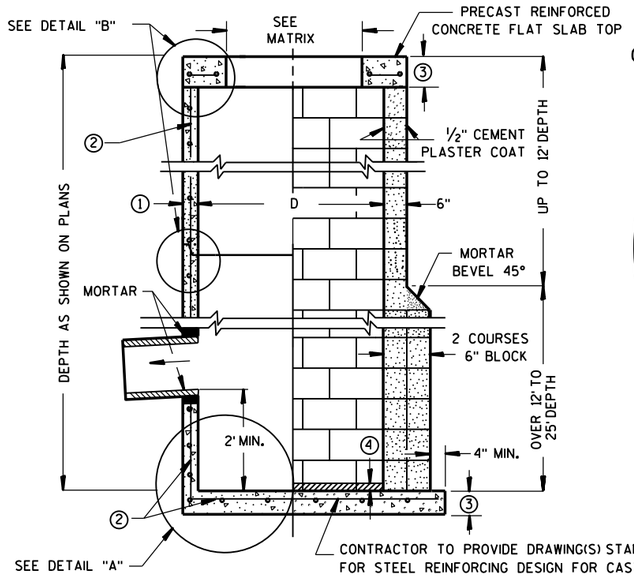


PLAN VIEW RECTANGULAR OPENING



JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

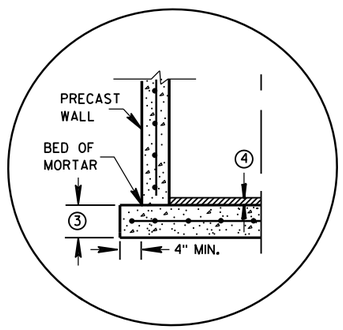
PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SECTION A-A

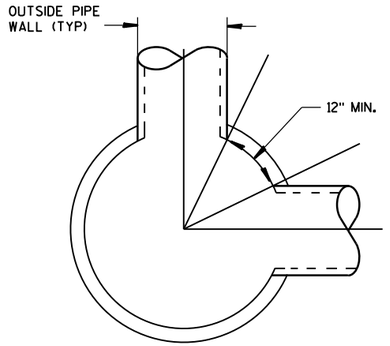
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDA NT
UNIT SU
FHWA

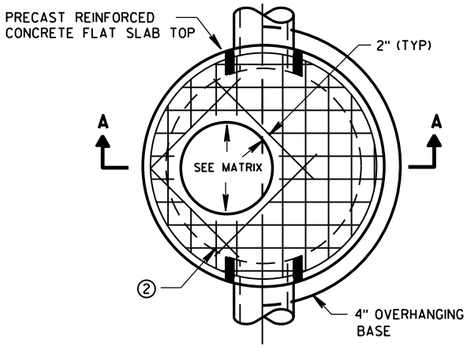
PRE_208

6

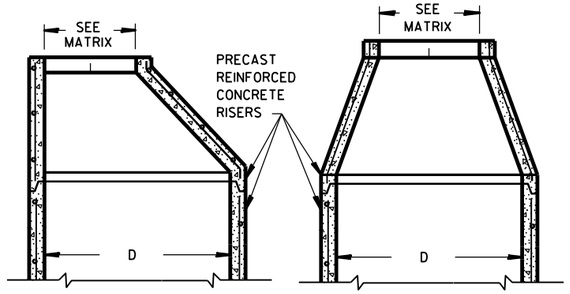
S.D.D. 8 A 8-2

6

S.D.D. 8 A 8-2

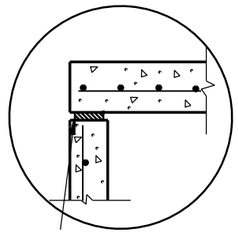


PLAN VIEW CIRCULAR OPENING

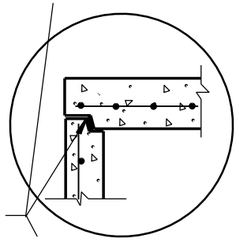


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

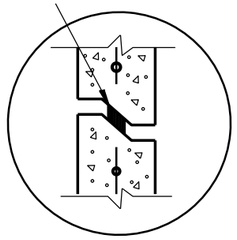


TOP WITH PLAIN END JOINT



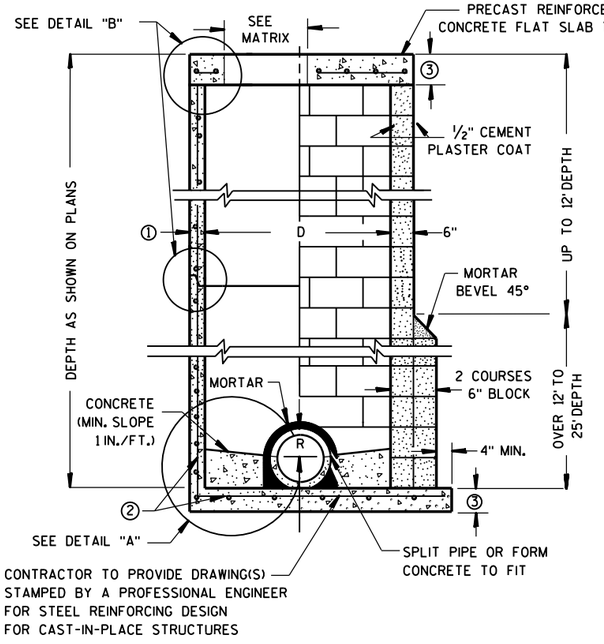
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



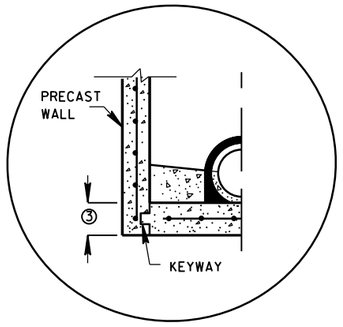
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

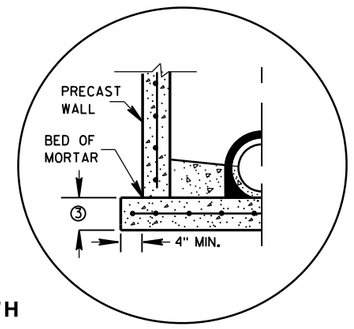


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

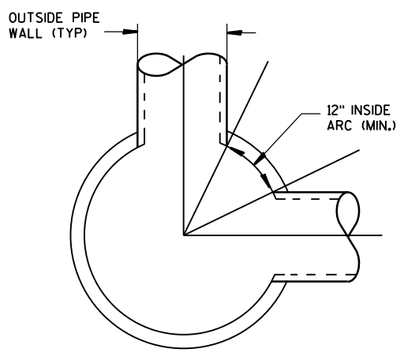


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SU PRE_209

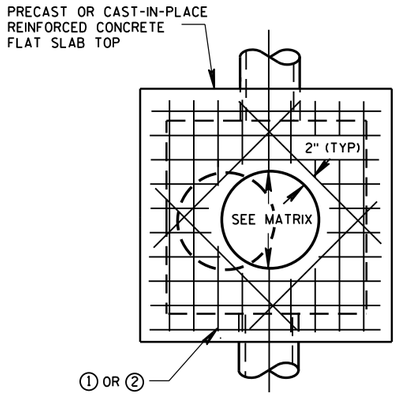
FHWA

6

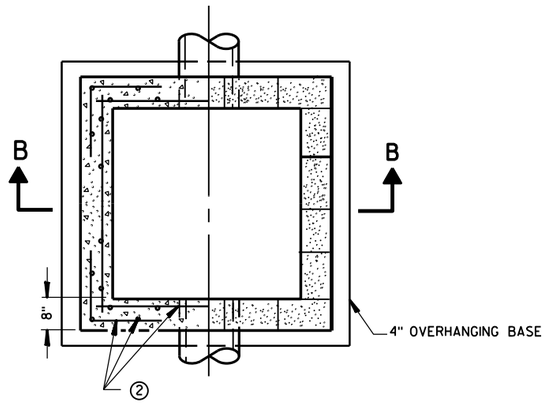
S.D.D. 8 B 9-2

6

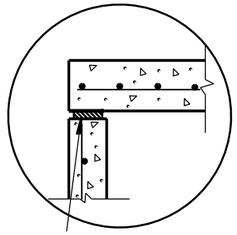
S.D.D. 8 B 9-2



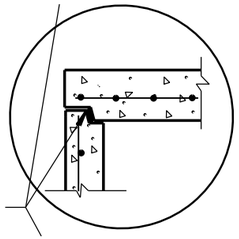
PLAN VIEW
CIRCULAR OPENING



SECTION A-A
PLAN VIEW

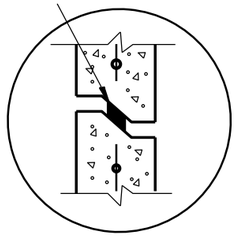


TOP WITH PLAIN END JOINT



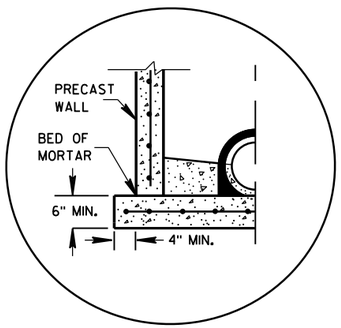
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



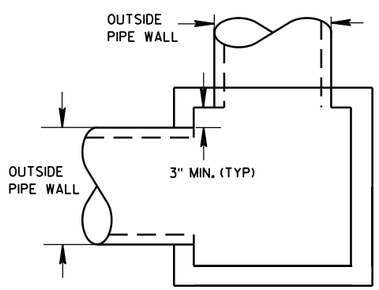
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



SEPARATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN WIDTH.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "C". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

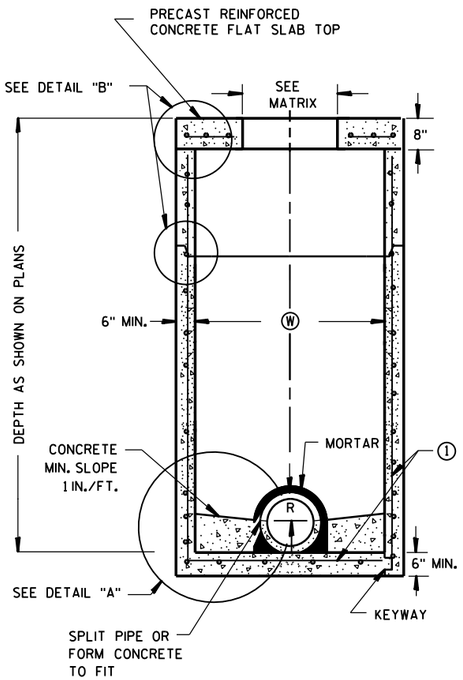
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

MANHOLE COVER OPENING MATRIX

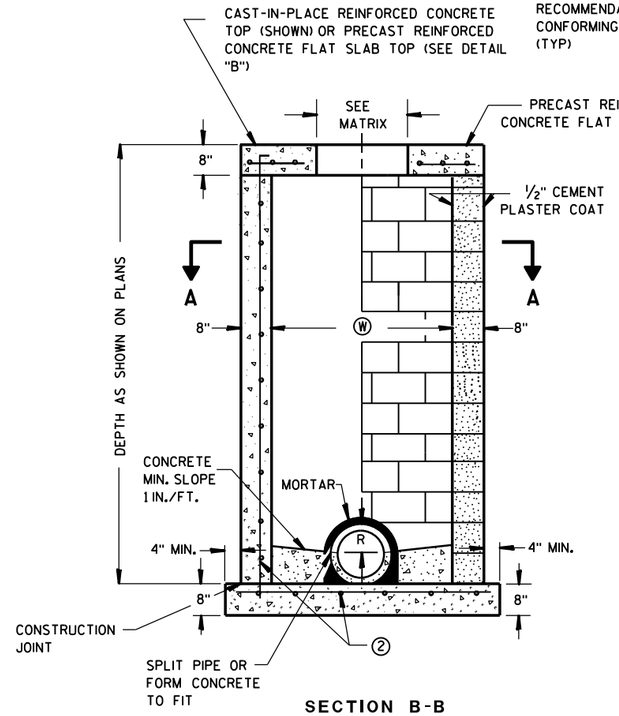
MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH Ⓦ (IN)	LENGTH Ⓛ (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE



PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

SECTION B-B

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE

SQUARE MANHOLES W/ FLAT TOP

MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT 5X5-FT AND 6X6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR

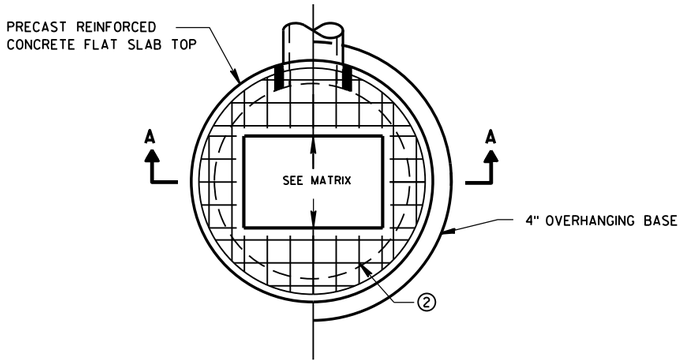
PRE_210

6

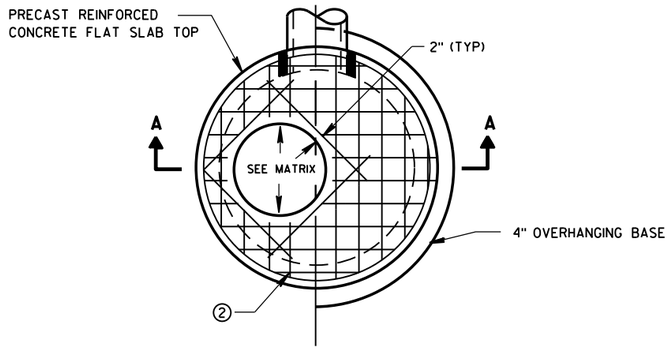
S.D.D. 8 B 10-2

6

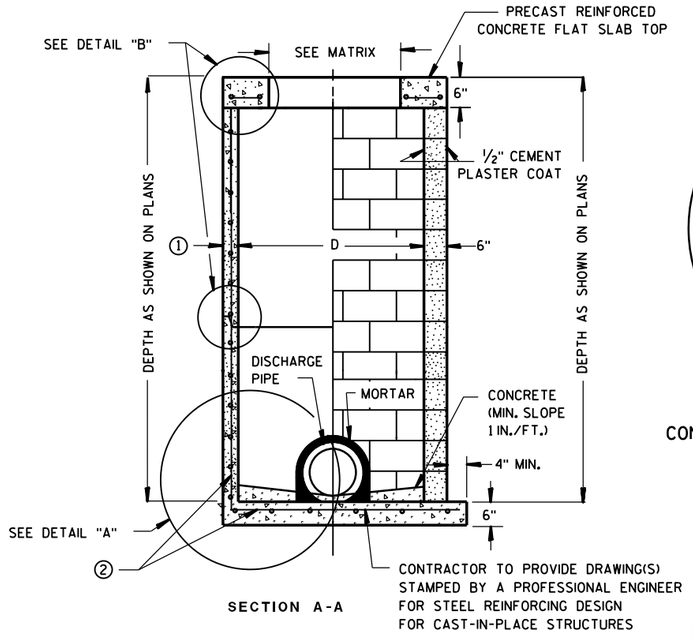
S.D.D. 8 B 10-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

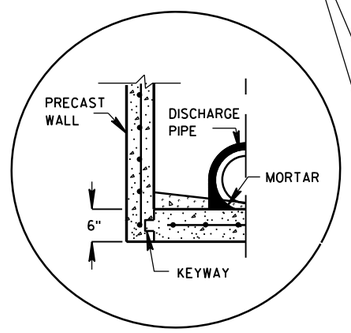


SECTION A-A

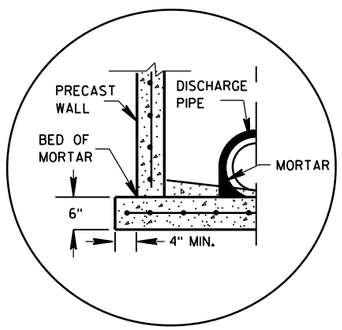
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

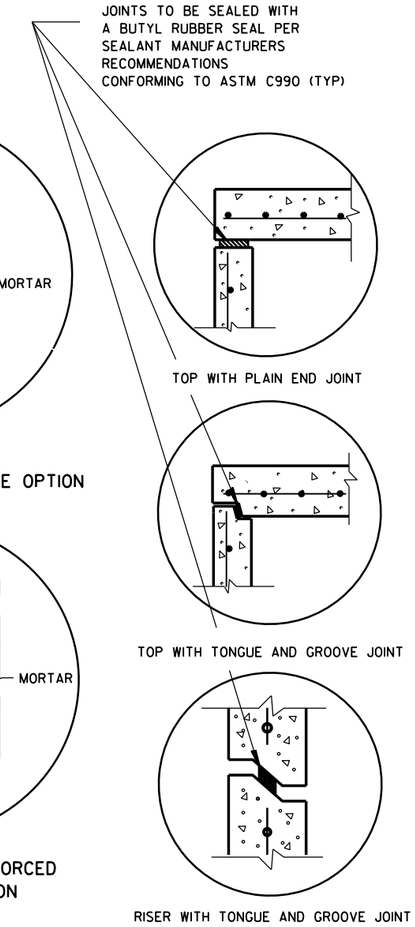


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

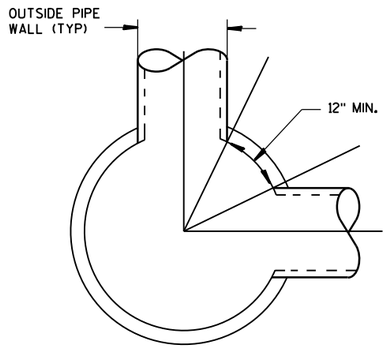
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

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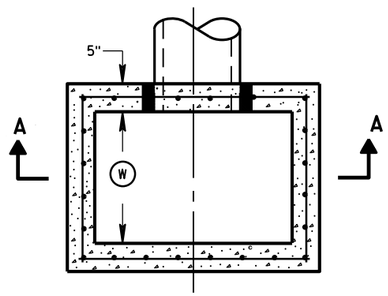
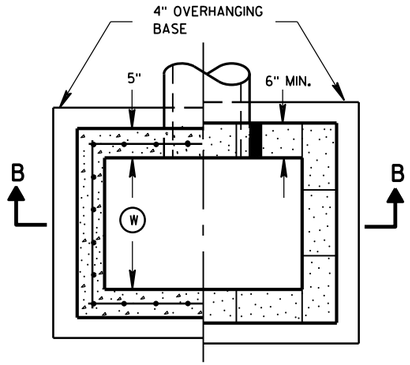
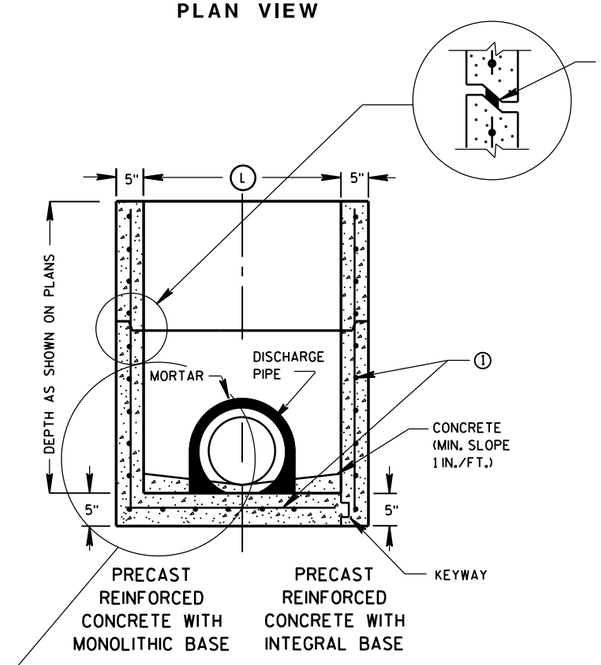


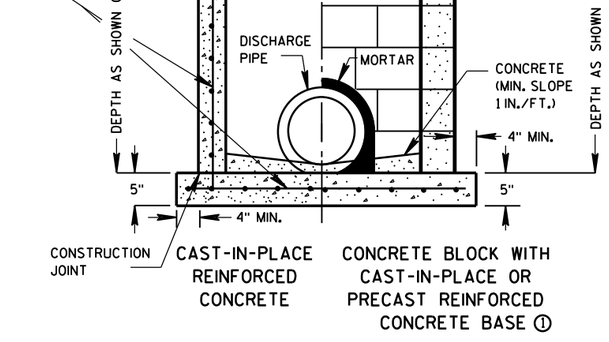
PLAN VIEW



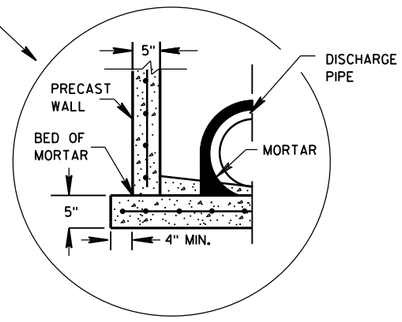
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

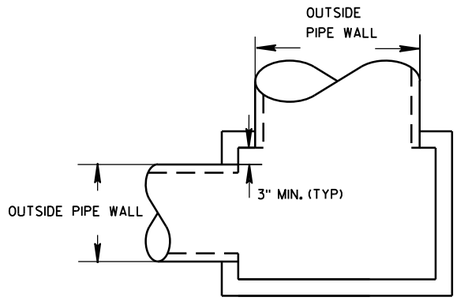
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

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FHWA

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ROADWAY STANDAR
UNIT SUP

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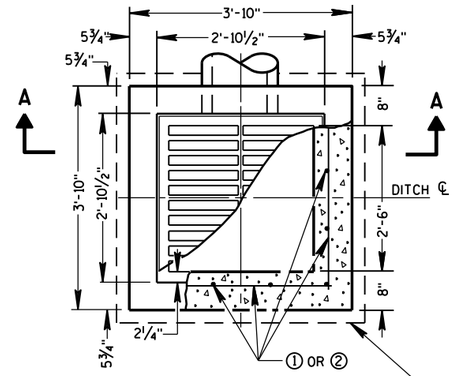
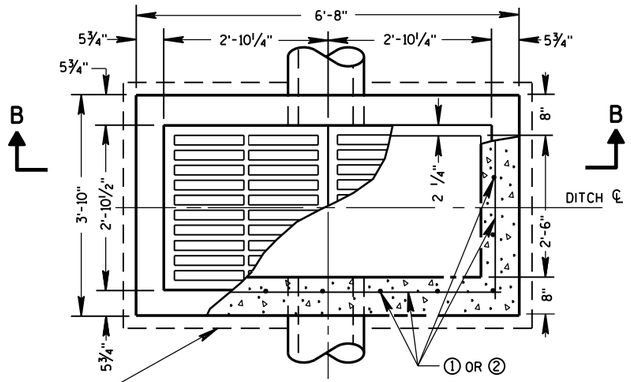
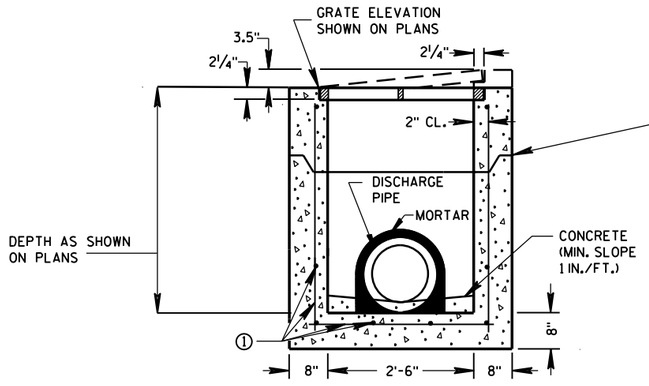


PLAN VIEW

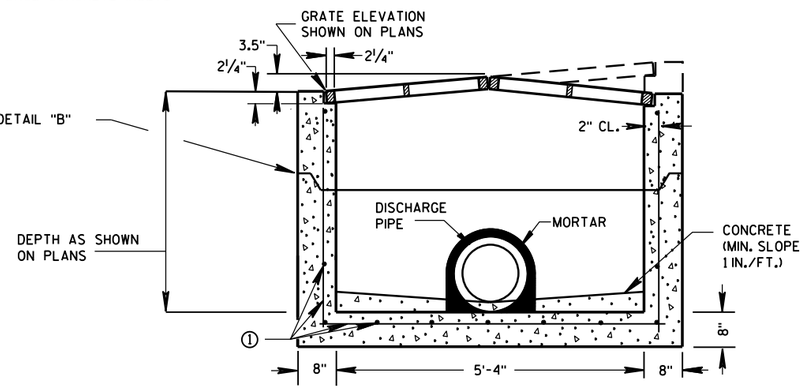


PLAN VIEW

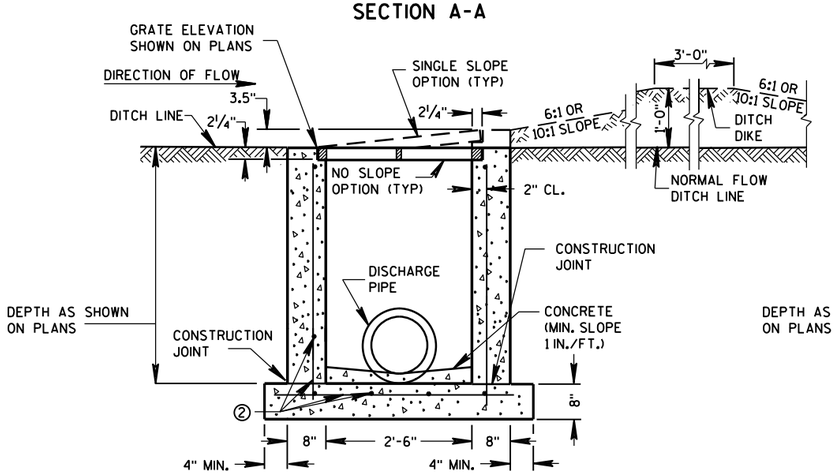
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



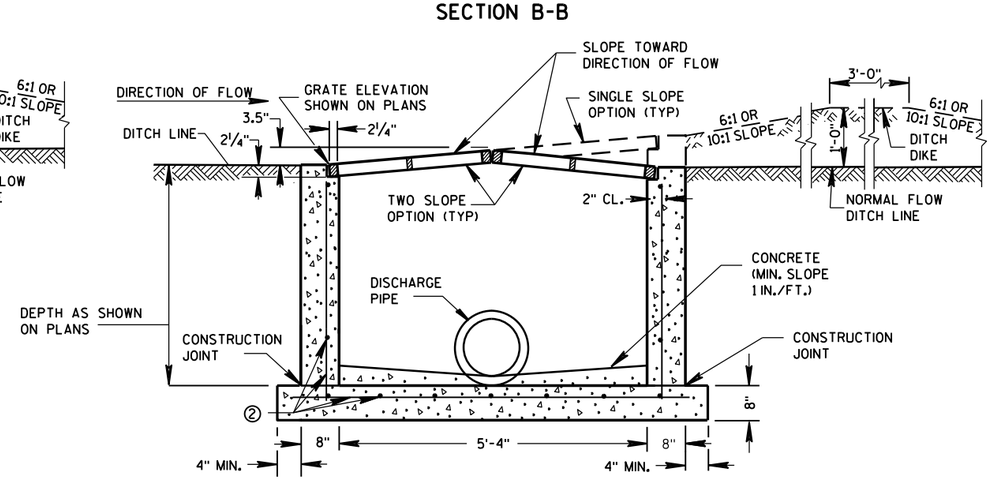
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

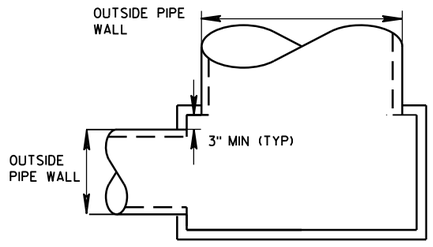
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

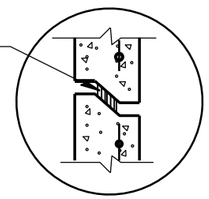
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
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FHWA

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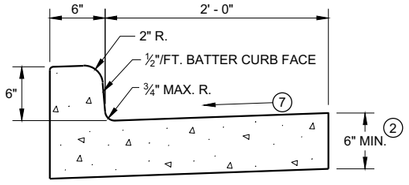
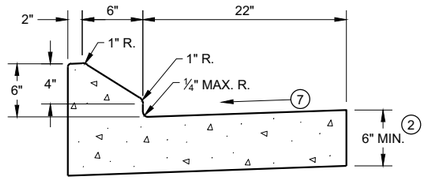
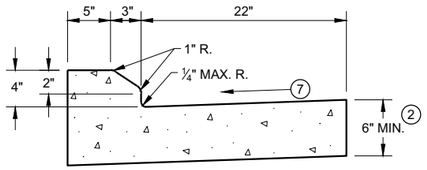


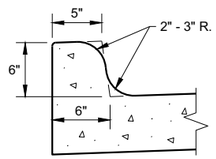
TYPES A (1) & D



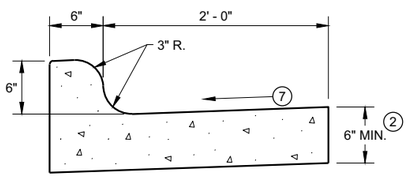
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

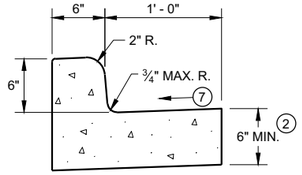


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



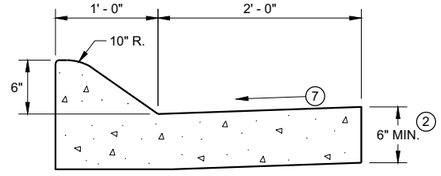
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

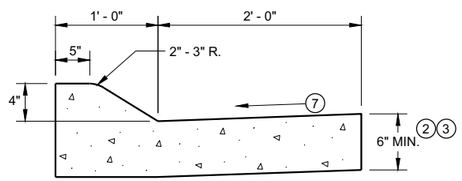


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

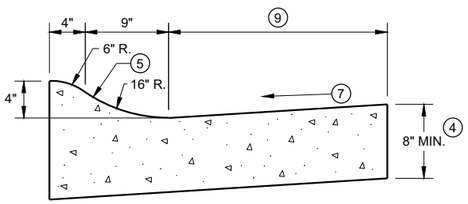


6" SLOPED CURB TYPES A (1) & D



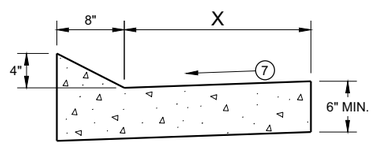
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

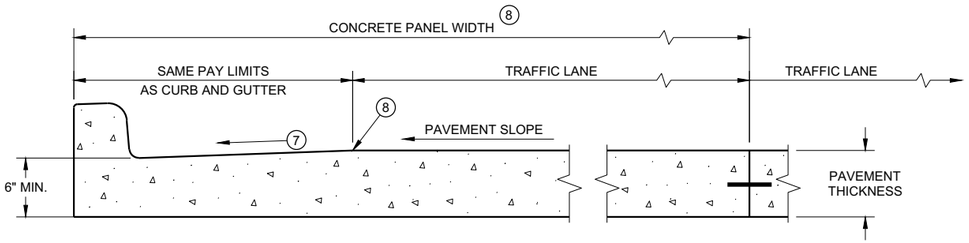


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

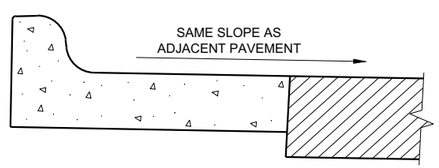
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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
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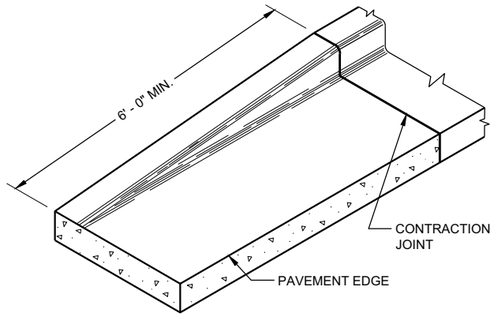
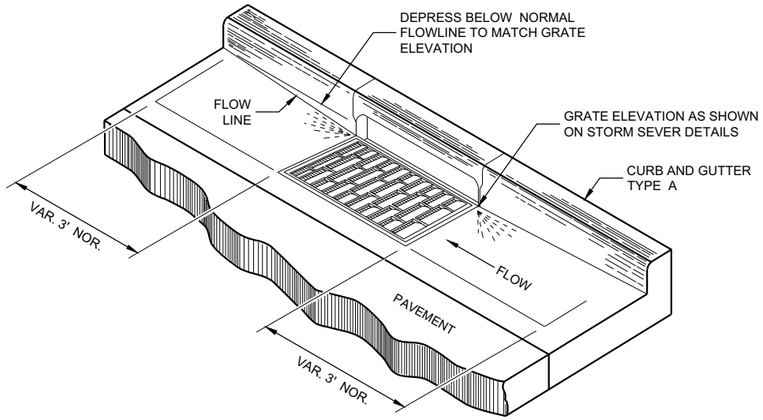


END SECTIONCURB AND GUTTER



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

GENERAL NOTES

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

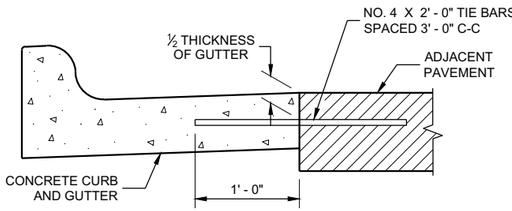
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

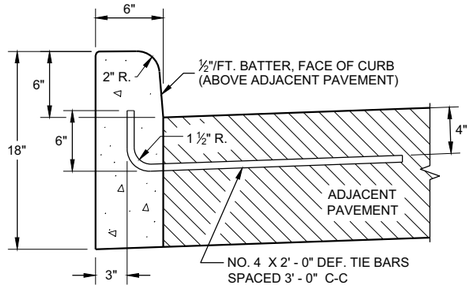
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

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

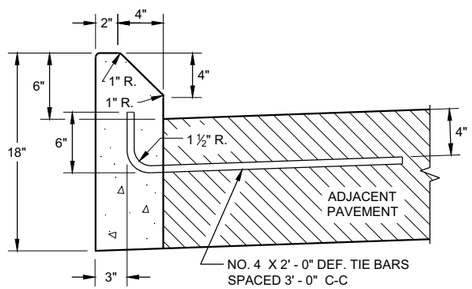
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

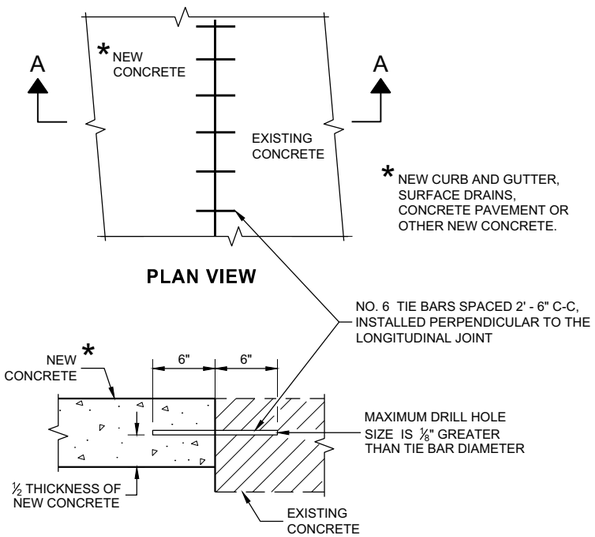


TYPES A (1) & D



TYPES G (1) & J

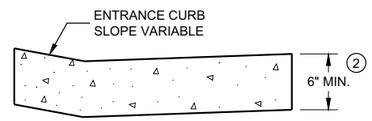
CONCRETE CURB



PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



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

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

PRE_215

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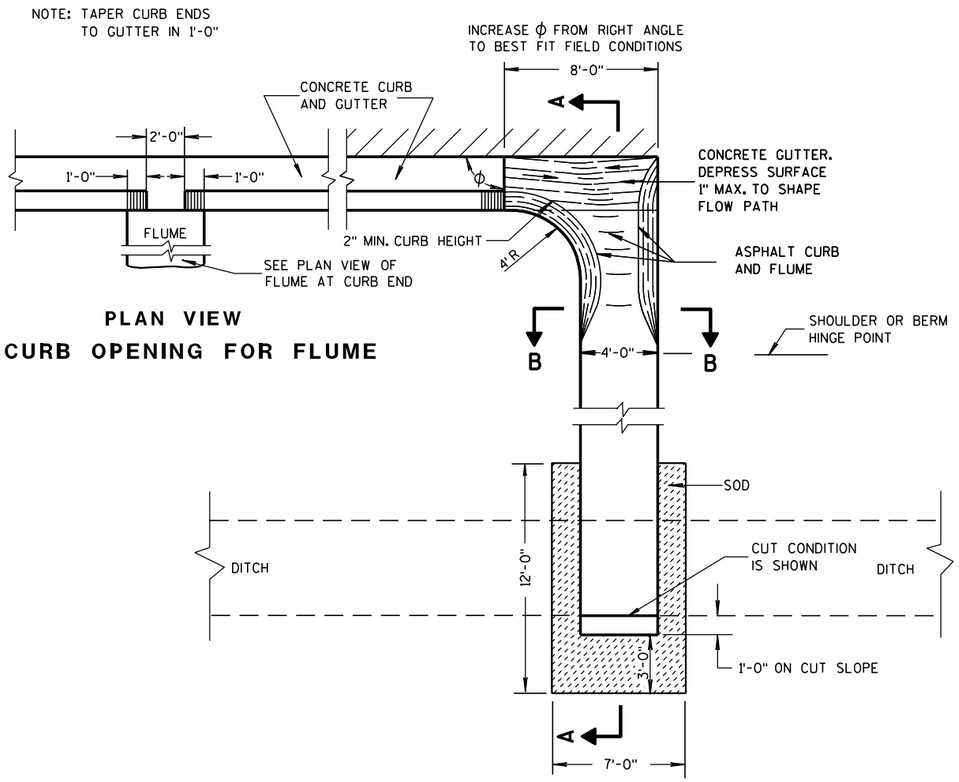
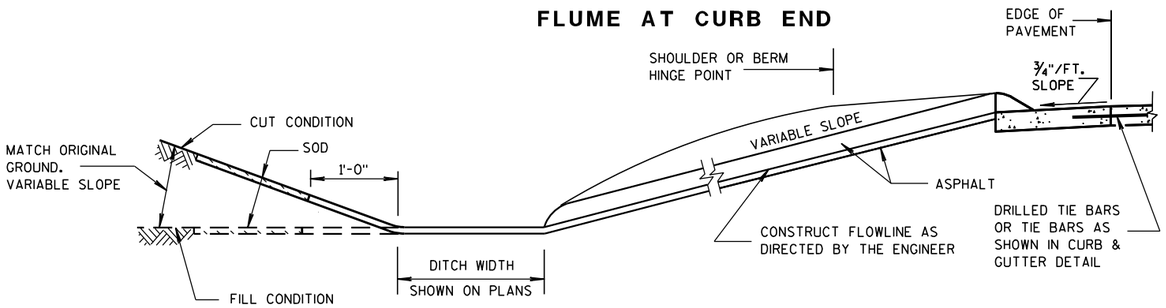
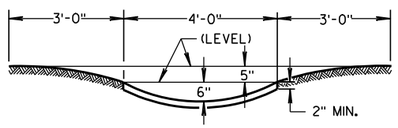
SDD08D01 - 22b

ASPHALTIC FLUME







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.

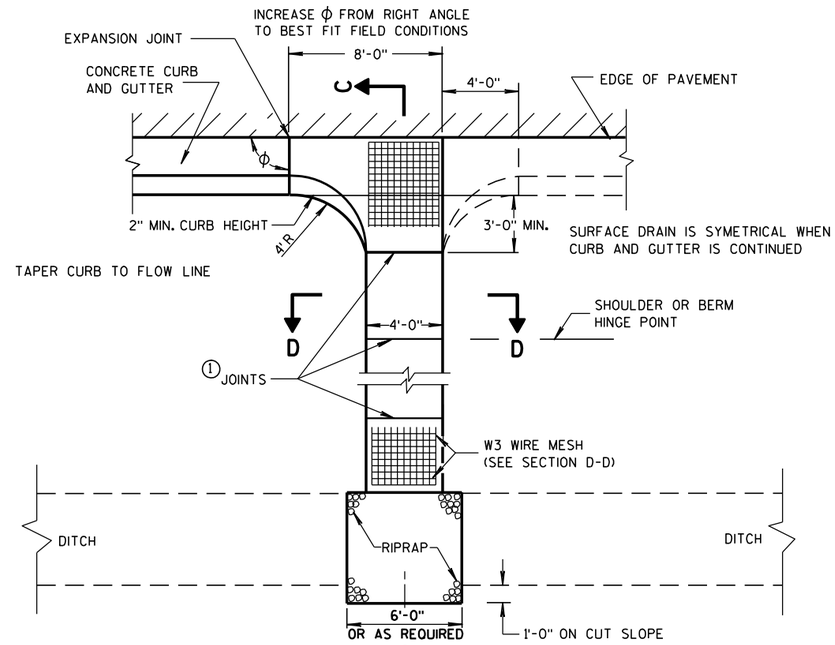
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

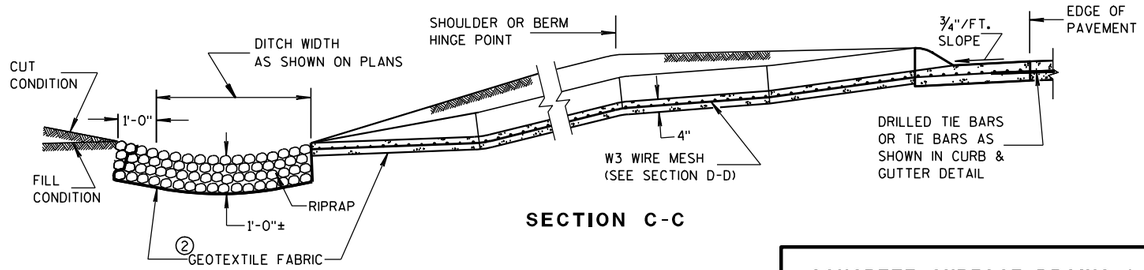
① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

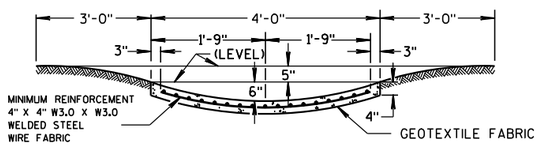
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

③ CONCRETE SURFACE DRAIN







CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-4-08
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

PRE_216

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S.D.D. 8 D 4-5

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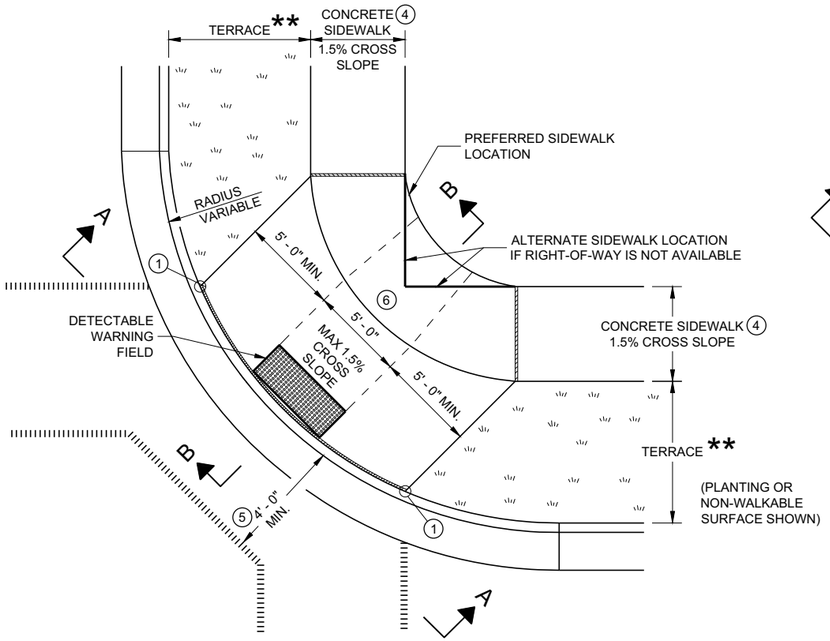
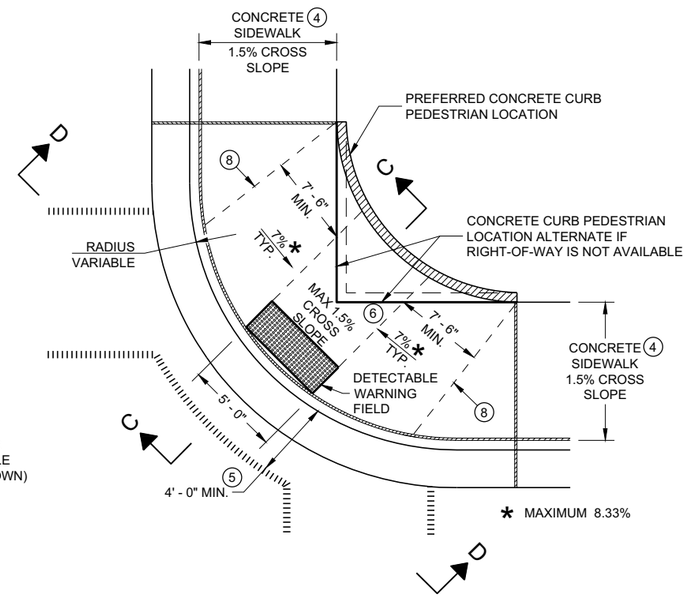
S.D.D. 8 D 4-5



PLAN VIEW

CURB RAMP TYPE 1

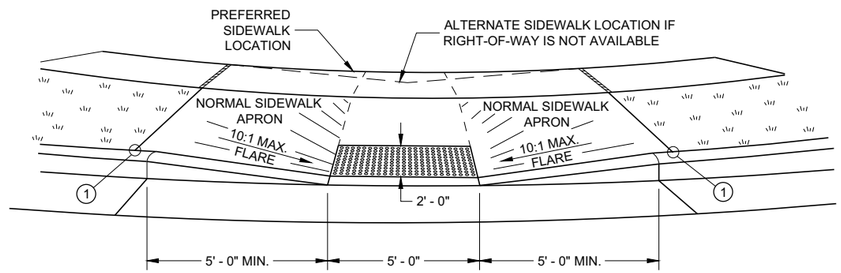
(CENTER OF CORNER RADIUS)



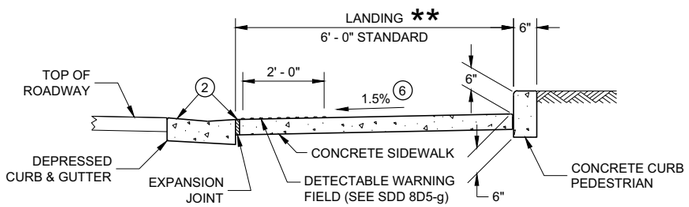
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

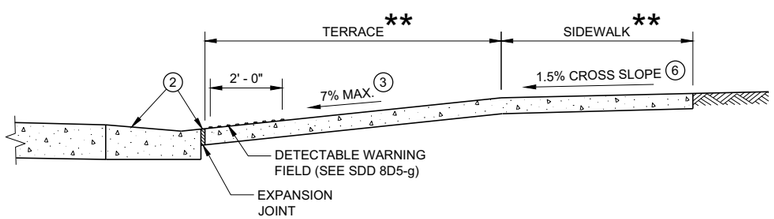


VIEW A - A FOR TYPE 1

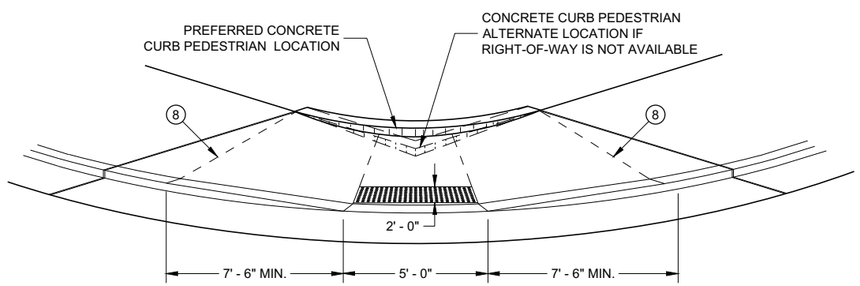


SECTION C - C FOR TYPE 1 - A

** 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.

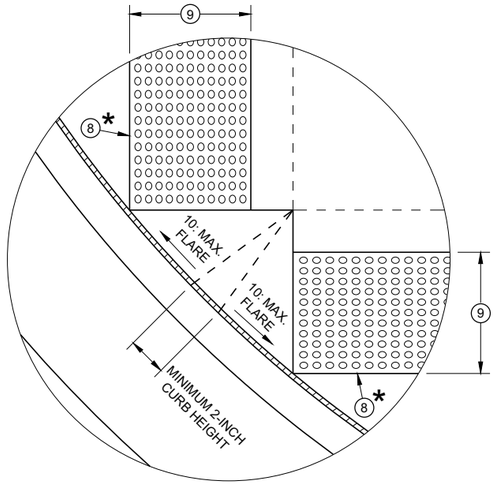
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

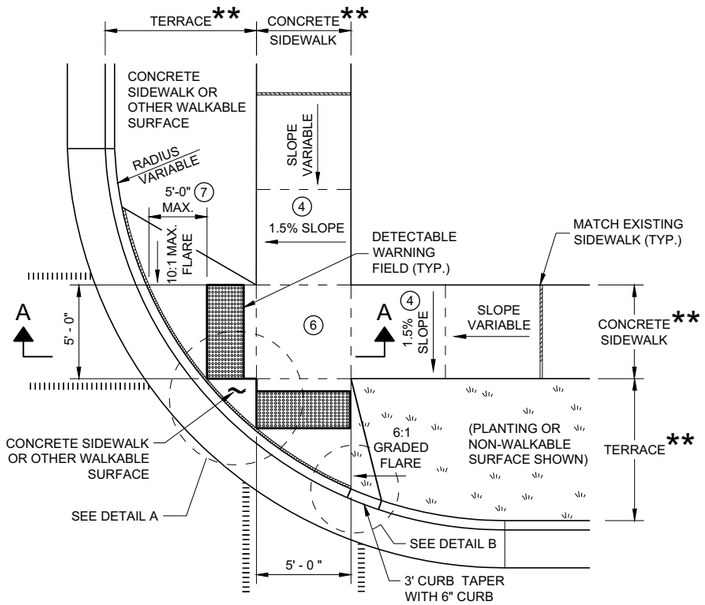
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_217



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

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

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

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

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

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

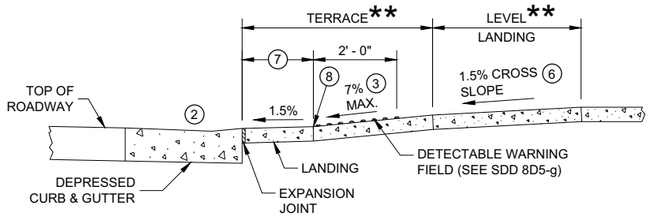
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

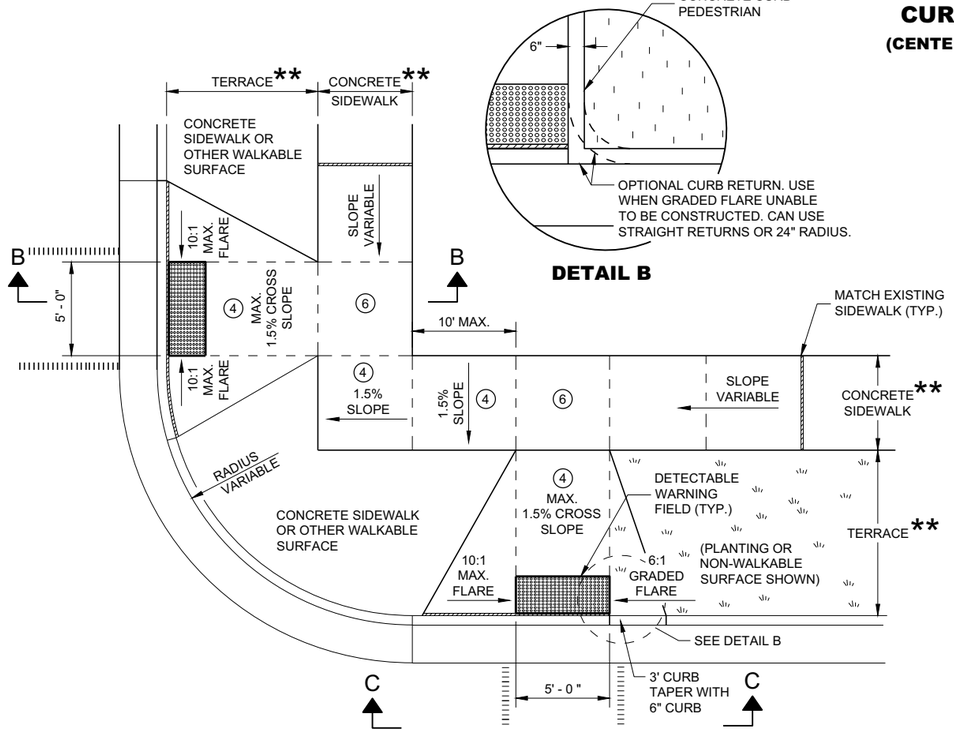
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

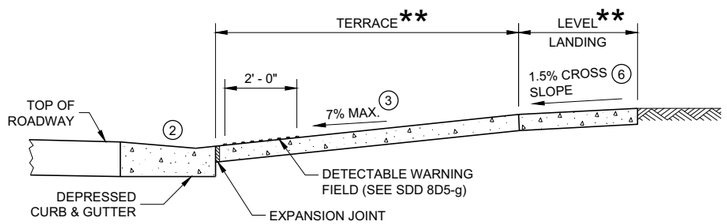
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

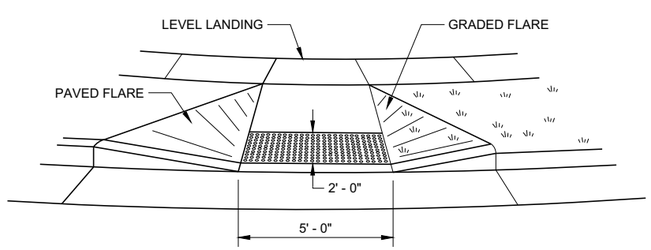


DETAIL B

PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



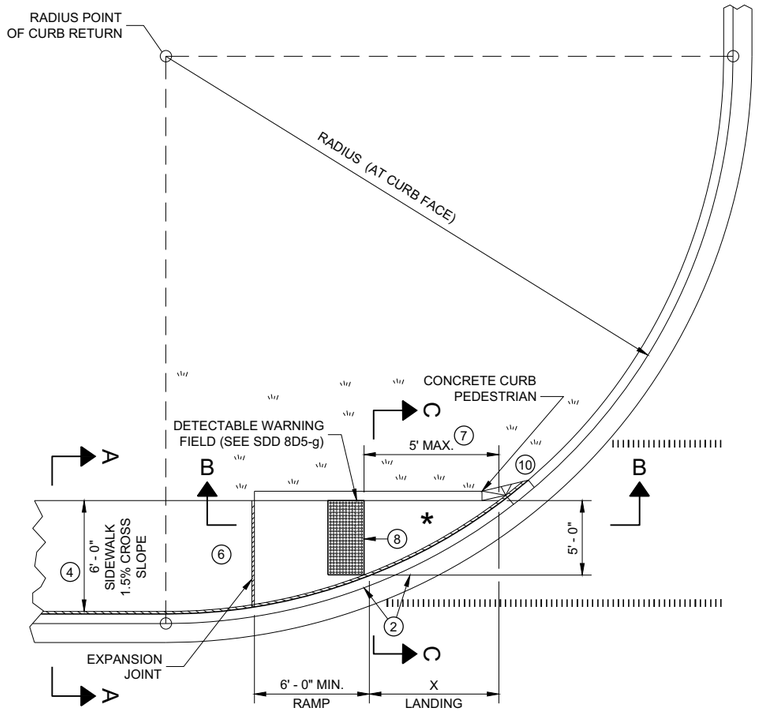
VIEW C - C FOR TYPE 3

LEGEND

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

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_218

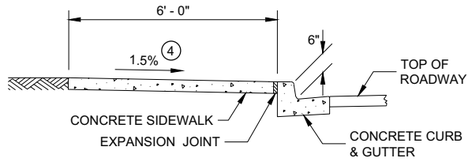


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

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

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

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

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

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

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

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

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

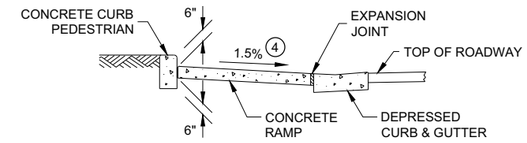
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

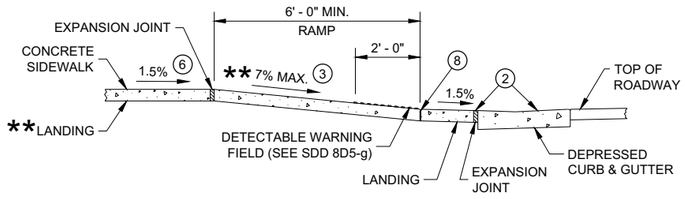
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



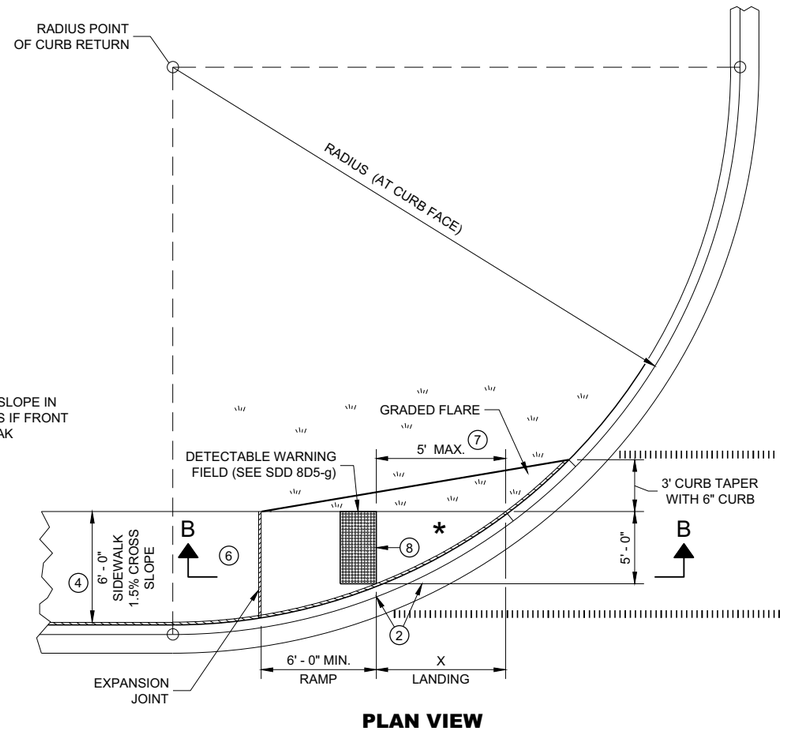
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

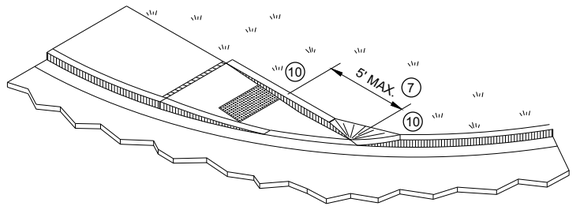
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

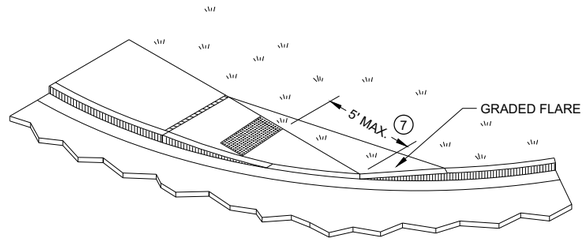


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_219

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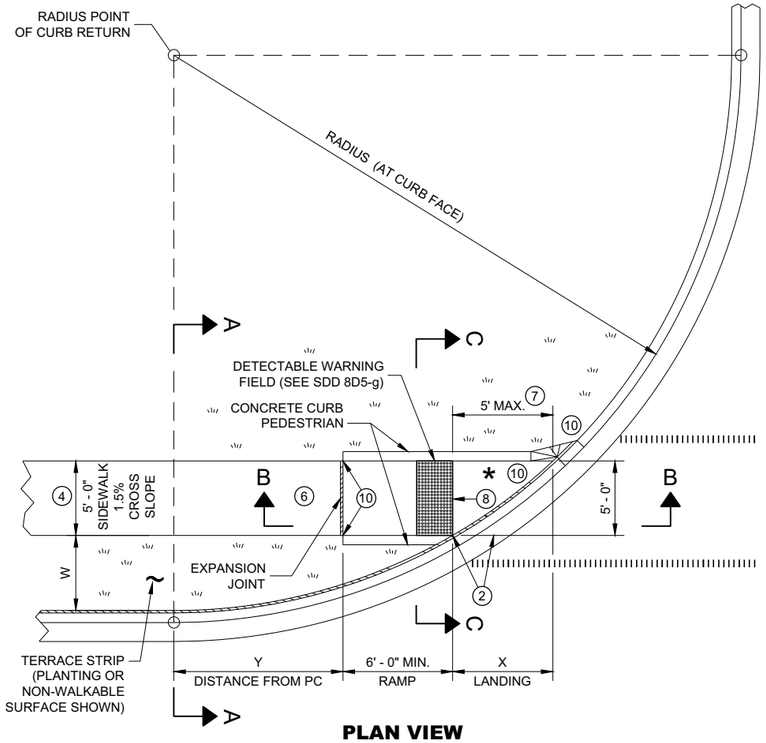
SDD 08D05 - 20c

6

SDD 08D05 - 20c

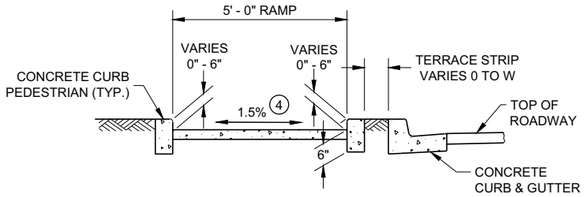


PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

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

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

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

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

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

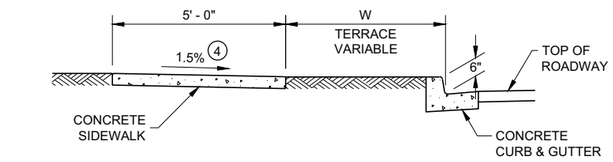
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

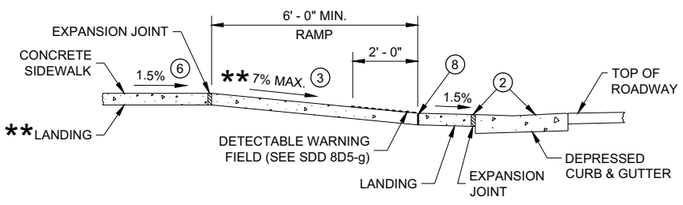
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



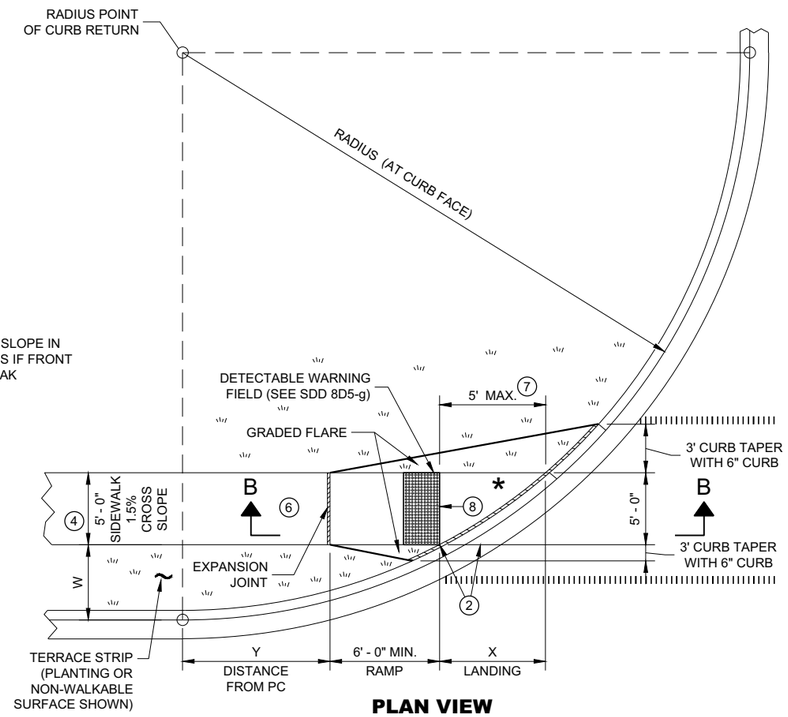
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

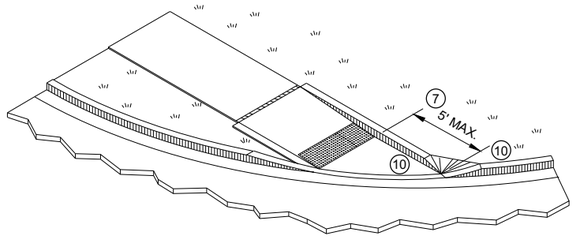
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

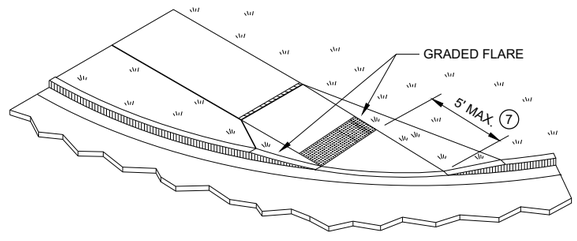


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_220

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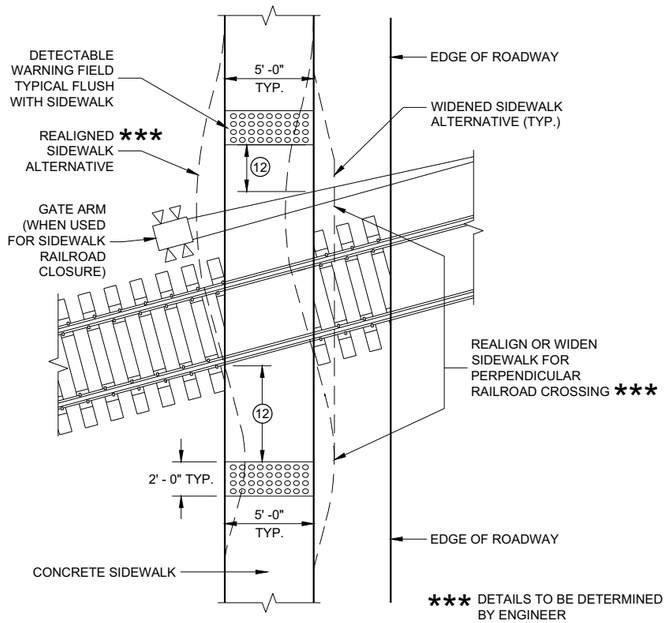
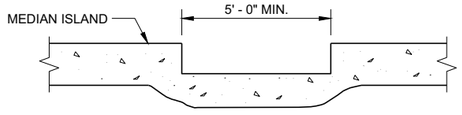
SDD 08D05 - 20d

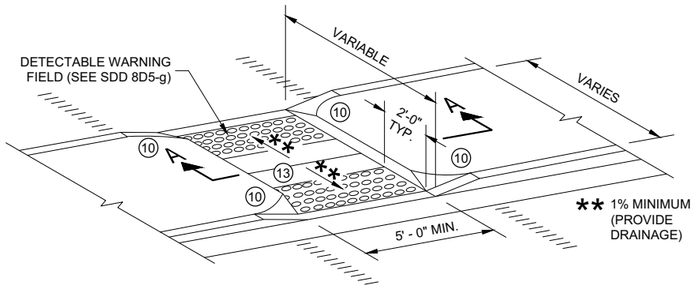


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

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

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

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

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

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

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

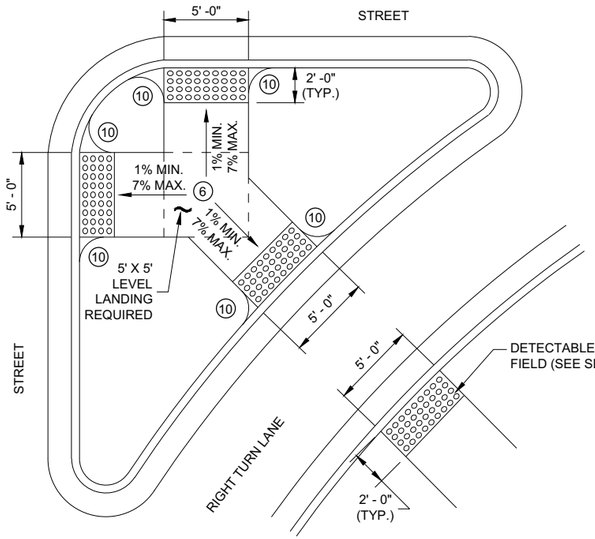
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

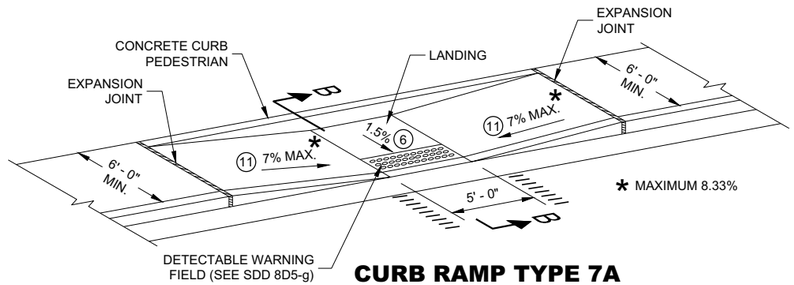
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

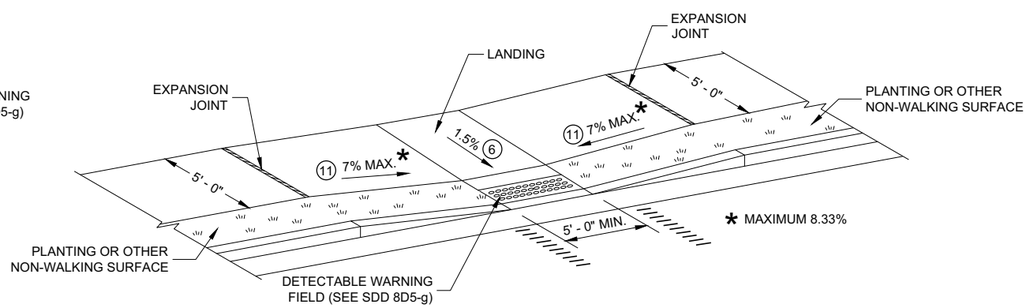
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

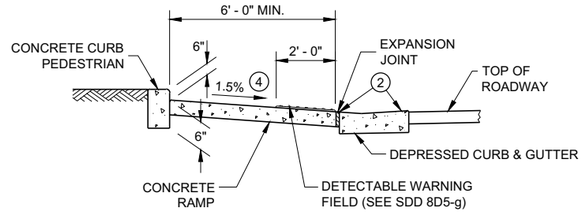
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
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SDD 08D05 - 20e

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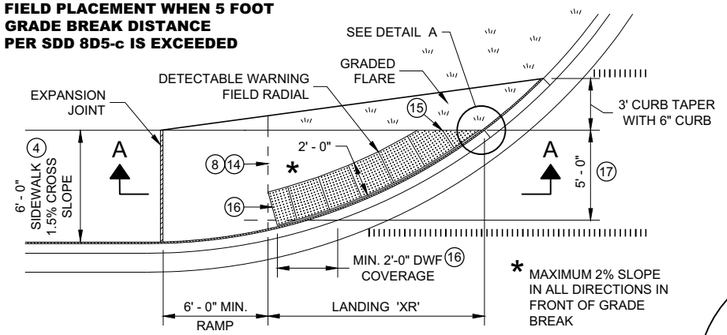
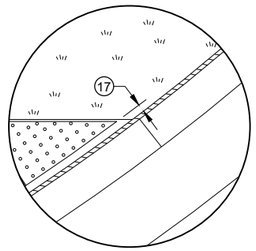
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



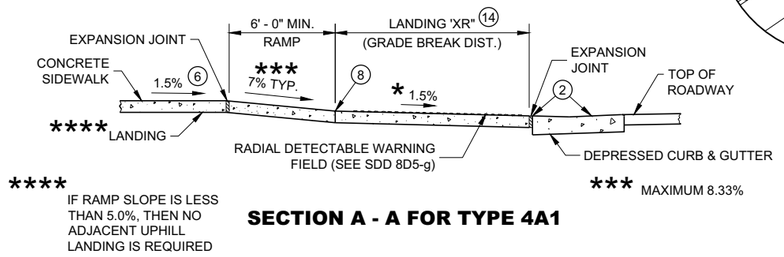
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



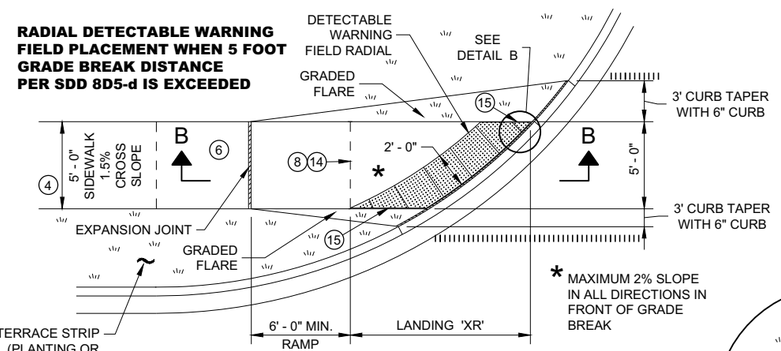
DETAIL A



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION A - A FOR TYPE 4A1

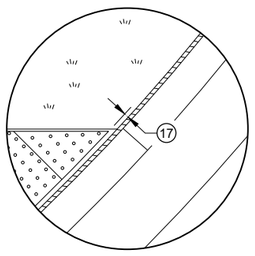
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



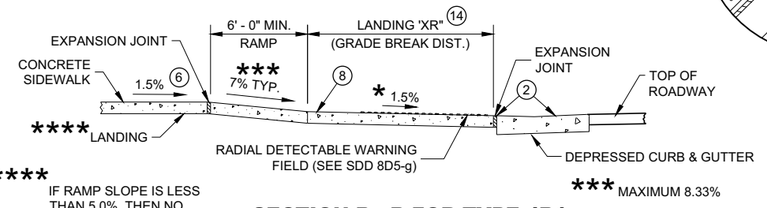
PLAN VIEW

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

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.

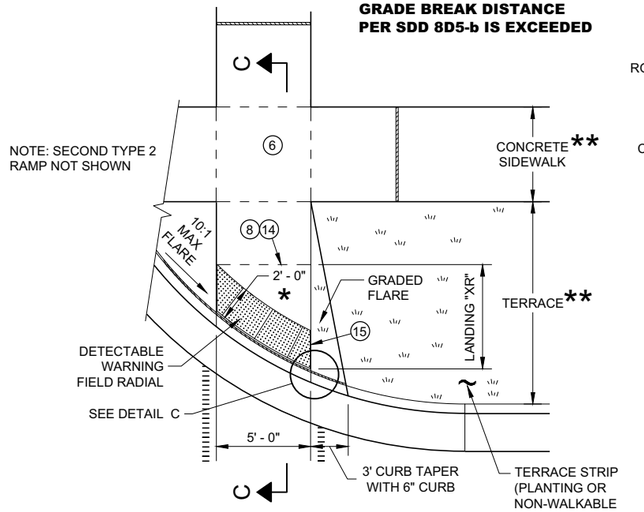
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(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

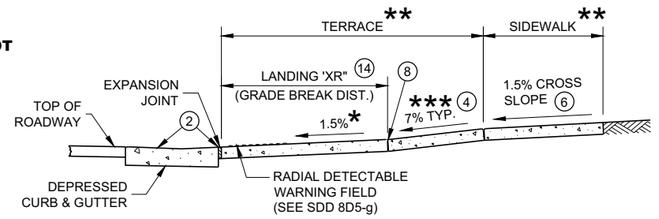


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

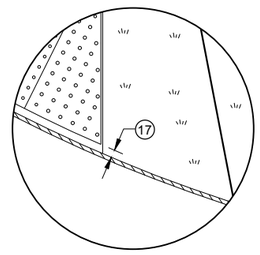


SECTION C - C FOR TYPE 2

* 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 TRANSPO PRE_222

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SDD 08D05 - 20f

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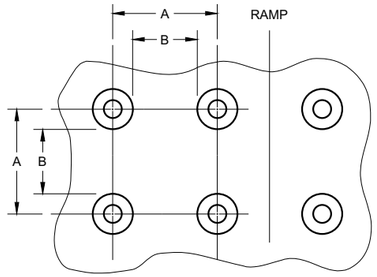
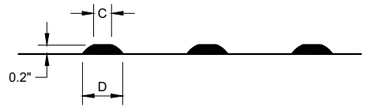
SDD 08D05 - 20f

	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.

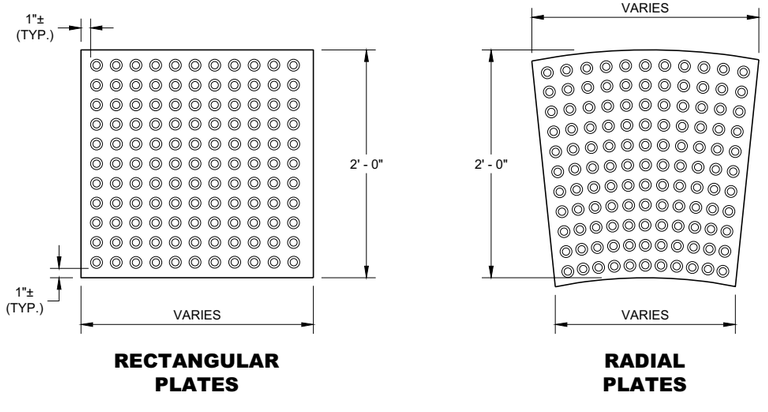


PLAN VIEW



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.

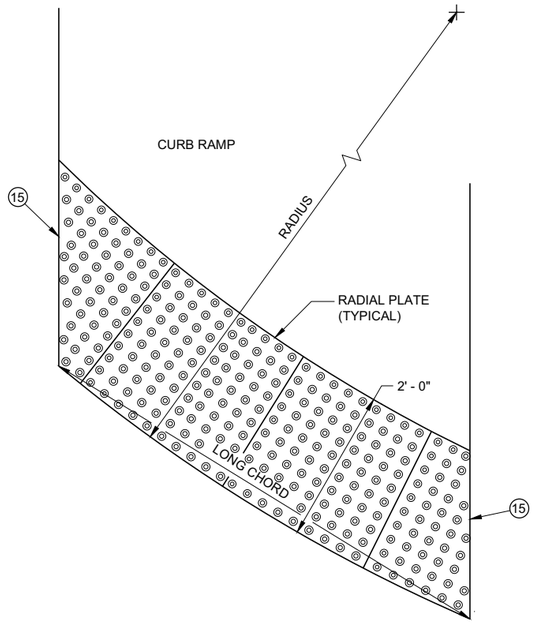
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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.

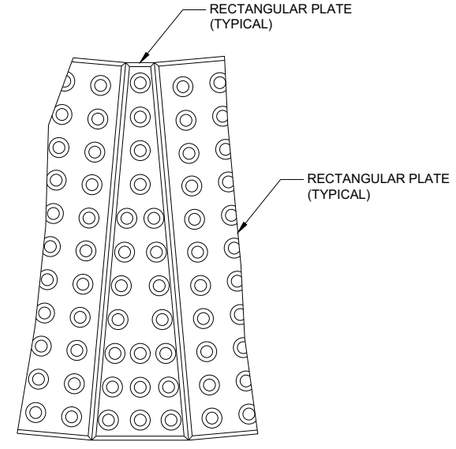
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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 UNIT SUPER

FHWA

PRE_223

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SDD 08D05 - 20g

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) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

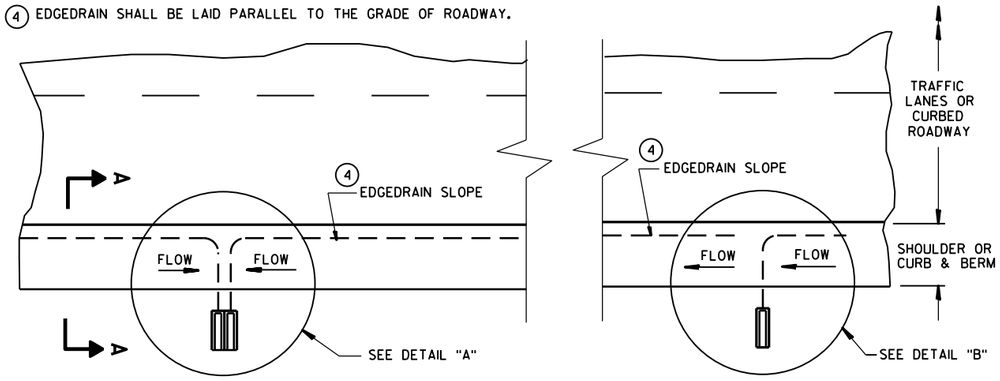
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

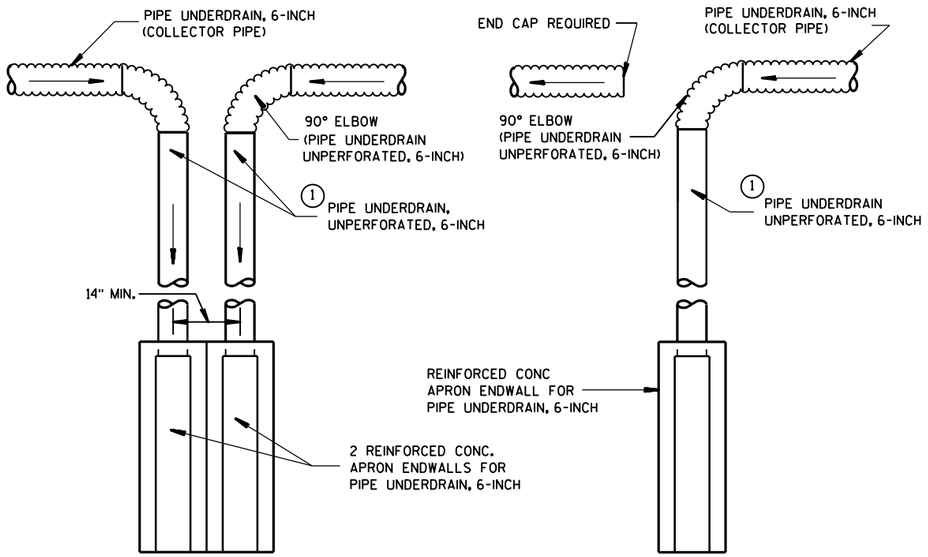
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

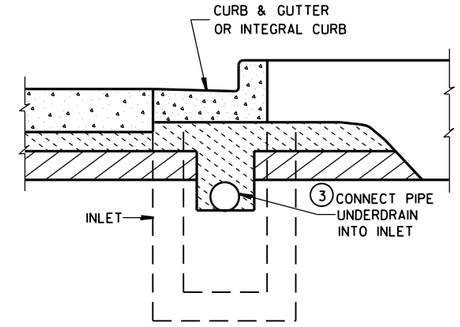
(EDGEDRAIN OUTLETS TO ROADSIDE) (2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

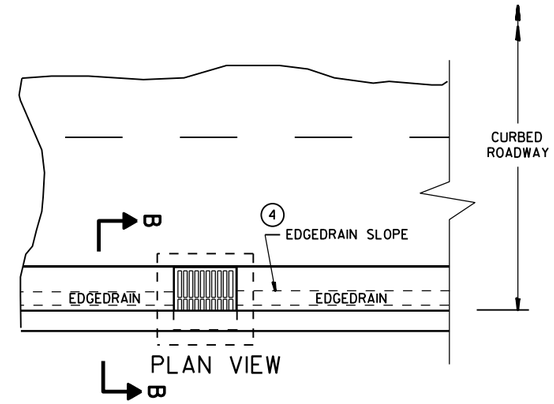
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION B-B

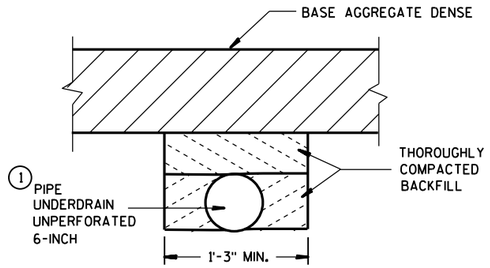
URBAN CROSS SECTION



PLAN VIEW

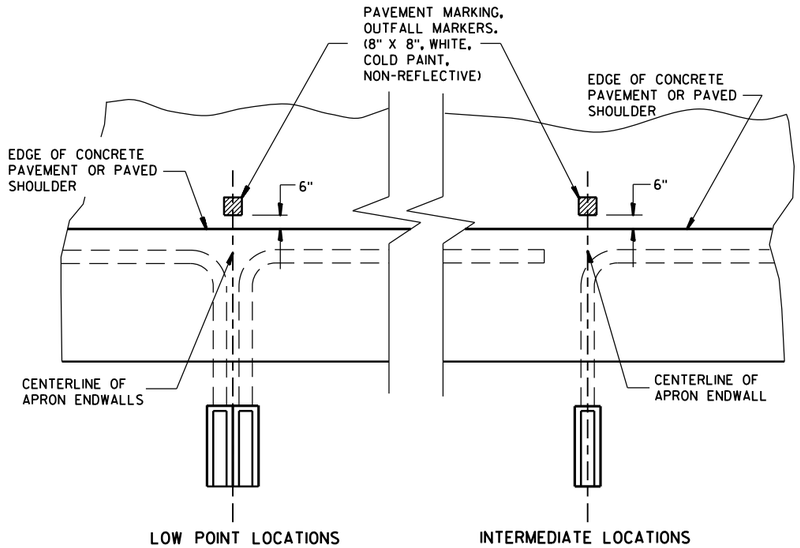
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



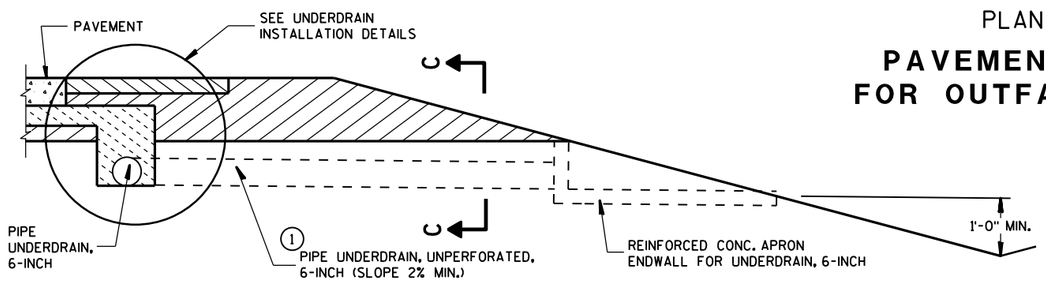
SECTION C-C

(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



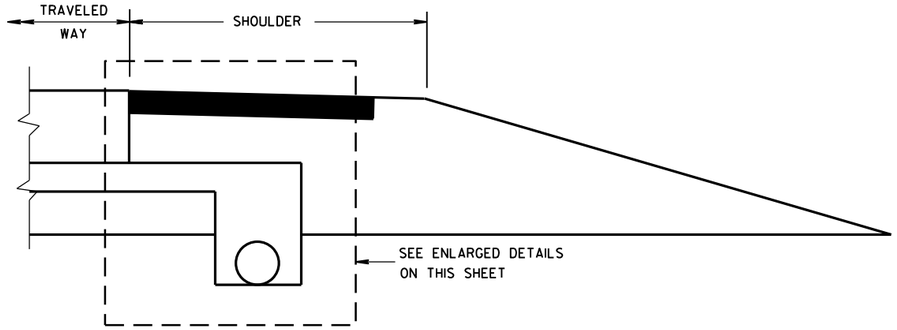
SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRAN

PRE_224



RURAL CROSS SECTION

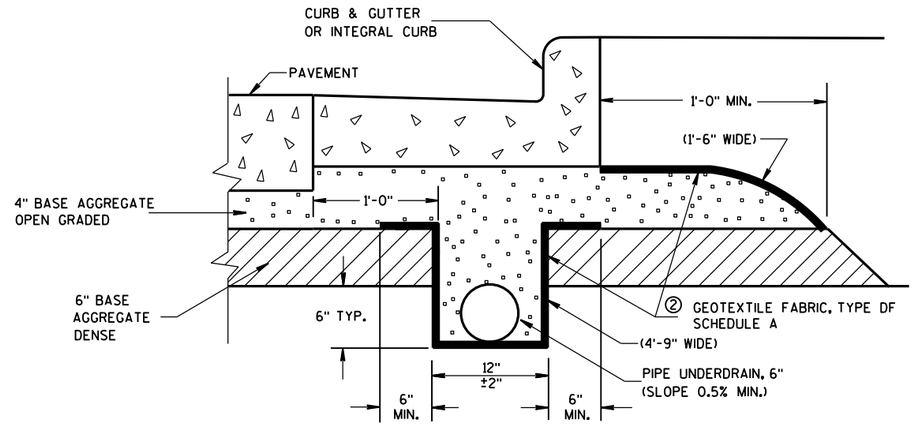
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

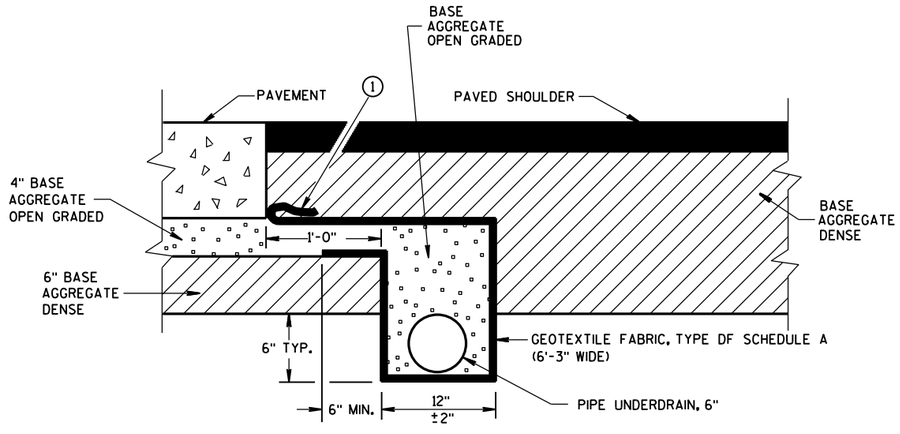
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

① FOLD OVER EXCESS GEOTEXTILE FABRIC AT THIS LOCATION.

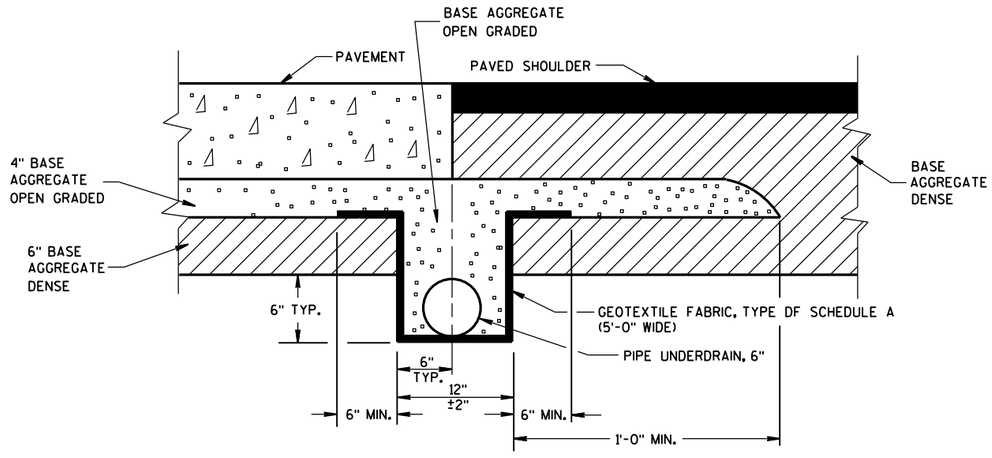
② TOTAL FABRIC WIDTH IS 6'-3" FOR PAYMENT.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATE

EDGEDRAIN IN RURAL ROADWAY

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT
FHWA

PRE_225

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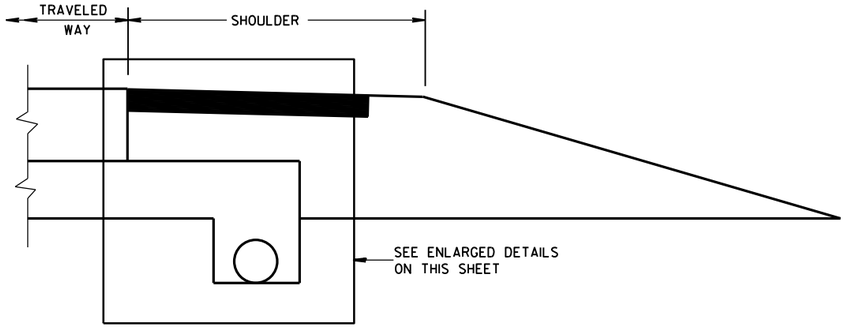
S.D.D. 8 D 15-5b

6

S.D.D. 8 D 15-5b

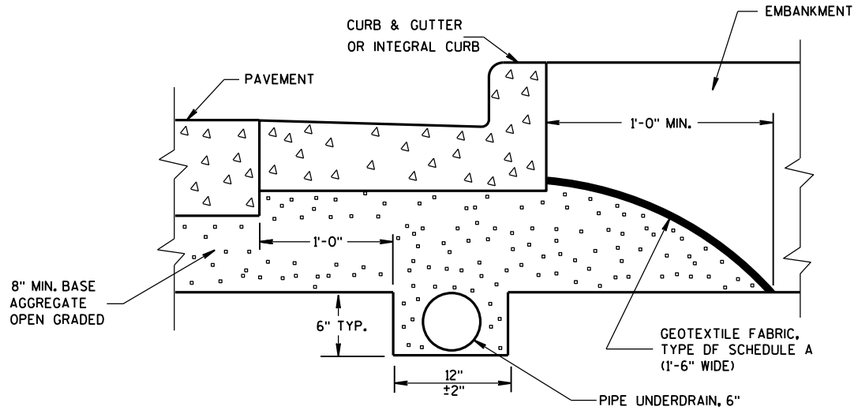


RURAL CROSS SECTION

GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.



EDGEDRAIN IN URBAN ROADWAY

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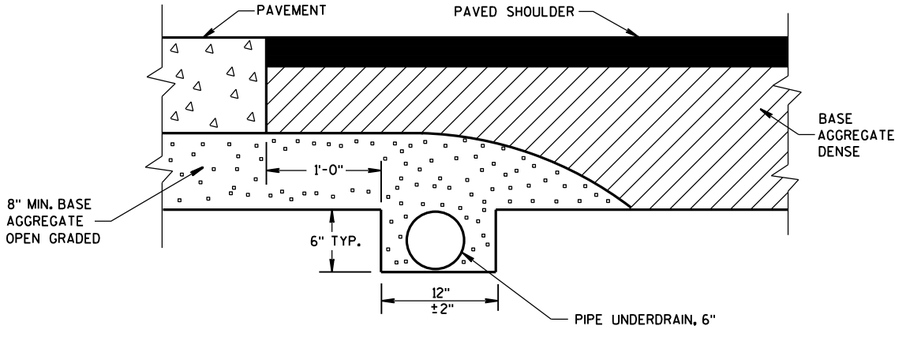
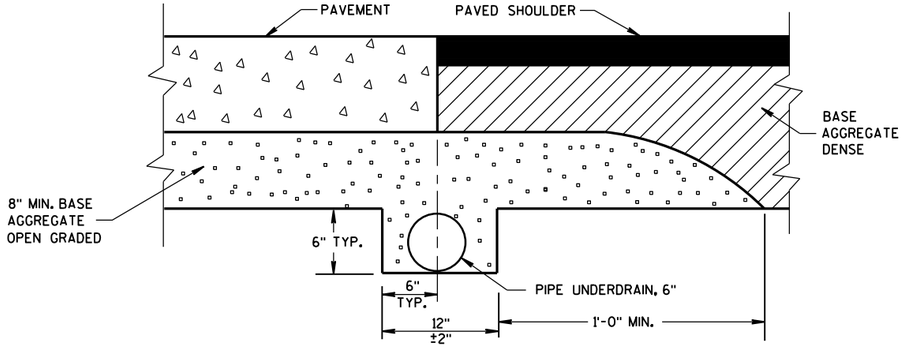


POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

6

S.D.D. 8 D 15-5c

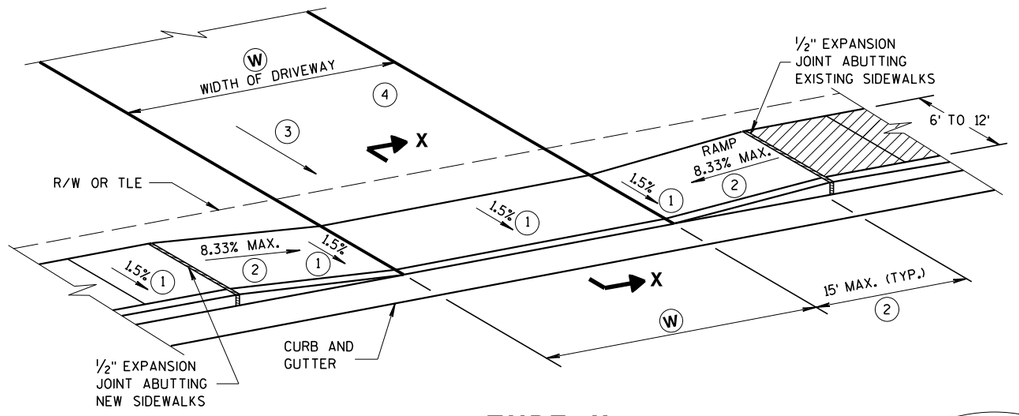
S.D.D. 8 D 15-5c

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

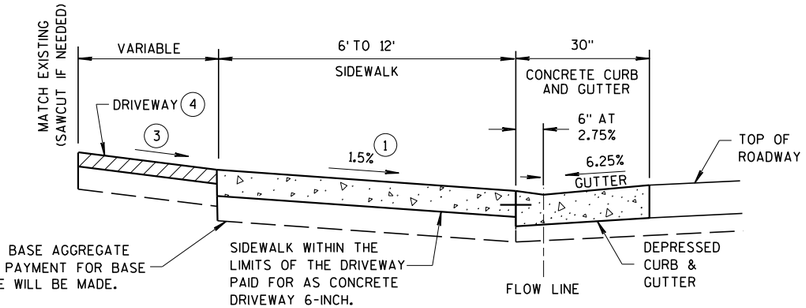
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT
FHWA

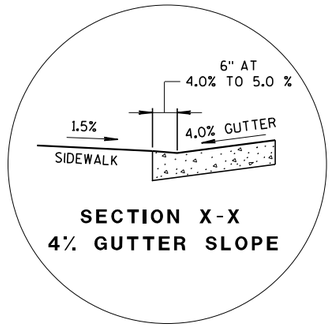
PRE_226



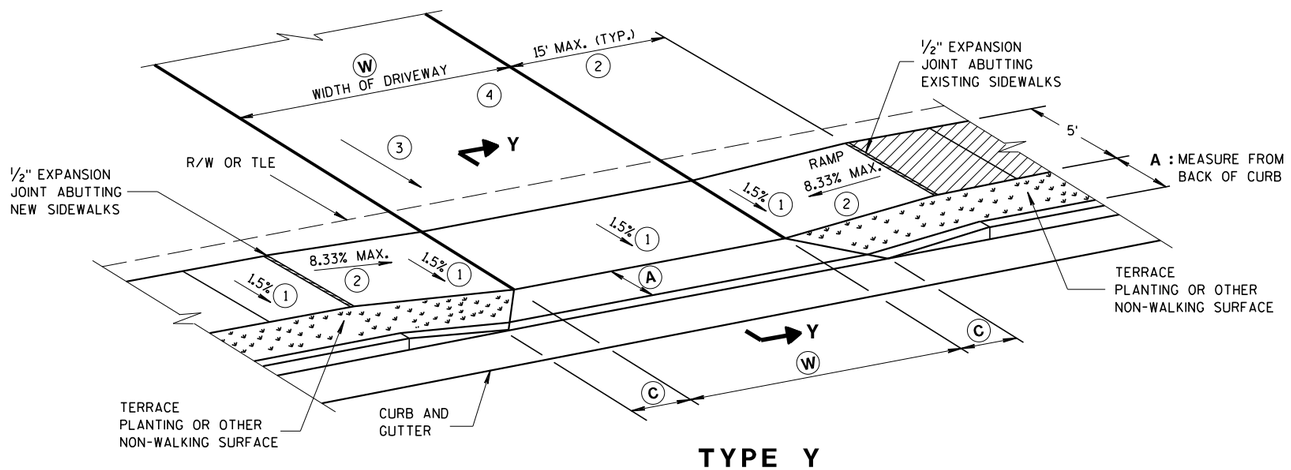
TYPE X
SIDEWALK ABUTS CURB & GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X-X



SECTION X-X
4% GUTTER SLOPE



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

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.

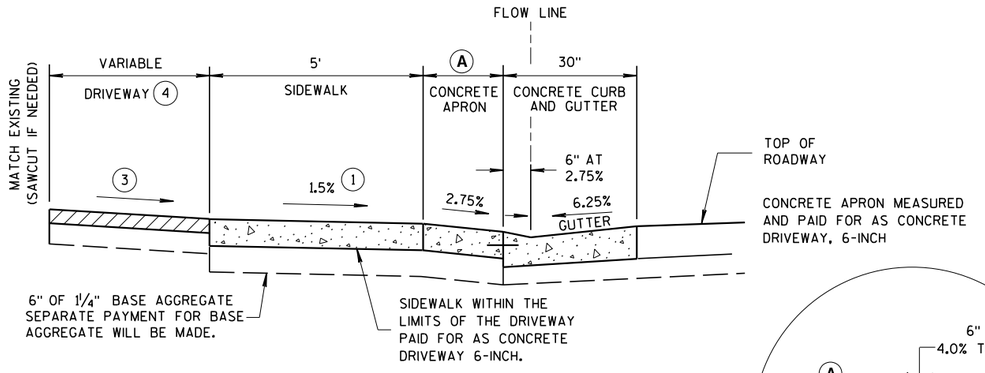
OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(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. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

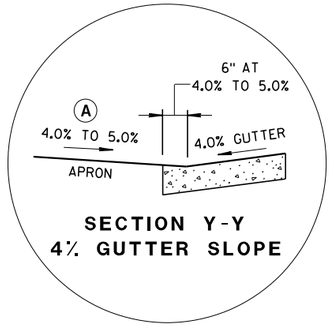
(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER
(URBAN AND SUBURBAN)



SECTION Y-Y
4% GUTTER SLOPE

TABLE Y

(A) FEET	(C) FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS
TYPES X & Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

6

S.D.D. 8 D 18-2

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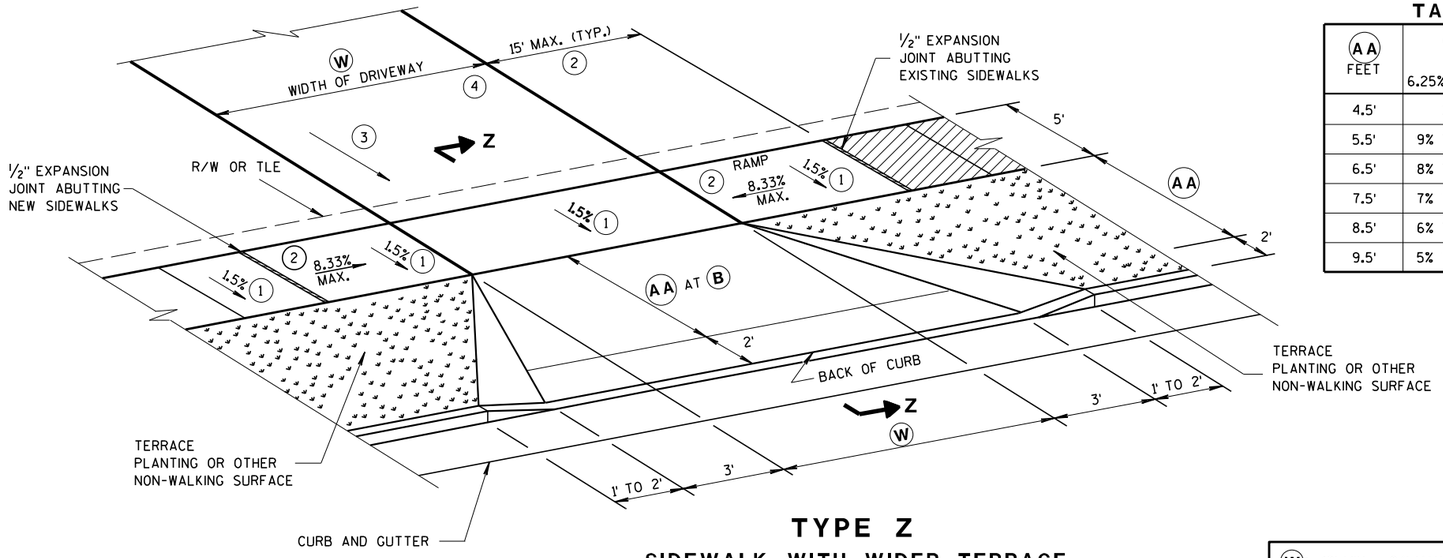
S.D.D. 8 D 18-2



TYPE Z

SIDEWALK WITH WIDER TERRACE

TERRACE VARIES 7 TO 12 FEET

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)

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.

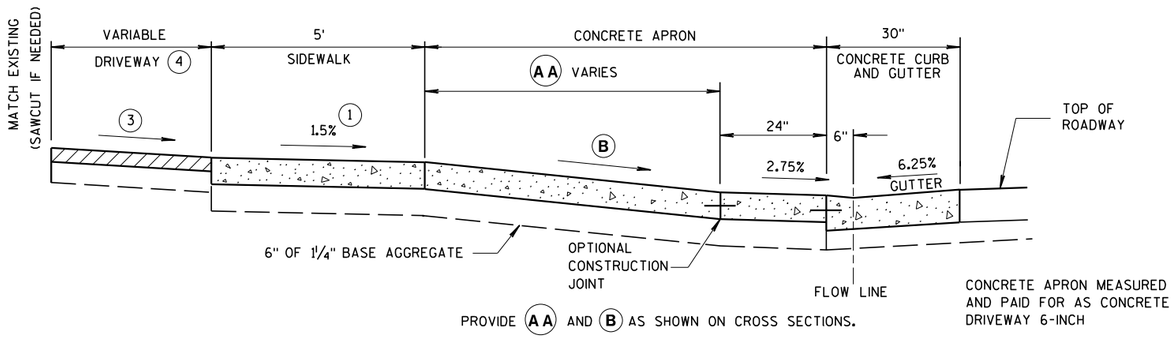
OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

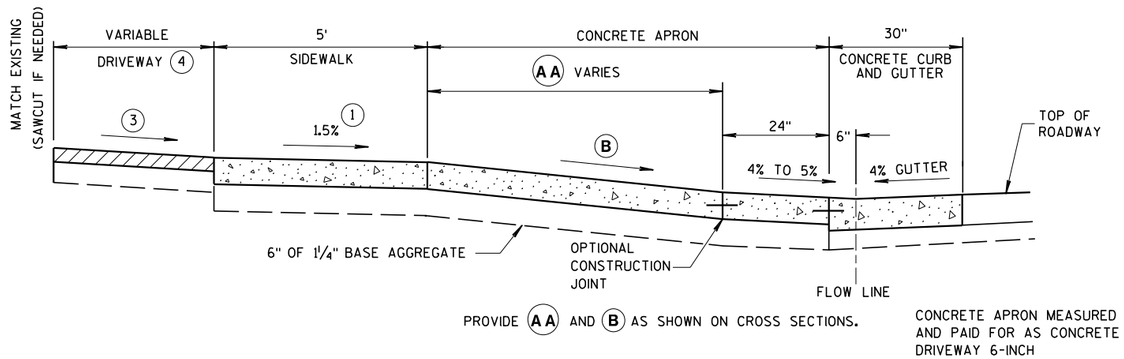
(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL 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)



6.25% GUTTER SLOPE



4% GUTTER SLOPE

NOTE: SIDEWALK MAY 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 & GUTTER

(URBAN AND SUBURBAN)

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

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S.D.D. 8 D 19-2

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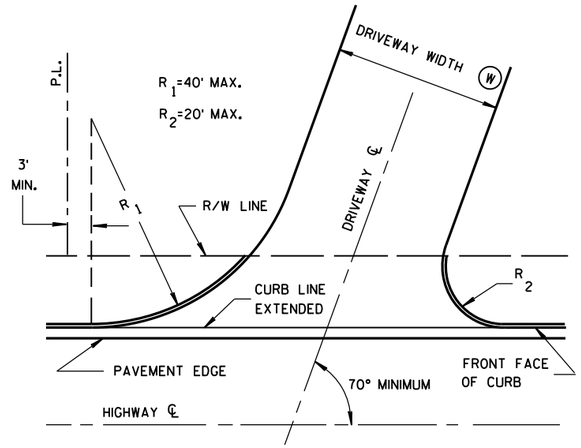
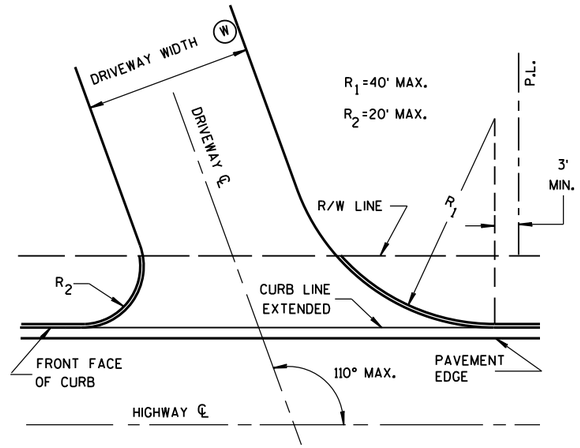
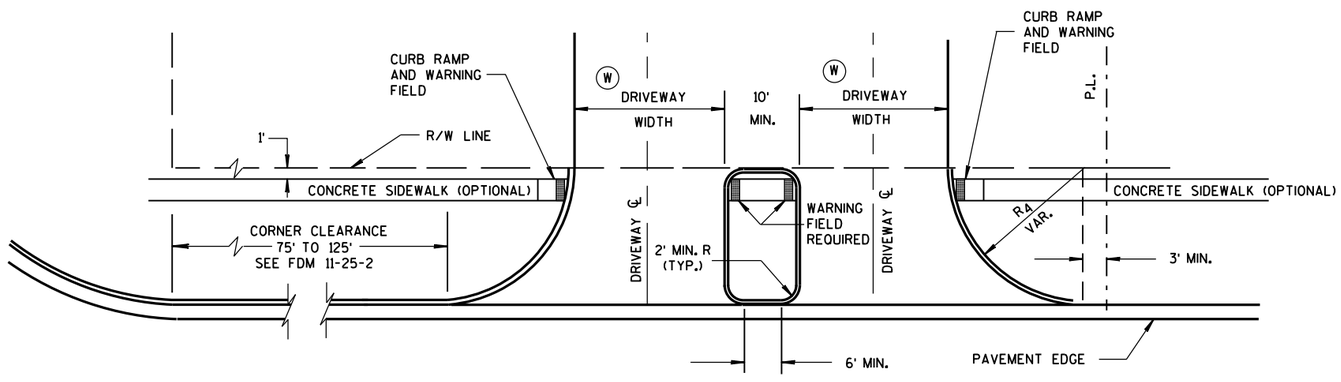
S.D.D. 8 D 19-2





SKEWED DRIVEWAY DETAILS
(COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN



DRIVEWAY LOCATION AND SPACING DETAILS

SIDEWALK SHOWN

NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

Ⓦ DRIVEWAY WIDTHS:

COMMERCIAL - 35' MAX., 16' MIN.

RESIDENTIAL AND NON-COMMERCIAL - 24' MAX., 12' MIN.

DRIVEWAYS WITH CURB & GUTTER RETURNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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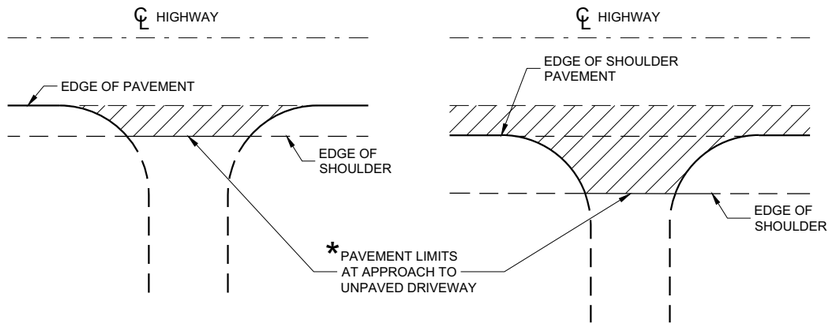
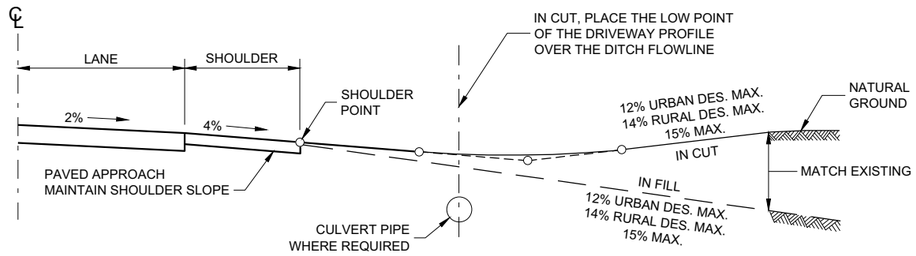
S.D.D. 8 D 20-1



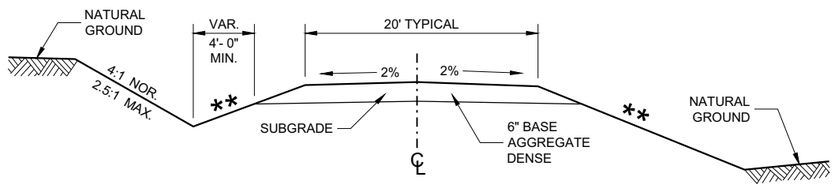
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

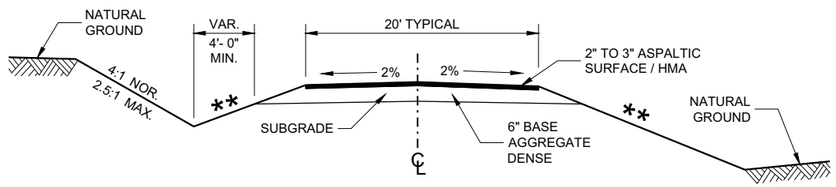


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPER

FHWA

PRE_230

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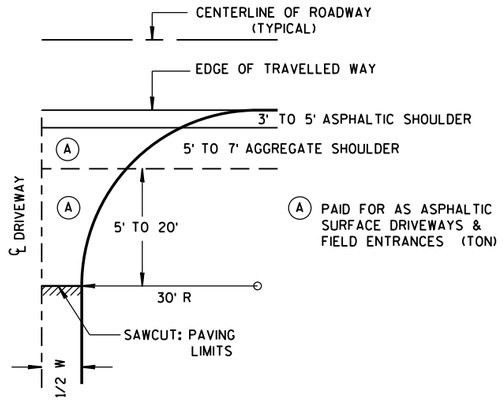
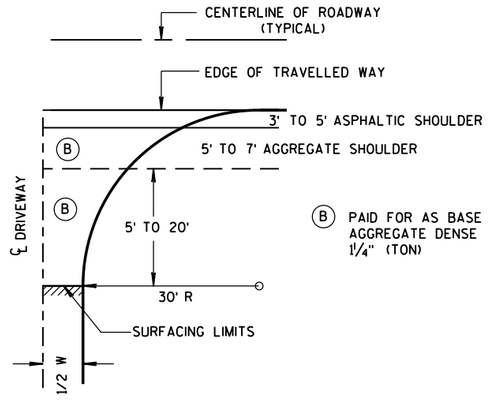
SDD 08D21 - 01



PLAN VIEW
HALF SECTION

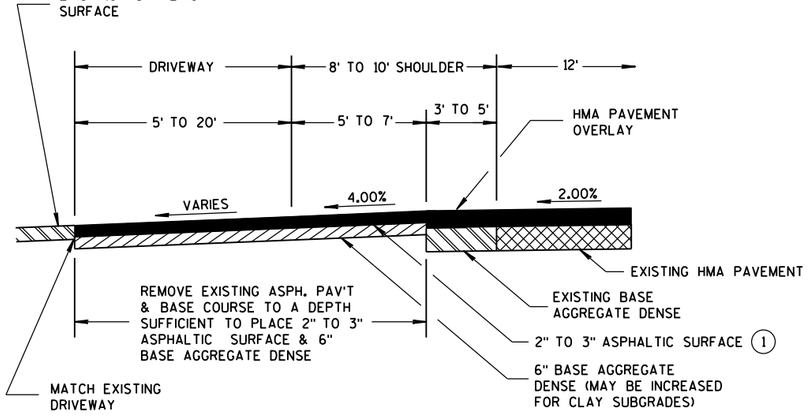
W MIN. = 16'
W MAX. = 24'



PLAN VIEW
HALF SECTION

GENERAL NOTES

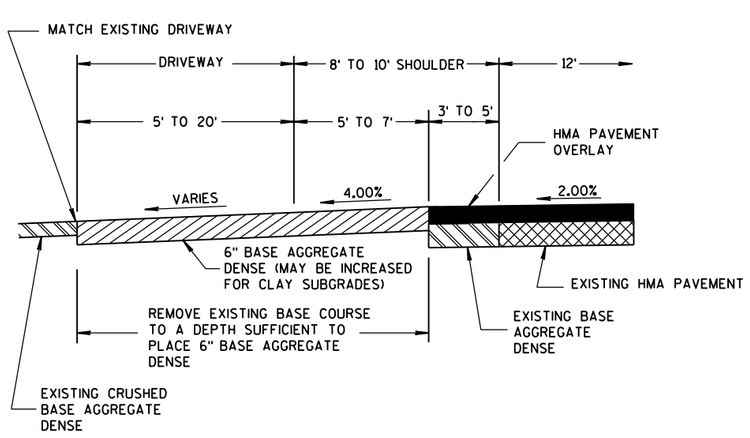
(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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S.D.D. 8 D 22-1

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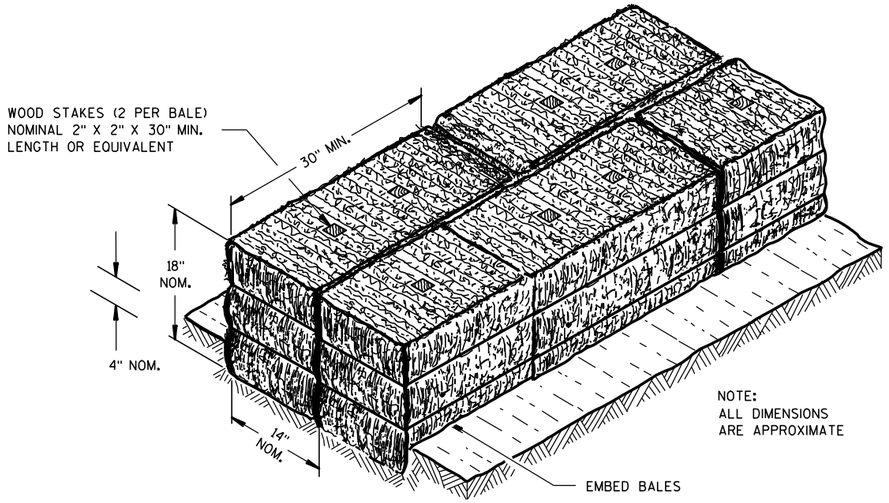
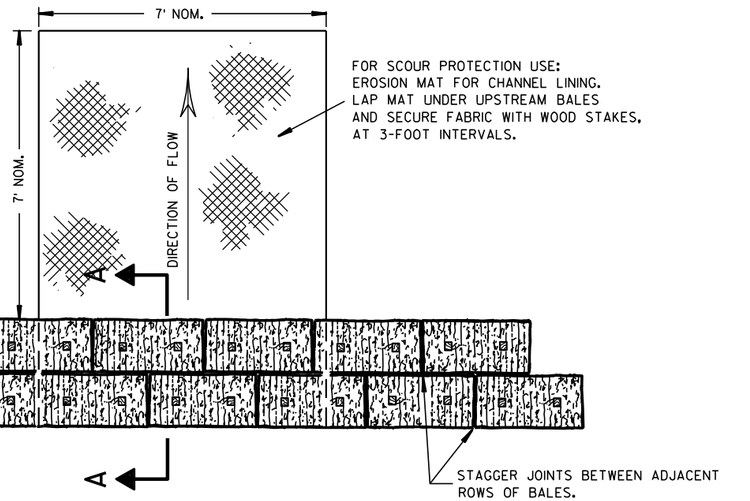
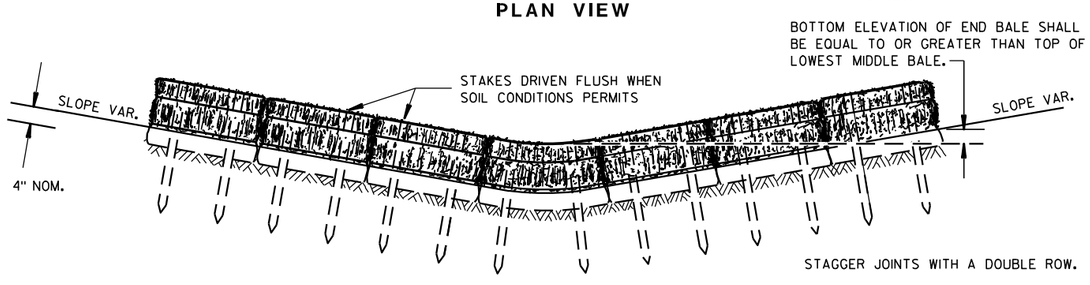


SECTION A-A



PLAN VIEW



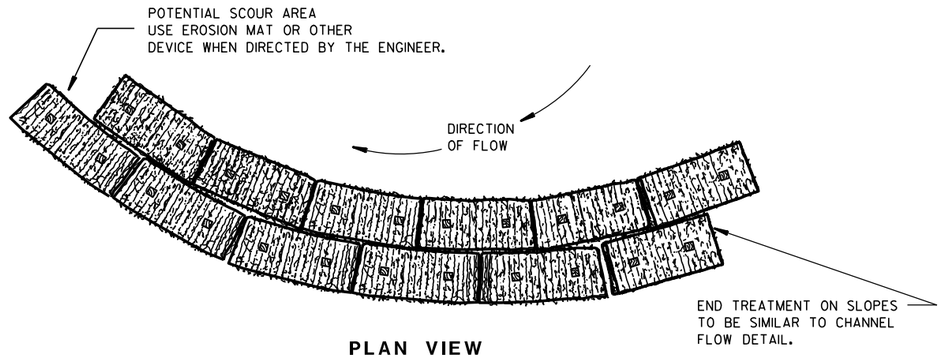
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

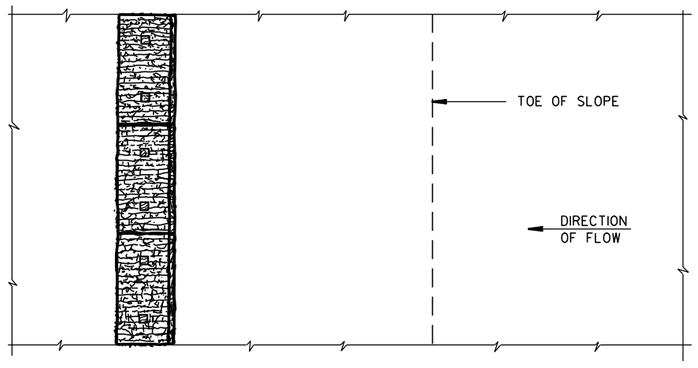
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

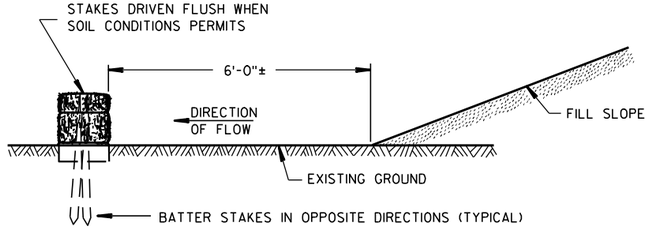


PLAN VIEW

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 [illegible] CHIEF ROADWAY DESIGNER

FHWA

PRE_232

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S.D.D. 8 E 8-3

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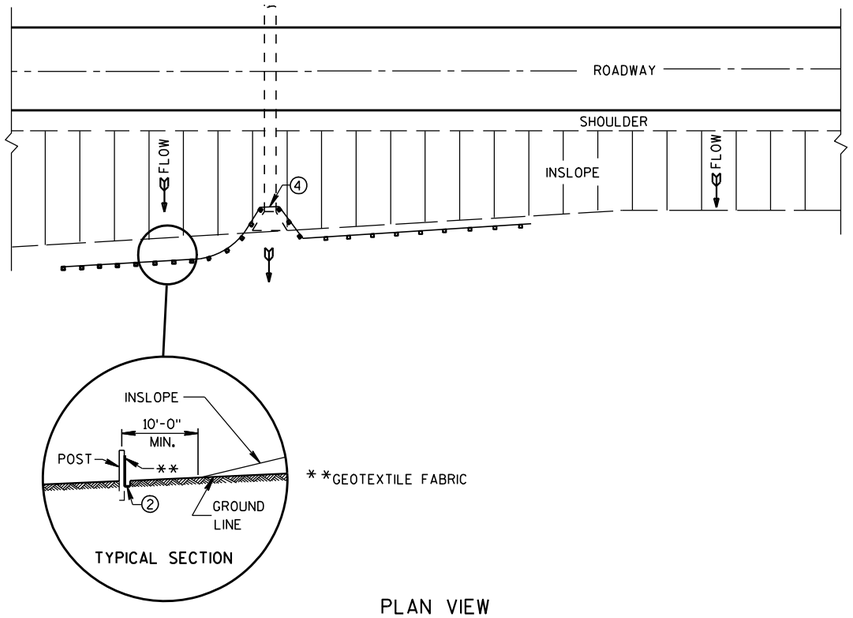
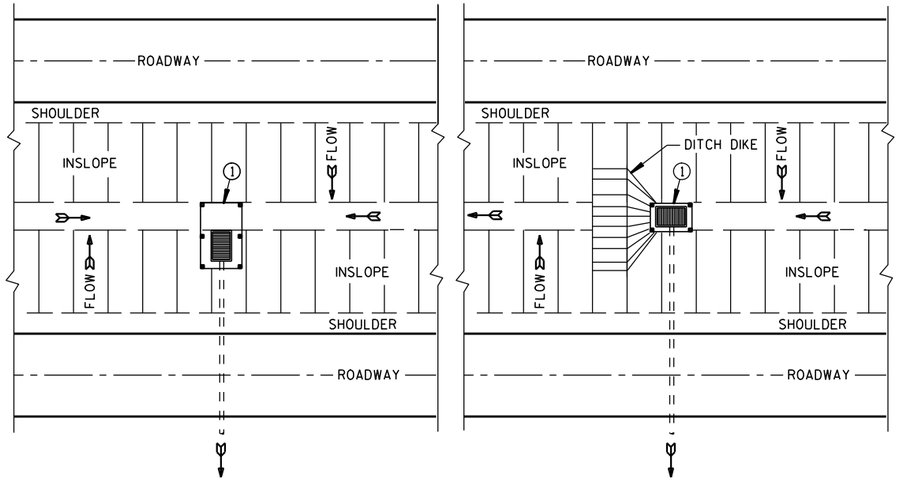
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



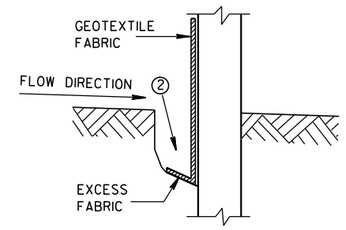
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

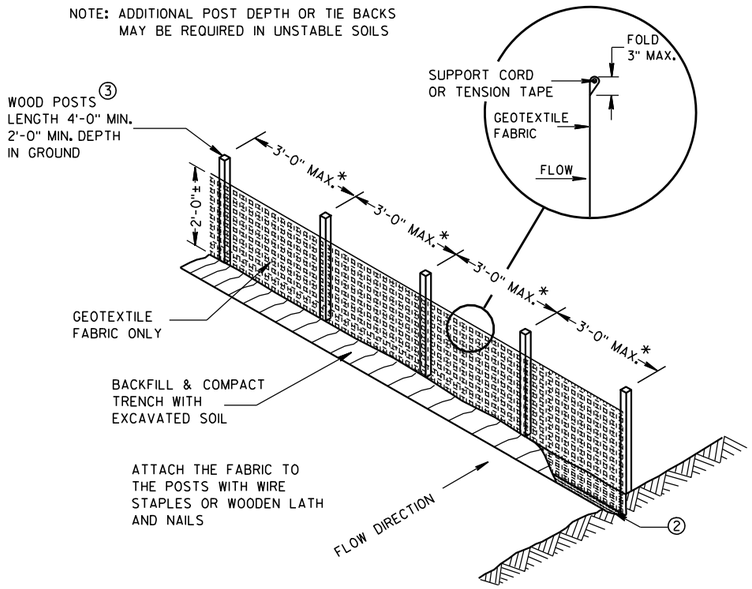
GENERAL NOTES

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

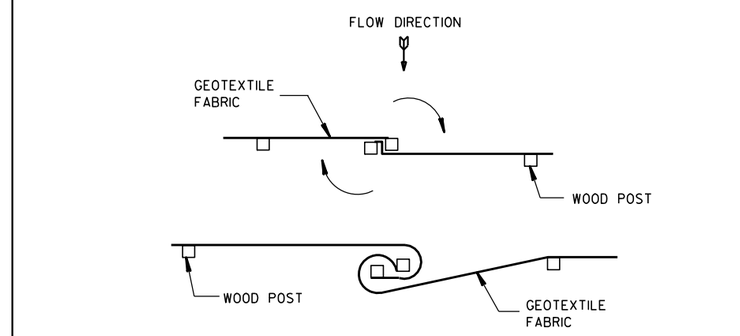
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



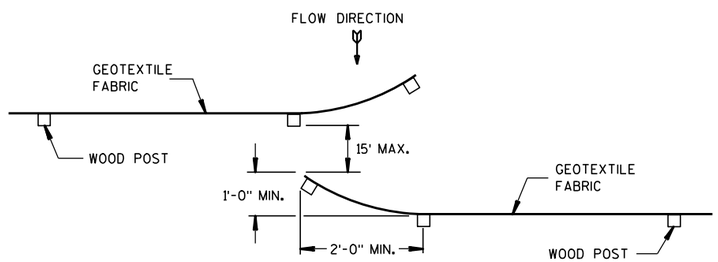
TRENCH DETAIL



SILT FENCE

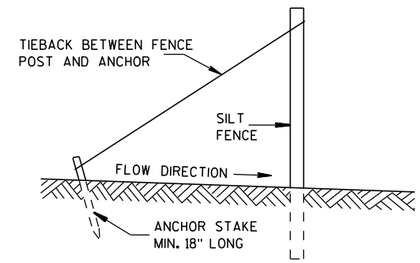


TWIST METHOD



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 C[illegible]
CHIEF ROADWAY DE[illegible]NEER
FHWA

PRE_233

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S.D.D. 8 E 9-6

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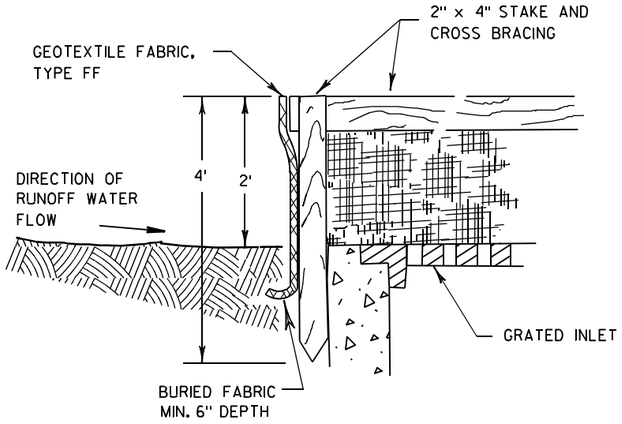
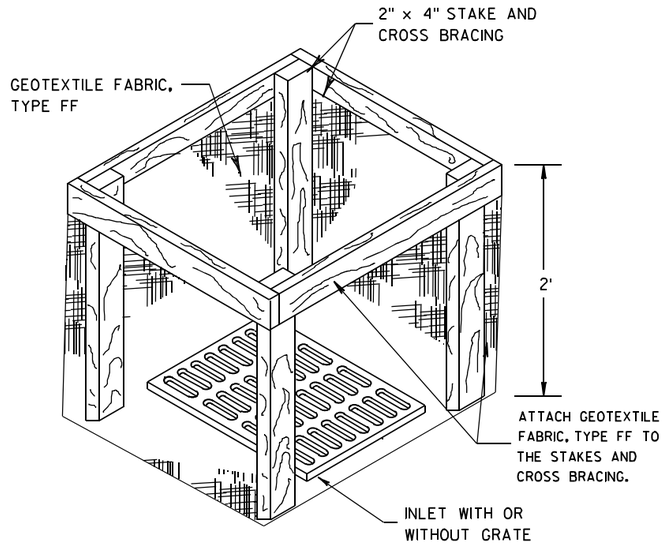
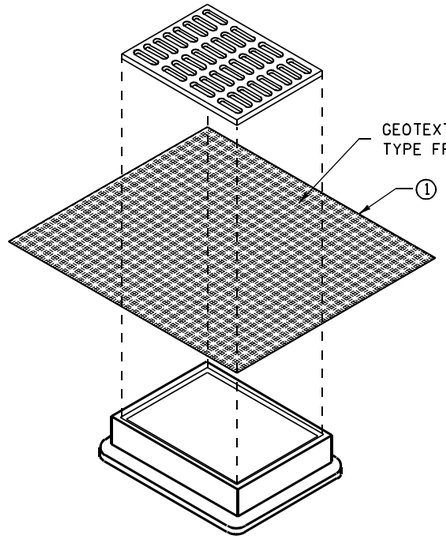
S.D.D. 8 E 9-6



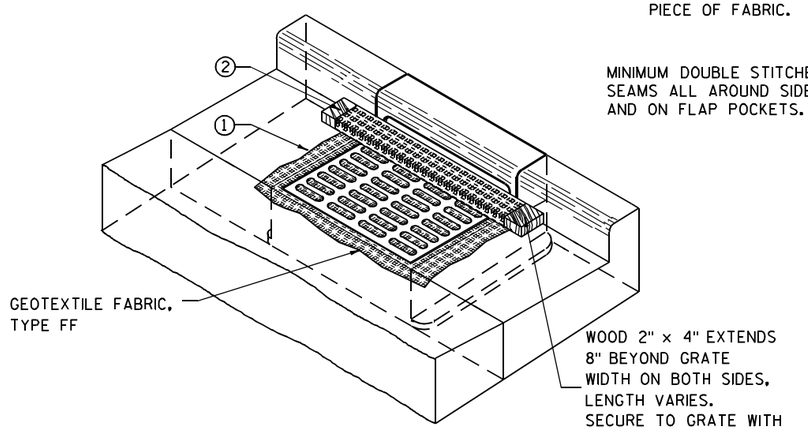


INLET PROTECTION, TYPE A

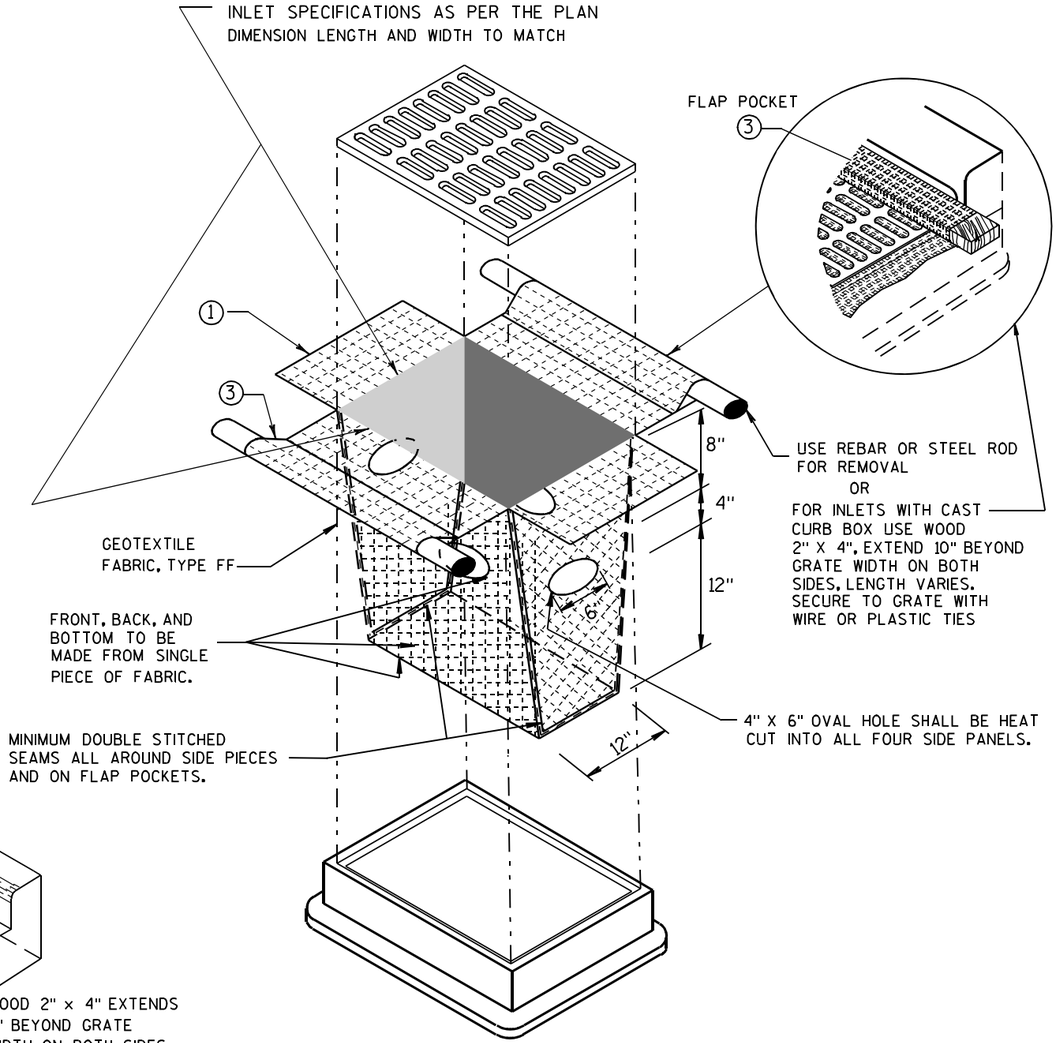


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth C[illegible]
CHIEF ROADWAY DEVE[illegible] ENGINEER

FHWA

PRE_234

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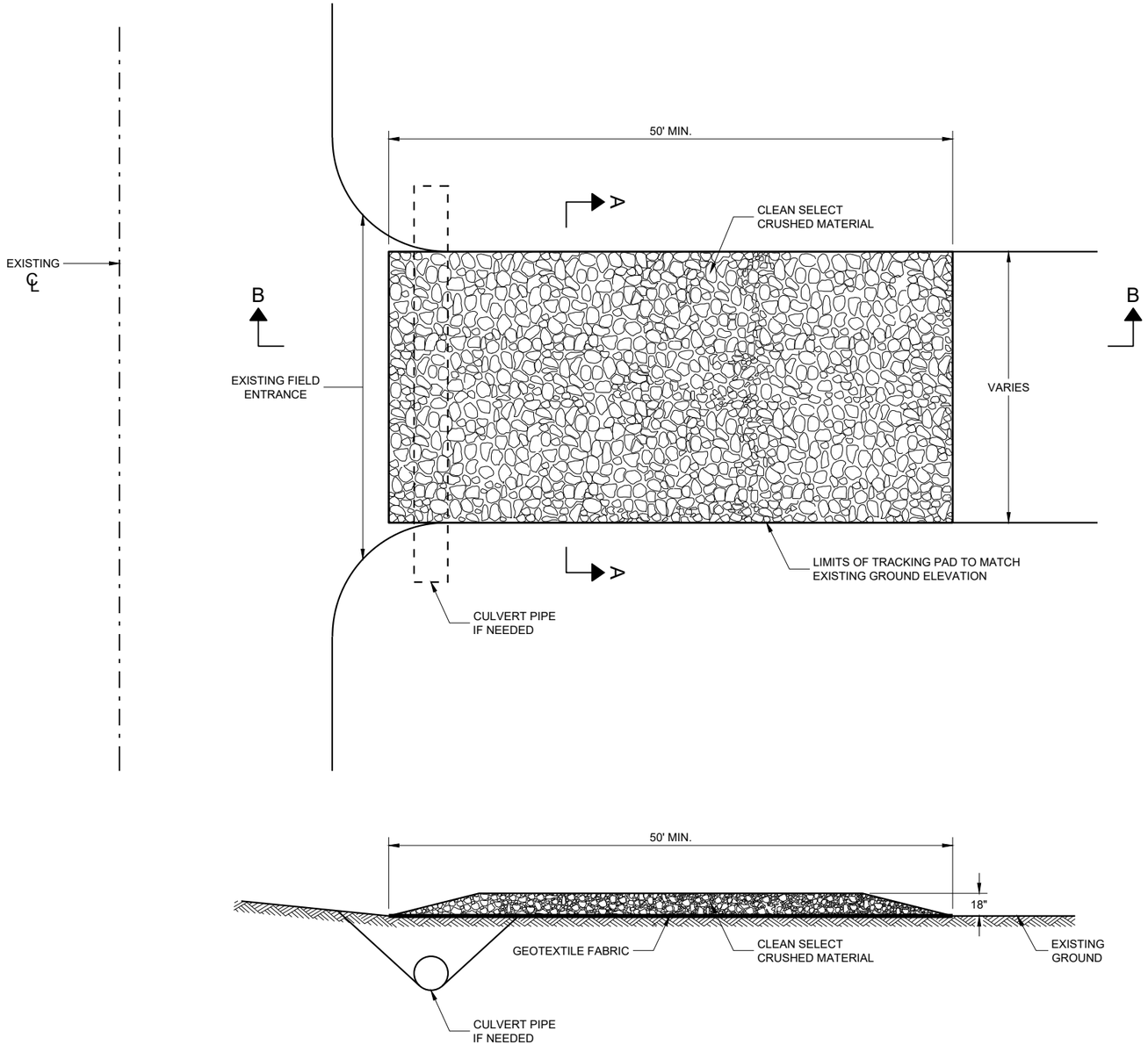
S.D.D. 8 E 10-2



SECTION B - B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

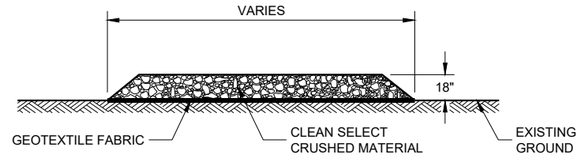
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011
DATE

/S/ Jerry H. Zoaa
ROADWAY STANDARDS ENGINEE

FHWA

PRE_235

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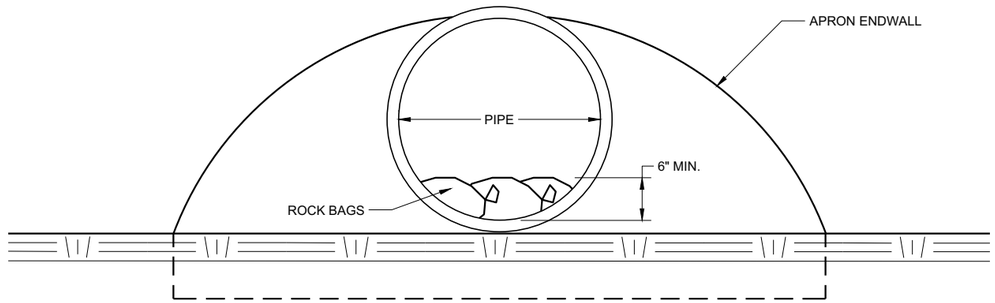
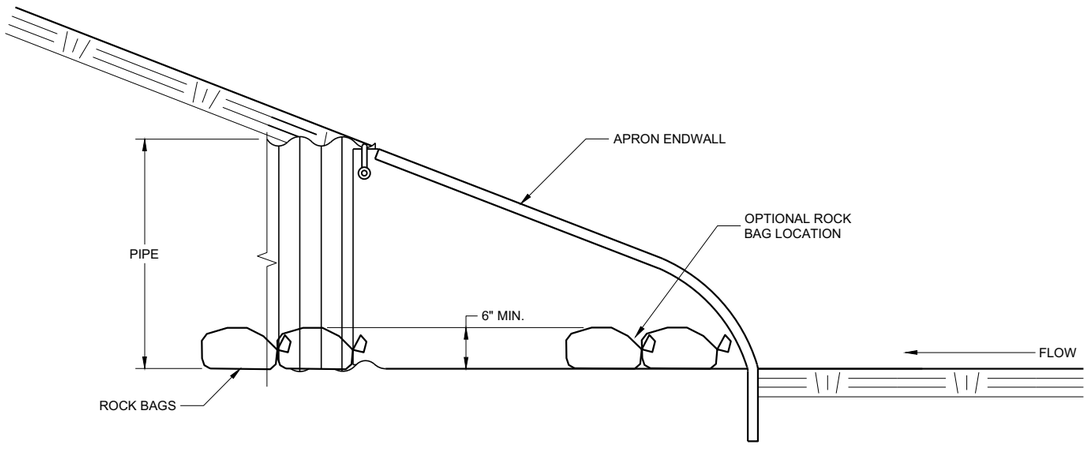
SDD 08E14 - 01



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 CONTRO

FHWA

PRE_236

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

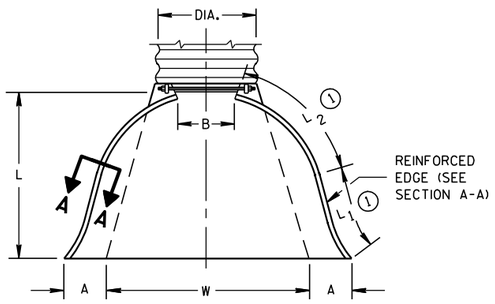
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

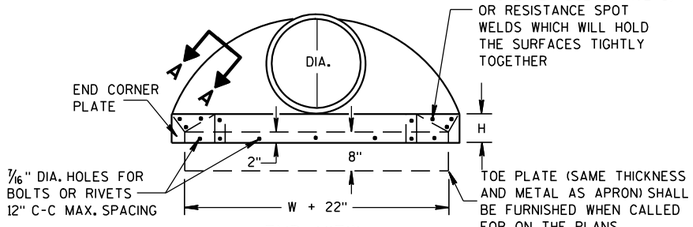
REINFORCED CONCRETE APRON ENDWALLS

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

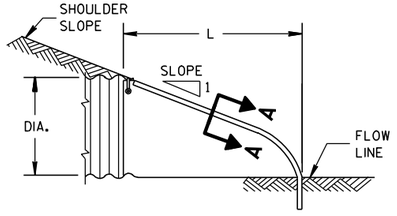
*MINIMUM
**MAXIMUM



PLAN VIEW

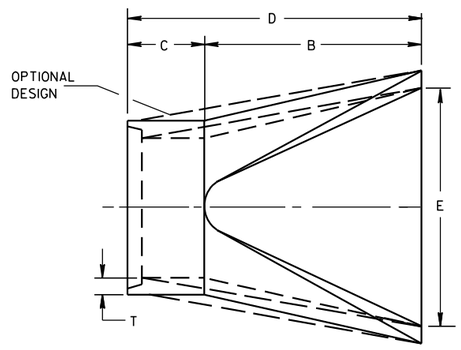


END VIEW

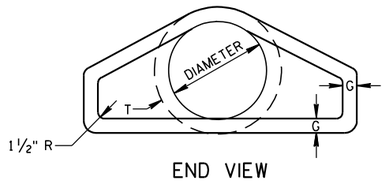


SIDE ELEVATION

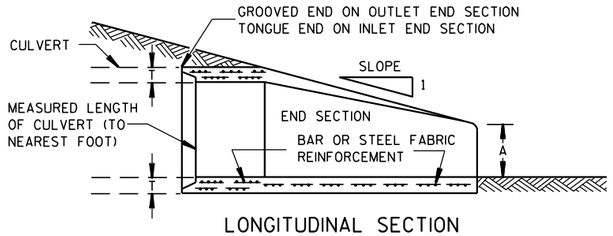
METAL ENDWALLS



PLAN

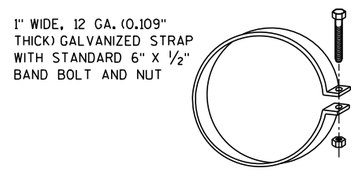


END VIEW



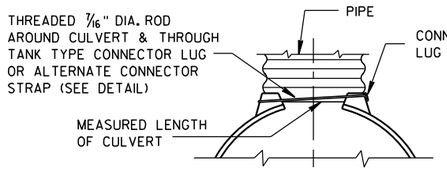
LONGITUDINAL SECTION

CONCRETE ENDWALLS

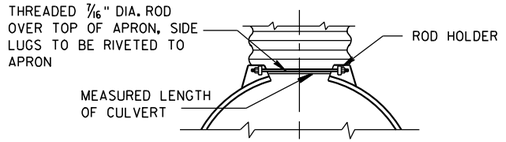


ALTERNATE FOR TYPE 1 CONNECTION

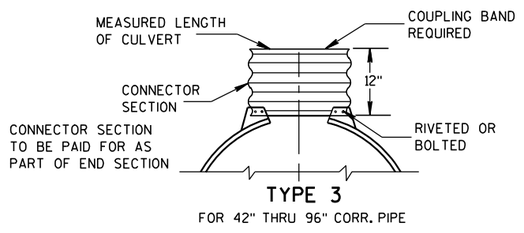
END SECTION CONNECTOR STRAP



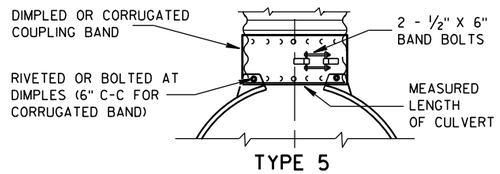
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

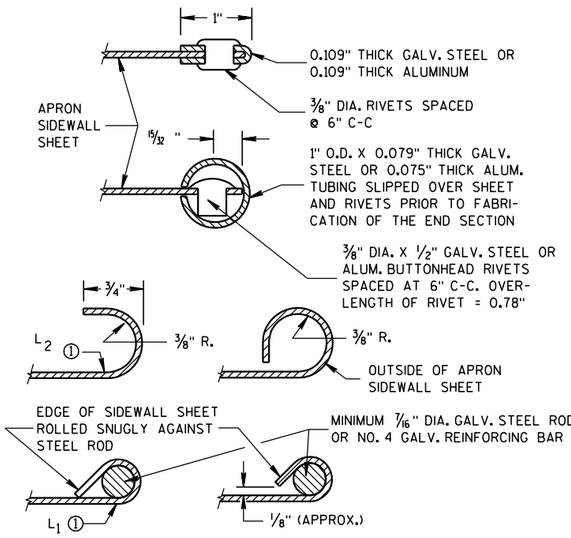
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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. [illegible] CHIEF ROADWAY DE[illegible] EER
FHWA

PRE_237

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S.D.D. 8 F 1-11

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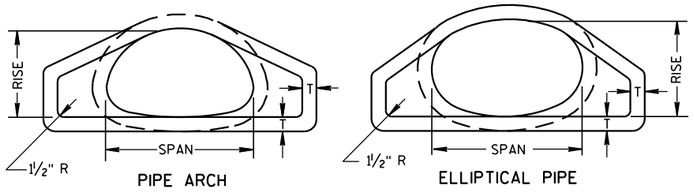
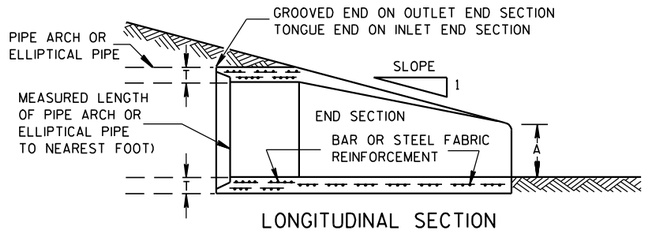
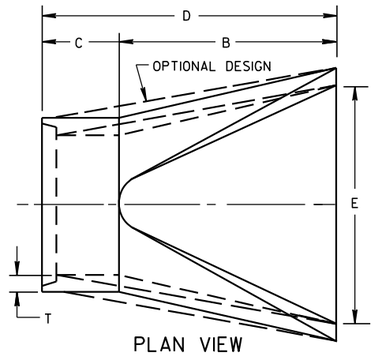
S.D.D. 8 F 1-11



END VIEW

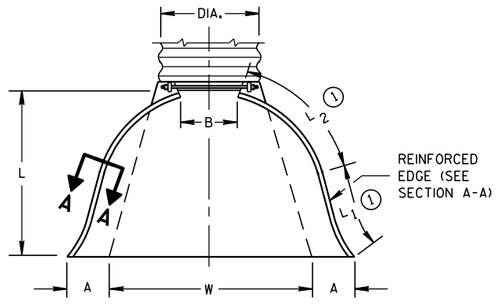


LONGITUDINAL SECTION

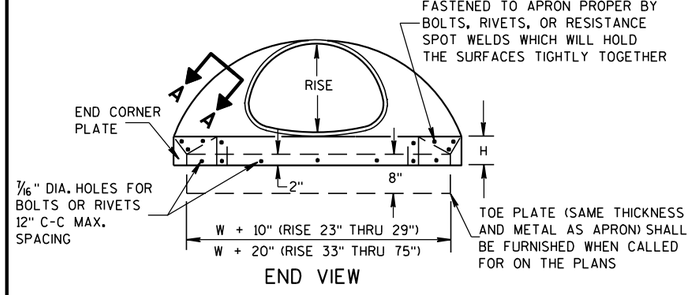


PLAN VIEW

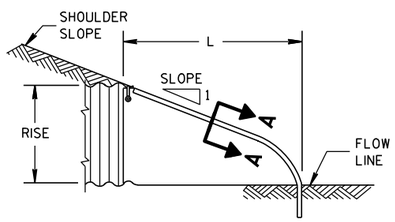
CONCRETE ENDWALLS



PLAN VIEW

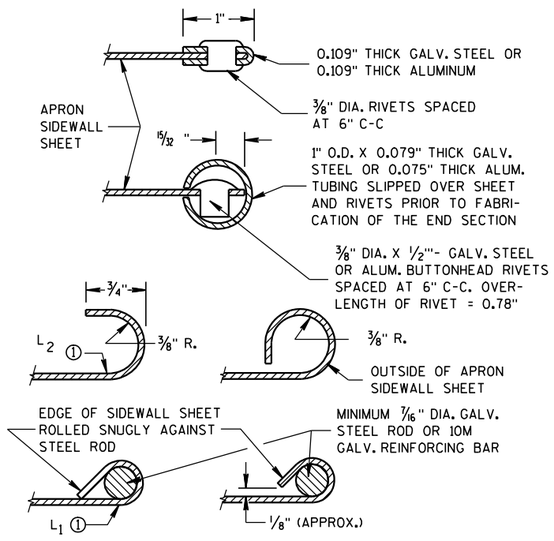


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

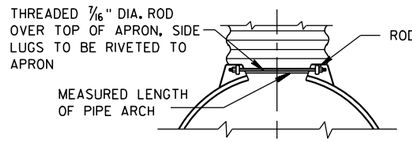
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

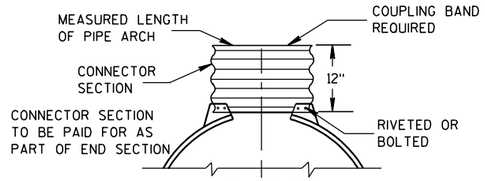
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



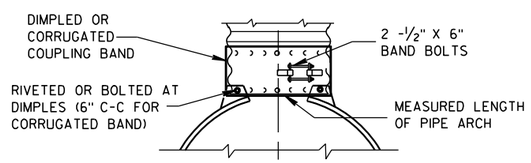
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

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 APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH 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 ARCH 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 77" X 52" THROUGH 112" X 75" 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 ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. [illegible] — CHIEF ROADWAY DE[illegible]INEER

FHWA

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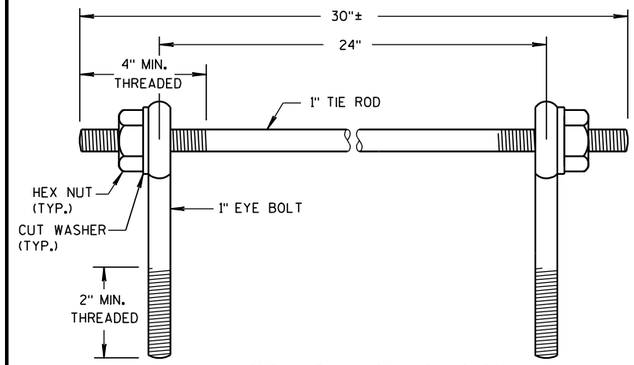
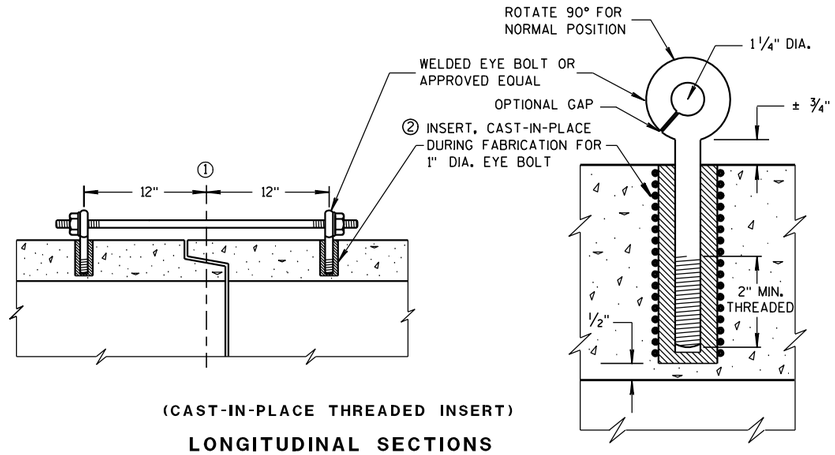


EYE BOLTS AND TIE ROD



(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 ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

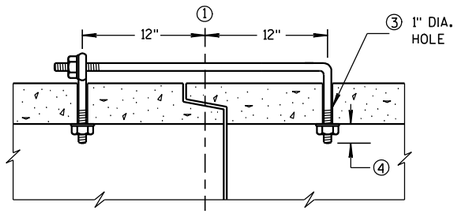
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

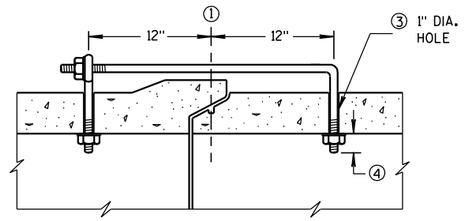
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

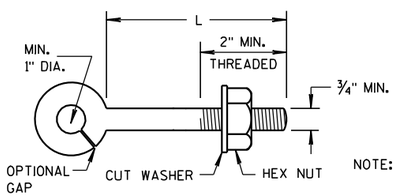


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

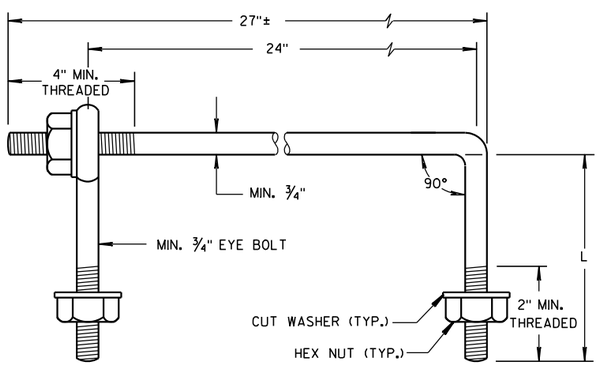
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

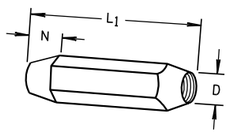
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



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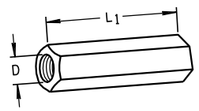
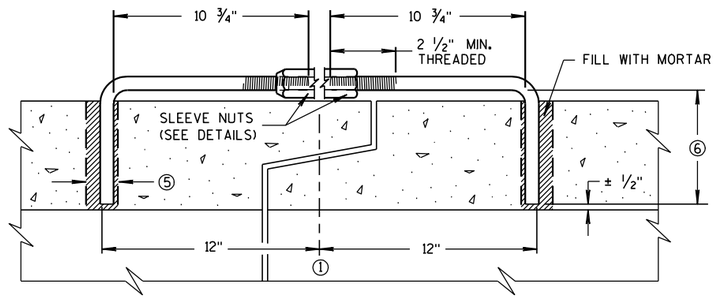


PLAIN

RIGHT AND LEFT THREADS

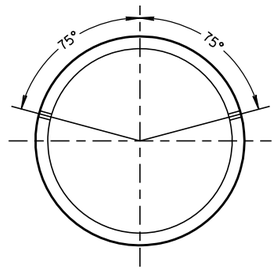
SLEEVE NUTS



LONGITUDINAL SECTION

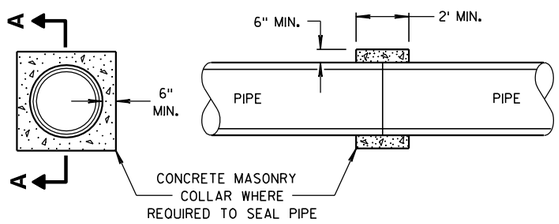
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

PRE_239

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S.D.D. 8 F 4-7

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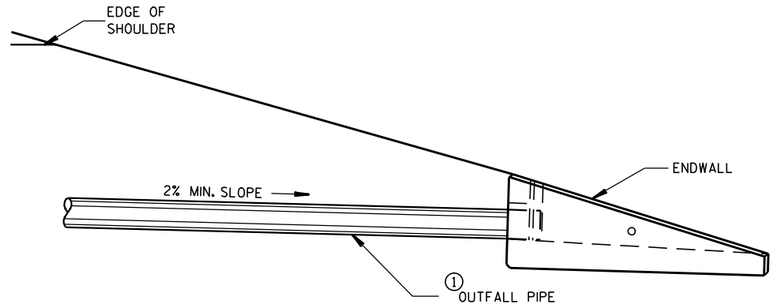
S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION 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.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

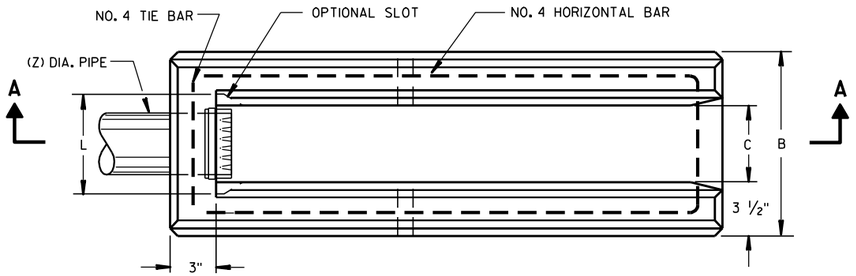
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

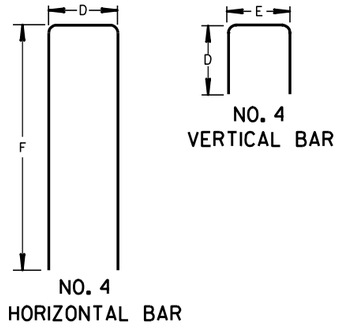
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

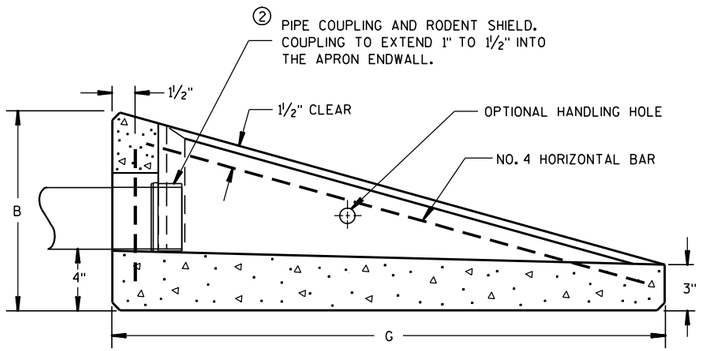
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



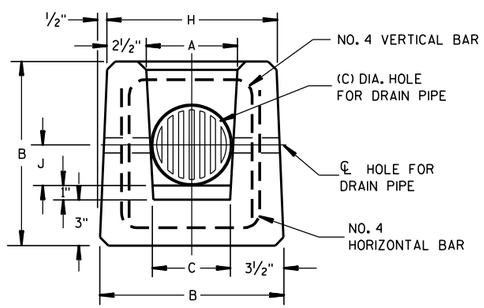
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

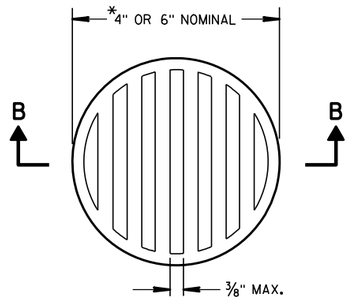


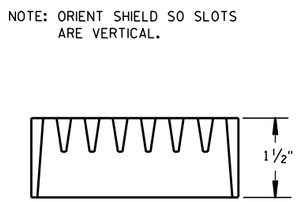
SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN





SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. [illegible]
CHIEF ROADWAY DEV [illegible] IEER
FHWA

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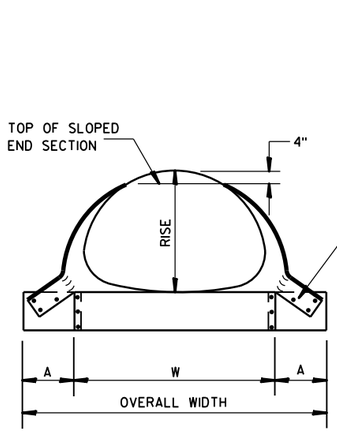
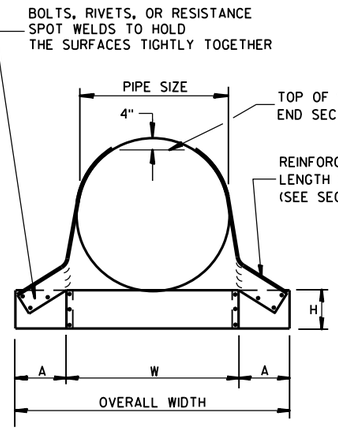
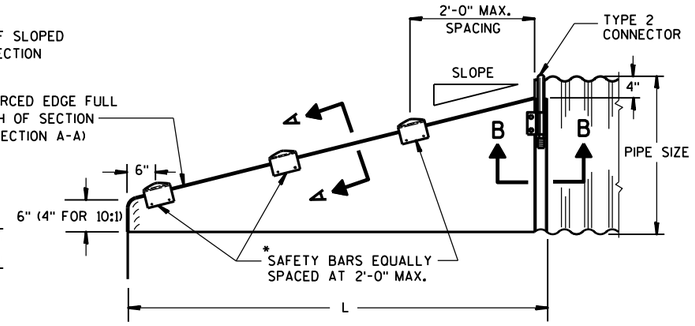


FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

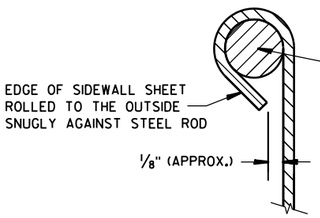
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS

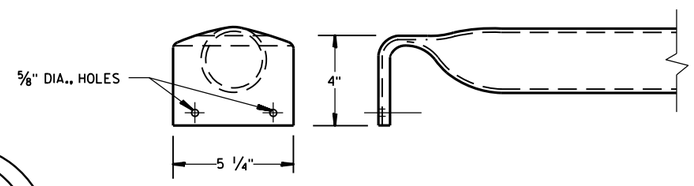
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

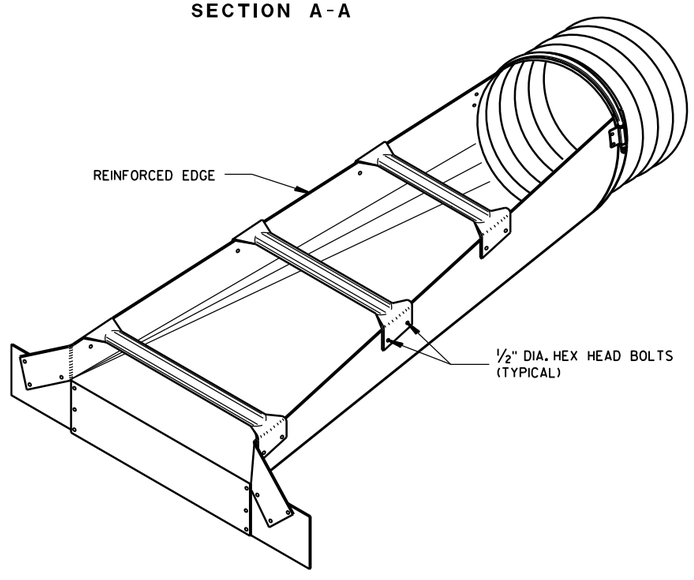


DETAIL OF SAFETY BAR

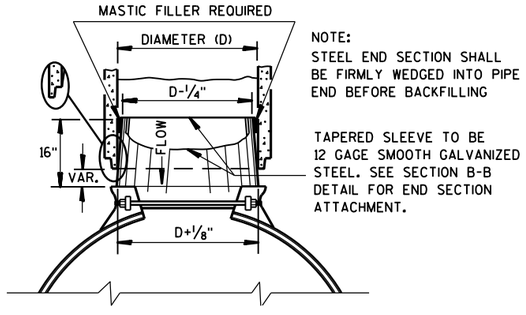
STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

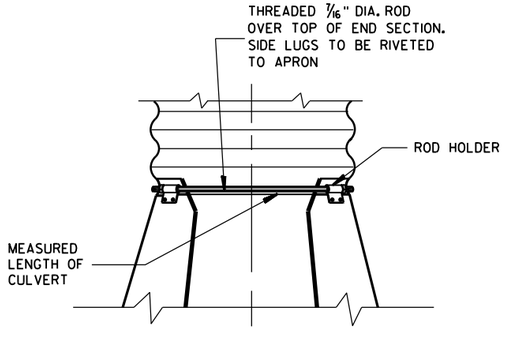
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



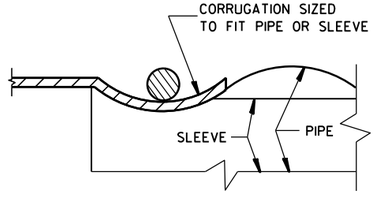
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

PRE_241

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S.D.D. 8 F 7-5

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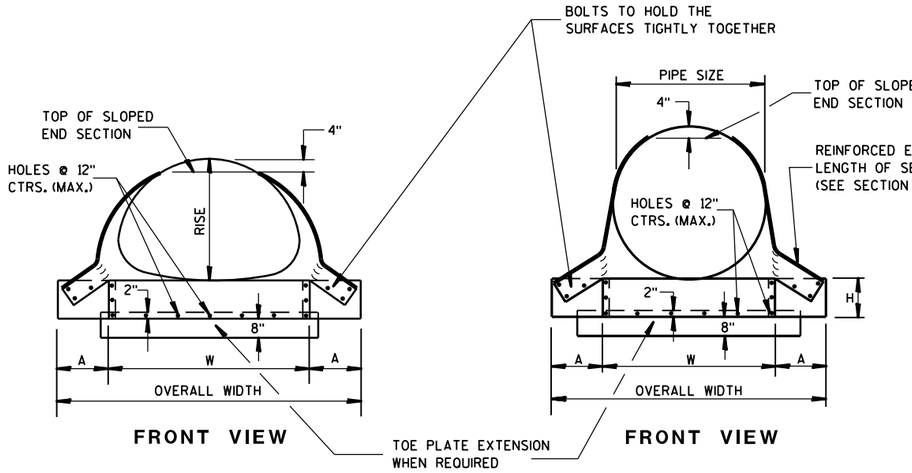
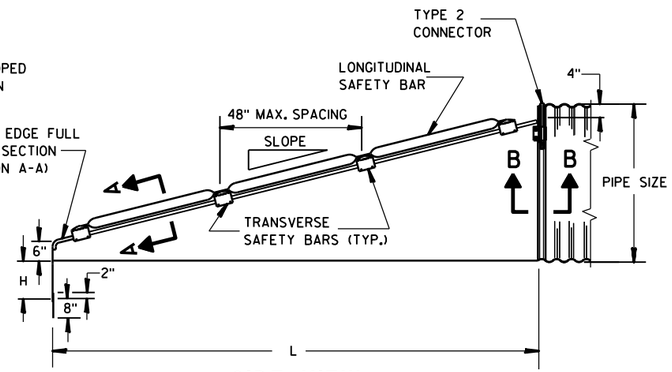
S.D.D. 8 F 7-5



FRONT VIEW

FRONT VIEW



SIDE VIEW
(48" SIZE ILLUSTRATED)

GENERAL NOTES

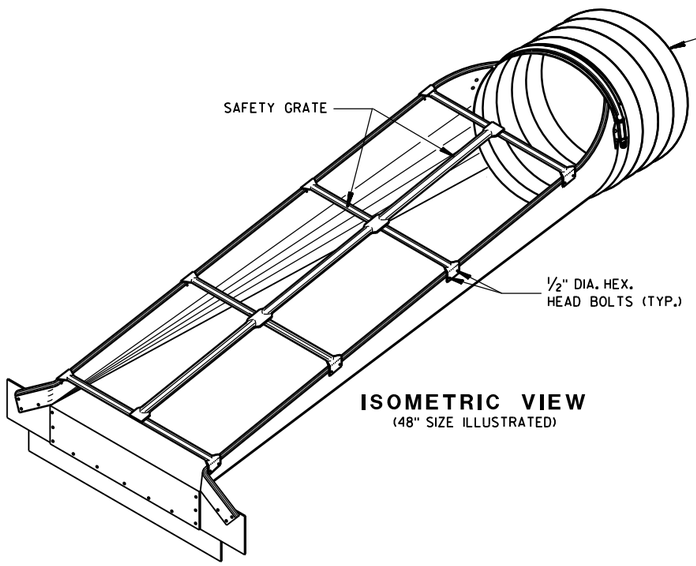
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SAFETY GRATES SHALL BE FABRICATED FROM 3-INCH DIAMETER GALVANIZED PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL. THE LONGITUDINAL BAR SHALL BE WELDED TO THE TRANSVERSE BARS WHERE THE BARS CROSS. THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

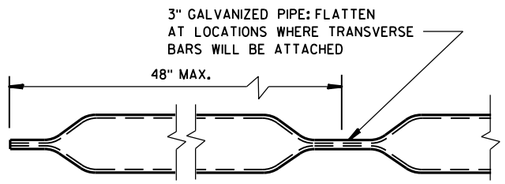
SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

STEEL APRON ENDWALLS FOR CULVERT PIPE CROSS DRAINS

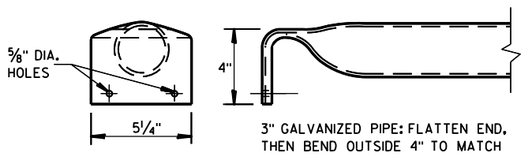
PIPE DIA. (IN.)	MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228
54	.109	12	16	12	60	92	4:1	176	6:1	264
60	.109	12	16	12	66	98	4:1	200	6:1	300



ISOMETRIC VIEW
(48" SIZE ILLUSTRATED)



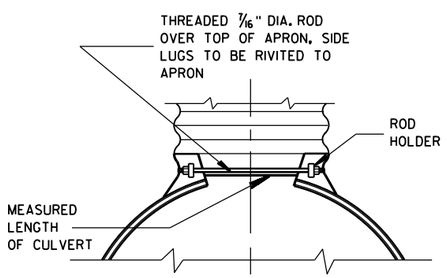
LONGITUDINAL SAFETY BAR



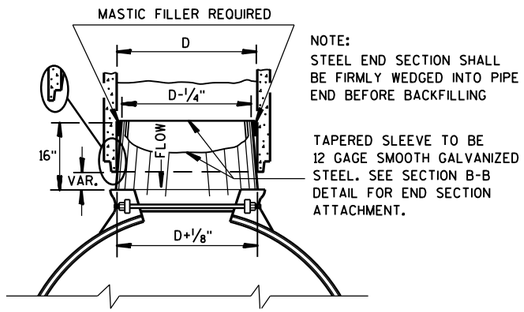
TRANSVERSE SAFETY BAR

STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS

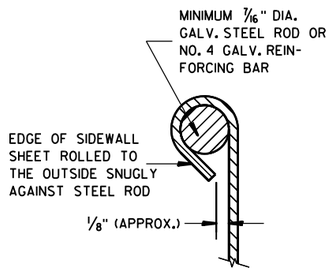
EQUIV. DIA. (IN.)	INCHES		MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	12	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	12	16	12	70	102	4:1	132	6:1	198
60	71	47	.109	12	16	12	77	109	4:1	148	6:1	222



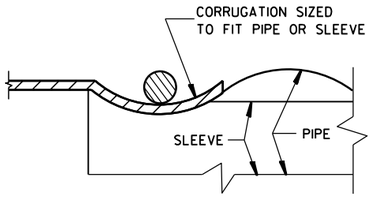
TYPE 2 CONNECTOR DETAIL



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



SECTION A-A



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

PRE_242

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S.D.D. 8 F 8-2

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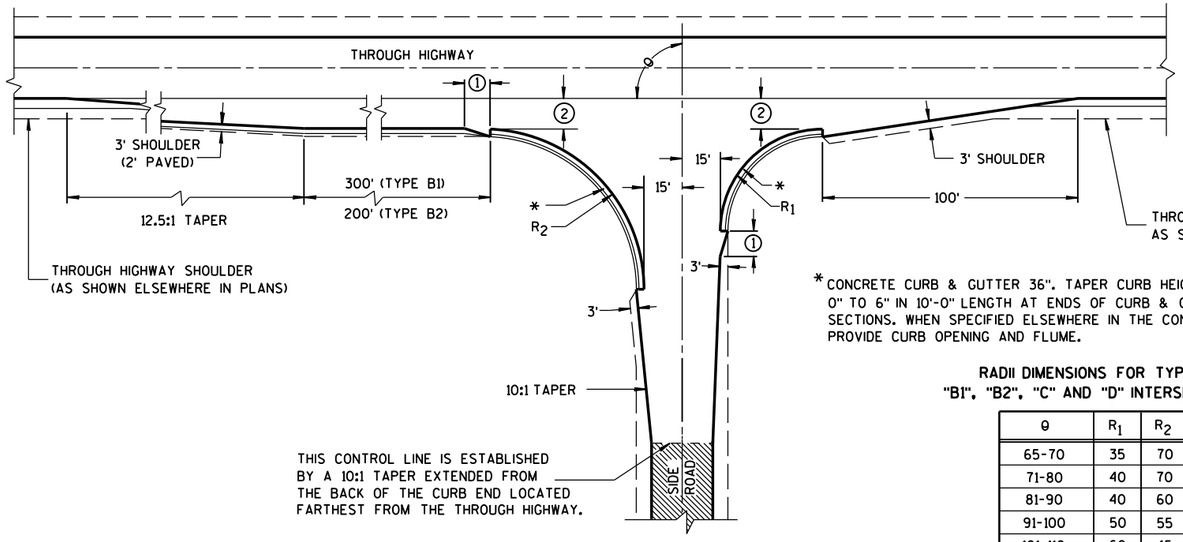
S.D.D. 8 F 8-2

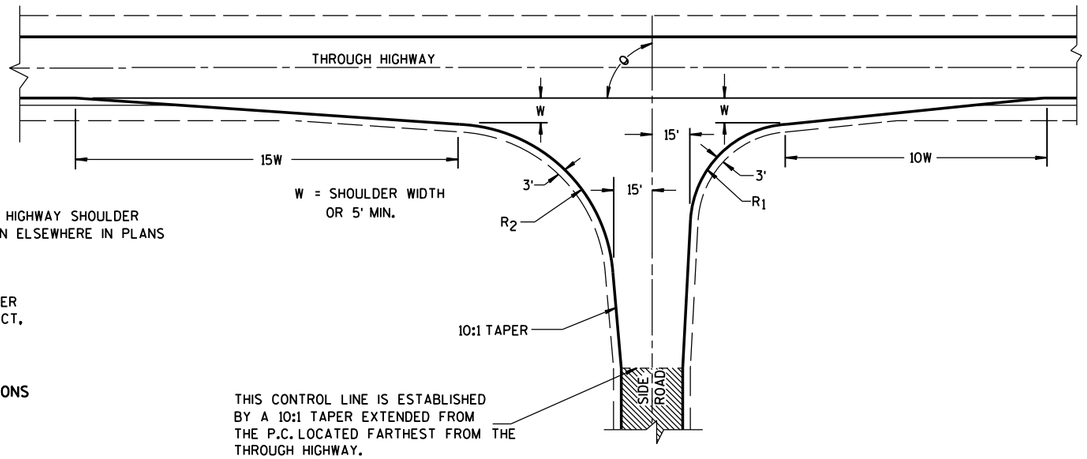


TYPE "B1" AND "B2"

*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

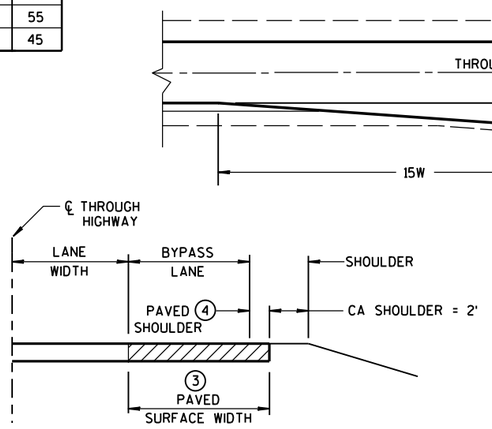
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

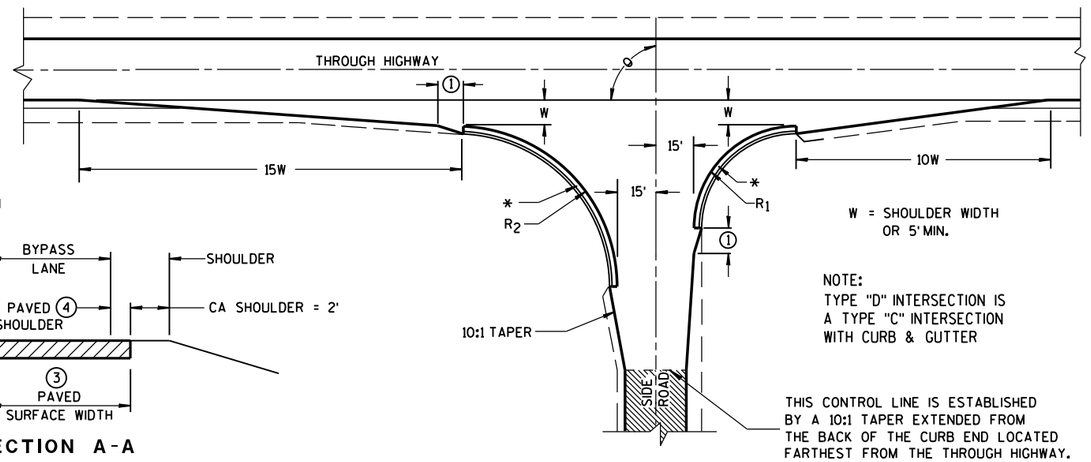
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

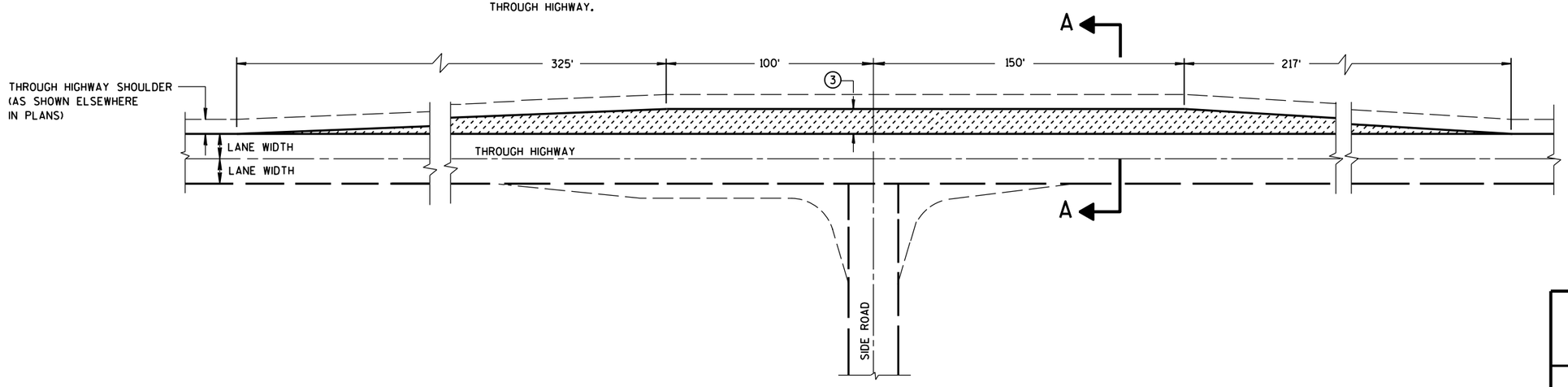
(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TYPE "D"



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRAN

PRE_243

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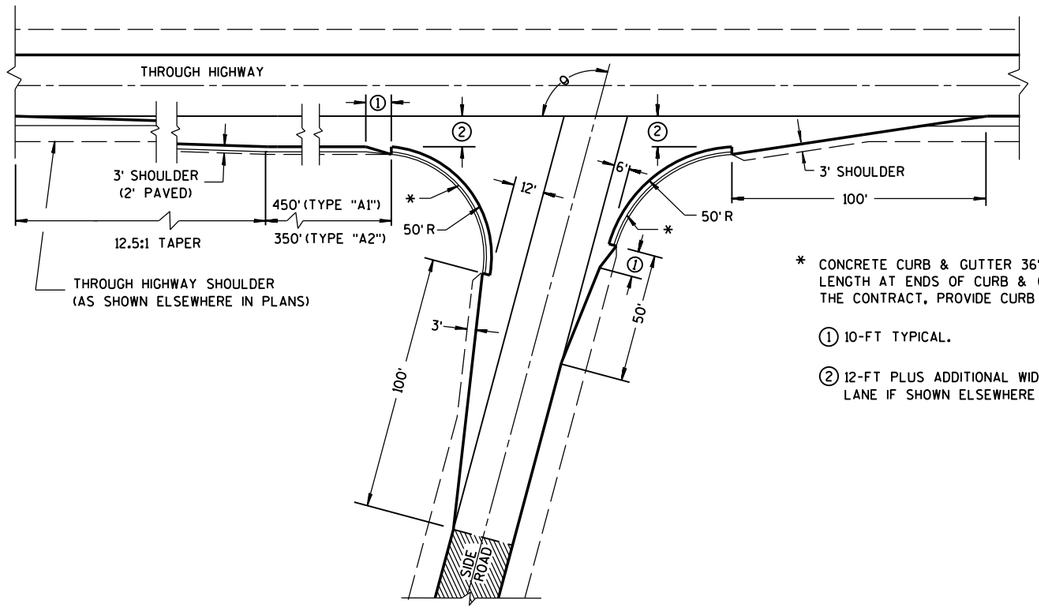
S.D.D. 9 A 1-13a

6

S.D.D. 9 A 1-13a



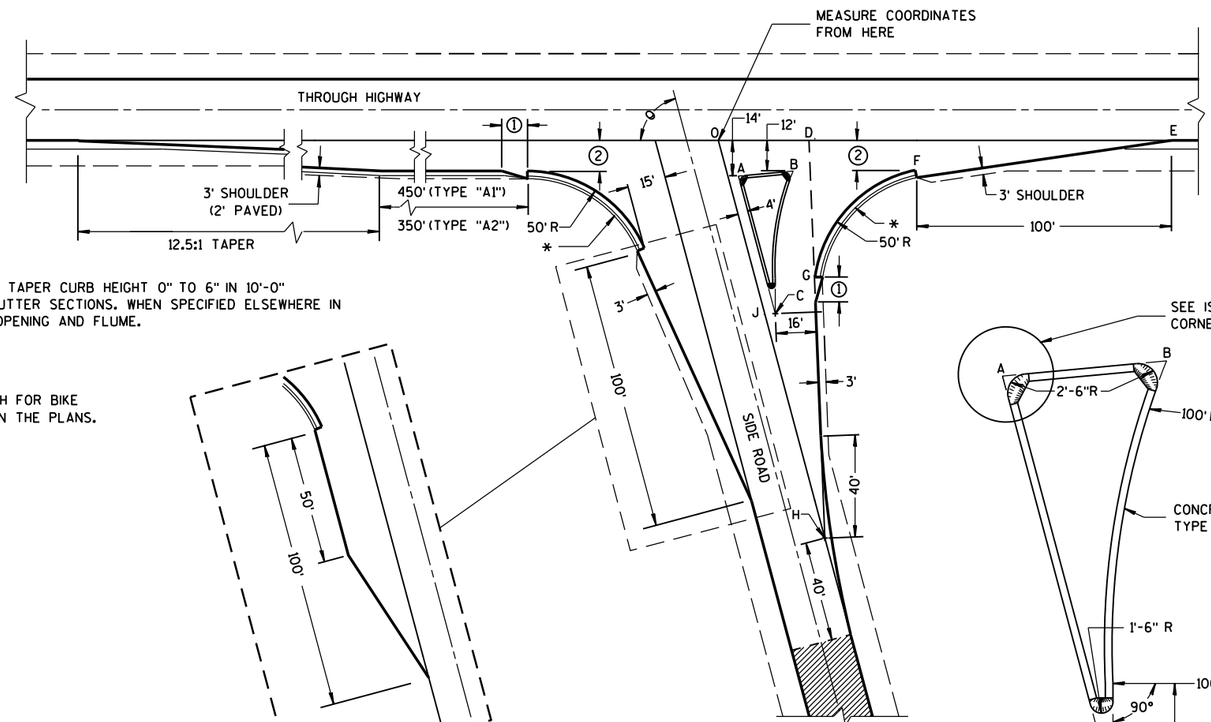
θ = MORE THAN 80°

* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

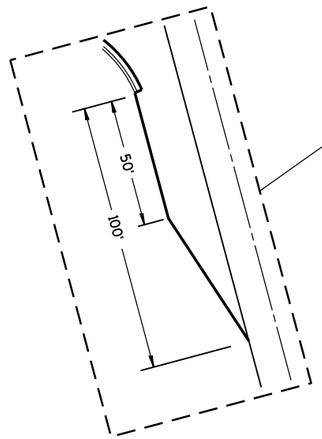
① 10-FT TYPICAL.

② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

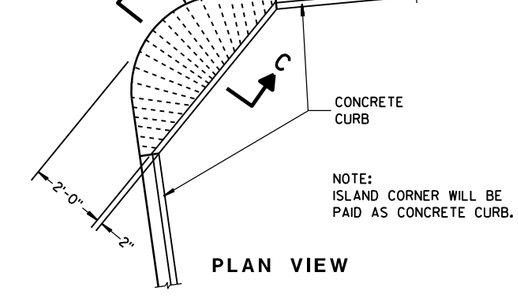
EXISTING PAVED SURFACE



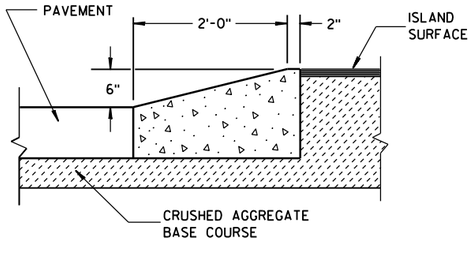
θ = ACUTE ANGLES 80° OR LESS



SIDE ROAD WIDENING AND TAPER REQUIRED WHERE
THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS



PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED 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" & "A2" SIDE ROAD INTERSECTION DETAILS

AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/12 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

PRE_244

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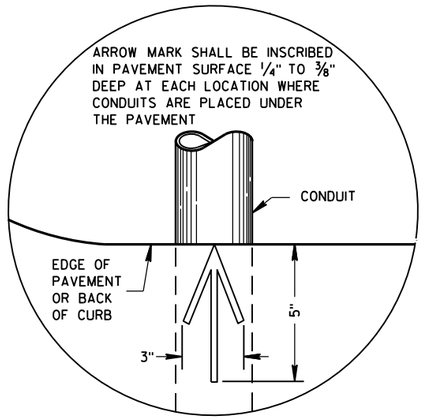
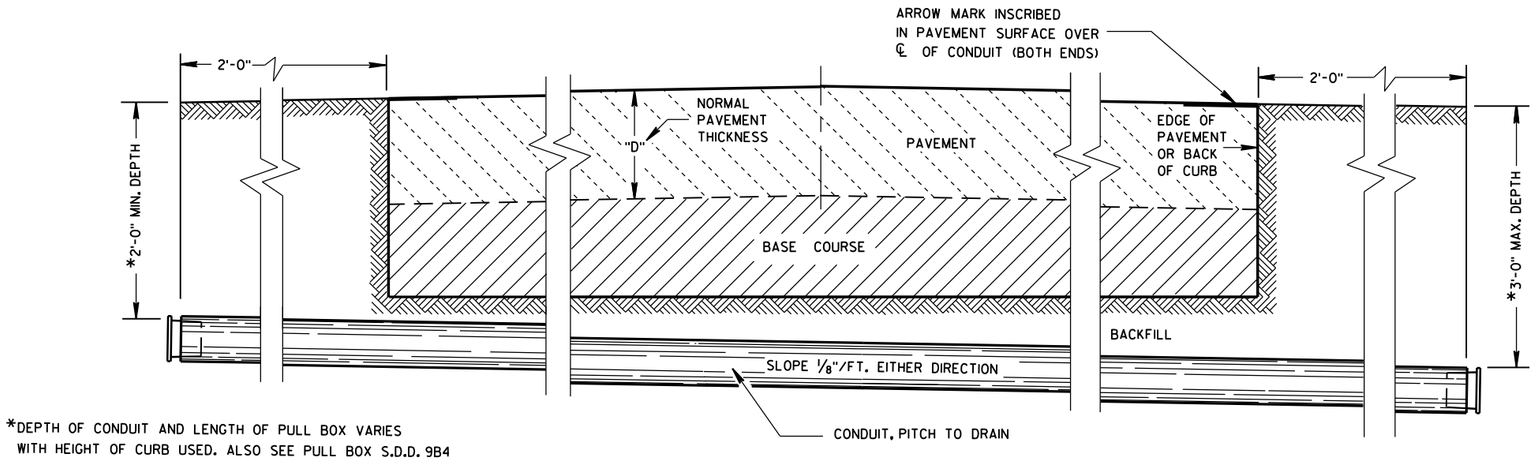
S.D.D. 9 A 1-13b



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

PRE_245

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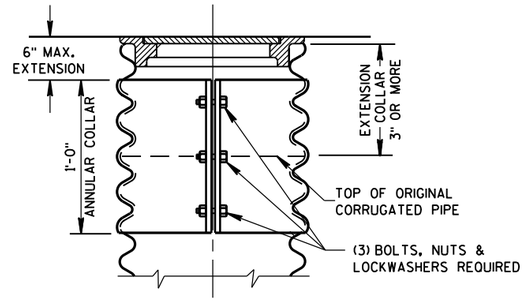
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

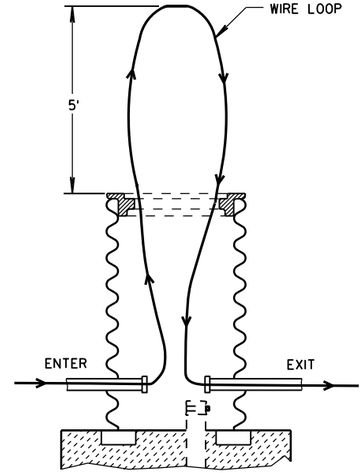
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

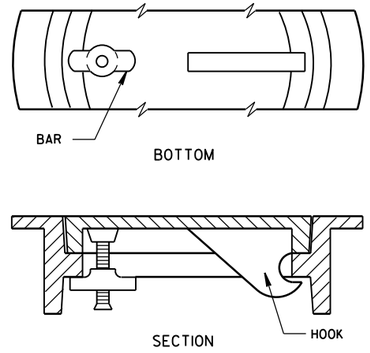
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

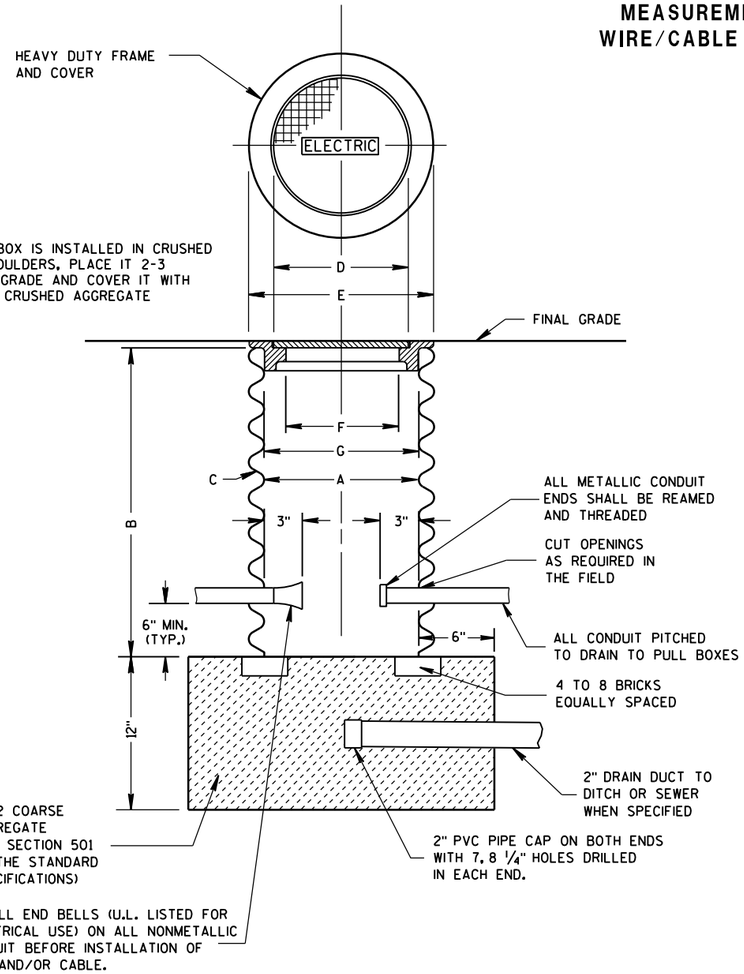


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

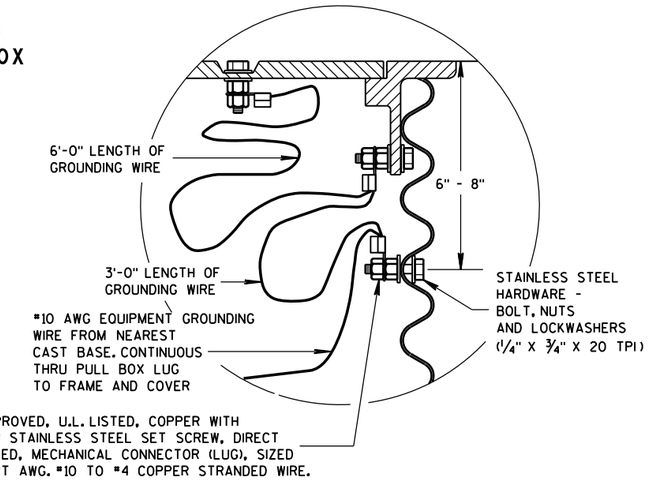


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

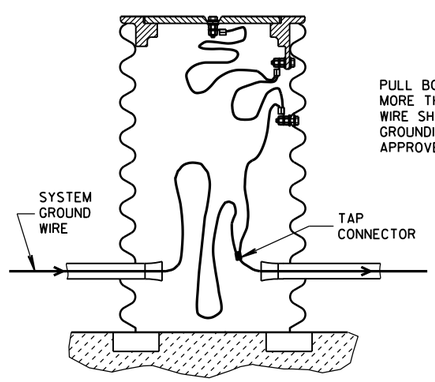
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

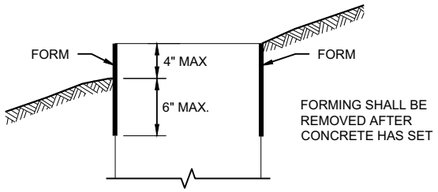
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRI
FHWA

PRE_246

6

S.D.D. 9 B 4-11

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.

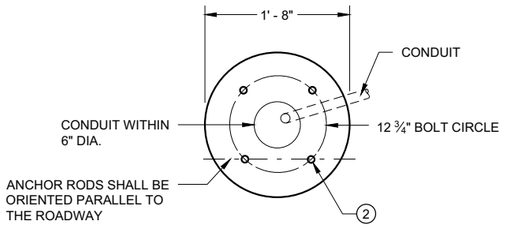
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

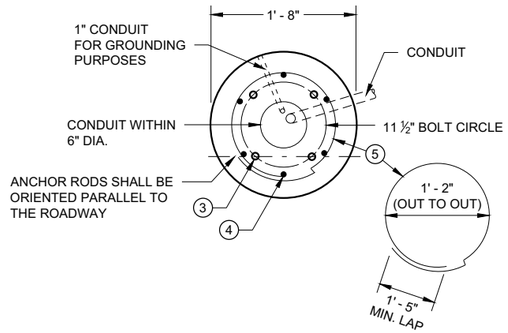
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

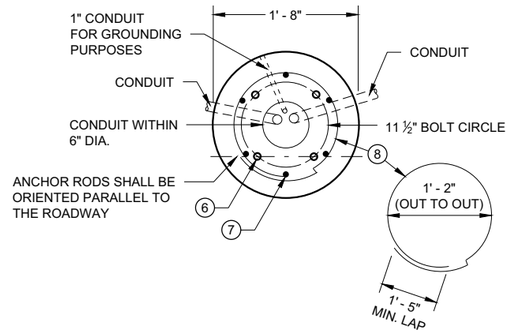
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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

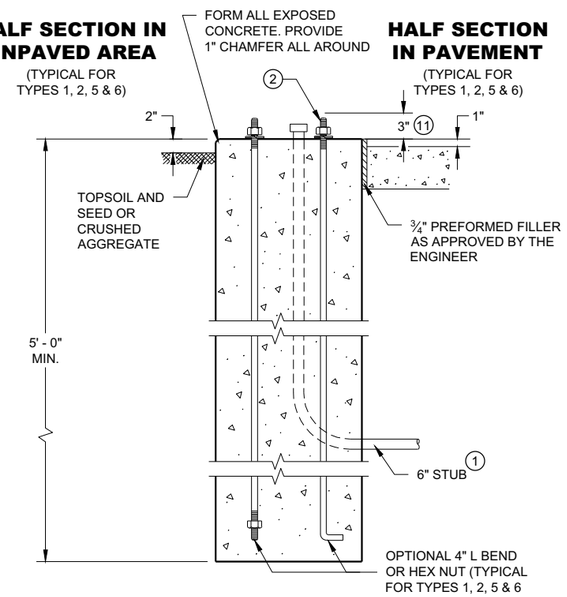
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

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.

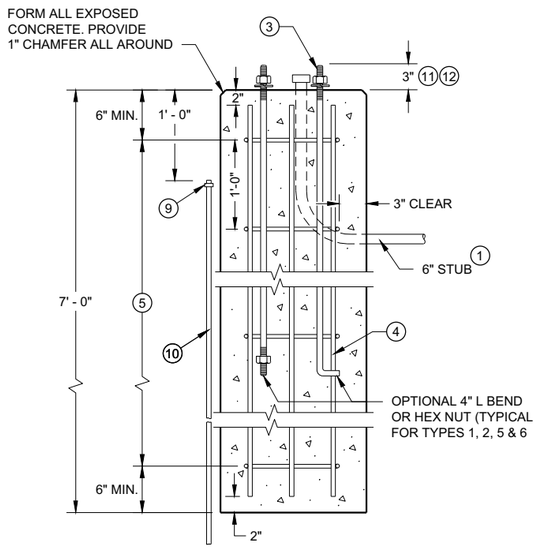
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

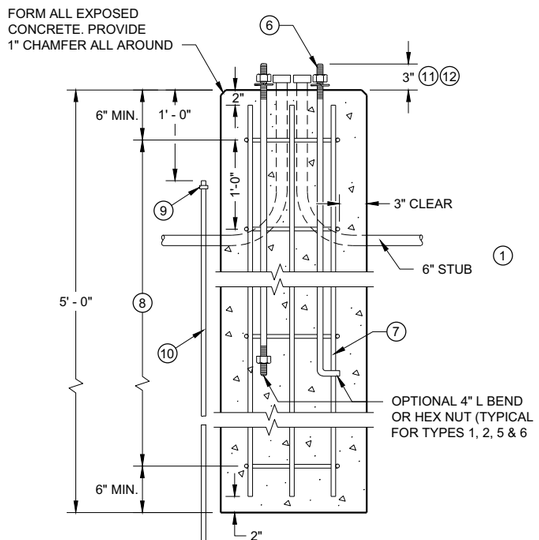
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



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

FHWA

PRE_247

6

SDD 09C02 - 09

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.

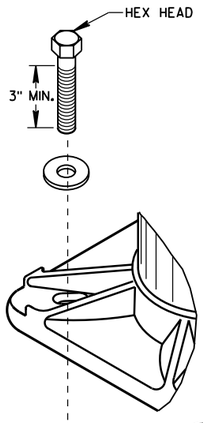
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

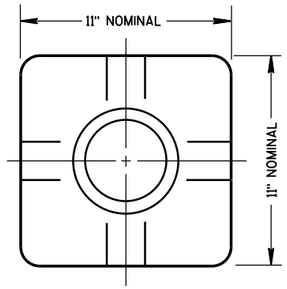
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

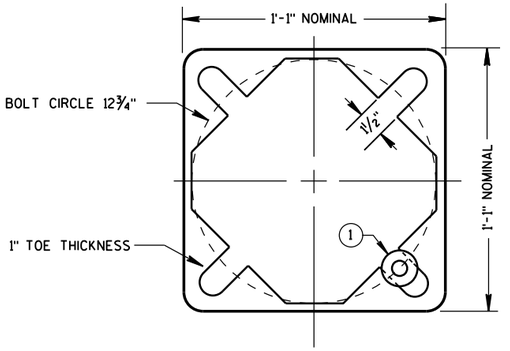
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

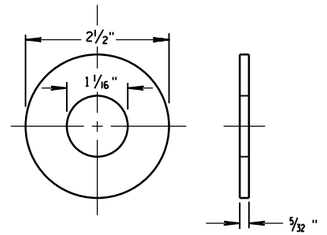




TOP VIEW
(PEDESTAL BASE)

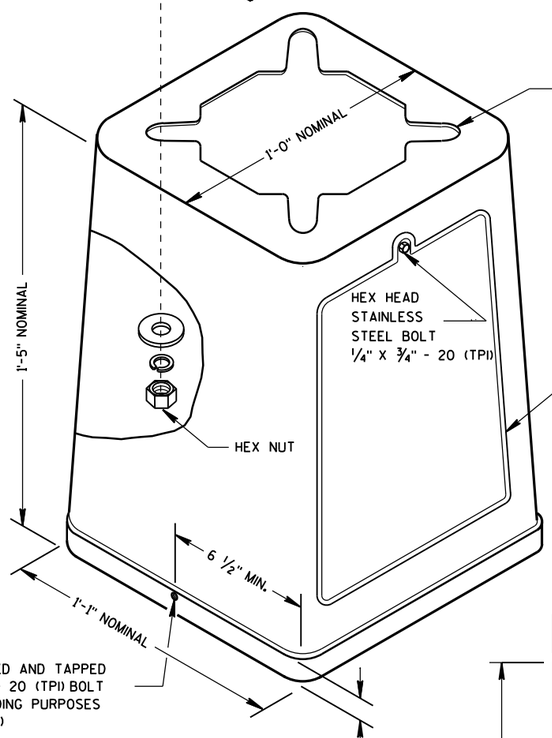


BOTTOM VIEW
(PEDESTAL BASE)

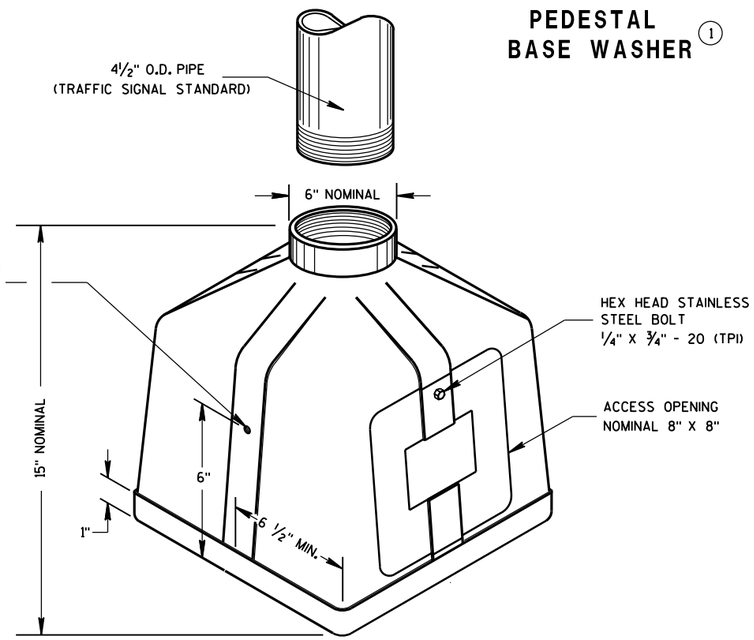


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

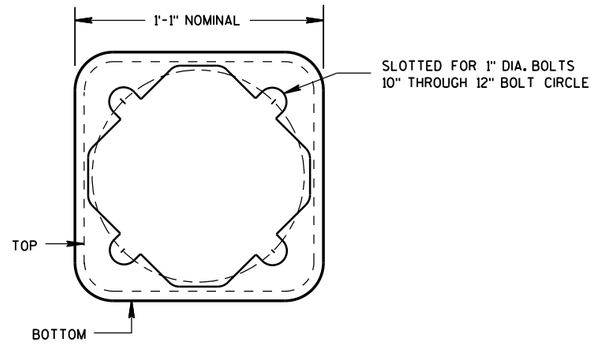


ISOMETRIC VIEW

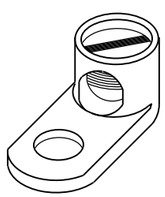


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

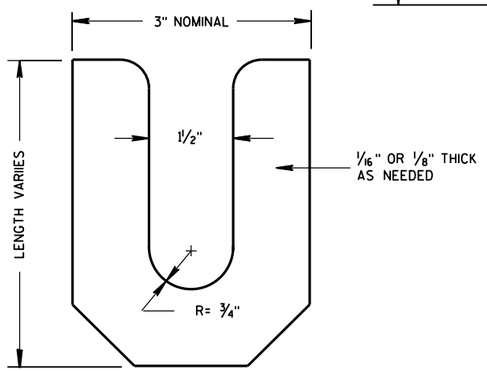


TYPICAL MECHANICAL CONNECTOR LUG

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 ELECTR
FHWA

PRE_248

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S.D.D. 9 C 3-4

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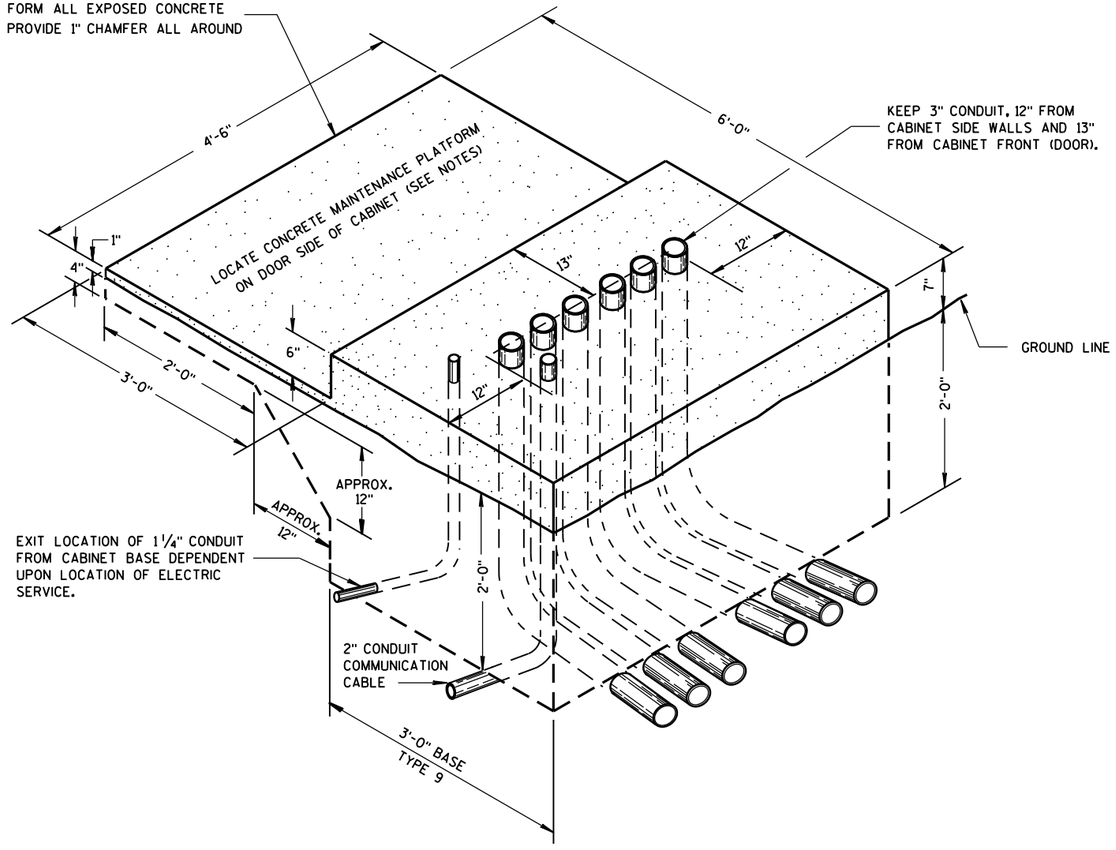
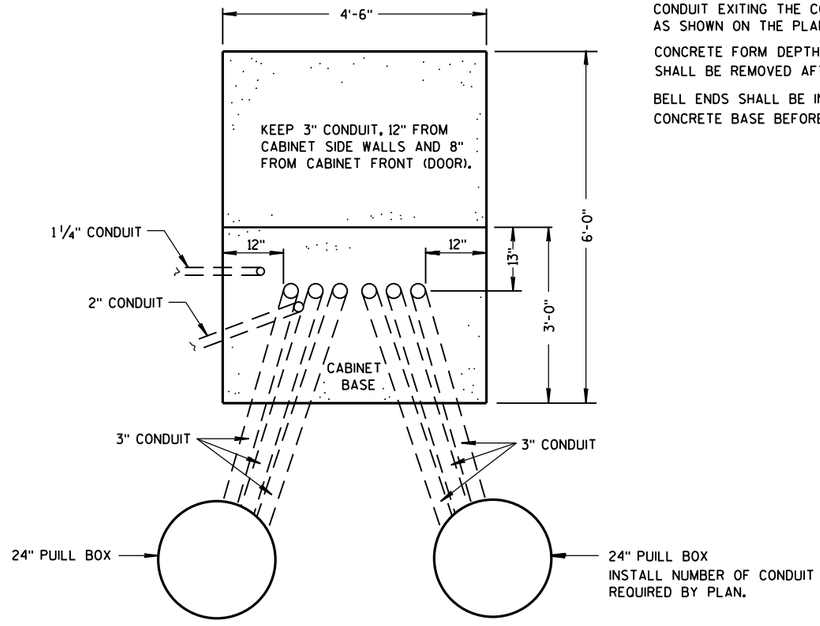
S.D.D. 9 C 3-4



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

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

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTR
FHWA

PRE_249

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL 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 AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS 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 AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC 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).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

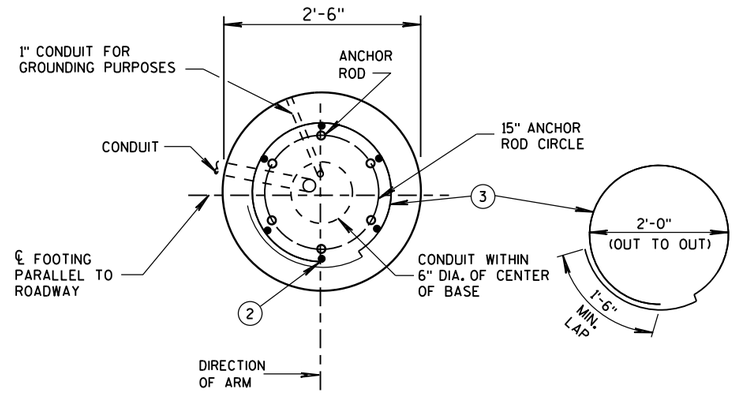
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

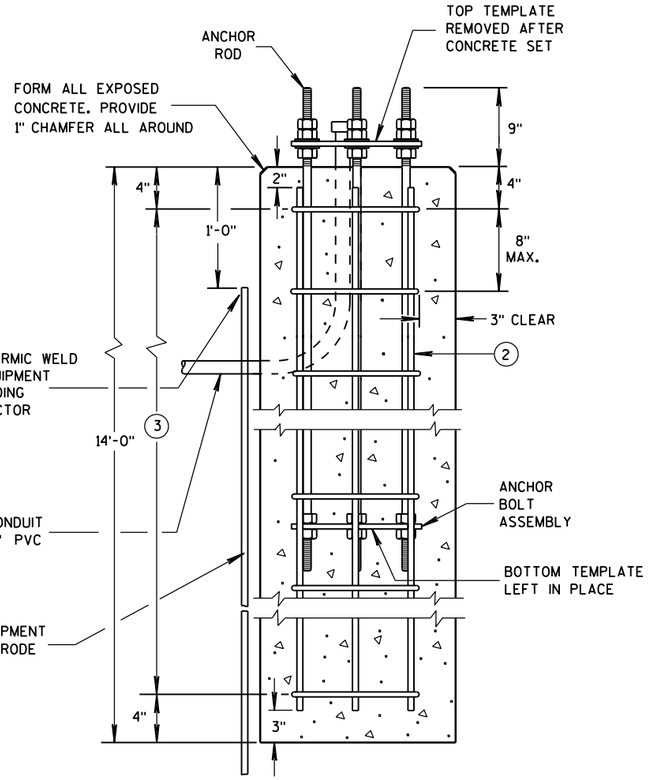
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.

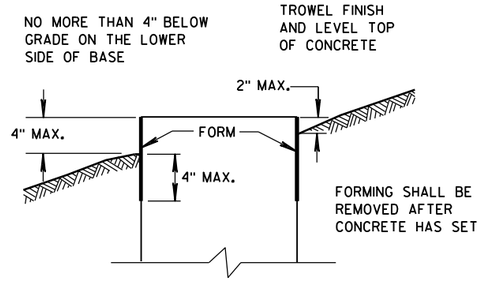




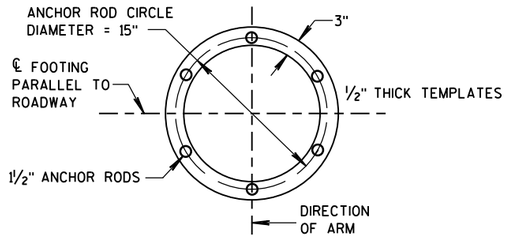
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

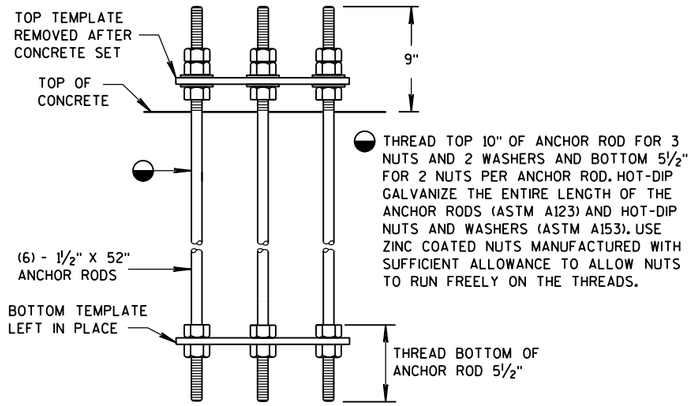
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2017 — DATE

/S/ Ahmet Demirbilek — STATE ELECTR

PRE_250

FHWA

6

S.D.D. 9 C 11-10

GENERAL NOTES

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

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

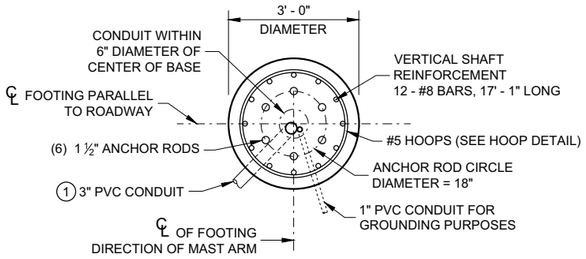
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

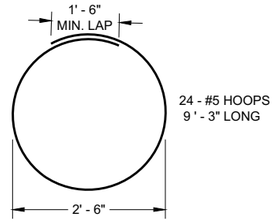
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

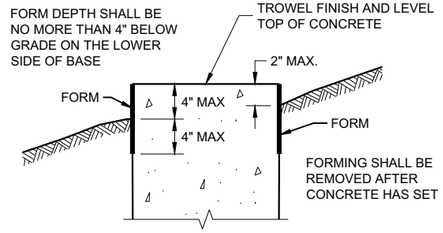
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



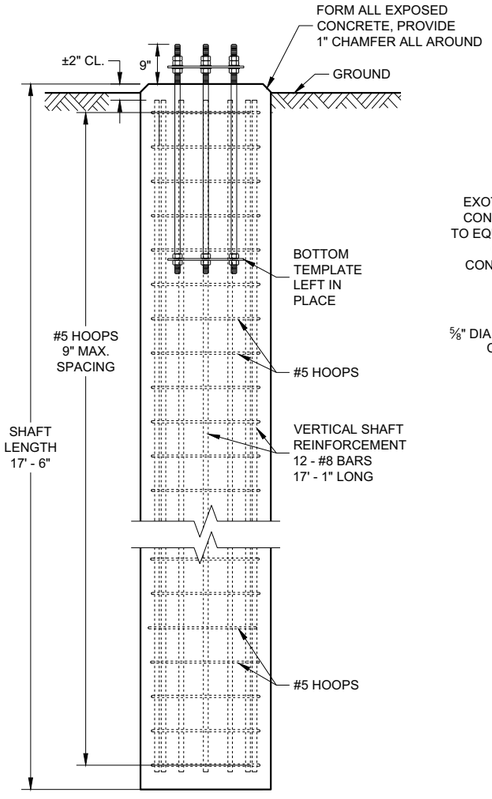
PLAN VIEW



HOOP DETAIL

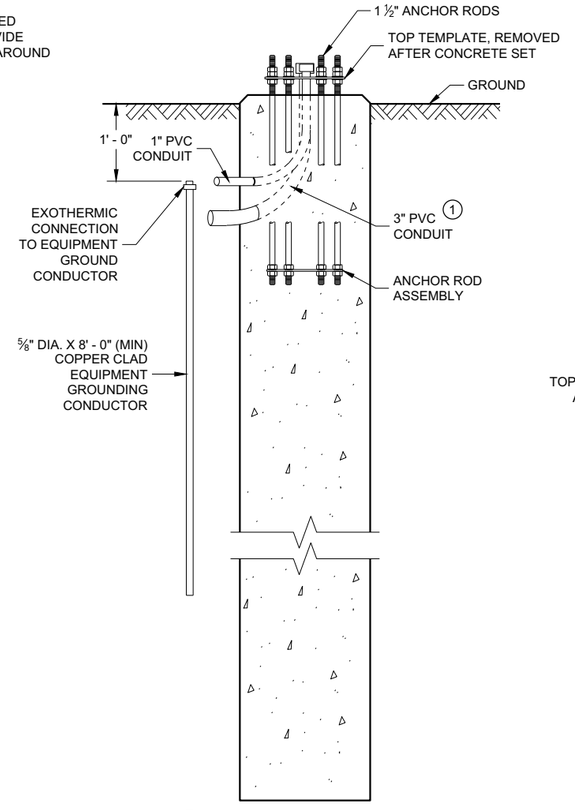


FORMING DETAIL



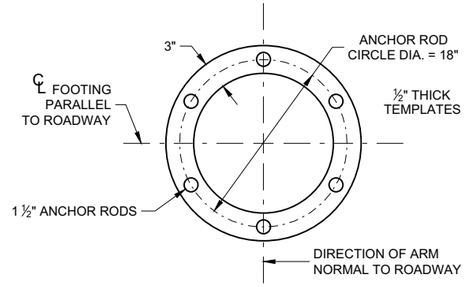
ELEVATION VIEW

(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)

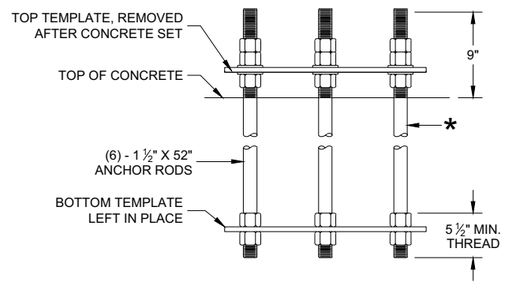


SIDE VIEW

(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Alex Crabtree
WIND LOADED ST PROGRAM LE

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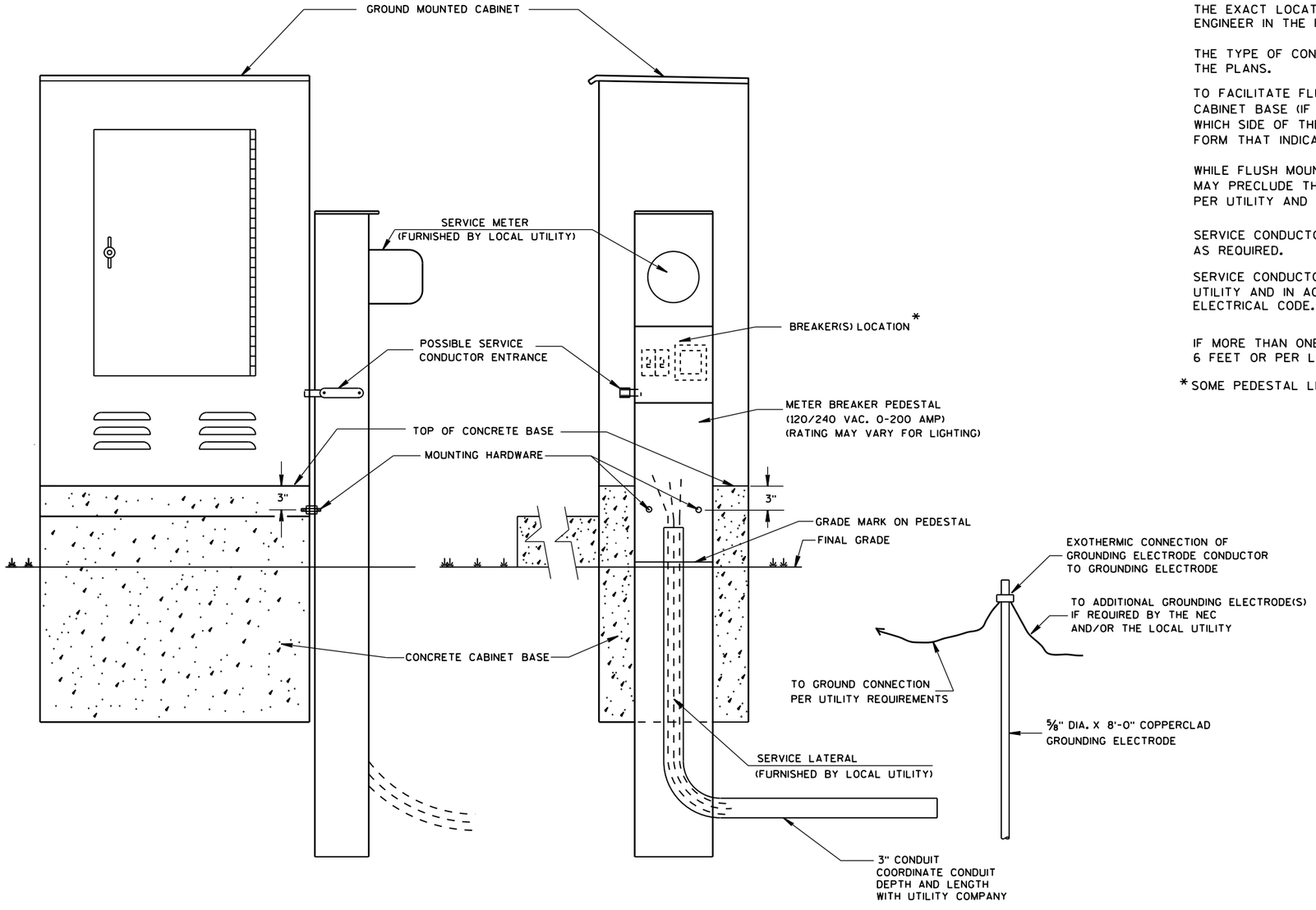

TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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CABINET SERVICE INSTALLATION
(METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTR

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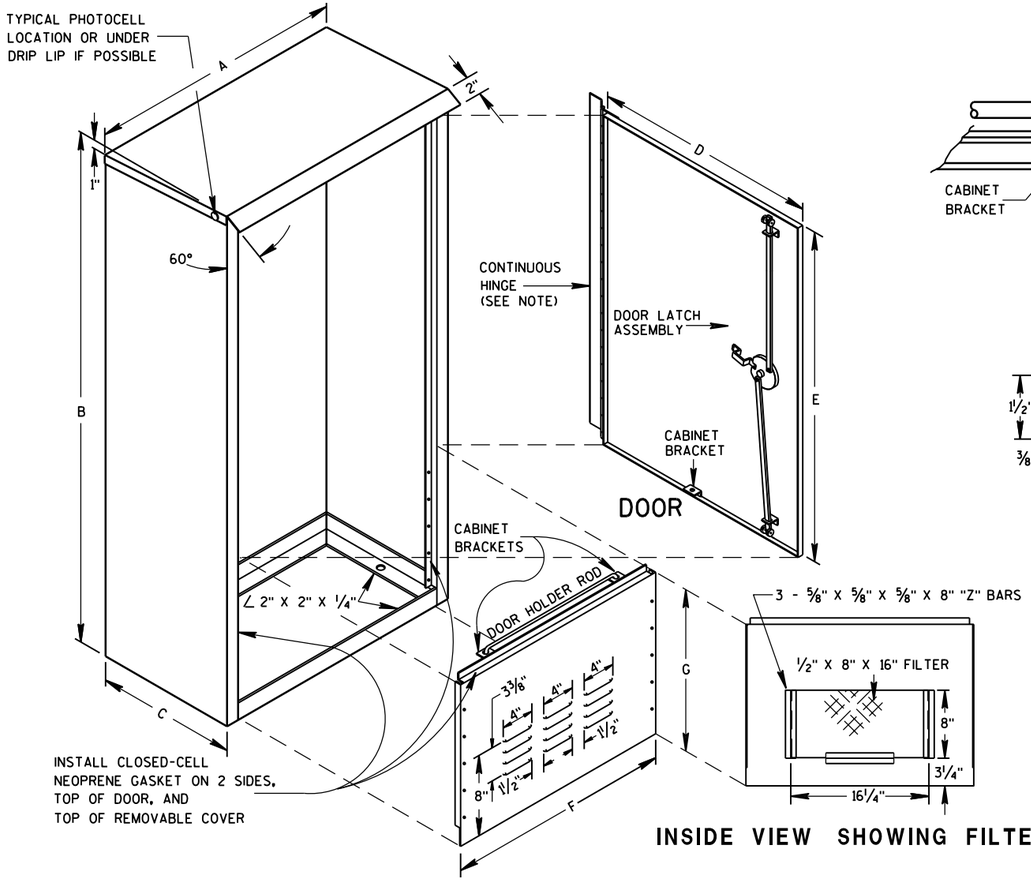
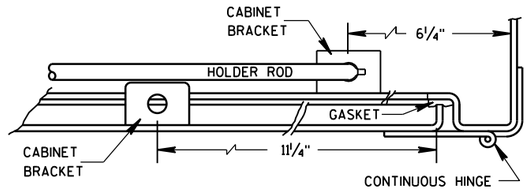
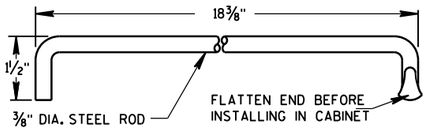


REMOVABLE COVER

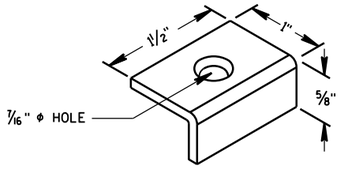
INSIDE VIEW SHOWING FILTER



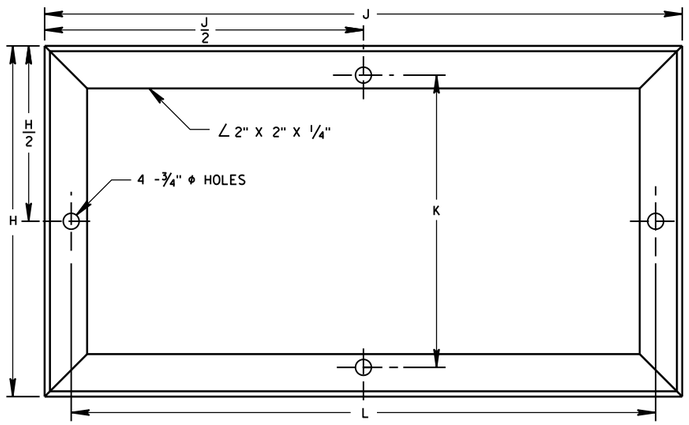
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

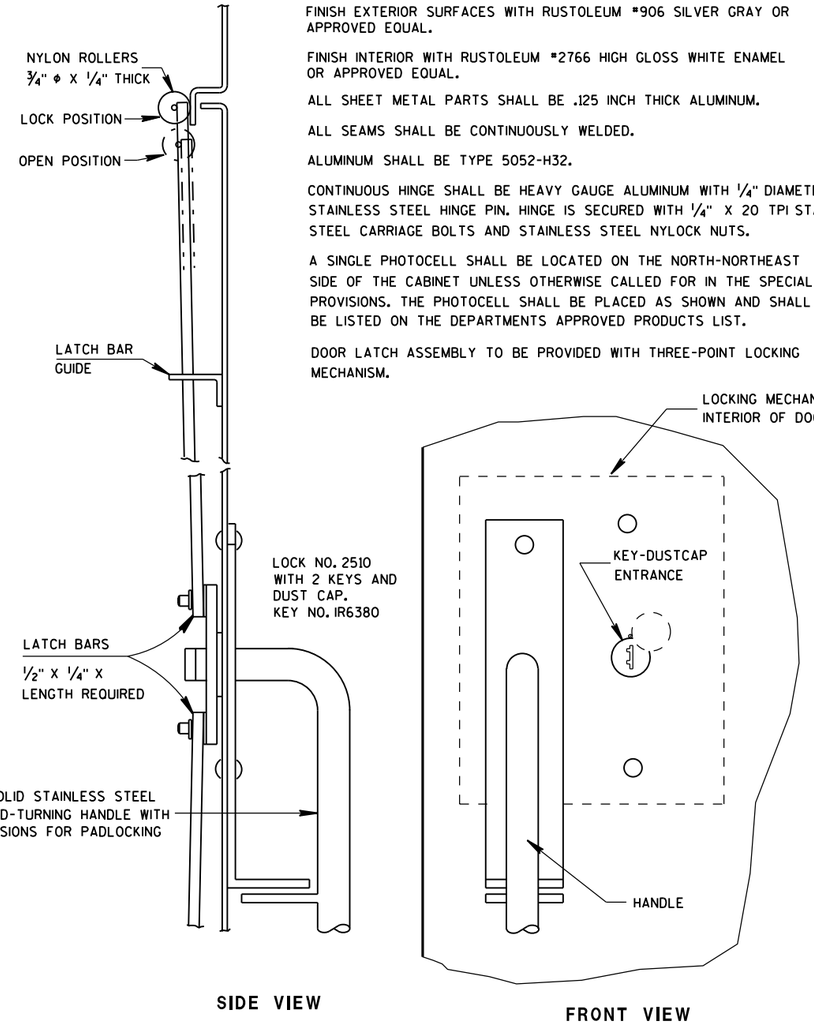
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

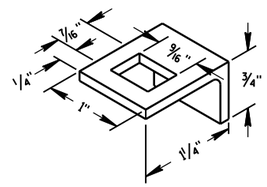
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRI
FHWA

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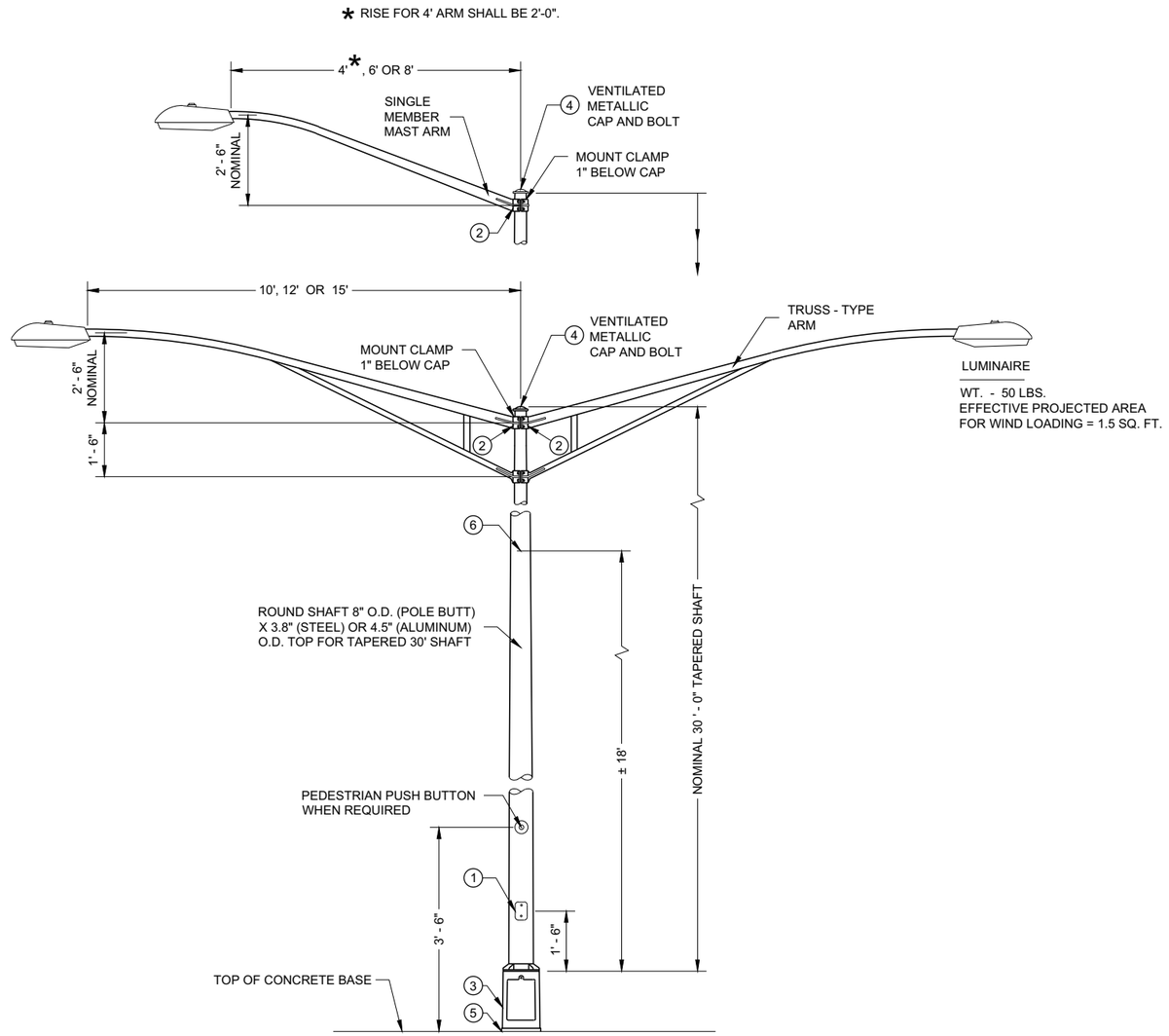


TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

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

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

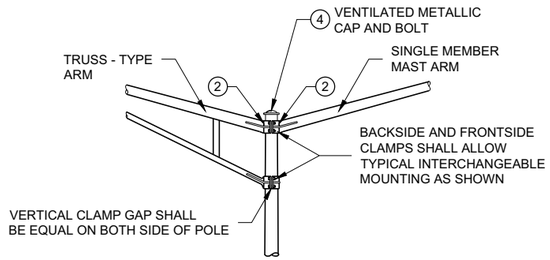
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

STATE OF WISCONSIN
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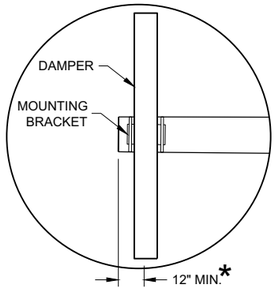
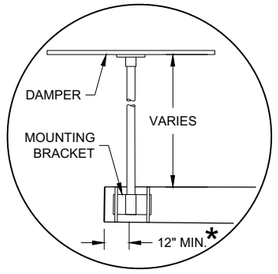
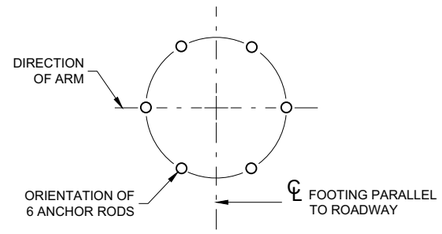


DUMBBELL VIBRATION DAMPER

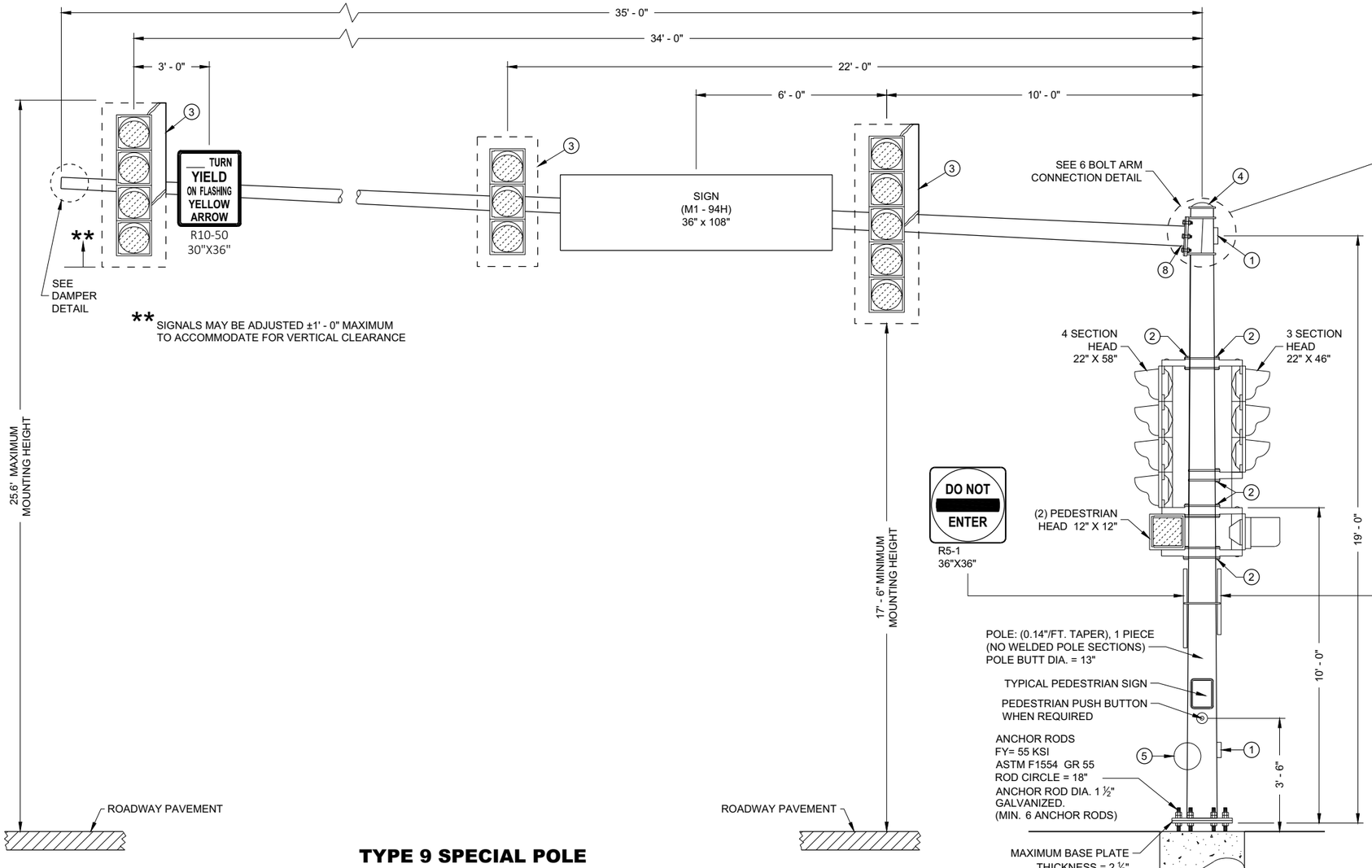


FLAT VIBRATION DAMPER

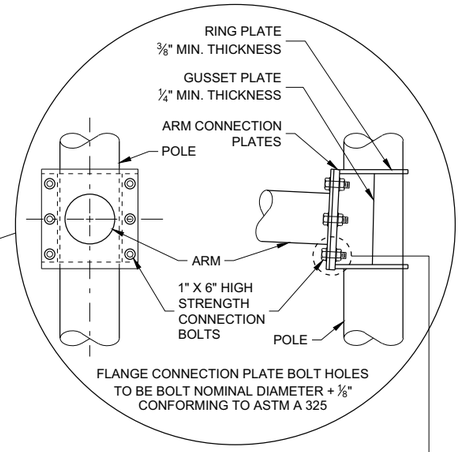
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



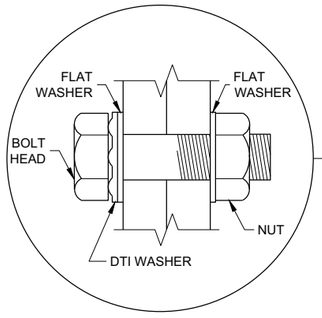
ANCHOR ROD LOCATION



TYPE 9 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL PRE_255

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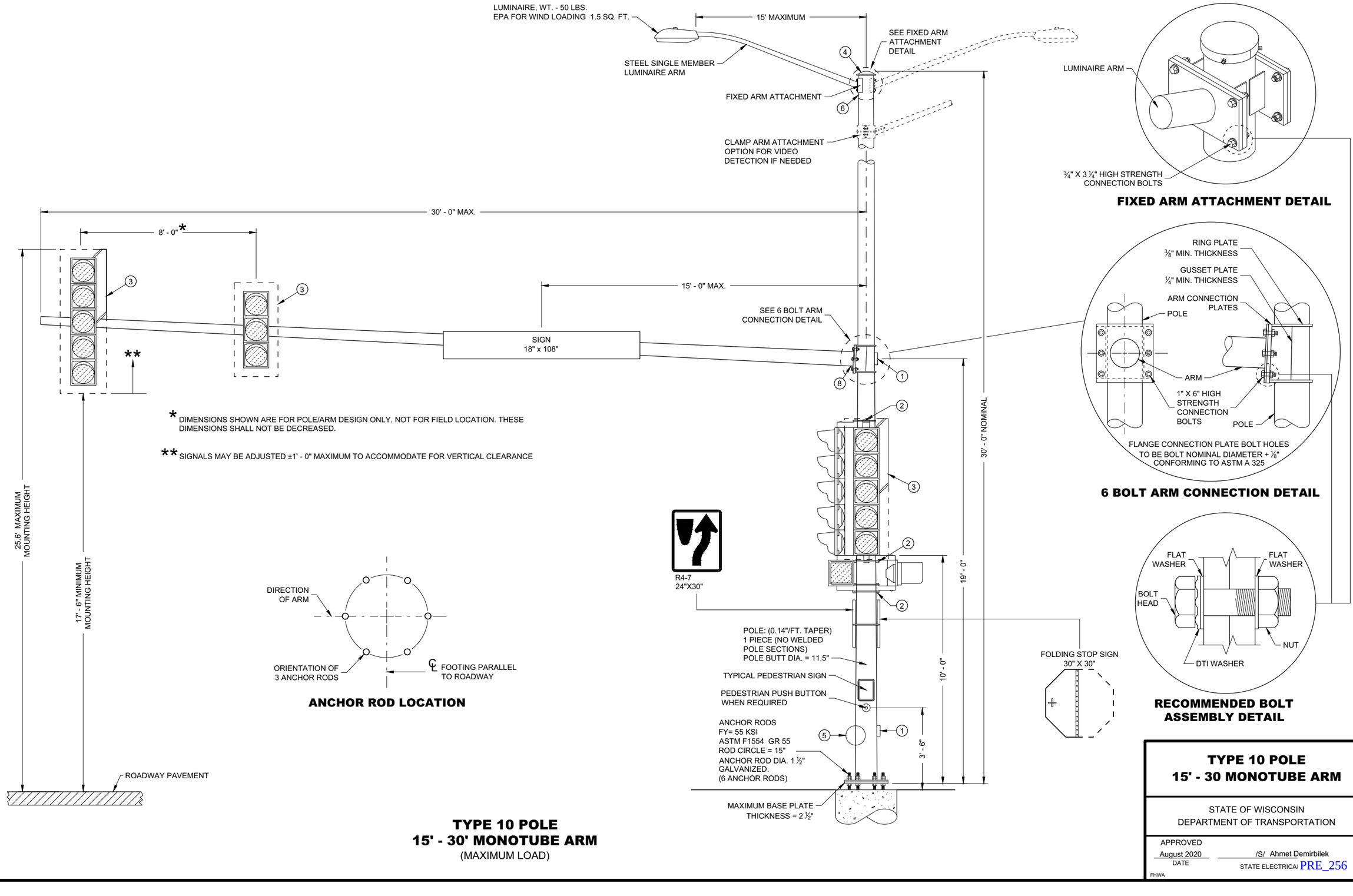

* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION

FIXED ARM ATTACHMENT DETAIL

6 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
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GENERAL NOTES

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

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

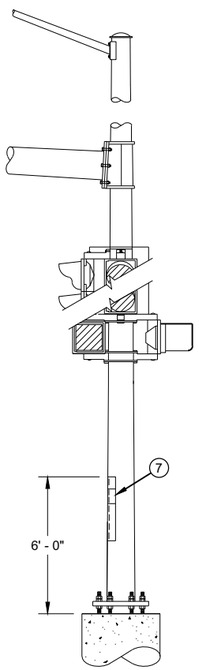
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

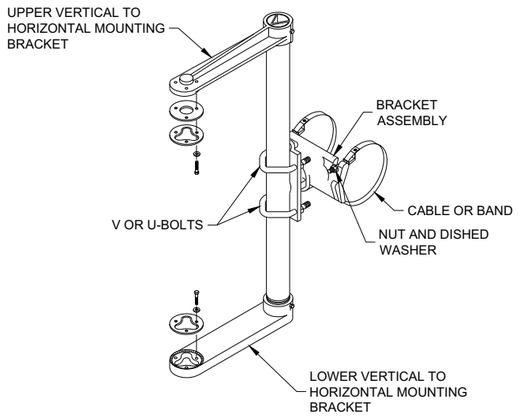
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

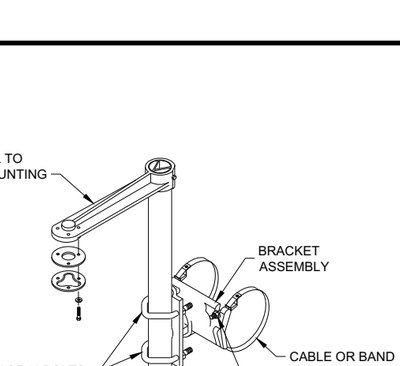


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



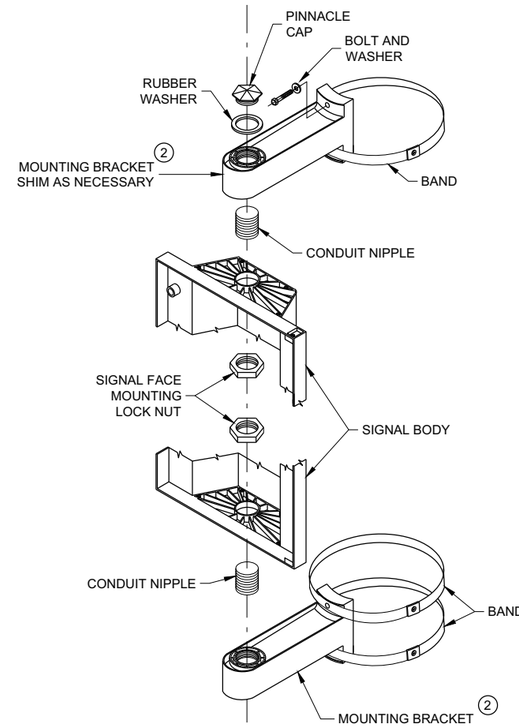
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

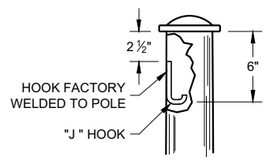


TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

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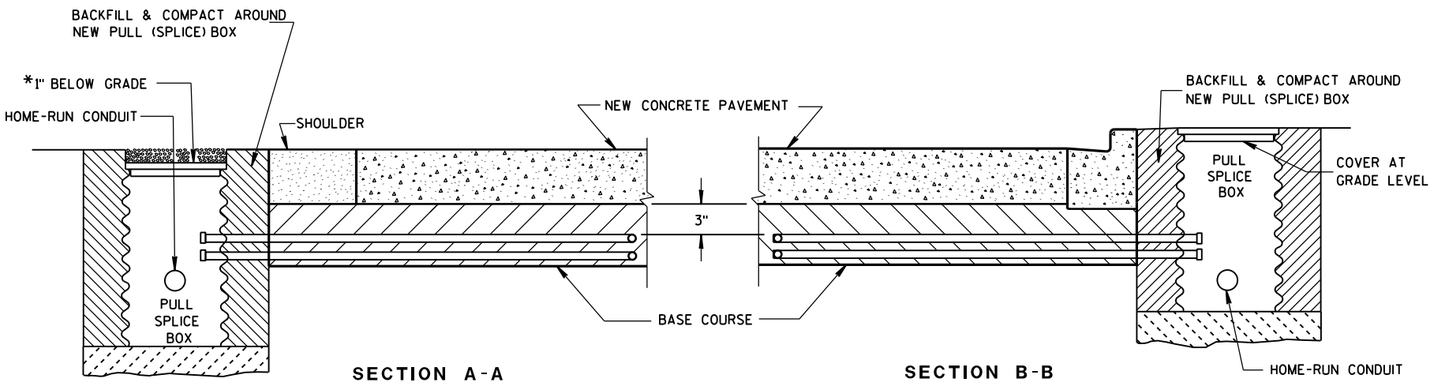


SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

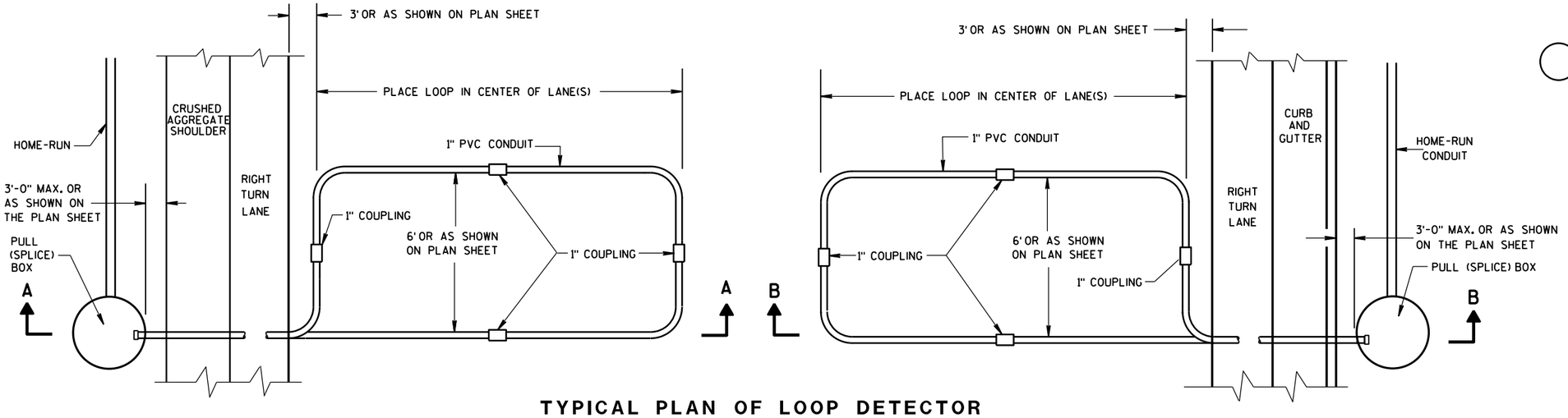
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

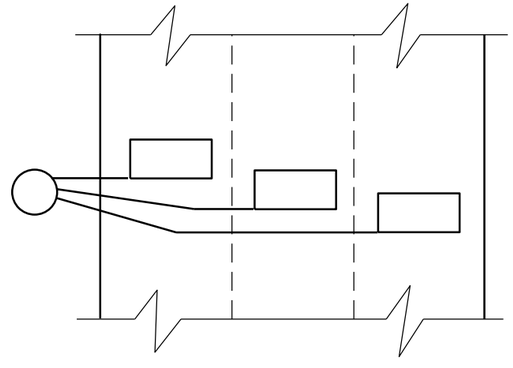
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

PRE_258

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S.D.D. 9 F 15-4b

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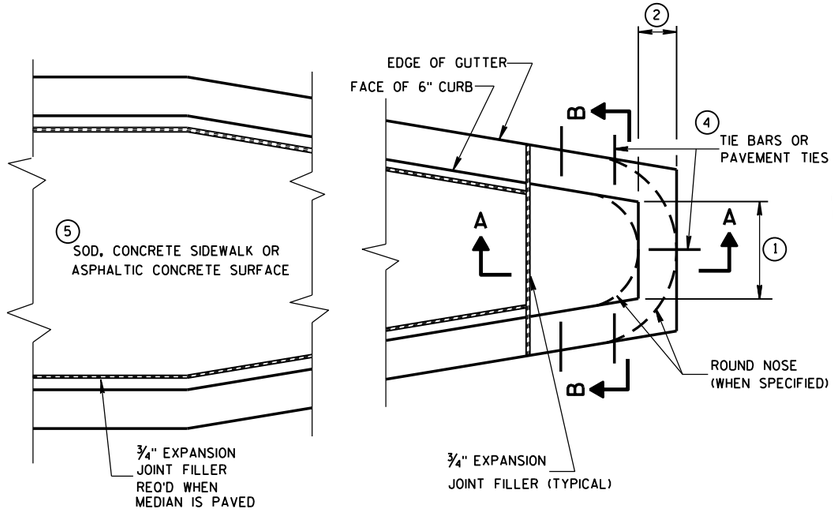
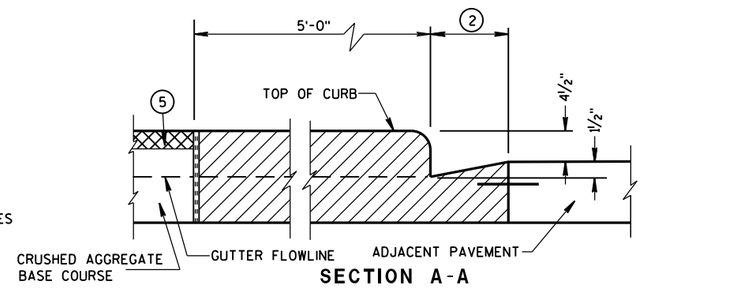
S.D.D. 9 F 15-4b





CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

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

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

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

(1) NEW OR EXISTING CONCRETE PAVEMENT.

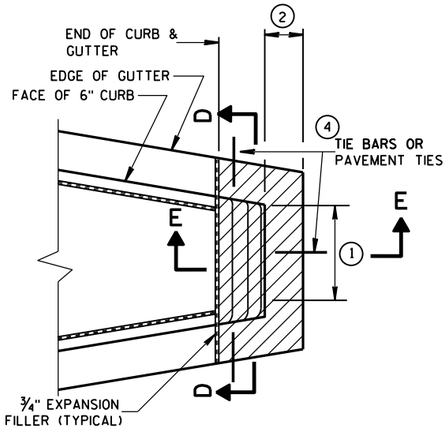
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

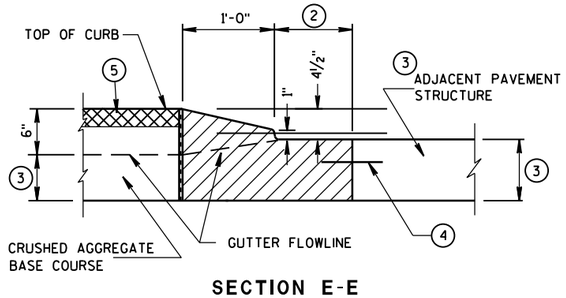
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

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

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

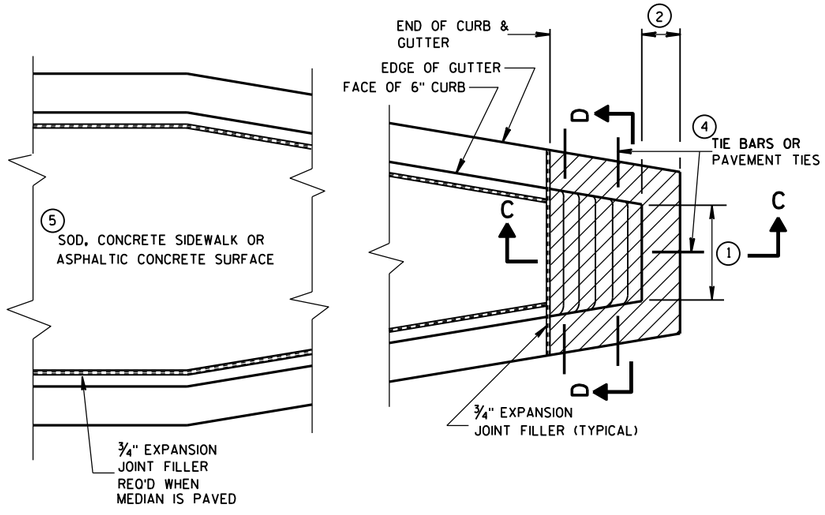
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

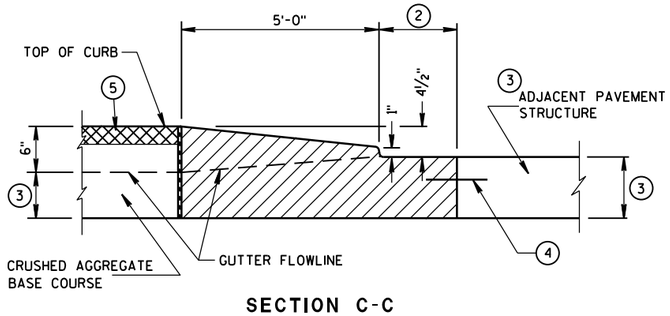




SECTION E-E

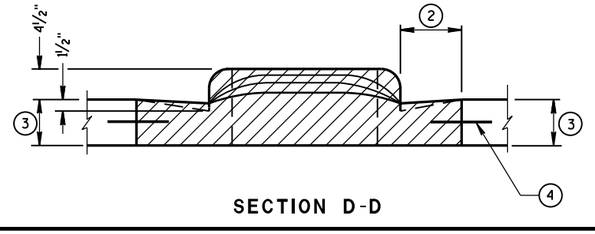
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

PRE_259

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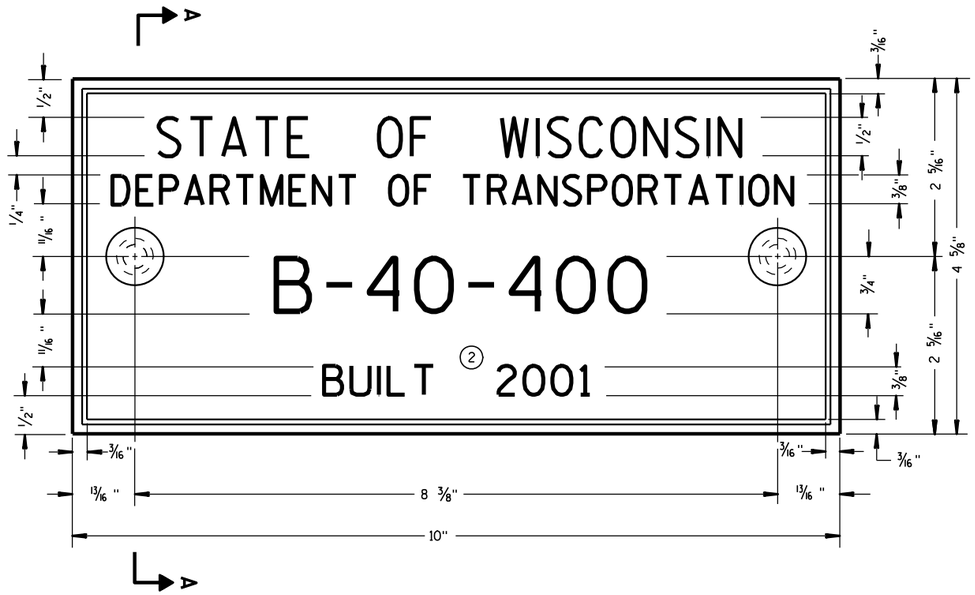


TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

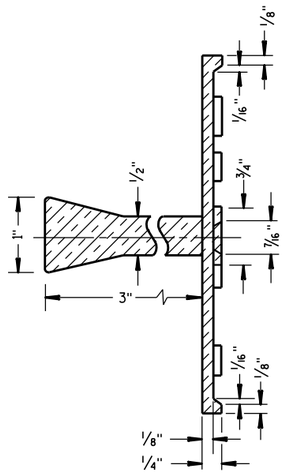
GENERAL NOTES

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.

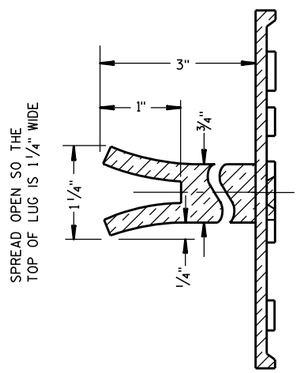
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(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

FOR MULTI-UNIT STRUCTURES LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

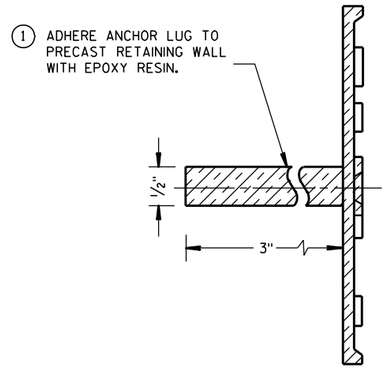
COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10
DATE

/S/ Scot [illegible]
CHIEF STRUCTURAL DE[illegible]ER

FHWA

PRE_260

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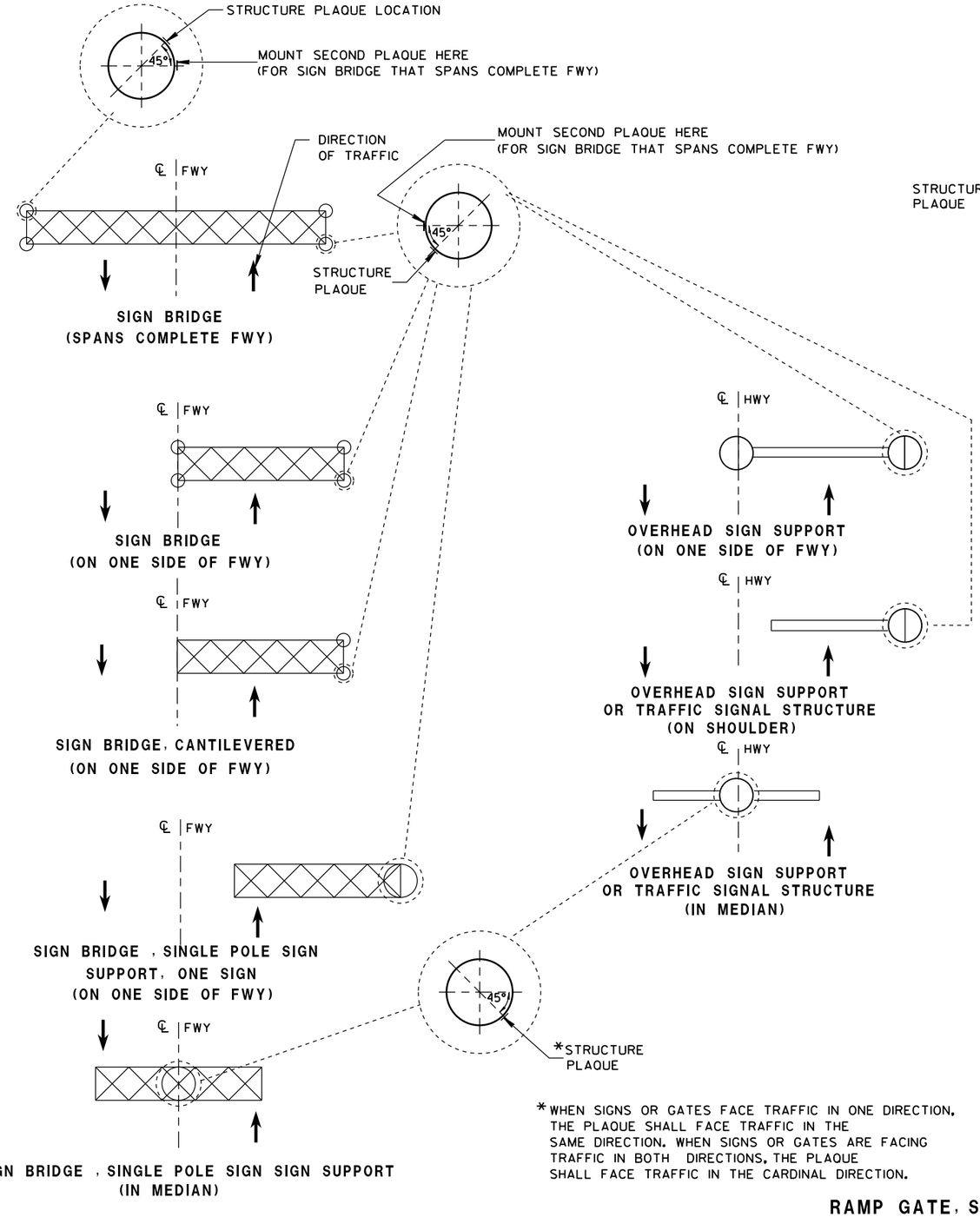
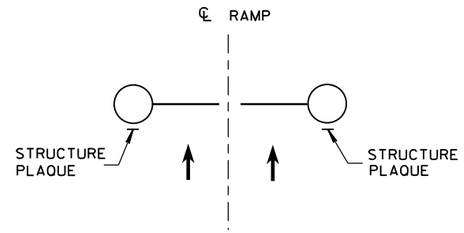
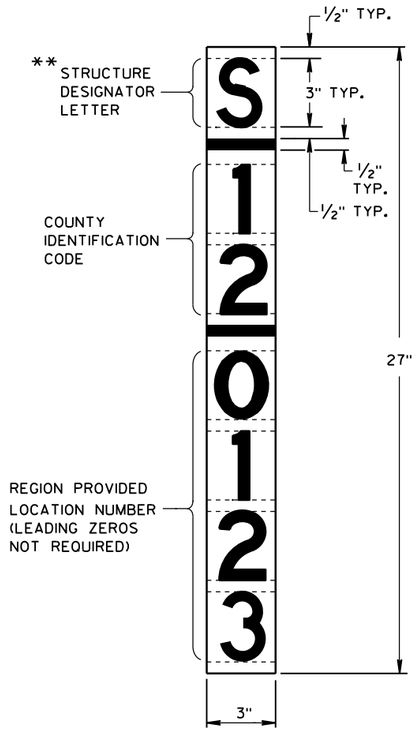


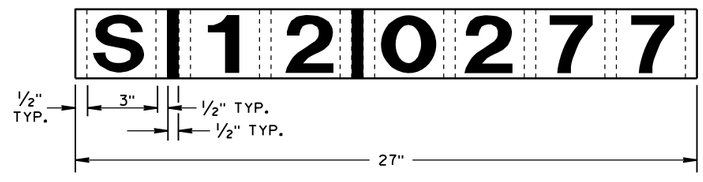
LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.



RAMP GATE
(ACROSS FWY ON-RAMP)





IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC E
GN
FHWA

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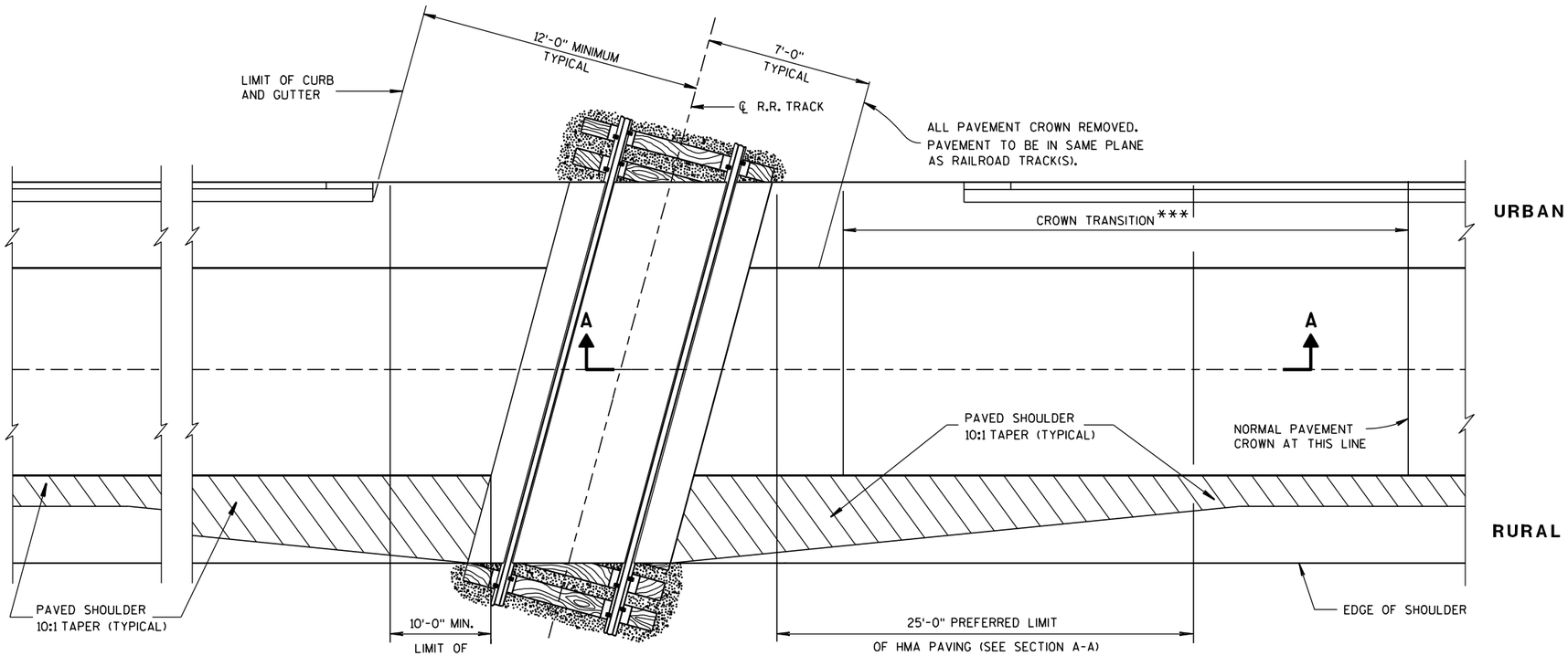
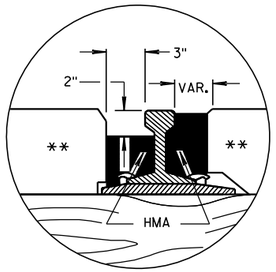




DETAIL B

HMA FLANGEWAY AND FIELD FILLERS

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.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

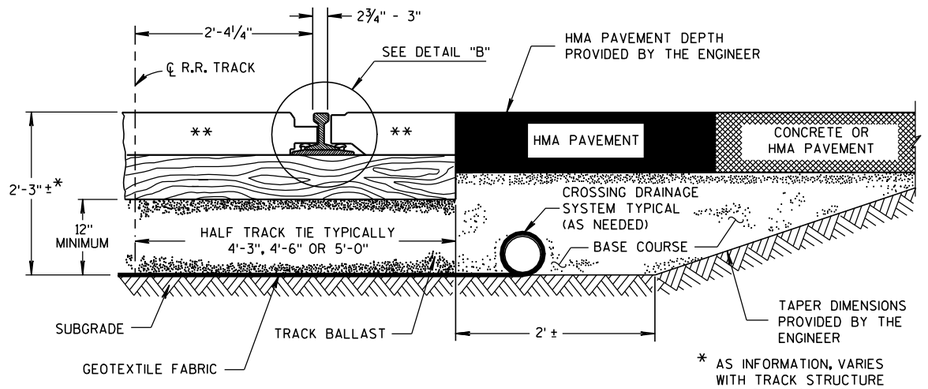
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

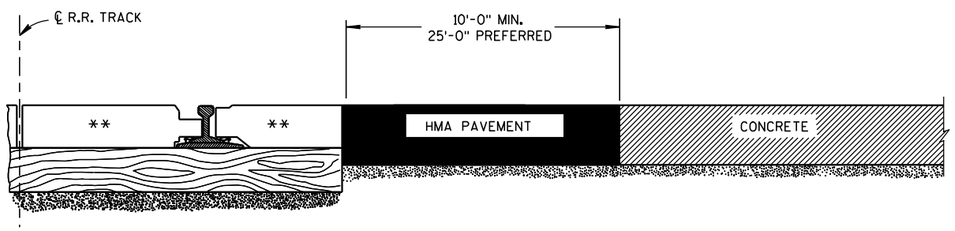
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.

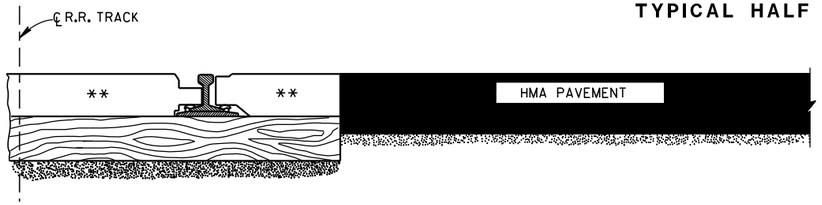


TYPICAL HALF SECTION



SECTION A-A

CONCRETE PAVEMENT APPROACH



SECTION A-A

HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & PRE_262 TION
FHWA

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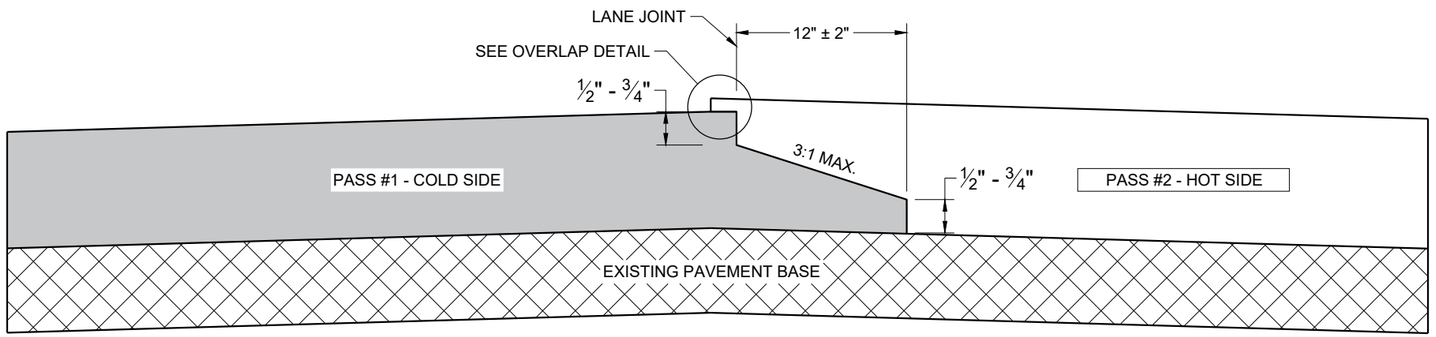
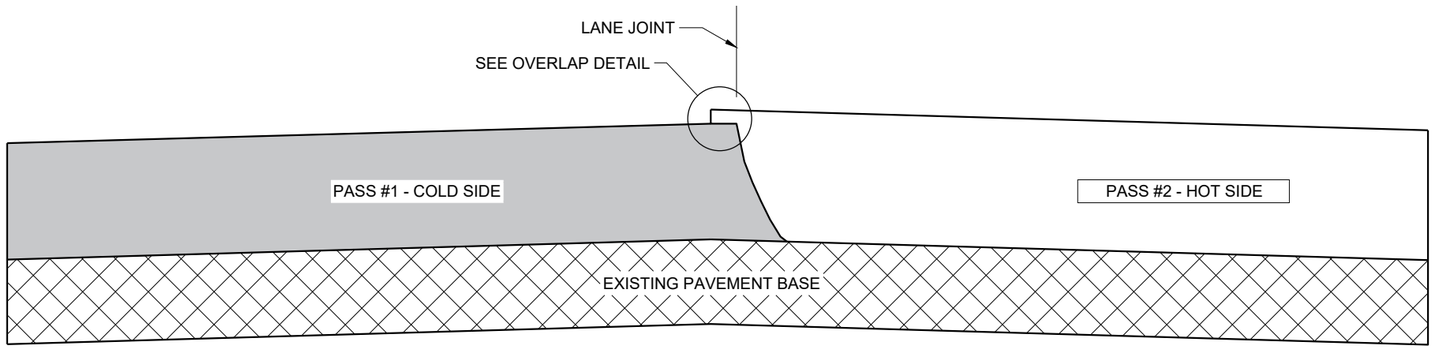
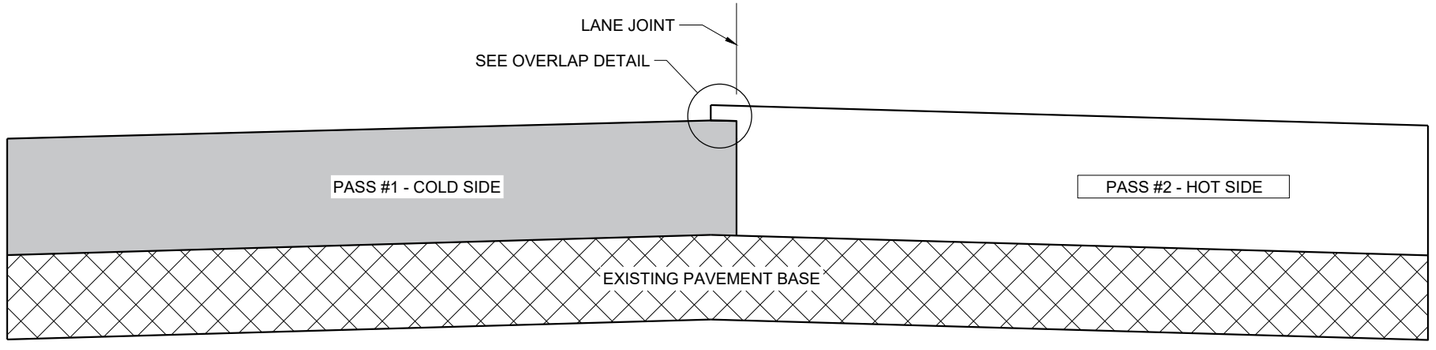
S.D.D. 13 B 1-10



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

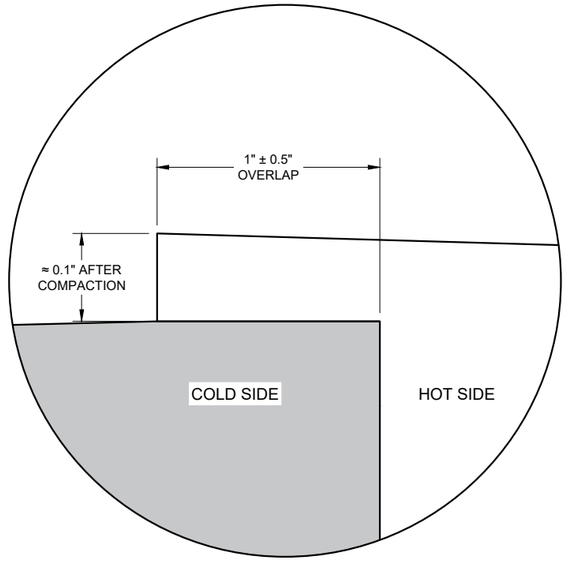
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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)

HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT

FHWA

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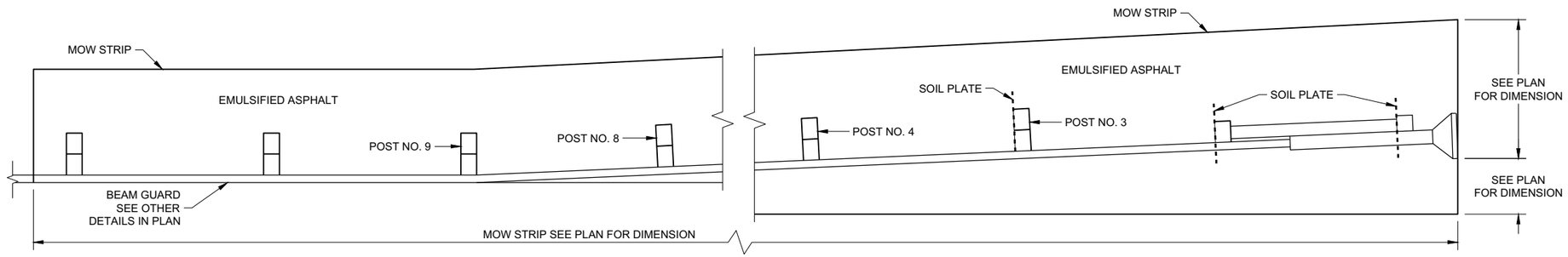
SDD 13C19 - 03



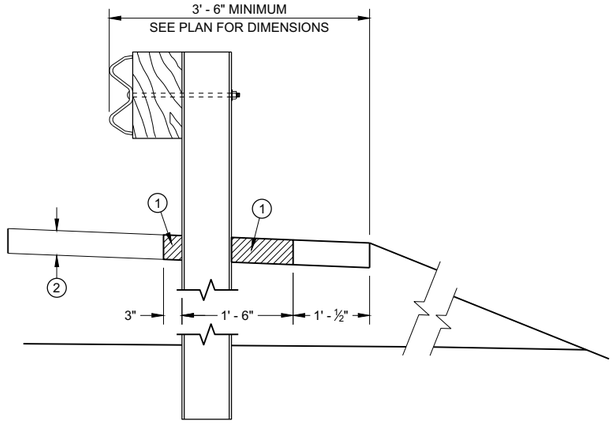
PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABSORBING TERMINAL

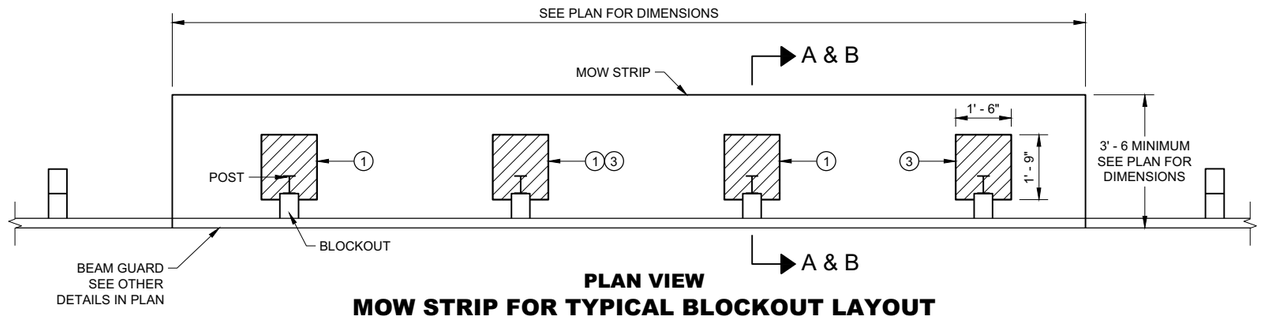
GENERAL NOTES

ONLY USE STEEL POSTS IN CONCRETE AND ASPHALT MOW STRIPS.

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

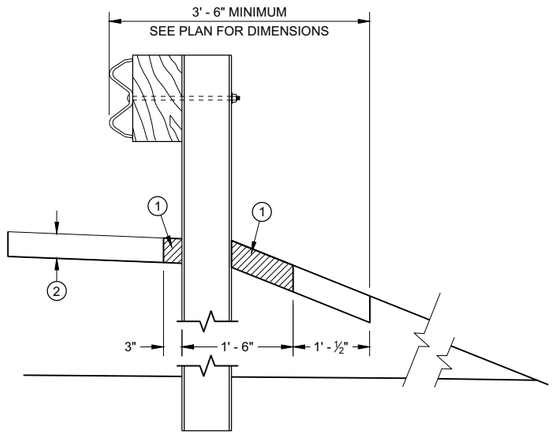


SECTION A - A

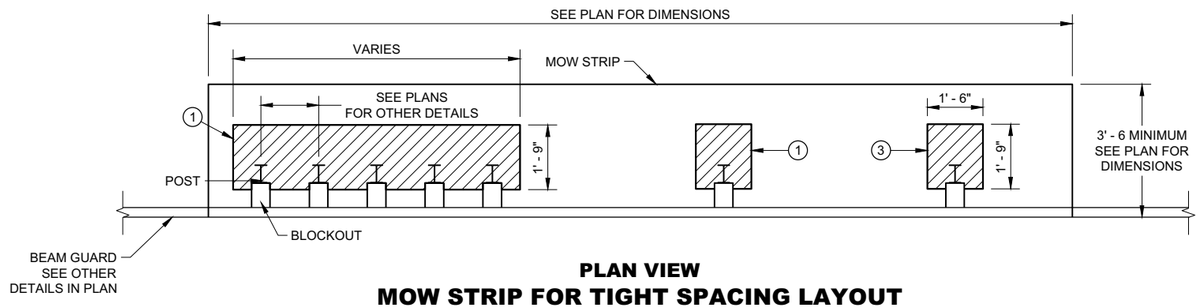


PLAN VIEW

MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT

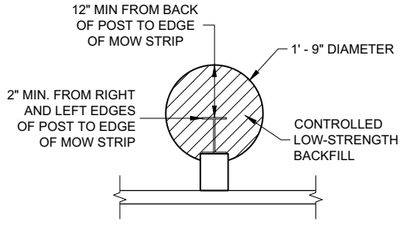


SECTION B - B

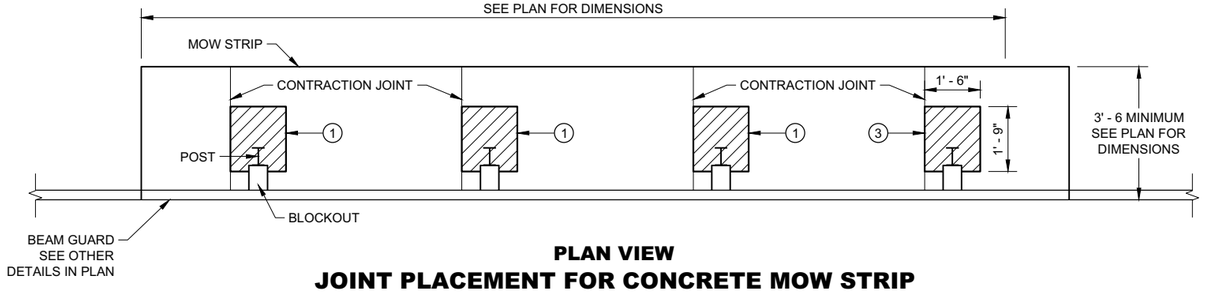


PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



ALTERNATIVE HMA MOW STRIP DESIGN



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_264

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SDD 14B28 - 04a

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SDD 14B28 - 04a

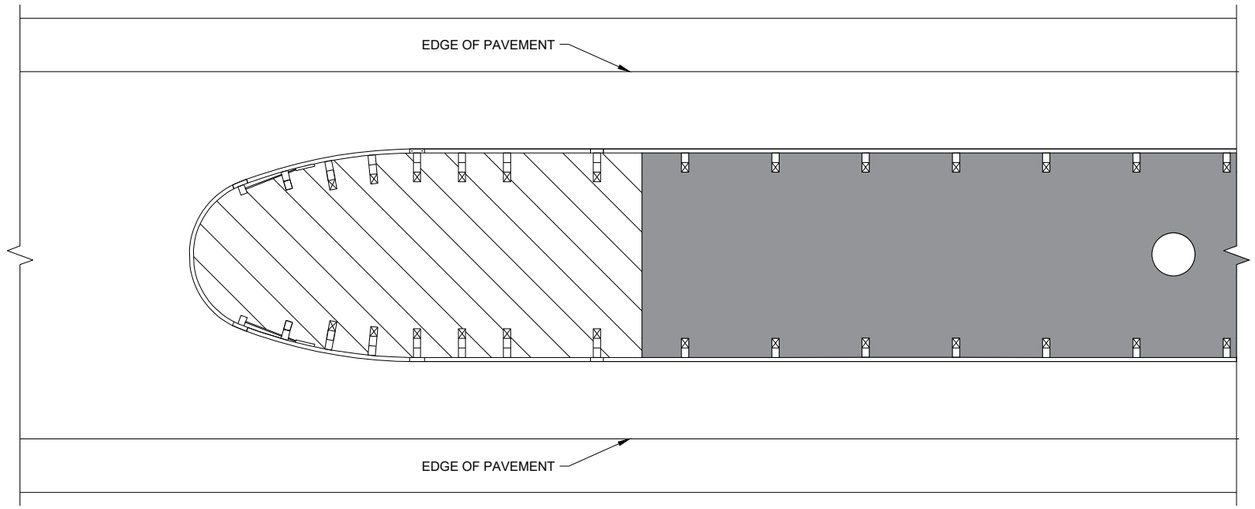
LEGEND

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

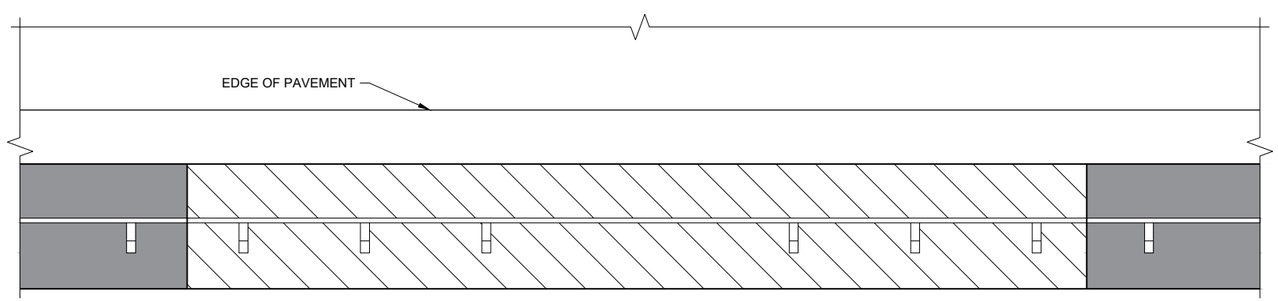
EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

GENERAL NOTES

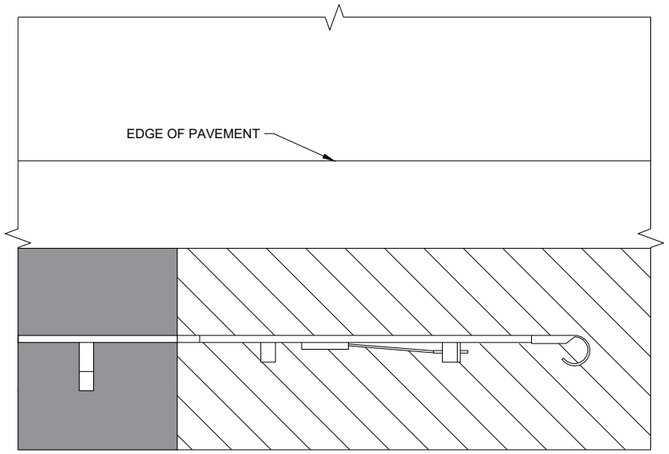
EXISTING THRIE BEAM BULLNOSES MAY HAVE WOOD POSTS. NEW THRIE BEAM BULLNOSE WILL HAVE STEEL POSTS.



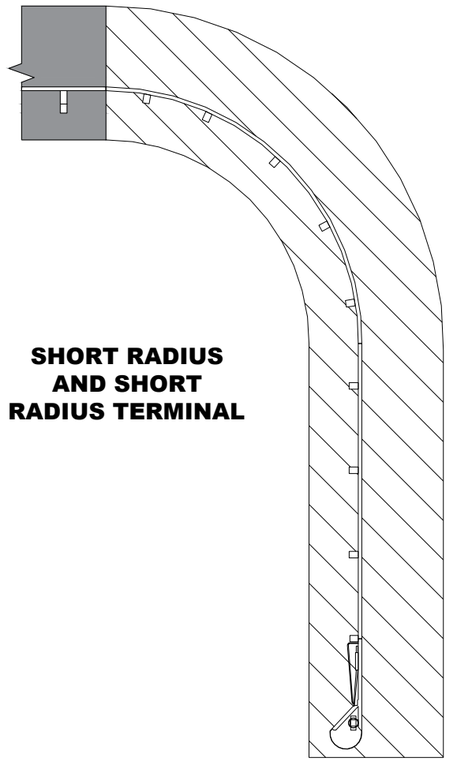
THRIE BEAM BULLNOSE



LONG - SPAN



TYPE 2 TERMINAL



SHORT RADIUS AND SHORT RADIUS TERMINAL

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Rodney Tavlor
ROADWAY STANDARDS ENGINEE

FHWA

PRE_265

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SDD 14B28 - 04b

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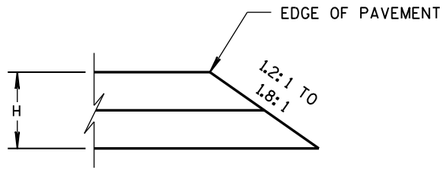
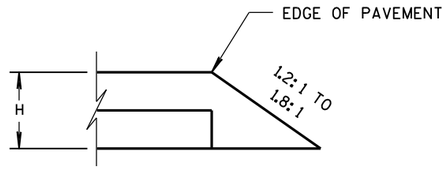
SDD 14B28 - 04b



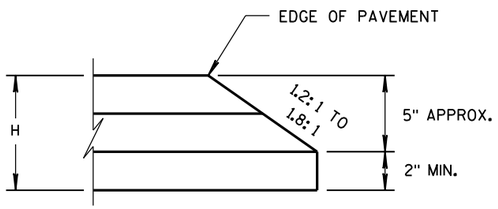
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



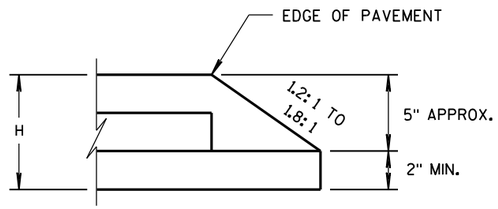
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

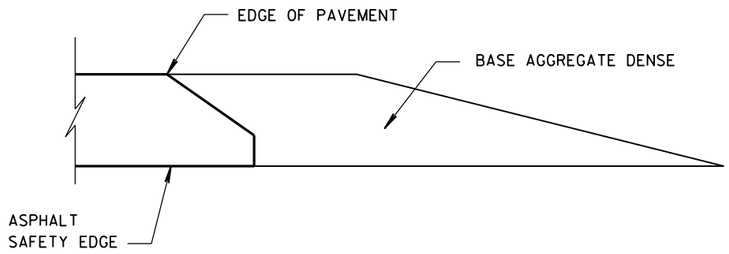
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

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S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

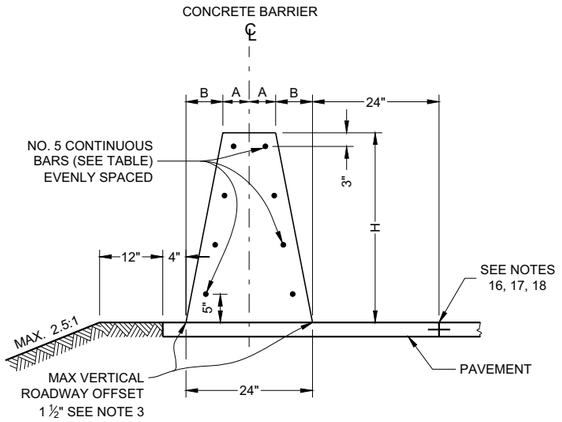
APPROVED

11/30/2012
DATE

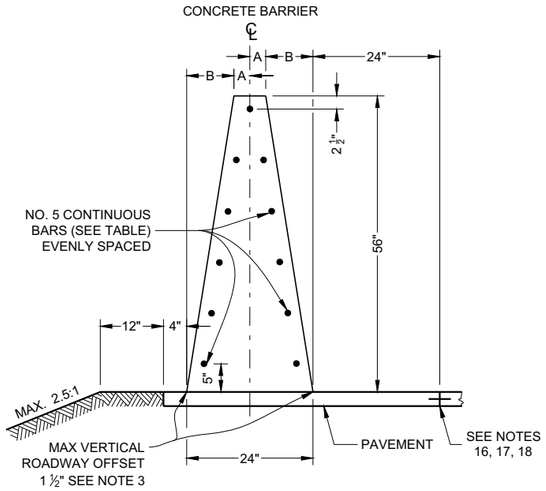
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENG

FHWA

PRE_266

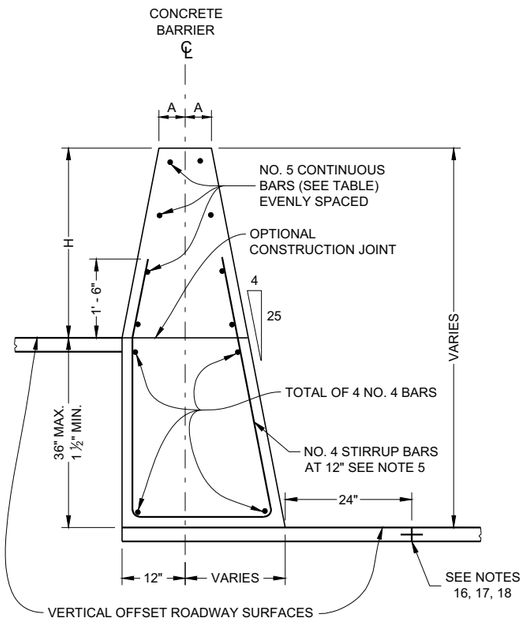


32 - INCH, 36 - INCH OR 42 - INCH SINGLE SLOPE CONCRETE BARRIER
(TYPE S32, TYPE S36, TYPE S42)

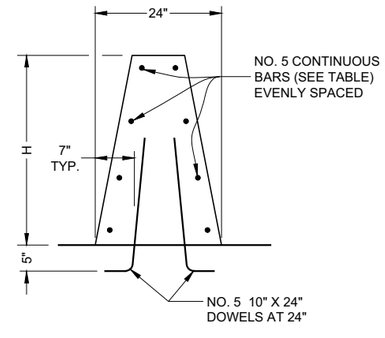


56 - INCH SINGLE SLOPE CONCRETE BARRIER
(TYPE S56)

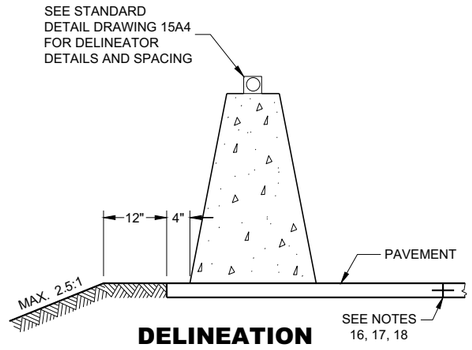
BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO. 5 BARS EACH
32	7	5	8
36	6 ¼	5 ¾	8
42	5 ¼	6 ¾	10
56	3	9	11



SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)
(BETWEEN ADJACENT ROADWAYS)



SINGLE SLOPE CONCRETE BARRIER ON BRIDGE
(NON OUTER PARAPET APPLICATION)



DELINEATION

GENERAL NOTES

1. WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.
2. EXPANSION JOINTS IN CONCRETE BARRIER SHALL BE LOCATED AT ALL DECK AND PRINCIPAL WALL JOINTS. EXPANSION JOINT FILLER MATERIAL SHALL BE THE SAME SIZE AS JOINT OF ½" MINIMUM.
3. WHERE VERTICAL ROADWAY OFFSET IS GREATER THAT 1", USE TYPE A.
4. PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.
5. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1' - 0".
6. FOR TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 MONOLITHIC FOOTING OR DOWELED FOOTING 2 - #8 X 8" @ 2'- 0".
7. STAGGER LAPPING OF LONGITUDINAL STEEL. MINIMUM OVERLAP OF STEEL 2 FEET. BARS AT LAPS TO BE FIRMLY TIED OR CONNECTED.
8. 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATION 501.
9. WHEN SWITCHING BETWEEN SLIP FORM AND CAST-IN-PLACE OPERATIONS, EXTEND LONGITUDINAL STEEL 3 FEET BEYOND SLIP FORMING CUT-OFF POINT. EXPOSED STEEL INTO NEXT POURS REINFORCEMENT. LAPS TO BE FIRMLY TIED.
10. USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
11. 2" CLEAR COVER TYPICAL
12. COLD-JOINTS MAY BE USED BETWEEN ANCHOR INSTALLATIONS. WHEN A COLD JOINT IS NEEDED, 3 FEET OF LAP OF LONGITUDINAL STEEL IS REQUIRED. LAPS TO BE FIRMLY TIED.
13. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 NO ADDITIONAL VERTICAL STEEL IS NEEDED. IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A REQUIRES VERTICAL STEEL. SEE OTHER DETAIL.
14. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 DEPTH OF FOOTING 10". IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A MATCH TOTAL HEIGHT OF SINGLE SLOPE BARRIER RETAINING WALL.
15. FOR ALL BARRIER TYPES SHOWN, ANCHOR IS REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER. ANCHOR MAY BE AS SHOWN ON DRAWING OR DETAILS SHOWN ON S.D.D. 14B33. ANCHORS INCIDENTAL TO CBSS.
16. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
17. CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAN 10'.
18. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.
19. PROVIDE A 1" DEEP, ," WIDE CONTRACTION JOINT IN BARRIER FOOTING AND BARRIER. JOINT IS TO MATCH ADJACENT CONCRETE JOINTS. IF ADJACENT TO ASPHALT, CONTRACTION JOINT IS REQUIRED EVERY 15'.

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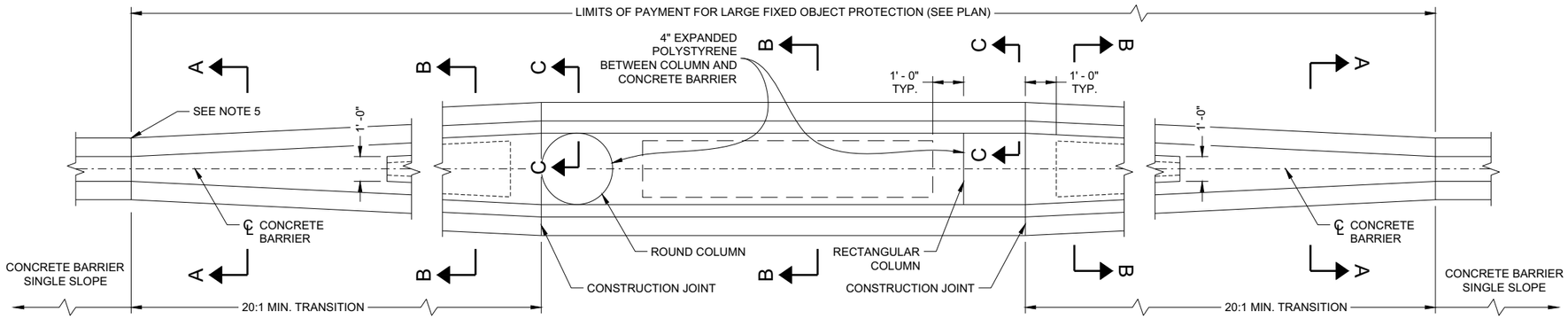
CONCRETE BARRIER SINGLE SLOPE (CBSS)

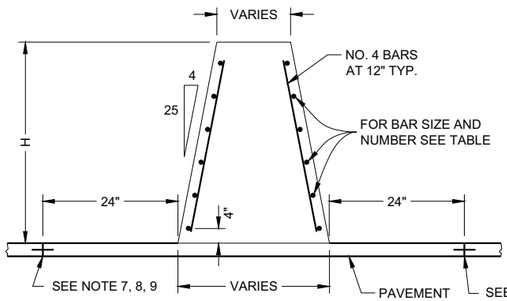
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_267

SDD 14B32 - 07a

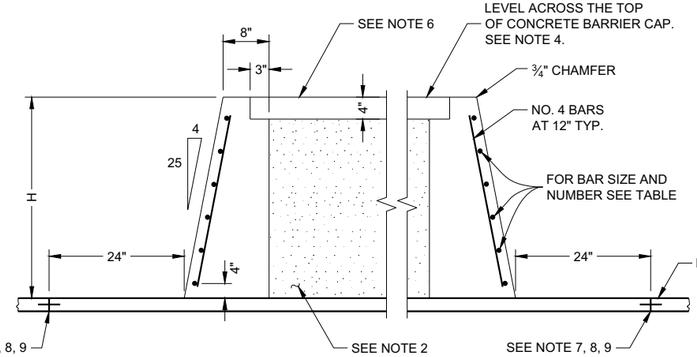


LARGE FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)

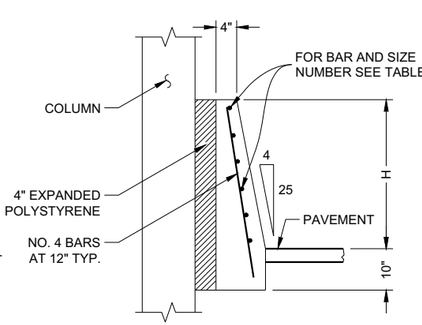
BARRIER HEIGHT H INCHES	BAR SIZE	NUMBER OF BARS EACH
32	4	6
36	4	6
42	5	6
56	5	6



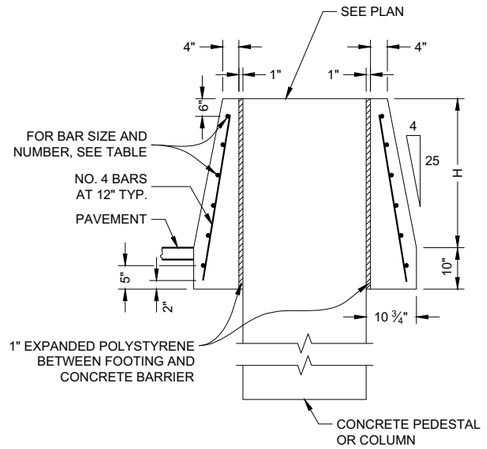
SECTION A - A



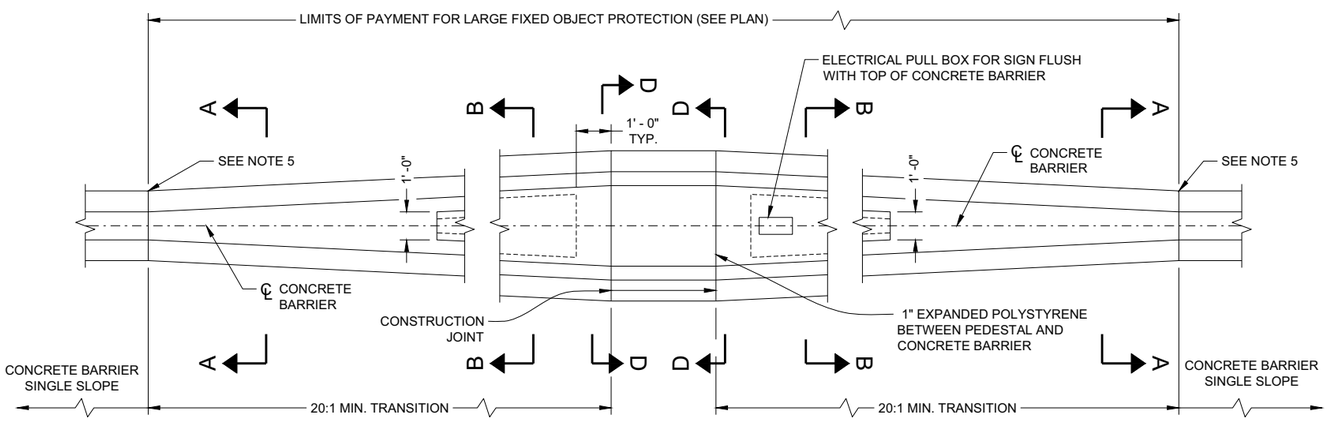
SECTION B - B



SECTION C - C



SECTION D - D



SMALL FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)

GENERAL NOTES

1. INSTALL 1 INCH DIAMETER DRAIN PIPE EVERY 20 FEET OF CROSS SECTION B -B. MINIMUM ONE DRAIN CAVITY.
2. BETWEEN CONCRETE BARRIER WALLS FILL WITH FOUNDATION BACKFILL.
3. REINFORCING STEEL SHALL EXTEND CONTINUOUS THROUGH CONSTRUCTION JOINTS.
4. ADJUST HEIGHT OF CONCRETE BARRIER WALL ON LOW SIDE OF OFFSET OR SUPERELEVATED ROADWAYS TO PROVIDE LEVEL GRADE ACROSS TOP OF CONCRETE CAP.
5. IF FIXED OBJECT PROTECTION IS INSTALLED FIRST, USE COLD JOINTS. IF CBSS PLACED FIRST, USE EXPANSION JOINT.
6. USE NO. 3 BAR SPACED 12 INCHES CENTER TO CENTER (PLACED IN EACH DIRECTION) OR EQUIVALENT WIRE MESH.
7. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED ITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
8. CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAN 10',
9. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.

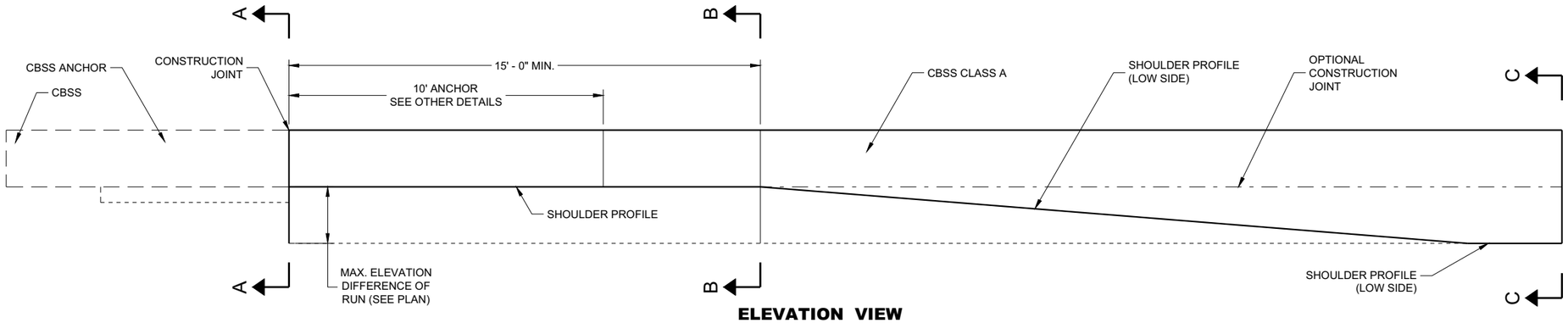
CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_268

6
SDD 14B32 - 07b

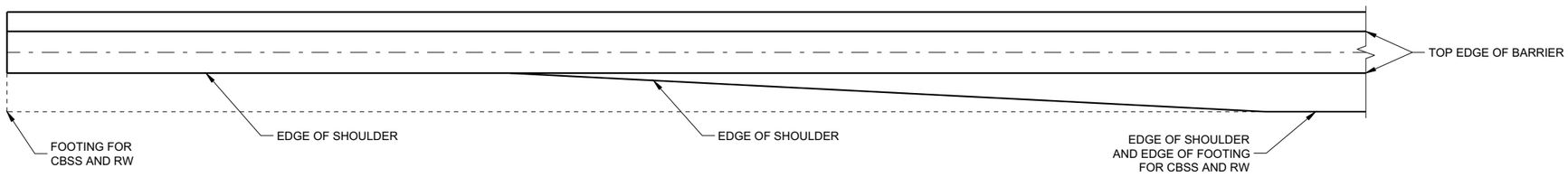
GENERAL NOTES

1. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. SEE SDD 13C18 FOR JOINT DEPTH AND WIDTH. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
2. CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAN 10',
3. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.



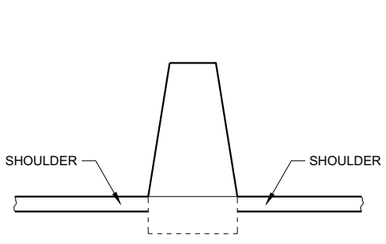
ELEVATION VIEW

TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)

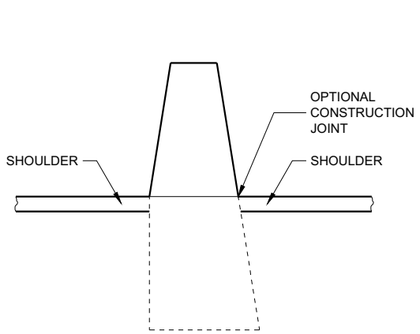


PLAN VIEW

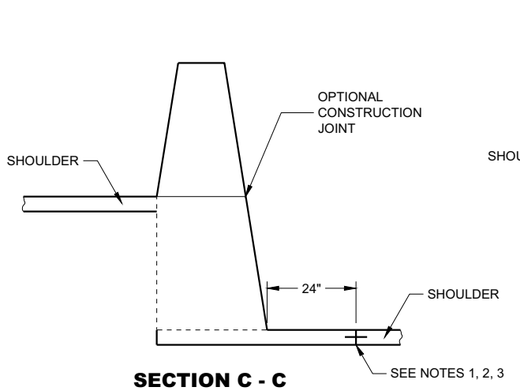
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



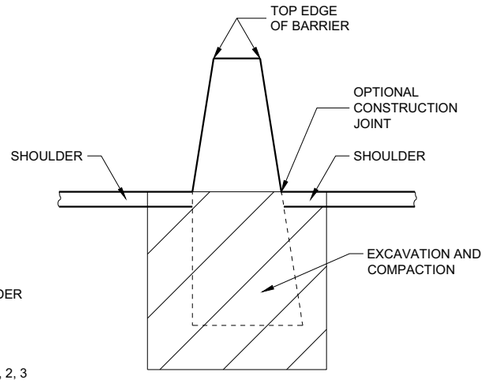
SECTION A - A



SECTION B - B



SECTION C - C



CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_269

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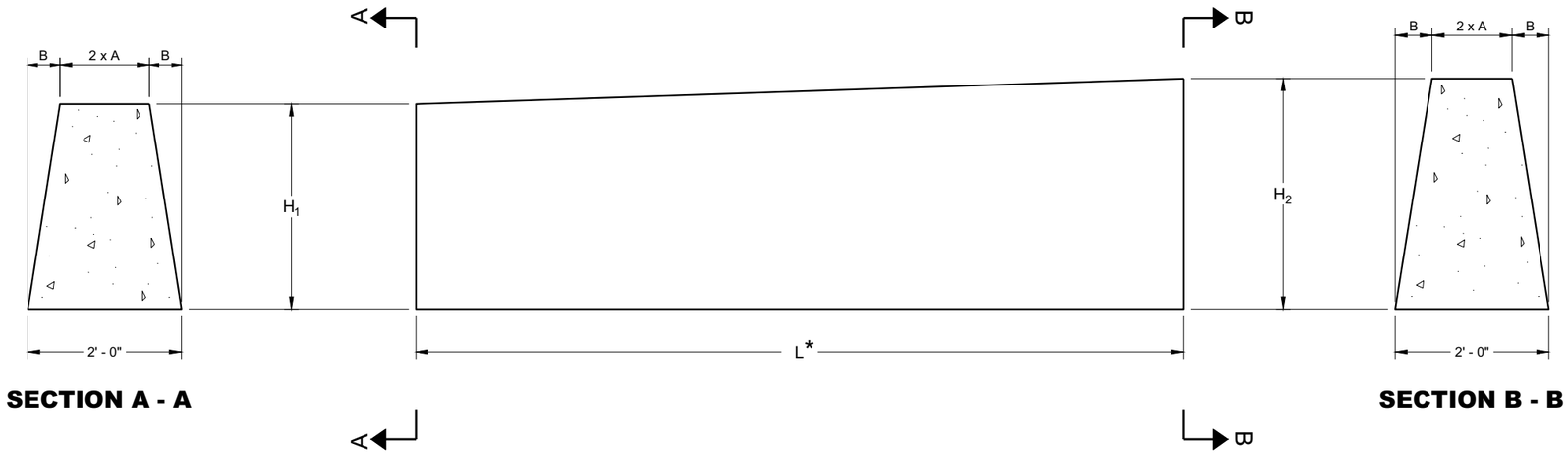
SDD 14B32 - 07c

SDD 14B32 - 07c



SECTION A - A

SECTION B - B

DOUBLE COLD JOINT HEIGHT TRANSITION

BARRIER DIMENSIONS

BARRIER HEIGHT INCHES	A INCHES	B INCHES
32	7	5
36	6 ¼	5 ¾
42	5 ¼	6 ¾
56	3	9

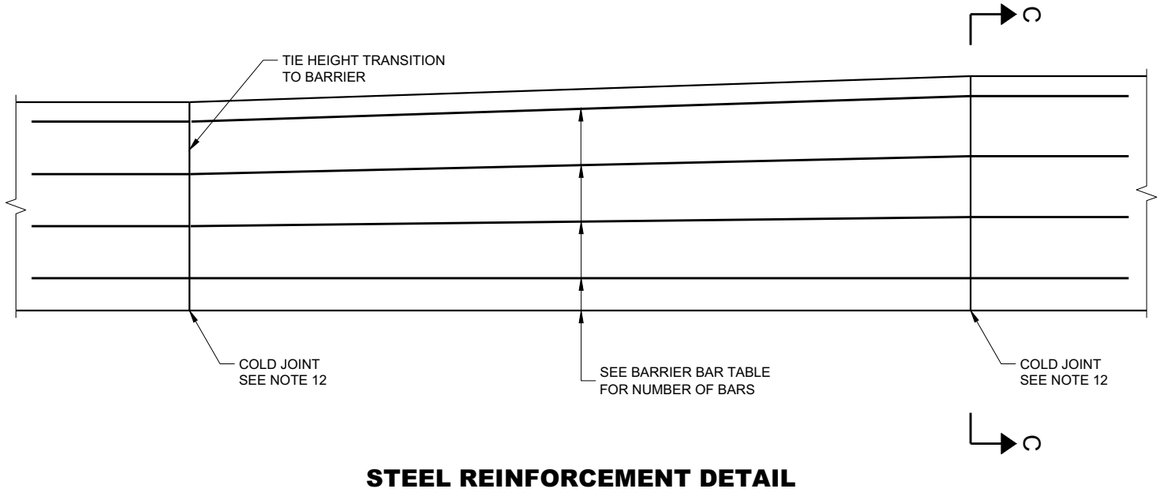
MULTIPLE HEIGHT TRANSITIONS MAY BE USED IN SEQUENCE TO GET TO APPROPRIATE HEIGHT.

USE COLD JOINT TO CONNECT MULTIPLE HEIGHT TRANSITIONS.

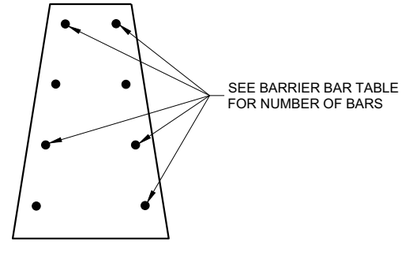
BARRIER BARS

H_1	H_2	L *	NUMBER OF NO. 5 BARS
32"	36"	10' - 0"	8
36"	42"	10' - 6"	10
42"	56"	24' - 6"	11

* LENGTH OF DOUBLE COLD JOINT INCLUDED IN THE TOTAL LENGTH OF CBSS.



STEEL REINFORCEMENT DETAIL



SECTION C-C

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Rodney Tavlor
ROADWAY STANDARDS
UNIT SUPER

FHWA

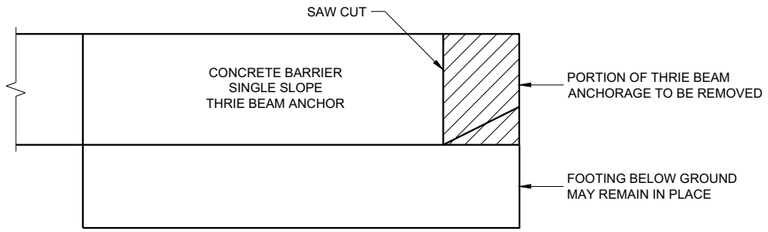
PRE_270

6

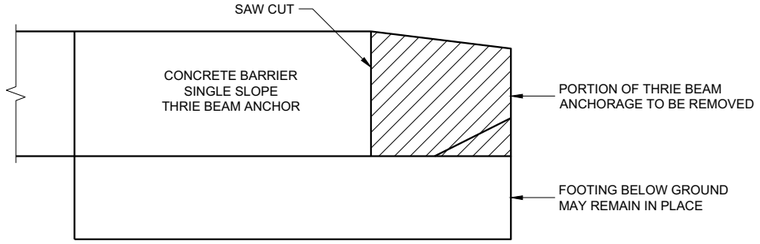
SDD 14B32 - 07d

6

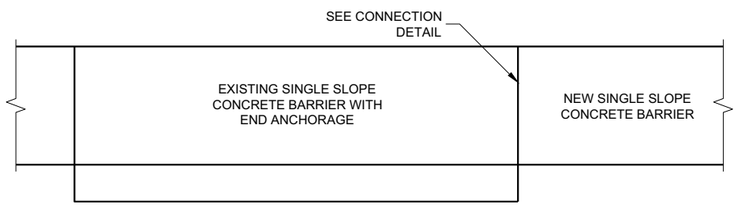
SDD 14B32 - 07d



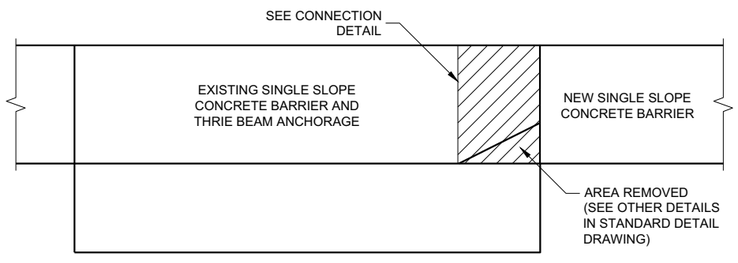
REMOVAL AREA OF
32" CONCRETE THRIE BEAM ANCHORAGE



REMOVAL AREA OF CONCRETE THRIE BEAM
ANCHORAGE WITH HEIGHT GREATER THAN 32"



ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR END ANCHORAGE



ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR THRIE BEAM TERMINAL

GENERAL NOTES

1 THE NUMBER OF DRILL HOLES IS EQUAL TO THE NUMBER OF REBAR IN BARRIER (SEE OTHER DETAILS).

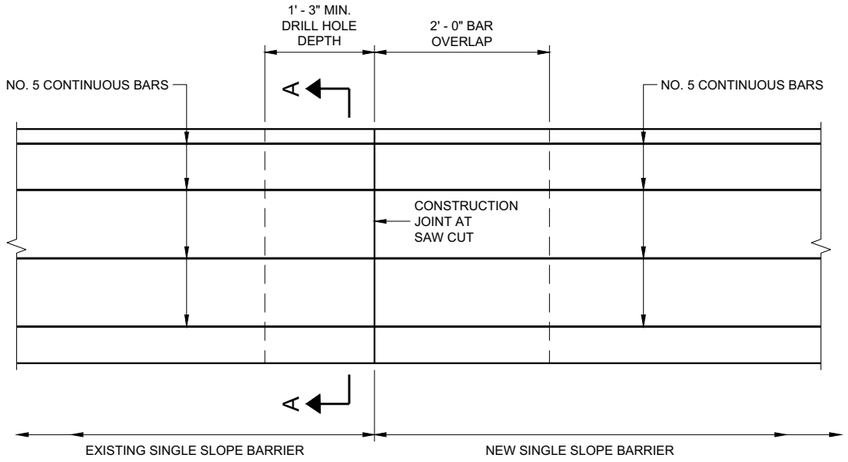
2. MINIMUM DEPTH OF DRILL HOLES IS 1' - 3".

3. DRILL HOLES TO BE A MINIMUM OF 4 INCHES FROM THE EDGE OF CONCRETE

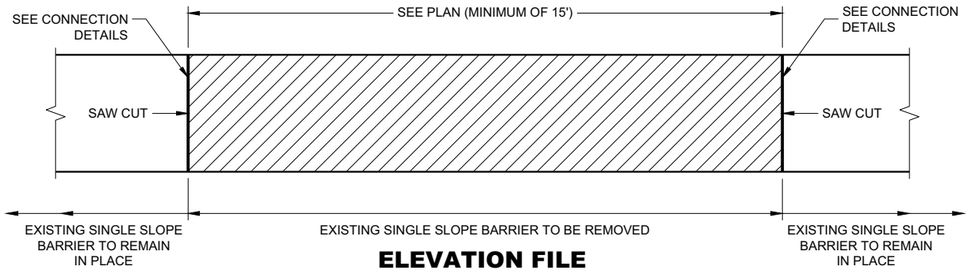
4. INSTALL EPOXY COATED NO. 5 BARS IN DRILL HOLES.

5. END ANCHORAGE MAY OR MAY NOT BE PRESENT ON EXISTING BARRIERS.

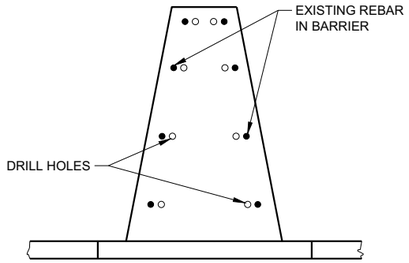
6. REMOVE THRIE BEAM ANCHORAGE AS SHOWN.



CONNECTION OF EXISTING SINGLE SLOPE CONCRETE BARRIER TO
NEW SINGLE SLOPE CONCRETE BARRIER



ELEVATION FILE
BARRIER REMOVAL AND REPLACEMENT



SECTION A-A

RETROFIT OR REPAIR SINGLE SLOPE CONCRETE BARRIER

CONCRETE BARRIER
SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPER
FHWA

PRE_271

6

SDD 14B32 - 07e

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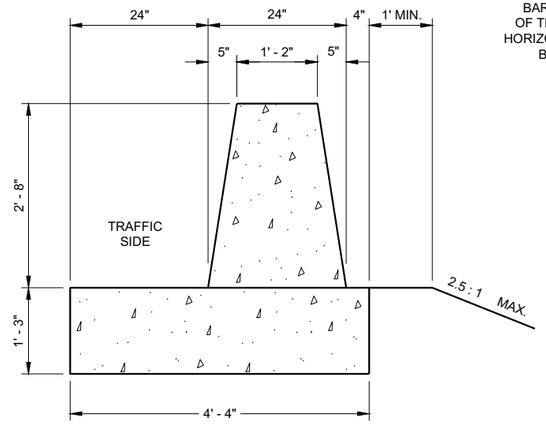
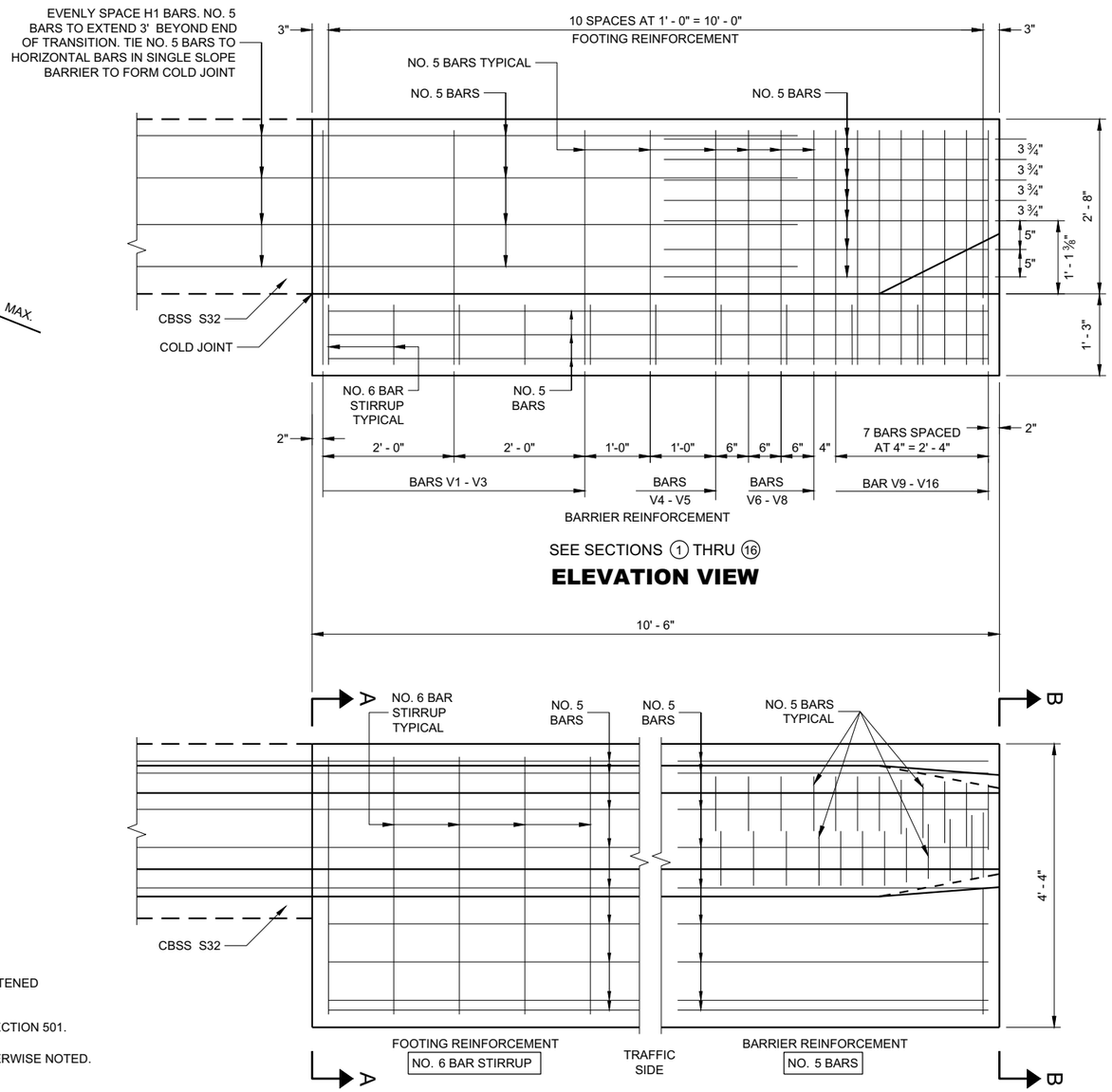
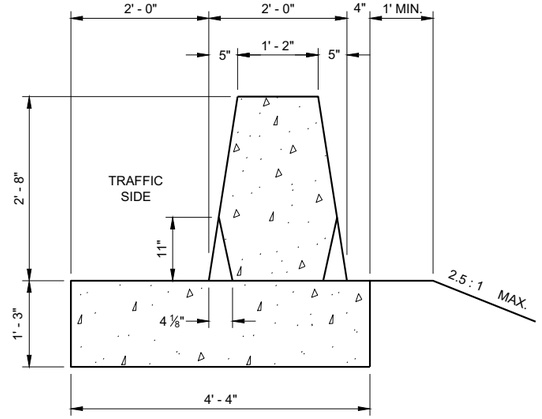
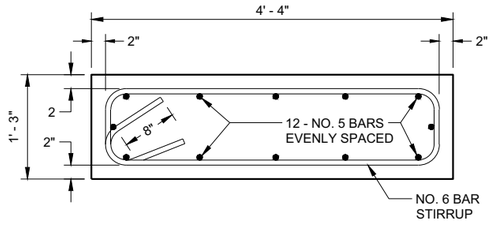
SDD 14B32 - 07e



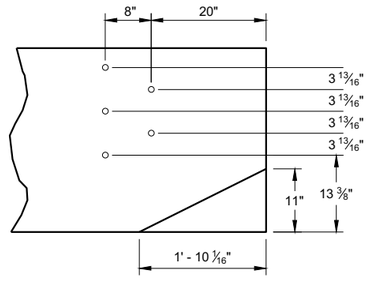




SECTION B - B



TYPICAL FOOTING



PVC PIPE LOCATIONS

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

THRIE BEAM ANCHOR INCIDENTAL TO CONCRETE BARRIER ITEM.

INSTALL SCHEDULE 40 PVC PIPE 1" DIAMETER AT LOCATIONS INDICATED.

EXTEND PVC PIPE COMPLETELY THROUGH BARRIER.

CUT ENDS OF PVC PIPE FLUSH WITH FINISHED FACE OF BARRIER.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

CONCRETE BARRIER
SINGLE SLOPE 32"
THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_272

6

SDD 14B33 - 02a

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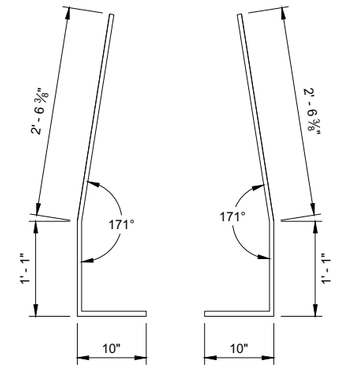
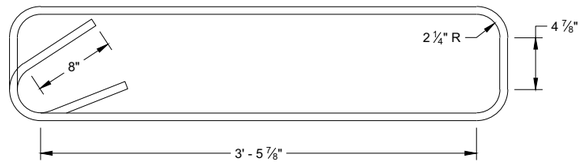
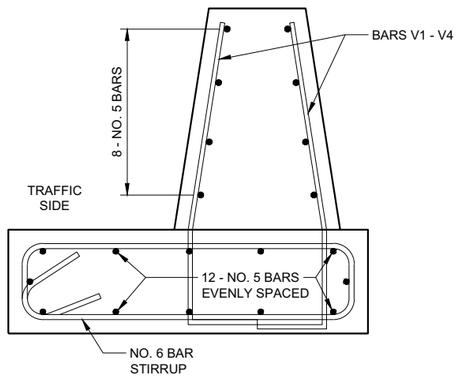


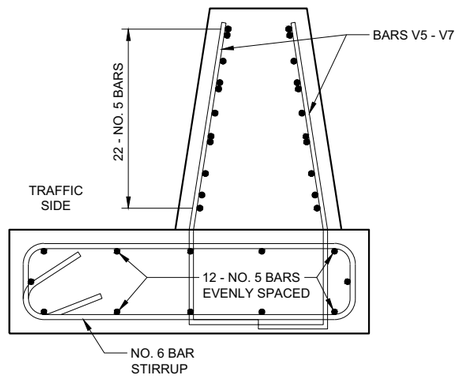
BAR BENDING DETAIL
BARS 1 - 11



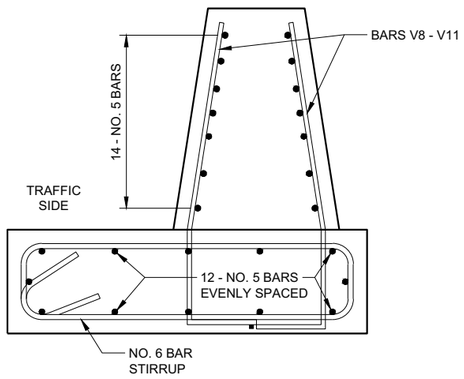
STIRRUP BAR
BENDING DETAIL



BAR DETAIL
SECTIONS 1 - 4



BAR DETAIL
SECTIONS 5 - 7



BAR DETAIL
SECTIONS 8 - 11

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SDD 14B33 - 02b

CONCRETE BARRIER
SINGLE SLOPE 32"
THRIE BEAM ANCHOR

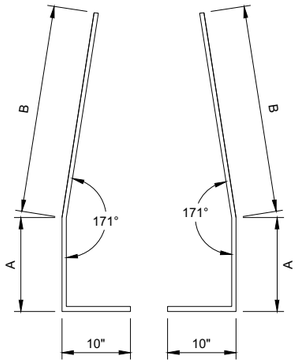
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_273

6

SDD 14B33 - 02b

BAR CHART
BAR POSITIONS
12 - 13

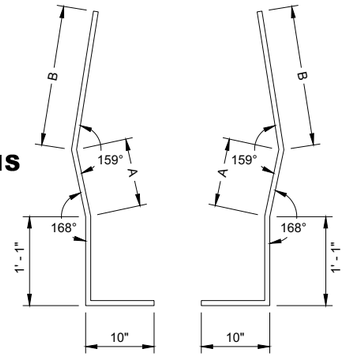
BAR	A	B
V12	1' - 3"	2' - 6"
V13	1' - 8"	2' - 1 ½"



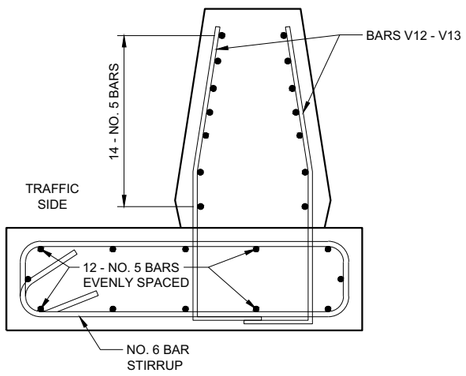
BAR BENDING DETAIL
SECTIONS V12- V13

BAR CHART
BAR POSITIONS
14 - 16

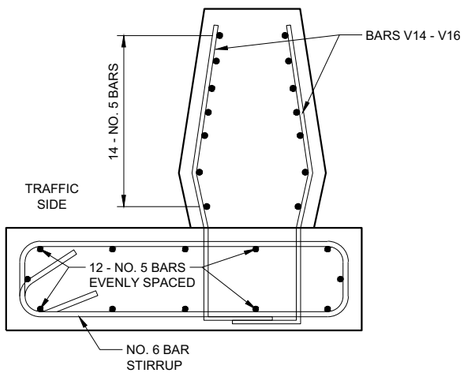
BAR	A	B
V14	6"	2' - 1"
V15	8"	1' - 11"
V16	10"	1' - 8 ½"



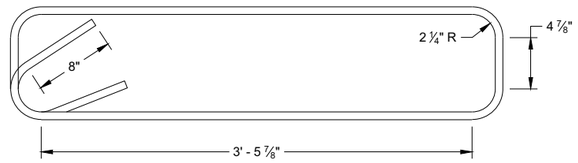
BAR BENDING DETAIL
SECTIONS V14 - V16



BAR DETAIL
SECTIONS 12 - 13



BAR DETAIL
SECTIONS 14 - 16



STIRRUP BAR
BENDING DETAIL

CONCRETE BARRIER
SINGLE SLOPE 32"
THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS ENGINEE

FHWA

PRE_274

6

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SDD 14B33 - 02c

(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.

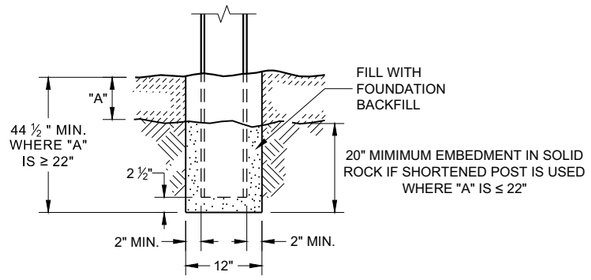
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

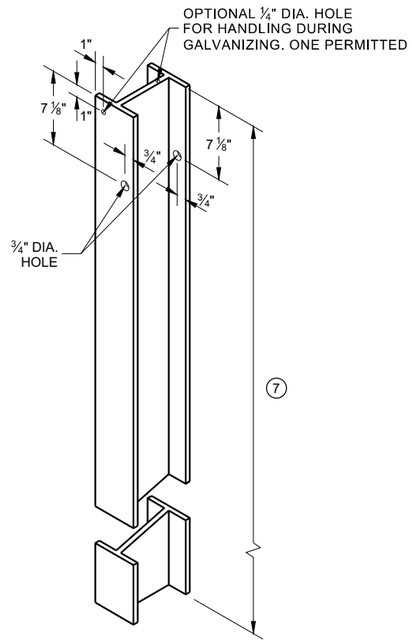
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(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.

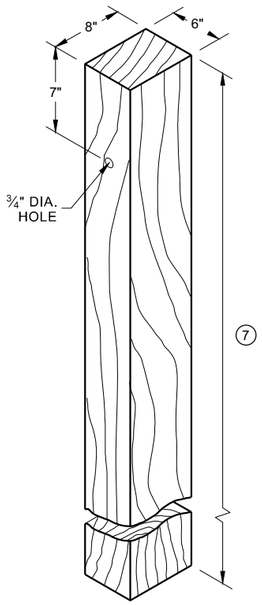
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



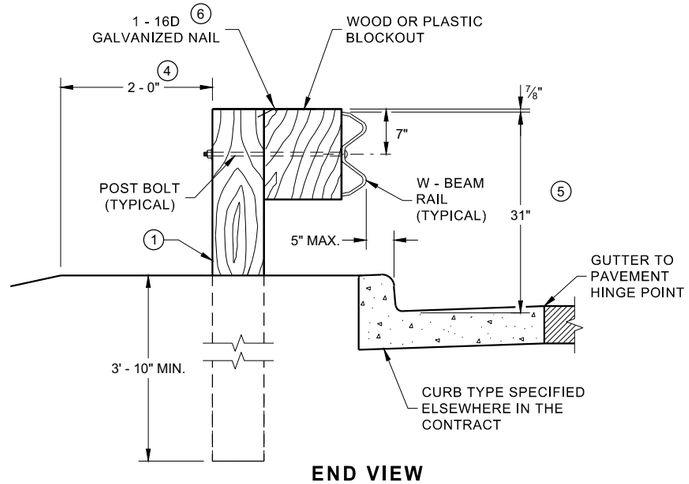
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



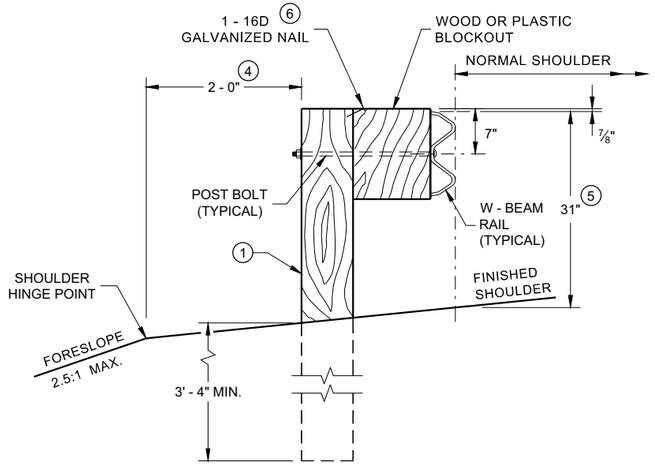
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



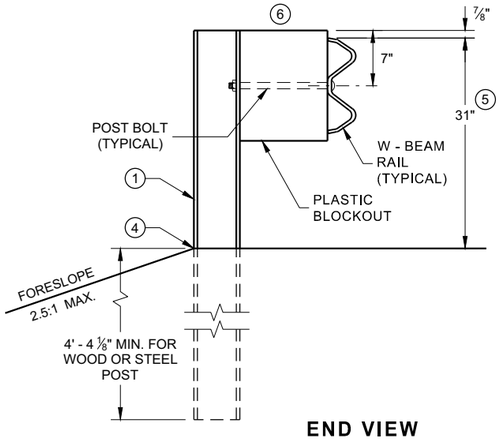
WOOD POST (6" X 8") NOMINAL (1)



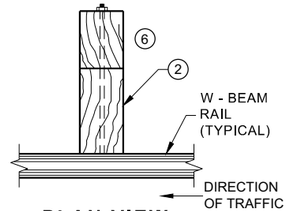
END VIEW
LOCATED ALONG A CURBED ROADWAY



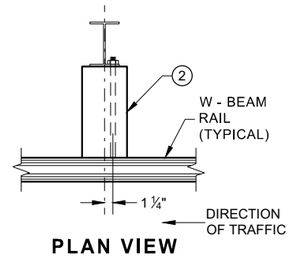
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



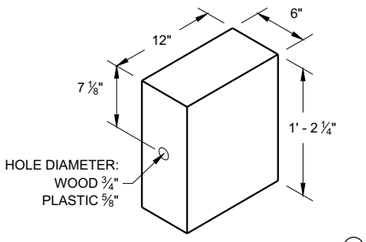
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



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 TRANSPO PRE_275

6

SDD 14B42 - 06a

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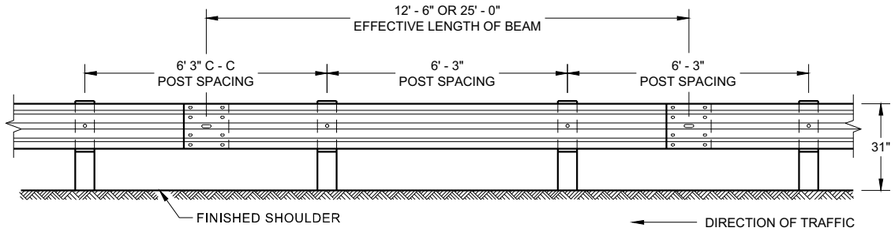
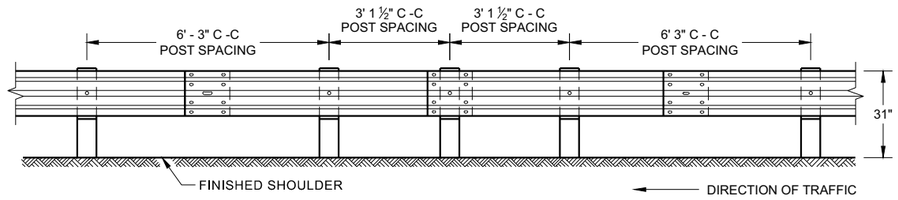
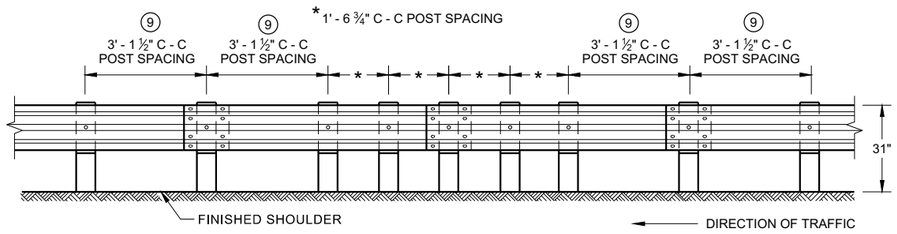
SDD 14B42 - 06a



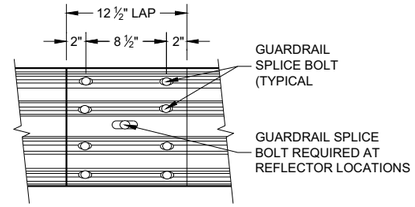
FRONT VIEW
POST SPACING STANDARD INSTALLATION



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



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

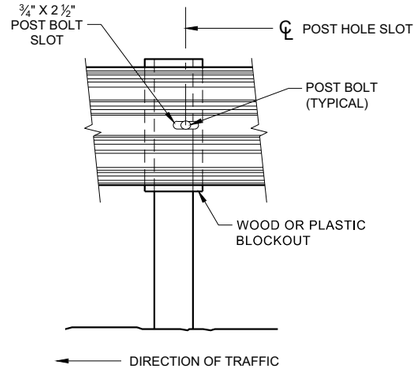
GENERAL NOTES

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

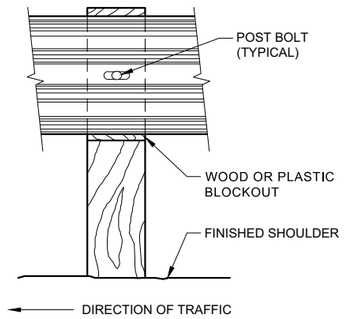
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

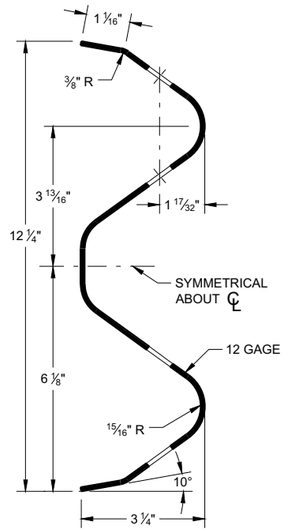
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



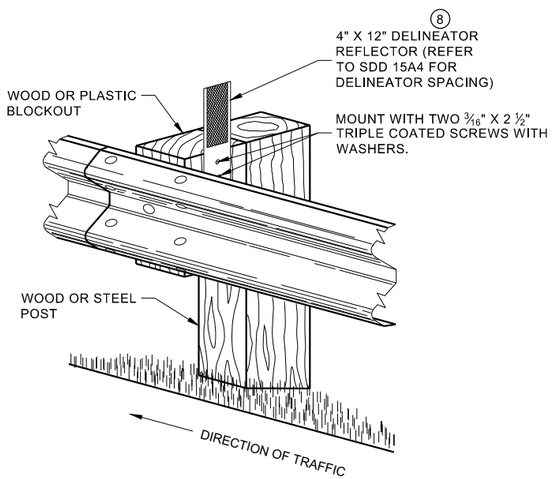
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_276

6

SDD 14B42 - 06b

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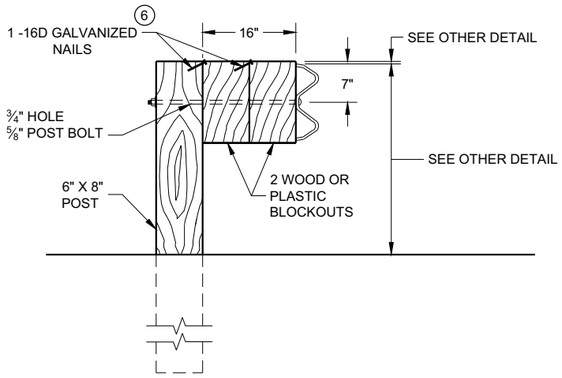
SDD 14B42 - 06b

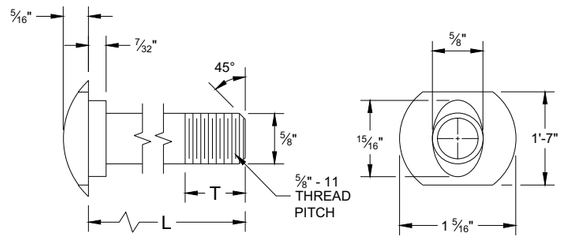


DETAIL FOR 16" BLOCKOUT DEPTH

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

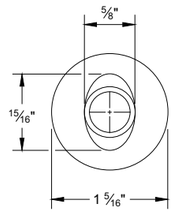
NOTE:

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

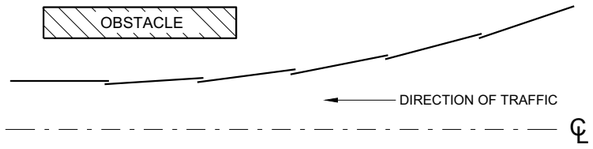


POST BOLT TABLE

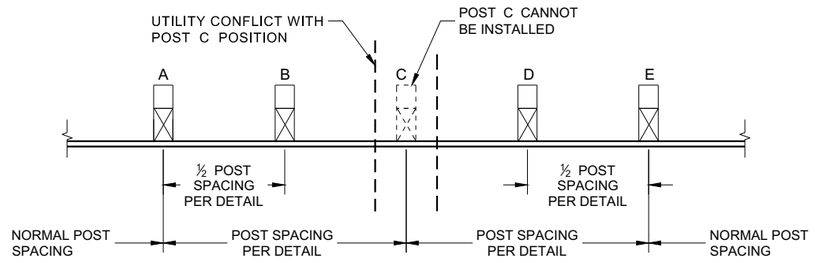
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



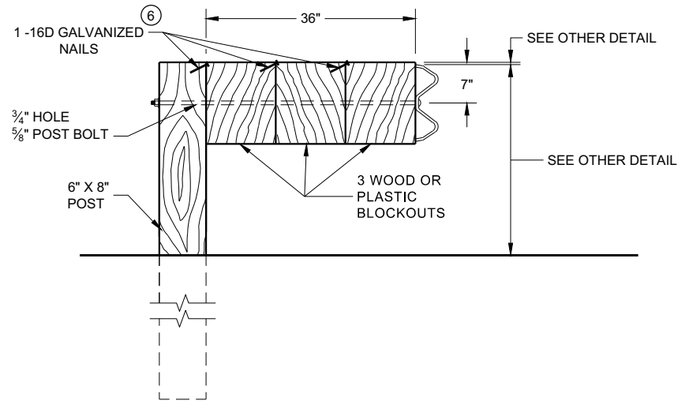
ALTERNATE BOLT HEAD



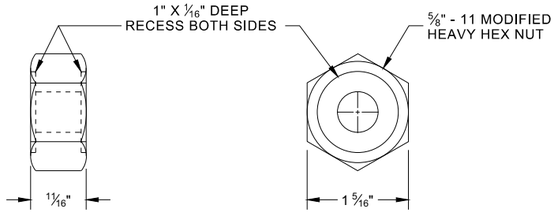
PLAN VIEW
BEAM LAPPING DETAIL



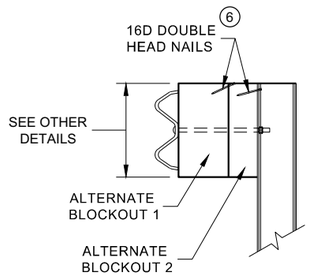
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



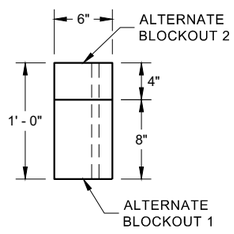
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

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

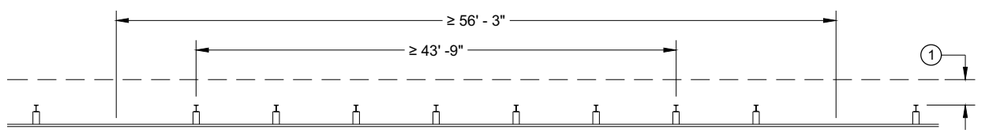
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

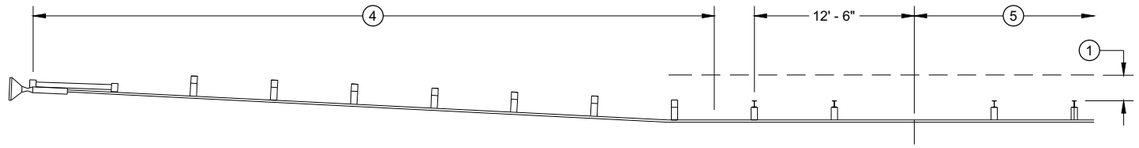
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_277

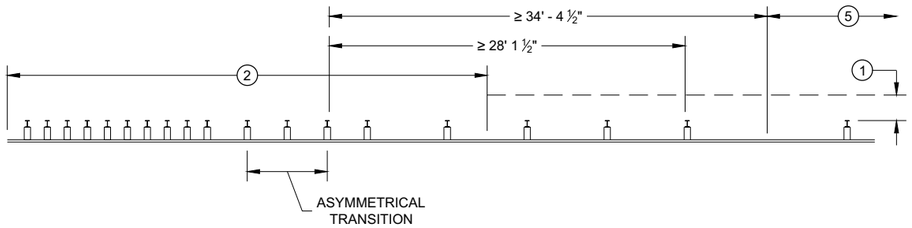
6
SDD 14B42 - 06c



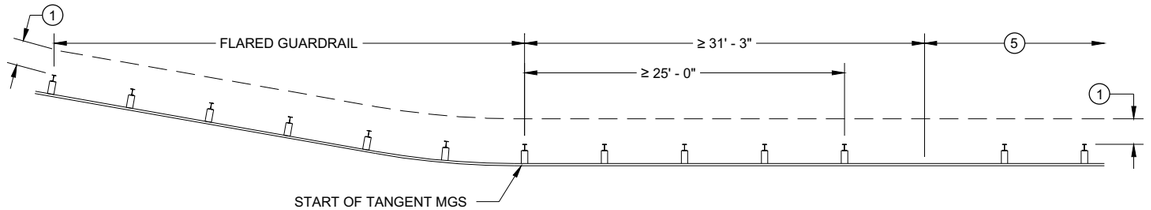
MISSING POST IN NORMAL BEAM GUARD RUN



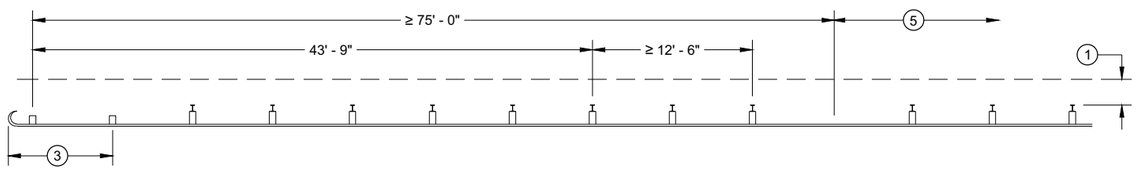
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



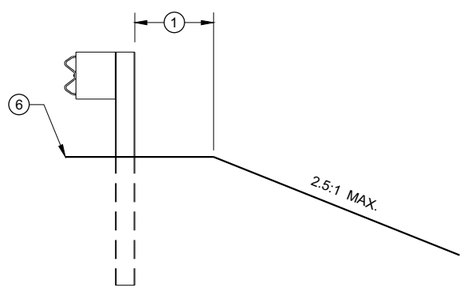
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Tavlor
ROADWAY STANDARDS
UNIT SUPER
PRE_278
FHWA

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SDD 14B42 - 06d

6

SDD 14B42 - 06d

GENERAL NOTES

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

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

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

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

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

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

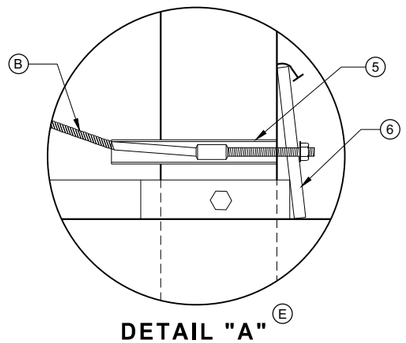
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

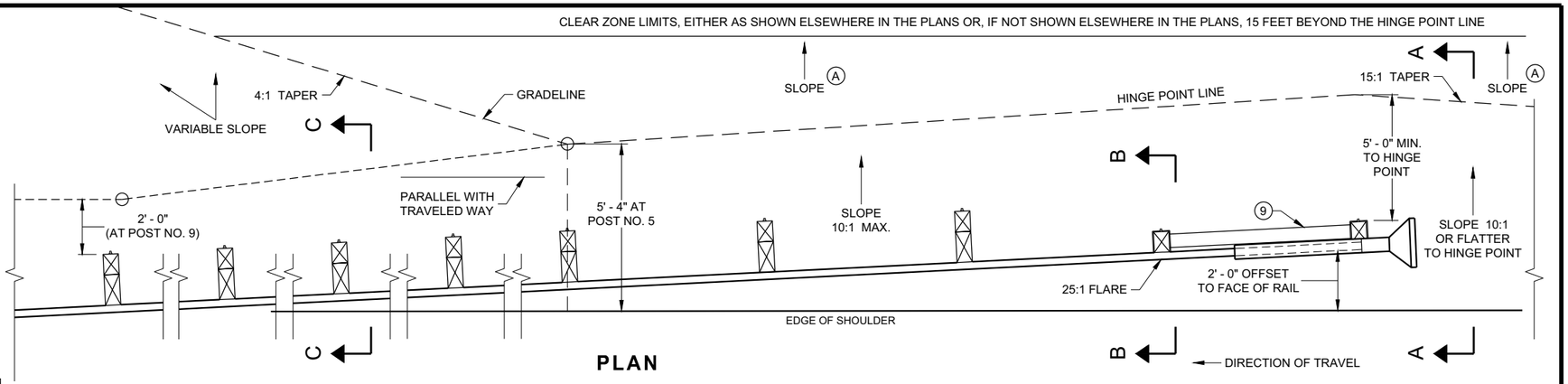
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

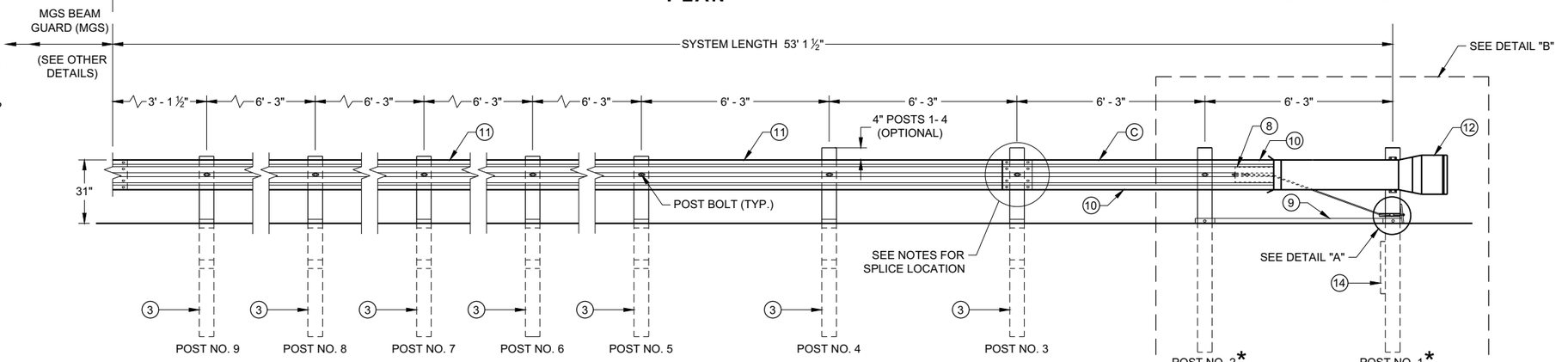
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



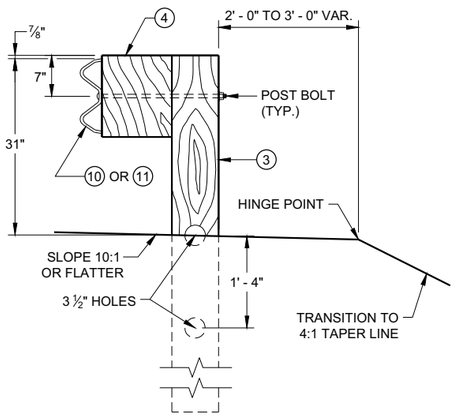
DETAIL "A" (E)



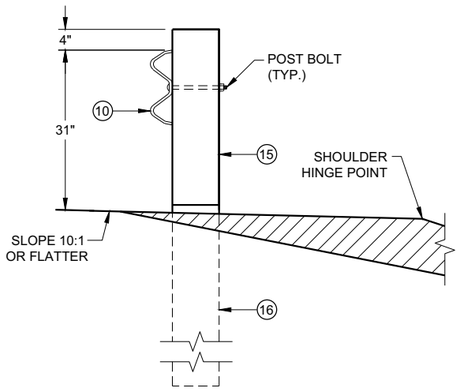
PLAN



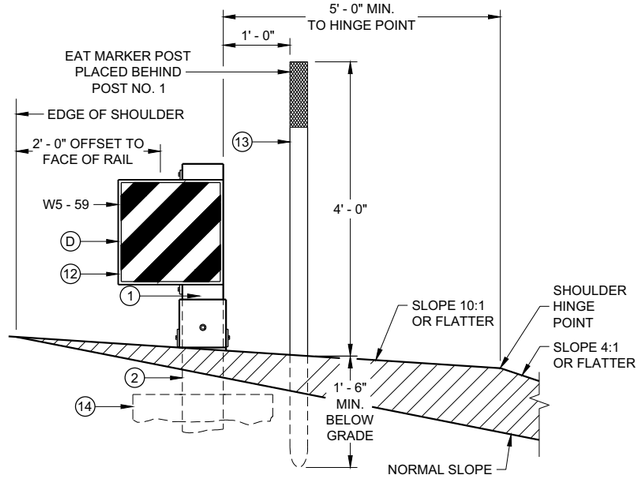
ELEVATION



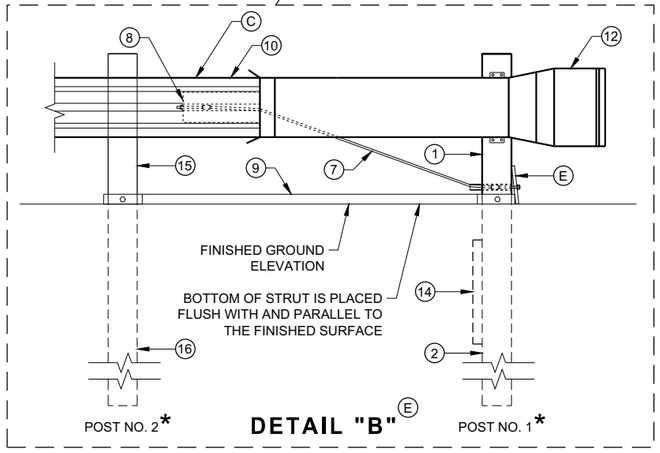
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_279

SDD 14B44 - 04a

SDD 14B44 - 04a

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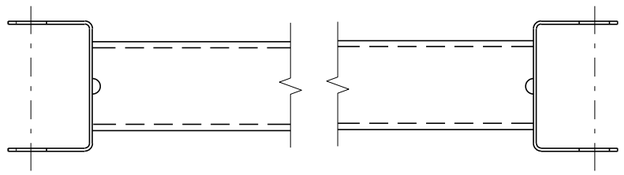
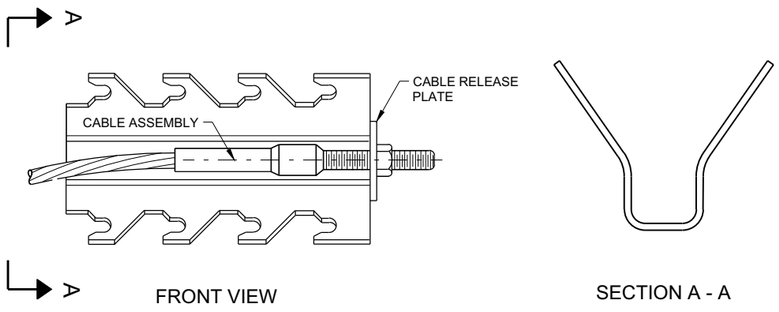
BILL OF MATERIALS

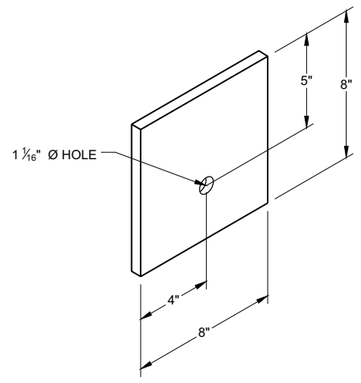
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
1	UPPER POST NO. 1 6" X 6" TUBE
2	LOWER POST NO. 1
3	WOOD CRT
4	WOOD BLOCKOUT
5	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL 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 GROUND STRUT (9) (E)



GENERIC ANCHOR CABLE BOX (9) (E)



BEARING PLATE (6) (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

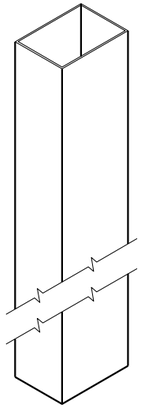
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_280

6

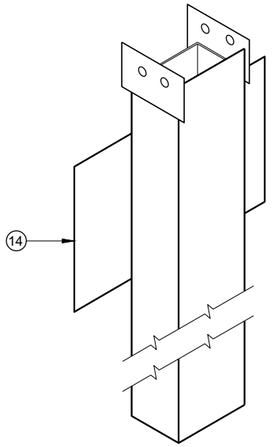
SDD 14B44 - 04b

6

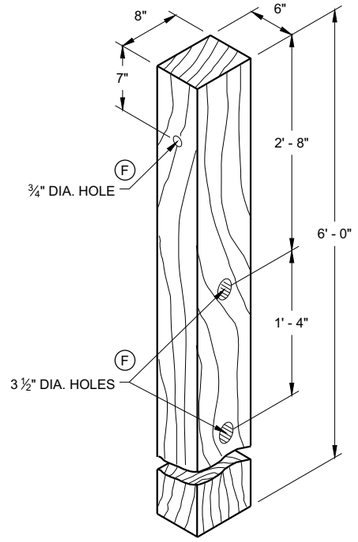
SDD 14B44 - 04b



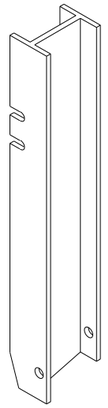
UPPER POST NO. 1 (1) (E)



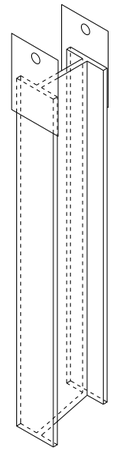
LOWER POST NO. 1 (2) (E)



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



UPPER POST NO. 2 (15) (E)



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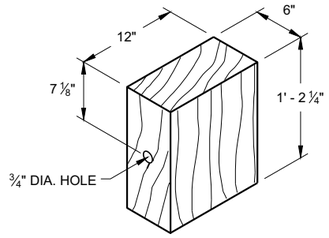
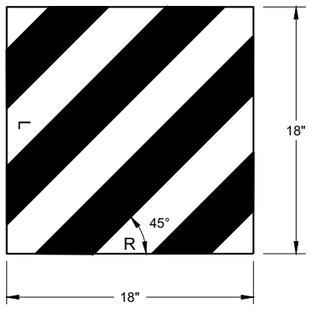


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



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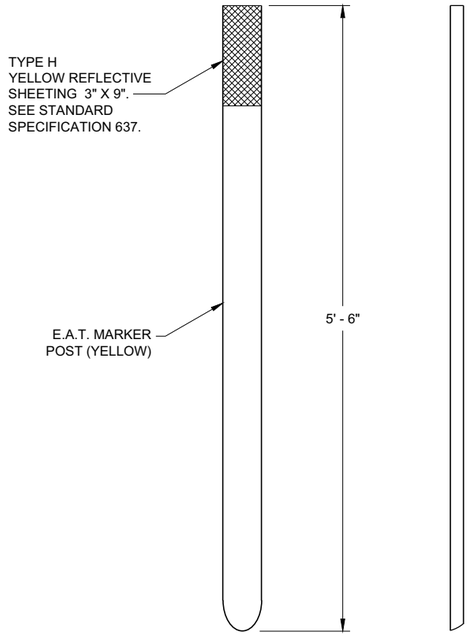
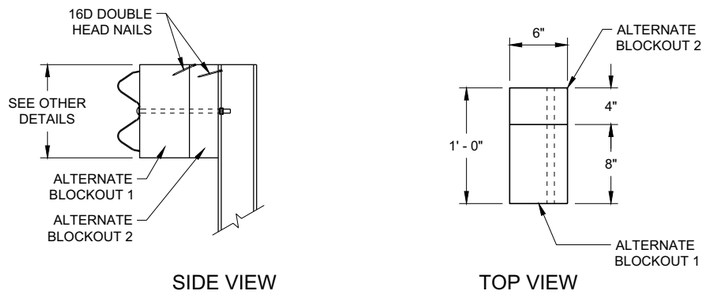
REFLECTIVE SHEETING DETAIL (E)



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 UNIT SUPER
FHWA

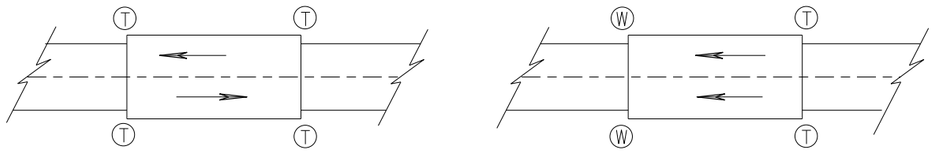
PRE_281

6

6

SDD 14B44 - 04c

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.

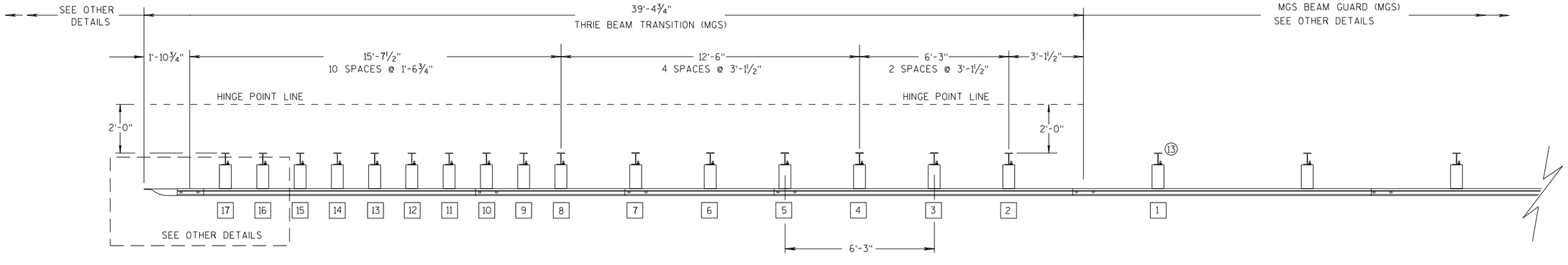
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

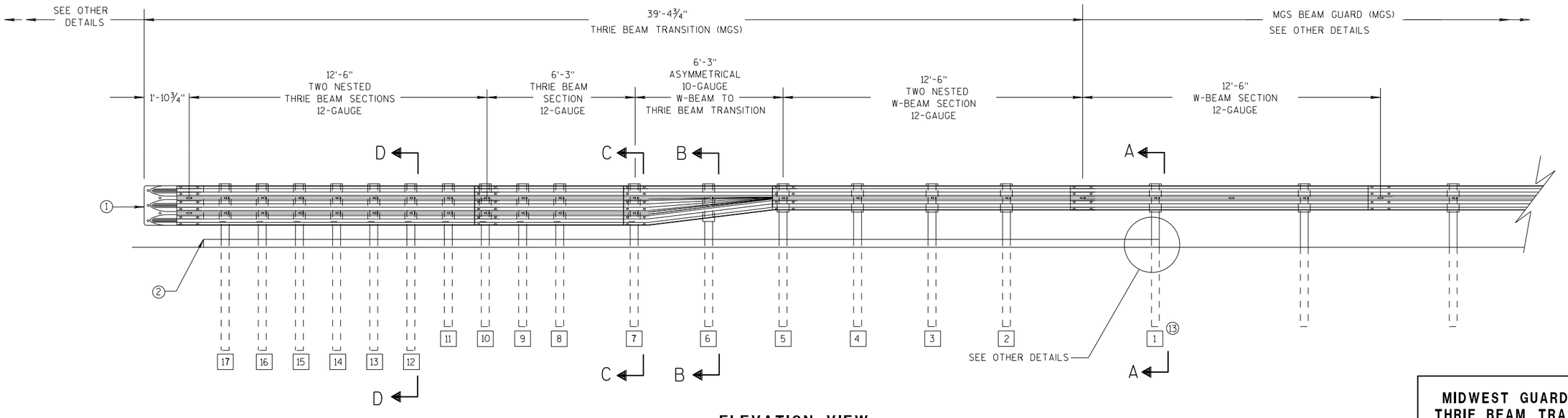
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(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 TRANS

PRE_282

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S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

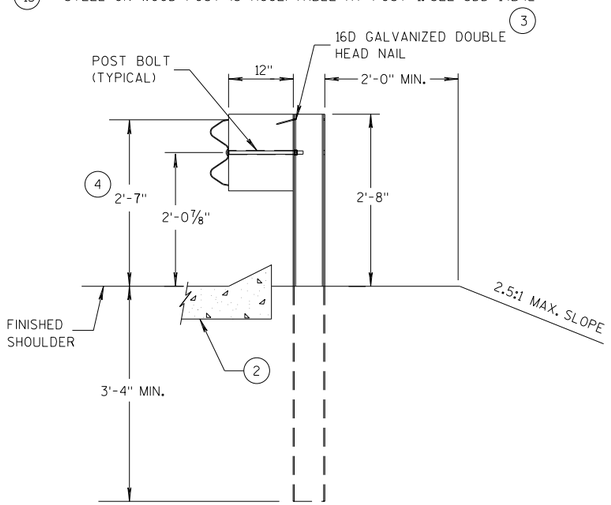
GENERAL NOTES

(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.

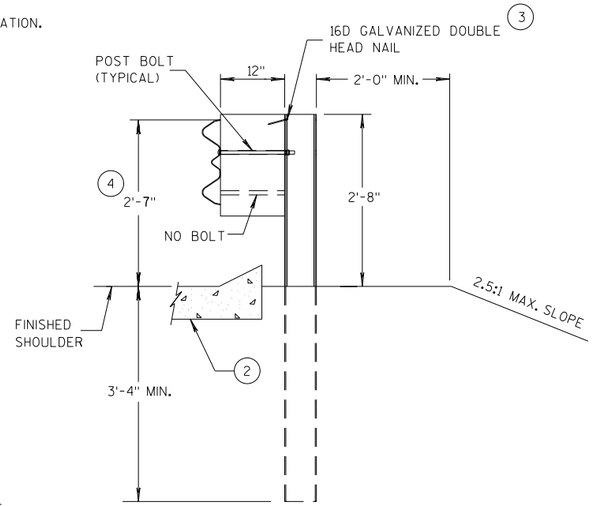
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



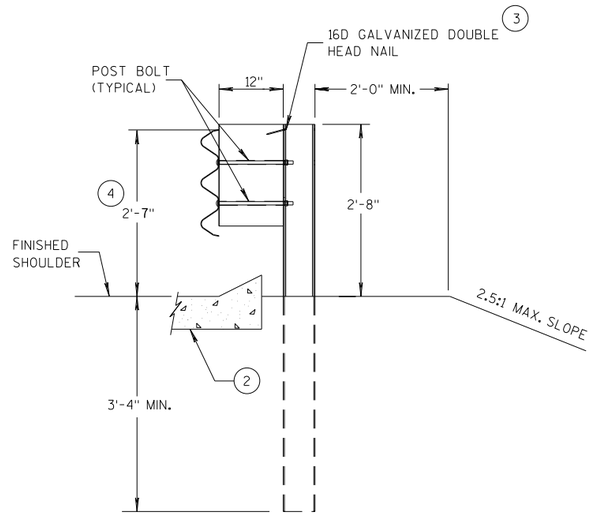
SECTION A-A (13)

POSTS 1-5



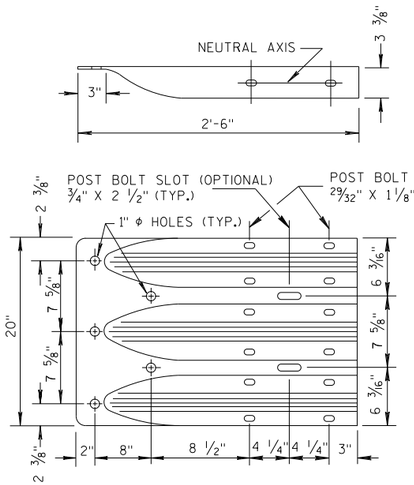
SECTION B-B

POST 6

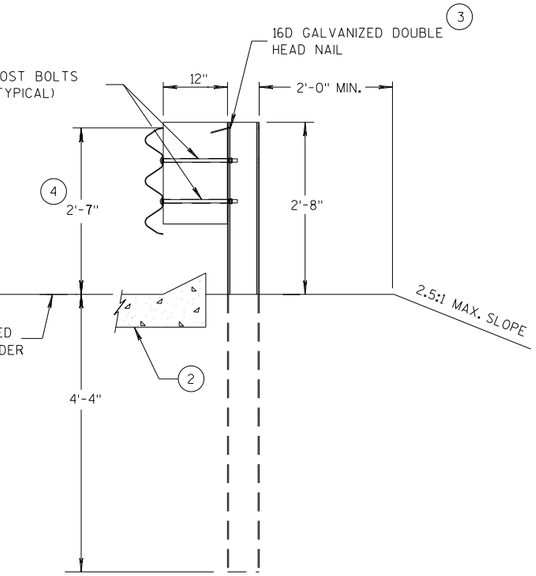


SECTION C-C

POSTS 7-11

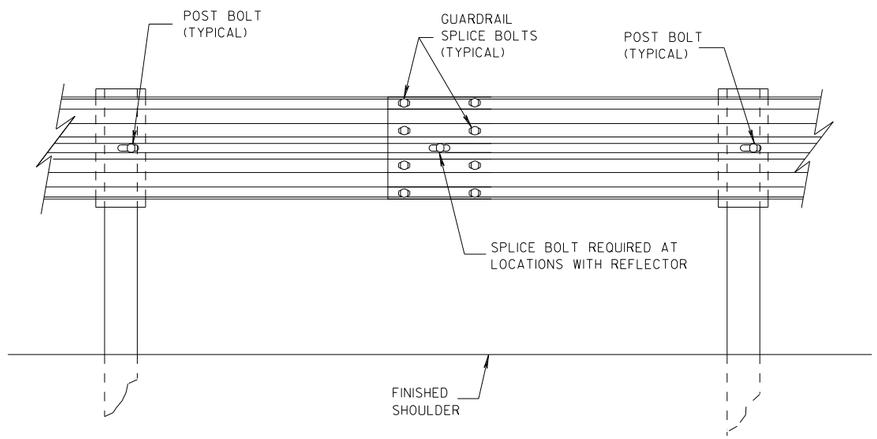


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

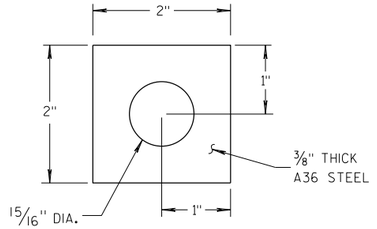
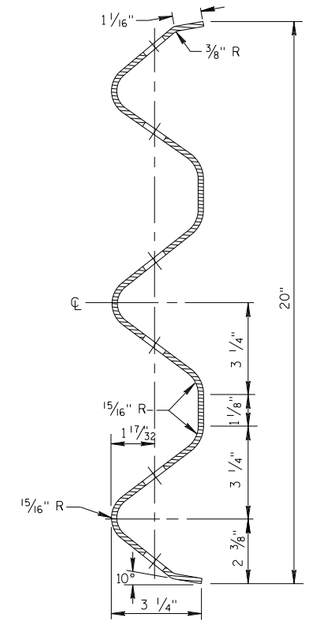


PLATE WASHER DETAIL



SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANS

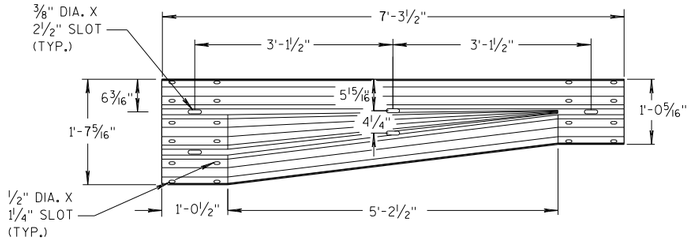
PRE_283

6

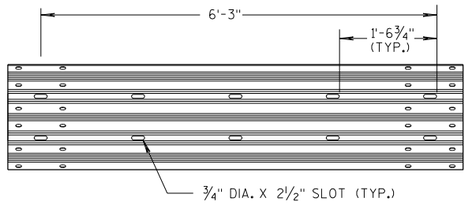
S.D.D. 14 B 45-5b

6

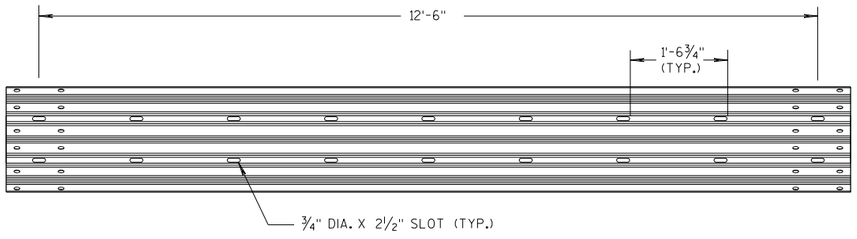
S.D.D. 14 B 45-5b



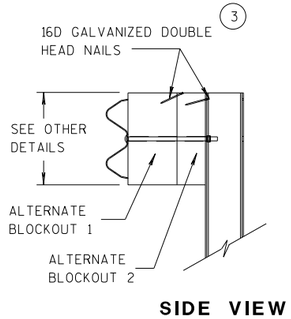
W-BEAM TO THRIE BEAM TRANSITION SECTION



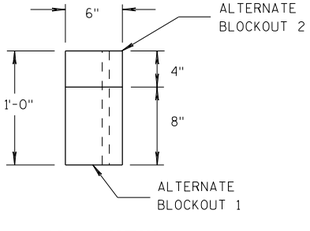
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

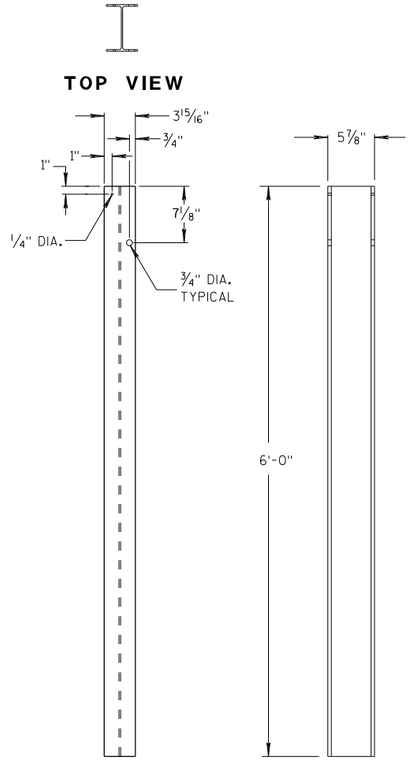


SIDE VIEW



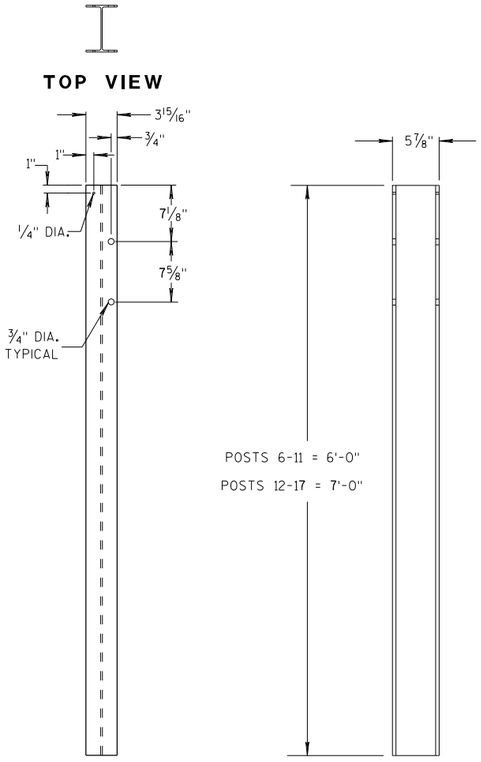
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



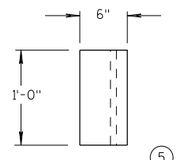
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

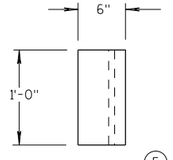


FRONT VIEW SIDE VIEW

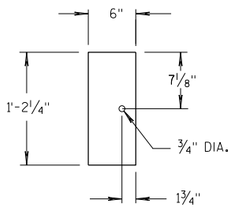
STEEL POSTS 6-17



TOP VIEW (5)

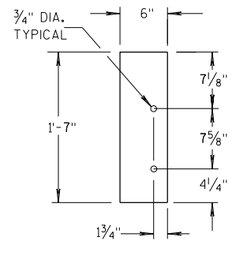


TOP VIEW (5)



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 TRANS

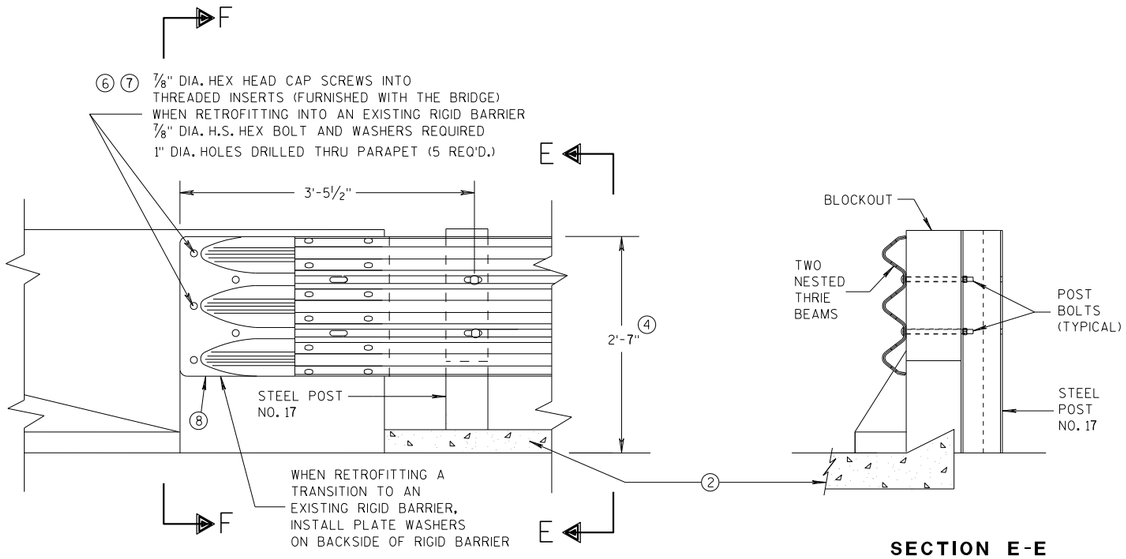
PRE_284

6

S.D.D. 14 B 45-5c

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.

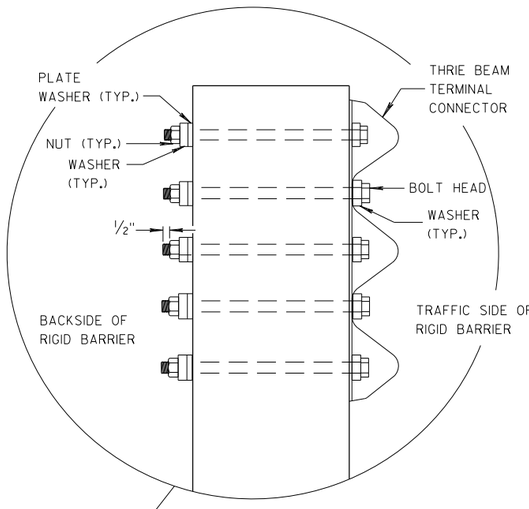
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

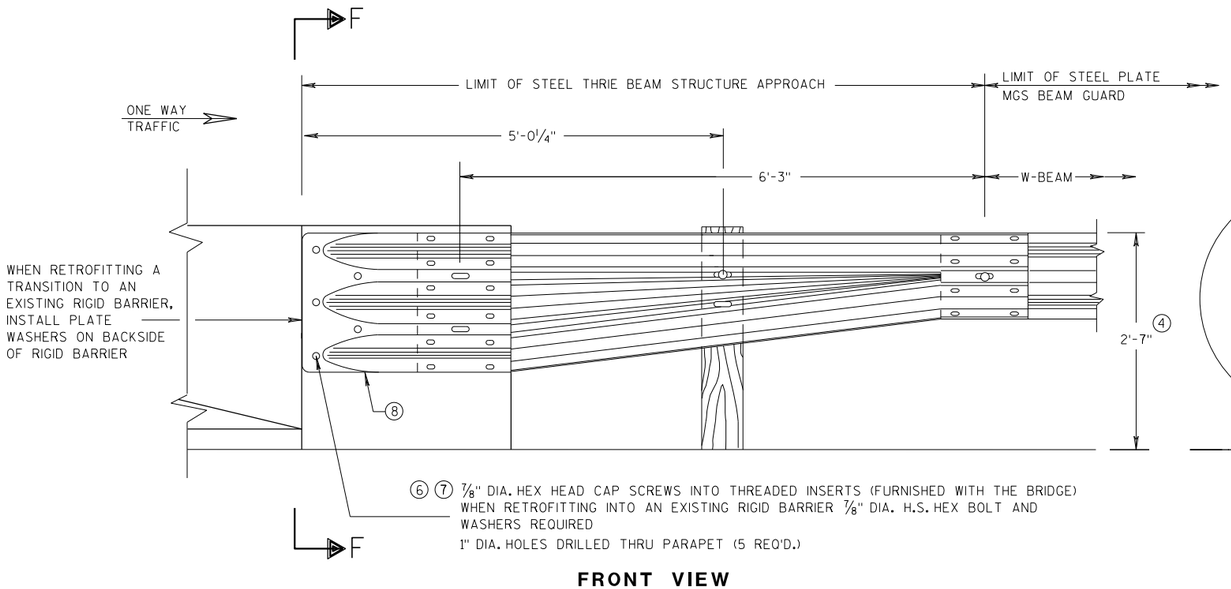
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

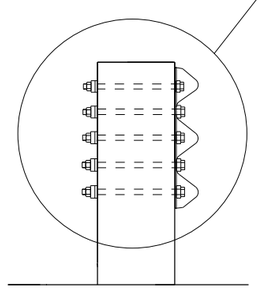
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. 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".

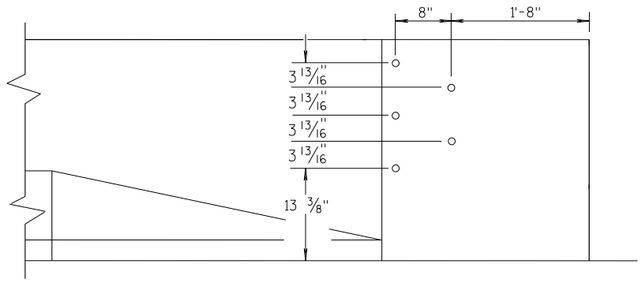




FRONT VIEW



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 UNIT SUPERVISOR
FHWA

PRE_285

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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.

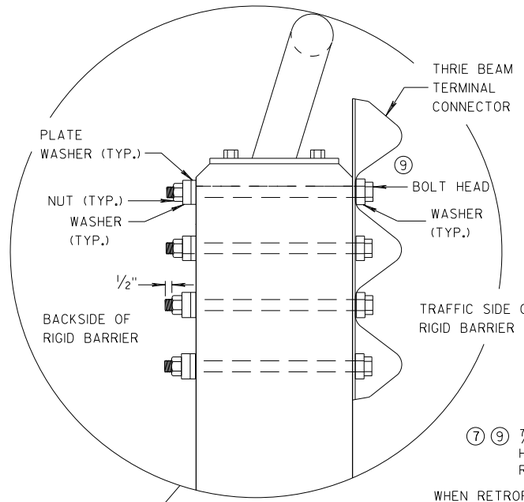
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

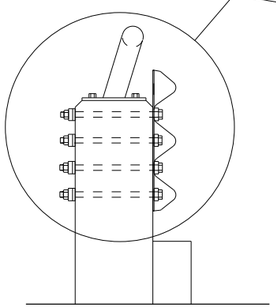
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(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.

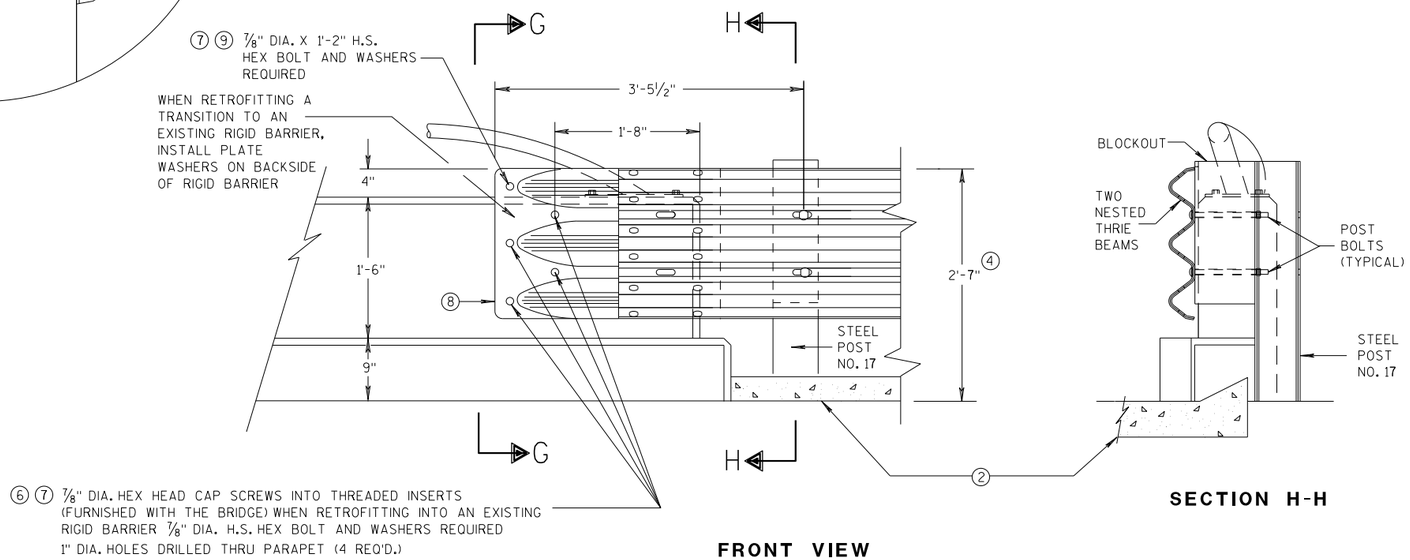
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(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.





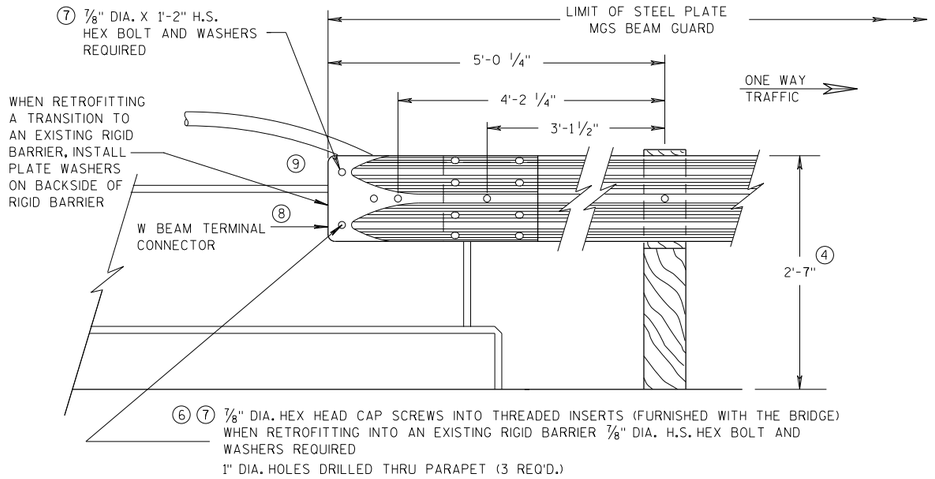
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(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
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR

PRE_286

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S.D.D. 14 B 45-5e

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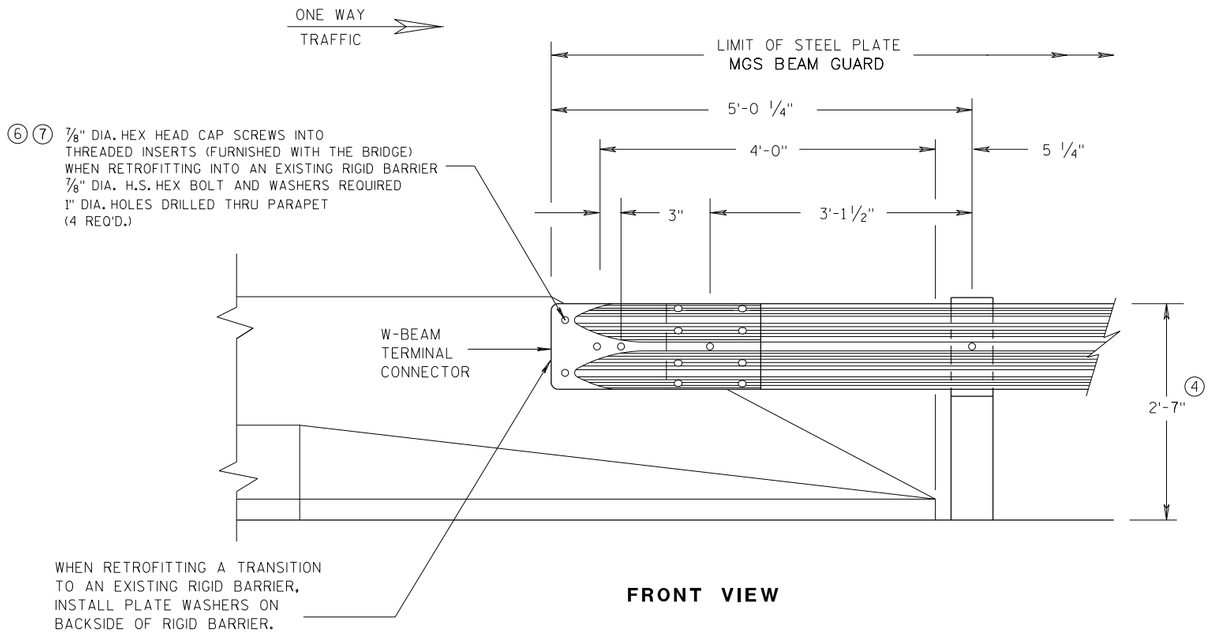
S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

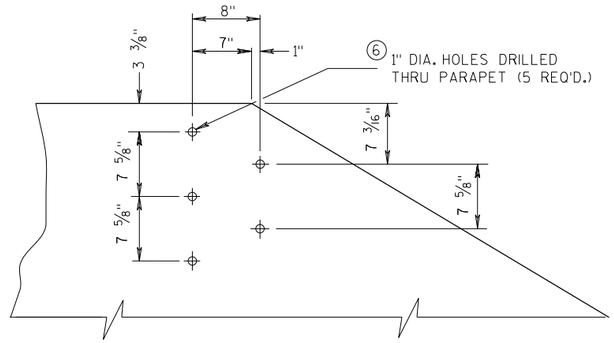
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

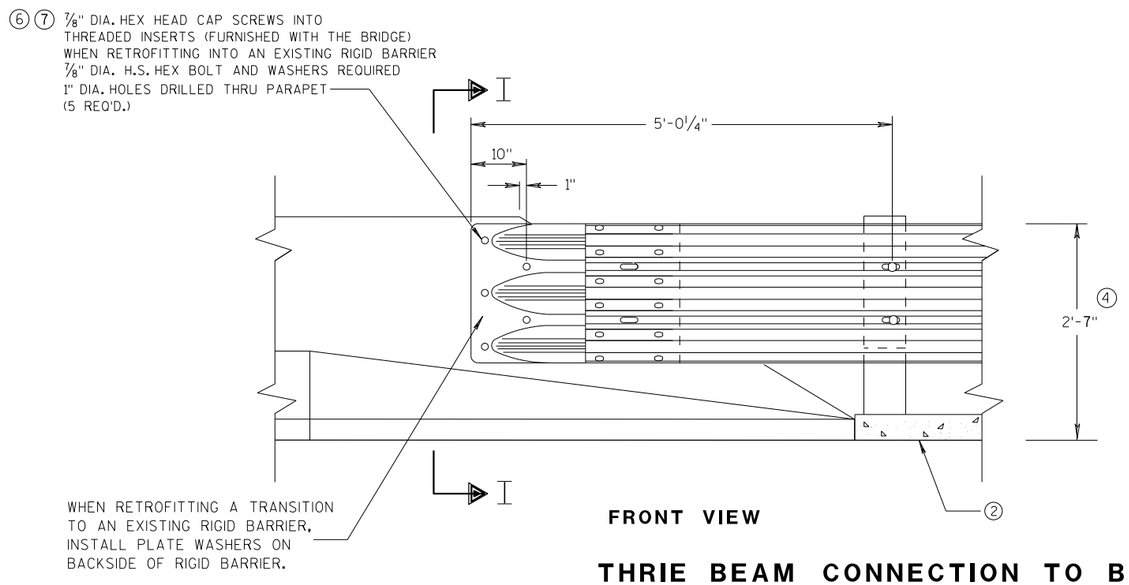
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

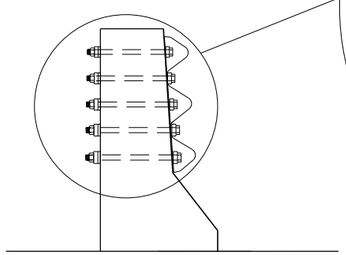
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. 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.



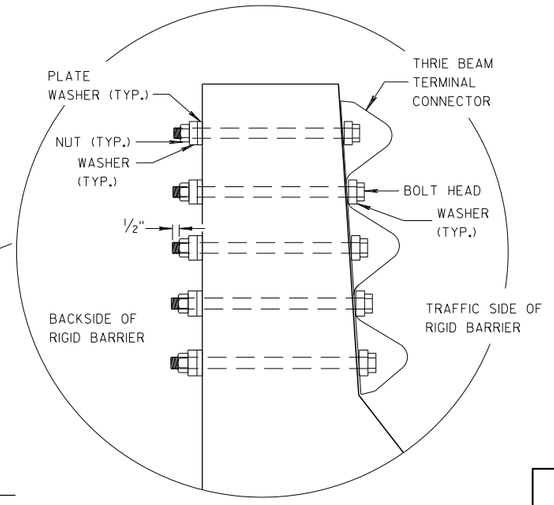
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



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

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDA... UNIT SU...
FHWA

PRE_287

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S.D.D. 14 B 45-5f

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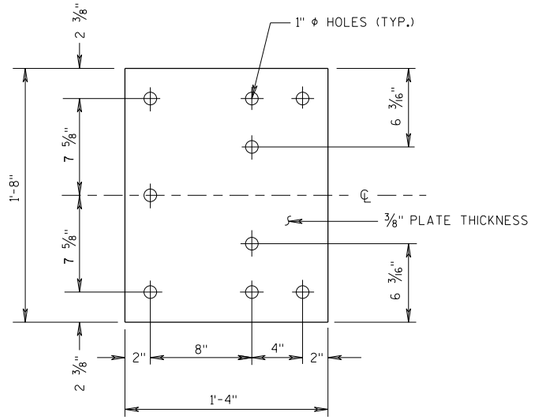
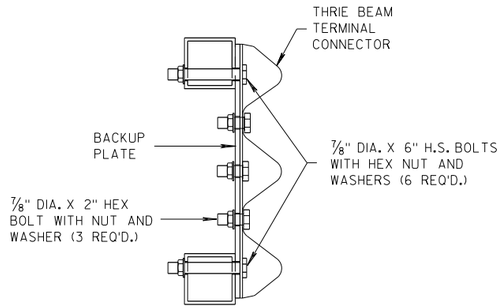
S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL

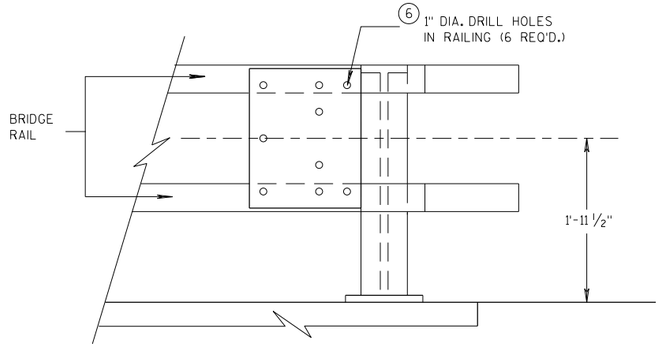


SECTION J-J

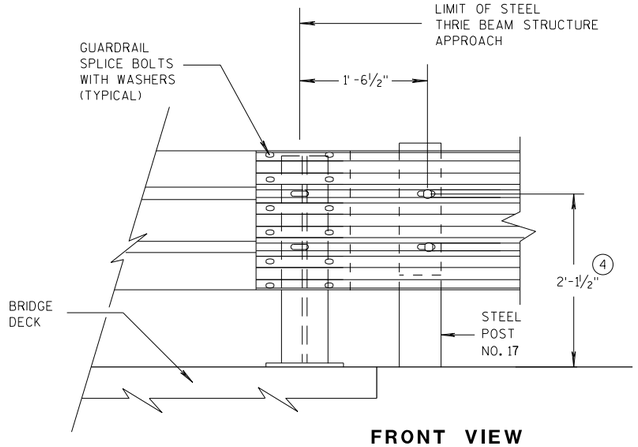
GENERAL NOTES

(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.

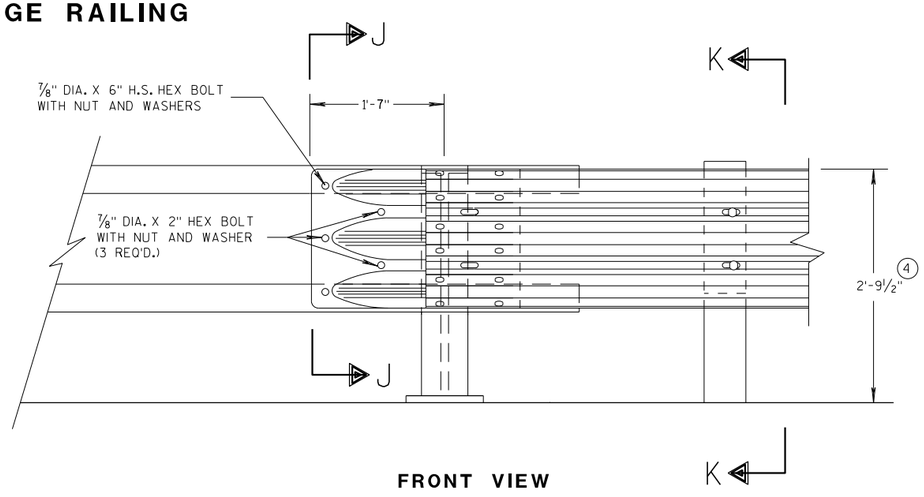


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

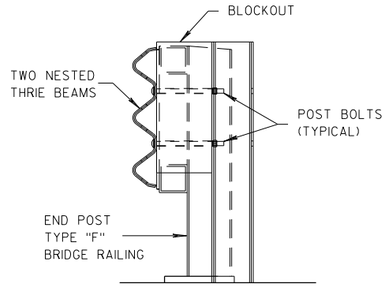


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018
DATE
FHWA

/S/ Rodney Tay PRE_288
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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S.D.D. 14 B 45-5g

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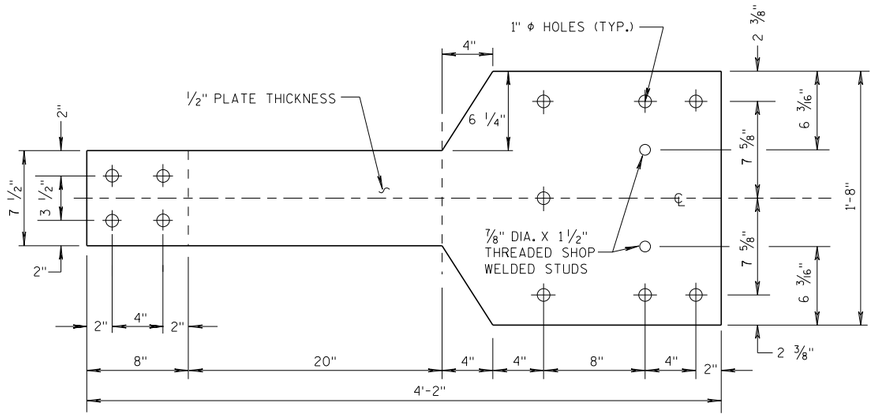
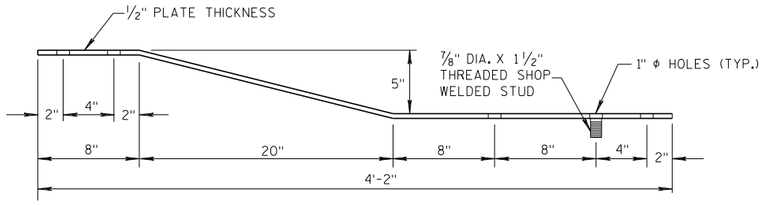
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

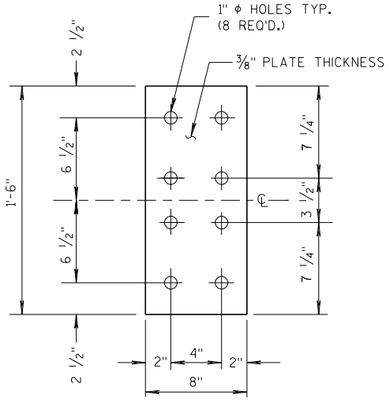


FRONT VIEW



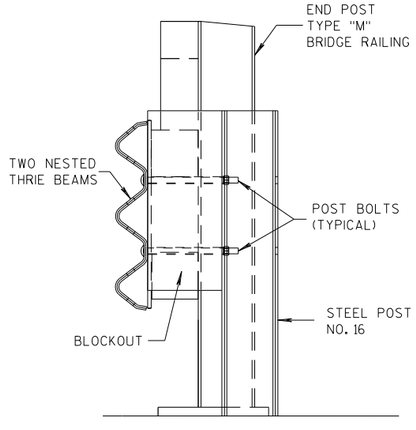
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

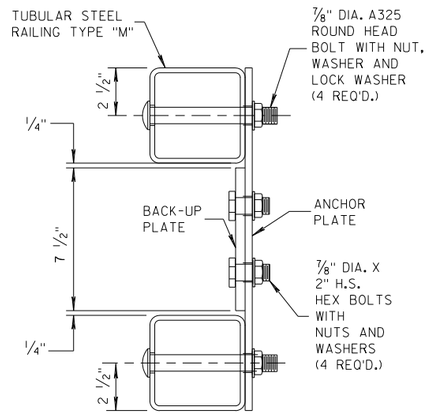


FRONT VIEW

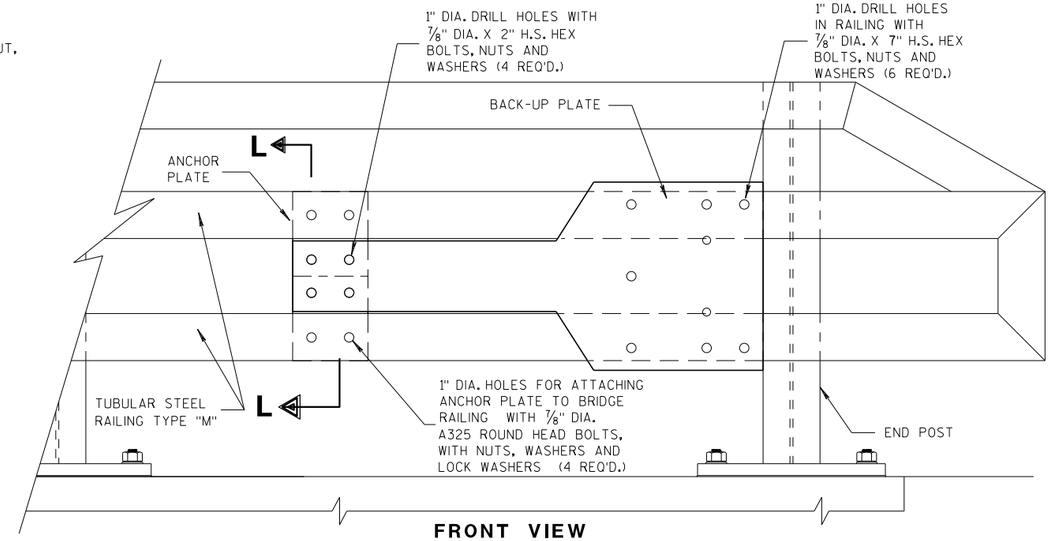
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

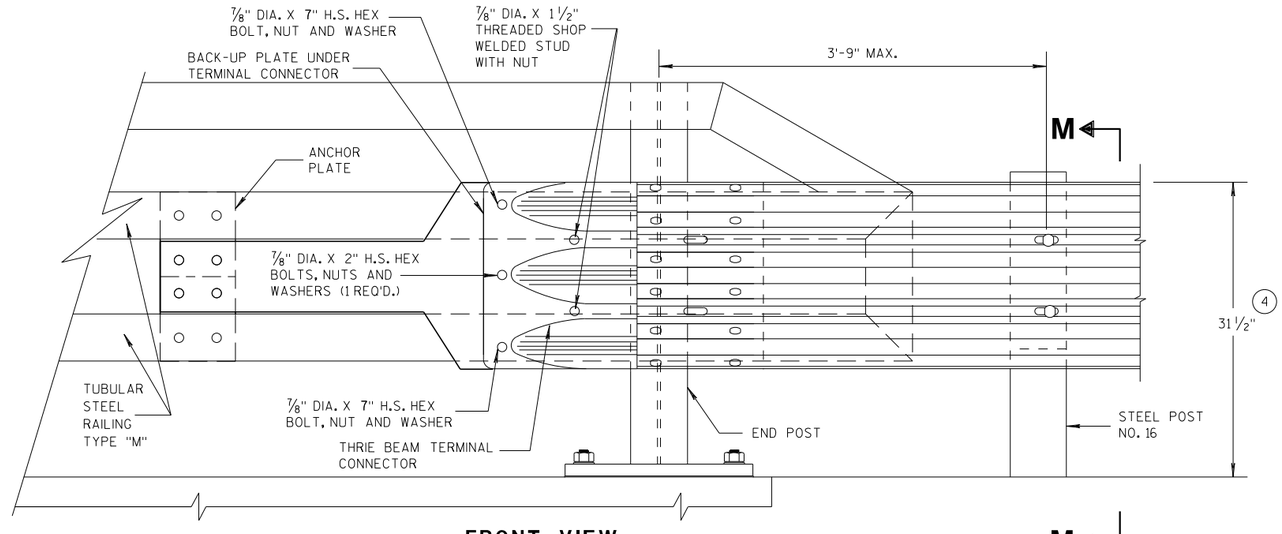


SECTION L-L

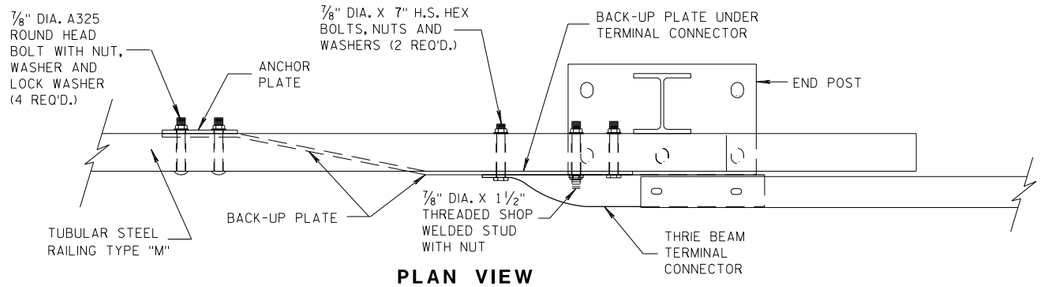


FRONT VIEW

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 STANDA
UNIT SU
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FHWA

PRE_289

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S.D.D. 14 B 45-5h

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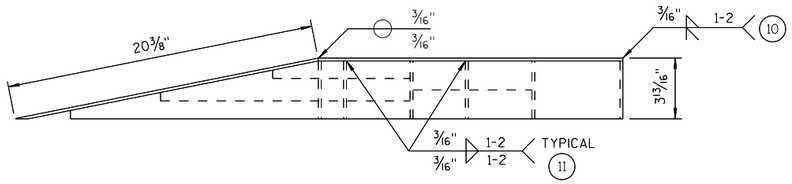
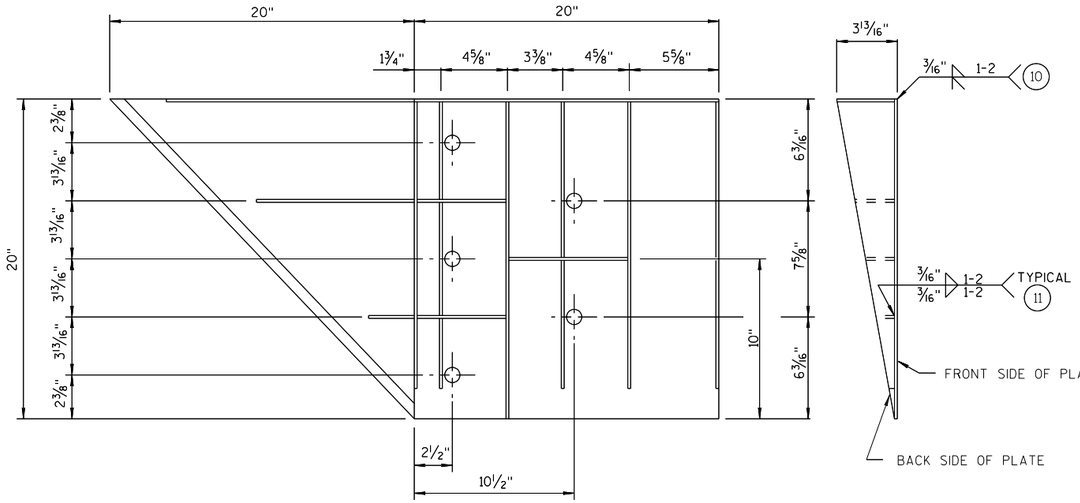
S.D.D. 14 B 45-5h





WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

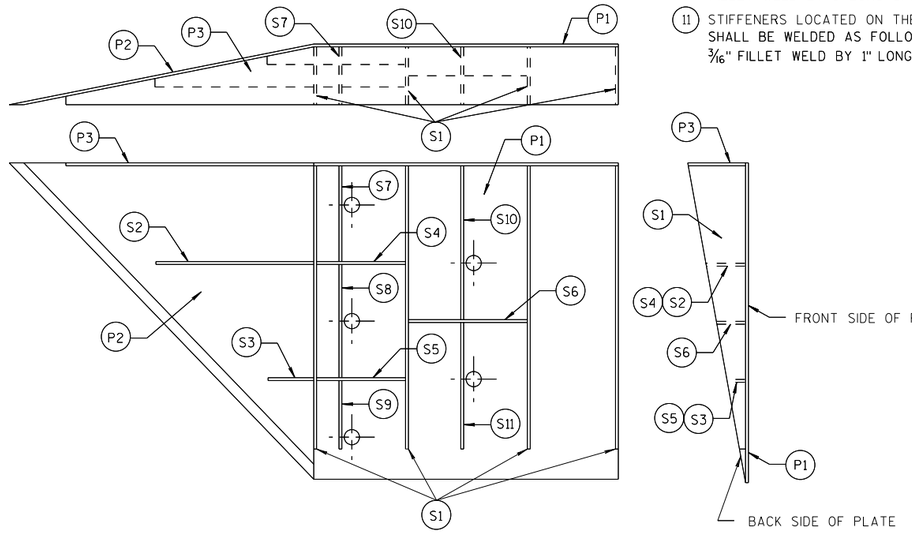


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

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".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDA
UNIT SU

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S.D.D. 14 B 45-5i

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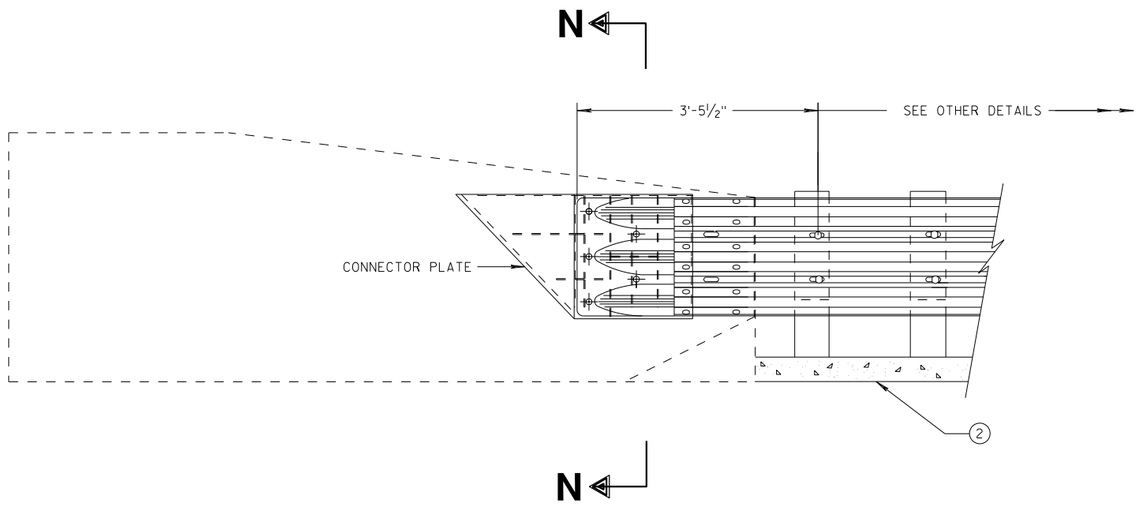
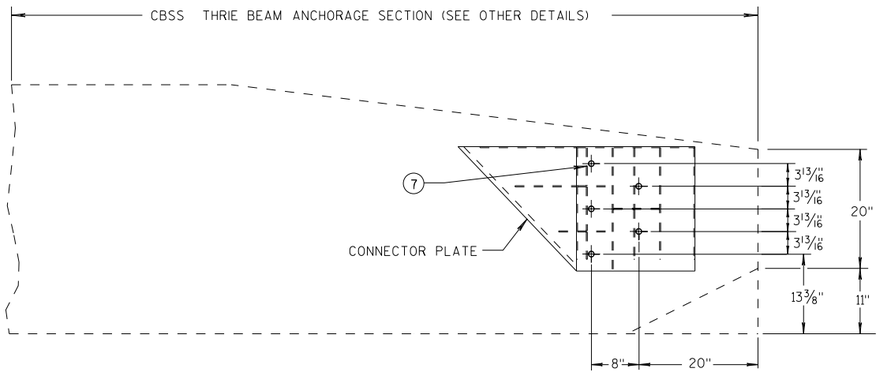
S.D.D. 14 B 45-5i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



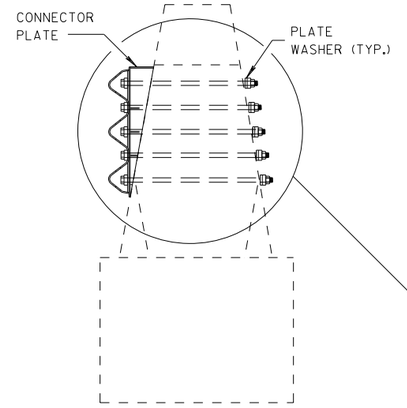
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

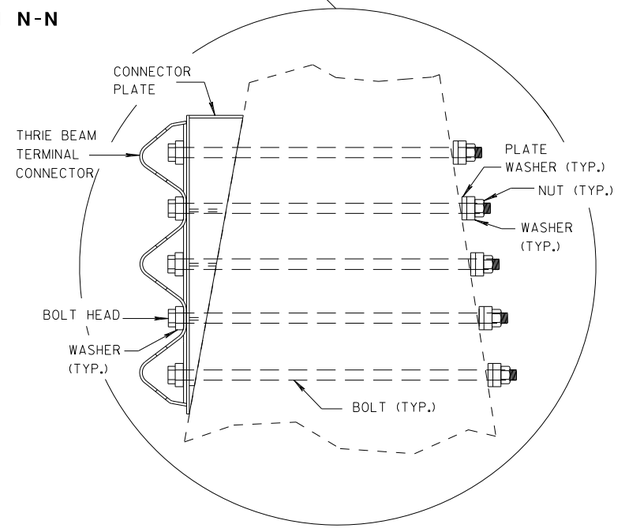
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERVISOR

PRE_291

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S.D.D. 14 B 45-5j

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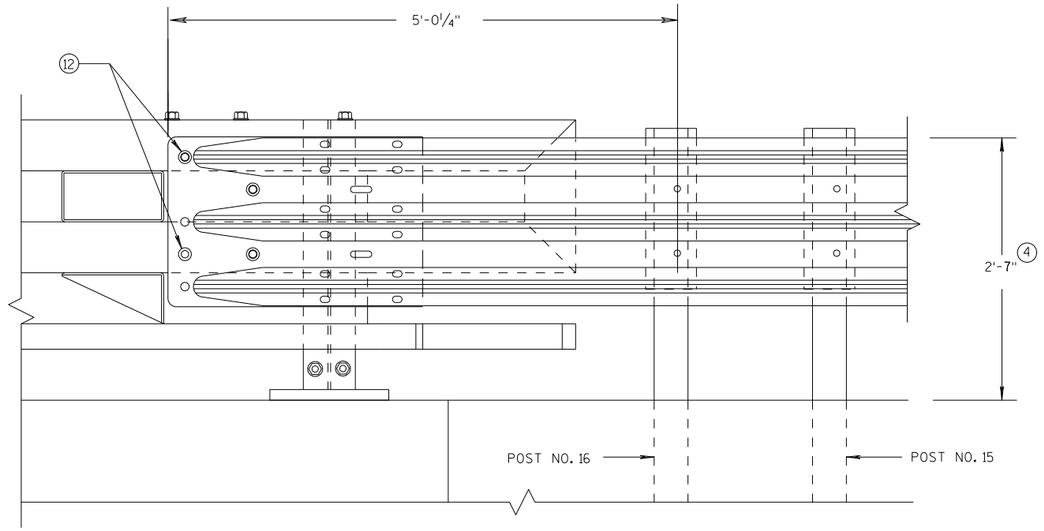
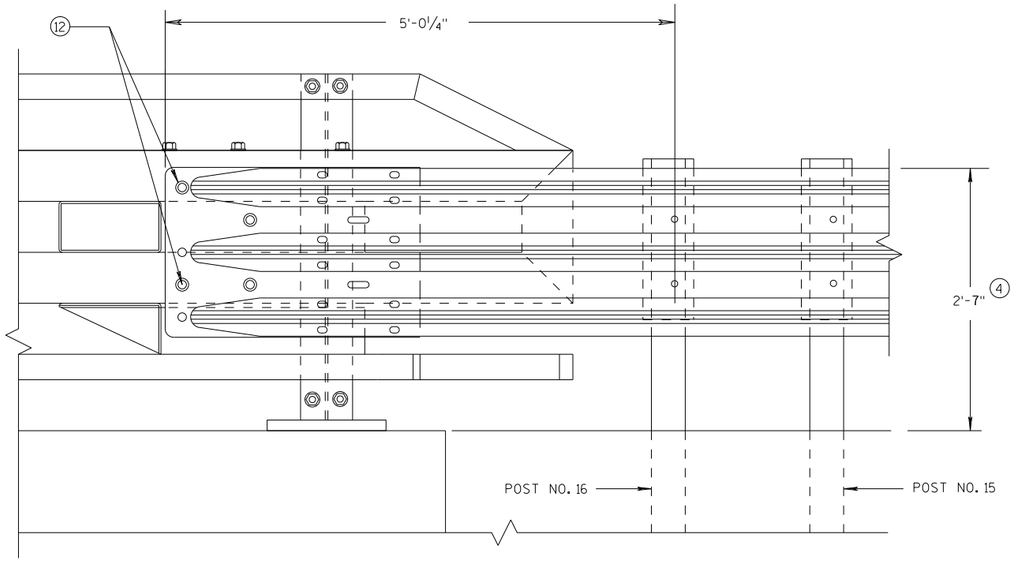
S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

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S.D.D. 14 B 45-5k

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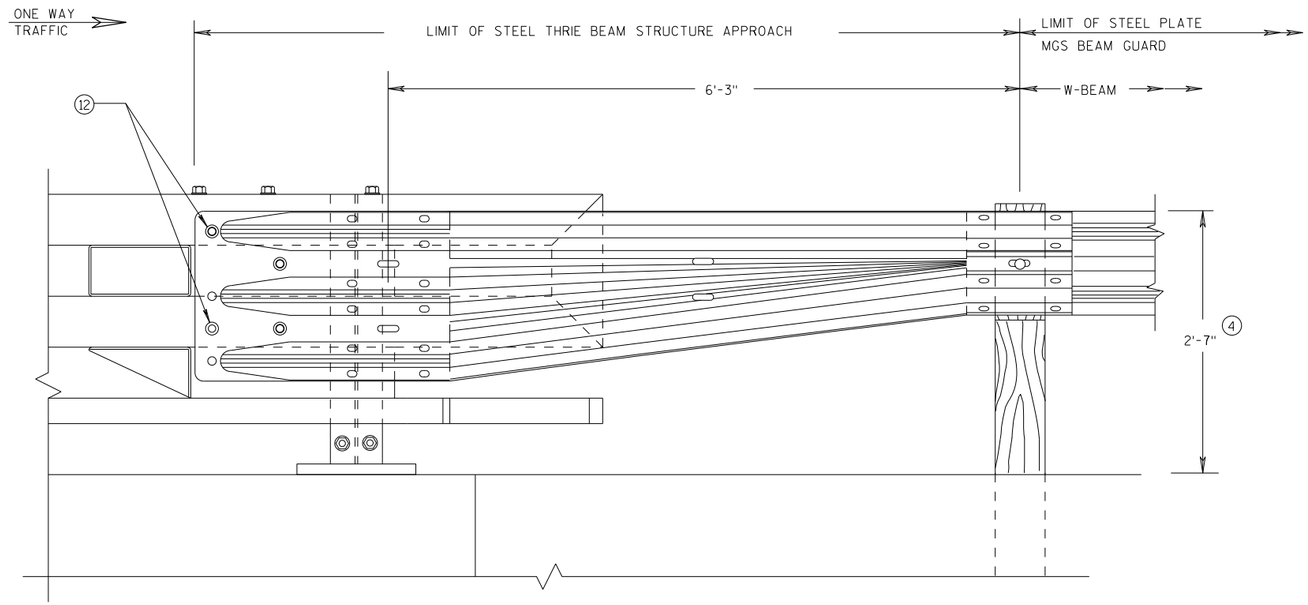
S.D.D. 14 B 45-5k



FRONT VIEW

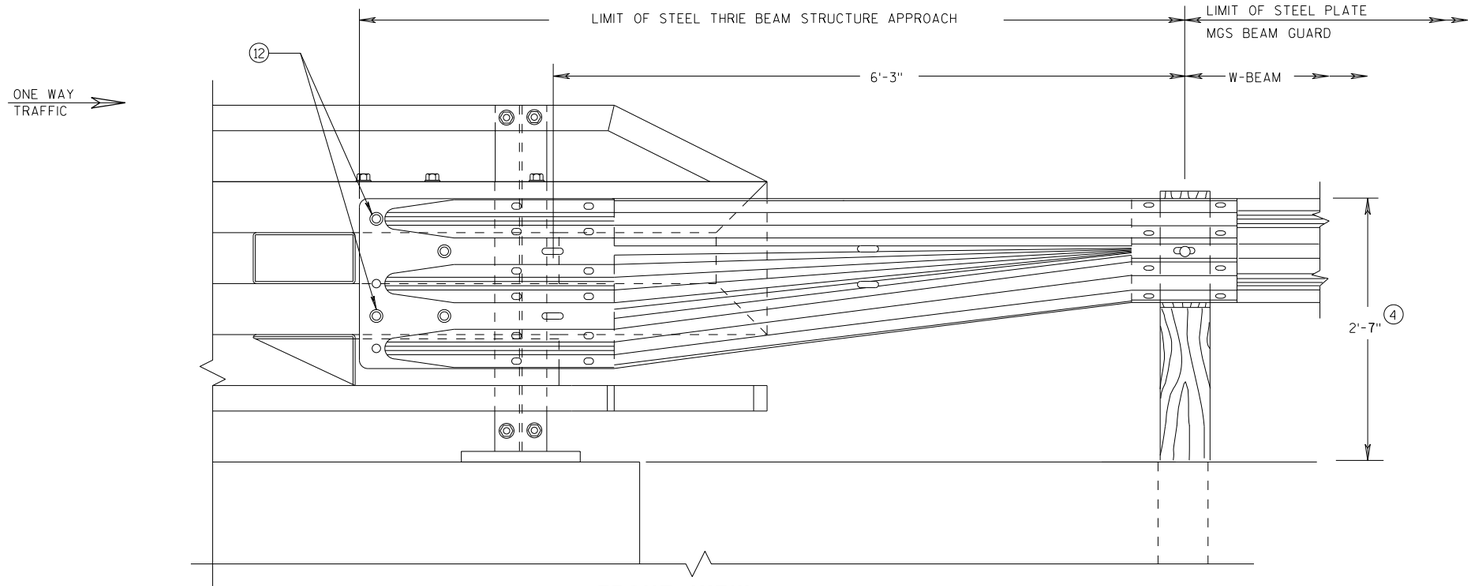
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(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
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 14 B 45-5L

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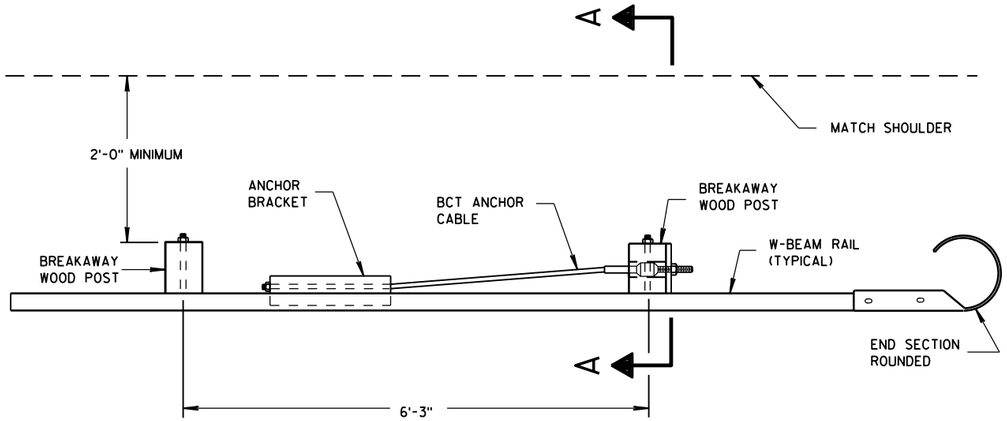
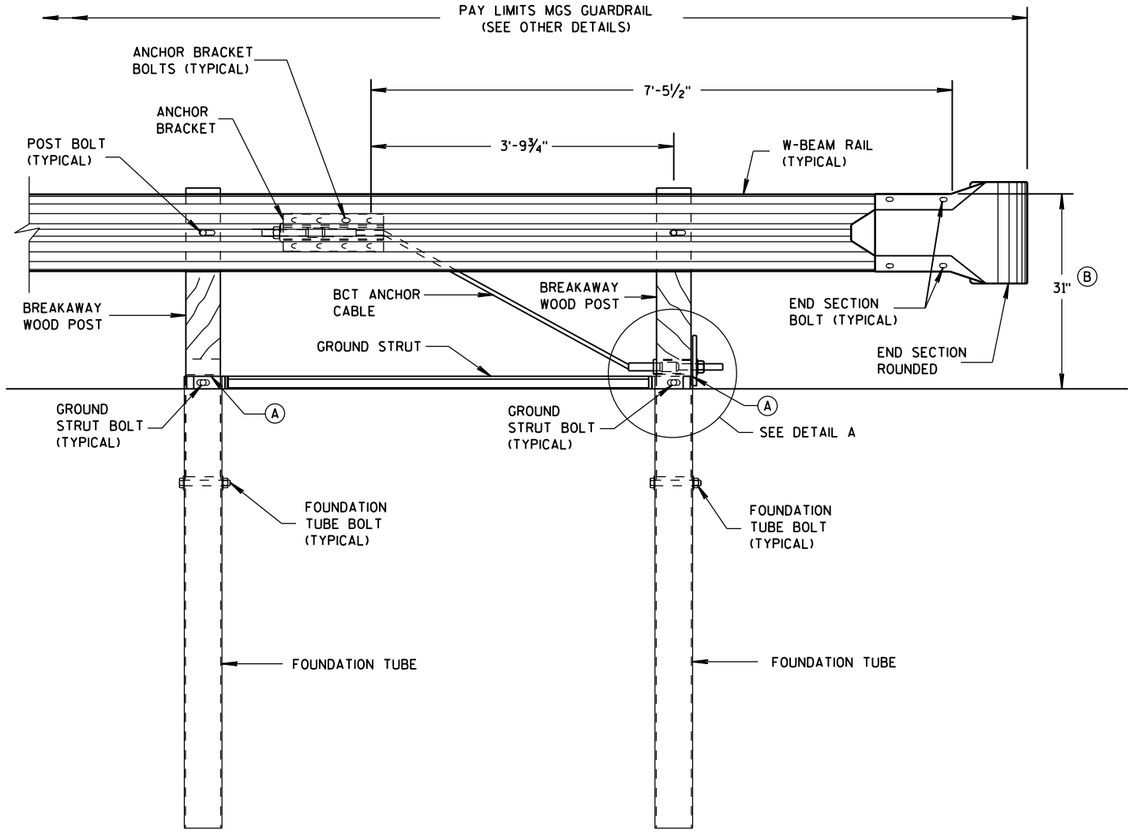
S.D.D. 14 B 45-5L

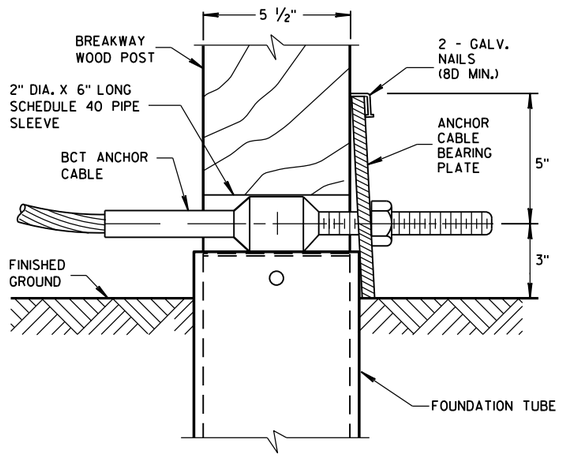


PLAN VIEW



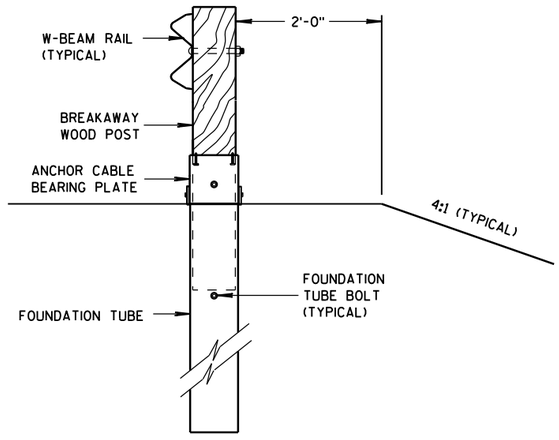
FRONT VIEW

END RAIL DETAIL



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.



SECTION A-A

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

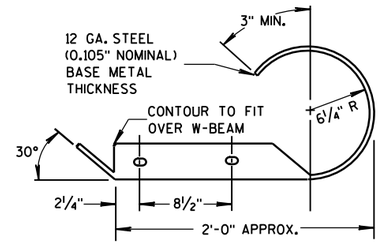
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

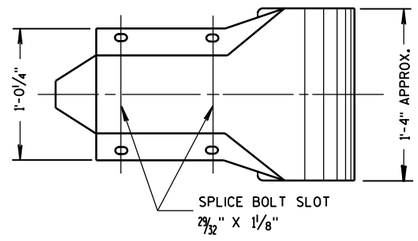
W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".



PLAN VIEW



FRONT VIEW

W BEAM END SECTION ROUNDED

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRAN

PRE_294

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S.D.D. 14 B 47-2a

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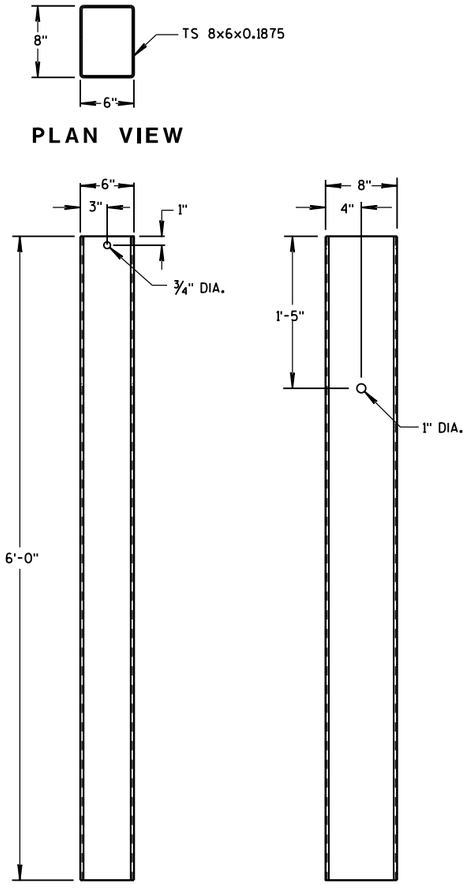
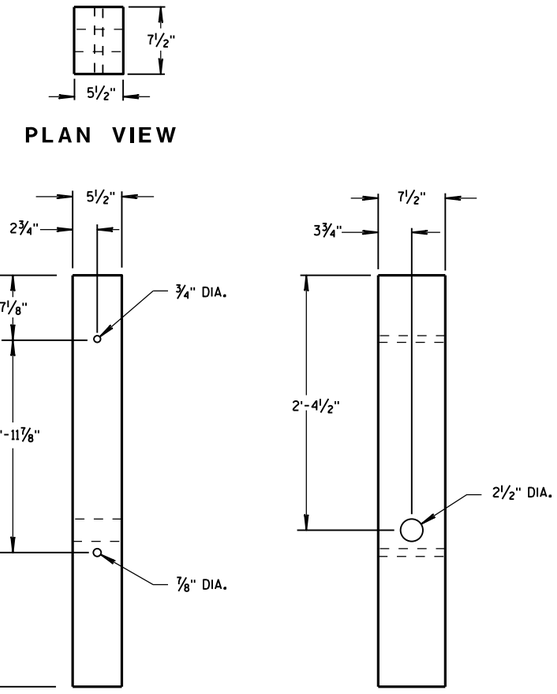
S.D.D. 14 B 47-2a



FOUNDATION TUBE

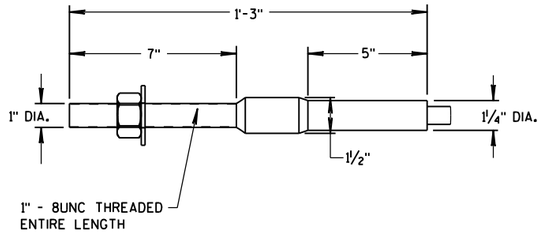


BREAKAWAY WOOD POST

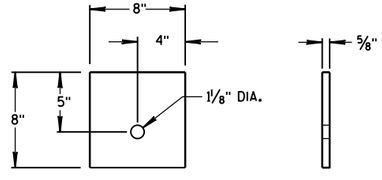
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRAN

PRE_295

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S.D.D. 14 B 47-2b

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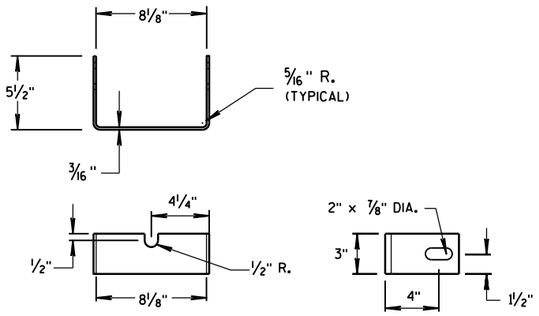
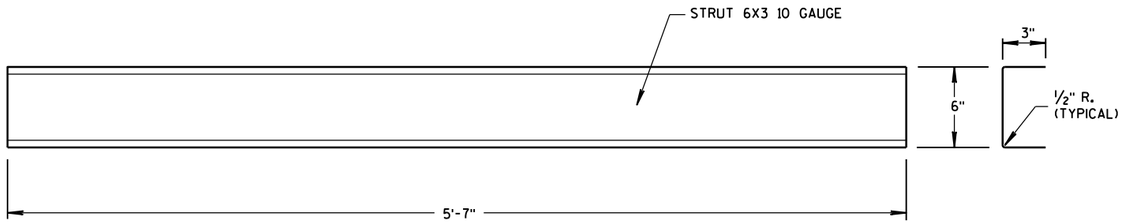
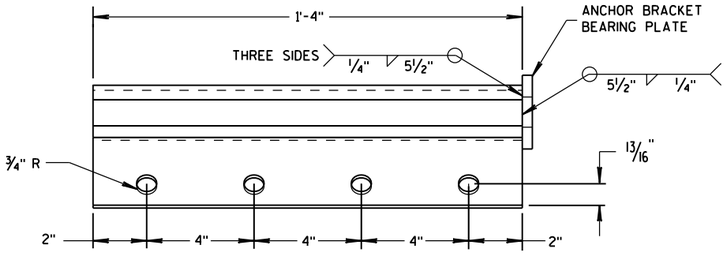
S.D.D. 14 B 47-2b

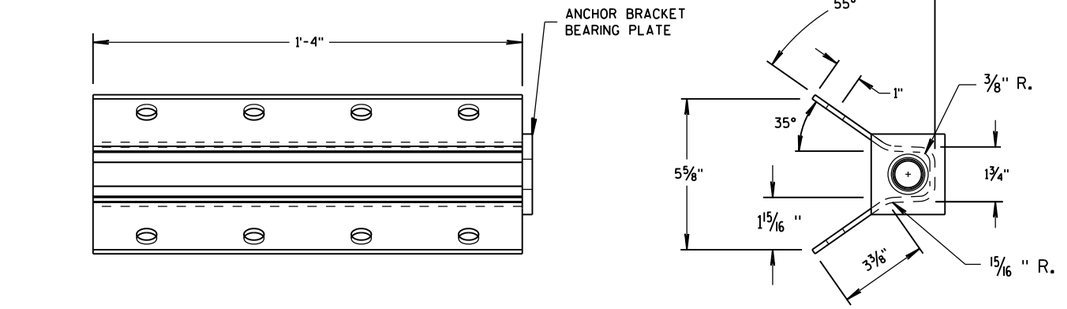


YOKE DETAIL

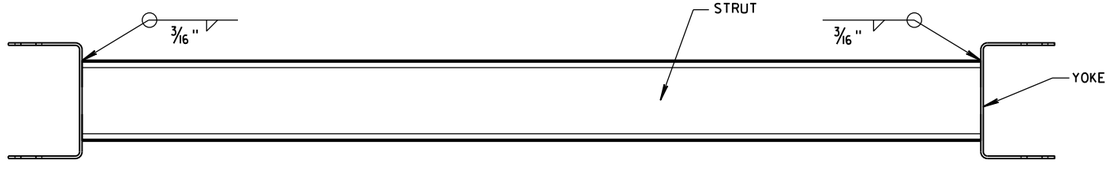


STRUT DETAIL

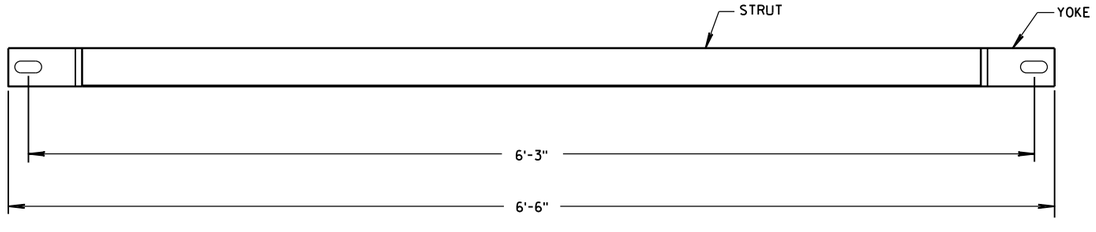




ANCHOR BRACKET

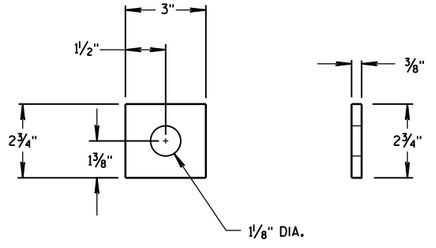


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

PRE_296

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S.D.D. 14 B 47-2c

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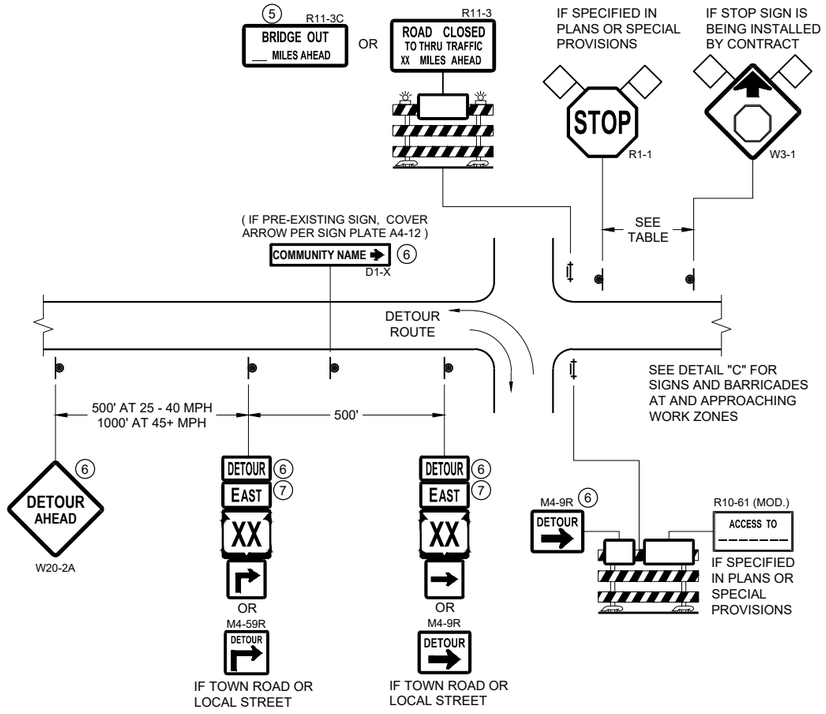
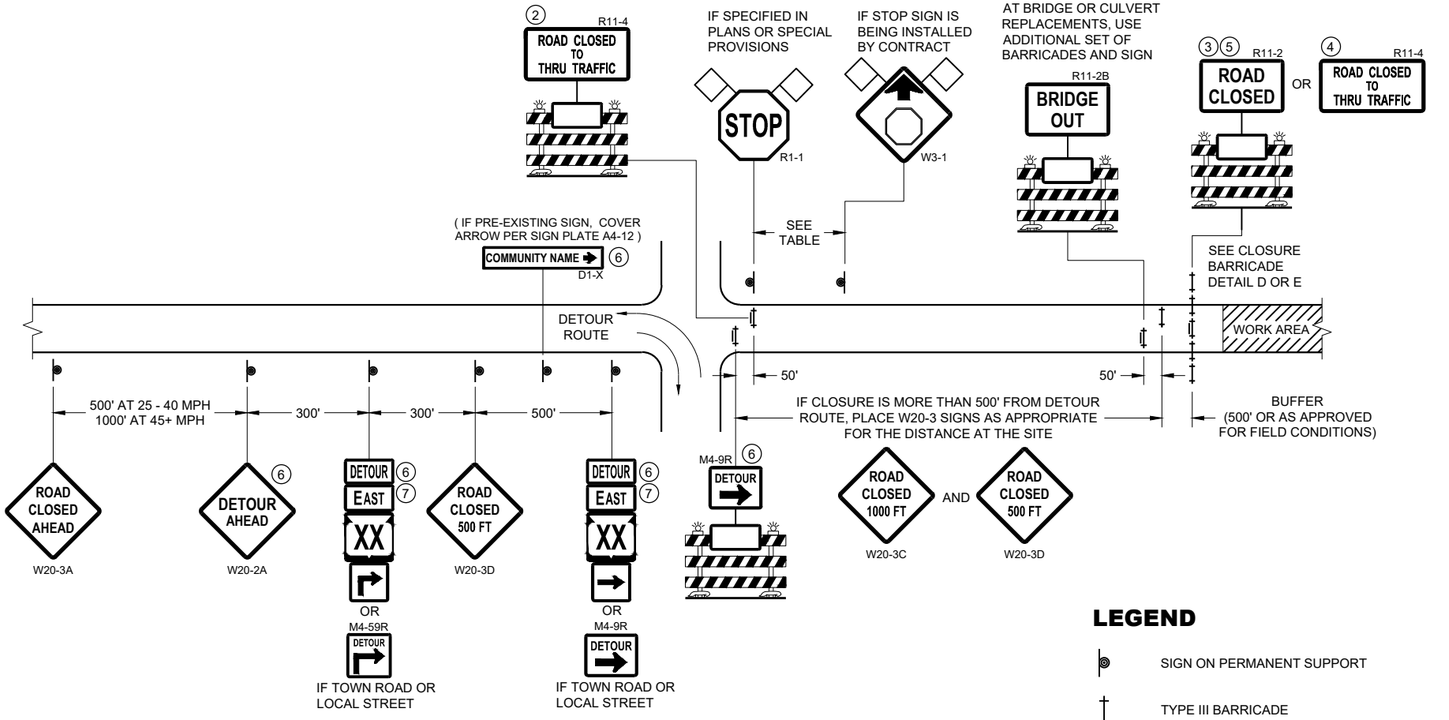
S.D.D. 14 B 47-2c



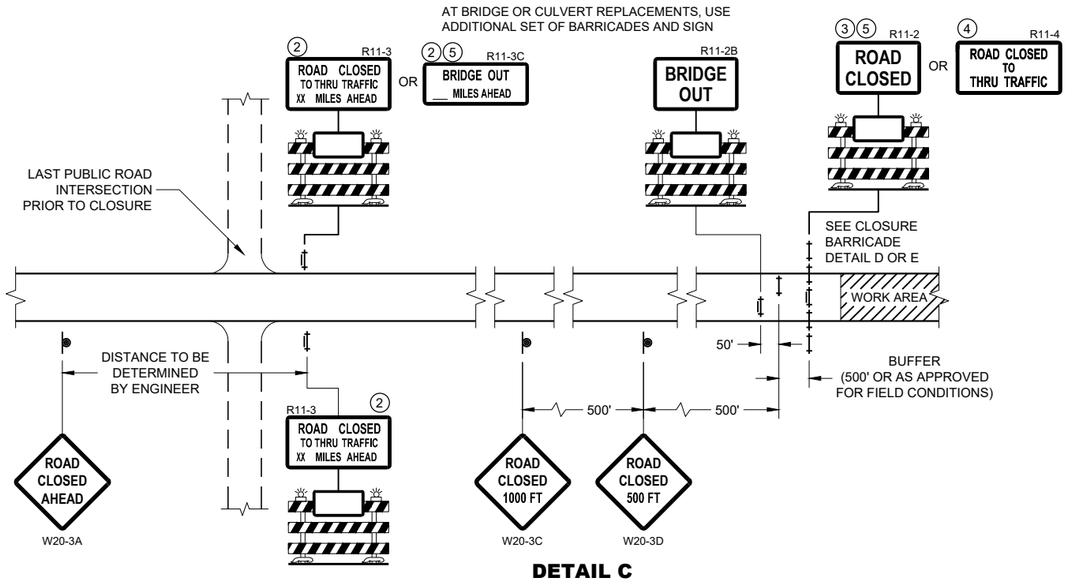
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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 EN

FHWA

PRE_297

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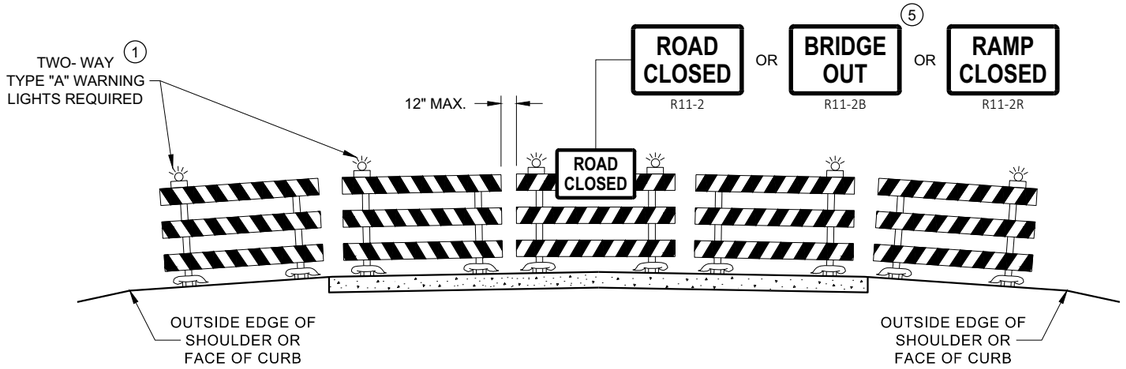
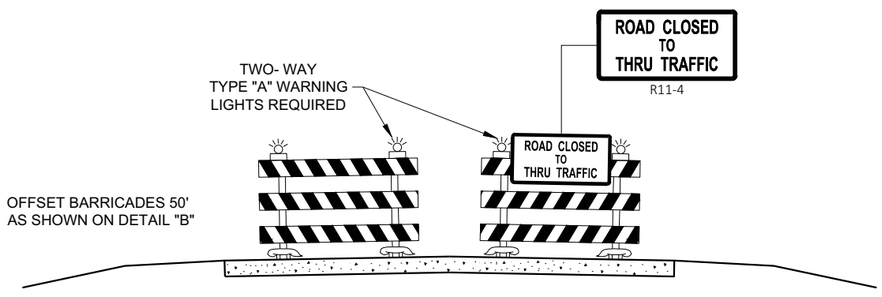
SDD 15C02 - 08a



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 EN
FHWA

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SDD 15C02 - 08b

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THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

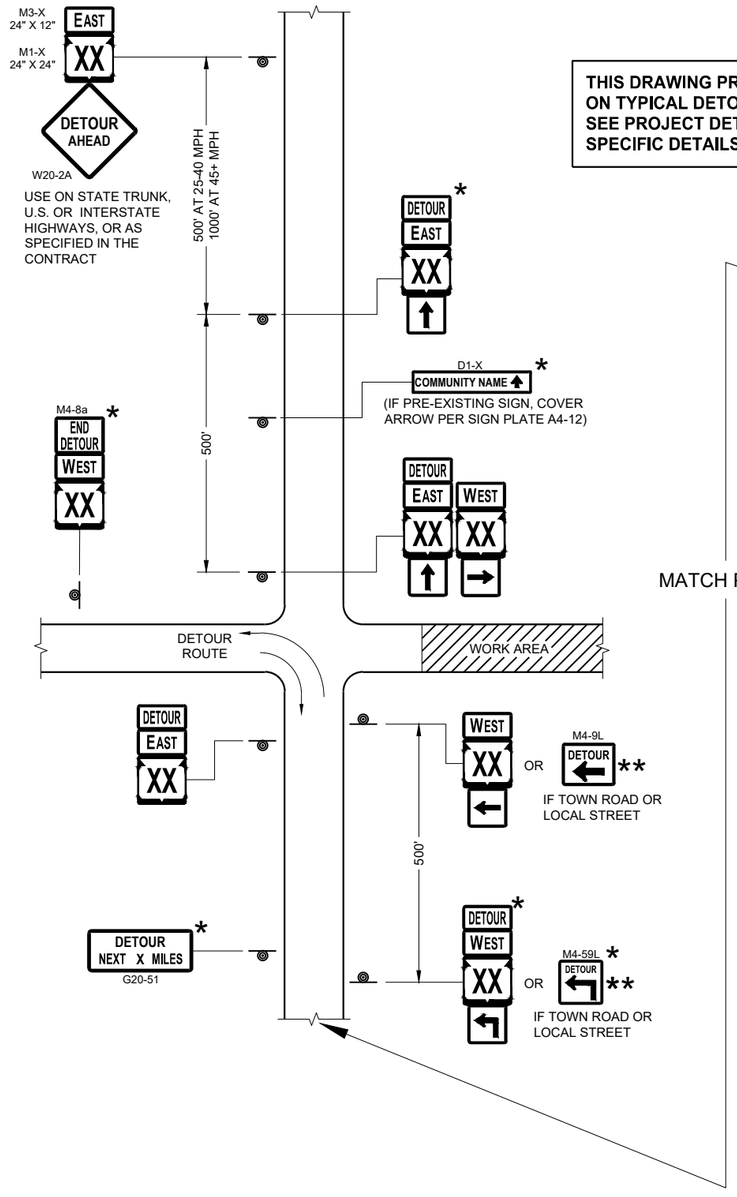
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

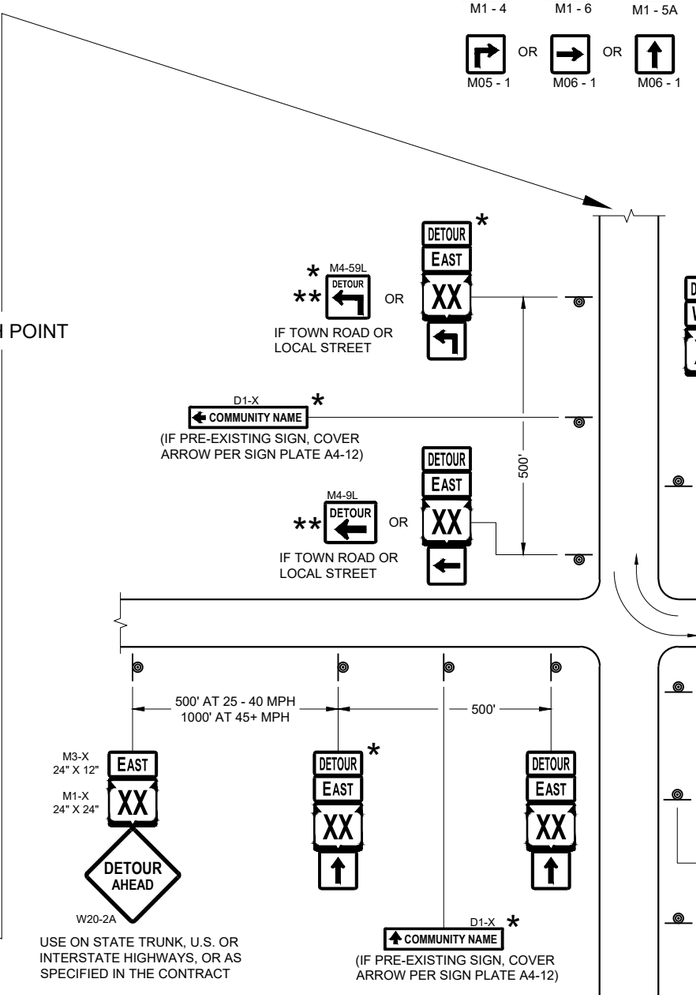
SIGN SIZES SHALL BE AS FOLLOWS:

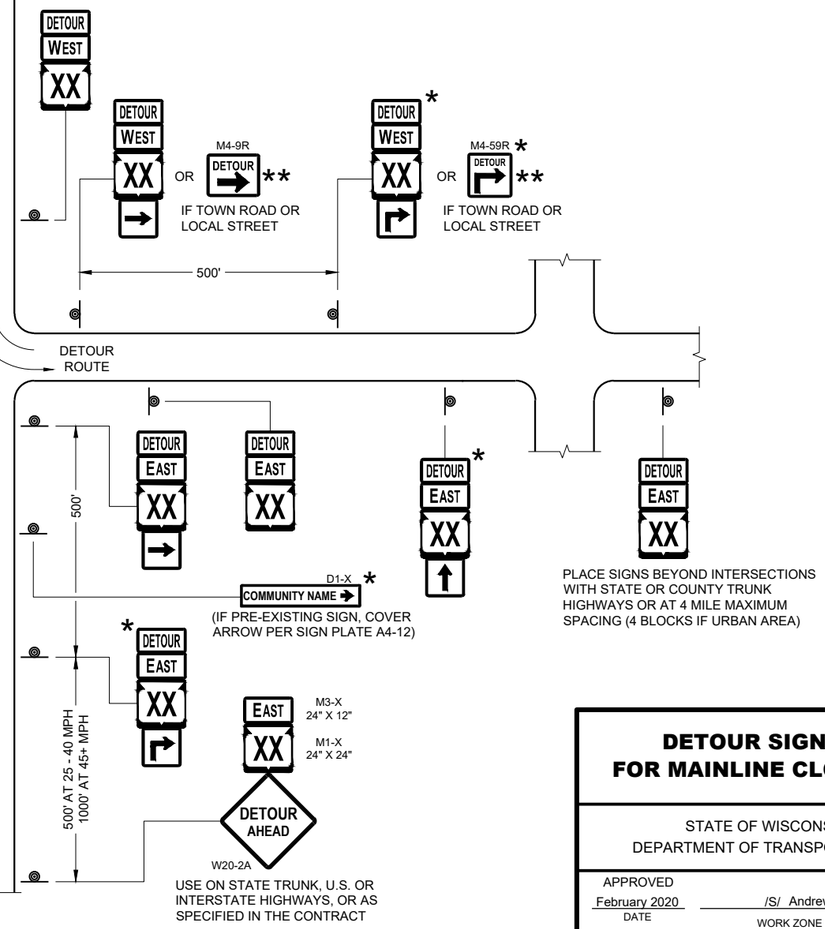
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.







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 EN

FHWA

PRE_299

SDD 15C02 - 08c
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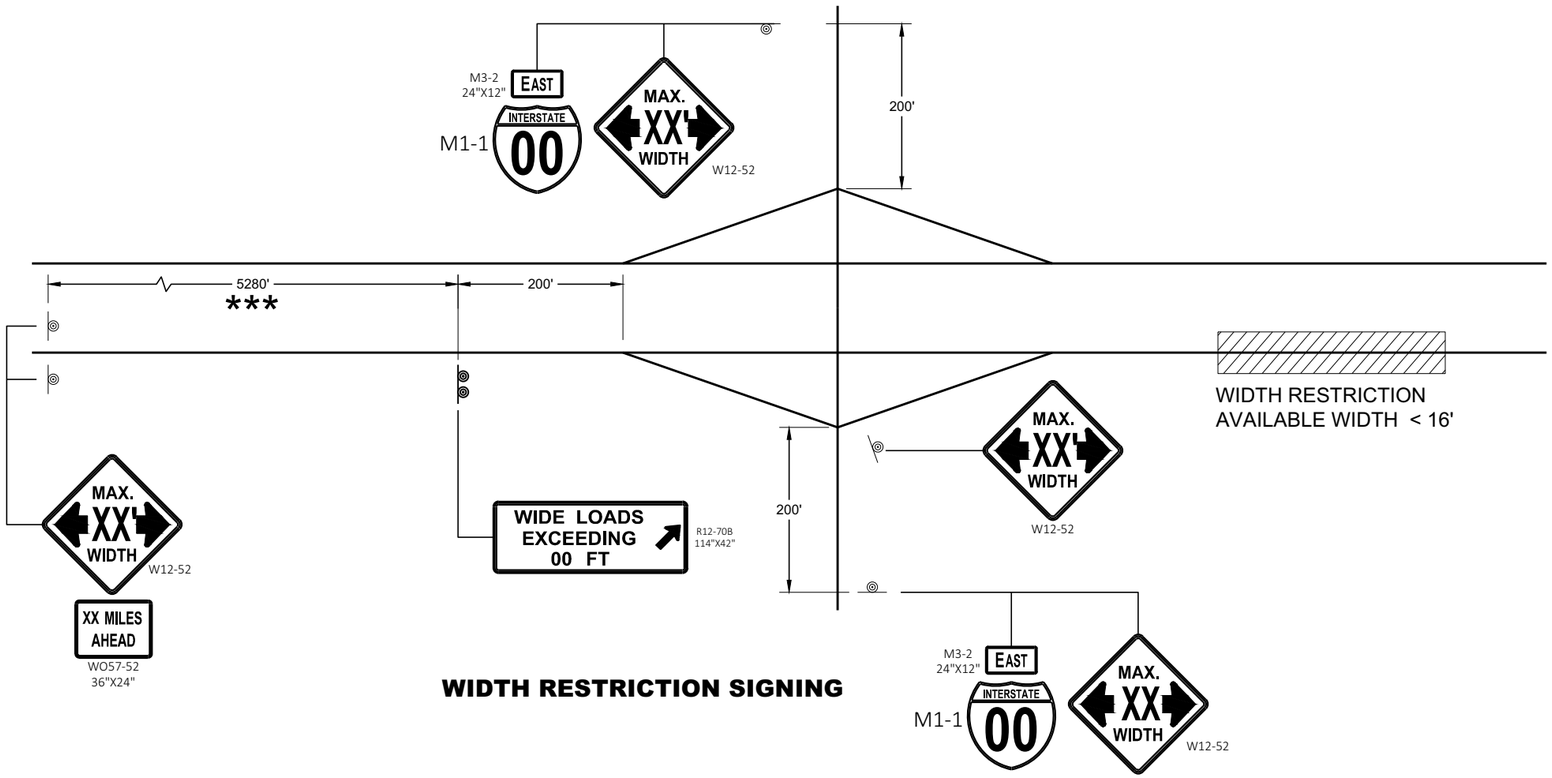


WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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

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

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

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

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

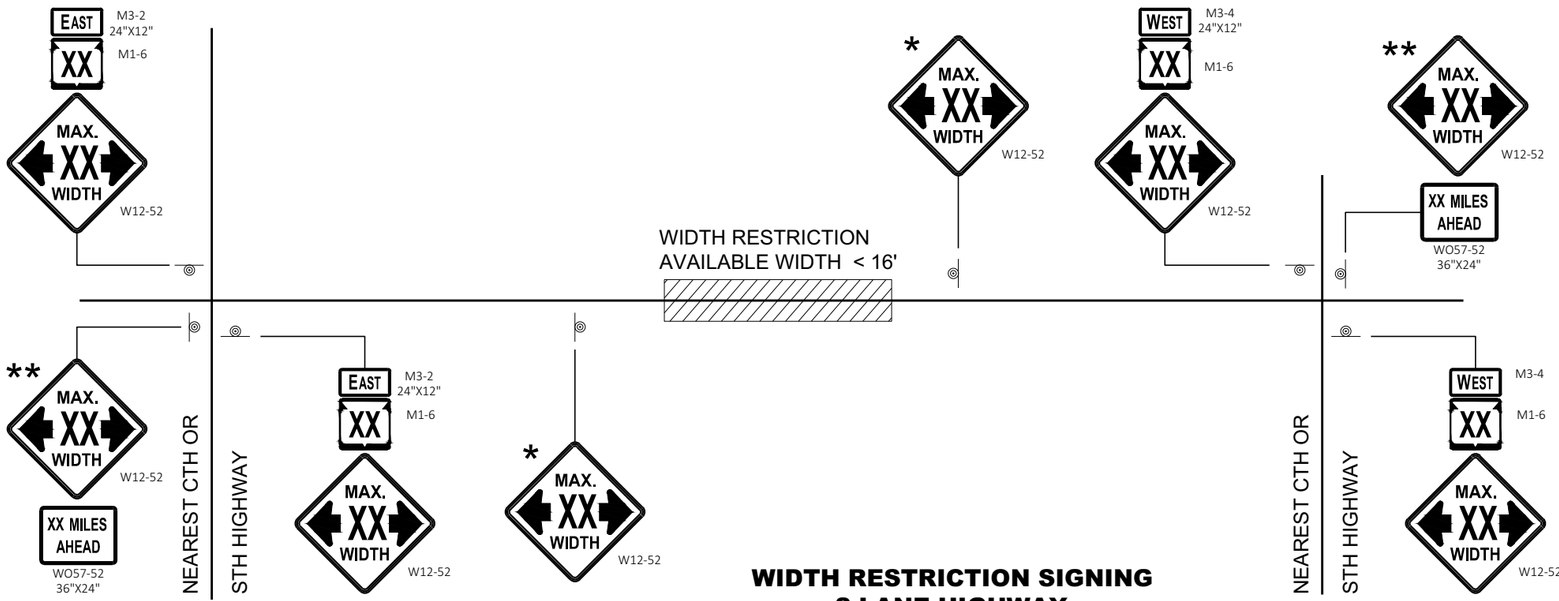
WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE EN

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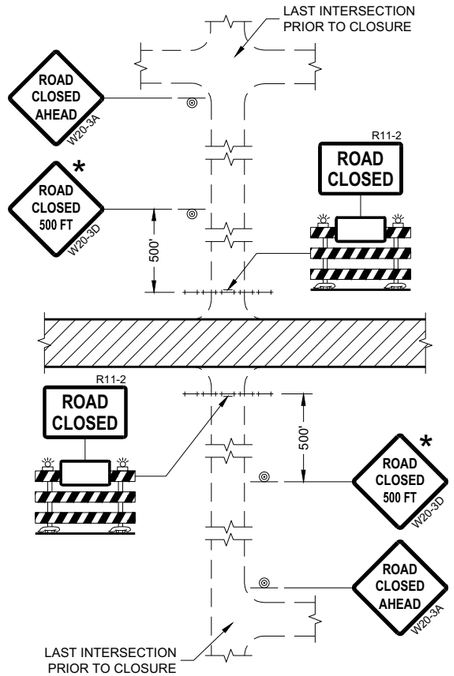
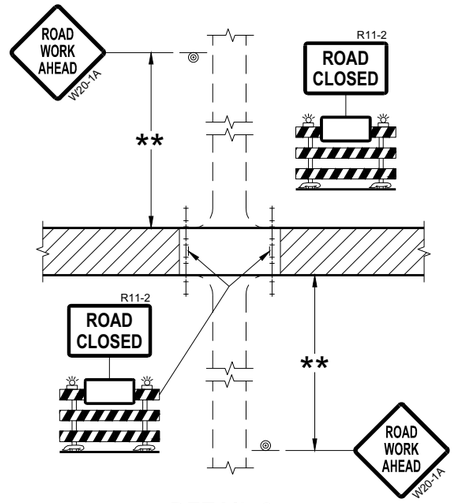
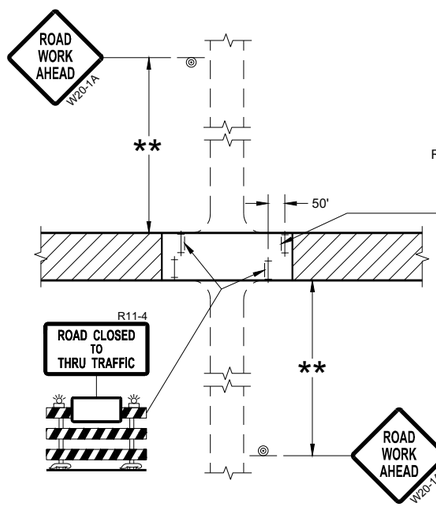
SDD 15C02 - 08f



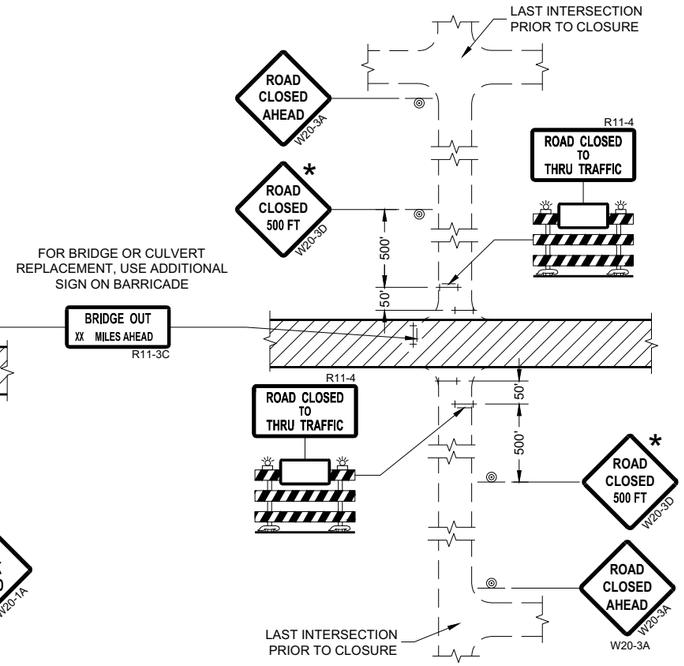
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT 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.

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 EN

PRE_301

FHWA

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SDD 15C03 - 05

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

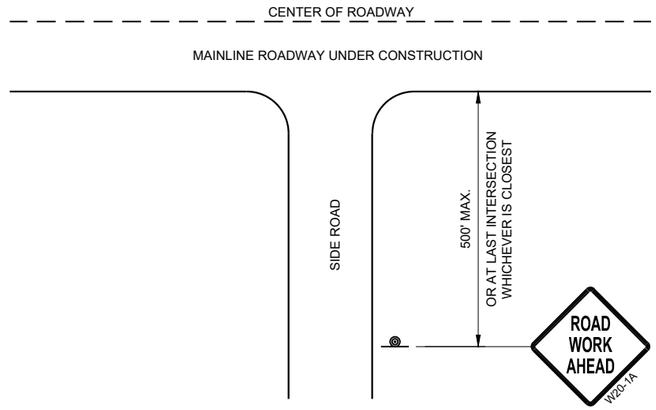
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



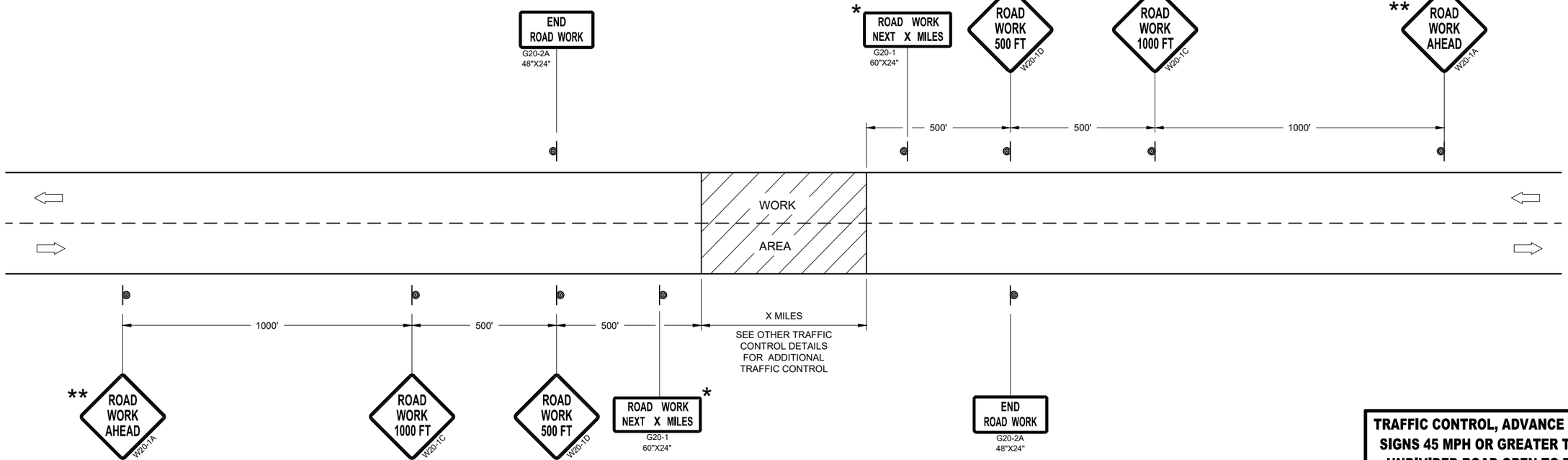
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE EN

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SDD 15C04 - 05

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SDD 15C04 - 05

GENERAL NOTES

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

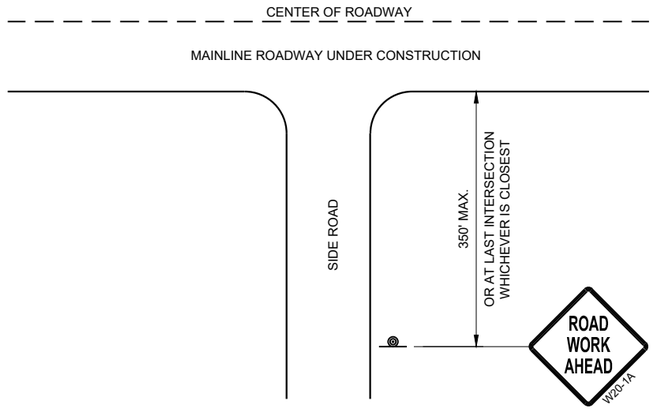
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



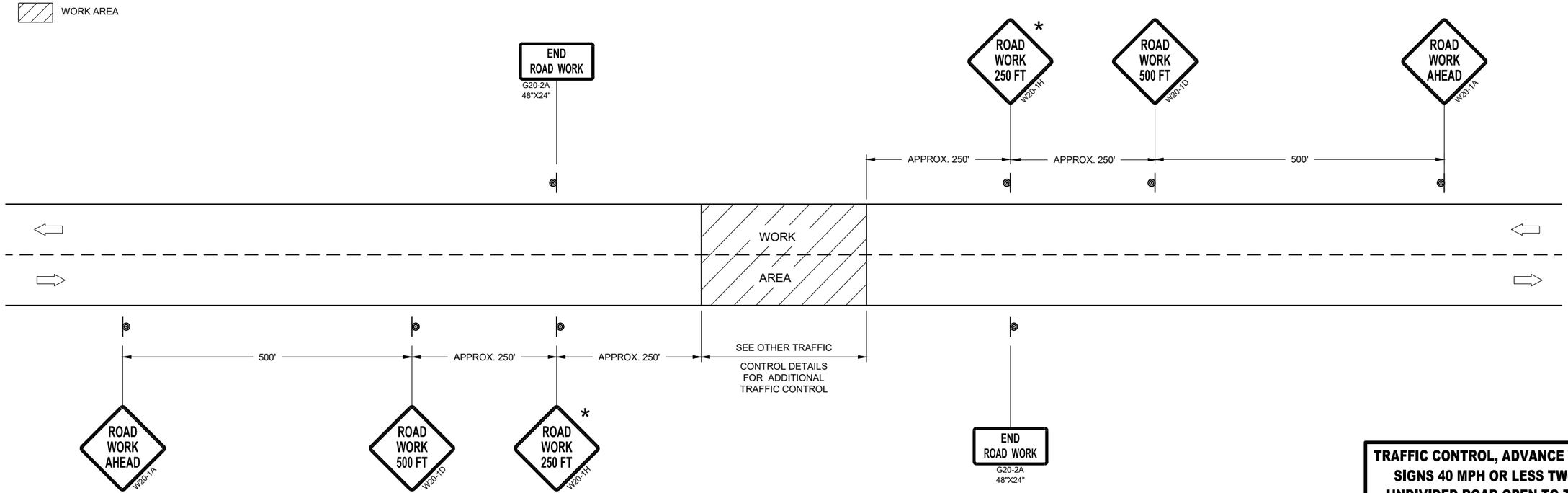
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE EN

PRE_303

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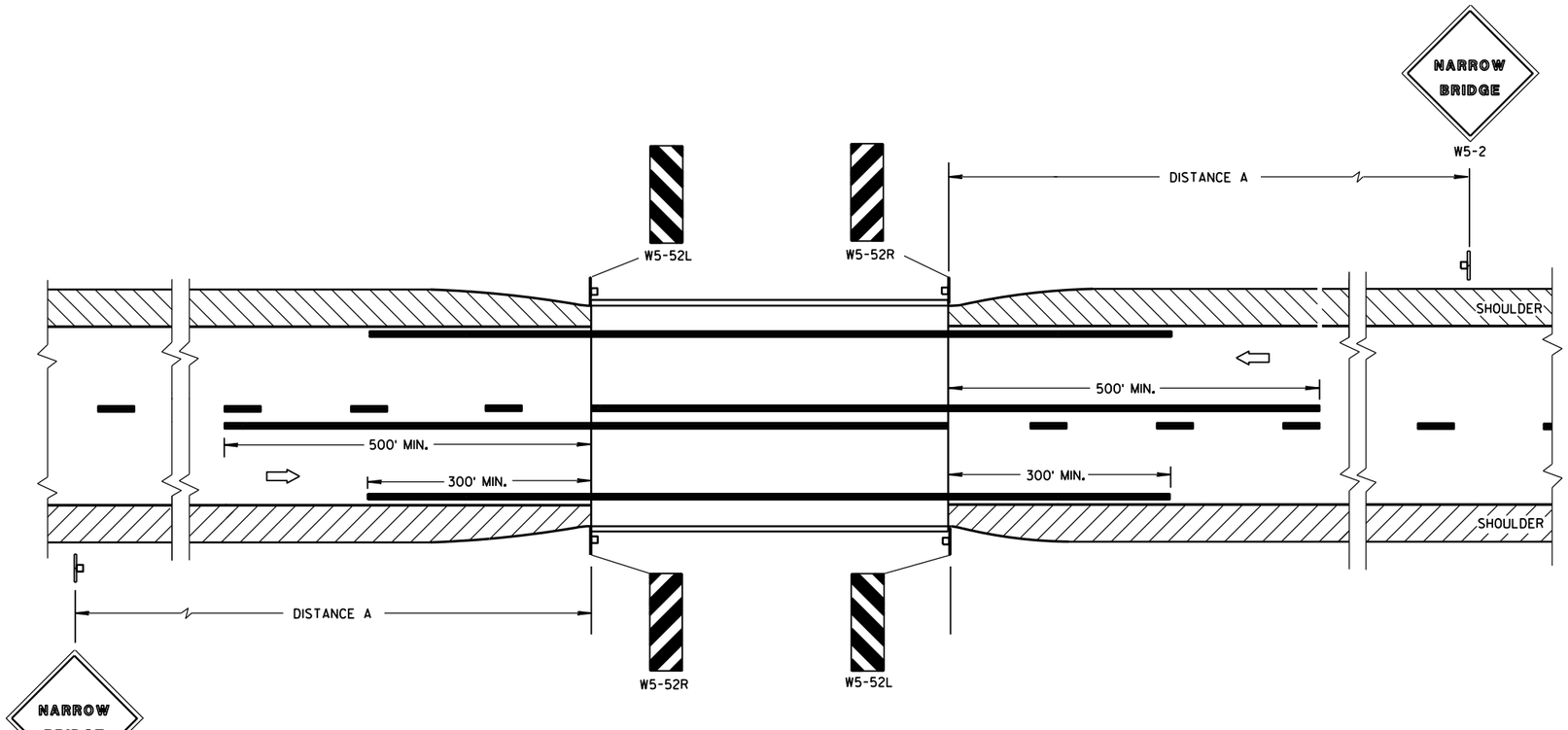
SDD 15C05 - 05



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

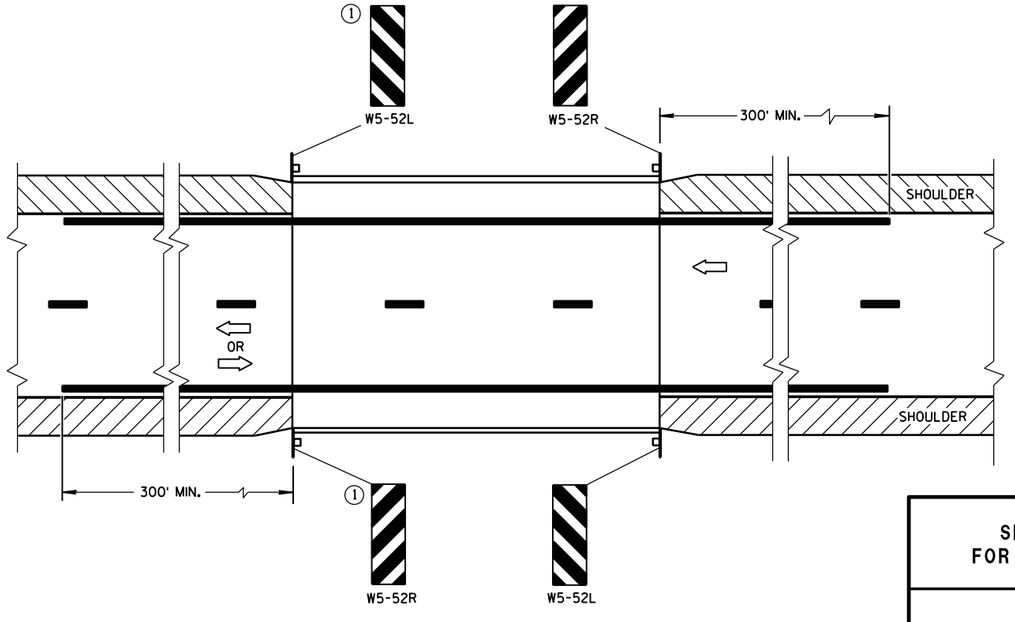
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND PRE_304 ER
FHWA

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S.D.D. 15 C 6-9

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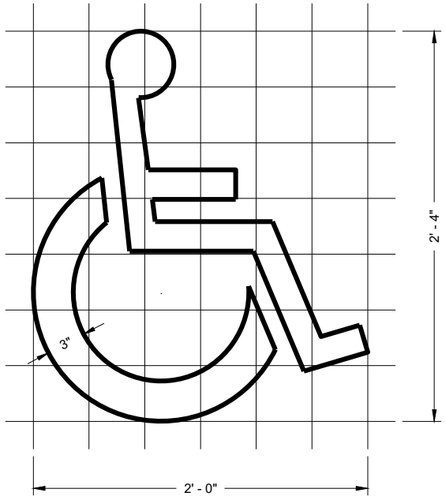
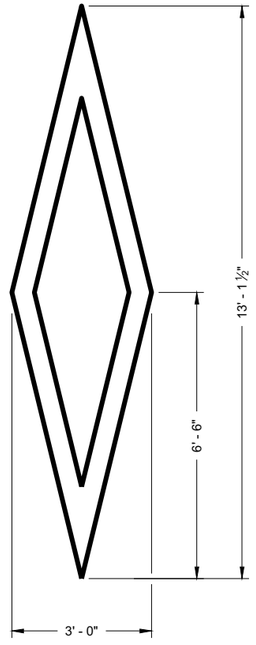
S.D.D. 15 C 6-9

GENERAL NOTES

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



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

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SDD 15C07 - 15a

SDD 15C07 - 15a

PAVEMENT MARKING SYMBOLS

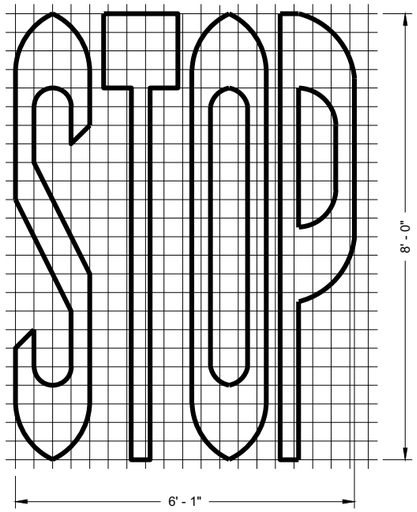
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

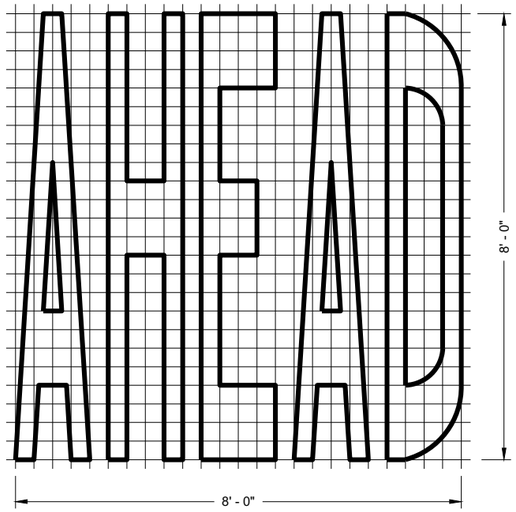
APPROVED
November 2019
DATE

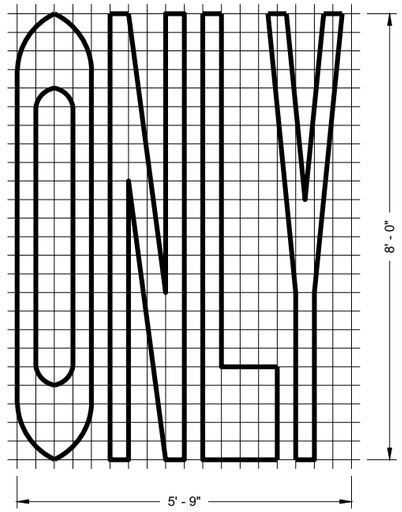
/S/ Matthew Rauch
STATE SIGNING AN
ENGINEE

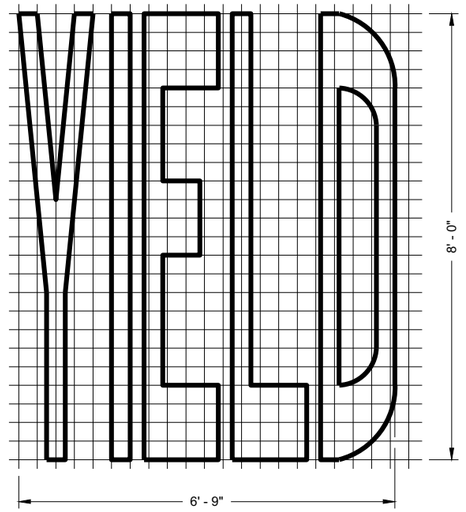
FHWA

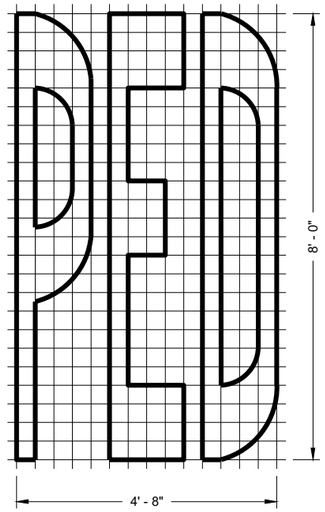
PRE_305

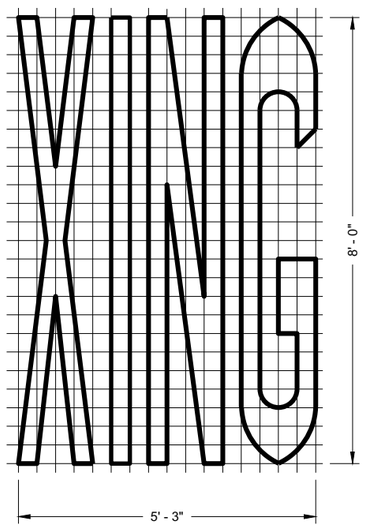


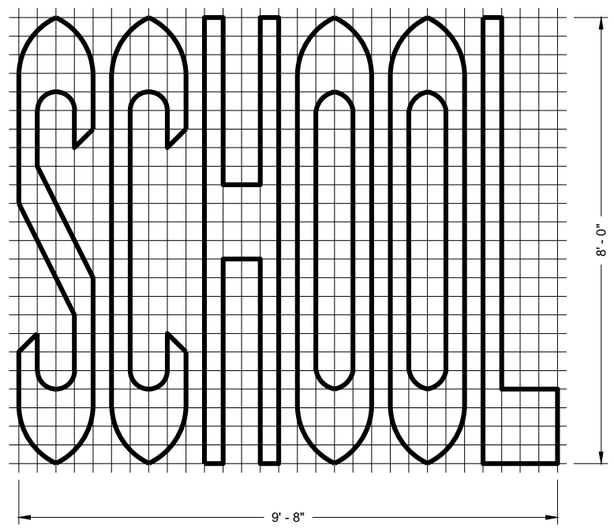




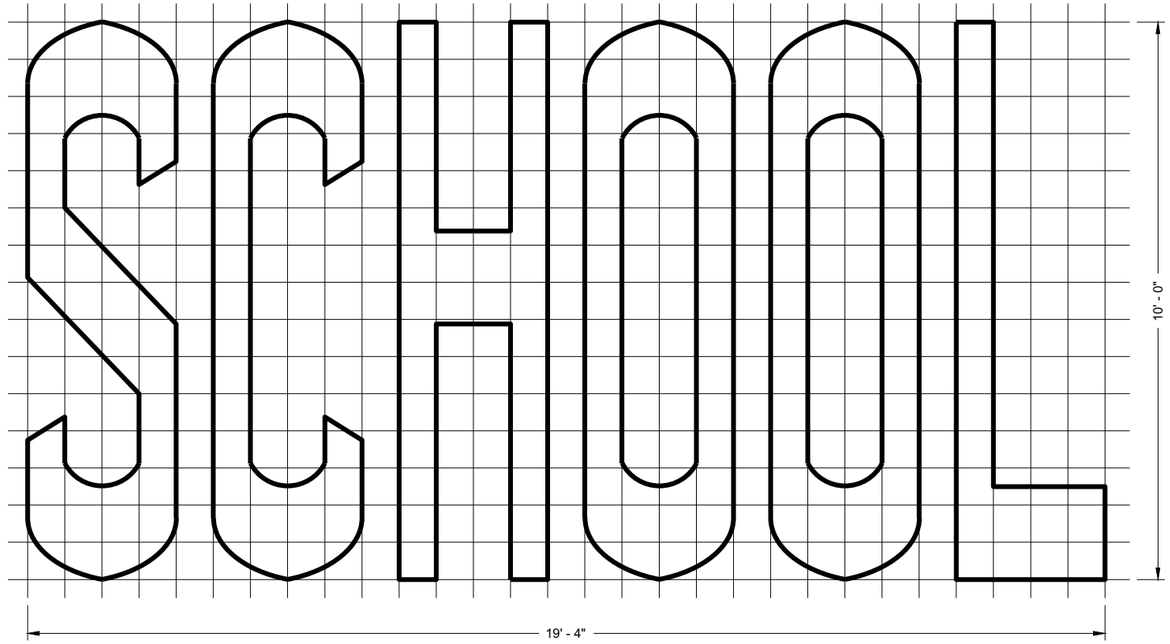








SINGLE LANE



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 AN
ENGINEE

PRE_306

FHWA

6

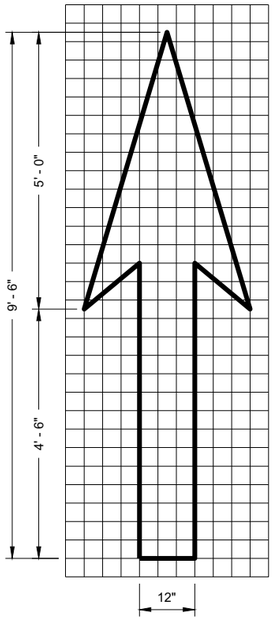
SDD 15C07 - 15b

6

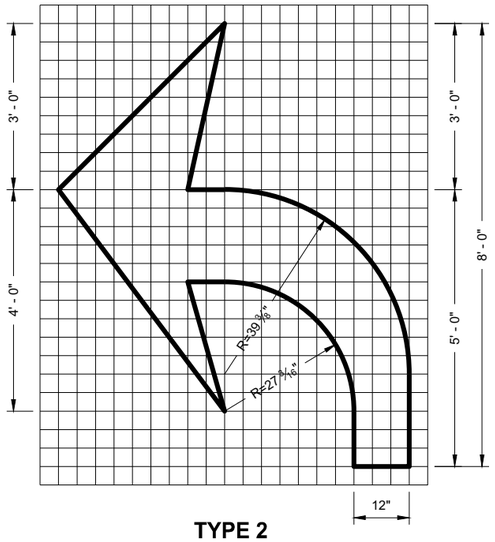
SDD 15C07 - 15b

GENERAL NOTES

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



TYPE 1



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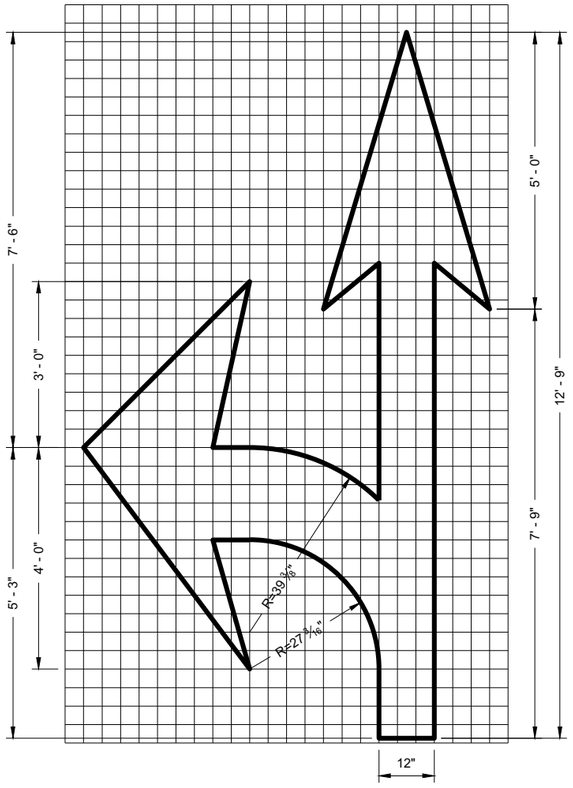

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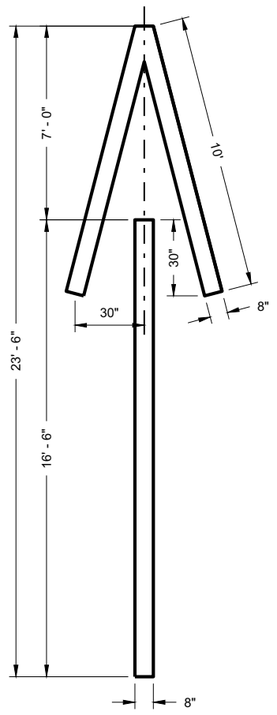
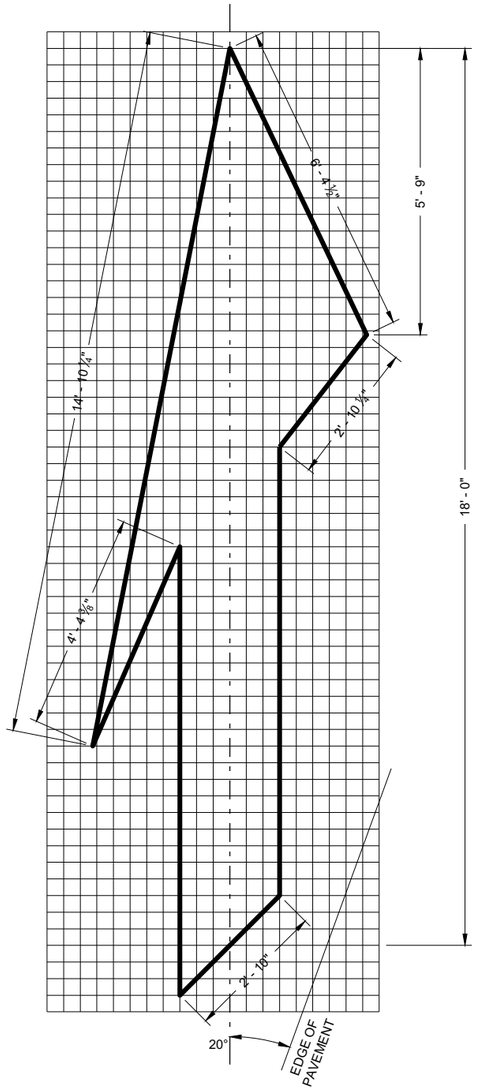
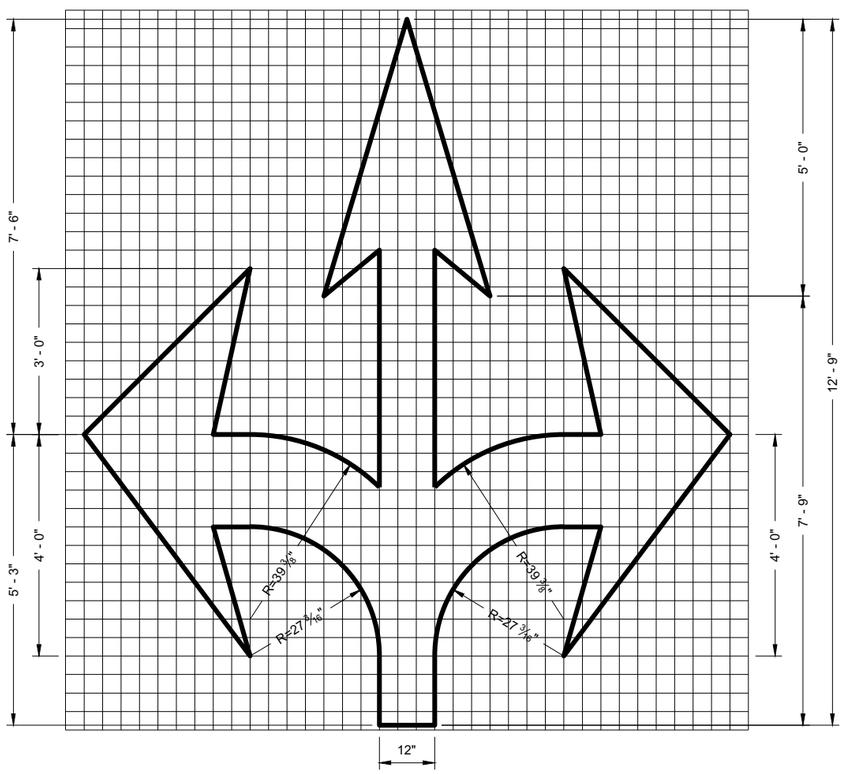


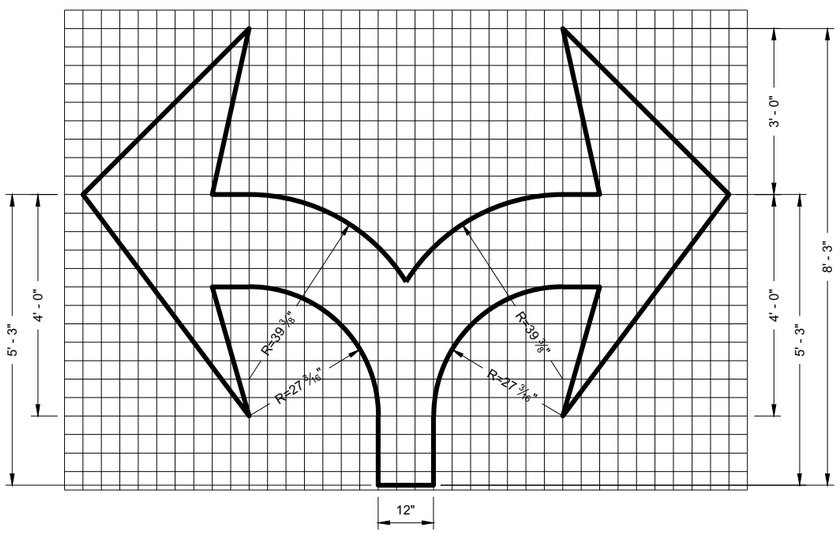
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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November 2019
DATE

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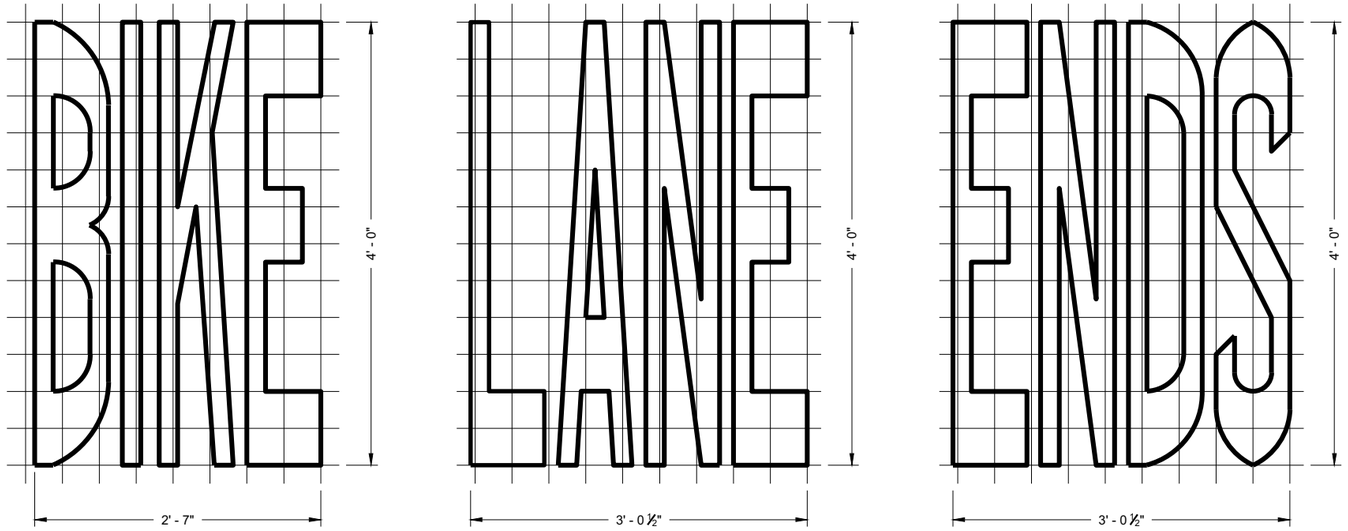
SDD 15C07 - 15c

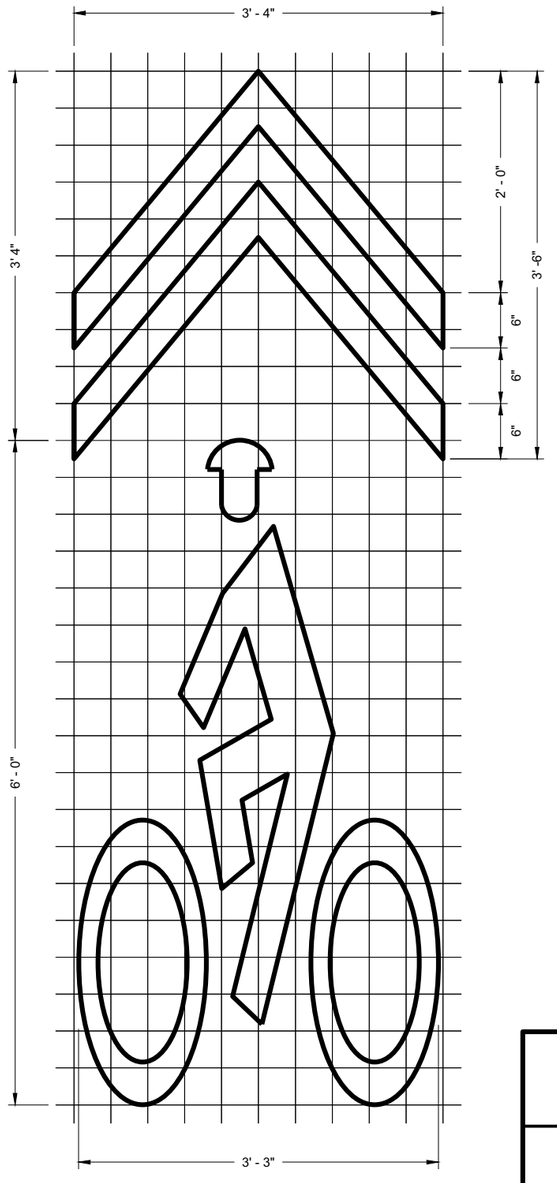
SDD 15C7-e Pavement Marking For Bike Lanes

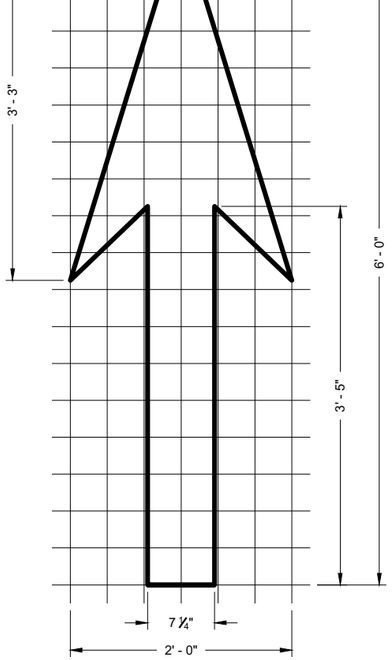


BIKE LANE WORDS

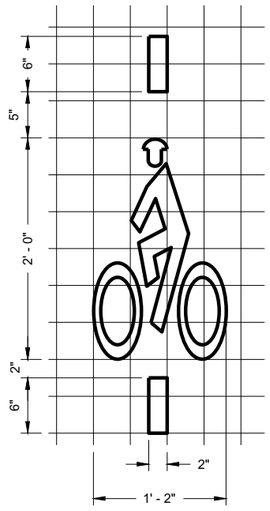
GENERAL NOTES

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

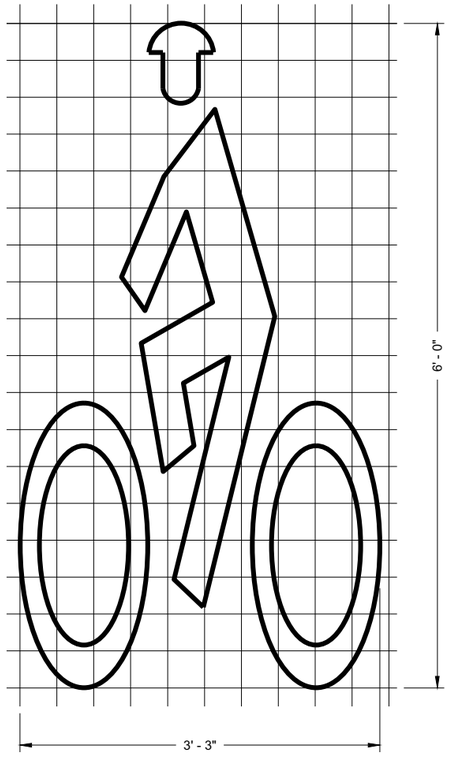




BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
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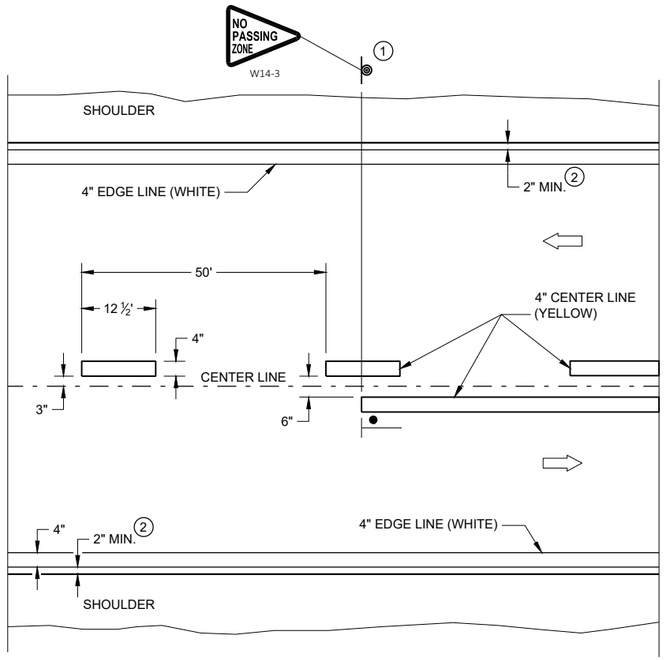
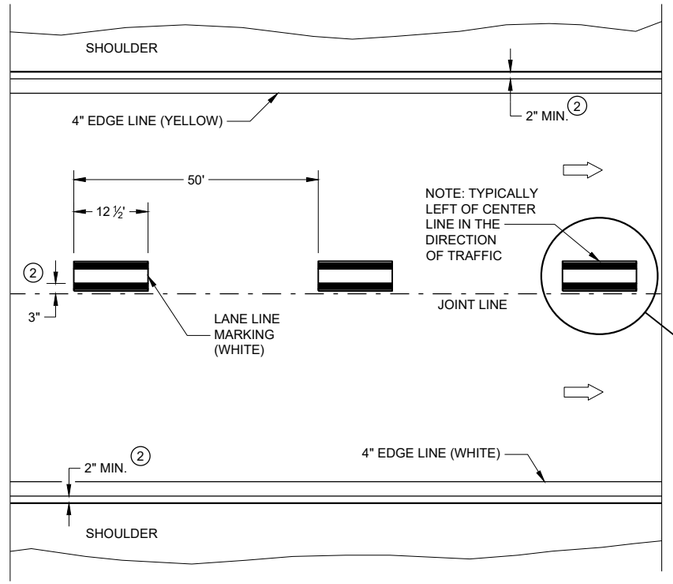
SDD 15C07 - 15e

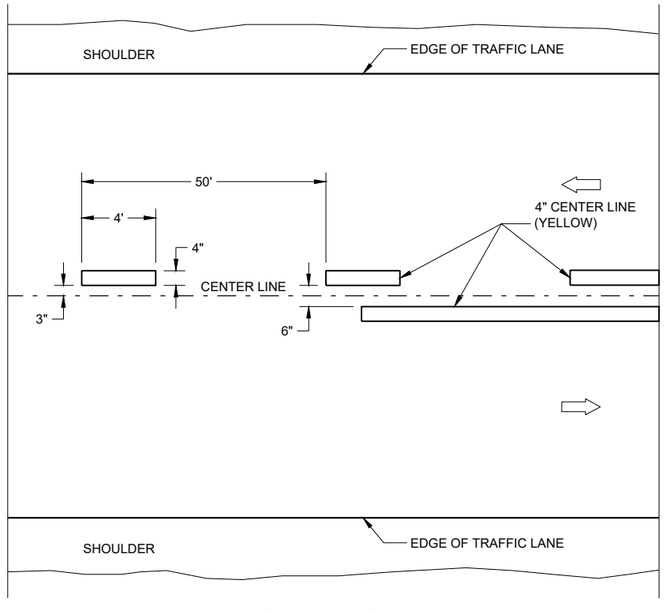


TWO WAY TRAFFIC

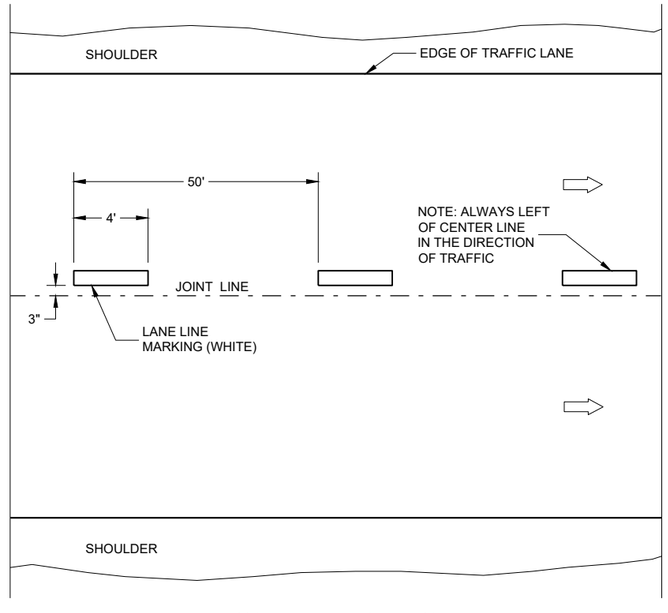


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

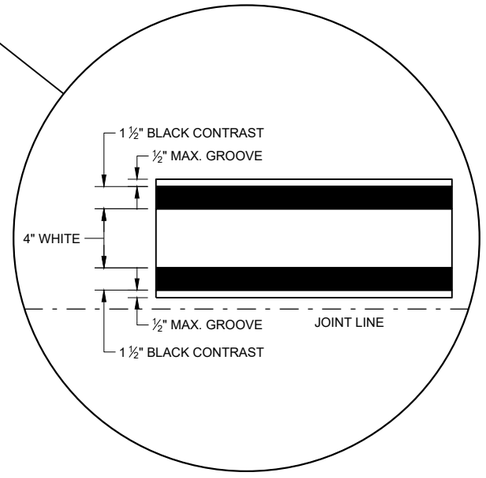
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Matthew Rauch
STATEWIDE SIGNING ENGINEE

PRE_309

FHWA

SDD 15C08 - 20a

SDD 15C08 - 20a

6

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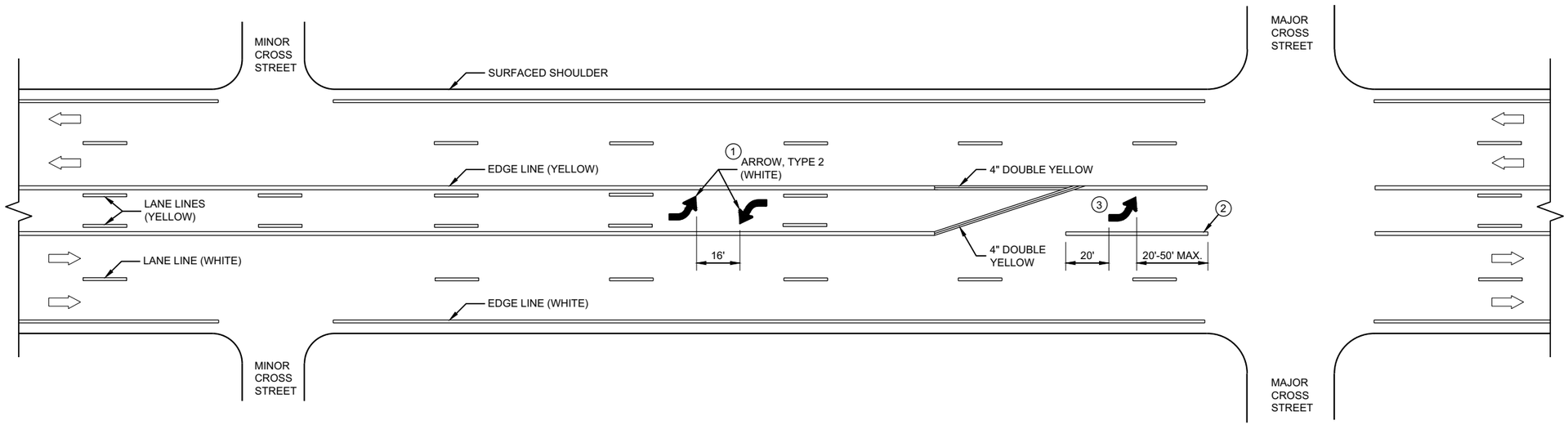
GENERAL NOTES

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

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

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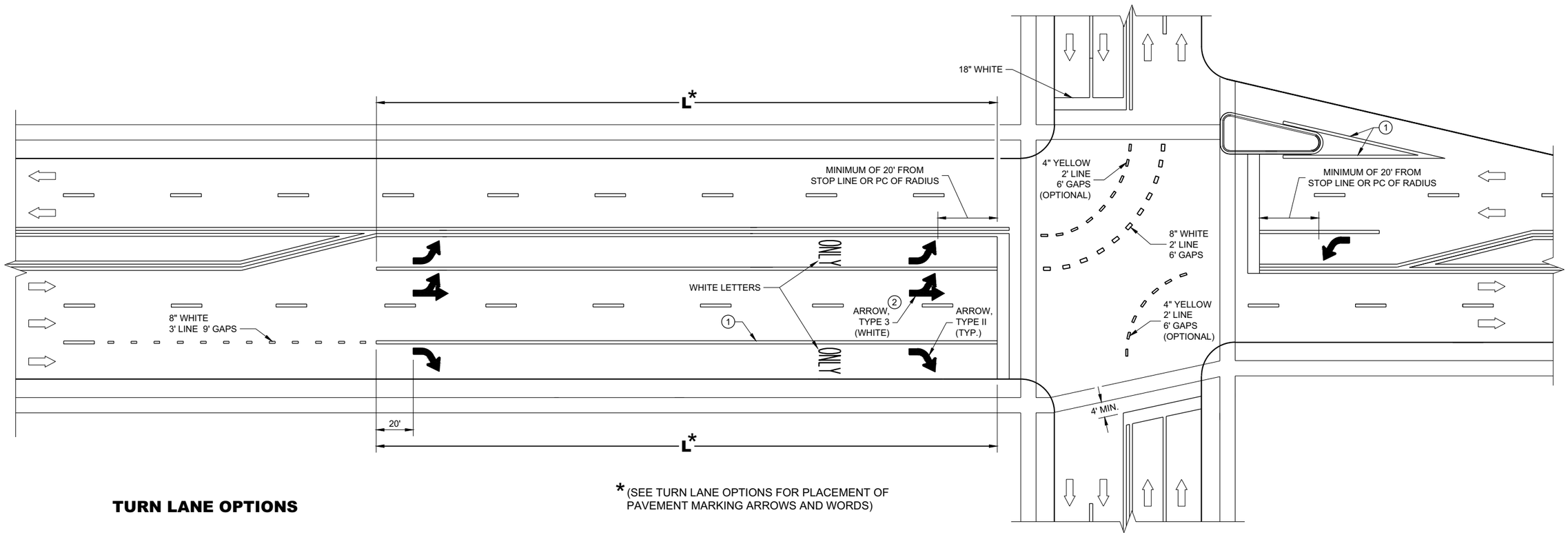
SDD 15C08 - 20b

SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

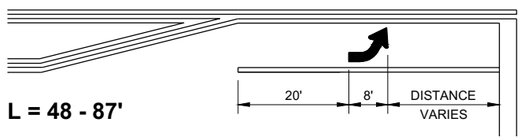
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_310



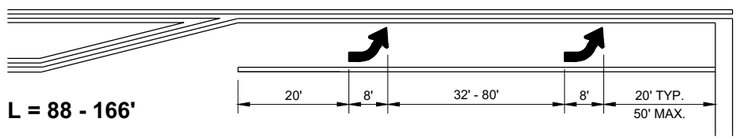
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

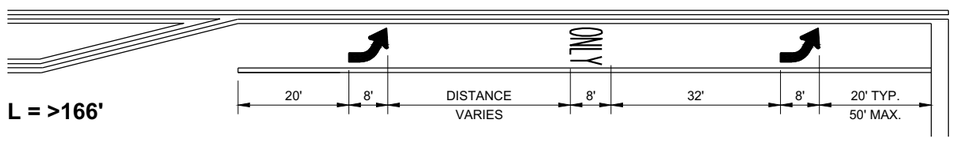
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



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 TRANSPO PRE_311

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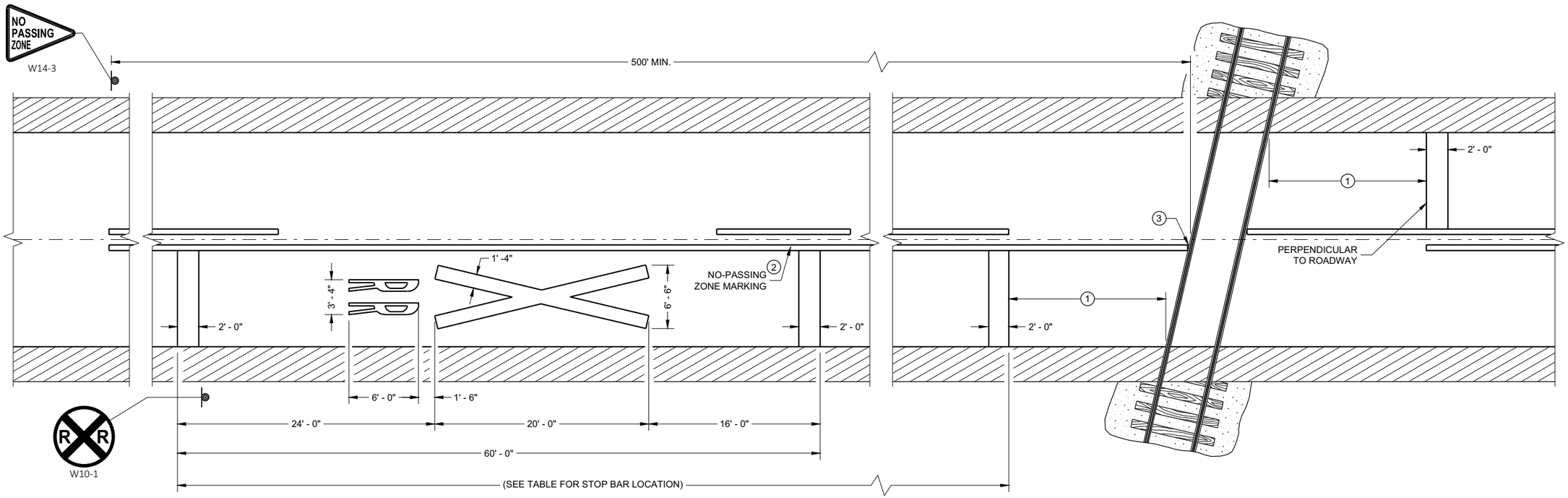
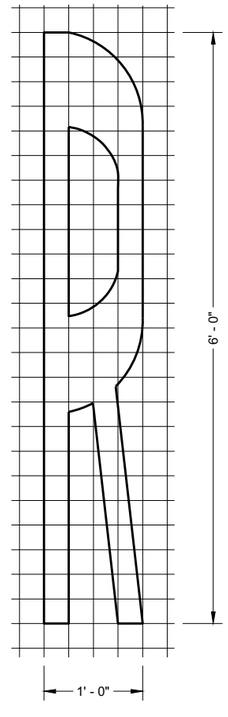
SDD 15C08 - 20c



PAVEMENT MARKING



LEGEND

SIGN ON PERMANENT SUPPORT

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.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNAL , GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

DISTANCE TABLE

TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150* - 250'
30	200* - 300'
35	250* - 450'
40	300* - 500'
45	400* - 650'
50	550* - 800'
55	750* - 1000'
60	1000* - 1250'
65	1000* - 1250'

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

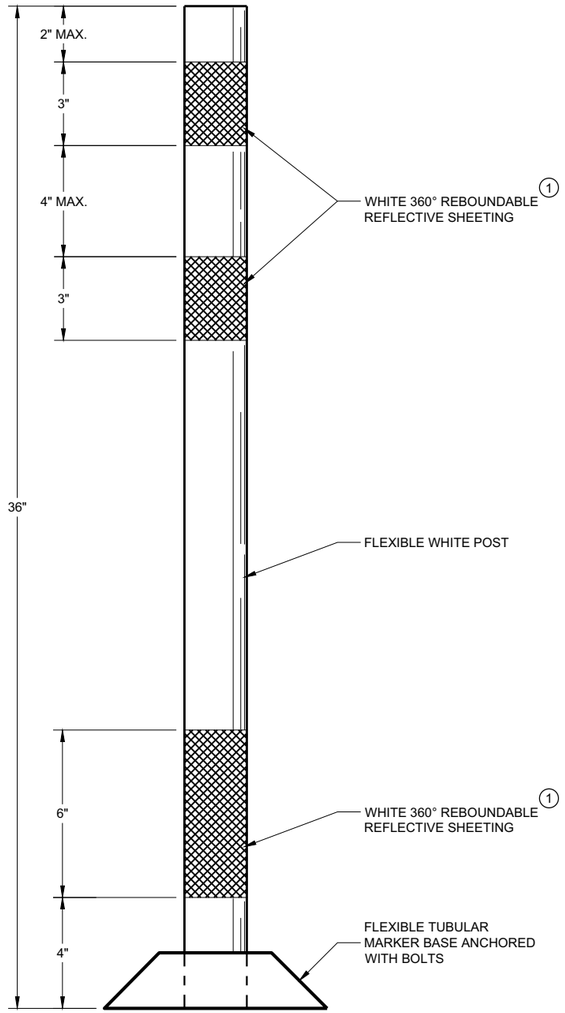
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

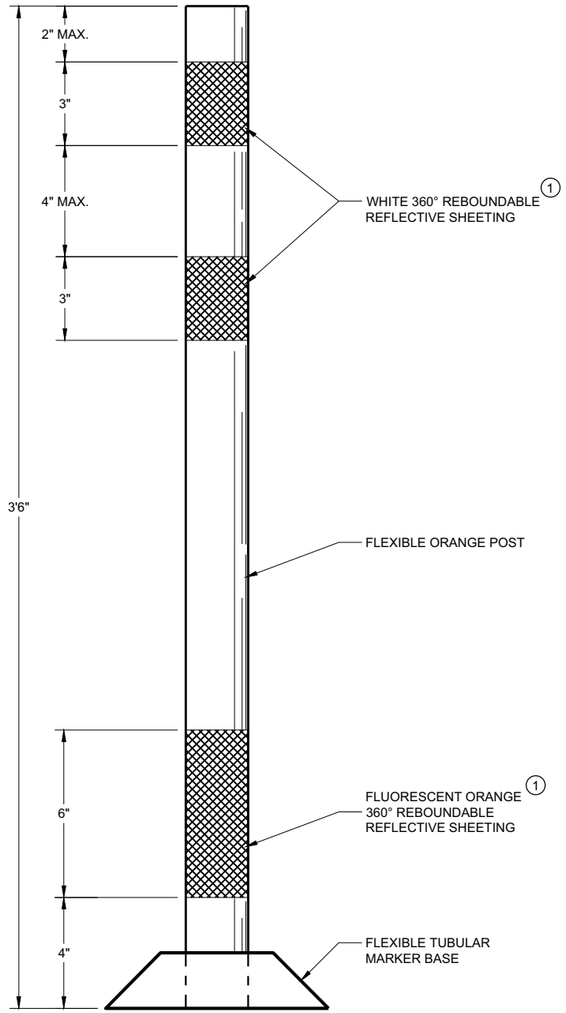
/S/ Matthew R. Rauch
STATE SIGNING AN ENGINEE

PRE_312

FHWA



FLEXIBLE TUBULAR MARKER POST PERMANENT CROSSOVER



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

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

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

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

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CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Andrew Heidtke
WORK ZONE EN

FHWA

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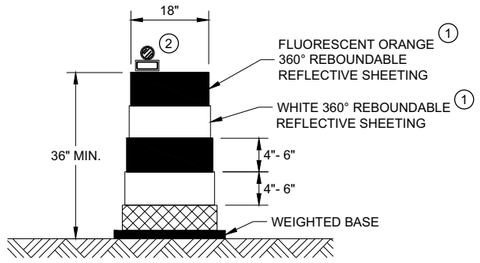
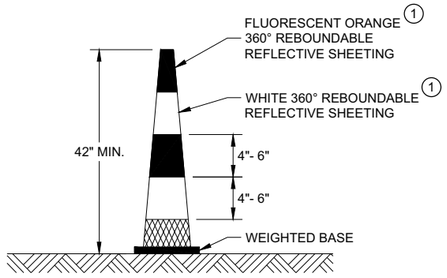
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

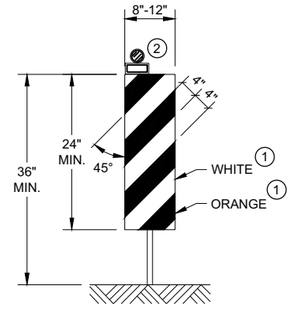


DRUM



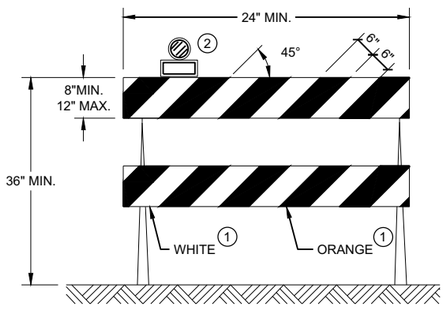
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



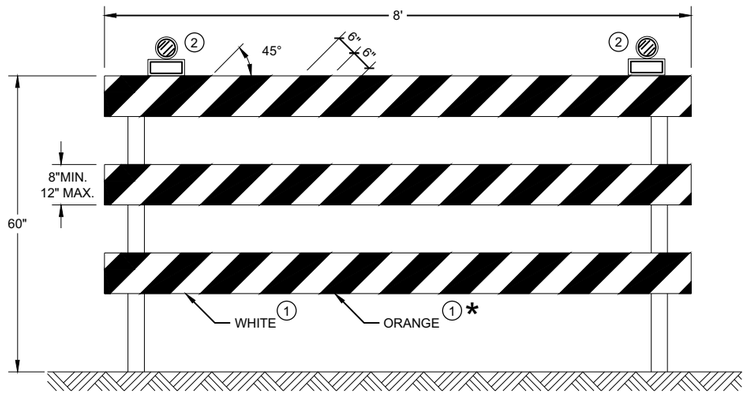
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE
/S/ Andrew Heidtke
WORK ZONE EN
FHWA

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SDD 15C11 - 08b

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.

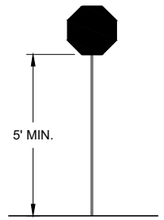
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR 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.



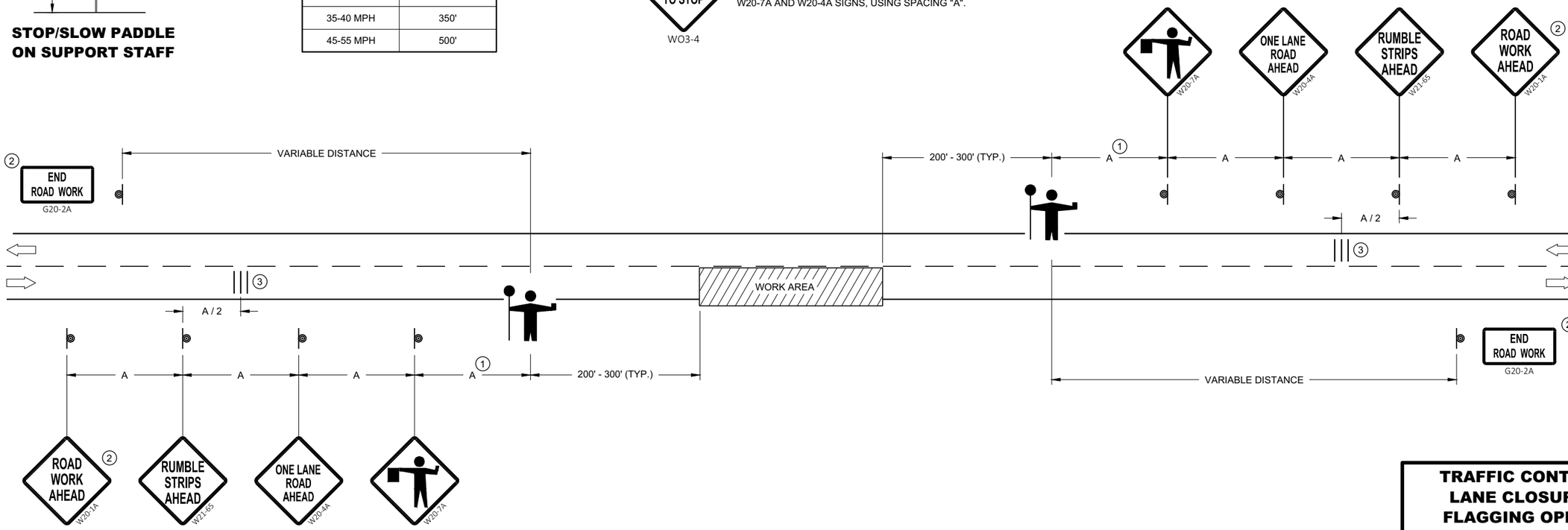
STOP/SLOW PADDLE ON SUPPORT STAFF

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

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE EN

FHWA

PRE_315

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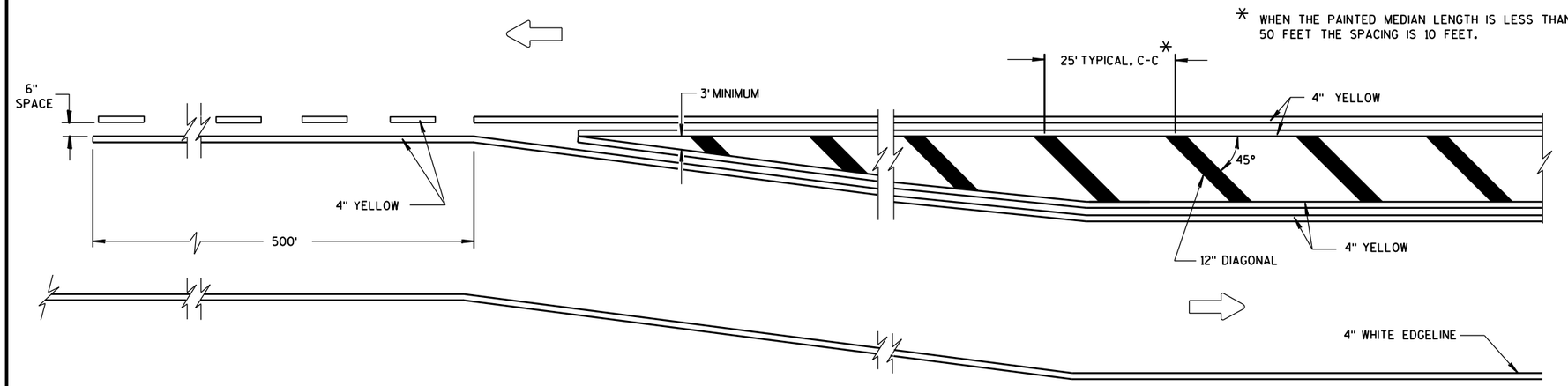
SDD 15C12 - 07

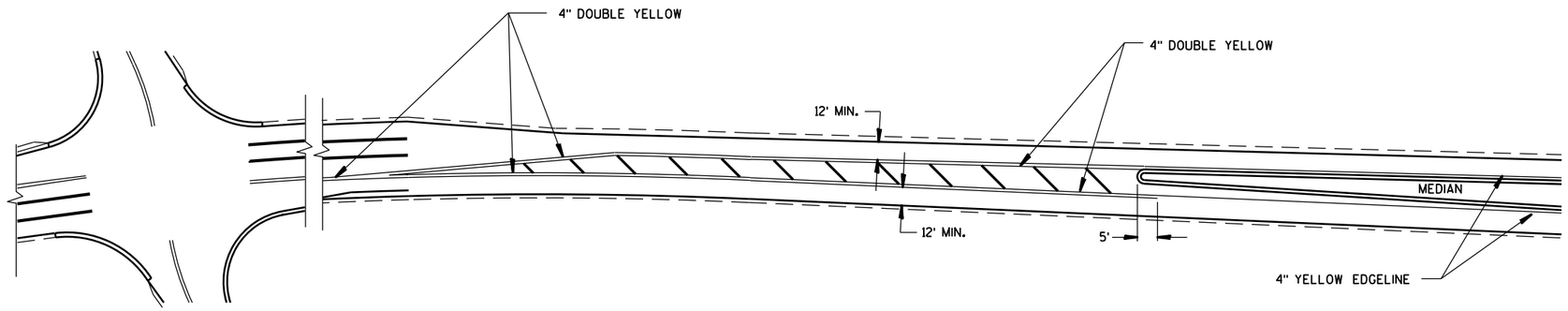


MEDIAN ISLAND DETAIL

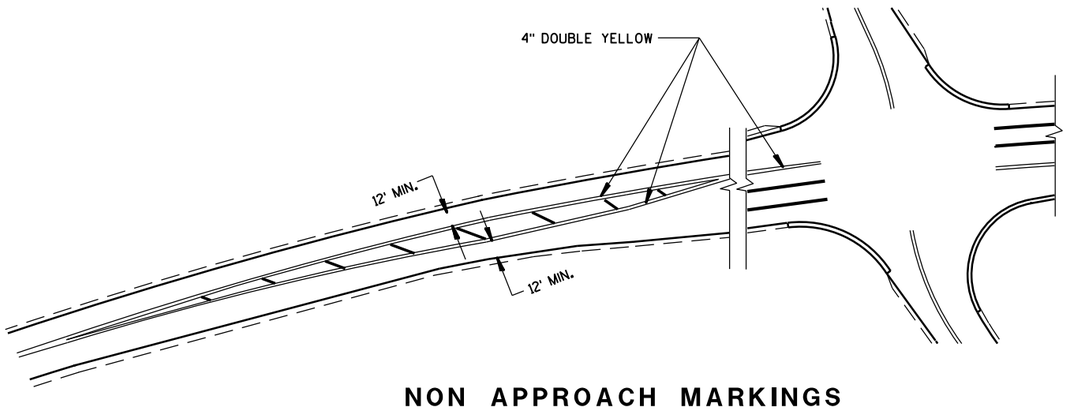
GENERAL NOTE

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

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

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S.D.D. 15 C 18-4

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S.D.D. 15 C 18-4

MEDIAN ISLAND MARKING

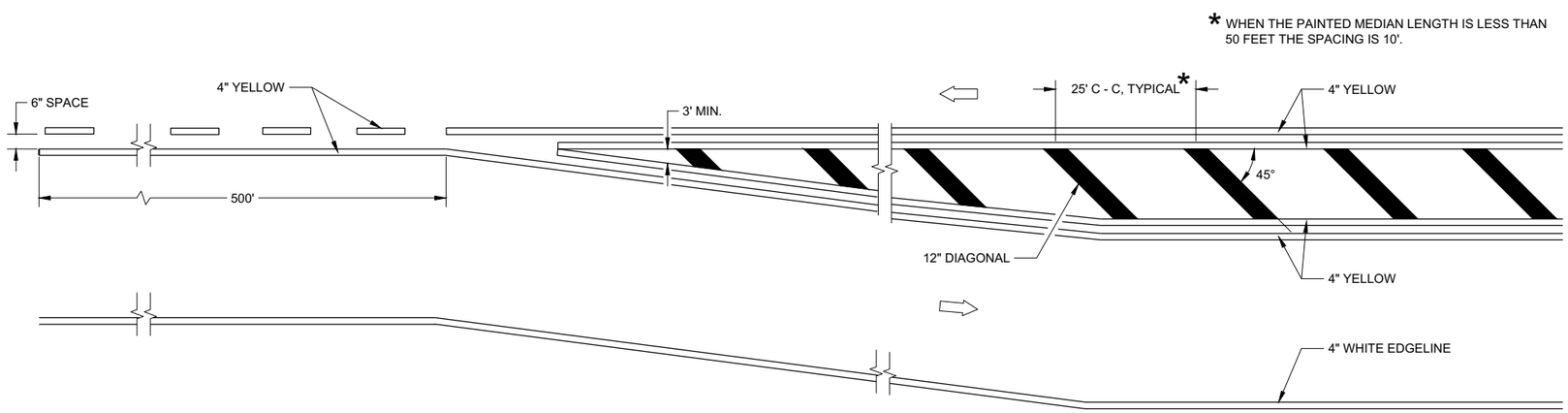
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Matthew Rauch — STATE SIGNING AND PRE_316 ER

FHWA

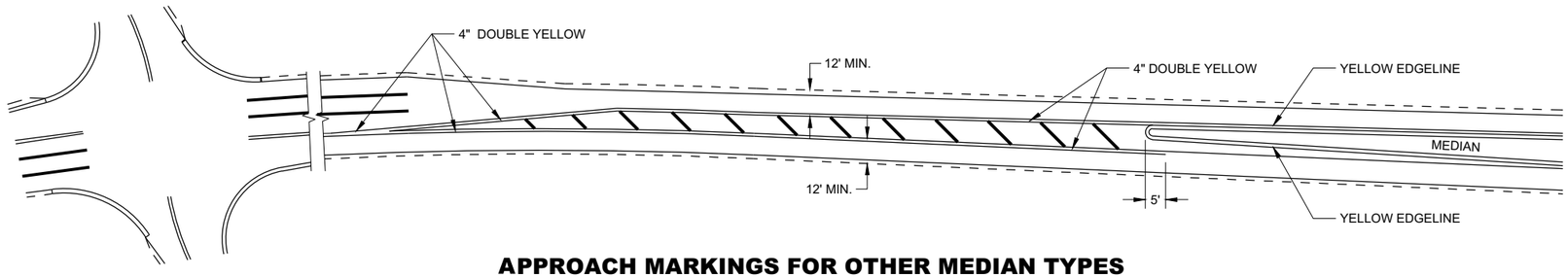


MEDIAN ISLAND DETAIL

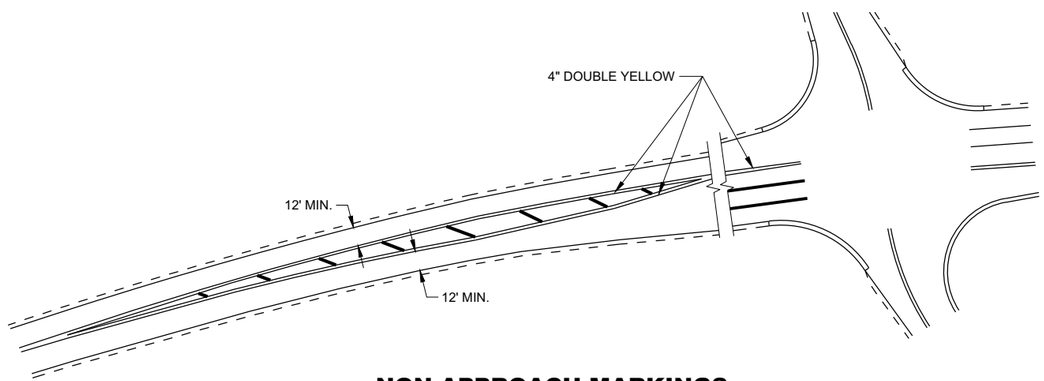
GENERAL NOTES

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

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND PAVEMENT MARKING ENGINEER

FHWA

PRE_317

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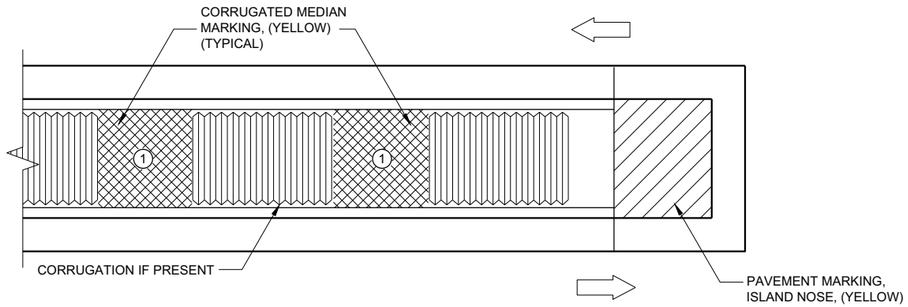
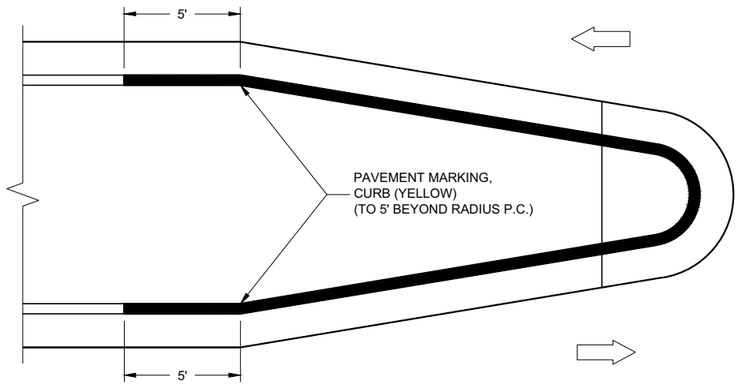
SDD 15C18 - 05a

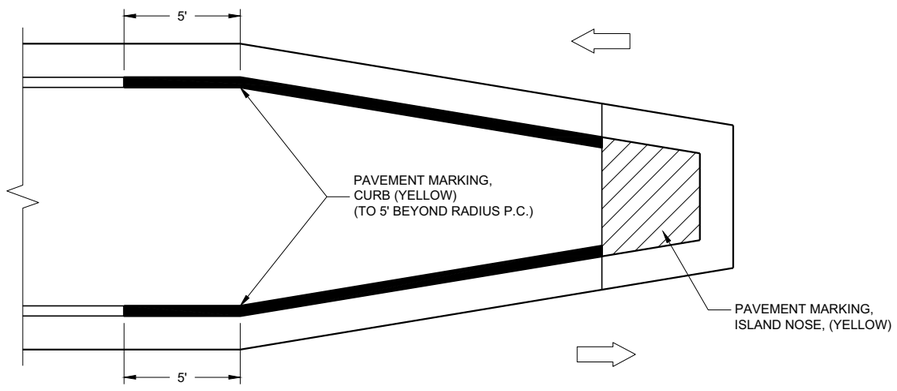
SDD 15C18 - 05a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AN
ENGINEE

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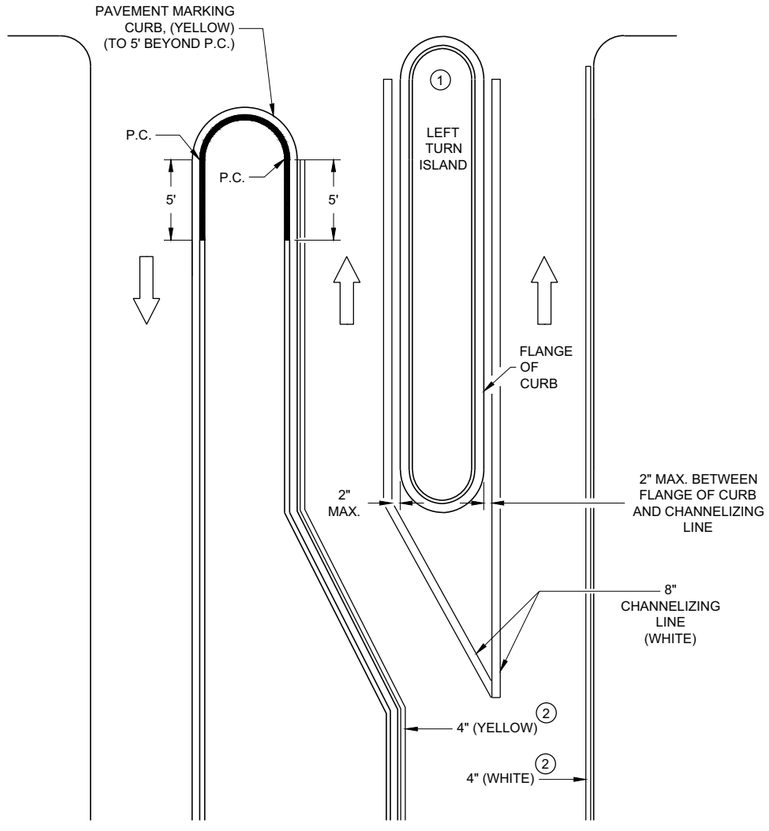
SDD15C18 - 05b

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



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

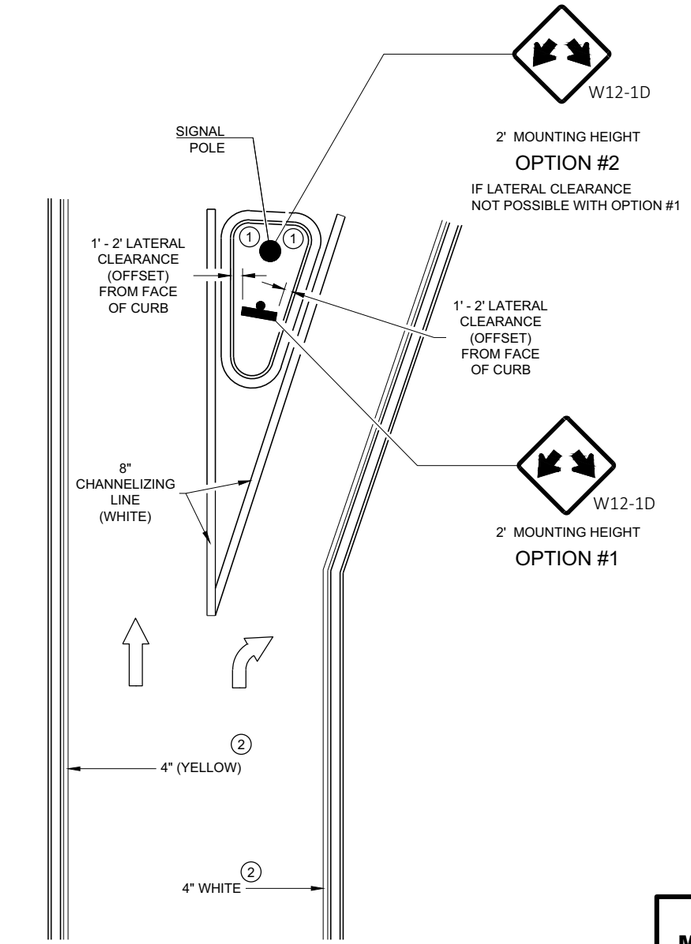
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AN
ENGINEE

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PRE_319

6

SDD 15C18 - 05c

6

SDD 15C18 - 05c

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

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

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

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

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

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

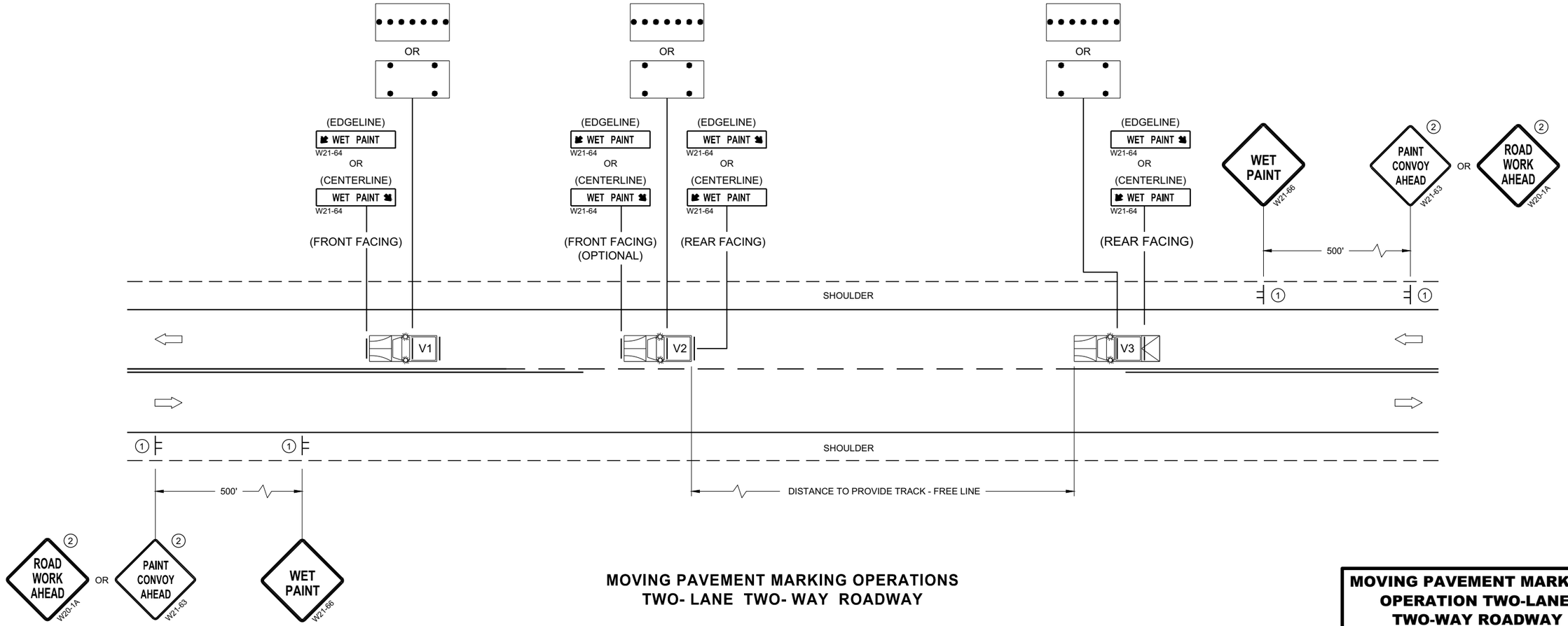
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

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

CONES SHALL BE A MINIMUM OF 18" FOR WET PAVEMENT MARKING .

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

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



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE EN

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FHWA

6

SDD 15C19 - 06a

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SDD 15C19 - 06a

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (MERGE)

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

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

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

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

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

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

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

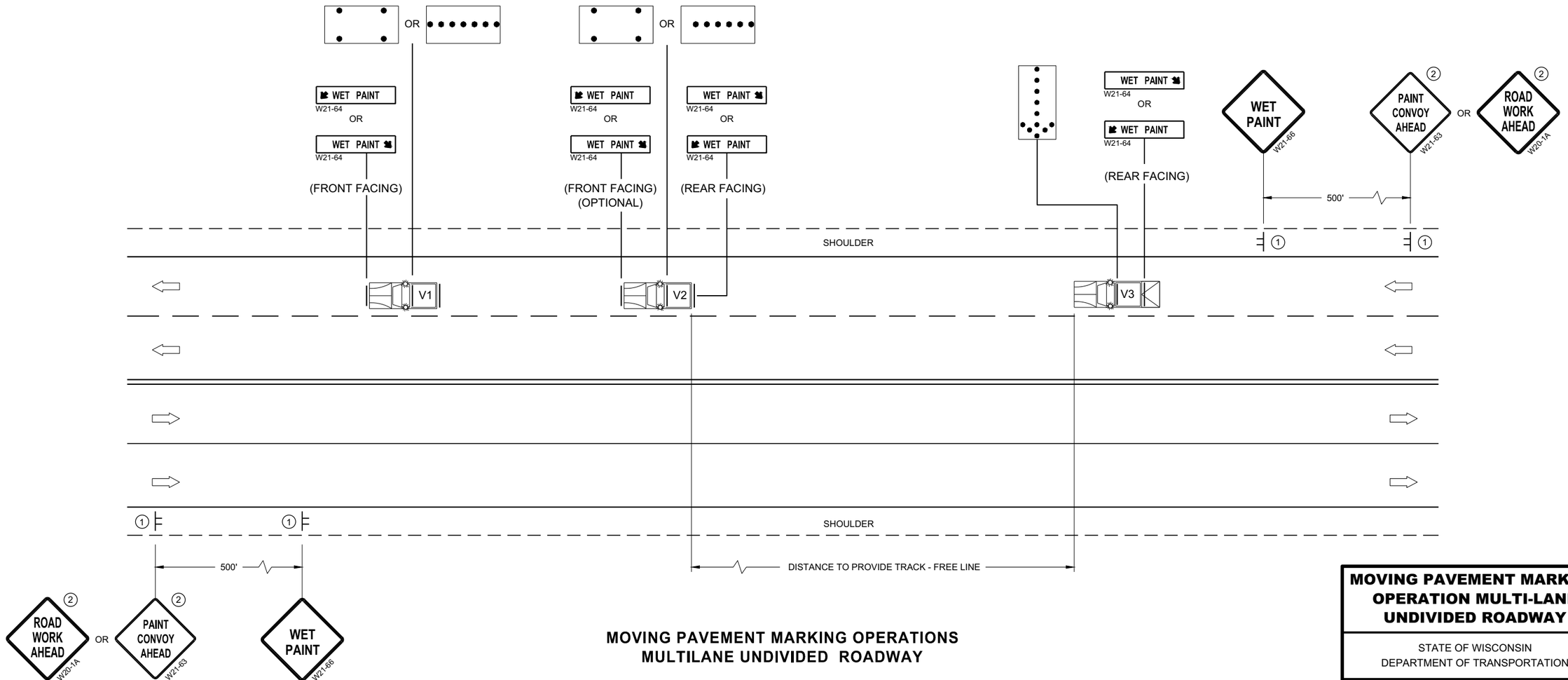
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

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

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

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

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



MOVING PAVEMENT MARKING OPERATIONS MULTILANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE EN

FHWA

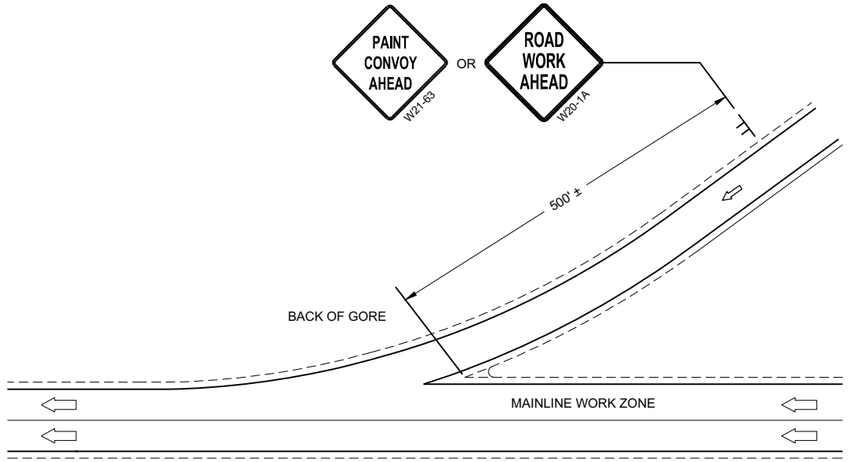
PRE_321

6

SDD 15C19 - 06b

LEGEND

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



GENERAL NOTES

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

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

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

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

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

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

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

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

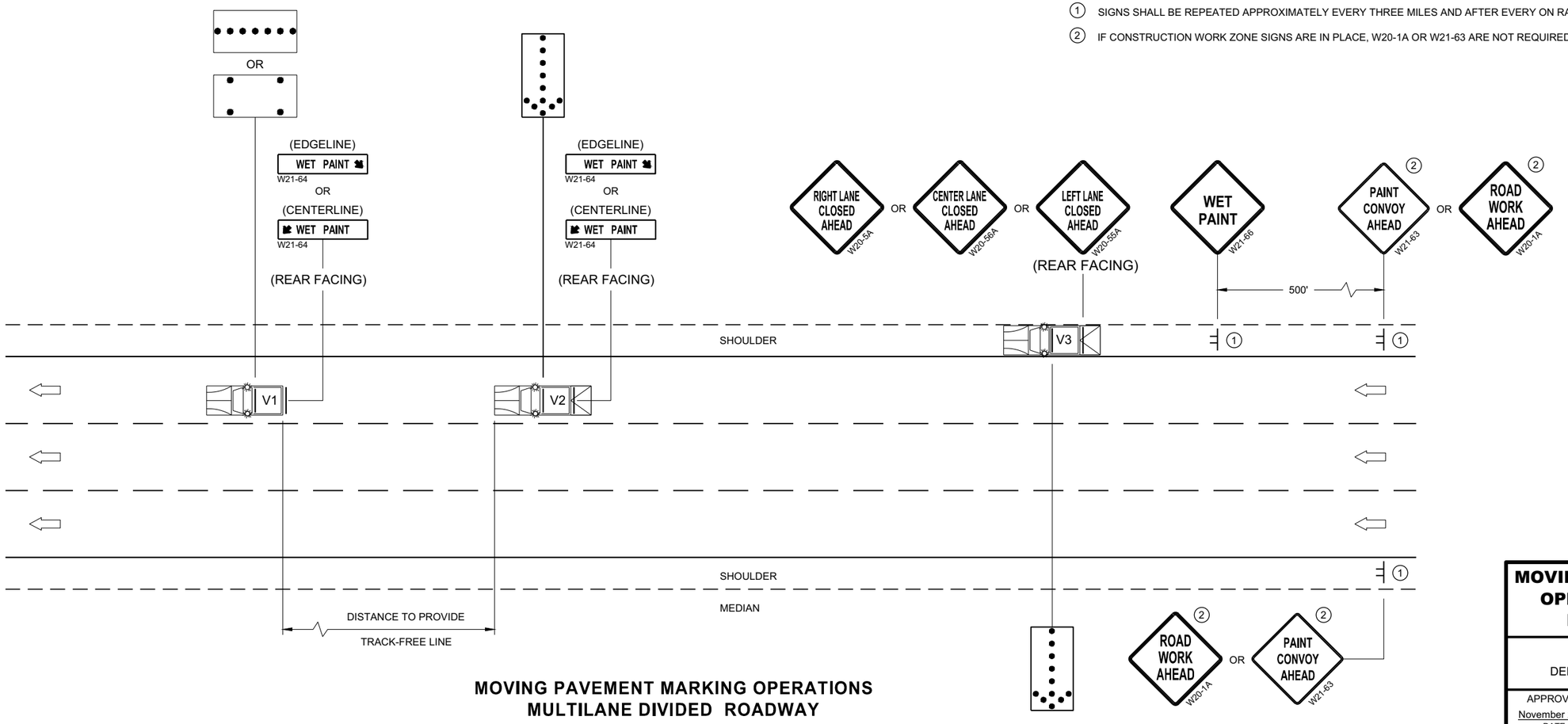
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

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

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

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

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



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE
/S/ Andrew Heidtke
WORK ZONE EN
FHWA

PRE_322

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SDD15C19 - 06c

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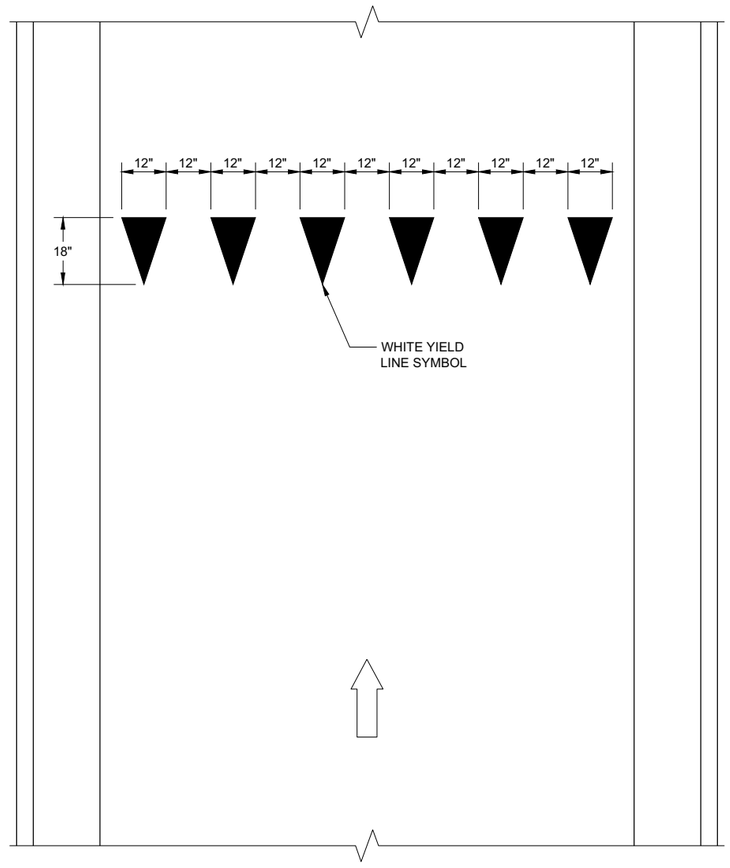
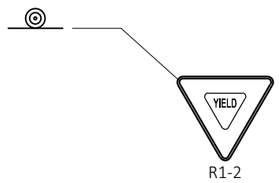
SDD15C19 - 06c



YIELD LINE



R1-2

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL

6

SDD 15C20 - 02

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-81-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AN
ENGINEE

FHWA

PRE_323

6

SDD 15C20 - 02

GENERAL NOTES

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

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

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

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

LEGEND

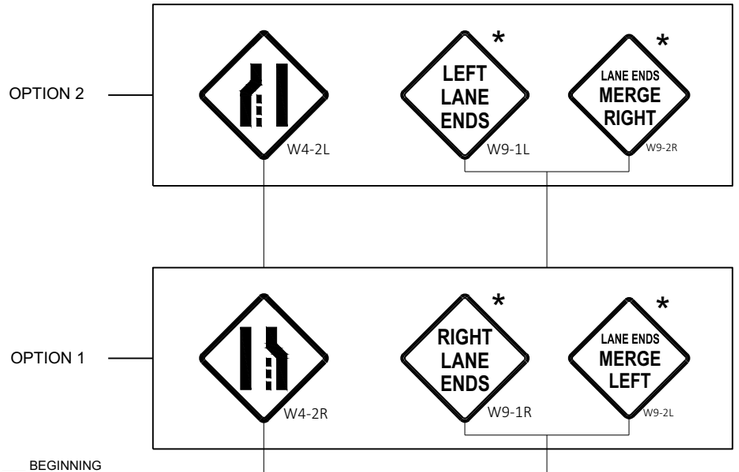
A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

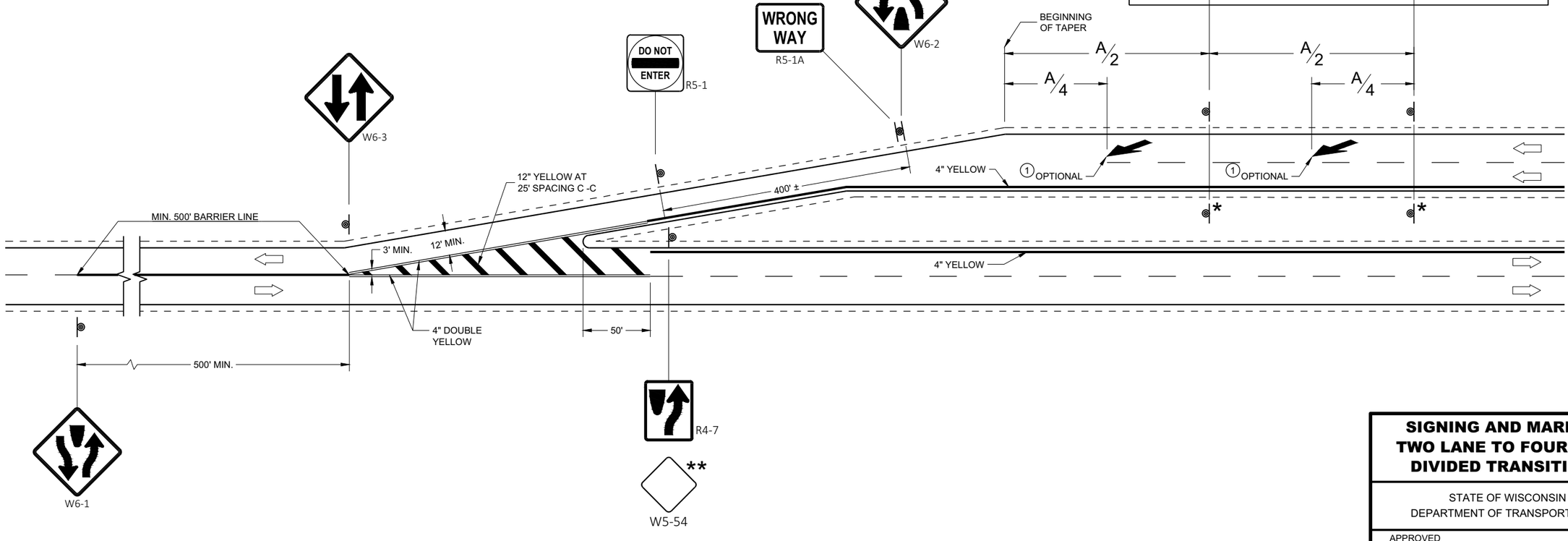
SIGN MOUNTED ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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





SIGNING AND MARKING TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

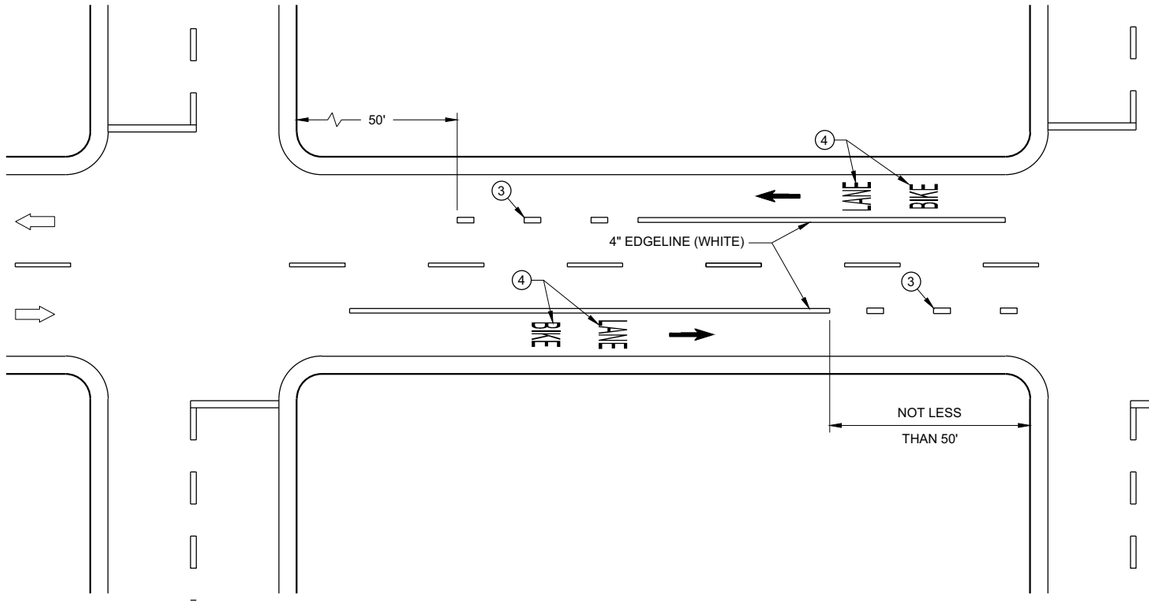
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

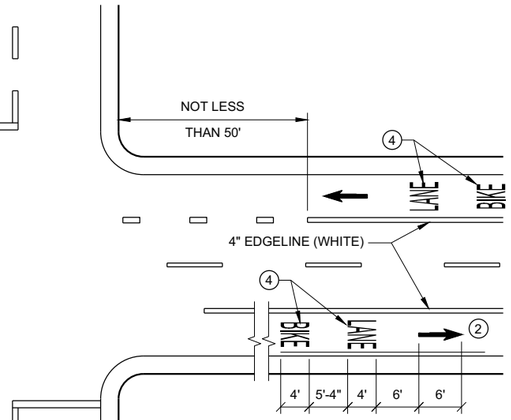
APPROVED
May 2020 — DATE
/S/ Matthew Rauch — STATE SIGNING AN ENGINEE
FHWA

PRE_324

6

SDD 15C21 - 10



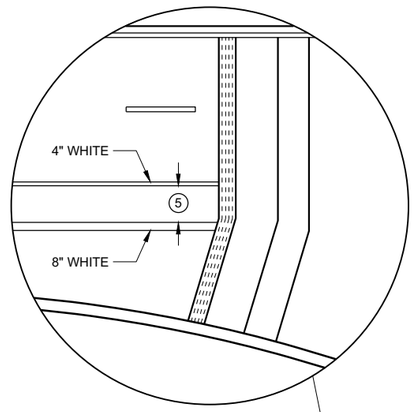


GENERAL NOTES

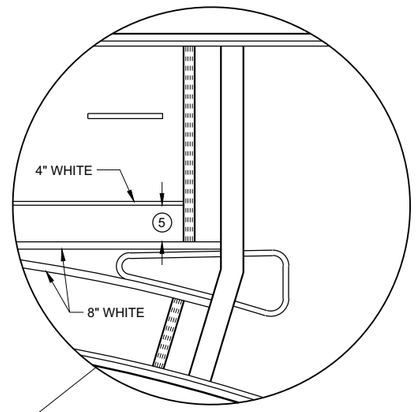
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAVEL

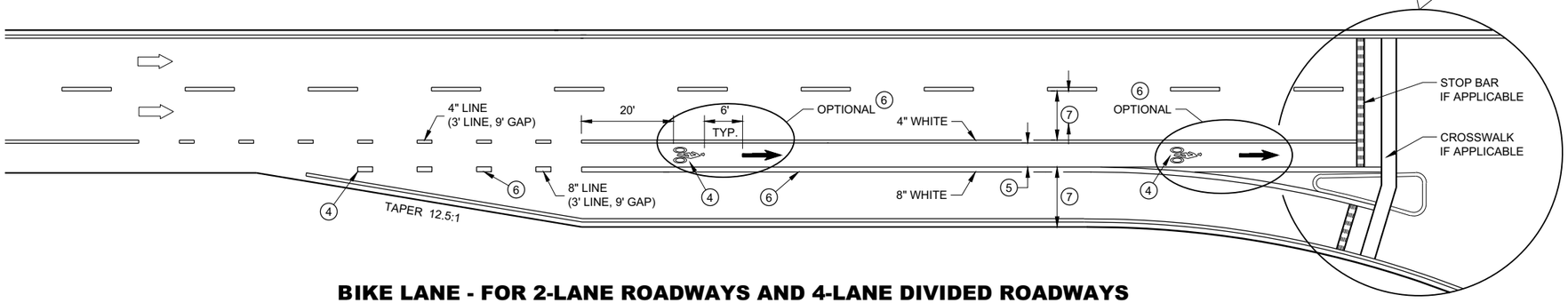
DESIGNATED BIKE LANE - NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Matthew Rauch
STATE SIGNING AN ENGINEE

FHWA

PRE_325

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SDD 15C29 - 07a

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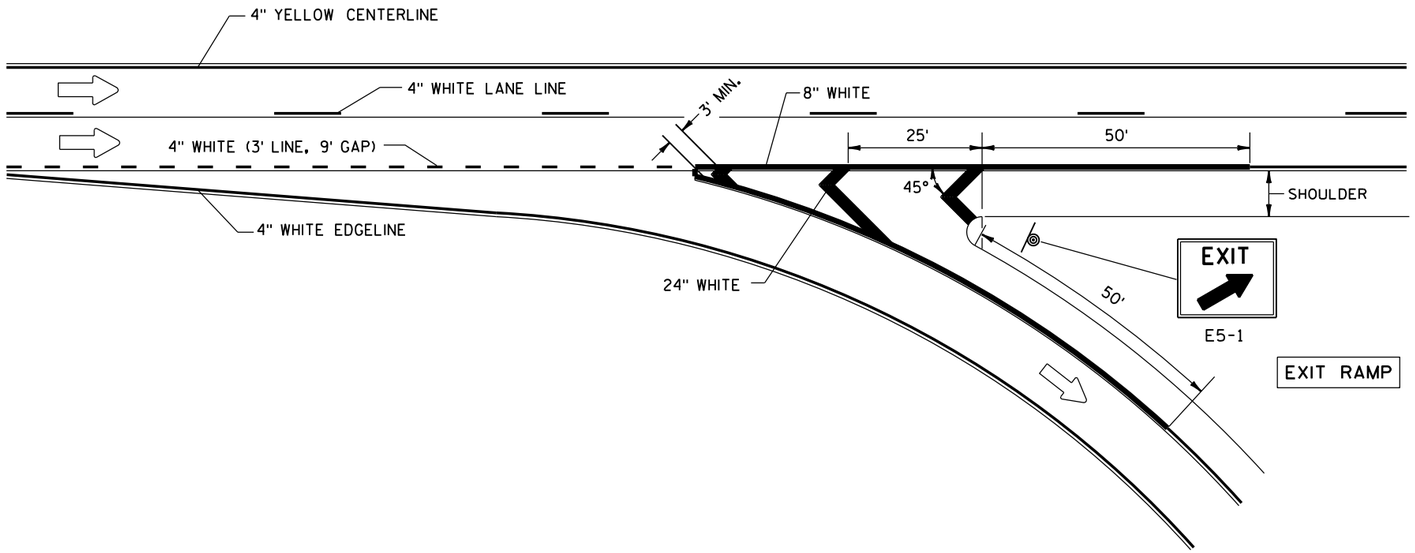
SDD 15C29 - 07a



PAVEMENT MARKING FOR EXIT RAMP

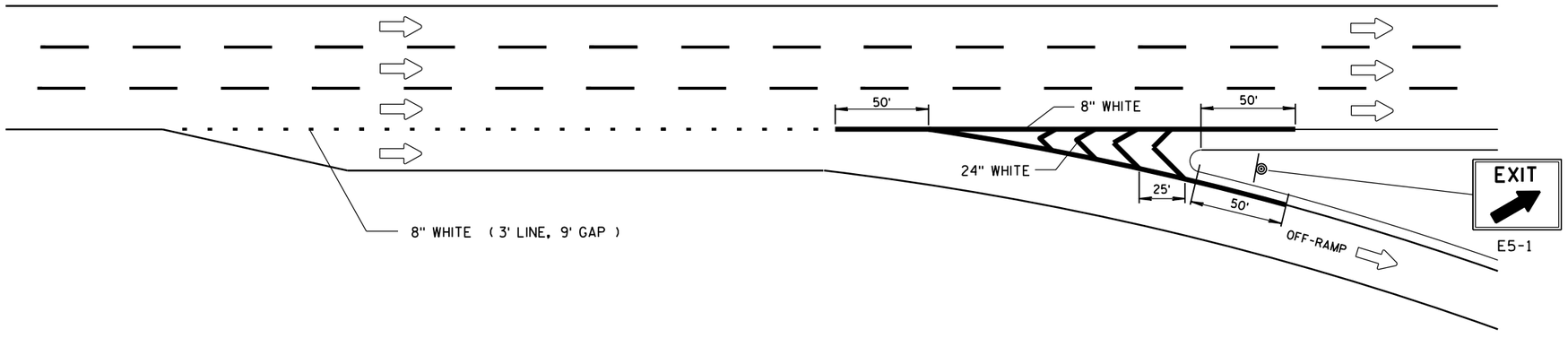
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

DIRECTION OF TRAVEL

SIGN ON PERMANENT SUPPORT



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT-RAMP

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S.D.D. 15 C 31-3a

PAVEMENT MARKING (RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRAN PRE_326

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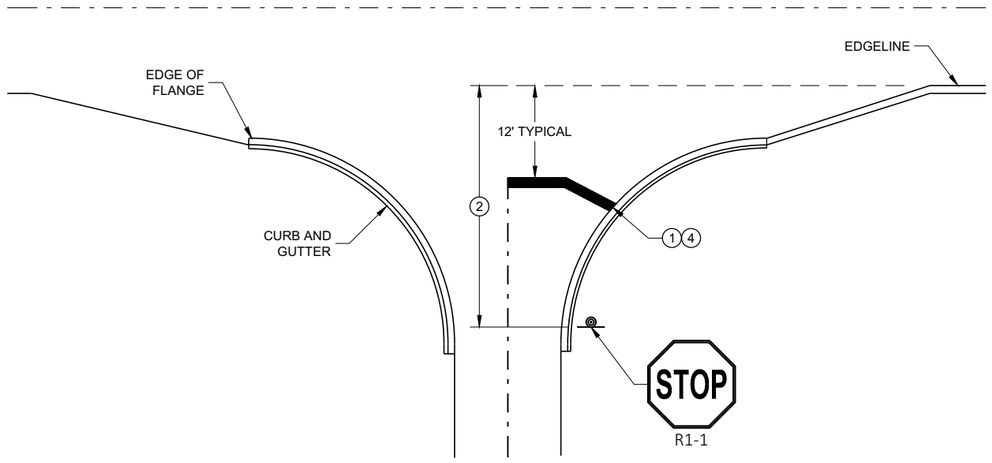
S.D.D. 15 C 31-3a

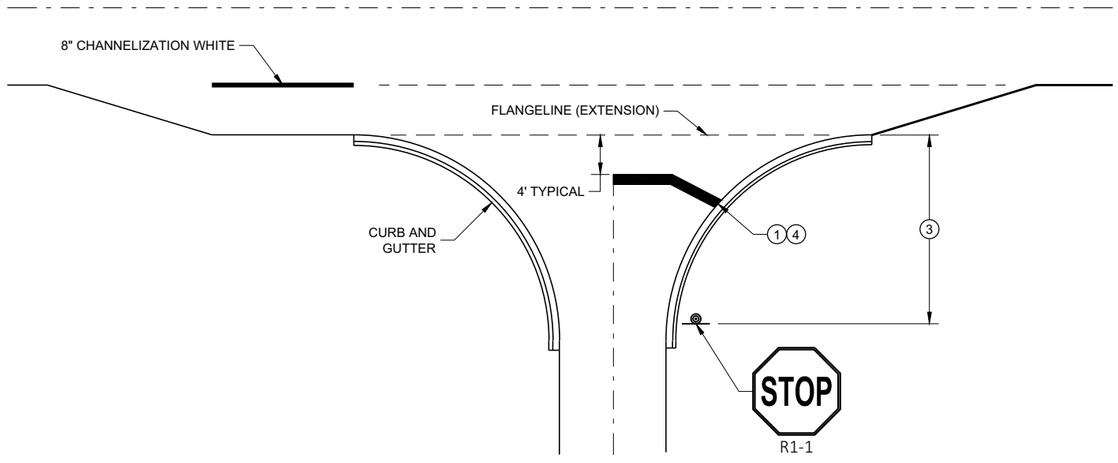
GENERAL NOTES

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

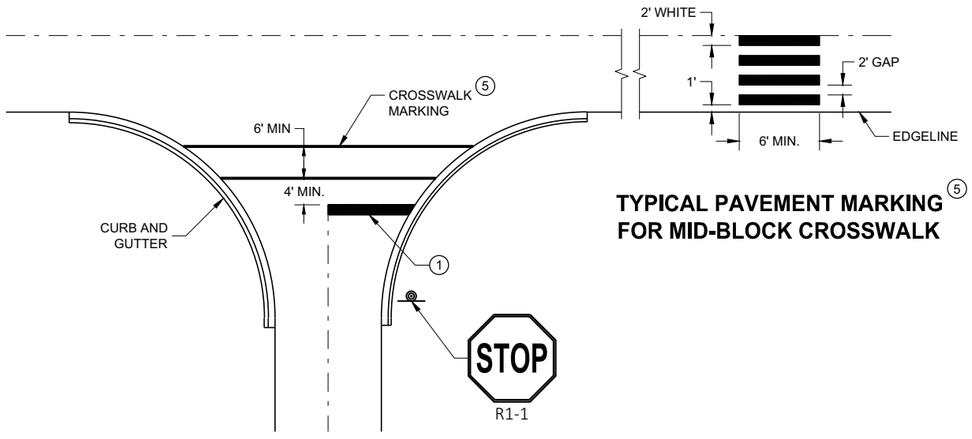
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

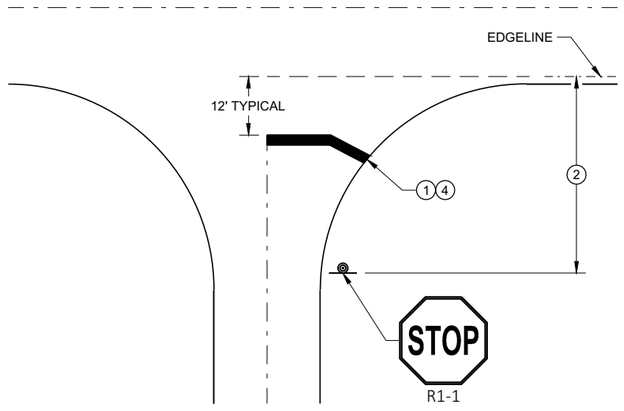


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING 5 FOR MID-BLOCK CROSSWALK

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AN ENGINEE

FHWA

PRE_327

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SDD 15C33 - 04

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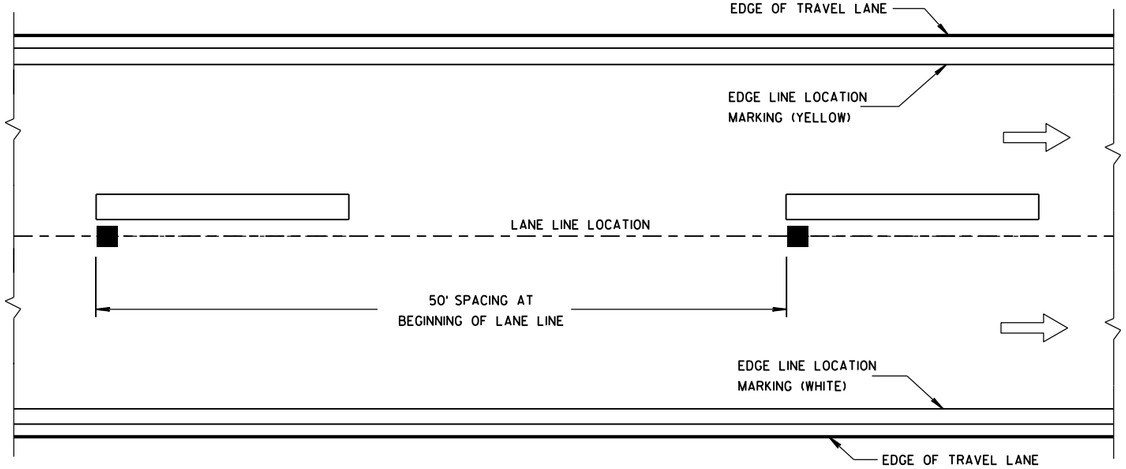
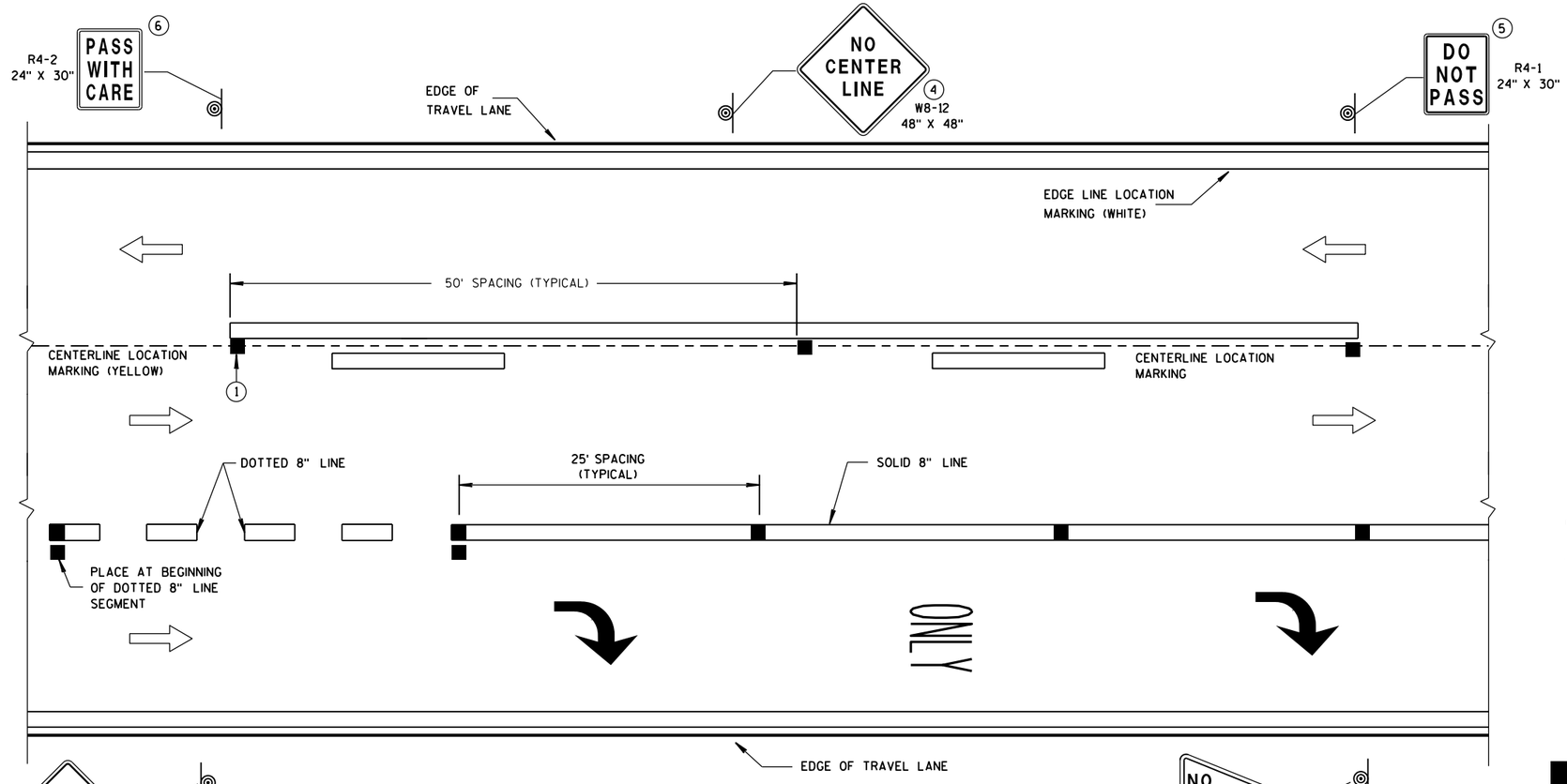
SDD 15C33 - 04



LONGITUDINAL PLACEMENT 4-INCH LANE LINE



LONGITUDINAL PLACEMENT 4-INCH CENTERLINE AND 8-INCH CHANNEL LINE

GENERAL NOTES

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

COLOR OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II SHALL MATCH THE COLOR OF THE MARKING THEY SUPPLEMENT.

PLACEMENT OF TEMPORARY RAISED PAVEMENT MARKERS ON EDGE LINES ARE OPTIONAL. IF PLACED ON EDGE LINES, MAXIMUM SPACING SHALL BE 50 FEET.

PROVIDE SINGLE OR MULTI-COVER TEMPORARY RAISED PAVEMENT MARKERS AS SHOWN ON PLAN.

MARK T's ON PAVEMENT FOR RE-ESTABLISHING NO PASSING ZONES.

SAME DAY TEMPORARY PAVEMENT MARKING MAY BE USED IN LIEU OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF TEMPORARY SAME DAY PAVEMENT MARKING IS USED, ENSURE PROPOSED PAVEMENT MARKINGS ARE PLACED IN THE EXACT LOCATIONS AS THE EXISTING MARKINGS, USING A MINIMAL AMOUNT OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II OR OTHER METHODS AS APPROVED BY THE ENGINEER.

IF ROADWAY IS DETOURED DURING CONSTRUCTION, THE DO NOT PASS, PASS WITH CARE AND NO CENTERLINE SIGNS MAY BE OMITTED, PROVIDED A LIQUID MARKING IS INSTALLED BEFORE THE ROADWAY IS REOPENED TO TRAFFIC.

(1) FOR DOUBLE SOLID YELLOW, PLACE THE MARKERS BETWEEN THE LINES.

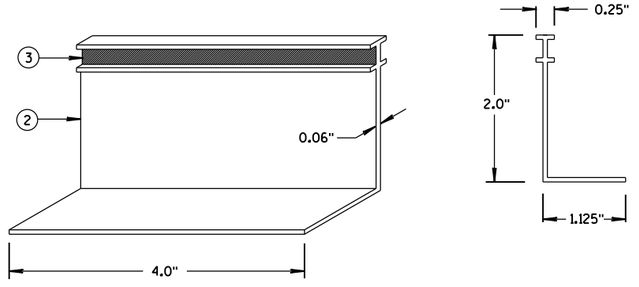
(2) MARKERS SHALL BE OF POLYURETHANE MATERIAL.

(3) MARKERS SHALL HAVE A MINIMUM SIZE REFLECTIVE SURFACE OF 4 INCH WIDTH X 0.25 INCH HEIGHT.

(4) NO CENTER LINE SIGNS SHALL BE PLACED AT THE BEGINNING OF PROJECT, AT TWO-MILE INTERVALS AND AFTER STATE AND COUNTY HIGHWAY INTERSECTIONS.

(5) DO NOT PASS SIGNS SHALL BE INSTALLED AT THE BEGINNING OF NO PASSING ZONES. ADDITIONAL DO NOT PASS SIGNS SHALL BE INSTALLED AT ONE MILE INTERVALS AND AFTER STATE AND COUNTY HIGHWAY INTERSECTIONS WITHIN THE NO PASSING ZONE.

(6) PASS WITH CARE SIGNS SHALL BE PLACED AT THE DOWNSTREAM END OF NO PASSING ZONES.



ISOMETRIC VIEW

SIDE VIEW

TEMPORARY RAISED PAVEMENT MARKER, TYPE II

LEGEND

- TEMPORARY RAISED PAVEMENT MARKER, TYPE II
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAVEL

STANDARD APPLICATION FOR TEMPORARY RAISED PAVEMENT MARKERS, TYPE II

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND PRE_328 NEER
FHWA

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S.D.D. 15 C 34-3

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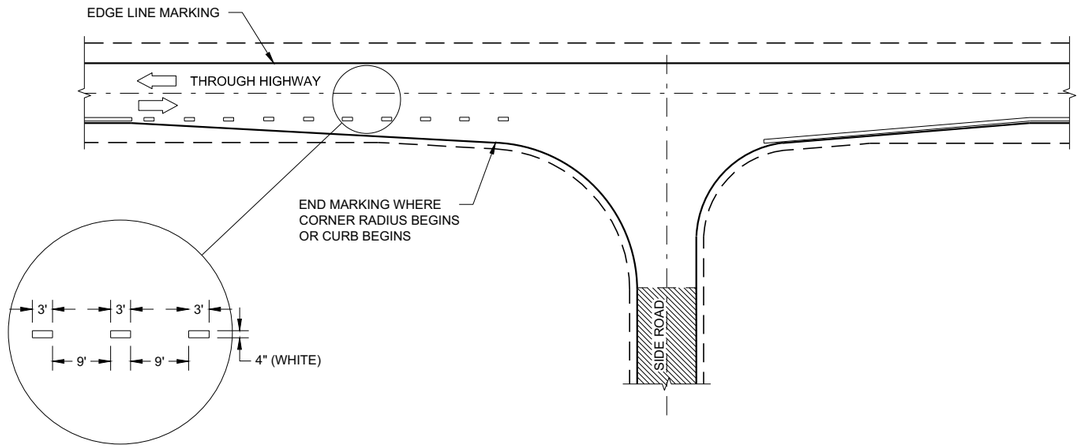
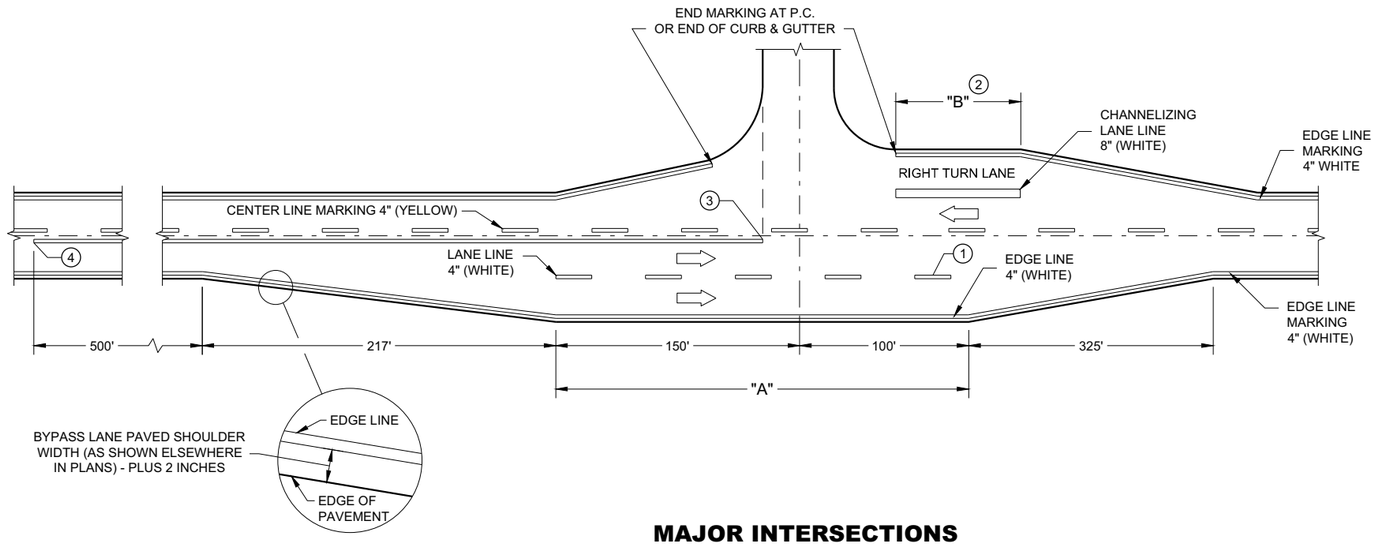
S.D.D. 15 C 34-3



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

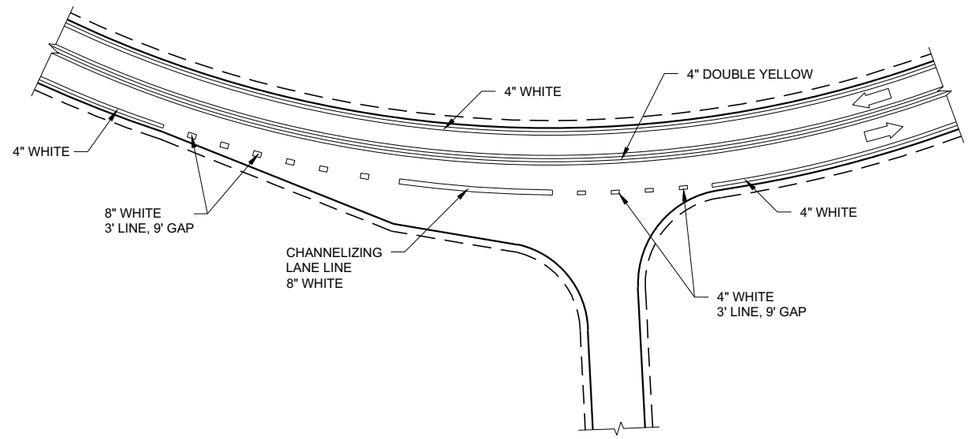
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_329

SDD 15C35 - 04a

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GENERAL NOTES

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE

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.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

(2) IF NEEDED. USE ONLY IF DESIGN SPEED IS 10 MPH LESS THAN POSTED SPEED.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- REMOVING PAVEMENT MARKING
- CONCRETE BARRIER TEMPORARY PRECAST
- DIRECTION OF TRAFFIC
- WORK AREA

OR

R2-1
48"X60"

OR

R2-1
48"X60"

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES.

LOCATED 400 FEET BEYOND THE W20- 5G SIGN.

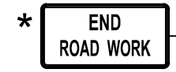
SEE SDD 15D12b FOR SIGN PLACEMENT.

(BLACK AND WHITE)

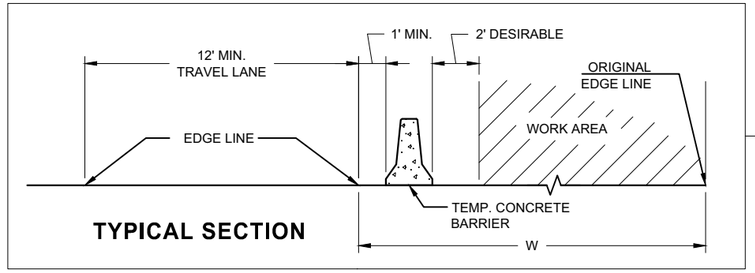
LOCATED 700 FEET BEYOND W03-5 SIGN

1000'

* INCLUDE RESUME SPEED LIMIT SIGN A MINIMUM OF 200 FEET (500 FEET DESIRABLE) AFTER END ROAD WORK SIGNS.



L, TAPER LENGTH (MPH)												
SPEED (MPH)	W, LATERAL OFFSET (FT)											
	1	2	3	4	5	6	7	8	9	10	11	12
45	45	90	135	180	225	270	315	360	405	450	495	540
50	50	100	150	200	250	300	350	400	450	500	550	600
55	55	110	165	220	275	330	385	440	495	550	605	660
60	60	120	180	240	300	360	420	480	540	600	660	720
65	65	130	195	260	325	390	455	520	585	650	715	780
70	70	140	210	280	350	420	490	560	630	700	770	840



TYPICAL SECTION

TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE EI
FHWA

PRE_330

SDD 15D03-05

SDD 15D03-05

LEGEND

SIGN ON PERMANENT SUPPORT

DELINEATOR, FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

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

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50 FOOT SPACING.

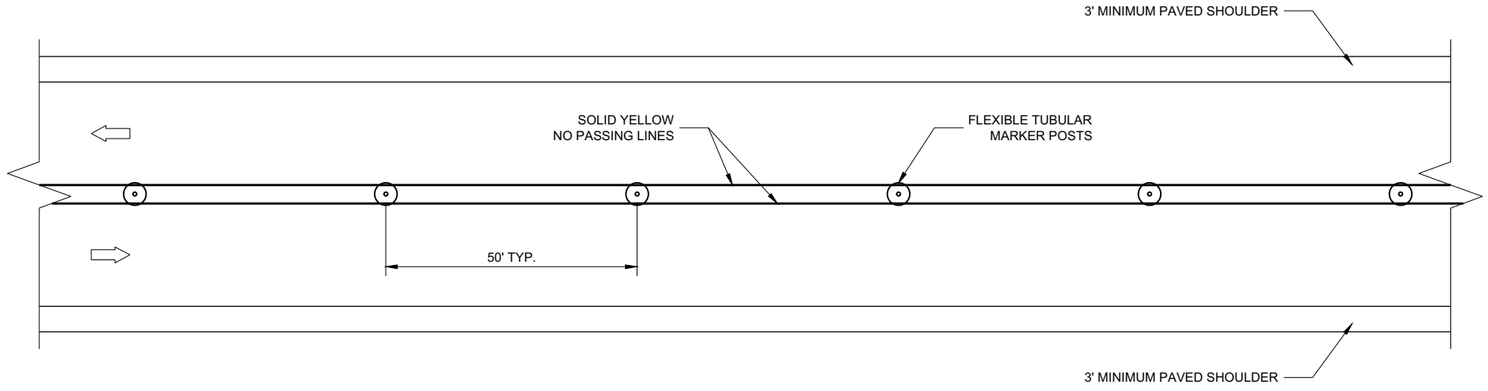
COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4 INCH DOUBLE YELLOW.

(1)

(2)

(1) THE WO6-3 AND WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND / OR 500 FEET BEYOND ANY SIDE ROAD. THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN THE SIGNS.

(2) CONVENTIONAL: 24" X 30"
FREEWAY AND EXPRESSWAY: 36" X 48"



TWO LANE, TWO WAY OPERATION

TRAFFIC CONTROL
TWO LANE TWO WAY
OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
STATE TRAFFIC ENGIN PRE_331

FHWA

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SDD 15D06 - 04

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SDD 15D06 - 04

GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

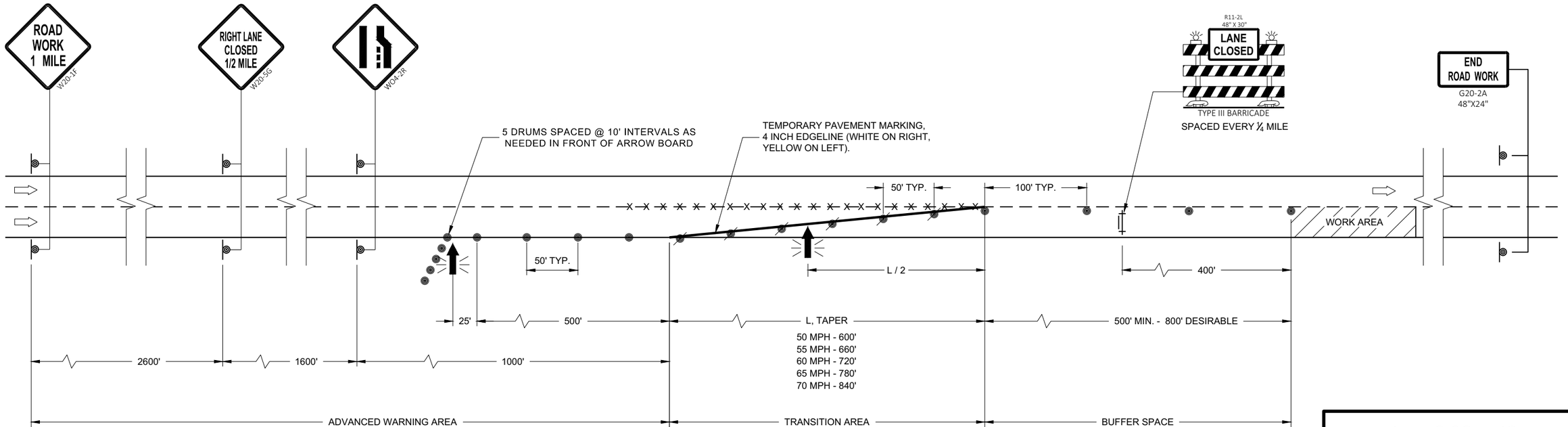
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE EN

FHWA

PRE_332

6

SDD 15D12 - 09a

6

SDD 15D12 - 09a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

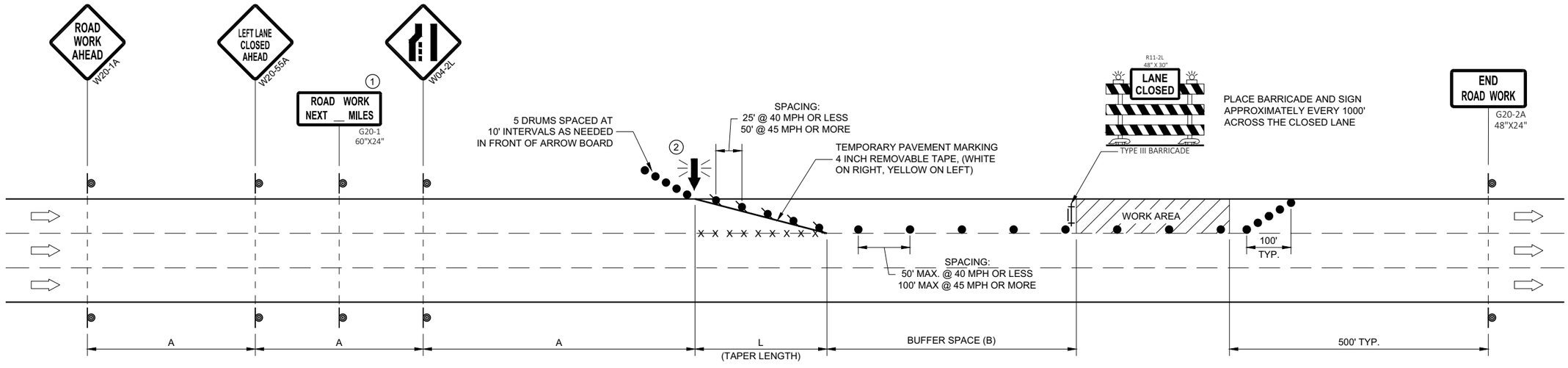
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

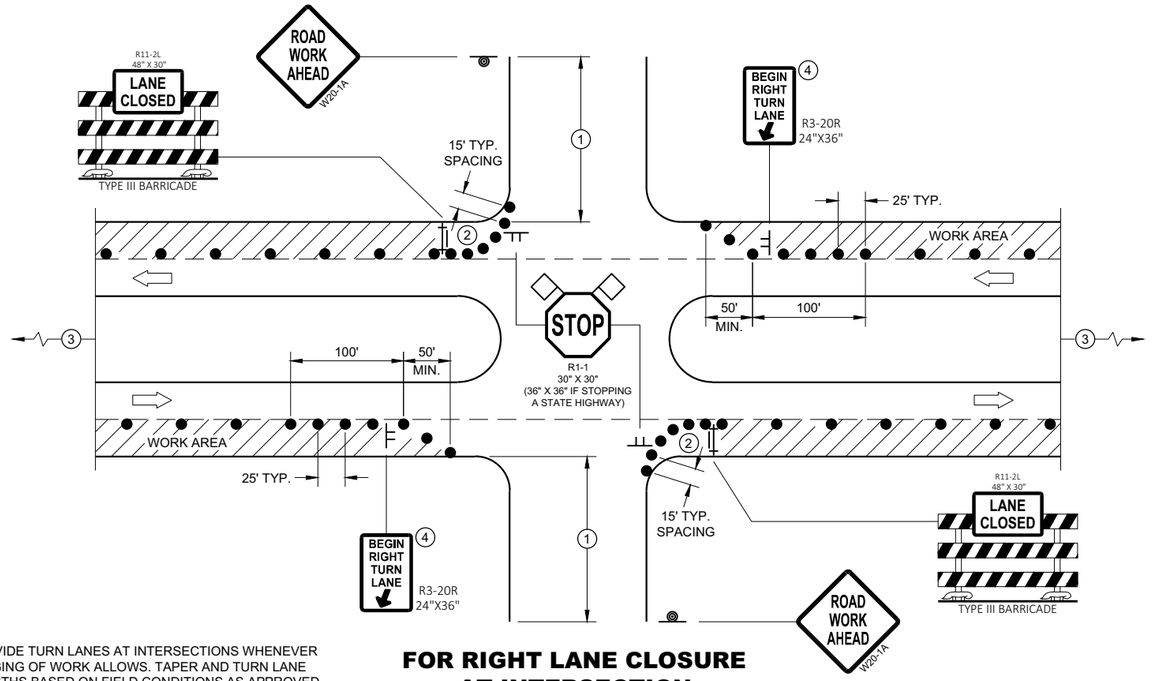
TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE
/S/ Andrew Heidtke
STATEWIDE WORK ZONE SAFETY ENG
PRE_333
FHWA

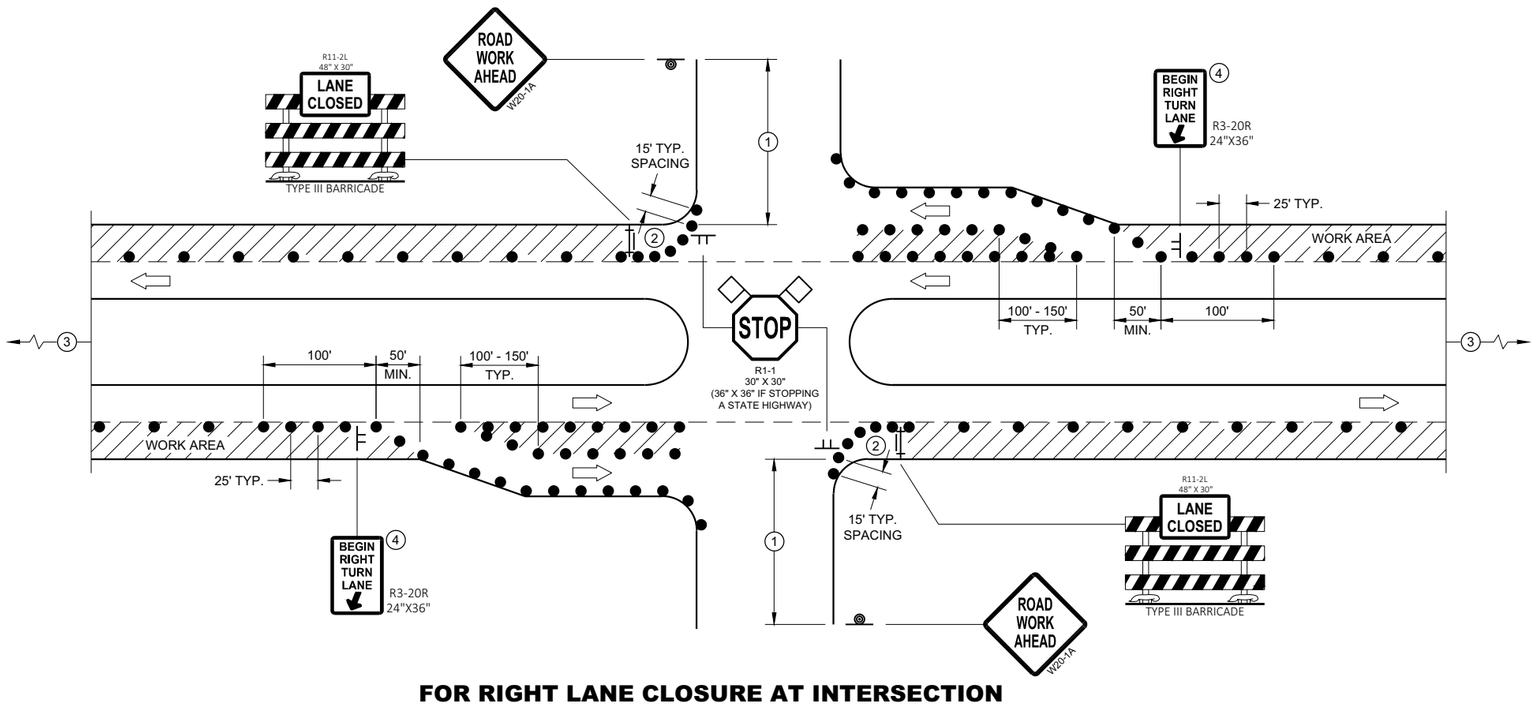
6

SDD15D20 - 05a



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

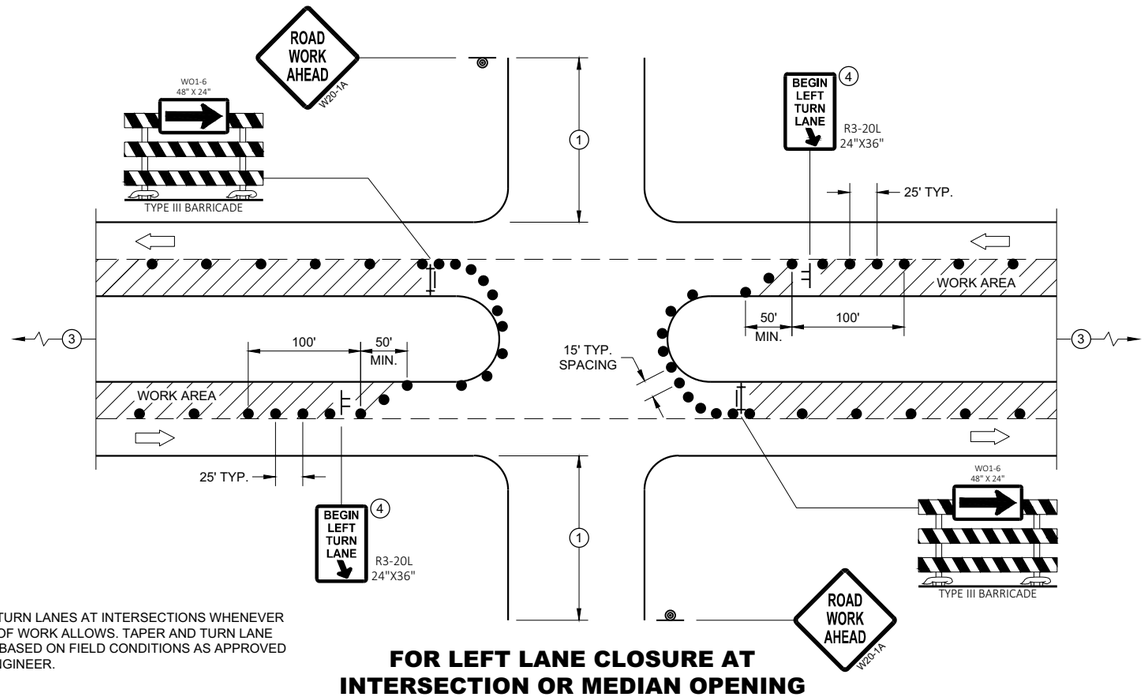
(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_334



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

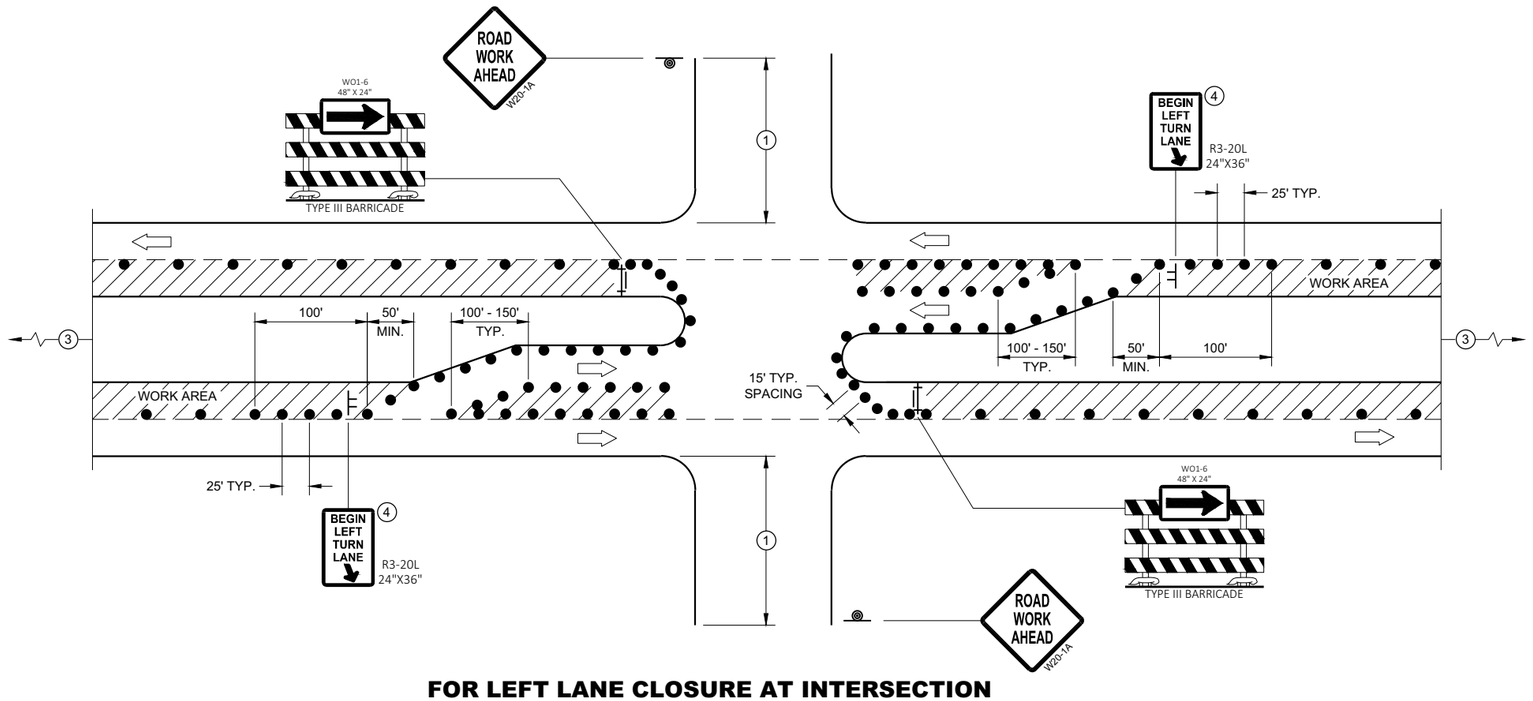
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE EN

PRE_335

FHWA

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SDD 15D21 - 07b

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SDD 15D21 - 07b

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

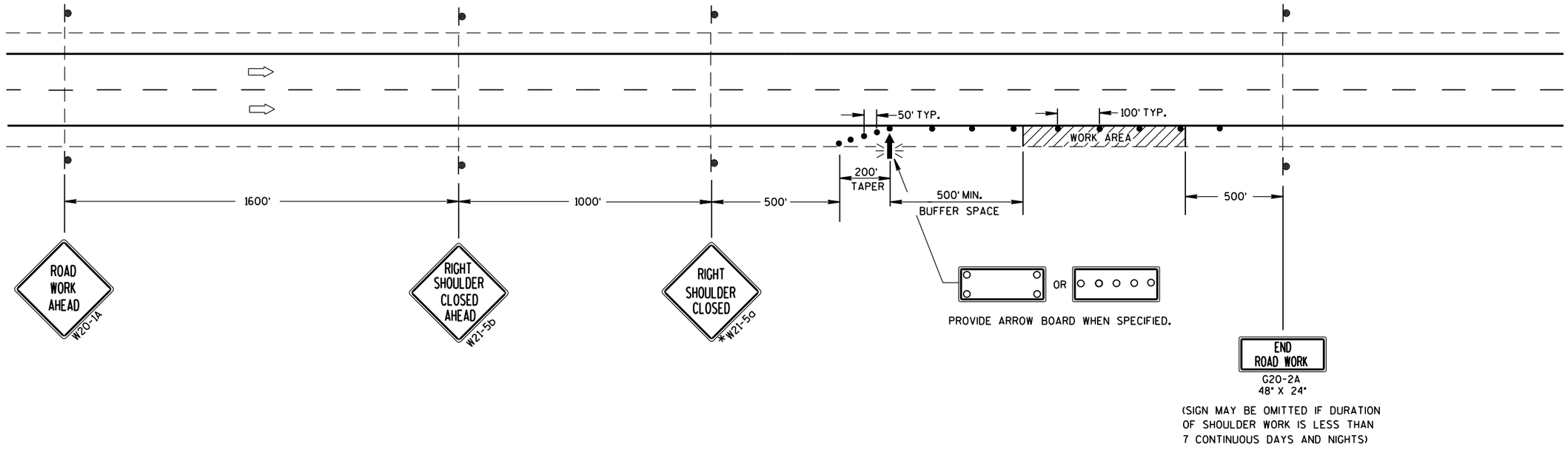
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WOR SAFETY

FHWA

PRE_336 C

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S.D.D. 15 D 27-3

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S.D.D. 15 D 27-3

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

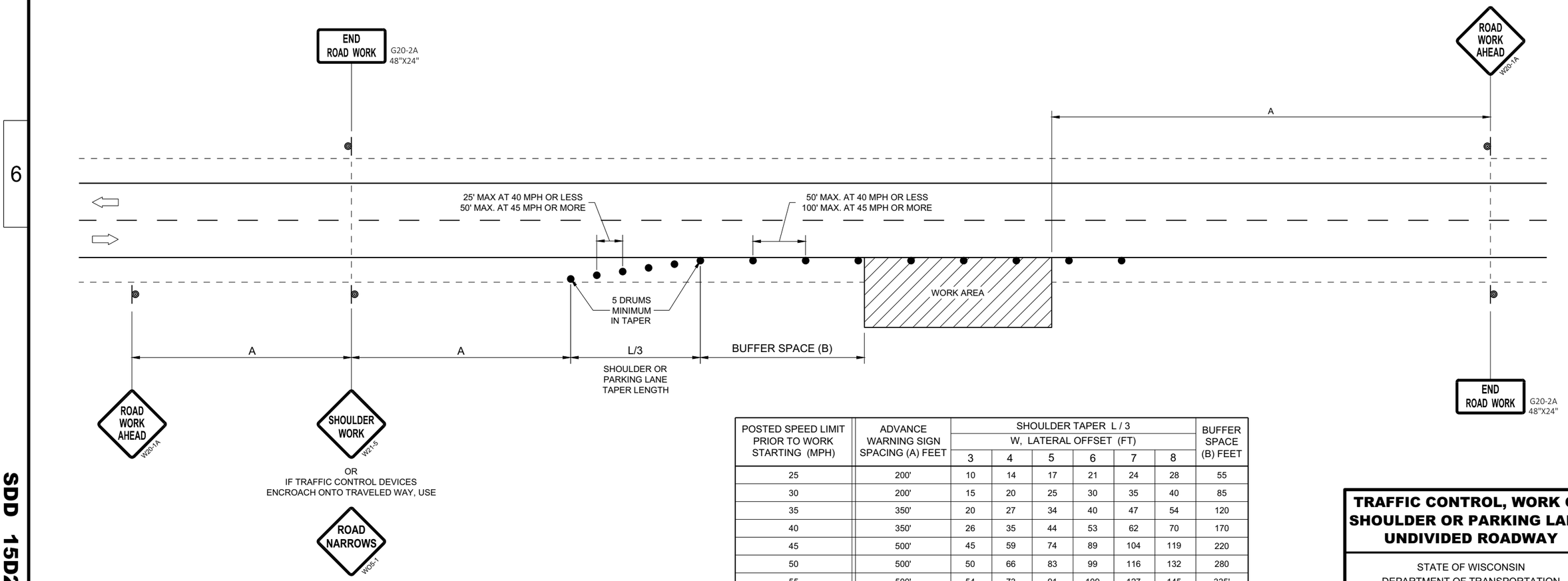
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

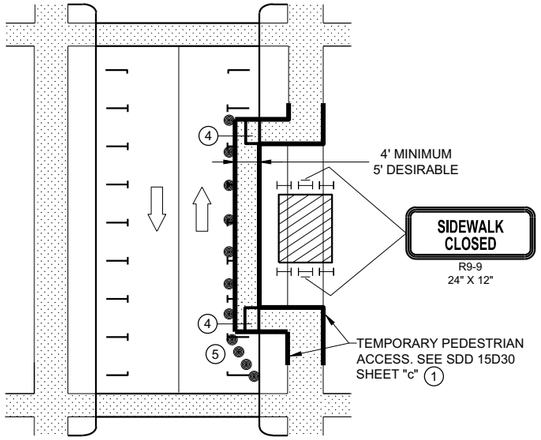
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK Z SAFETY ENG

FHWA

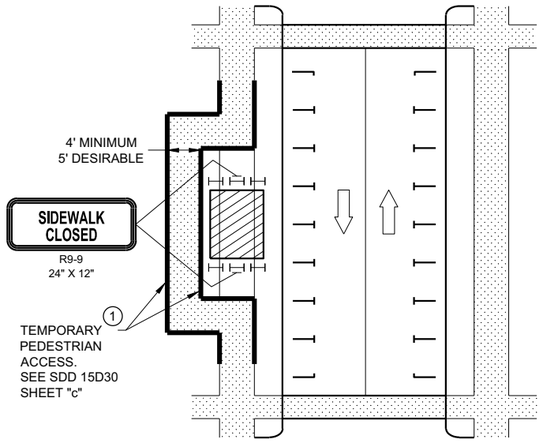
PRE_337

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

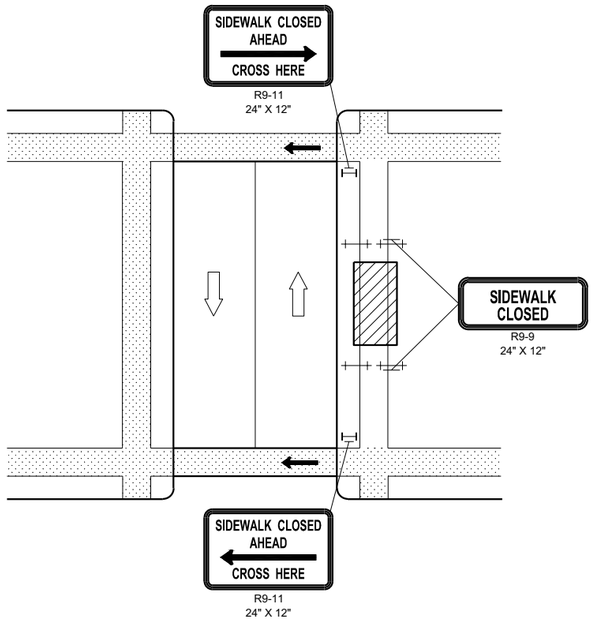


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

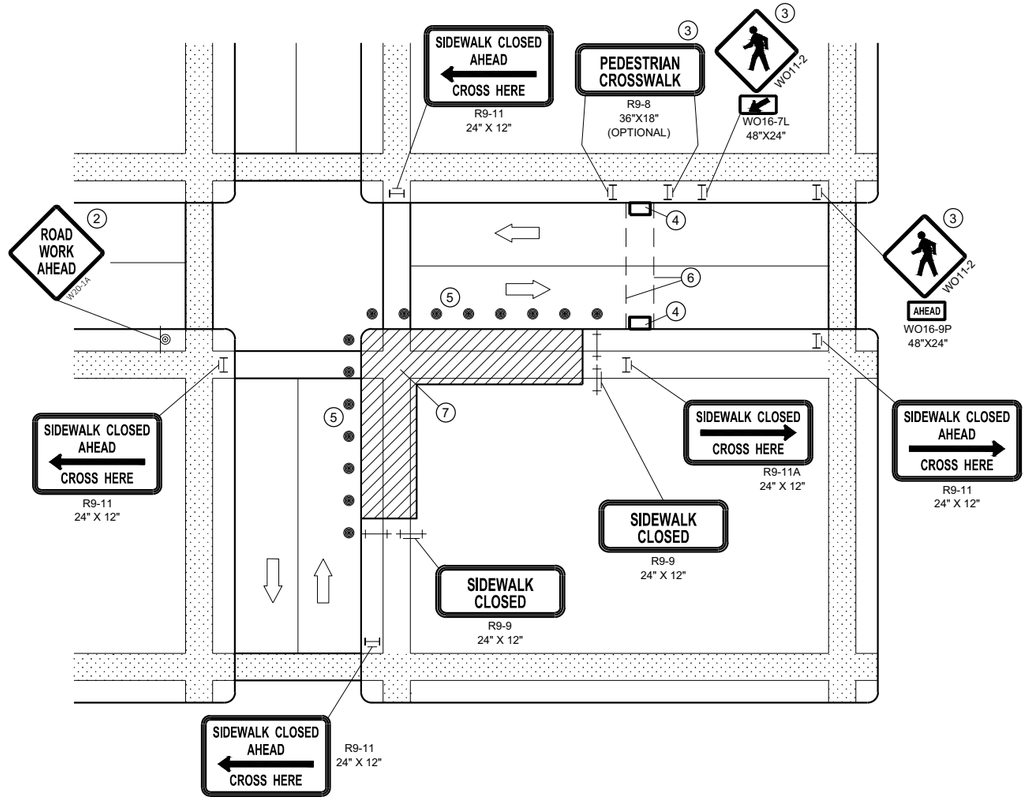
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

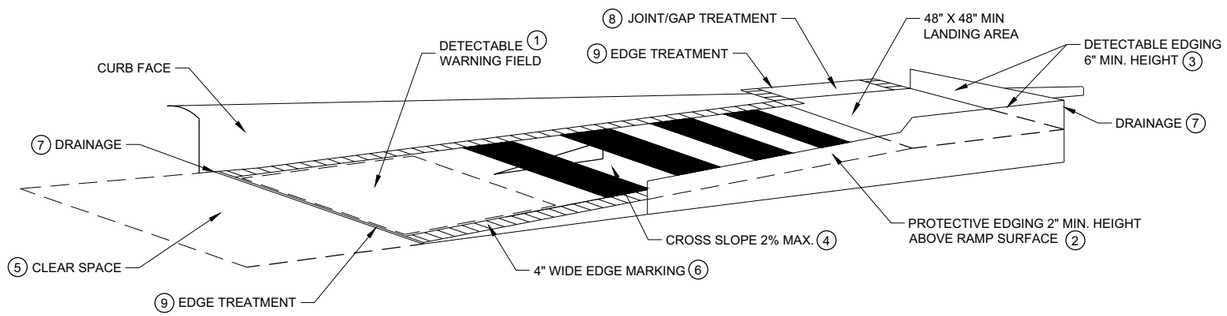
1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

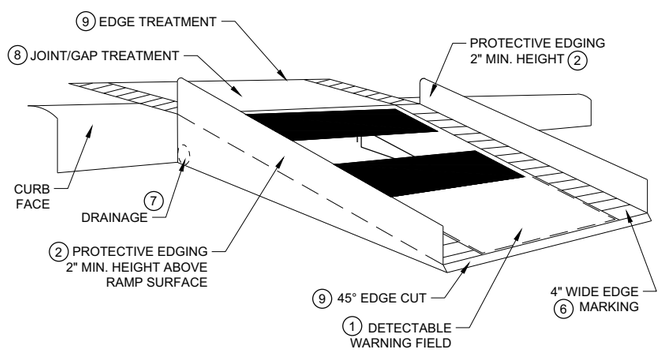
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

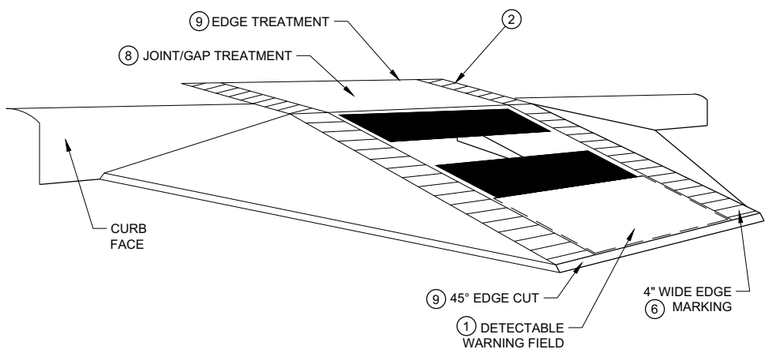
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_338



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

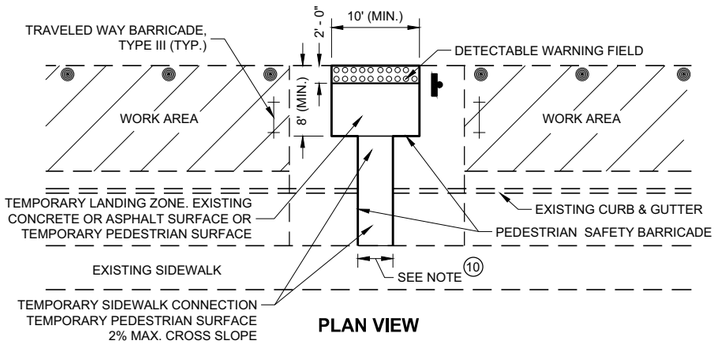
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

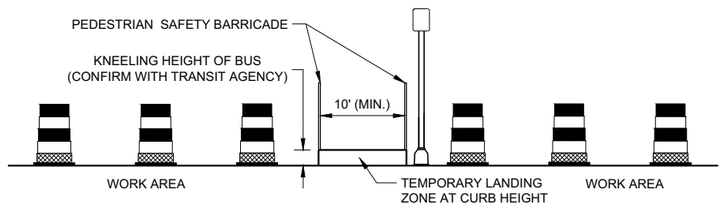
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
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. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_339

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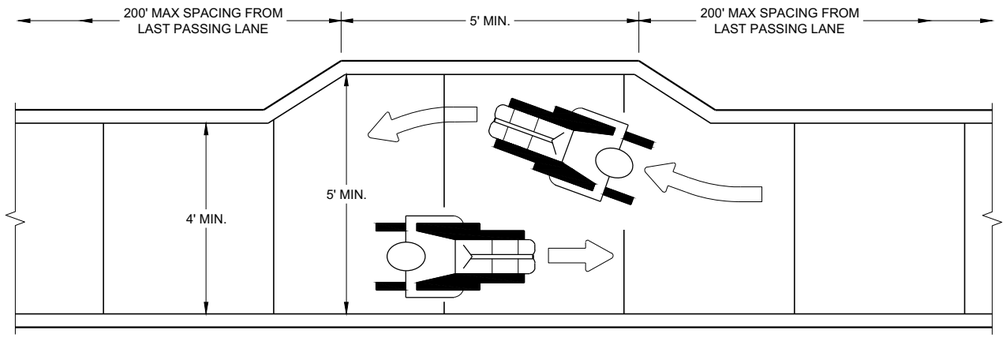
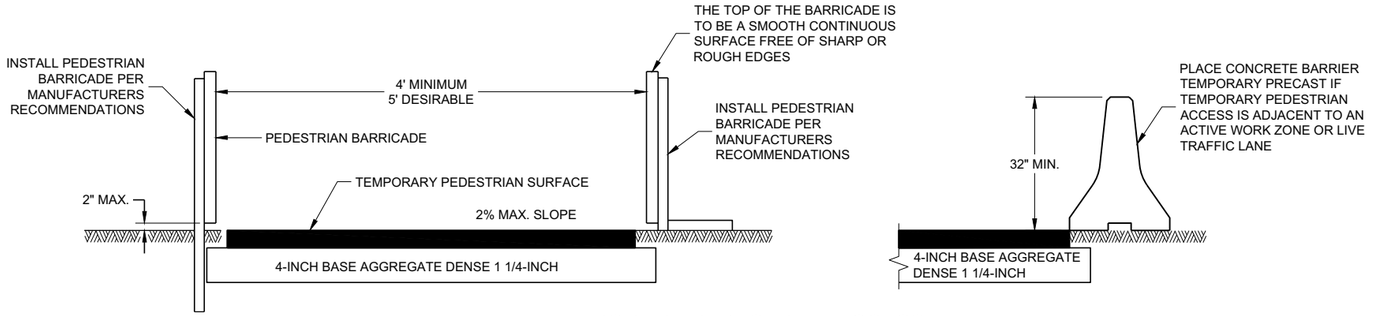
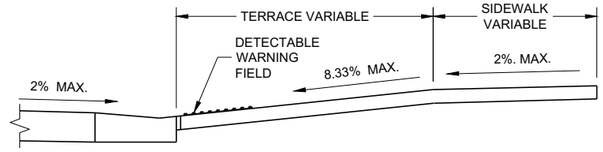
SDD 15D30 - 06b



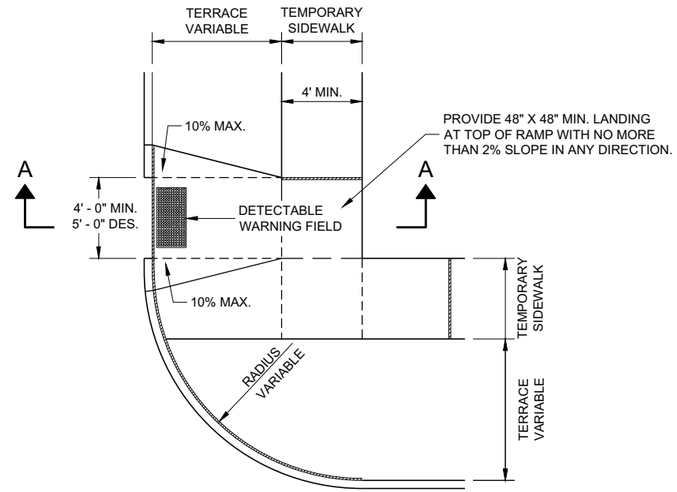
NARROW SIDEWALK PASSING DETAIL



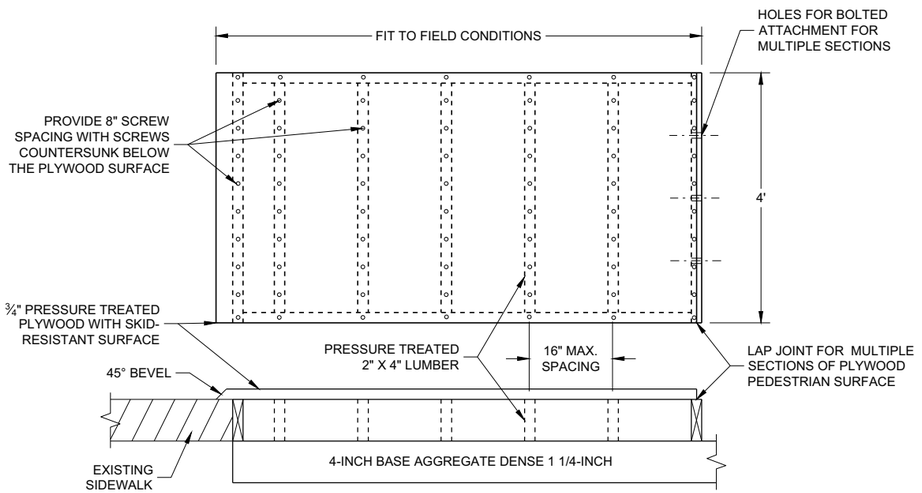
TEMPORARY PEDESTRIAN ACCESS



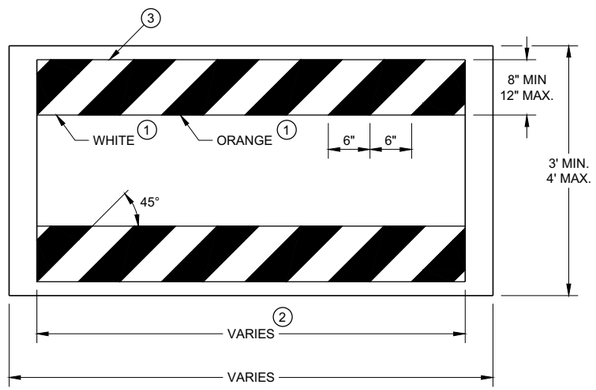
SECTION A - A



PLAN VIEW
TEMPORARY TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

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.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

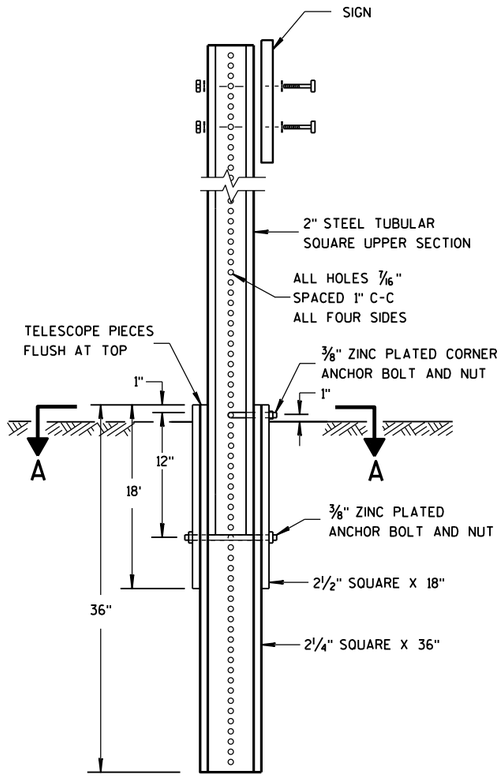
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

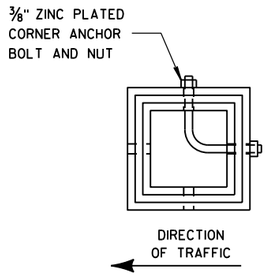
/S/ Andrew Heidtke
WORK ZONE E

PRE_340

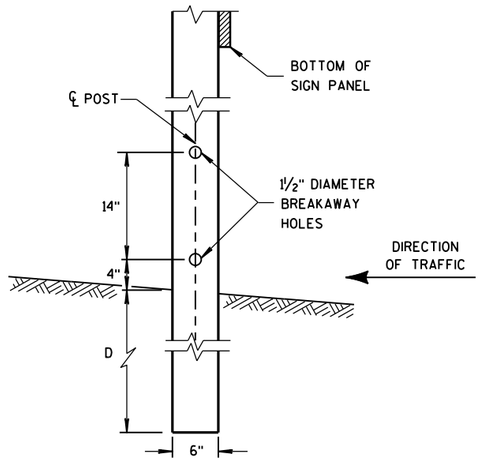
FHWA



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



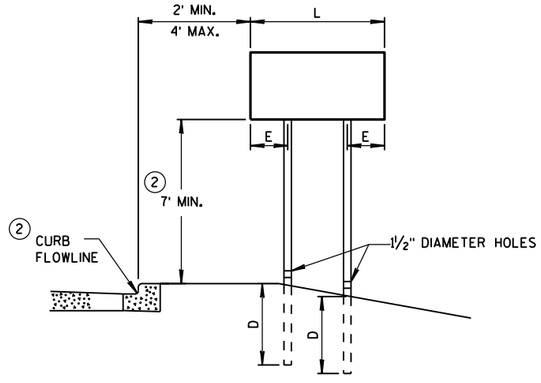
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

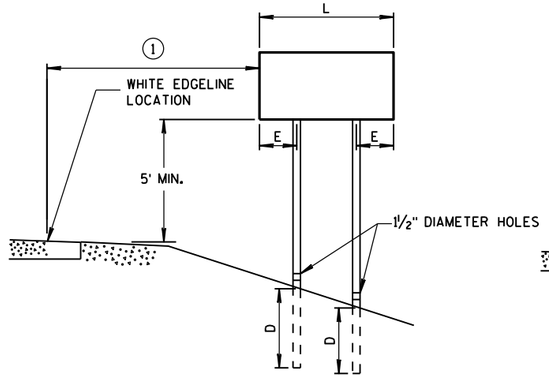
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

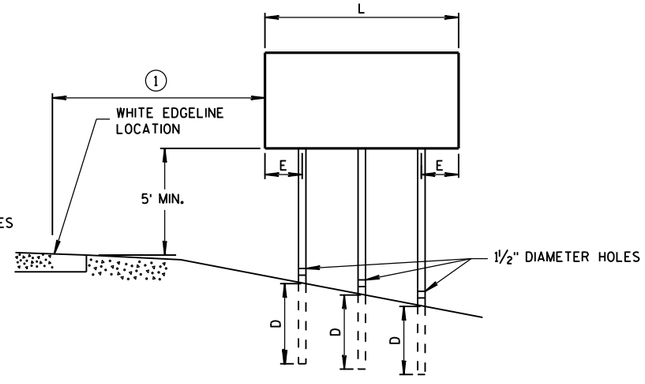
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRAN PRE_341

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S.D.D. 15 D 38-2a

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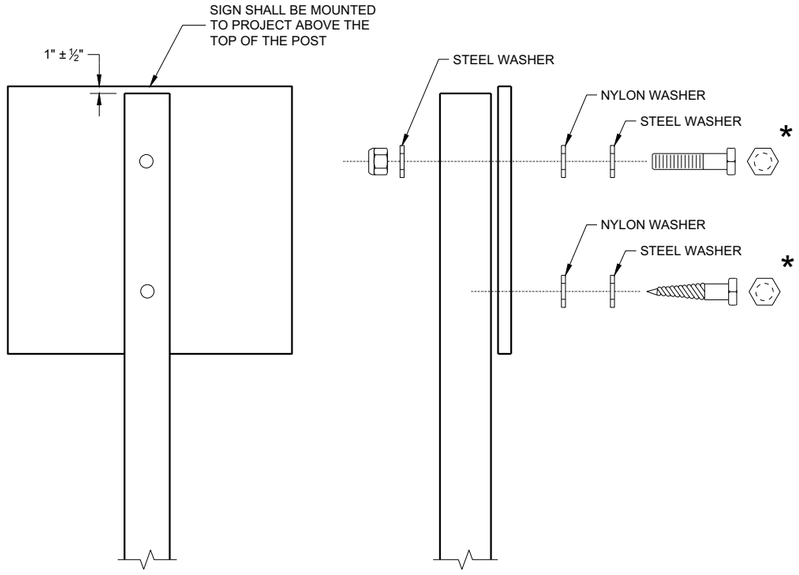
S.D.D. 15 D 38-2a



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.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

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SDD 15D38 - 02b

SDD15D38 - 02b

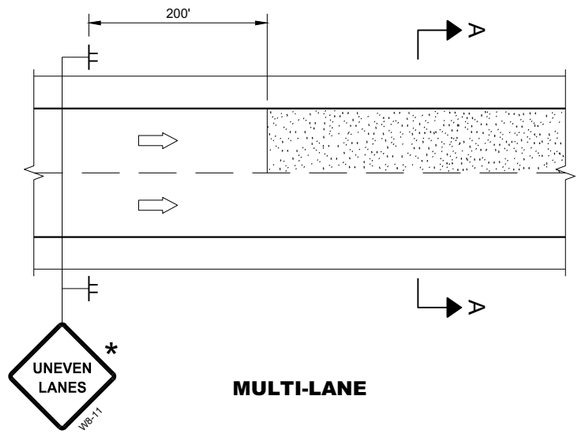
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

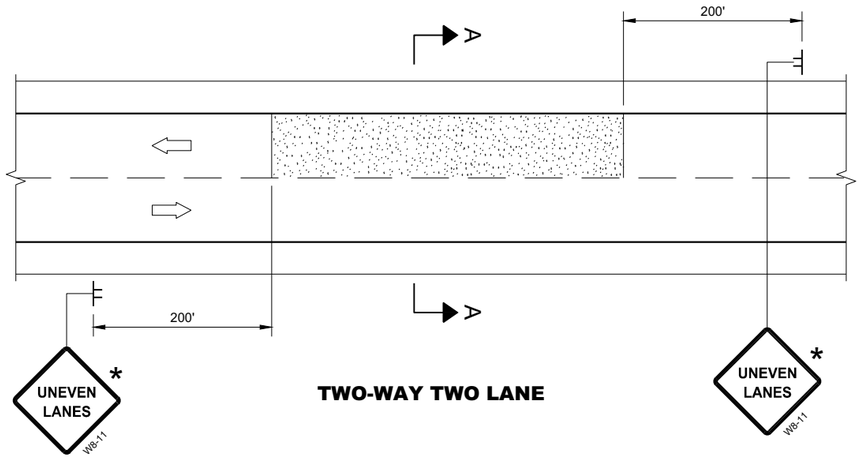
APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE E

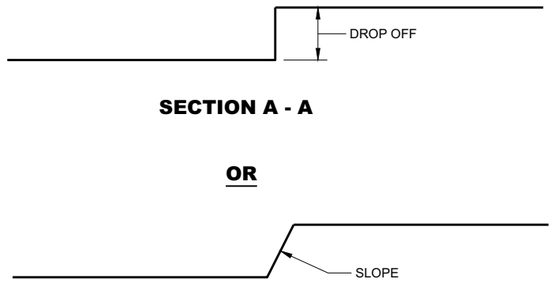
FHWA



MULTI-LANE

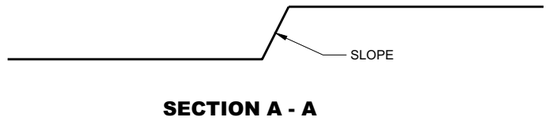


TWO-WAY TWO LANE

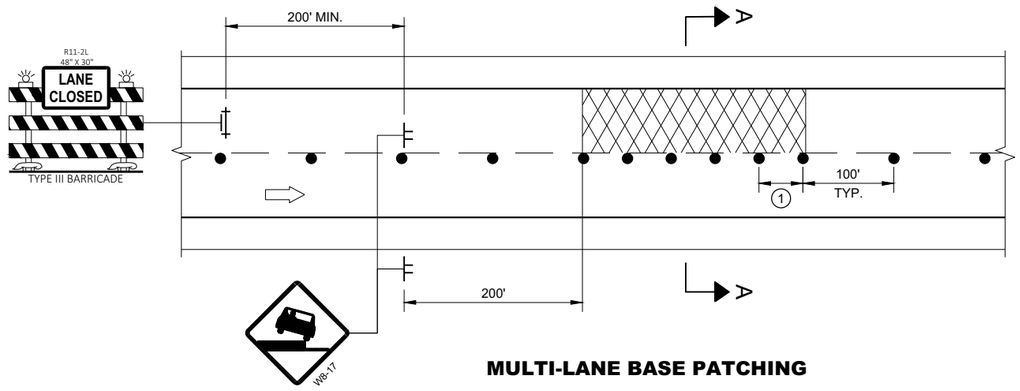


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

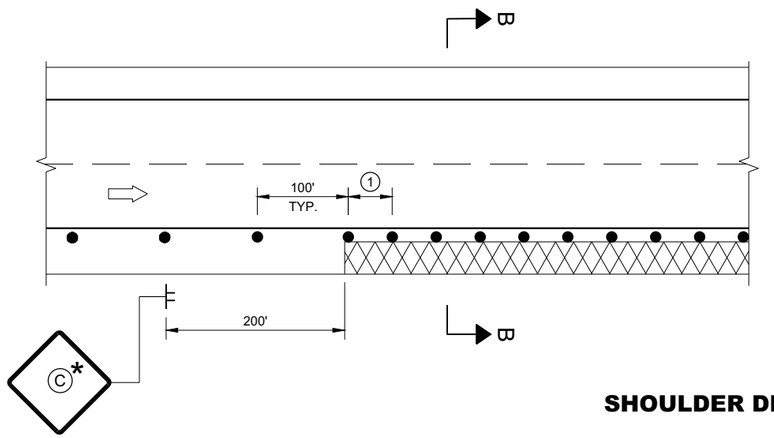
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

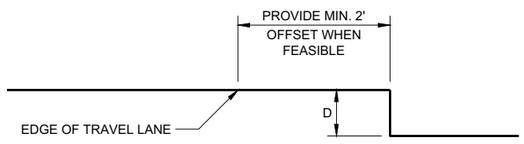
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE EN

FHWA

PRE_343

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SDD 15D39 - 02

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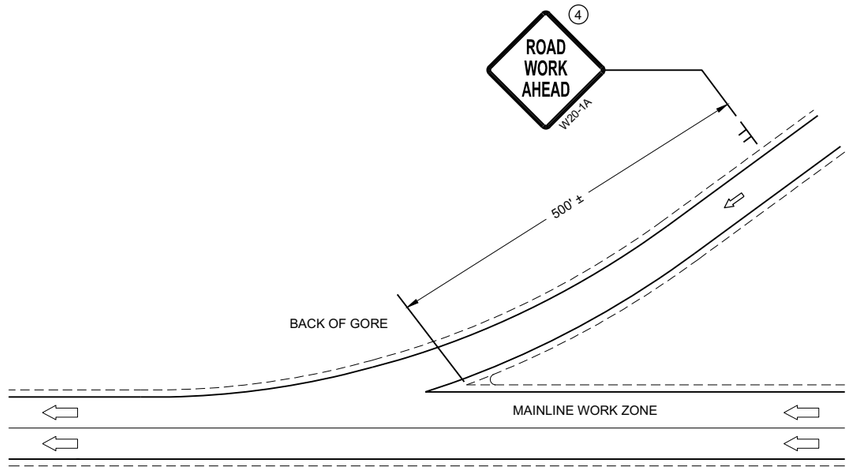
SDD 15D39 - 02

LEGEND

- V1 MARKING VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE
- ● TRAFFIC CONTROL DRUM
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- WORK AREA



GENERAL NOTES

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

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

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

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

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

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

USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

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

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

(2) DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.

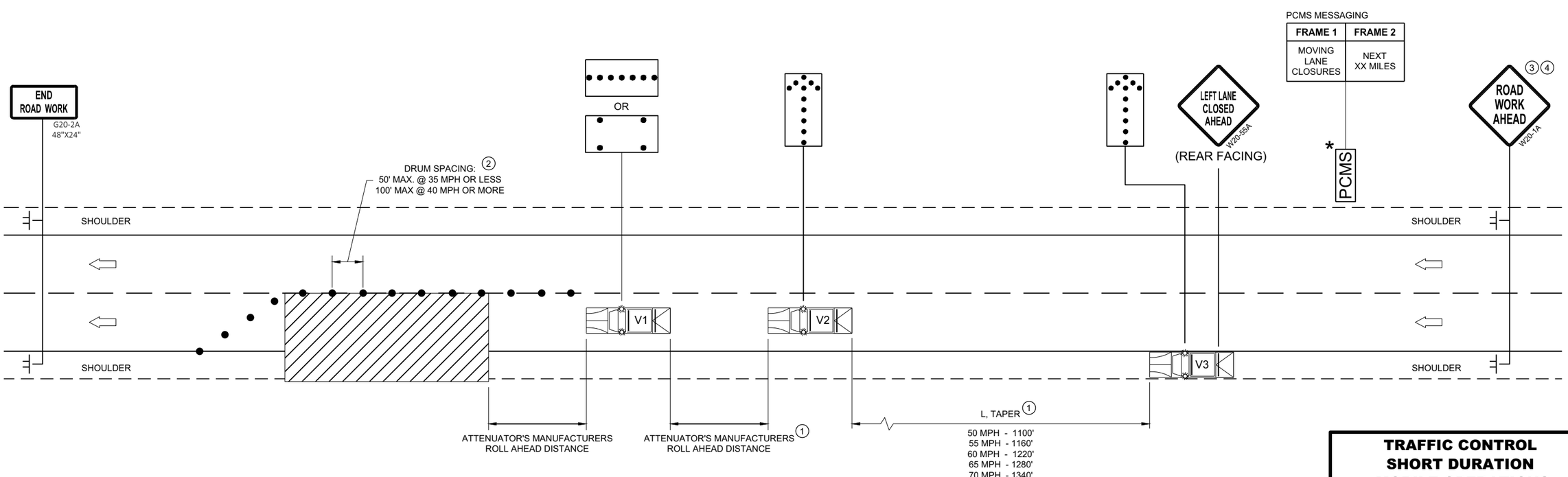
(3) WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.

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

* PCMS OPTIONAL

PCMS MESSAGING

FRAME 1	FRAME 2
MOVING LANE CLOSURES	NEXT XX MILES



TRAFFIC CONTROL SHORT DURATION MOBILE OPERATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE

/S/ Andrew Heidtke
WORK ZONE EN

FHWA

PRE_344

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SDD 15D43 - 01

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SDD 15D43 - 01

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

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

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

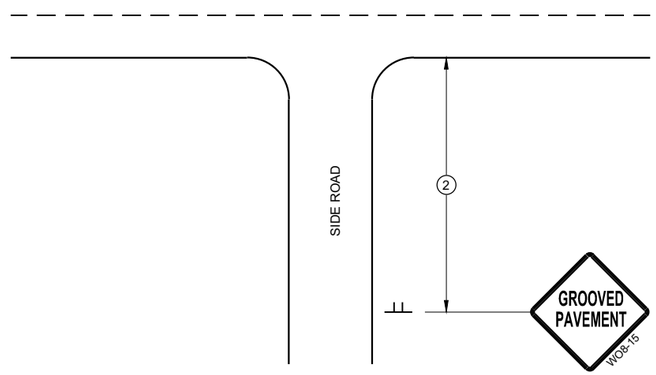
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

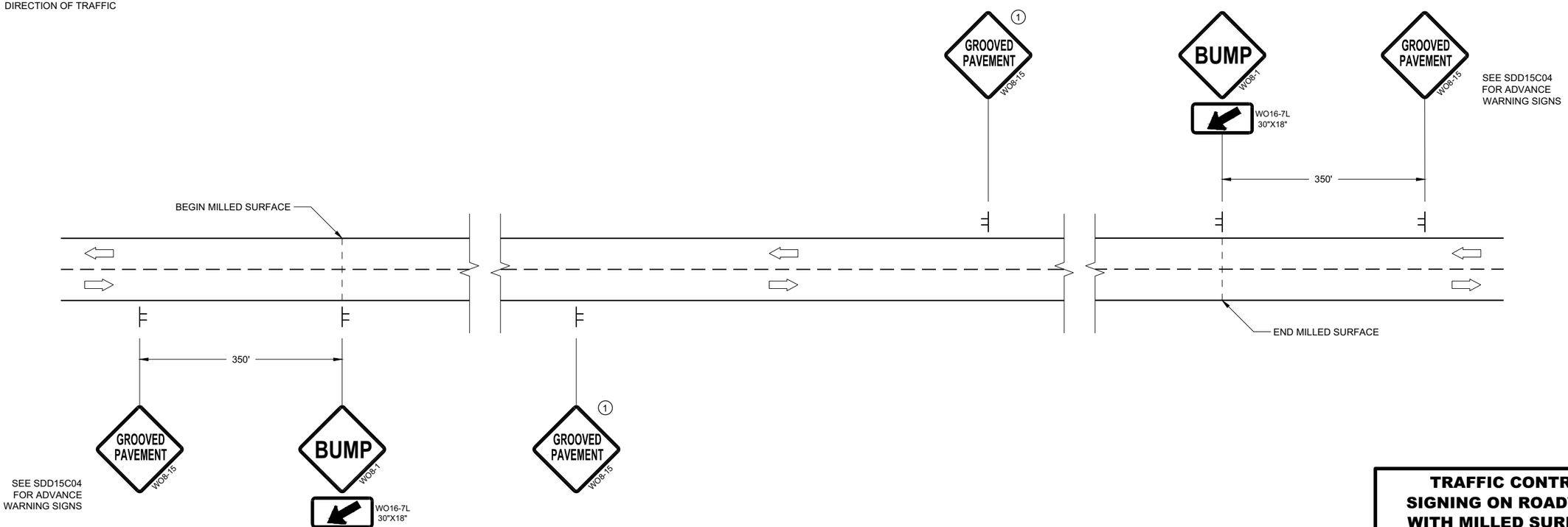
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE E

FHWA

PRE_345

LEGEND

V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

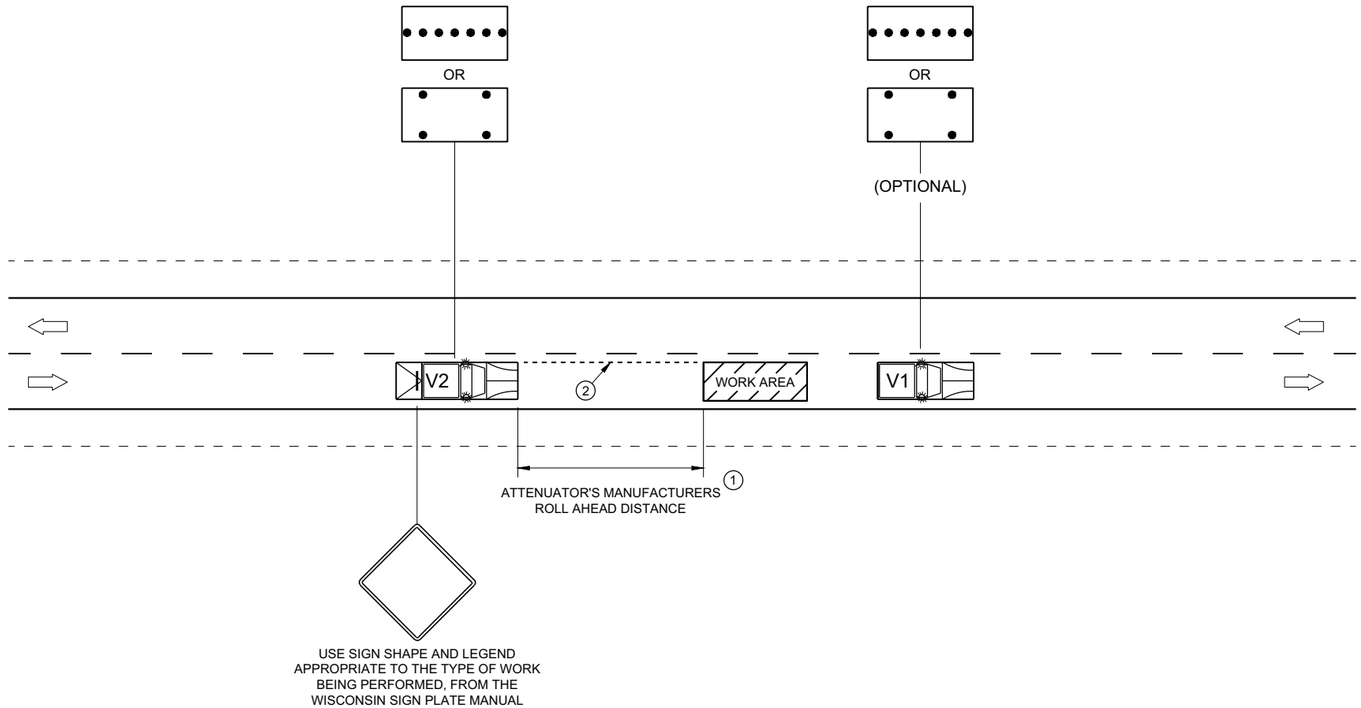
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

(1) DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE SAFETY ENG
PRE_346
FHWA

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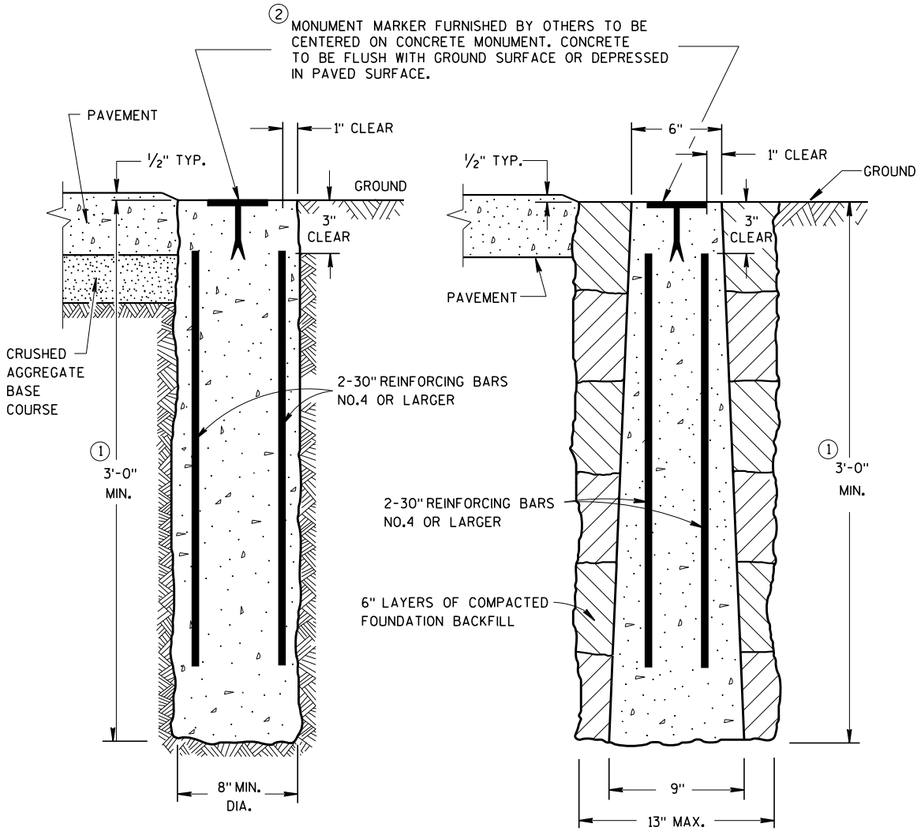
SDD 15D51 - 01

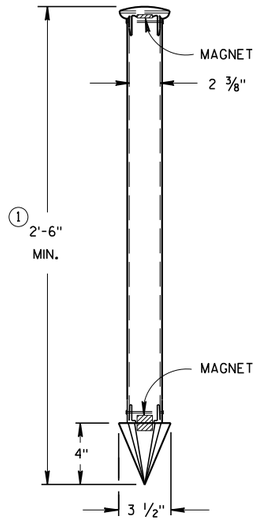


CAST-IN-PLACE

PRECAST

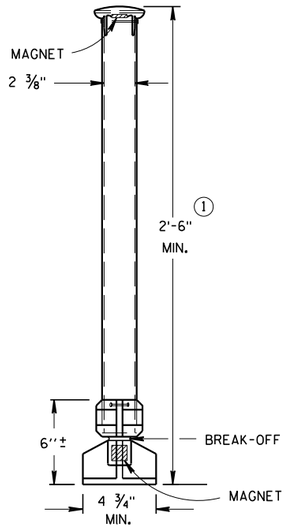
CONCRETE MONUMENTS

TYPE A



TYPE C

DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

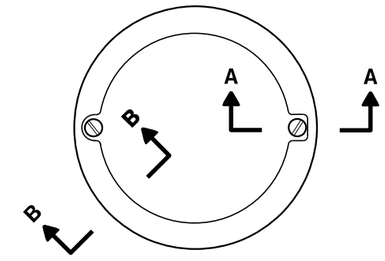
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

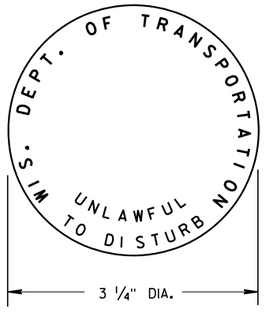
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

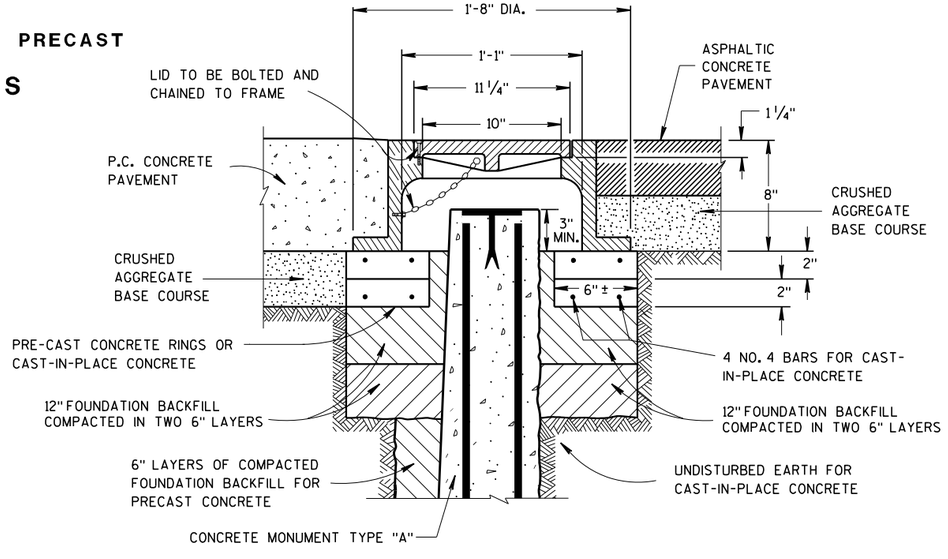


TOP VIEW



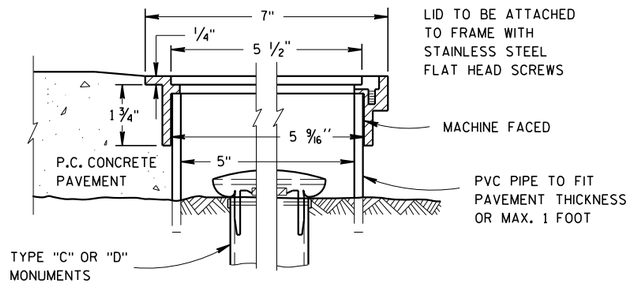
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C", & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

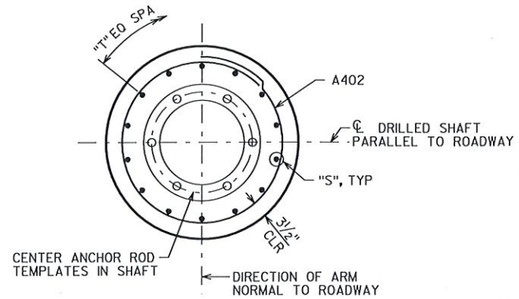
APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING ENGINEER
FHWA

PRE_347

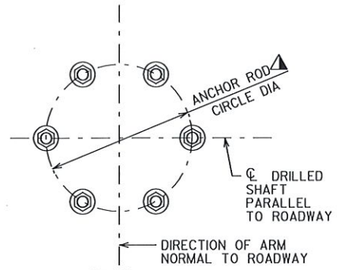
6
S.D.D. 16 A 1-7

FOUNDATION & REINFORCING DATA

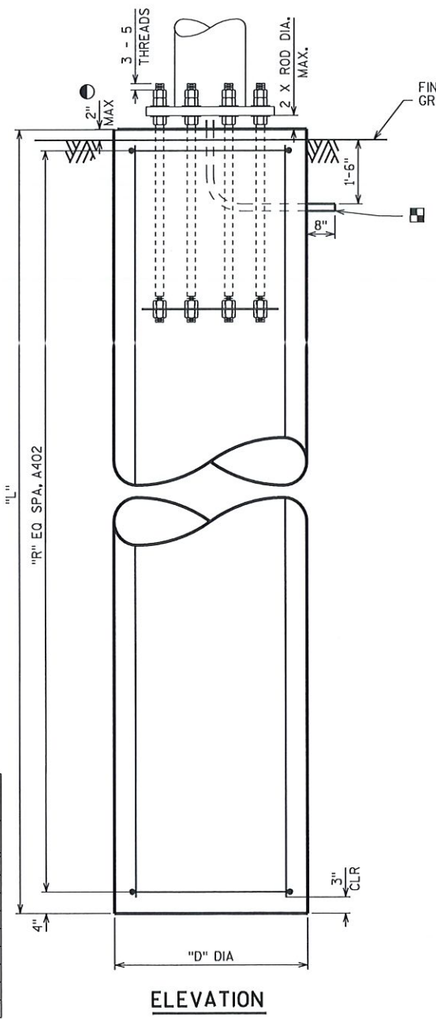
STANDARD FOUNDATION TYPE	SHAFT VARIABLES					
	"D"	"L"	"R"	"S"	"T"	"BC" MAX
MFI	2'-0"	12'-0"	12	A801	6	12"
MFII	2'-6"	13'-0"	13	A801	10	17"
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	17"
TCI	3'-0"	18'-0"	18	A801	14	22"
TFII	3'-0"	20'-0"	20	A801	14	22"
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	28"
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	28"
TCIII	4'-0"	23'-0"	23	A1001	14	34"
TCIV	4'-0"	28'-0"	28	A1001	14	34"



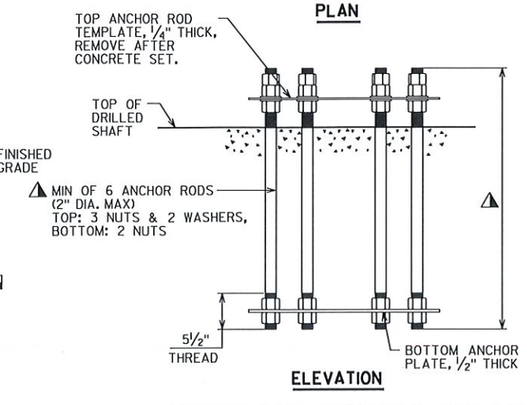
PLAN



PLAN



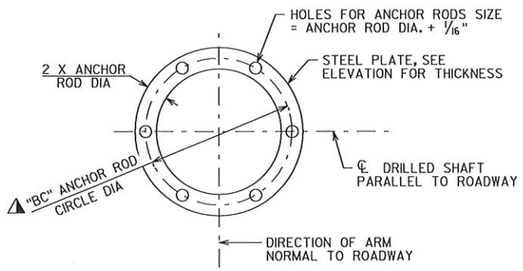
ELEVATION



ELEVATION

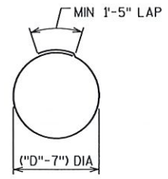
ANCHOR ROD ASSEMBLY DETAILS

⚠ ANCHOR ROD NUMBER, DIAMETER, LENGTH & ORIENTATION AS SHOWN ON FABRICATION DRAWING.



ANCHOR PLATE/TOP TEMPLATE

PLAN



A402

STATE PROJECT NUMBER

STANDARD

NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BILL OF BARS - STANDARD FOUNDATIONS

STANDARD FOUNDATION MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-7"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-7"			DRILLED SHAFT - VERTICAL
A402		14	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	16'-7"			DRILLED SHAFT - VERTICAL
A402		18	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	19'-7"			DRILLED SHAFT - VERTICAL
A402		21	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	12'-2"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-7"			DRILLED SHAFT - VERTICAL
A402		29	12'-2"	X		DRILLED SHAFT - HORIZONTAL

ESTIMATED QUANTITIES - FOUNDATIONS

STANDARD FOUNDATION TYPE	CONCRETE MASONRY (CY)	STEEL REINFORCEMENT HS (LBS)	FOUNDATION DRILLING (LF)				
			24" DIA.	30" DIA.	36" DIA.	42" DIA.	48" DIA.
MFI	2	240	12				
MFII	3	410		13			
MCI/MCII/TFI	4	540		17			
TCI	5	780			18		
TFII	6	860			20		
MCIII/TCII/TFIII	7	970				18	
MCIV/TFIV	9	1,250				23	
TCIII	11	1,560					23
TCIV	13	1,900					28

✳✳ QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS

NOTES

CENTER ANCHOR ROD ASSEMBLY ON DRILLED SHAFT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

◐ FOR OVERHEAD SIGN STRUCTURES THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE SHAFT SHALL BE POURED FLUSH WITH THE FINISHED GRADE.

▩ 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JULY 2020

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

SHEET IV OF IV

PRE_348

SCALE = 1.67

8

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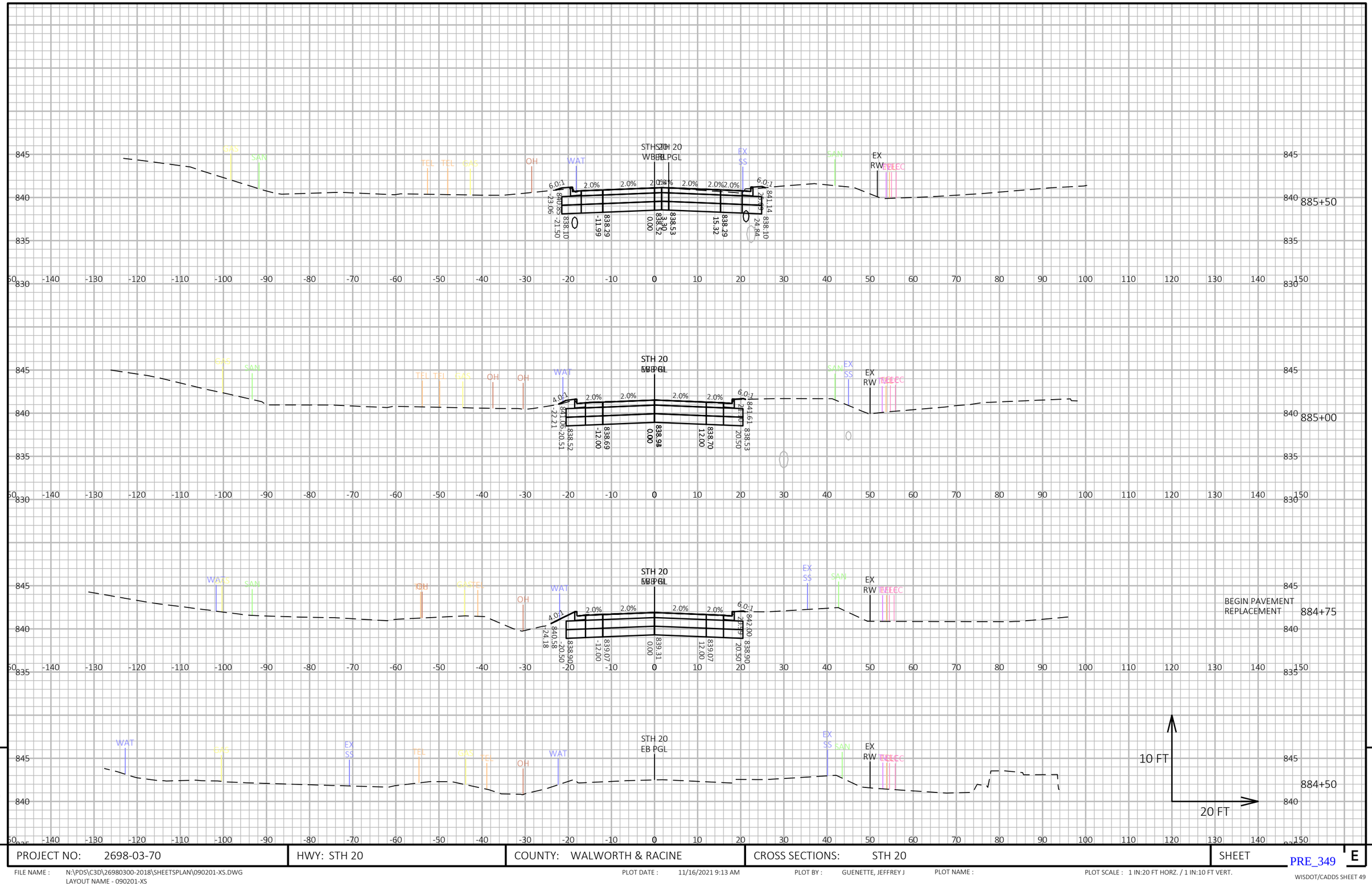

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-XS

PLOT DATE : 11/16/2021 9:13 AM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_349

WISDOT/CADDS SHEET 49

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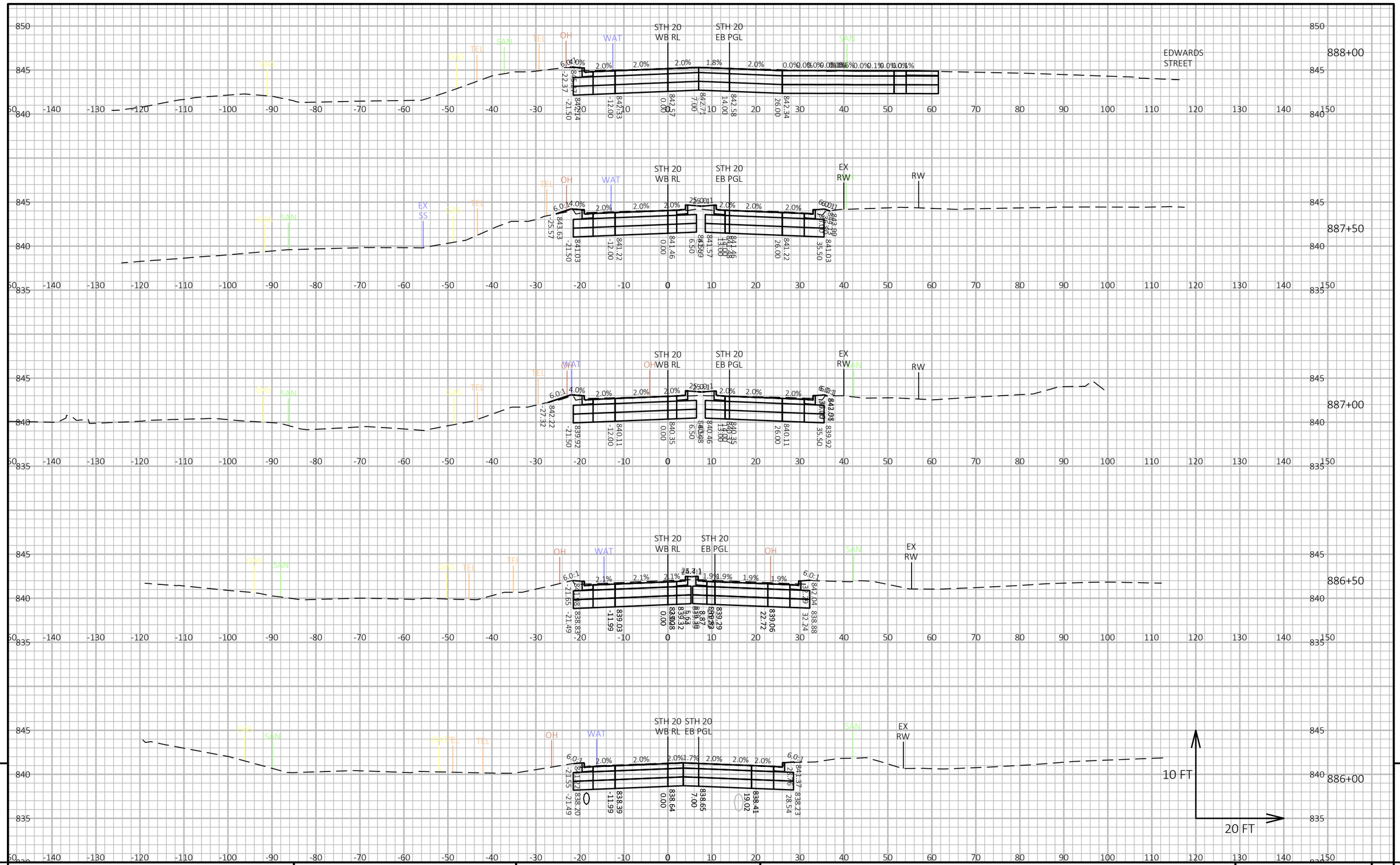

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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_350

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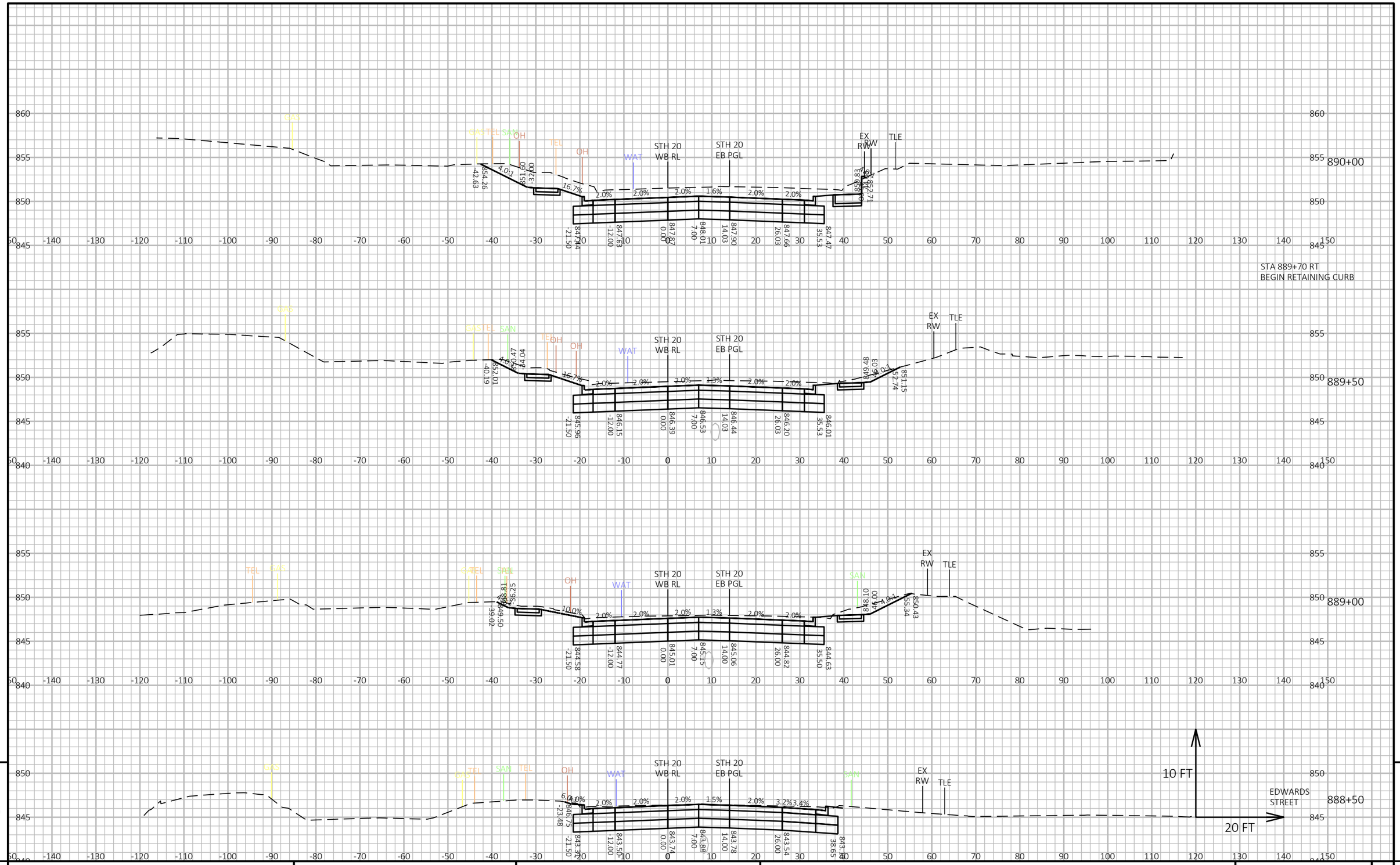
LAYOUT NAME - 090202-XS

PLOT DATE : 11/16/2021 9:13 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_351

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090203-XS

PLOT DATE : 11/16/2021 9:14 AM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STA 892+40 RT
END RETAINING CURB

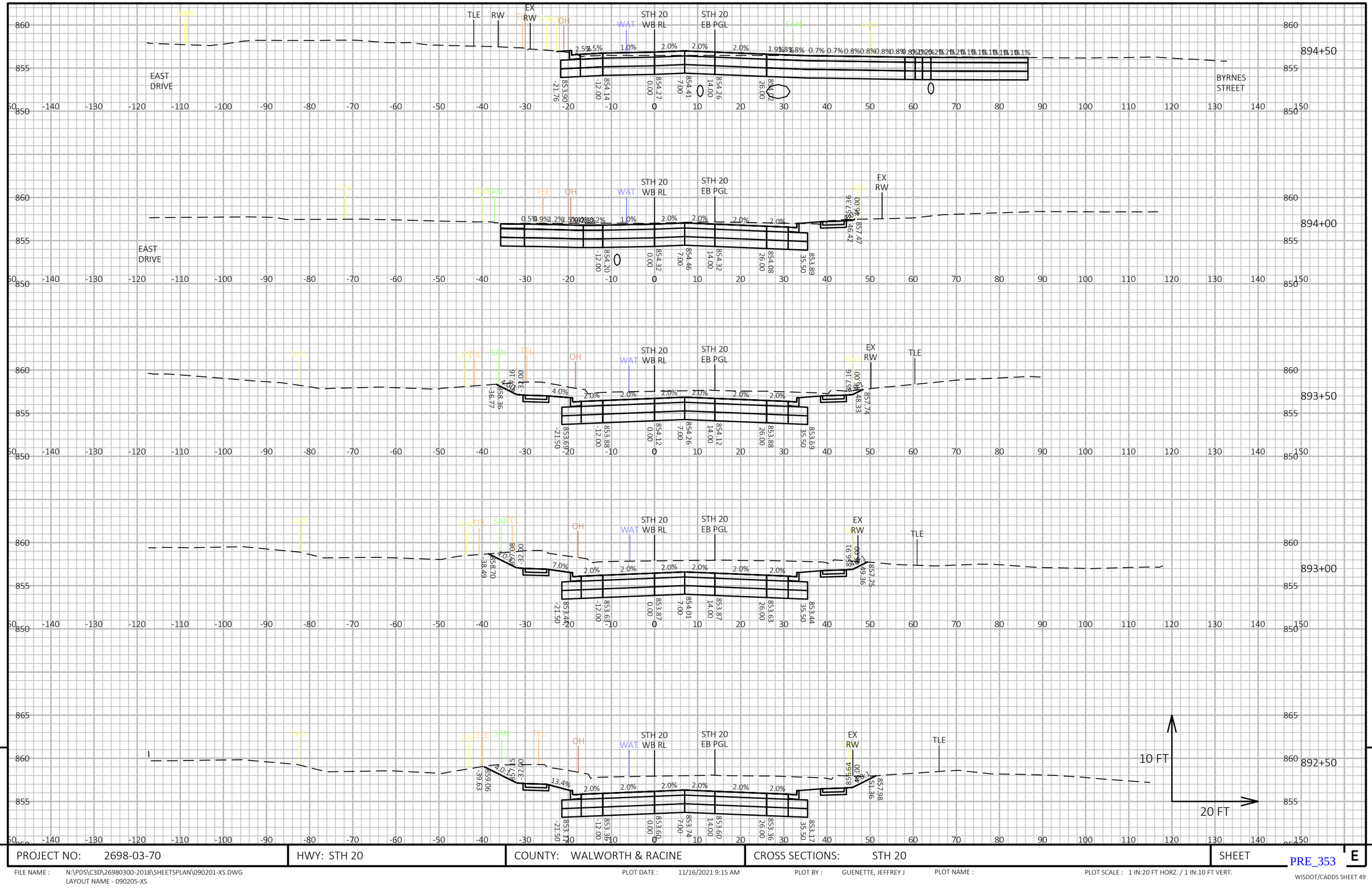
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090204-XS

PLOT DATE : 11/16/2021 9:14 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_352

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090205-XS

PLOT DATE : 11/16/2021 9:15 AM

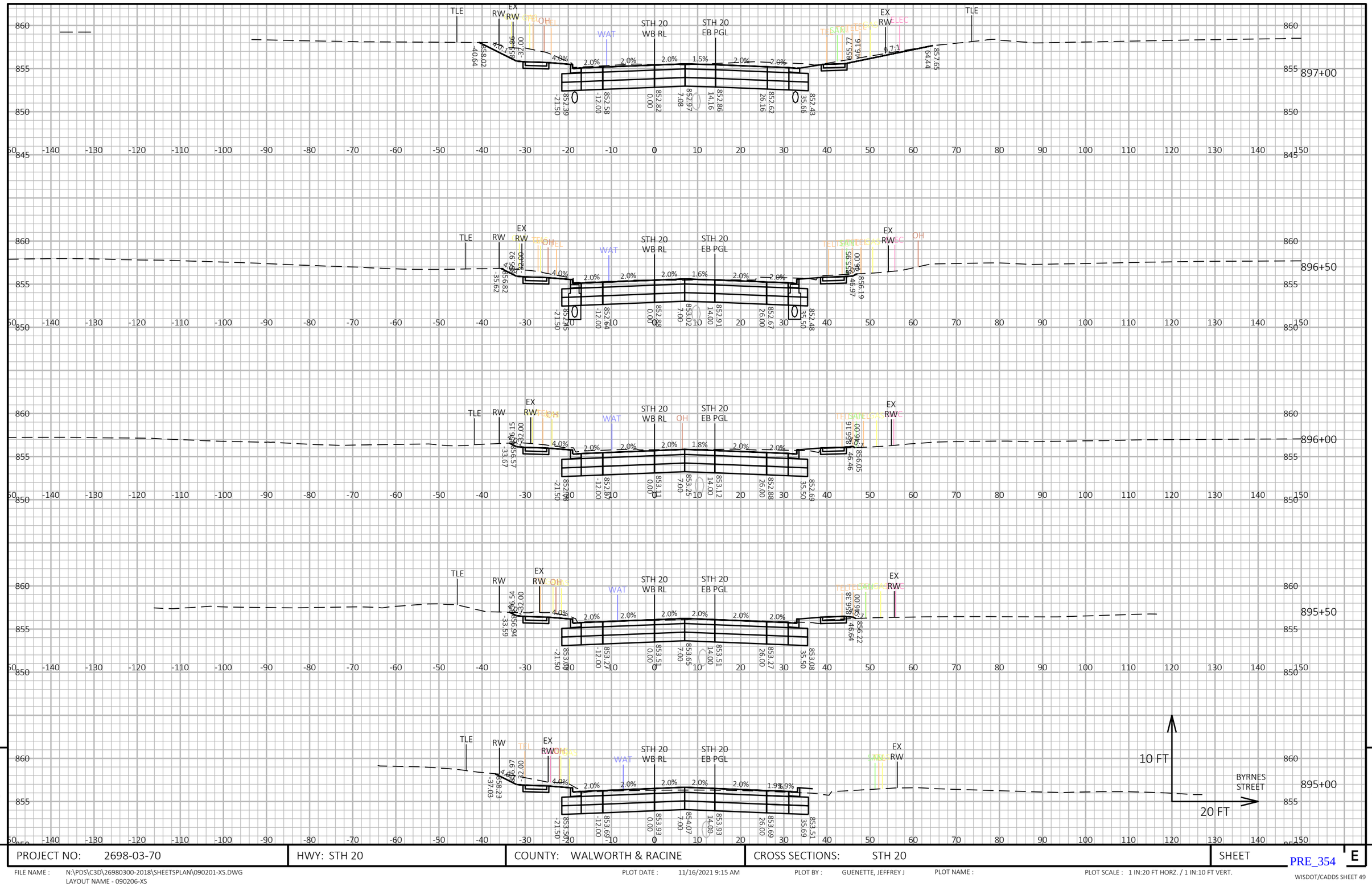
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_353

WISDOT/CADDS SHEET 49



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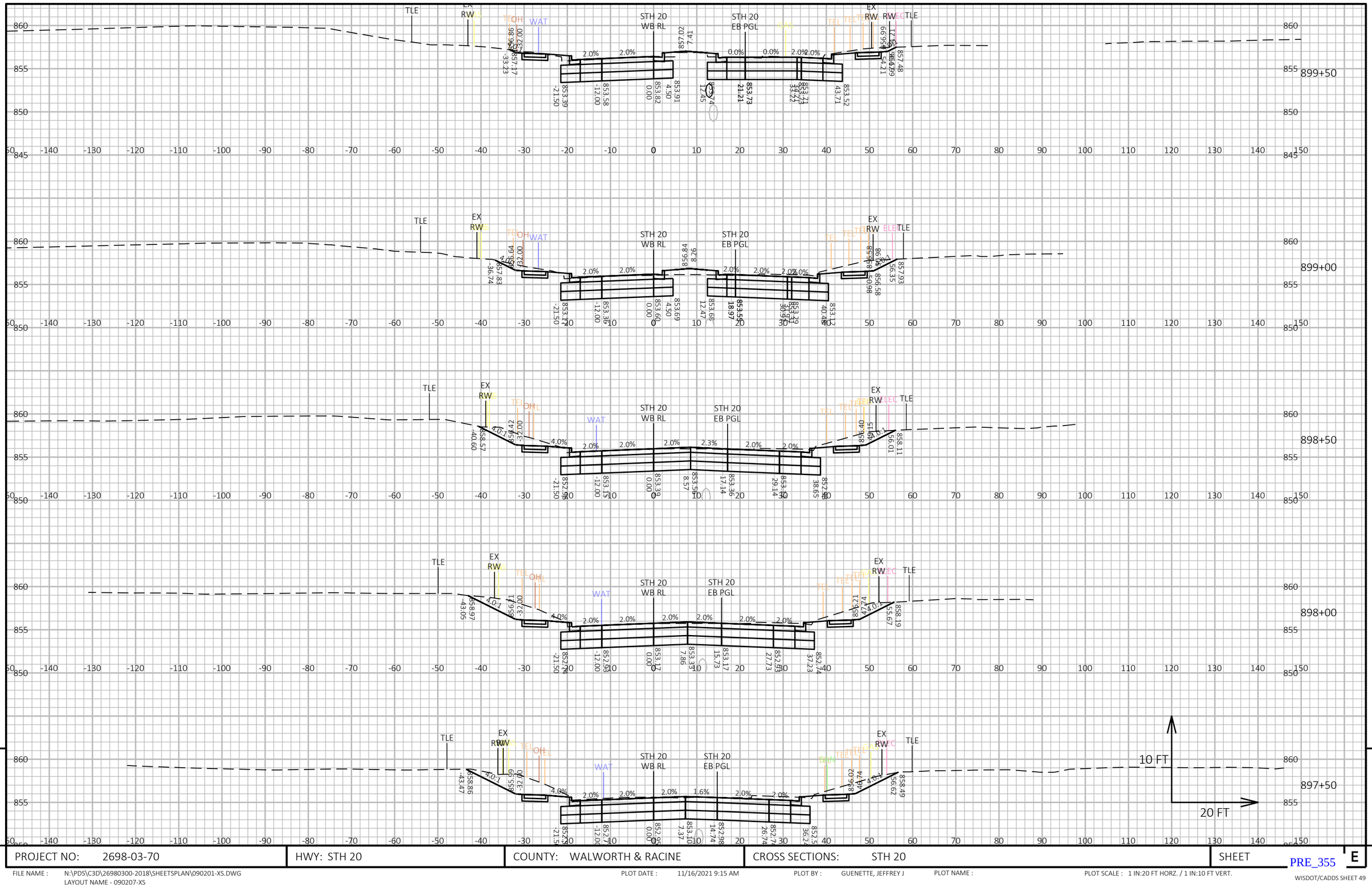
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_354

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090206-XS

PLOT DATE : 11/16/2021 9:15 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_355

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090207-XS

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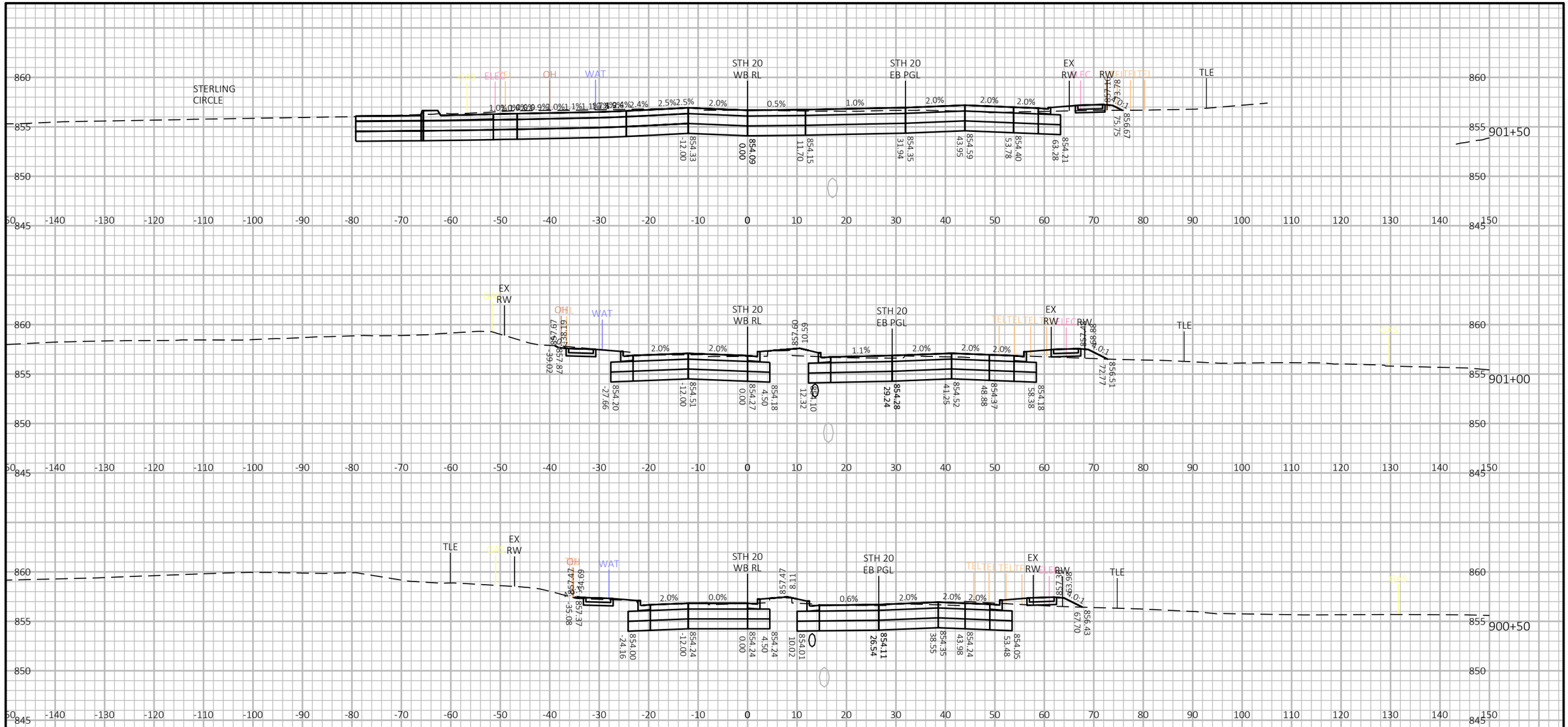
WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090208-XS

PLOT DATE : 11/16/2021 9:16 AM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_356

SHEET E

WISDOT/CADDS SHEET 49

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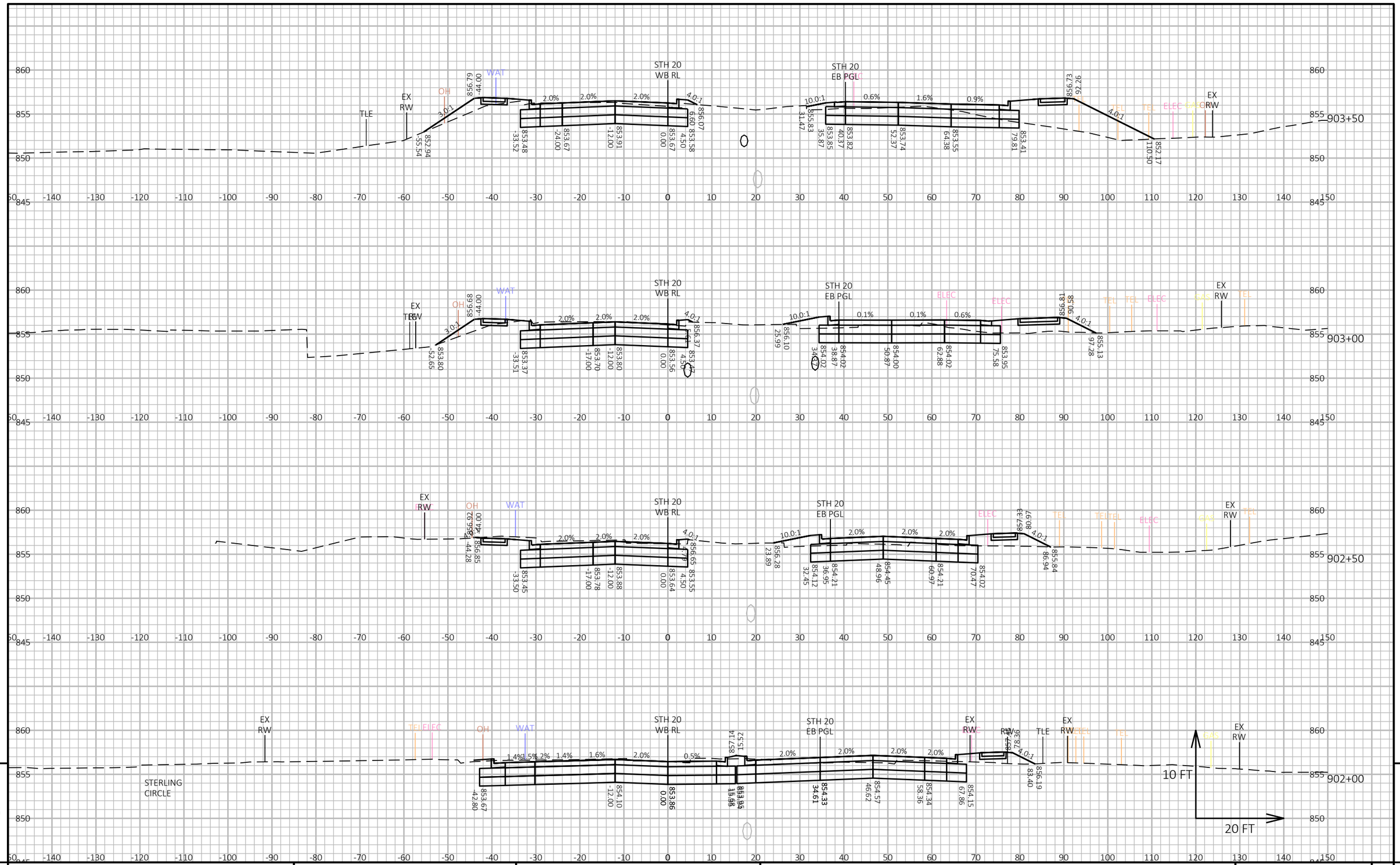


PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_357

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090209-XS

PLOT DATE : 11/16/2021 9:16 AM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090210-XS

PLOT DATE : 11/16/2021 9:16 AM

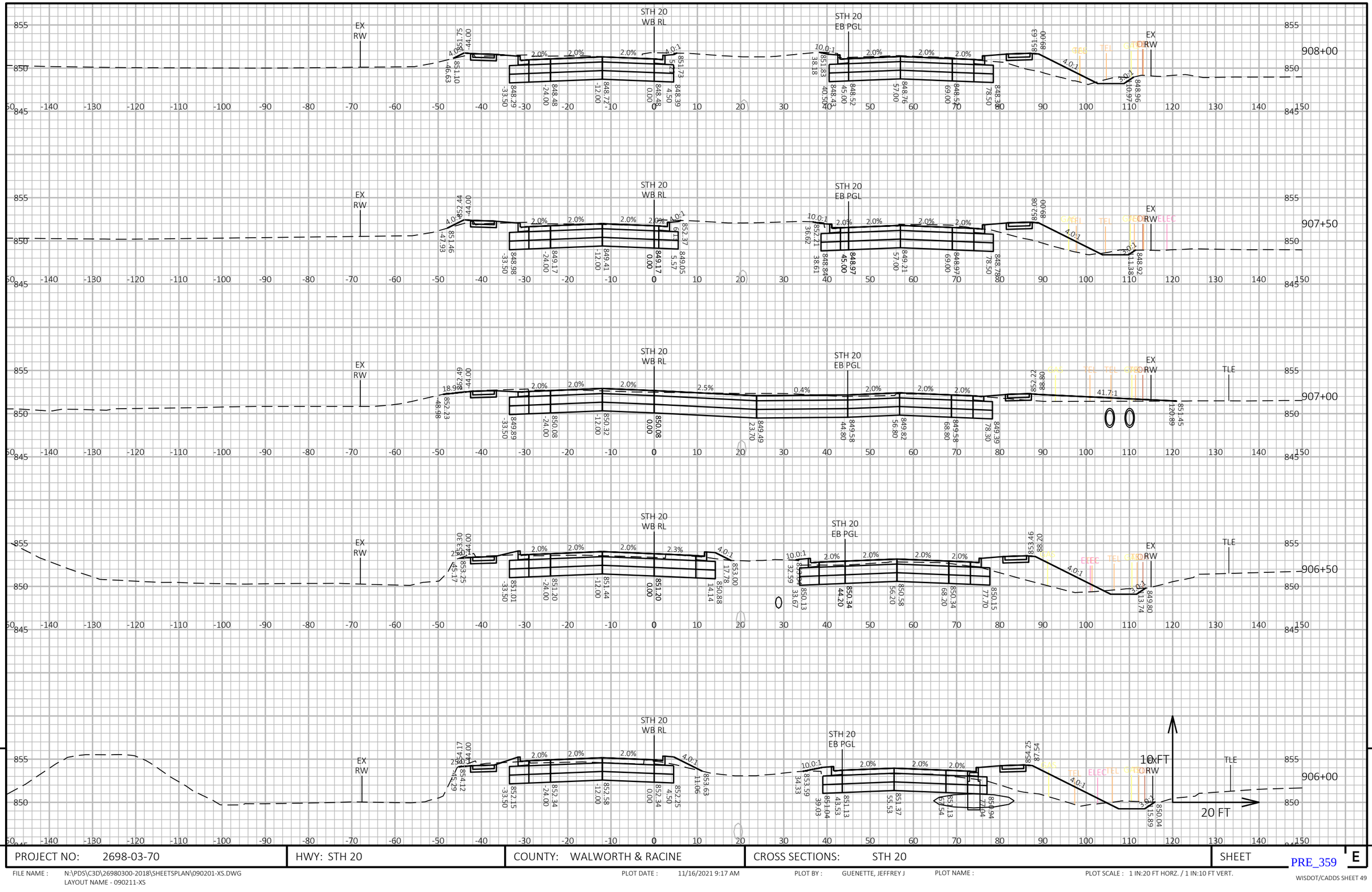
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_358

WISDOT/CADDS SHEET 49



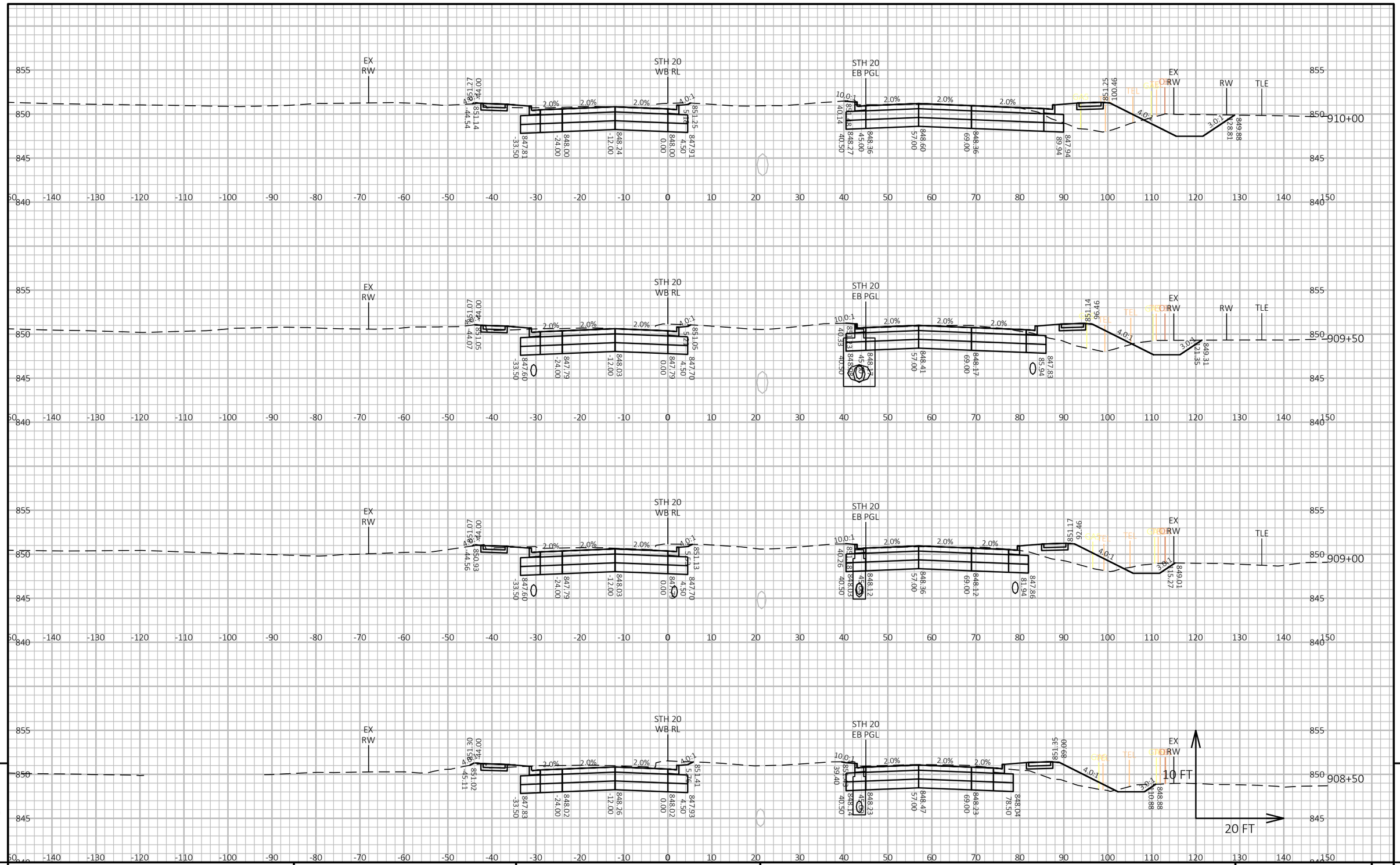
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_359

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090211-XS

PLOT DATE : 11/16/2021 9:17 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090212-XS

PLOT DATE : 11/16/2021 9:17 AM

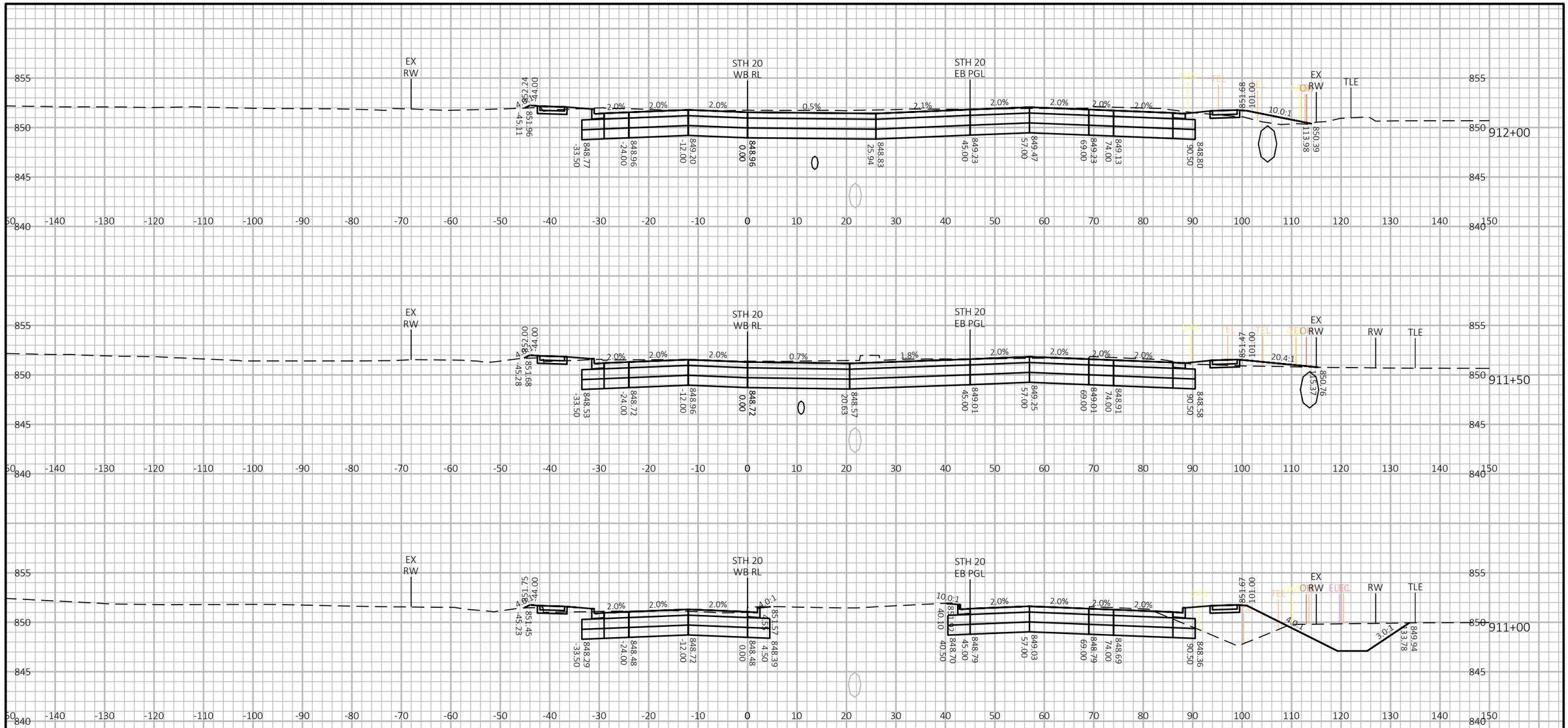
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_360

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_361

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090213-XS

PLOT DATE : 11/16/2021 9:18 AM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_362

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090214-XS

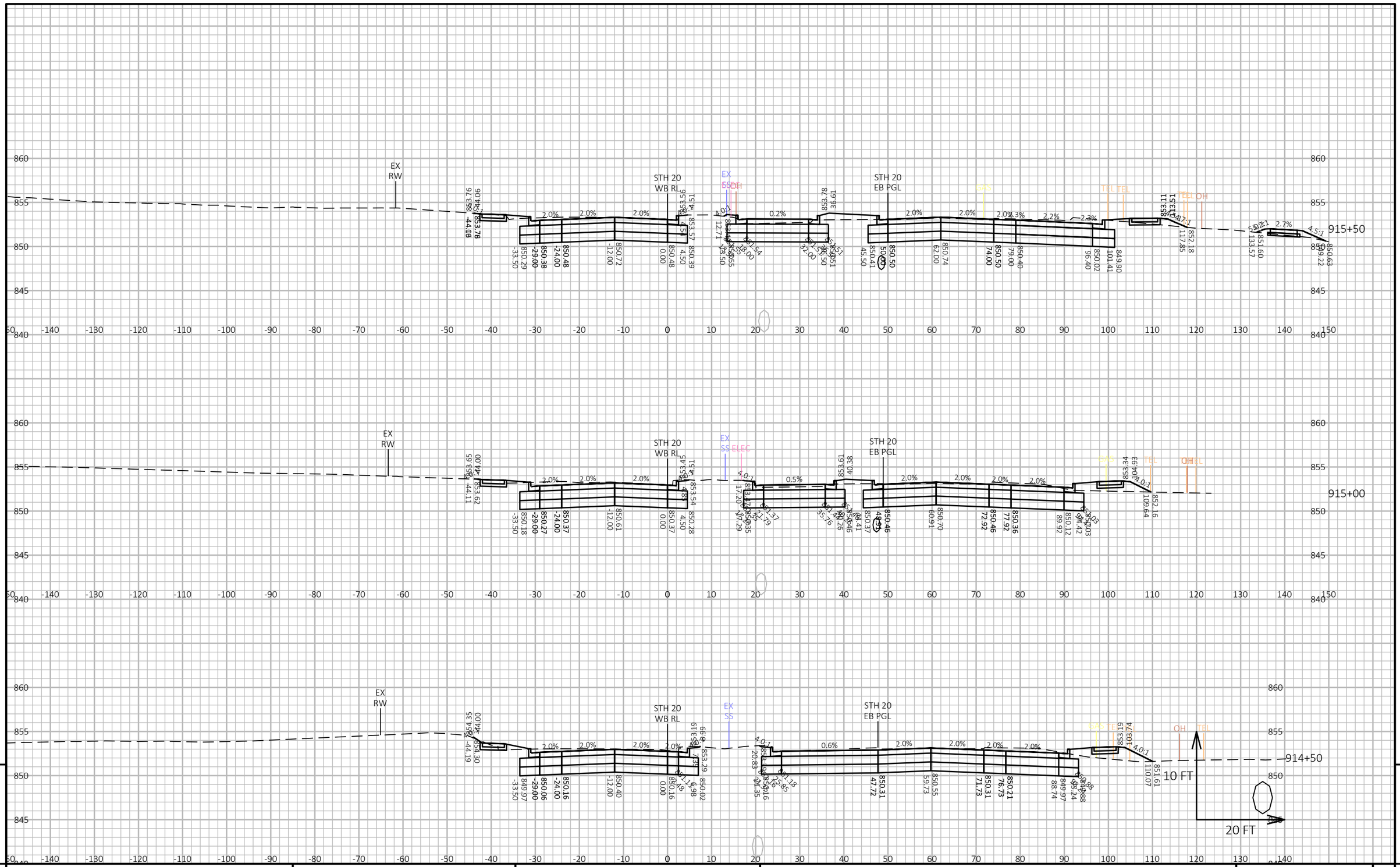
PLOT DATE : 8/31/2021 1:09 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_363

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090215-XS

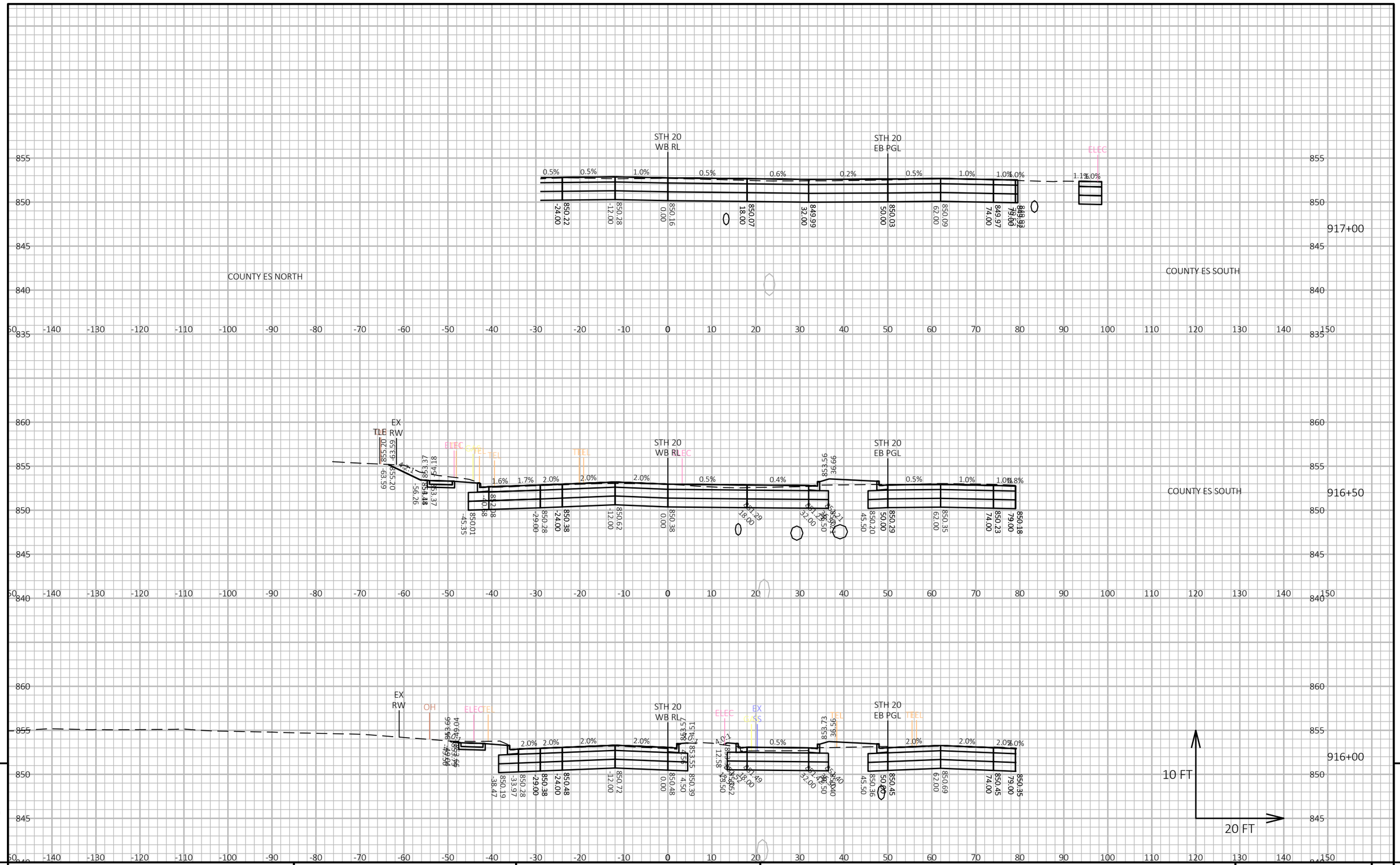
PLOT DATE : 8/31/2021 1:10 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_364

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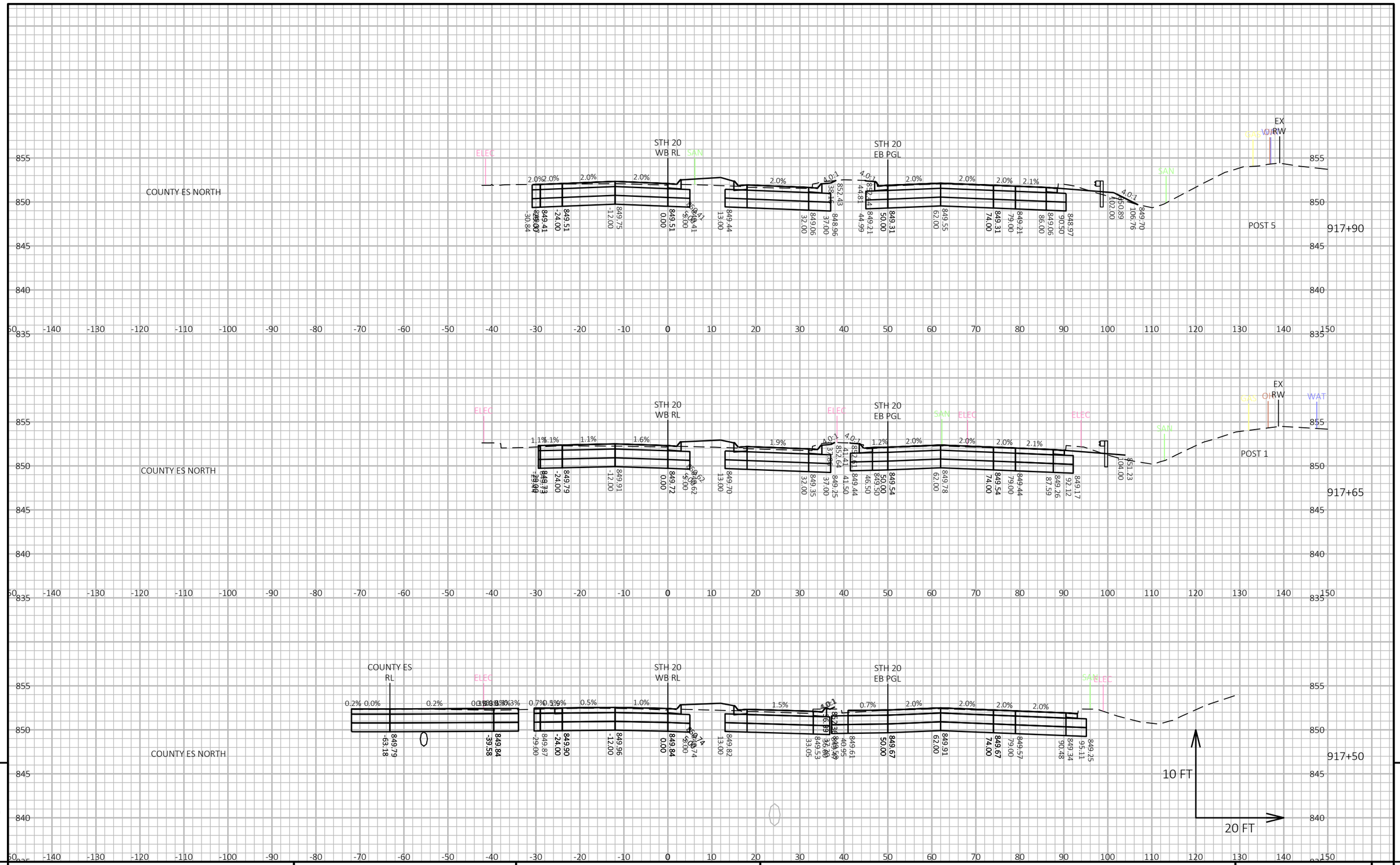
LAYOUT NAME - 090216-XS

PLOT DATE : 8/31/2021 1:10 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_365

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090217-XS

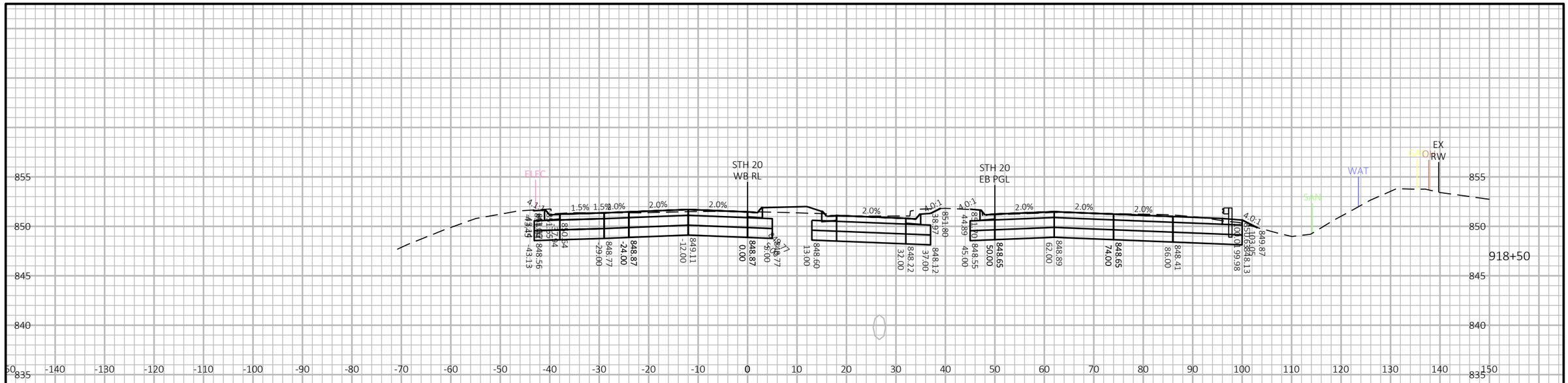
PLOT DATE : 8/31/2021 1:10 PM

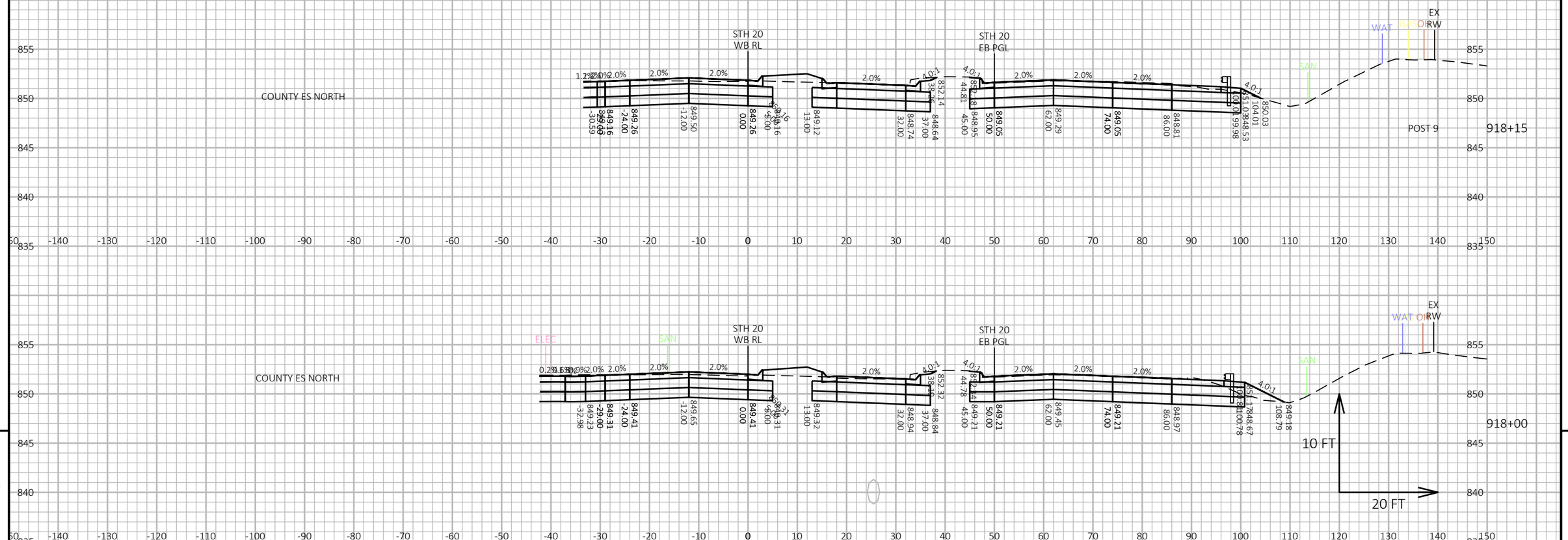
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090218-XS

PLOT DATE : 8/31/2021 1:10 PM

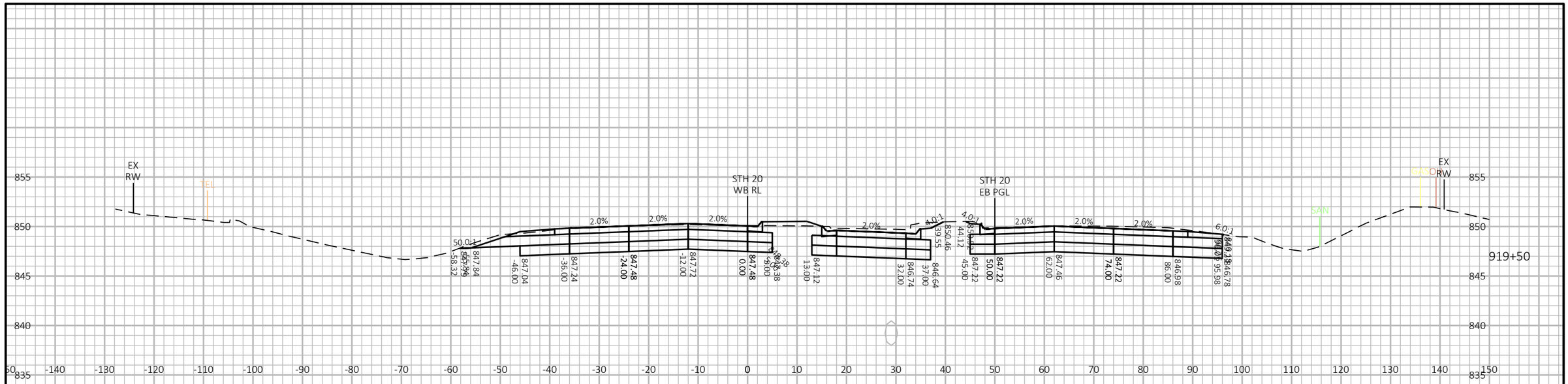
PLOT BY : GUENETTE, JEFFREY J

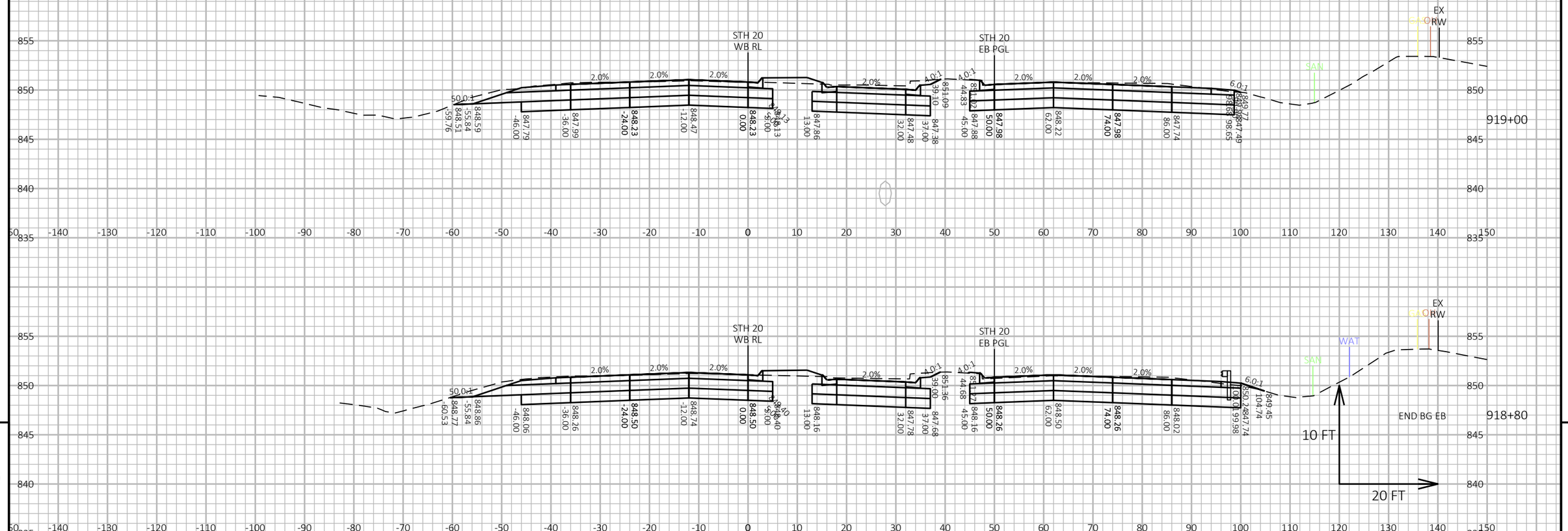
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_366

WISDOT/CADDS SHEET 49





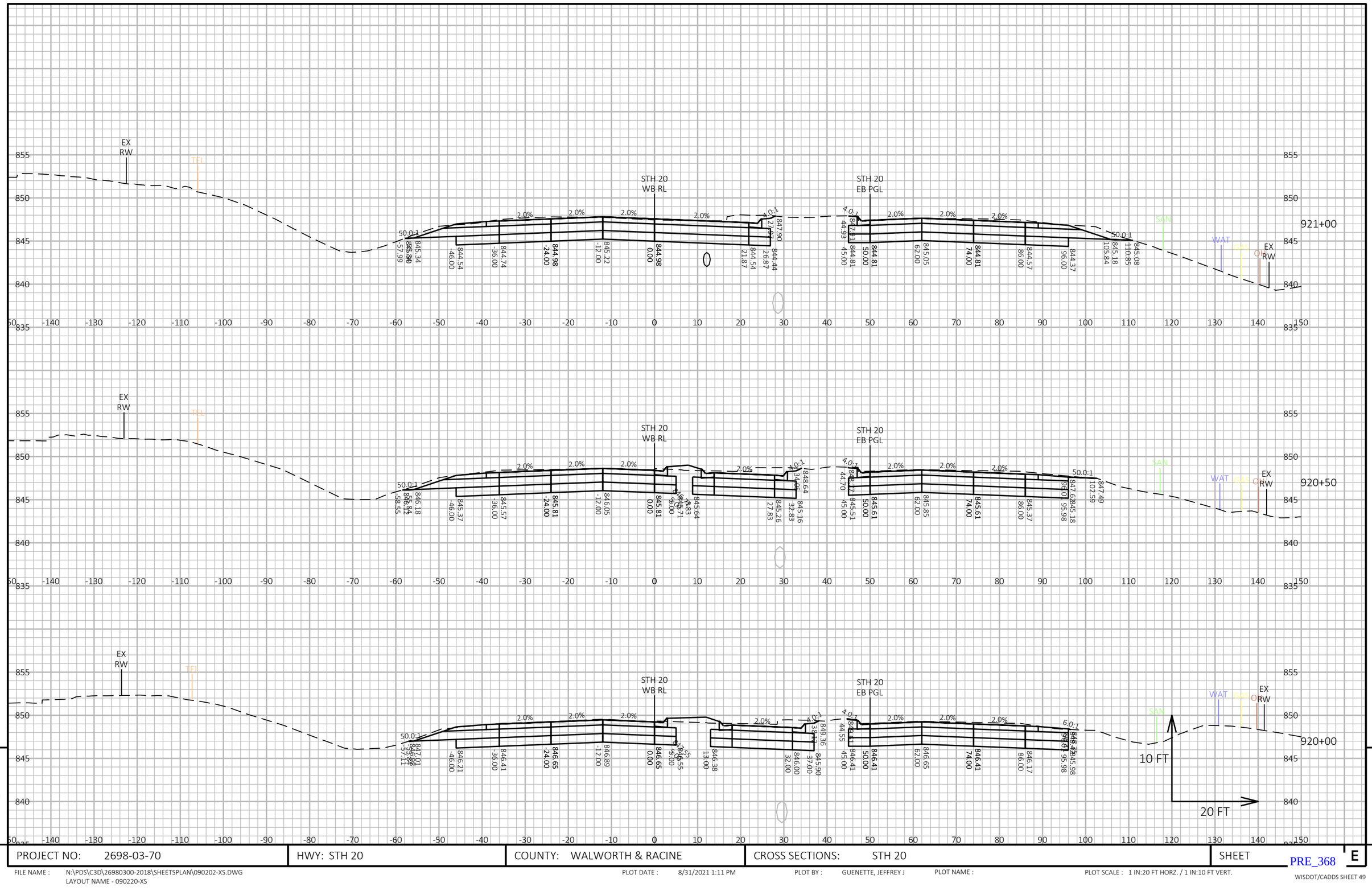
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_367

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090219-XS

PLOT DATE : 8/31/2021 1:11 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET PRE_368 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090220-XS

PLOT DATE : 8/31/2021 1:11 PM

PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_369

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090221-XS

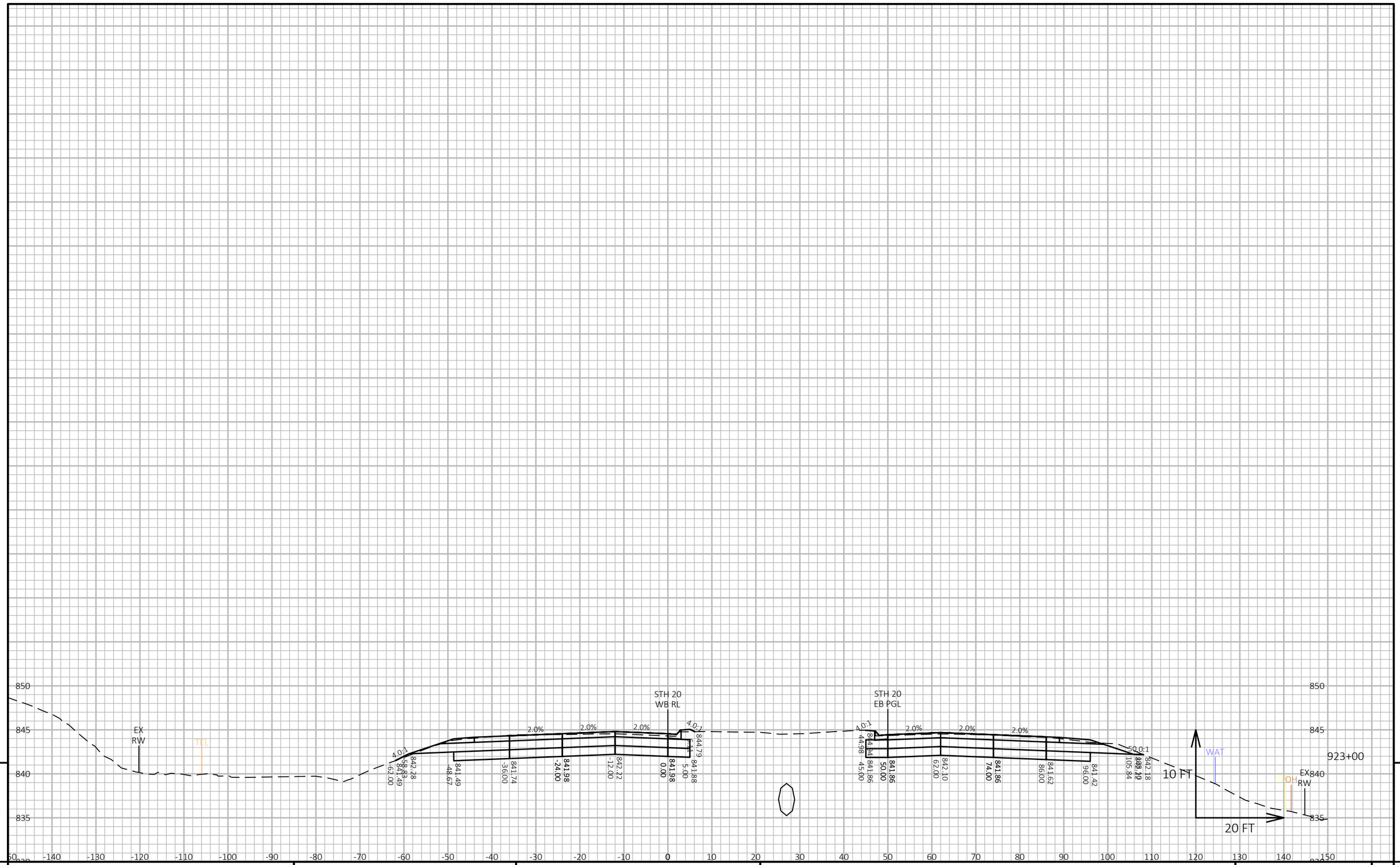
PLOT DATE : 8/31/2021 1:11 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090222-XS

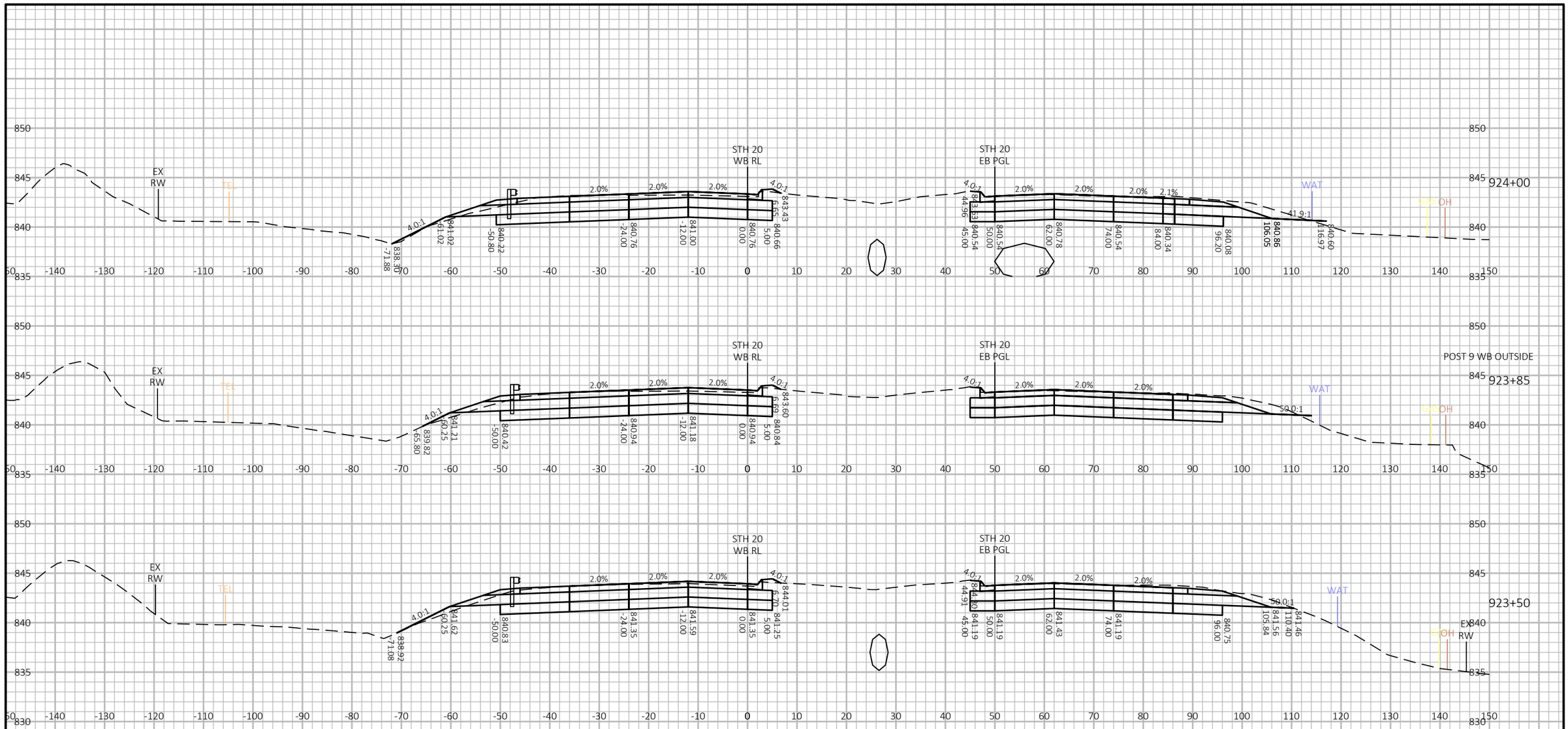
PLOT DATE : 8/31/2021 1:12 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_370



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET PRE_371 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090223-XS

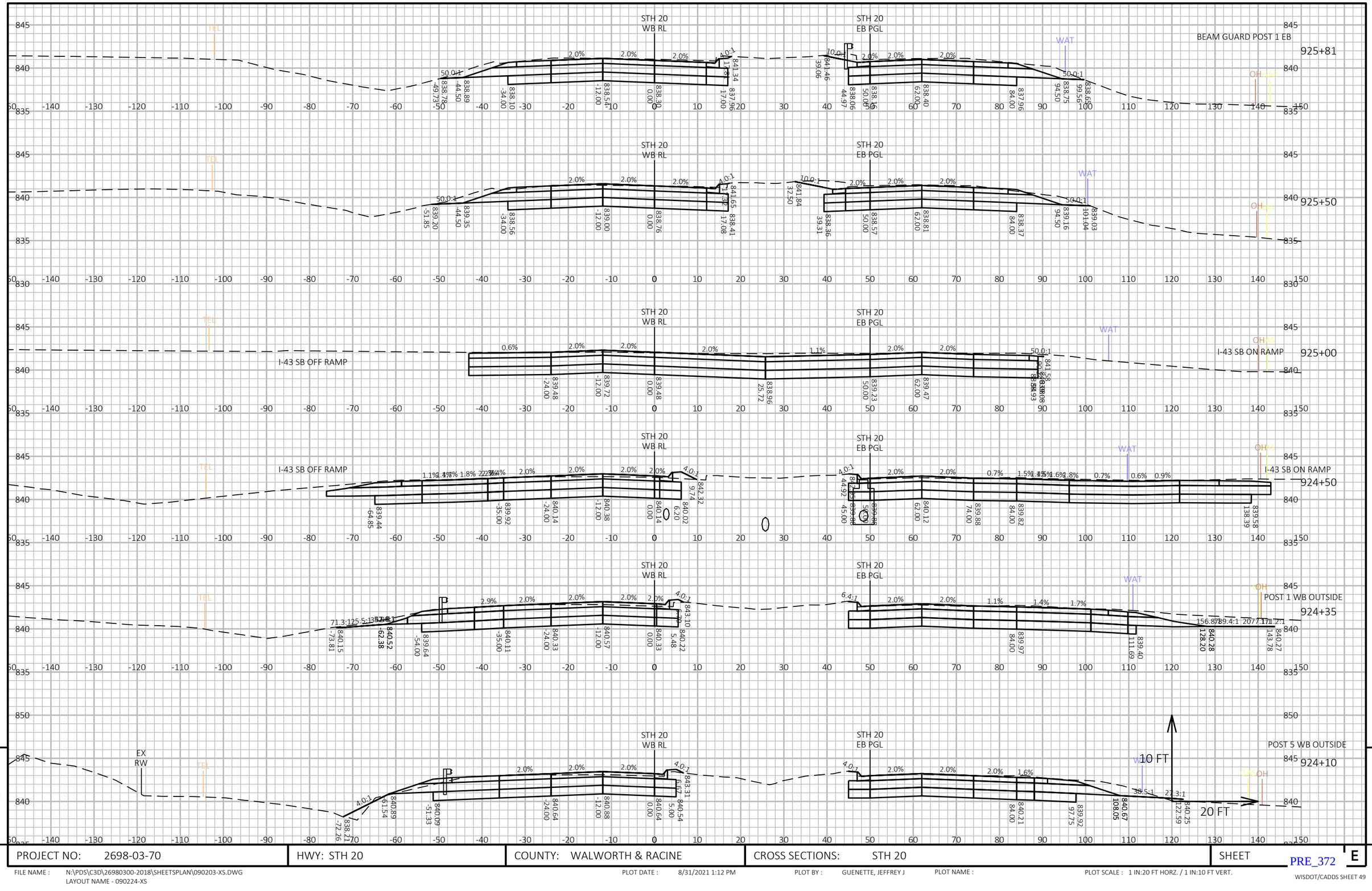
PLOT DATE : 8/31/2021 1:12 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_372

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090224-XS

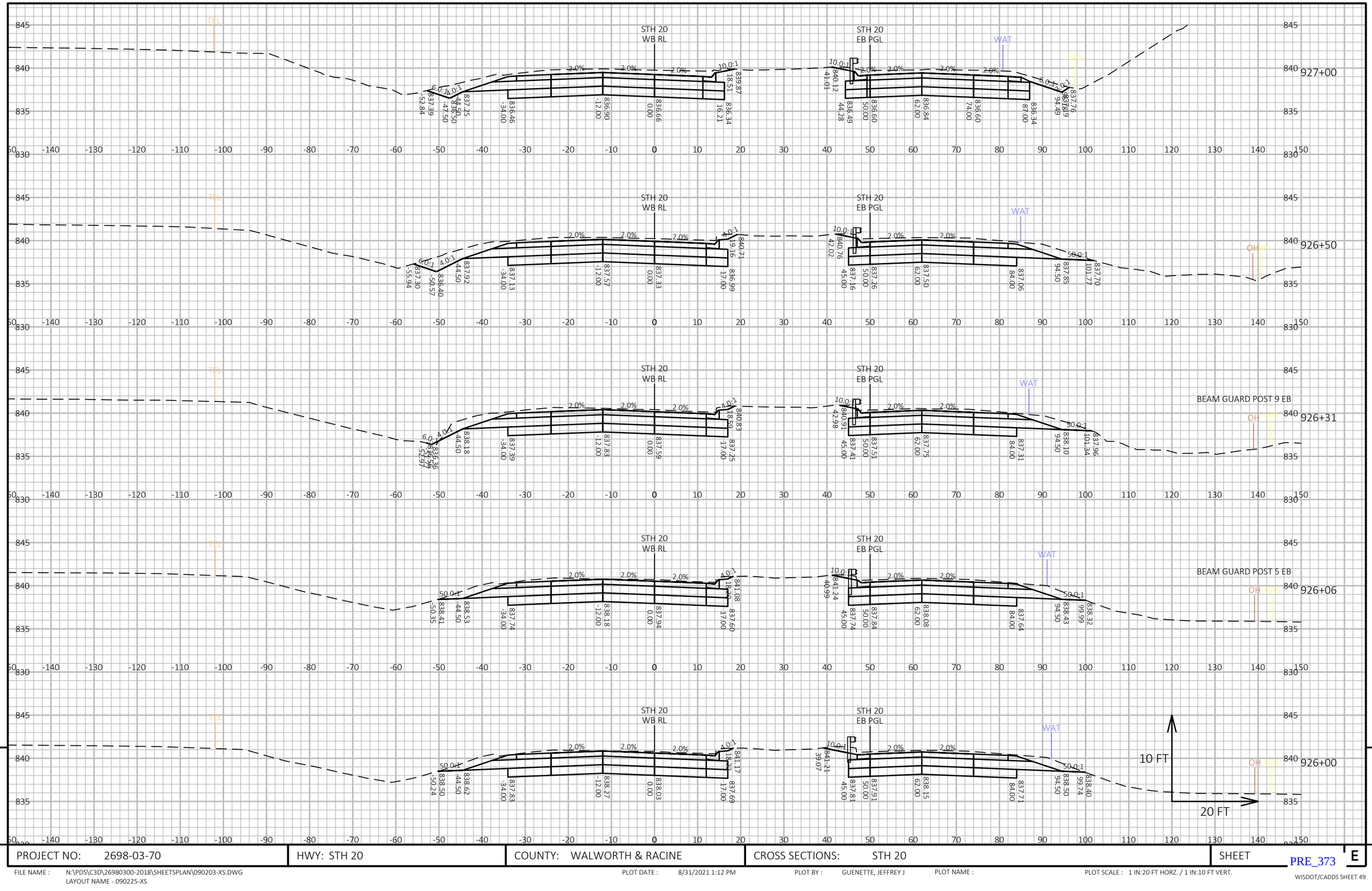
PLOT DATE : 8/31/2021 1:12 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_373

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090225-XS

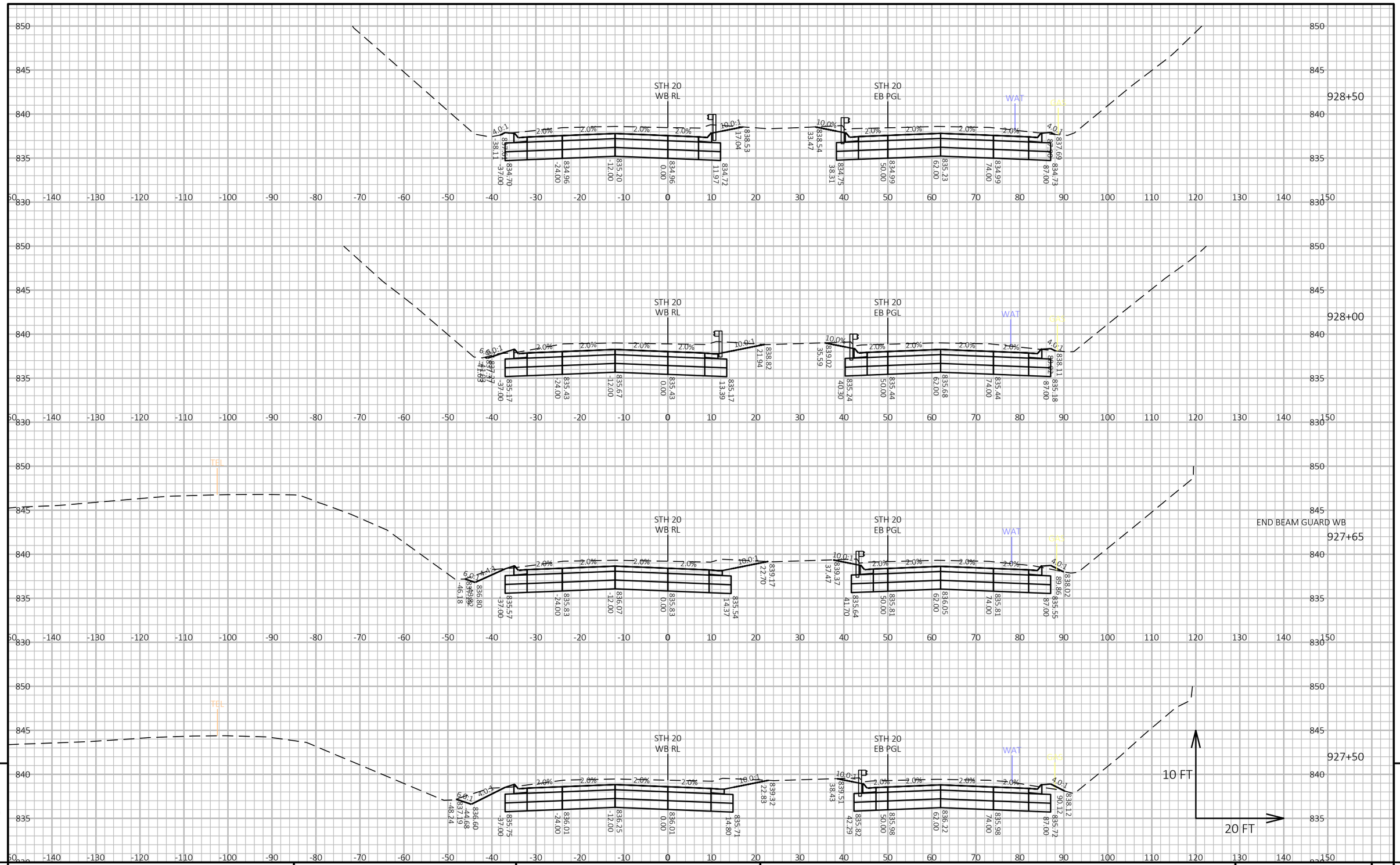
PLOT DATE : 8/31/2021 1:12 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_374

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090226-XS

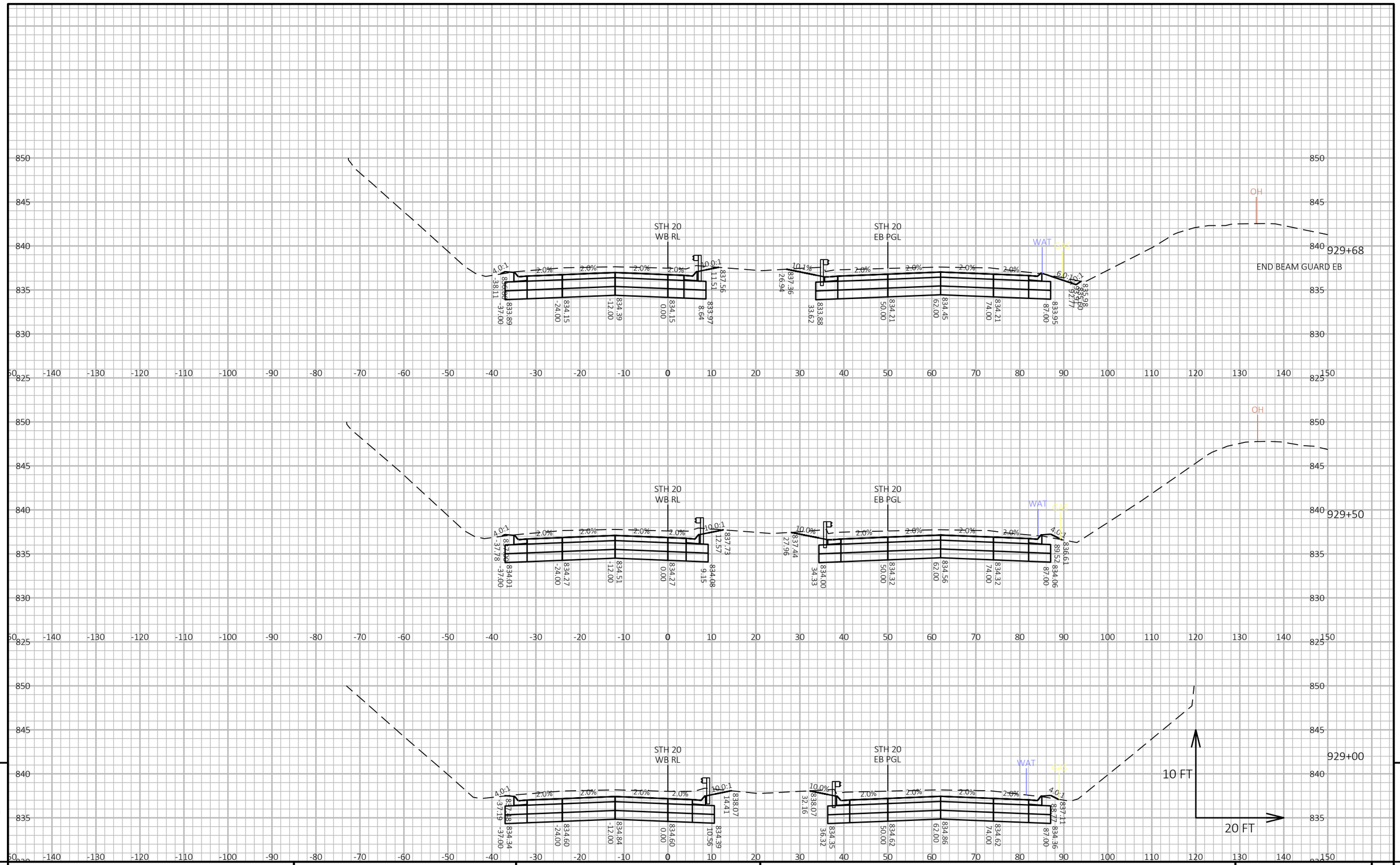
PLOT DATE : 8/31/2021 1:12 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_375

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090227-XS

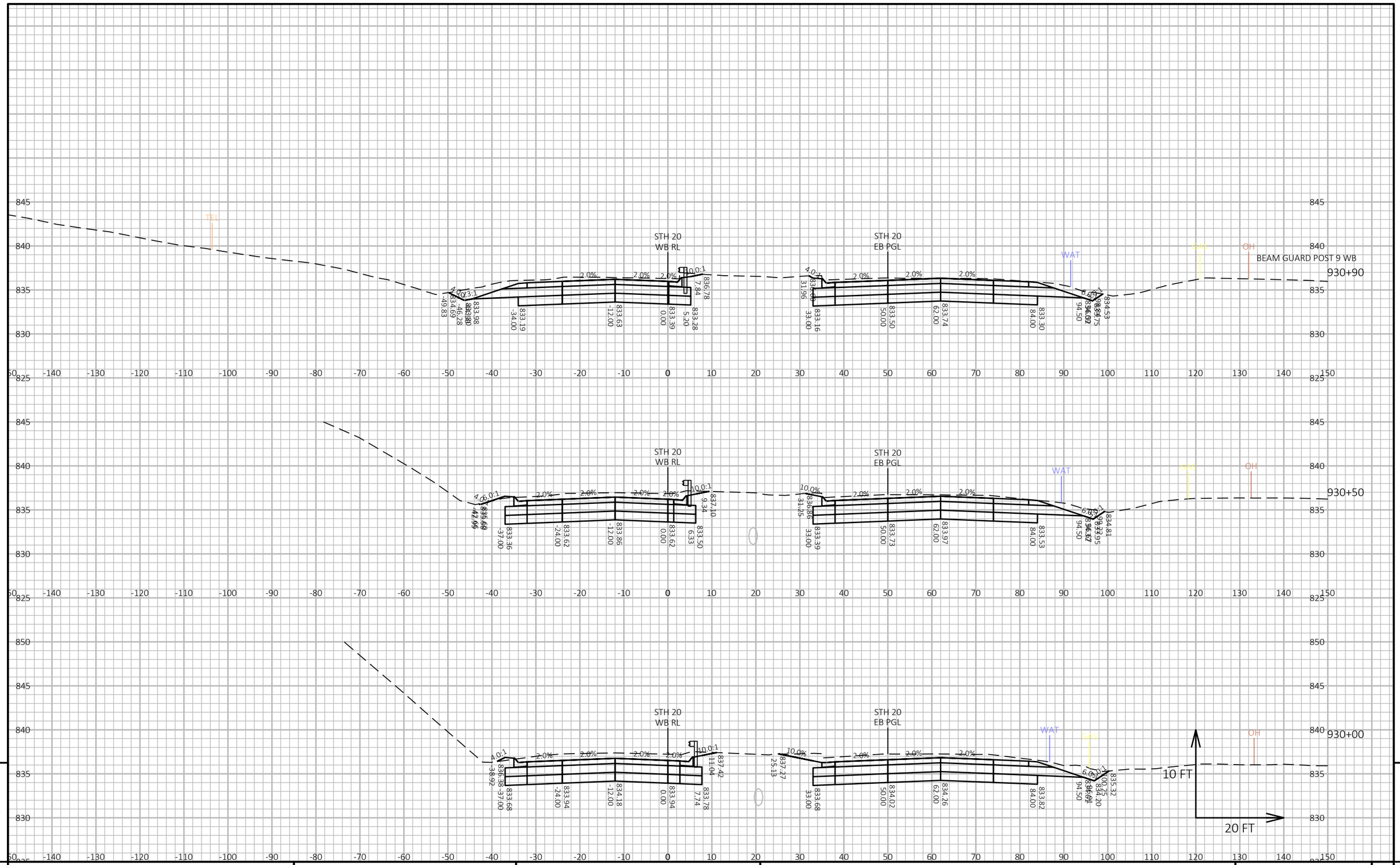
PLOT DATE : 8/31/2021 1:13 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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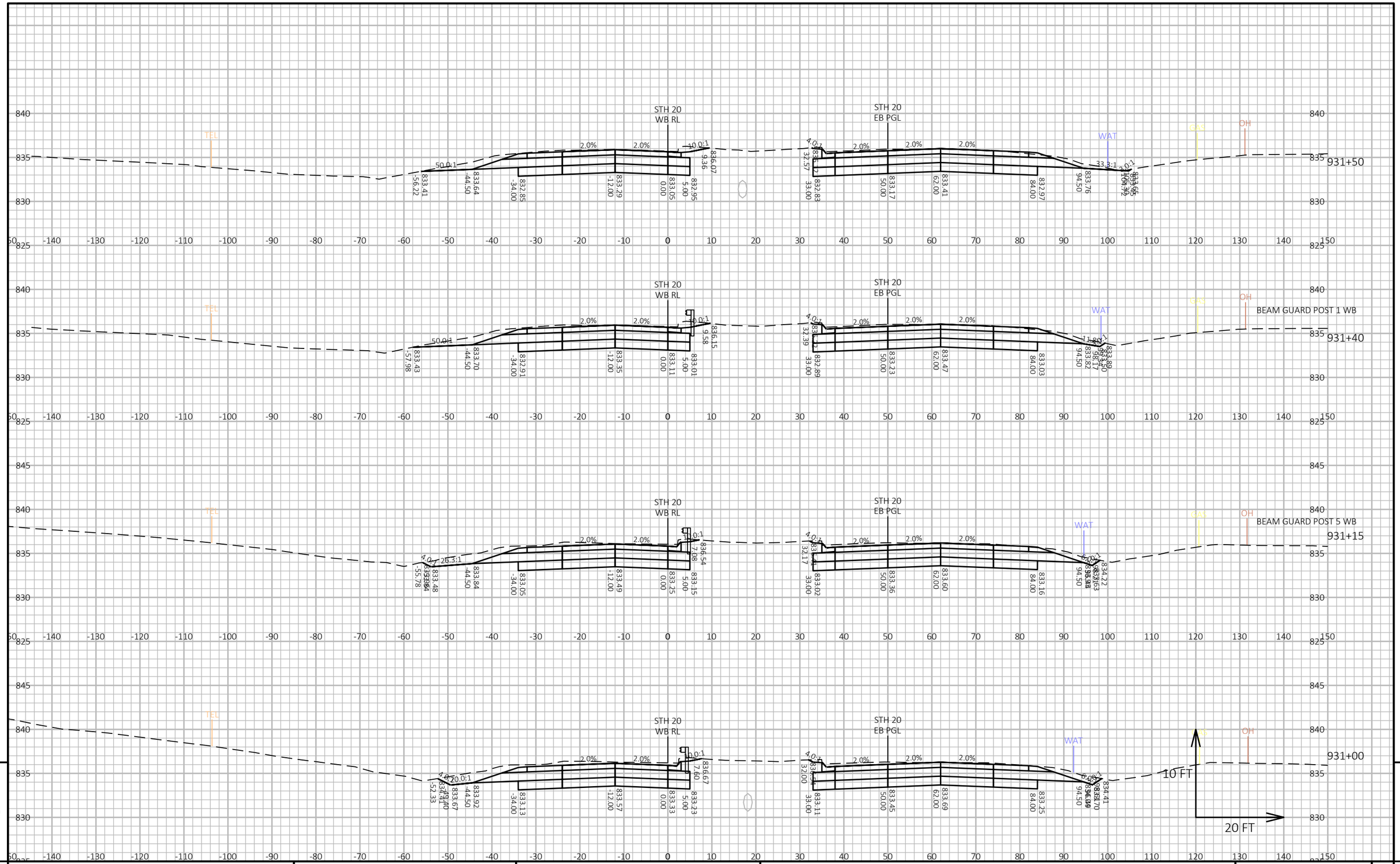
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_376

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090228-XS

PLOT DATE : 8/31/2021 1:13 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090229-XS

PLOT DATE : 8/31/2021 1:13 PM

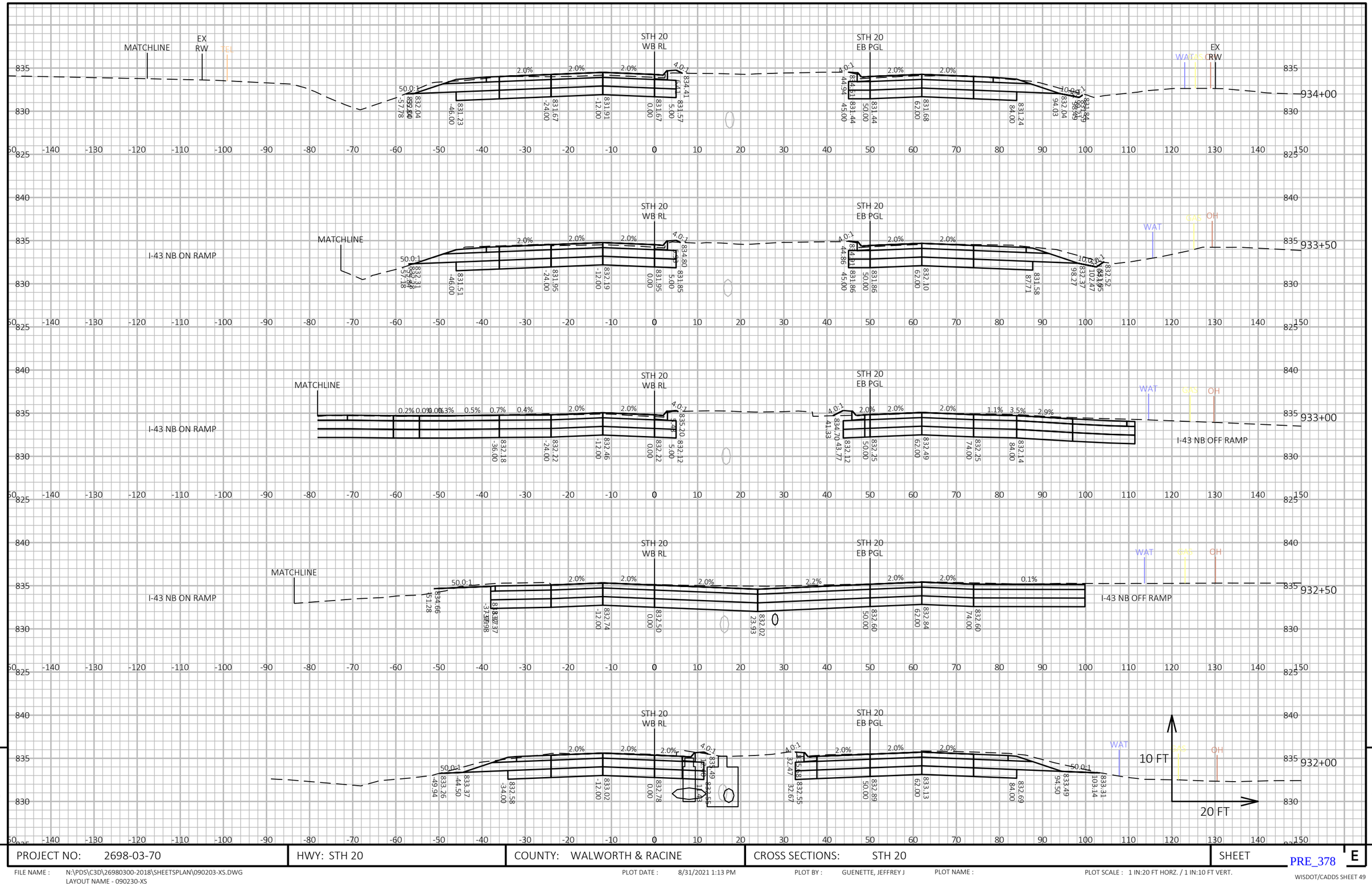
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_377

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090230-XS

PLOT DATE : 8/31/2021 1:13 PM

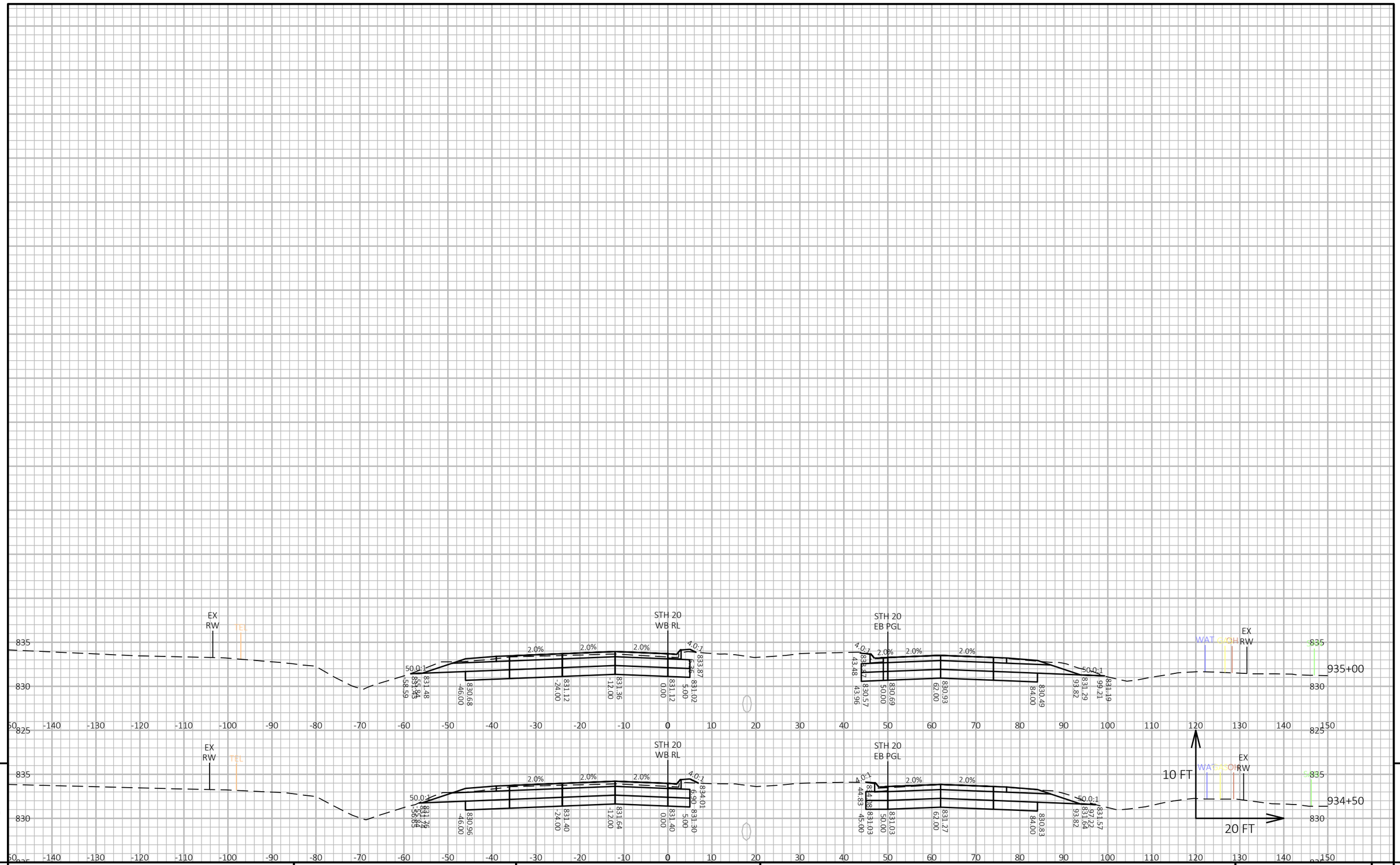
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_378

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET PRE_379 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090231-XS

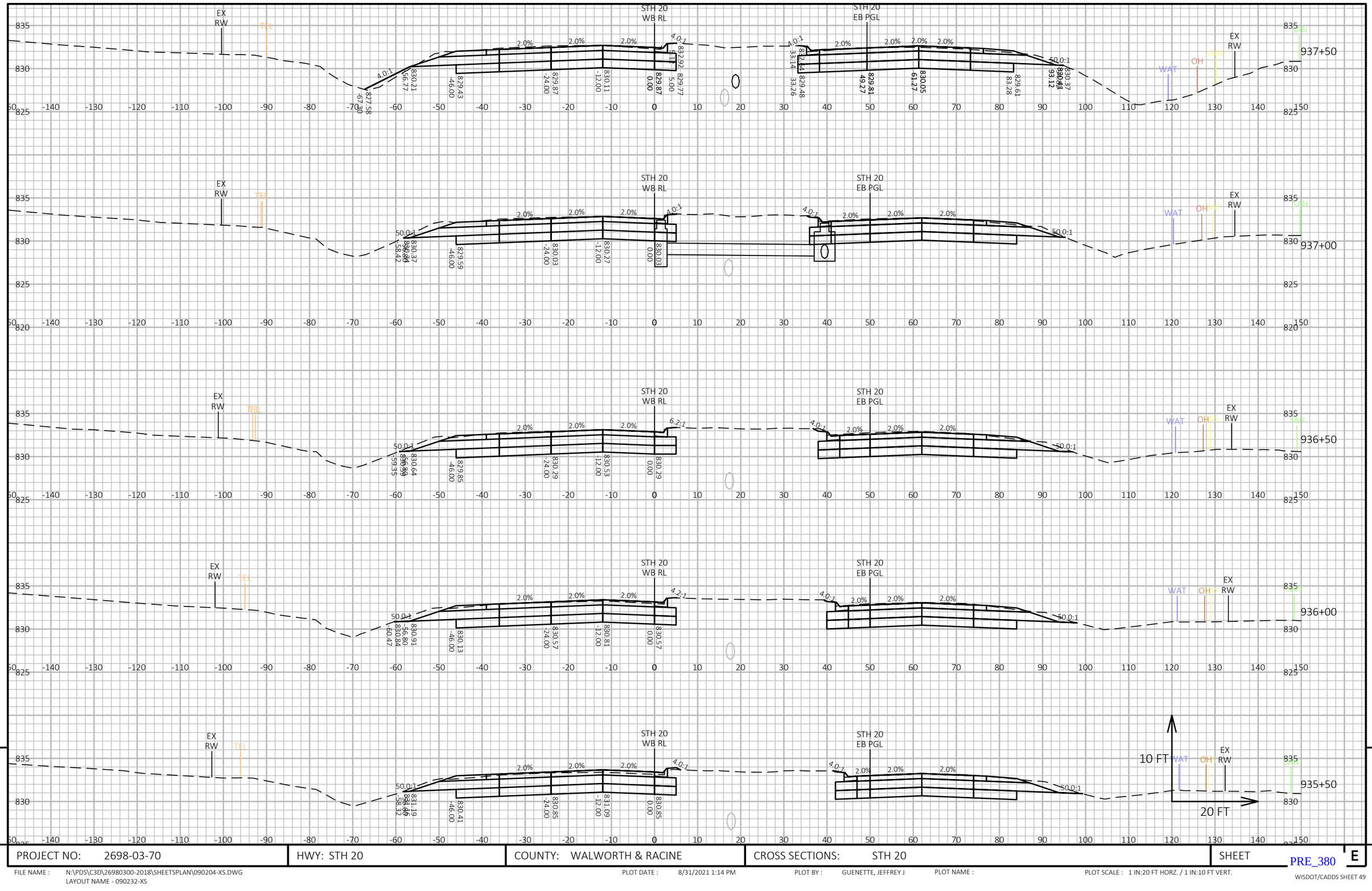
PLOT DATE : 8/31/2021 1:14 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_380

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090232-XS

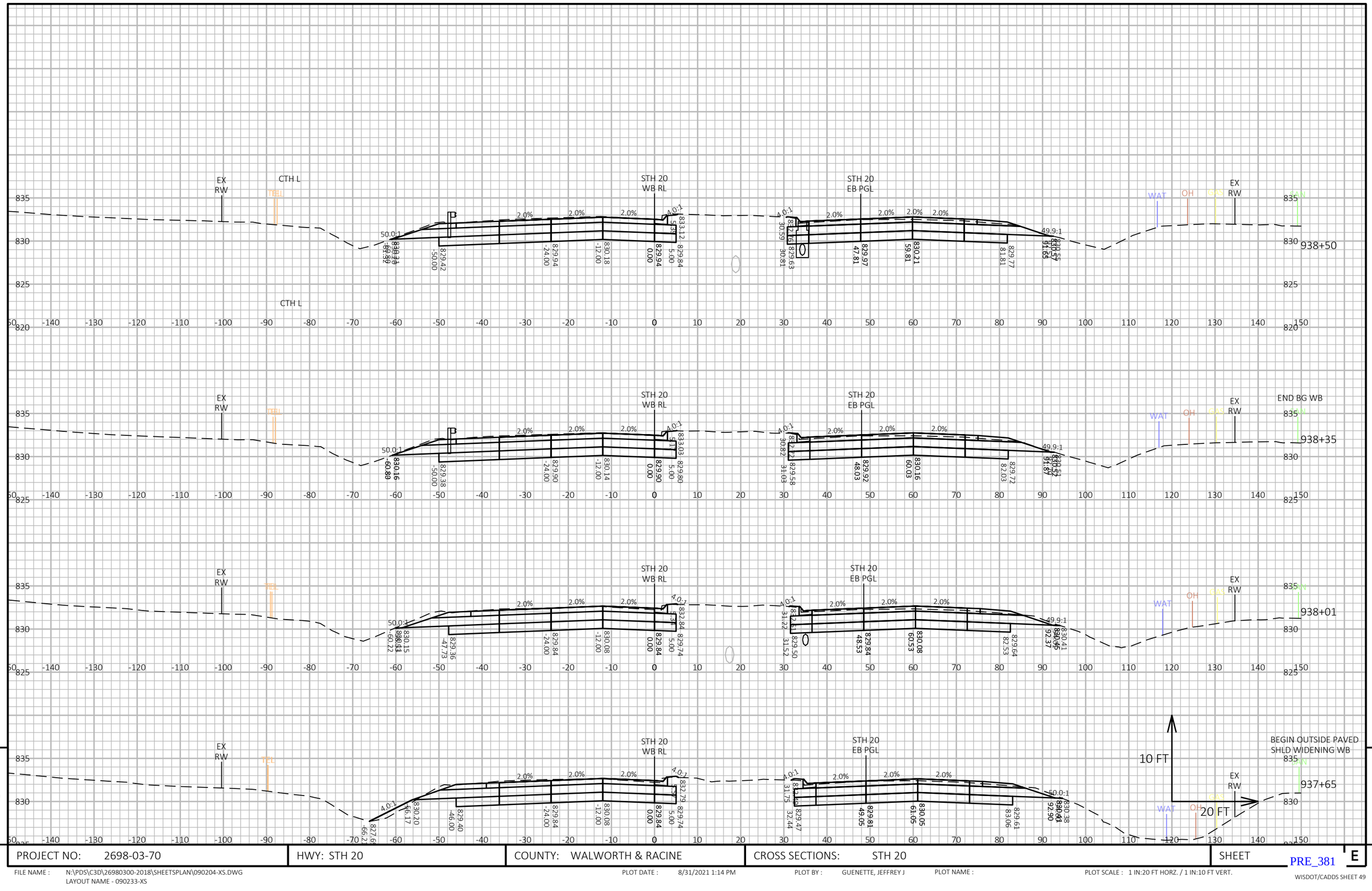
PLOT DATE : 8/31/2021 1:14 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET PRE_381 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090233-XS

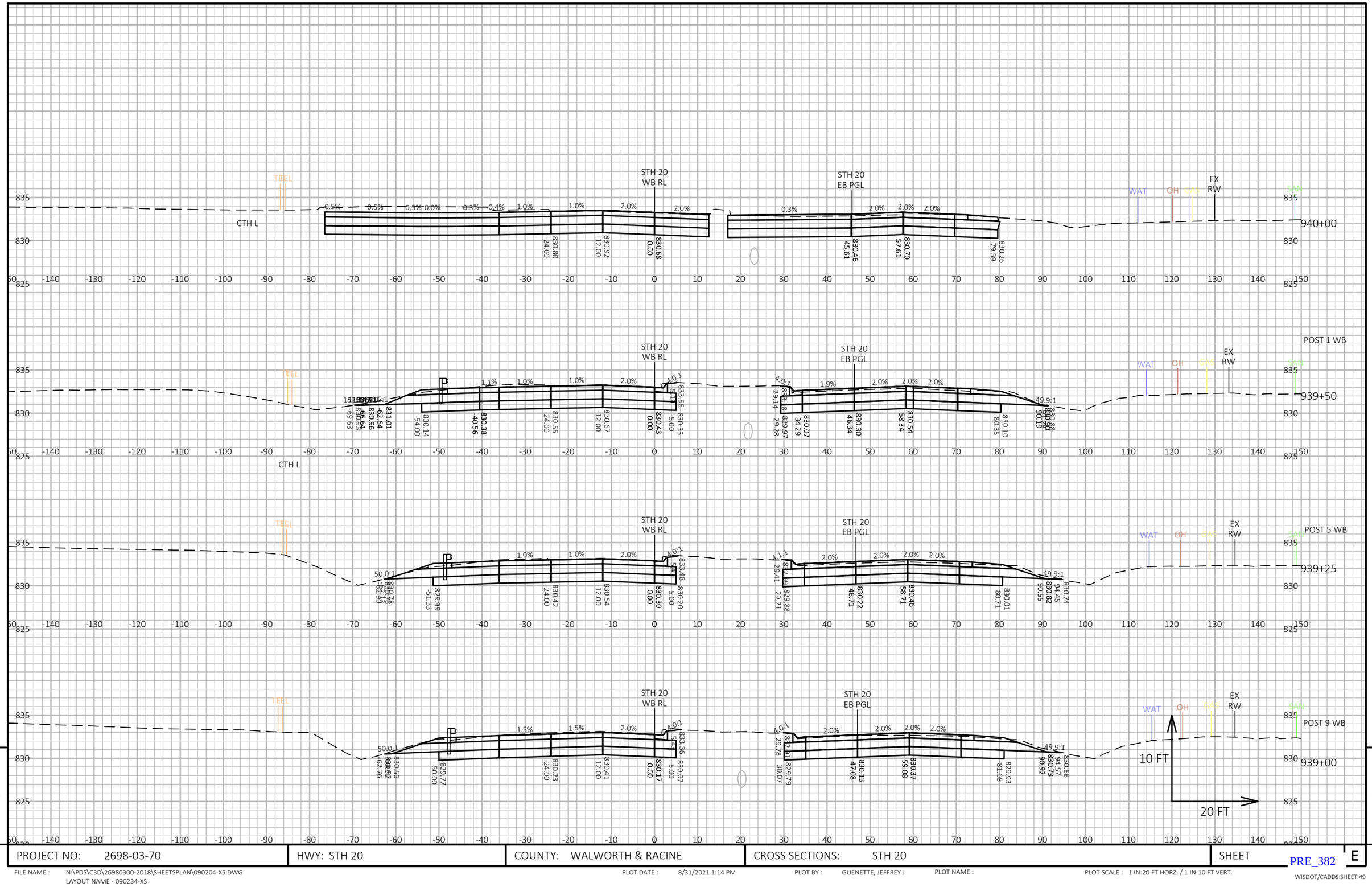
PLOT DATE : 8/31/2021 1:14 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET PRE_382 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090234-XS

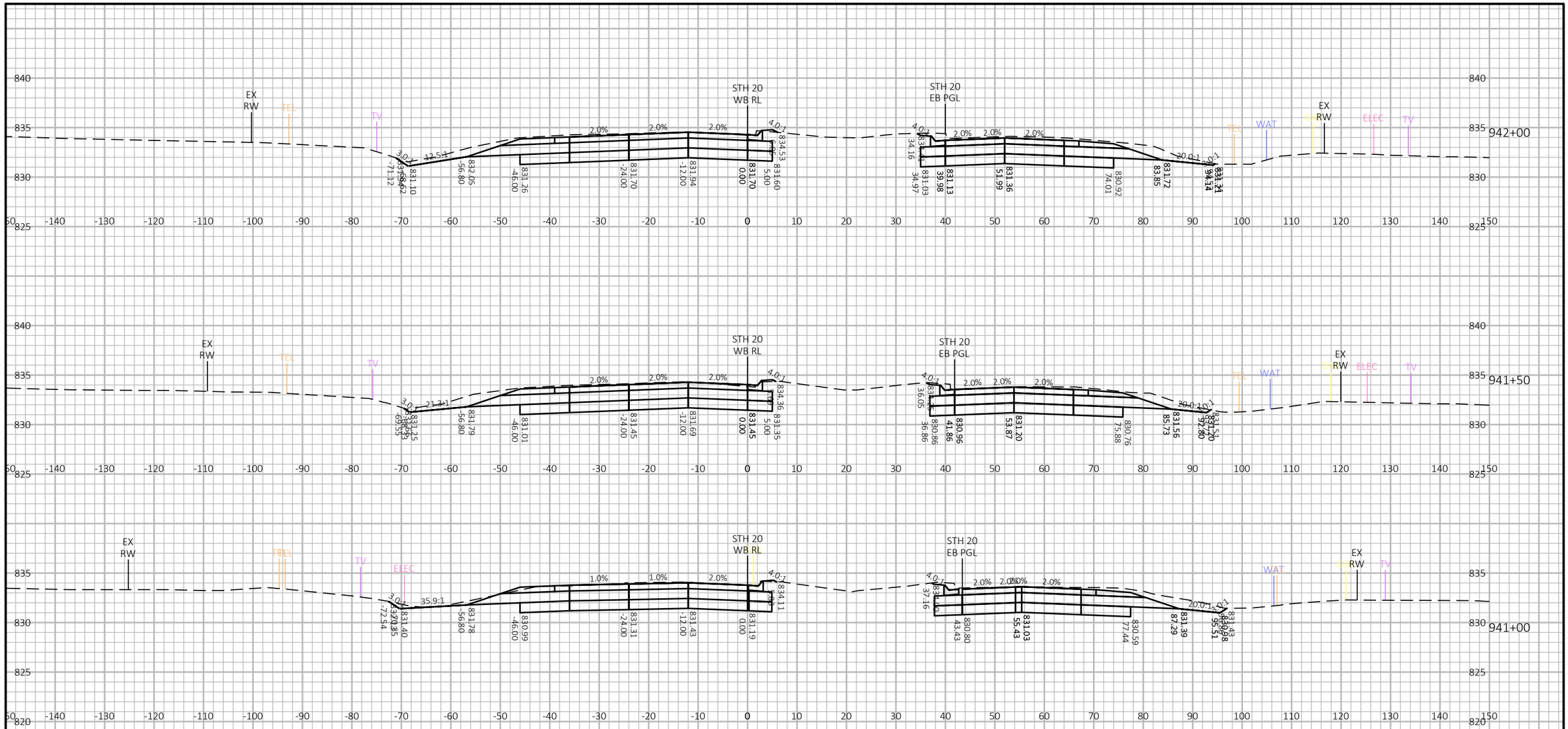
PLOT DATE : 8/31/2021 1:14 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_383

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090235-XS

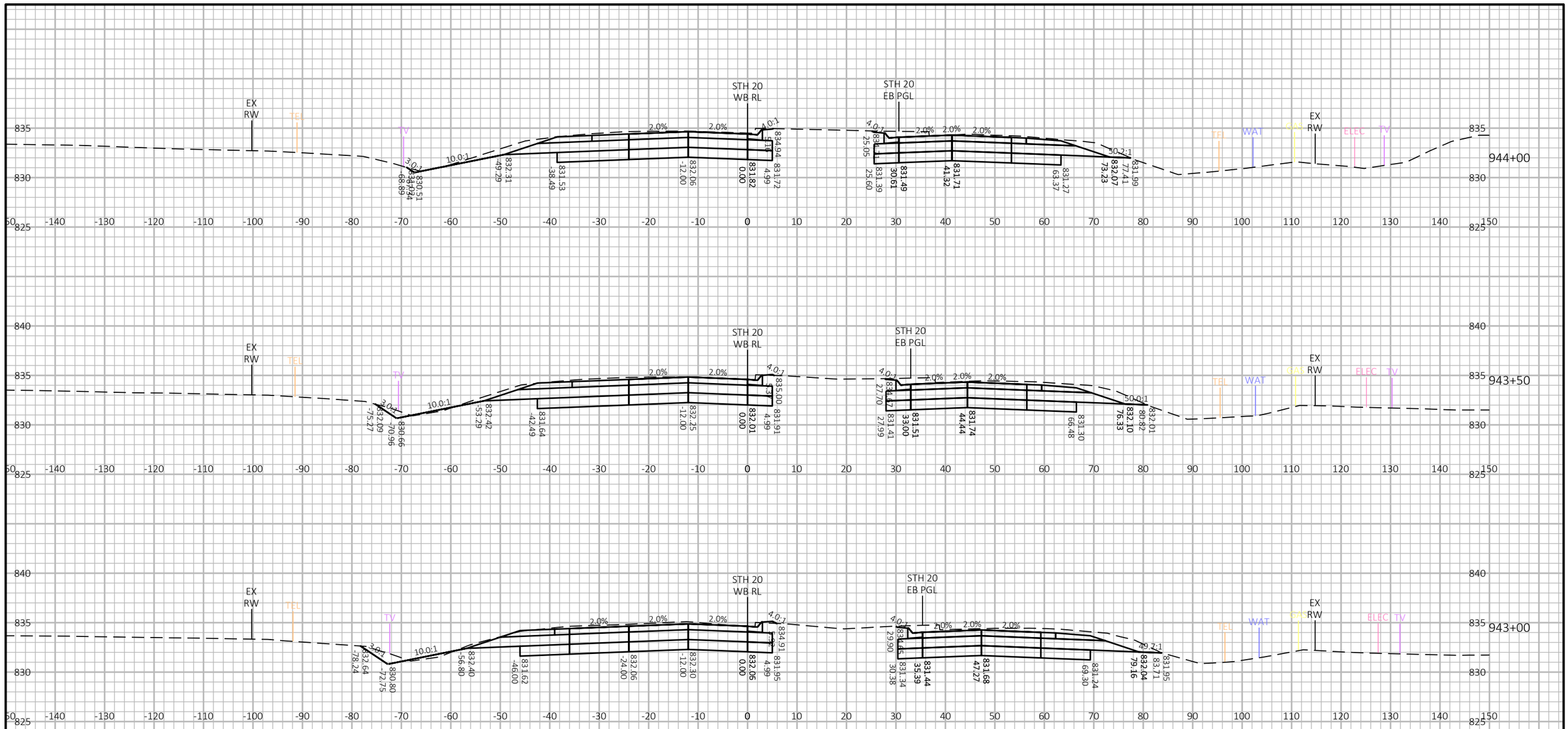
PLOT DATE : 8/31/2021 1:14 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_384

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090236-XS

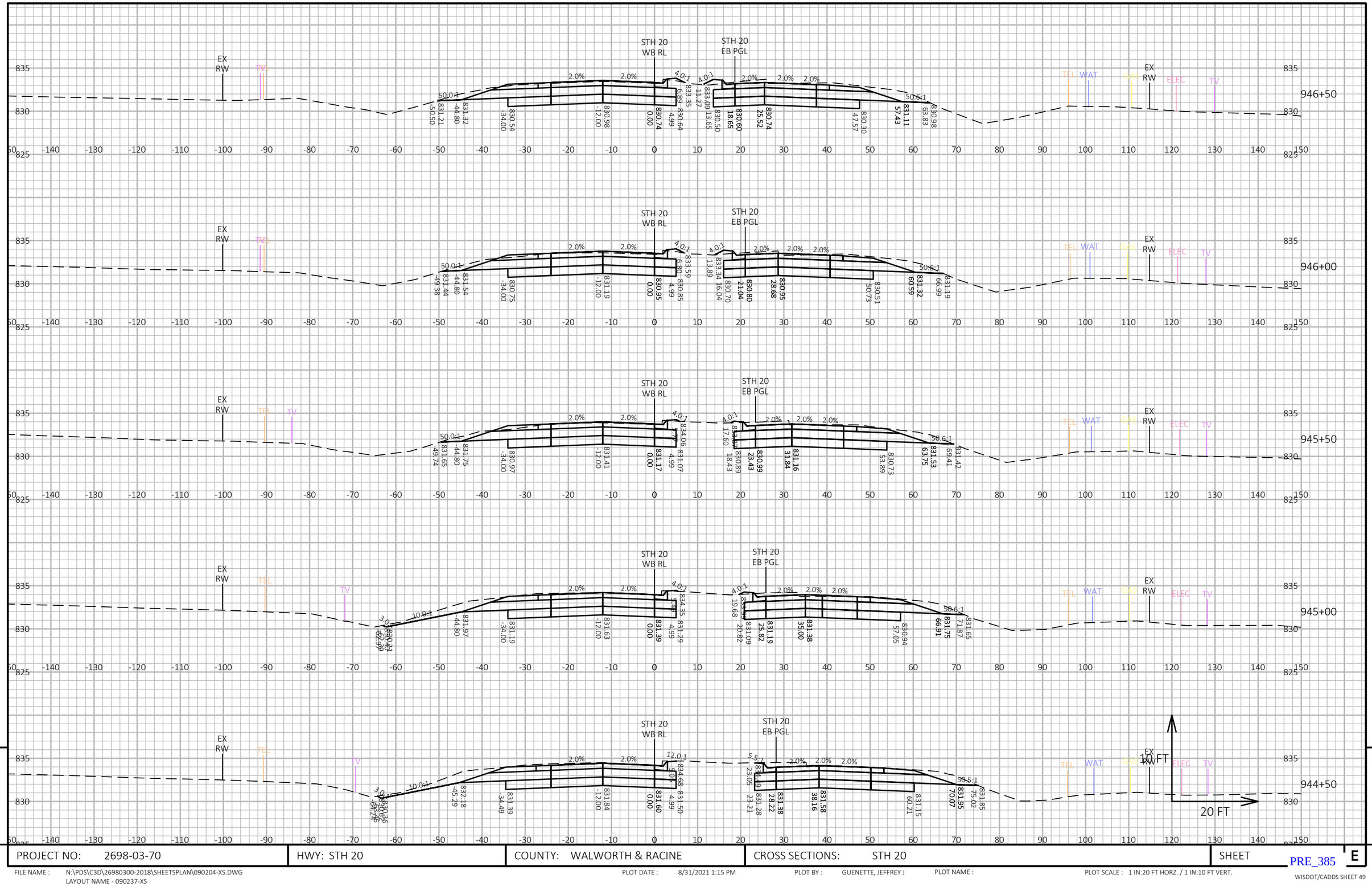
PLOT DATE : 8/31/2021 1:15 PM

PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_385

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090237-XS

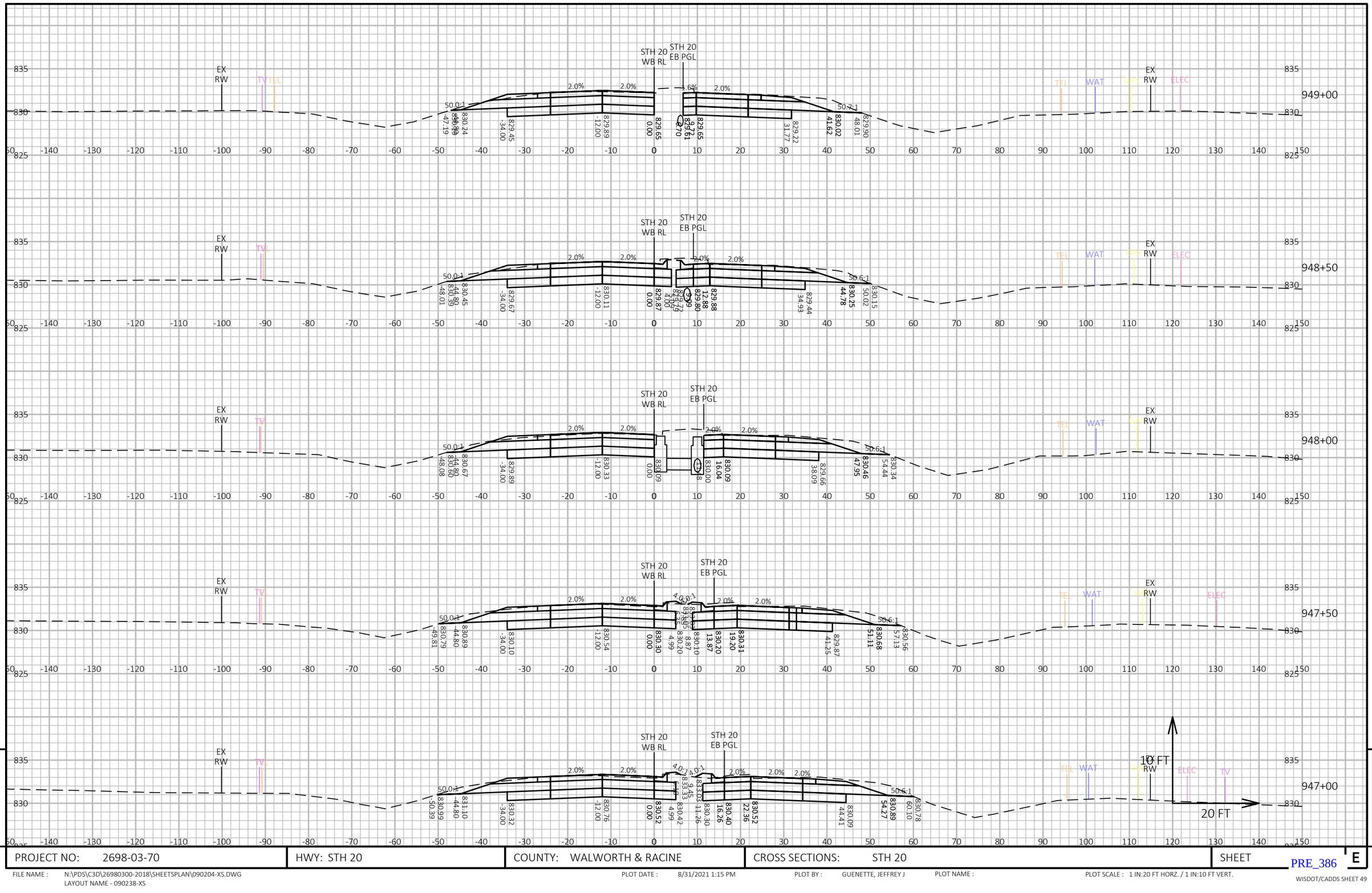
PLOT DATE : 8/31/2021 1:15 PM

PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_386

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090238-XS

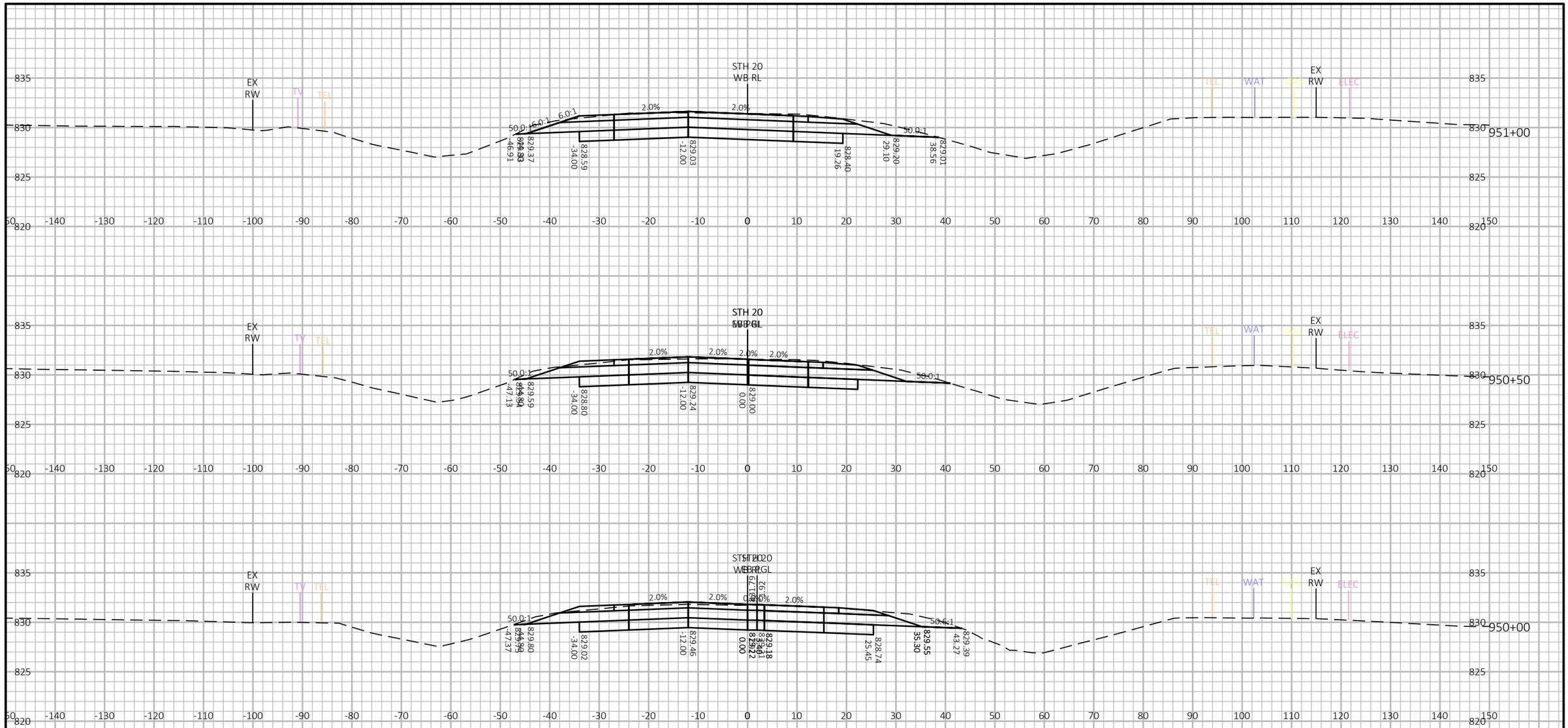
PLOT DATE : 8/31/2021 1:15 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET PRE_387 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090239-XS

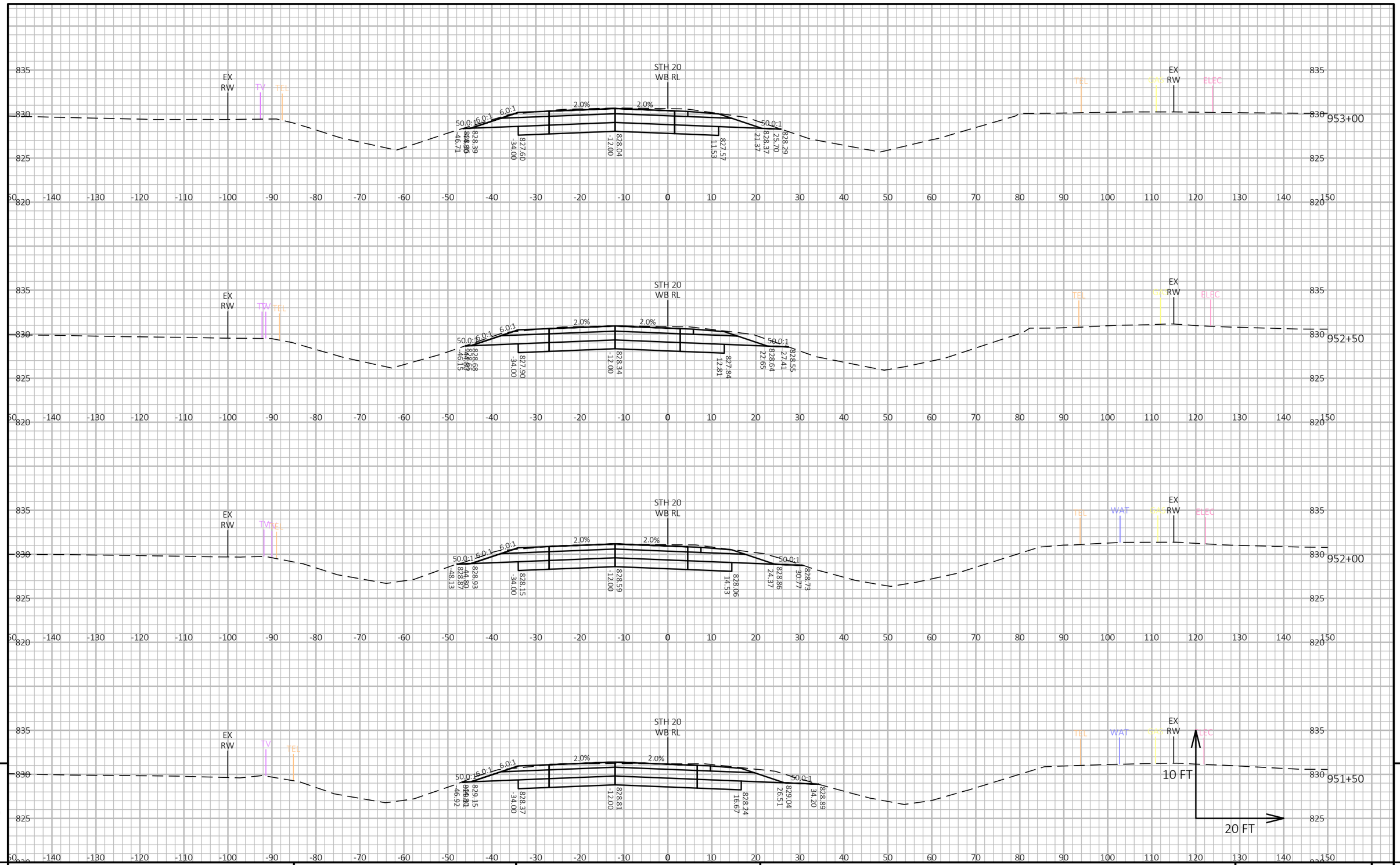
PLOT DATE : 8/31/2021 1:15 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_388

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090240-XS

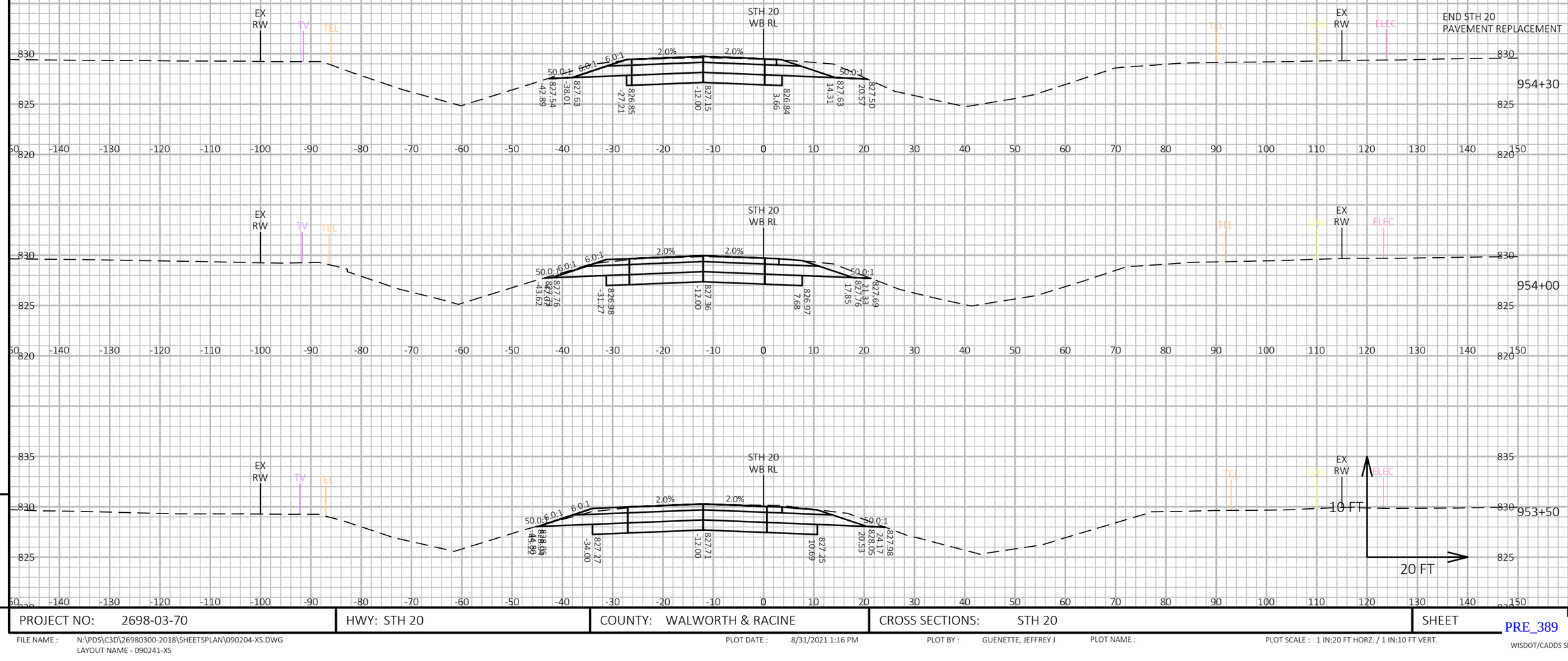
PLOT DATE : 8/31/2021 1:16 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090241-XS

PLOT DATE : 8/31/2021 1:16 PM

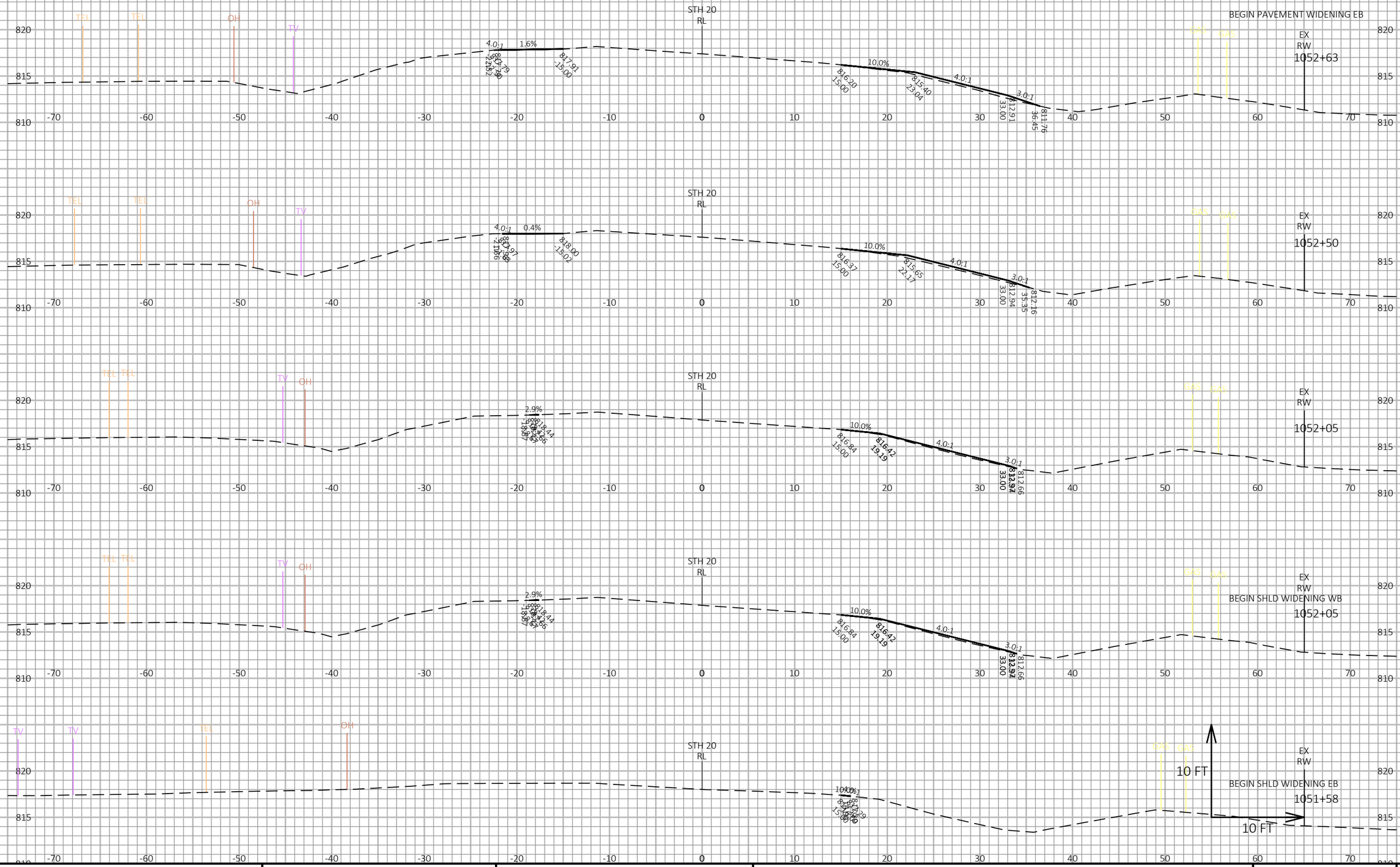
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_389

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_390

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090242-XS

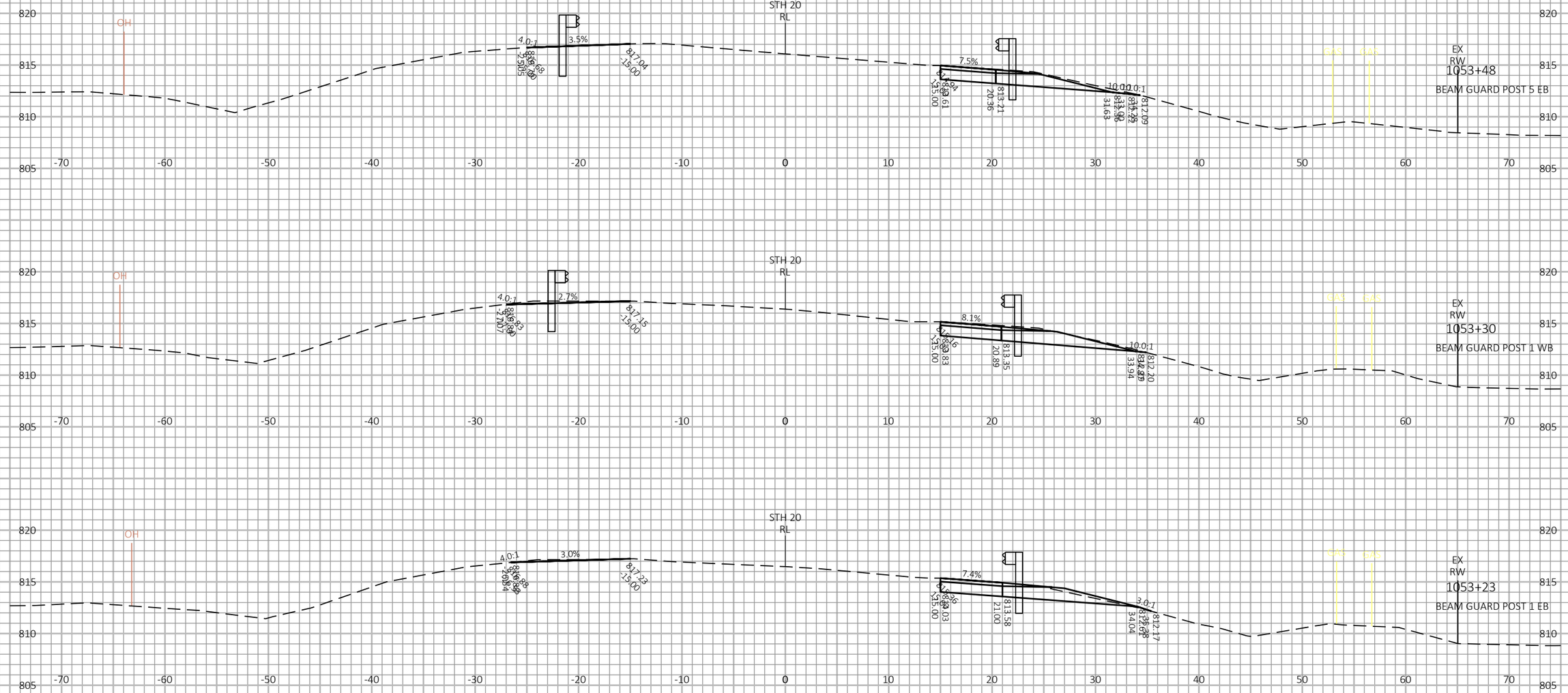
PLOT DATE : 8/31/2021 1:17 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090243-XS

PLOT DATE : 8/31/2021 1:18 PM

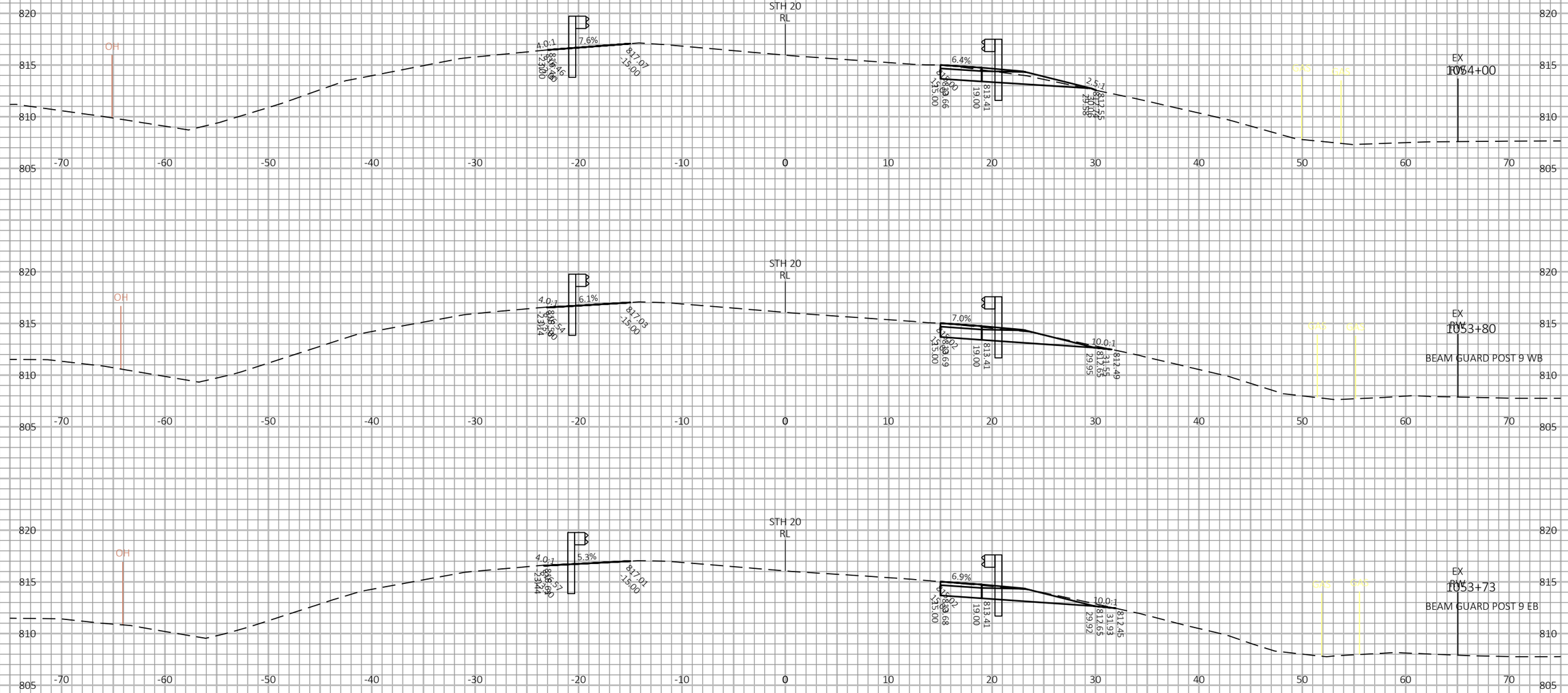
PLOT BY : GUENETTE, JEFFREY J

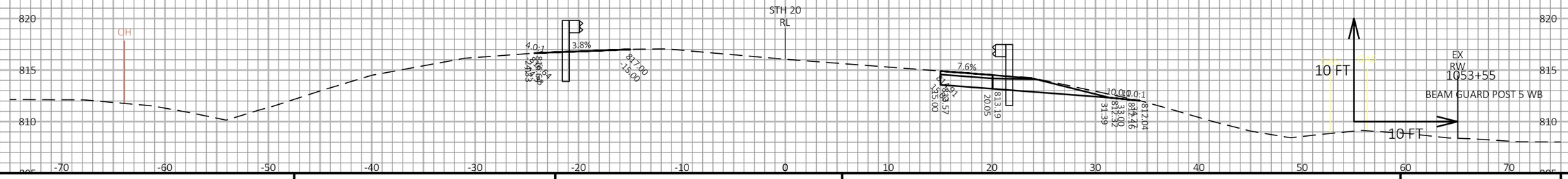
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_391

WISDOT/CADDS SHEET 49





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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_392

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090244-XS

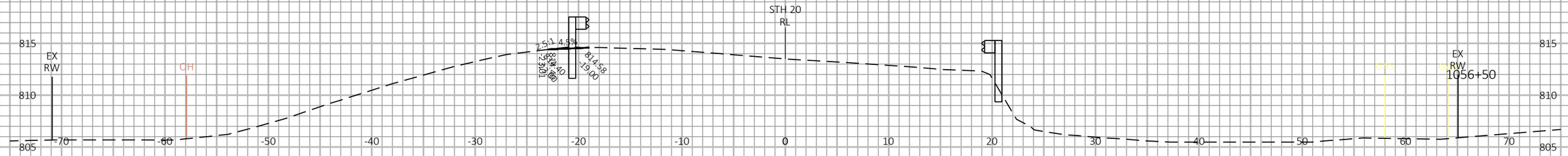
PLOT DATE : 8/31/2021 1:18 PM

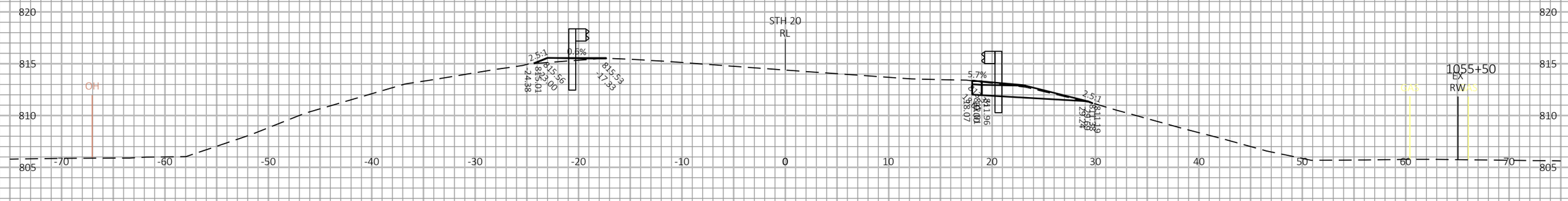
PLOT BY : GUENETTE, JEFFREY J

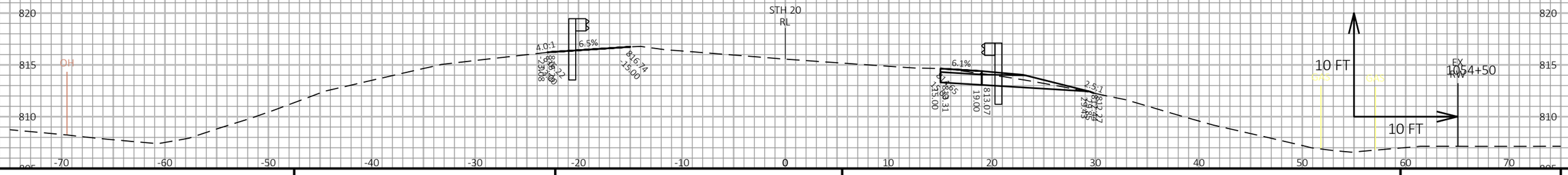
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_393

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090245-XS

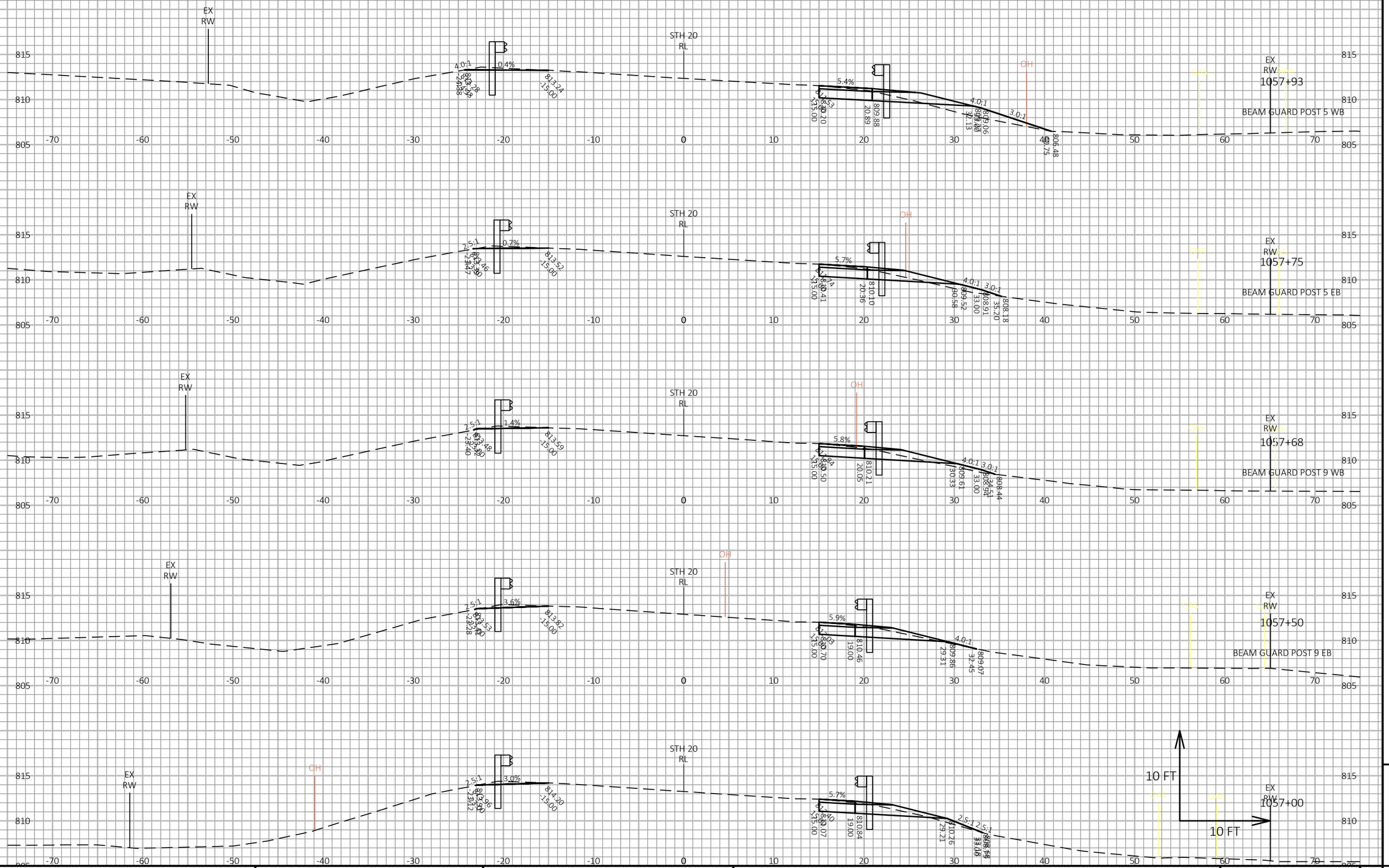
PLOT DATE : 8/31/2021 1:19 PM

PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_394

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090246-XS

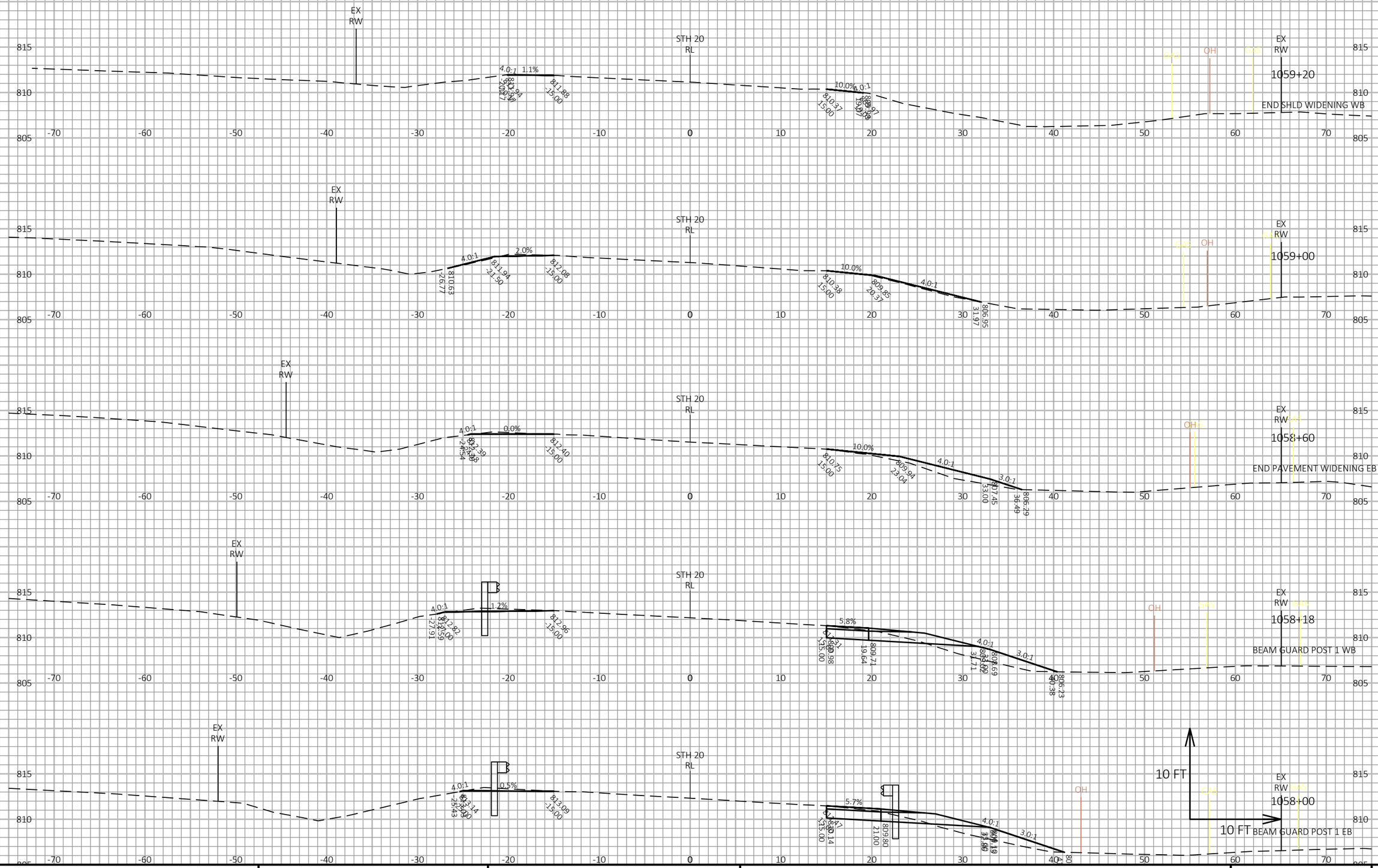
PLOT DATE : 8/31/2021 1:19 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_395

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090247-XS

PLOT DATE : 8/31/2021 1:20 PM

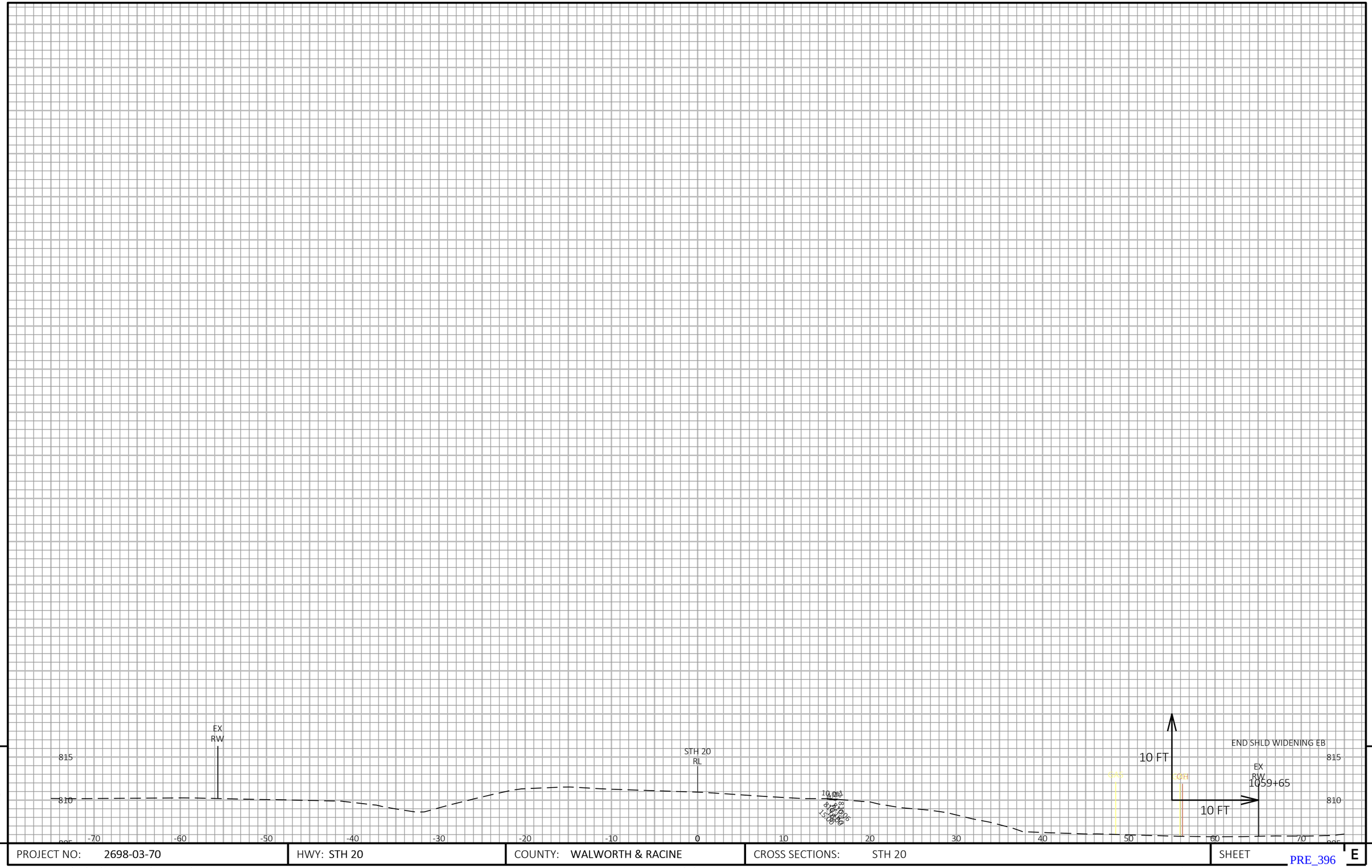
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



9 9

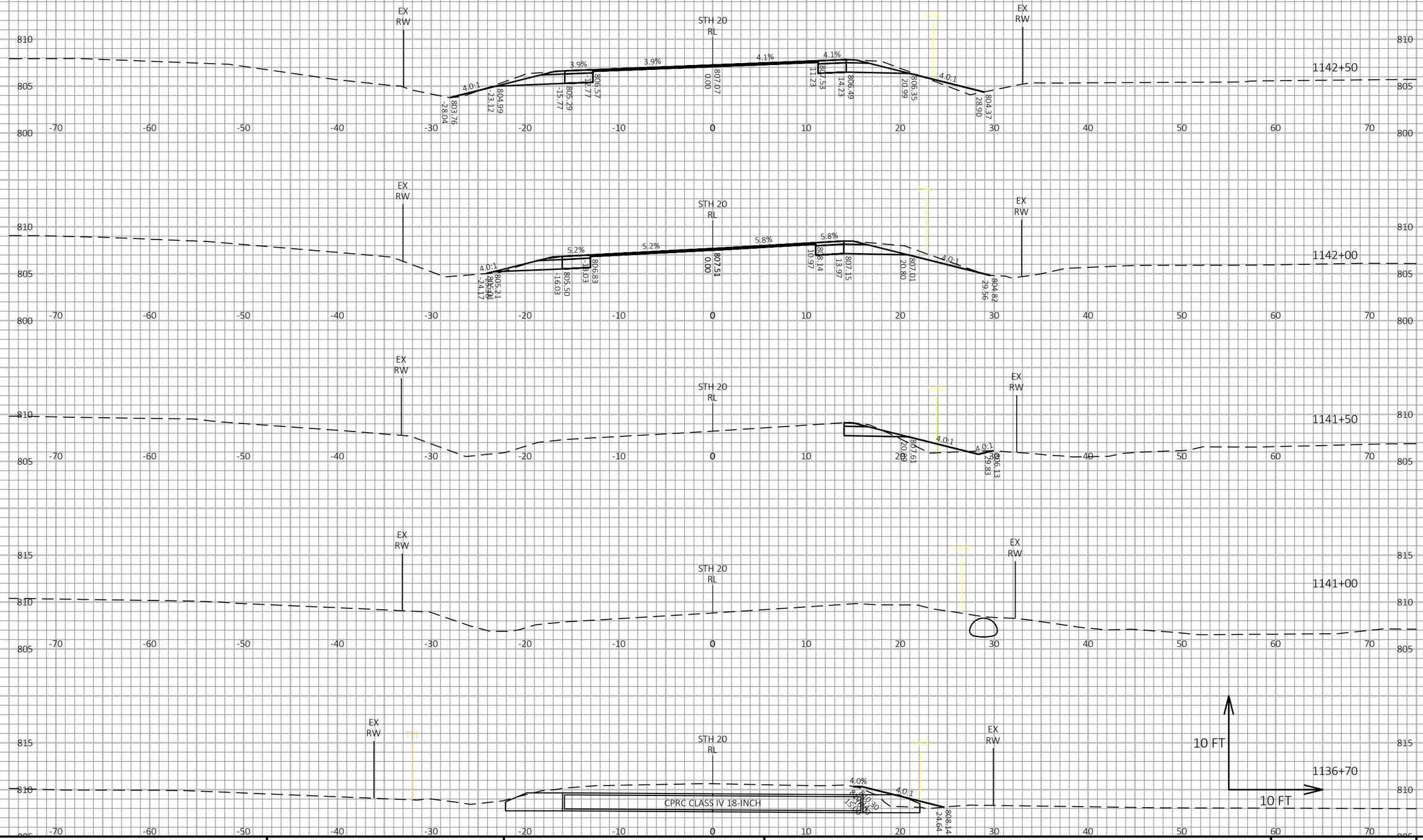
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_396

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090248-XS

PLOT DATE : 8/31/2021 1:21 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090249-XS

PLOT DATE : 8/31/2021 1:22 PM

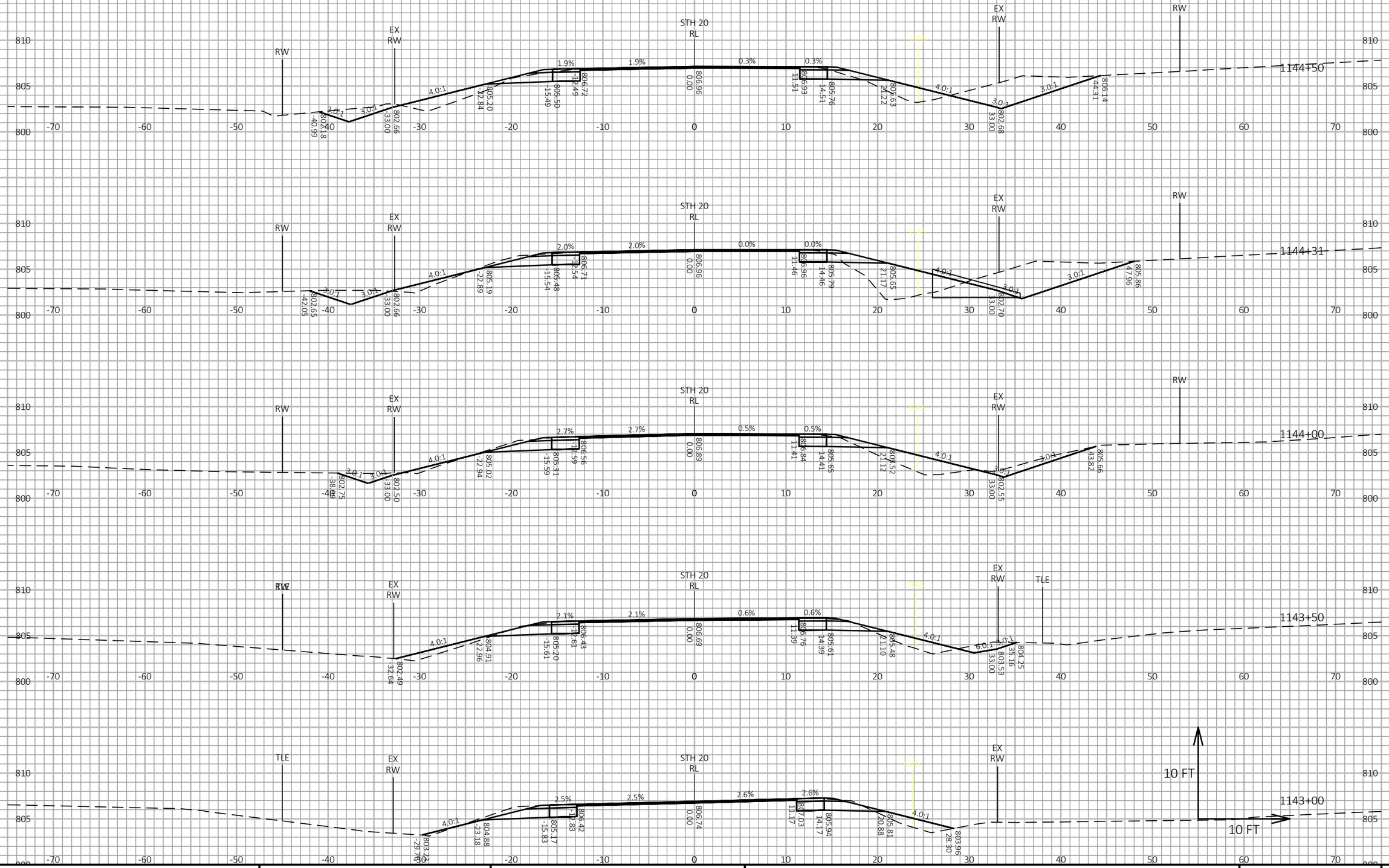
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_397

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_398

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090250-XS

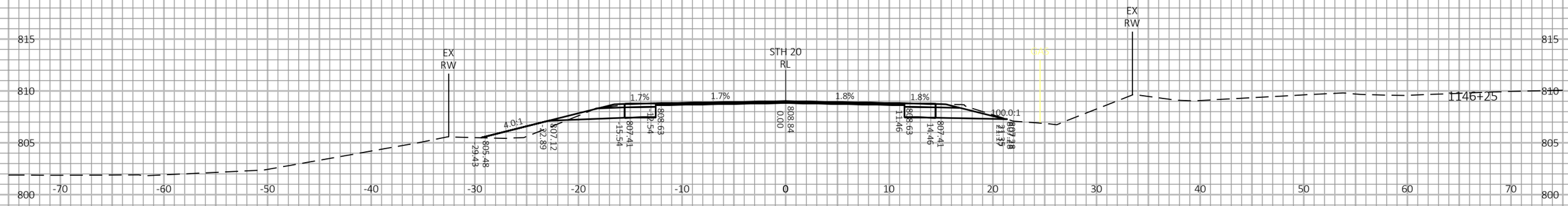
PLOT DATE : 8/31/2021 1:22 PM

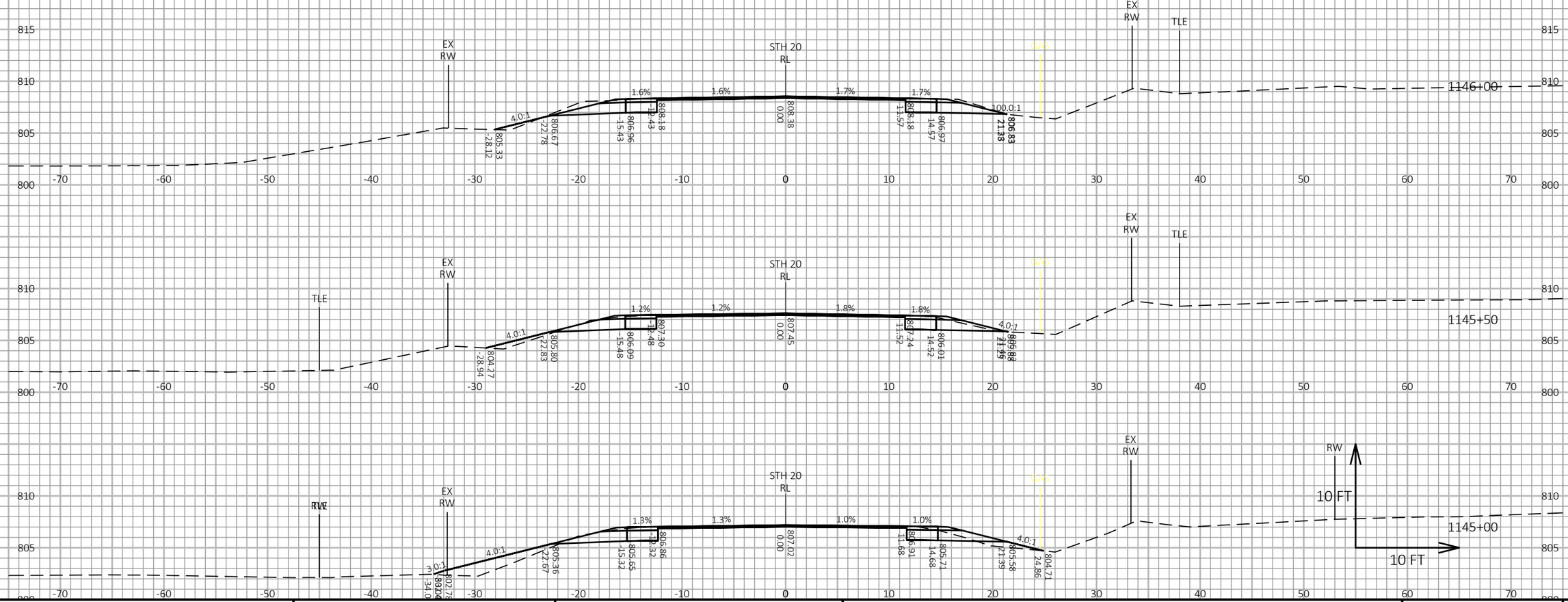
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_399

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090251-XS

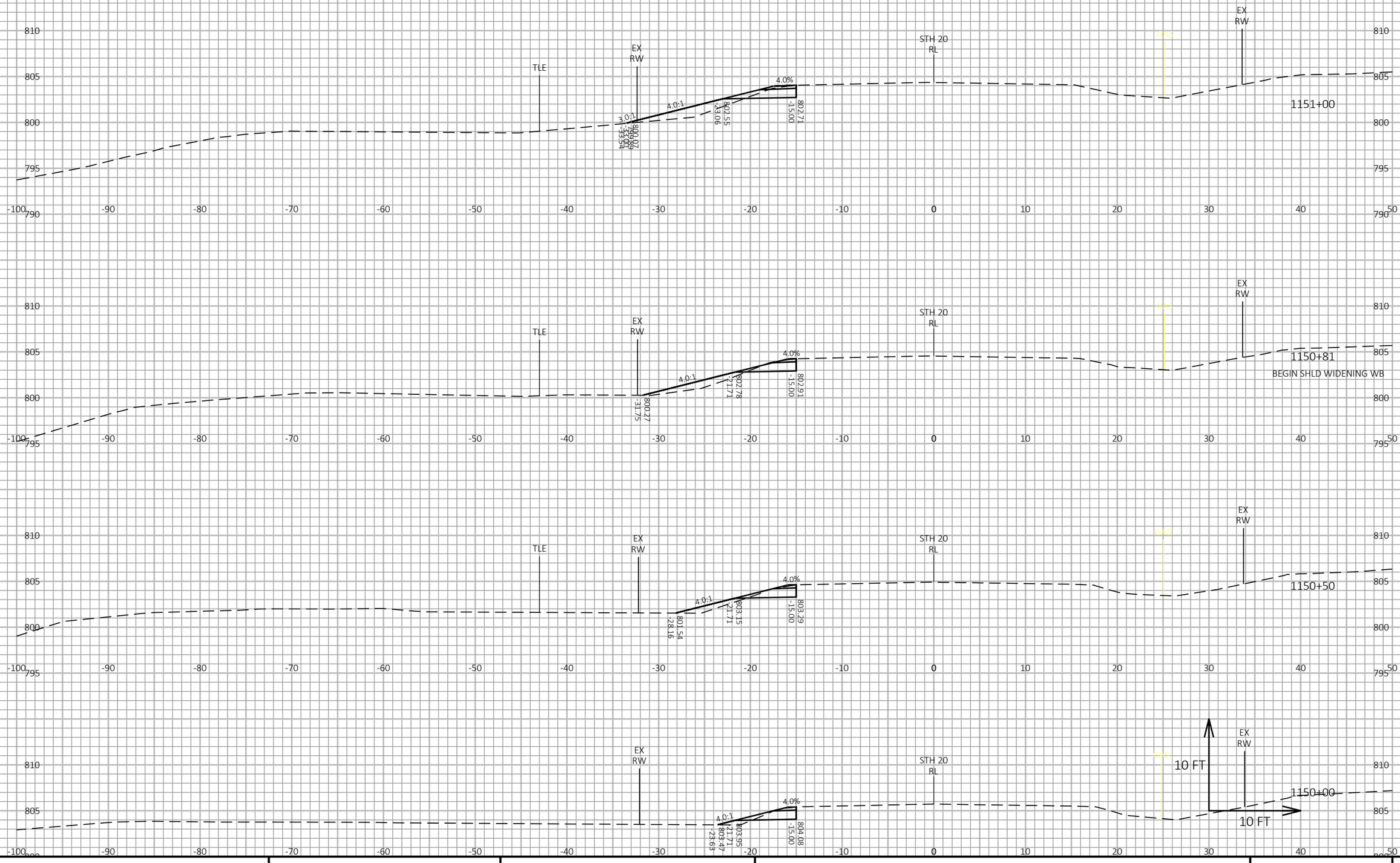
PLOT DATE : 8/31/2021 1:23 PM

PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090252-XS

PLOT DATE : 8/31/2021 1:24 PM

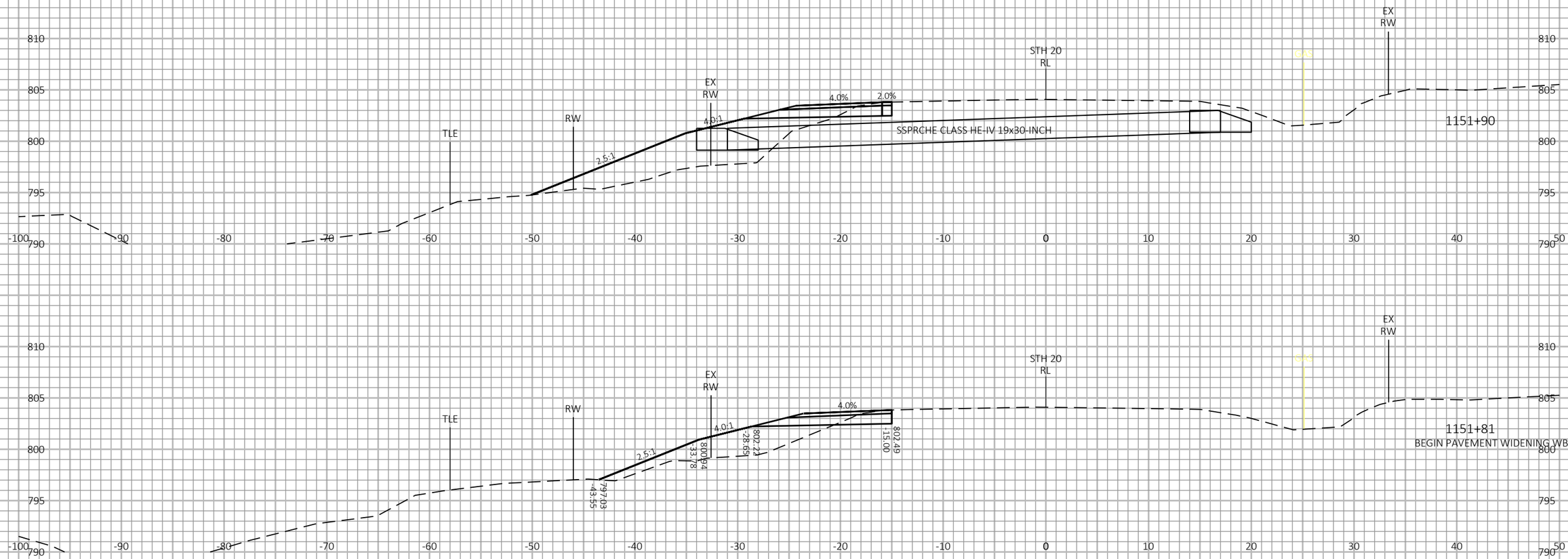
PLOT BY : GUENETTE, JEFFREY J

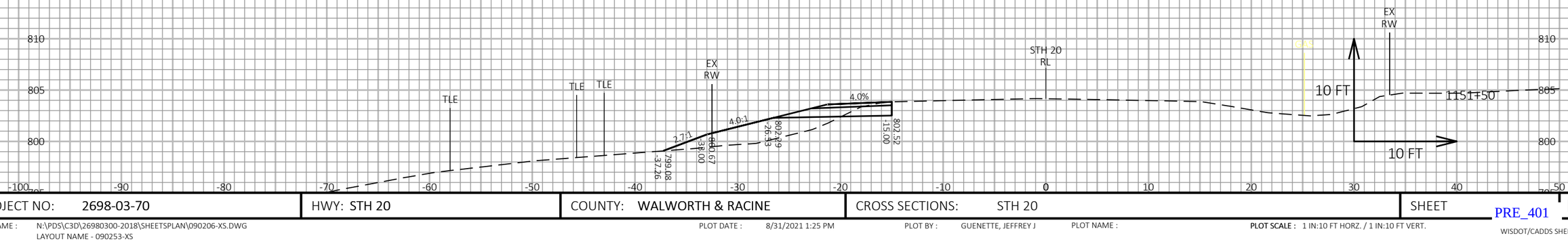
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_400

WISDOT/CADDS SHEET 49





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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_401

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090253-XS

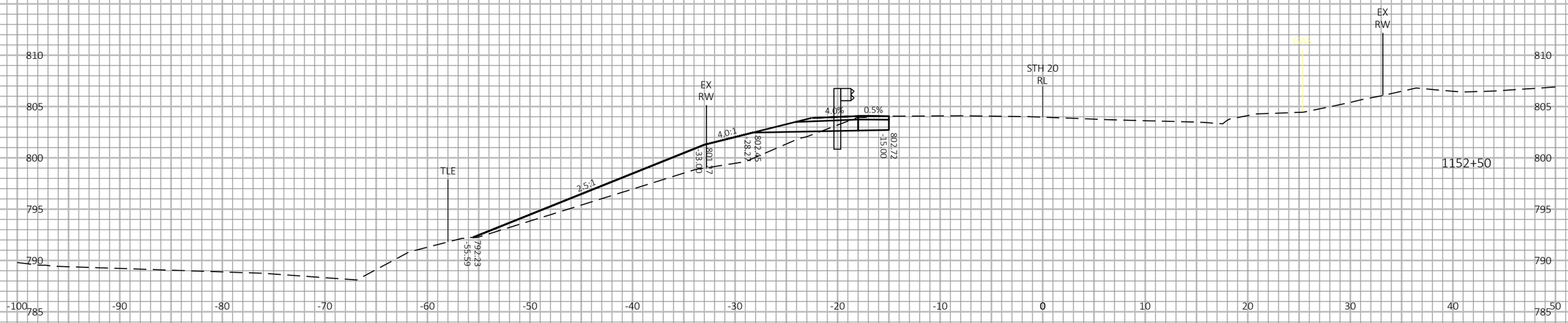
PLOT DATE : 8/31/2021 1:25 PM

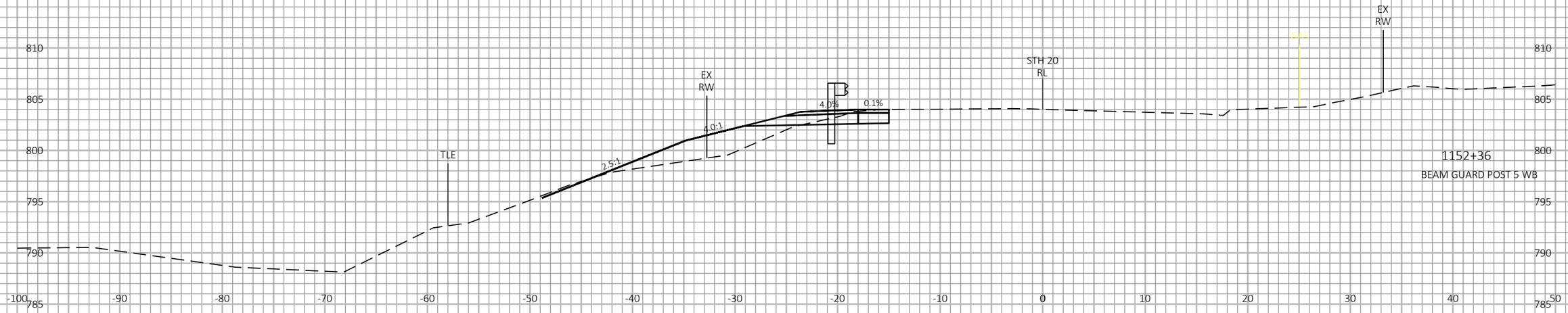
PLOT BY : GUENETTE, JEFFREY J

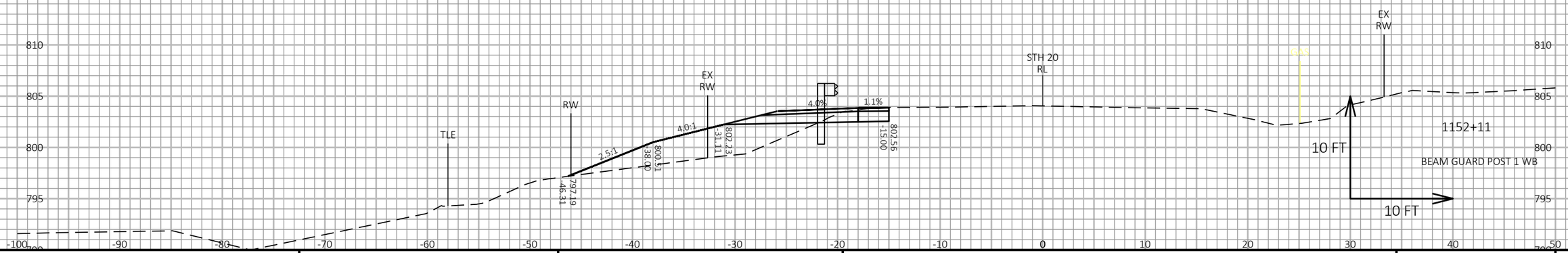
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET

PRE_402

E

9

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090254-XS

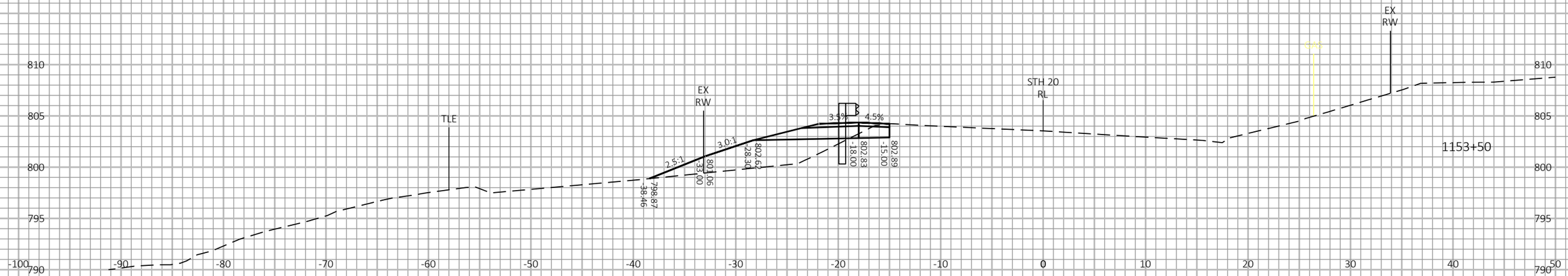
PLOT DATE : 8/31/2021 1:26 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090255-XS

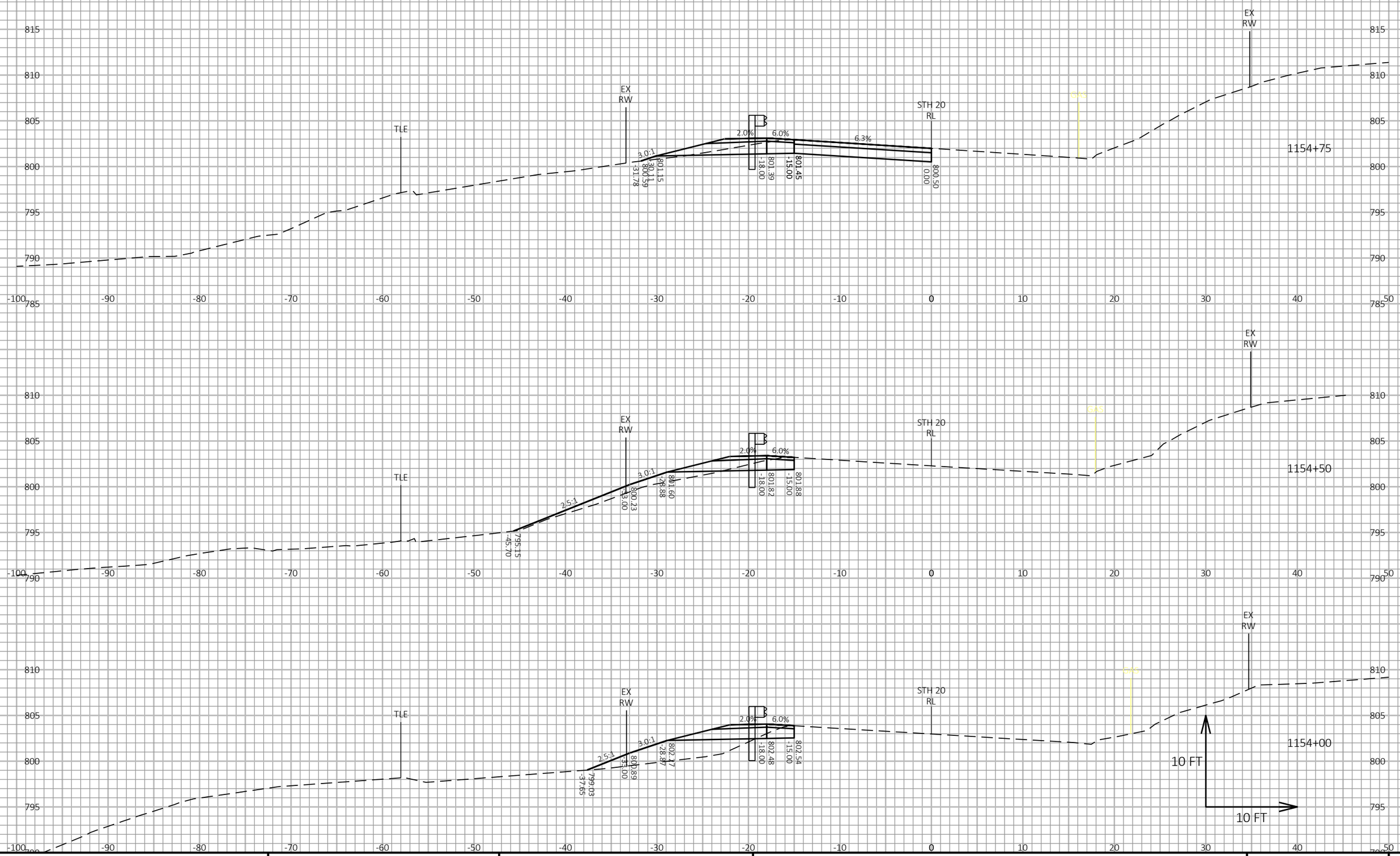
PLOT DATE : 8/31/2021 1:26 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME : PRE_403

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090256-XS

PLOT DATE : 8/31/2021 1:27 PM

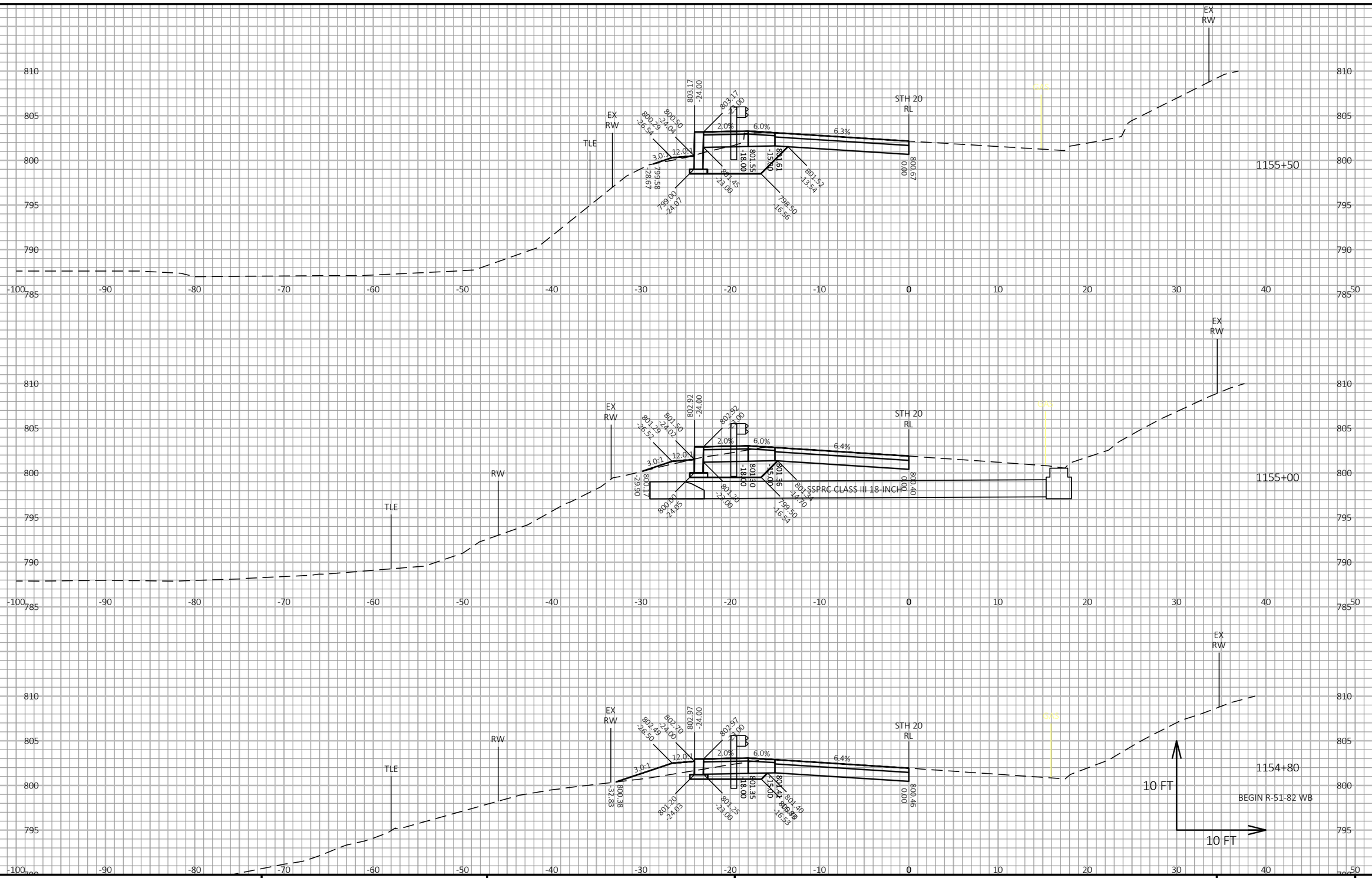
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_404

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_405

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090257-XS

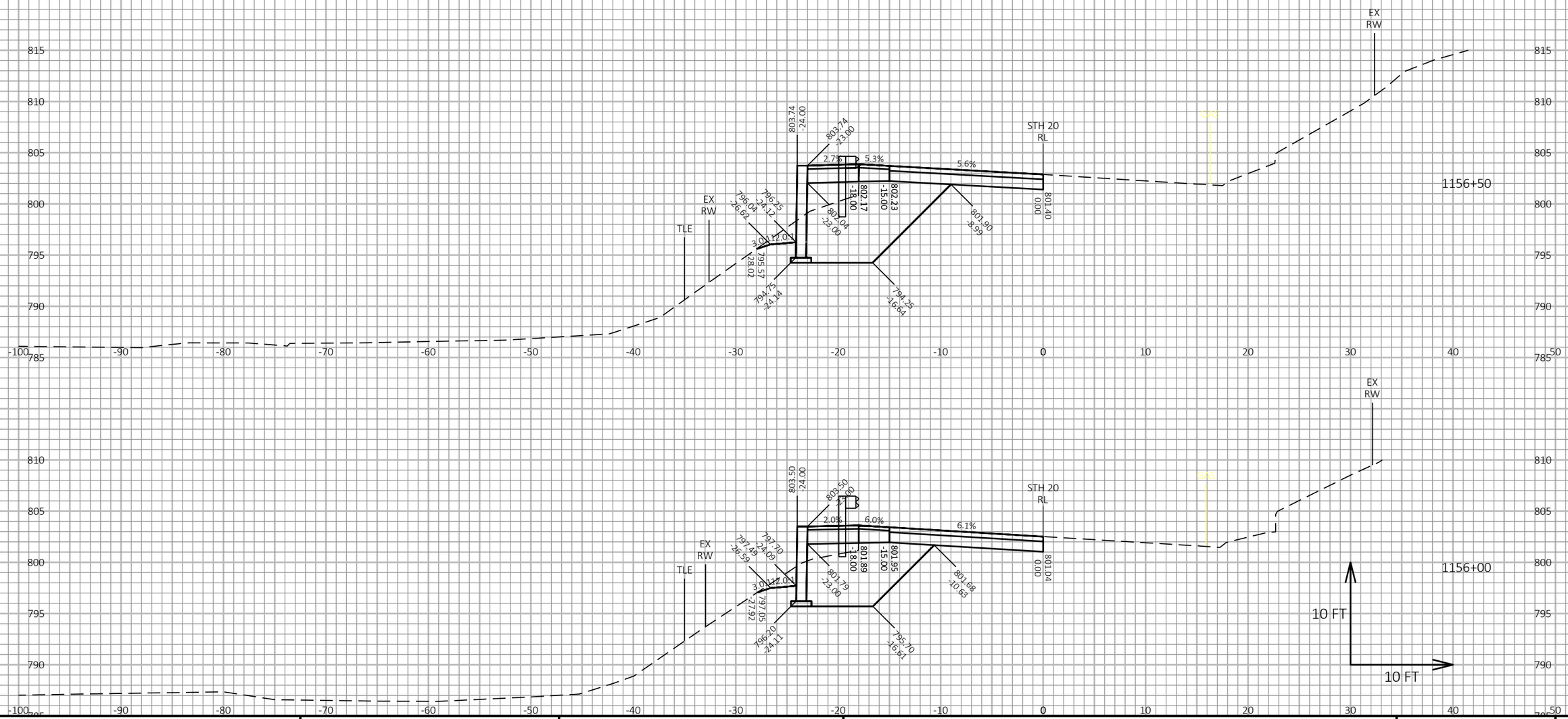
PLOT DATE : 8/31/2021 1:28 PM

PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_406

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090258-XS

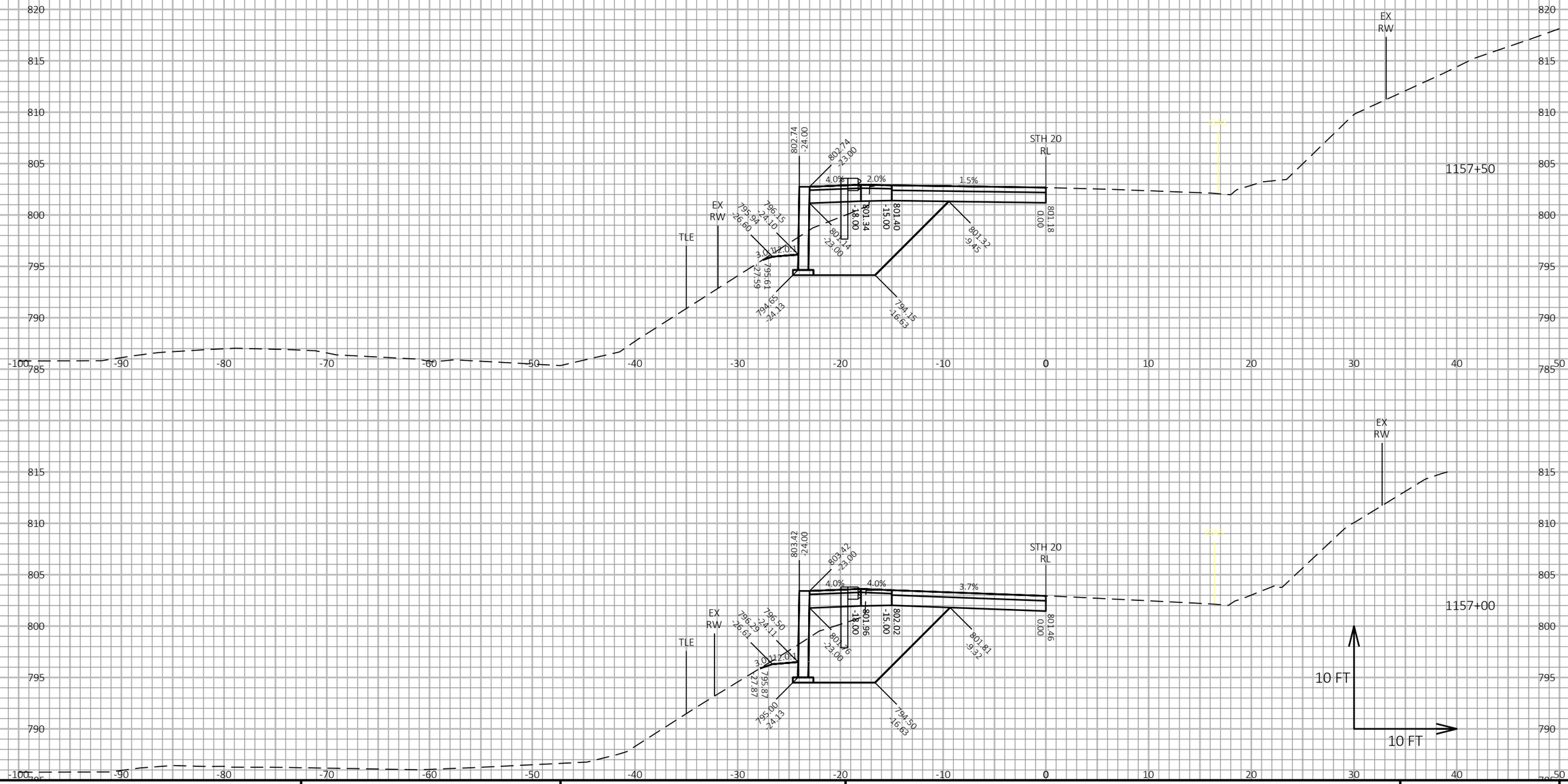
PLOT DATE : 8/31/2021 1:28 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_407

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090259-XS

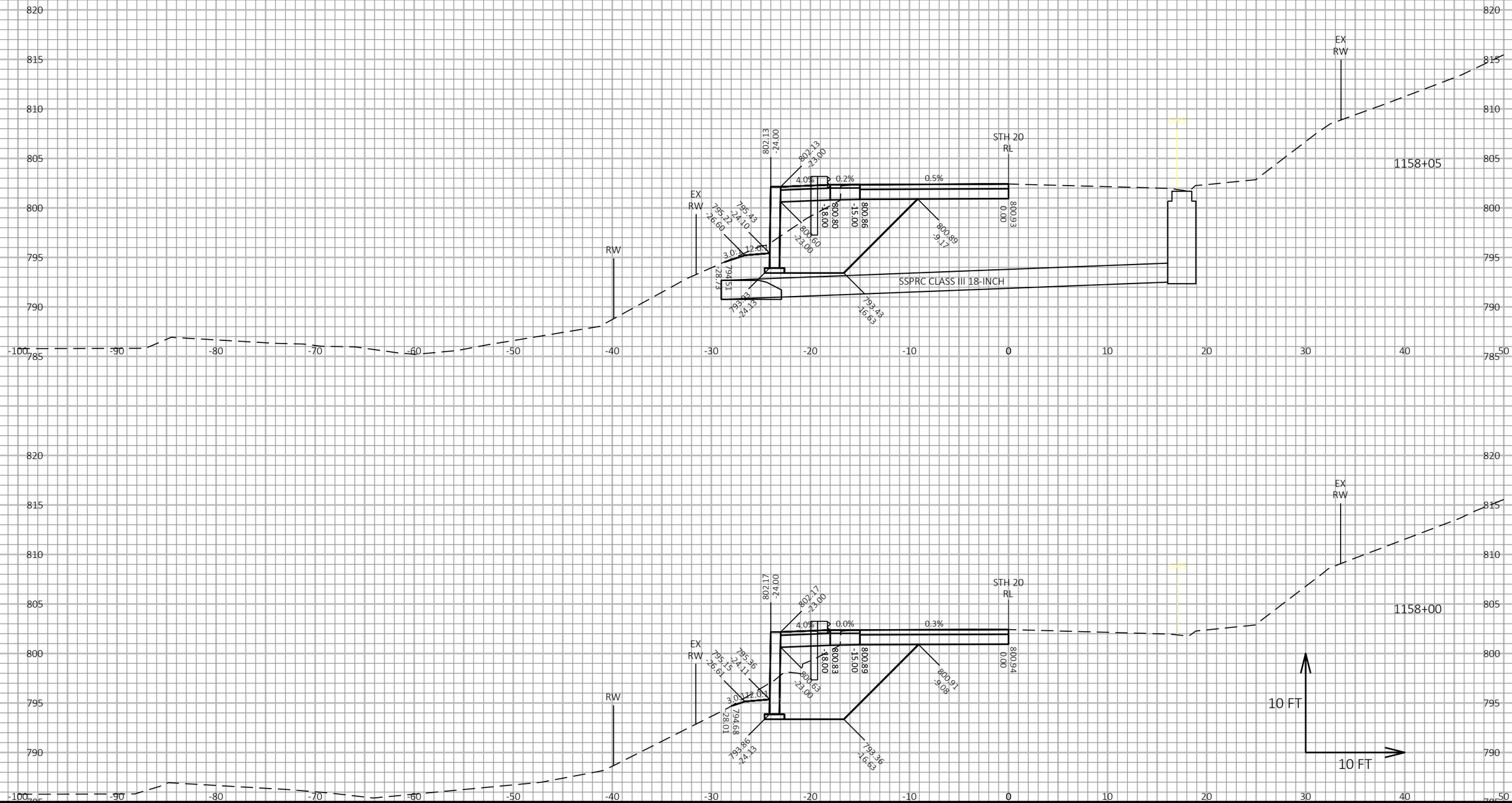
PLOT DATE : 8/31/2021 1:29 PM

PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_408

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090260-XS

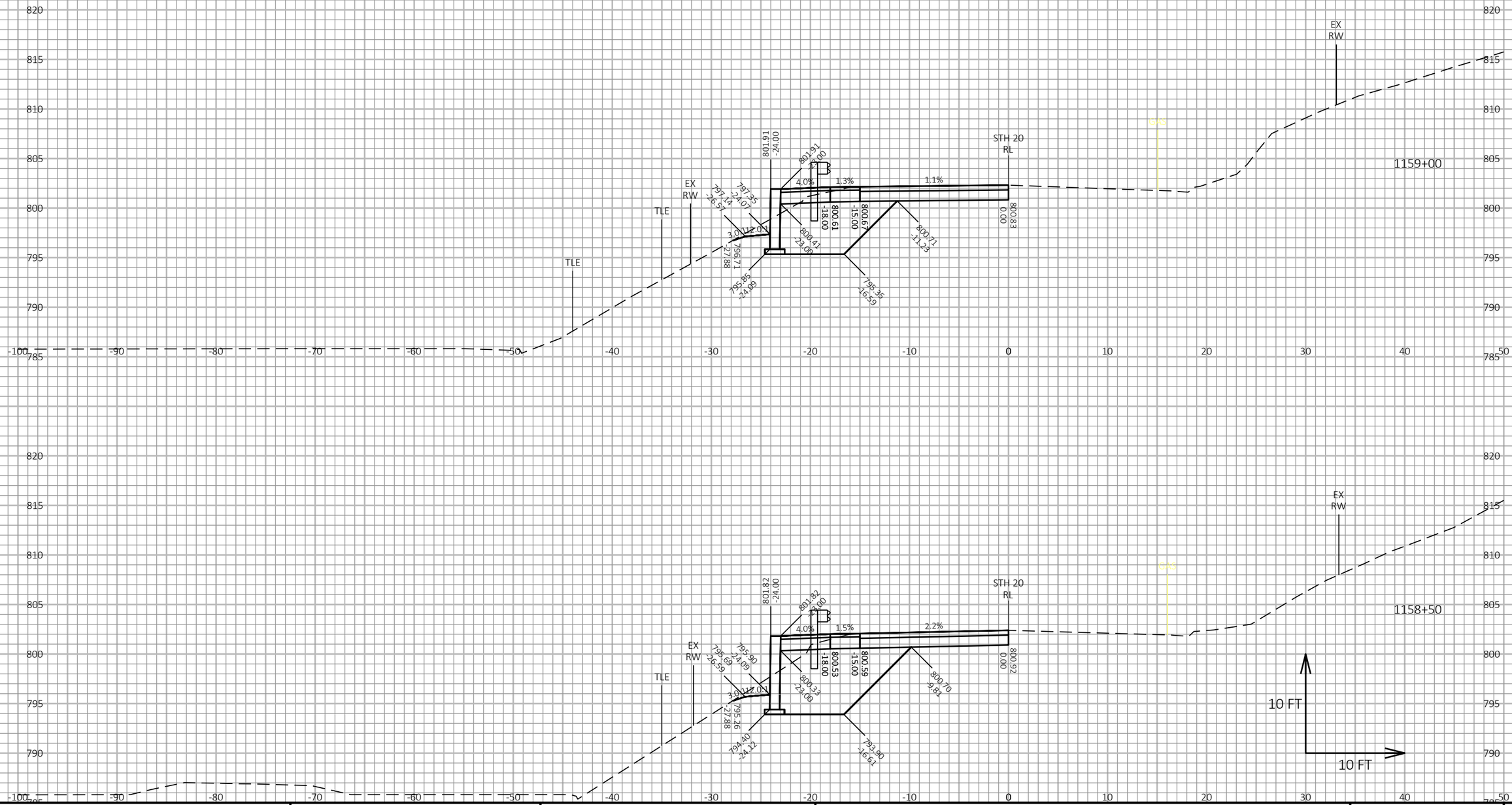
PLOT DATE : 8/31/2021 1:29 PM

PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090261-XS

PLOT DATE : 8/31/2021 1:30 PM

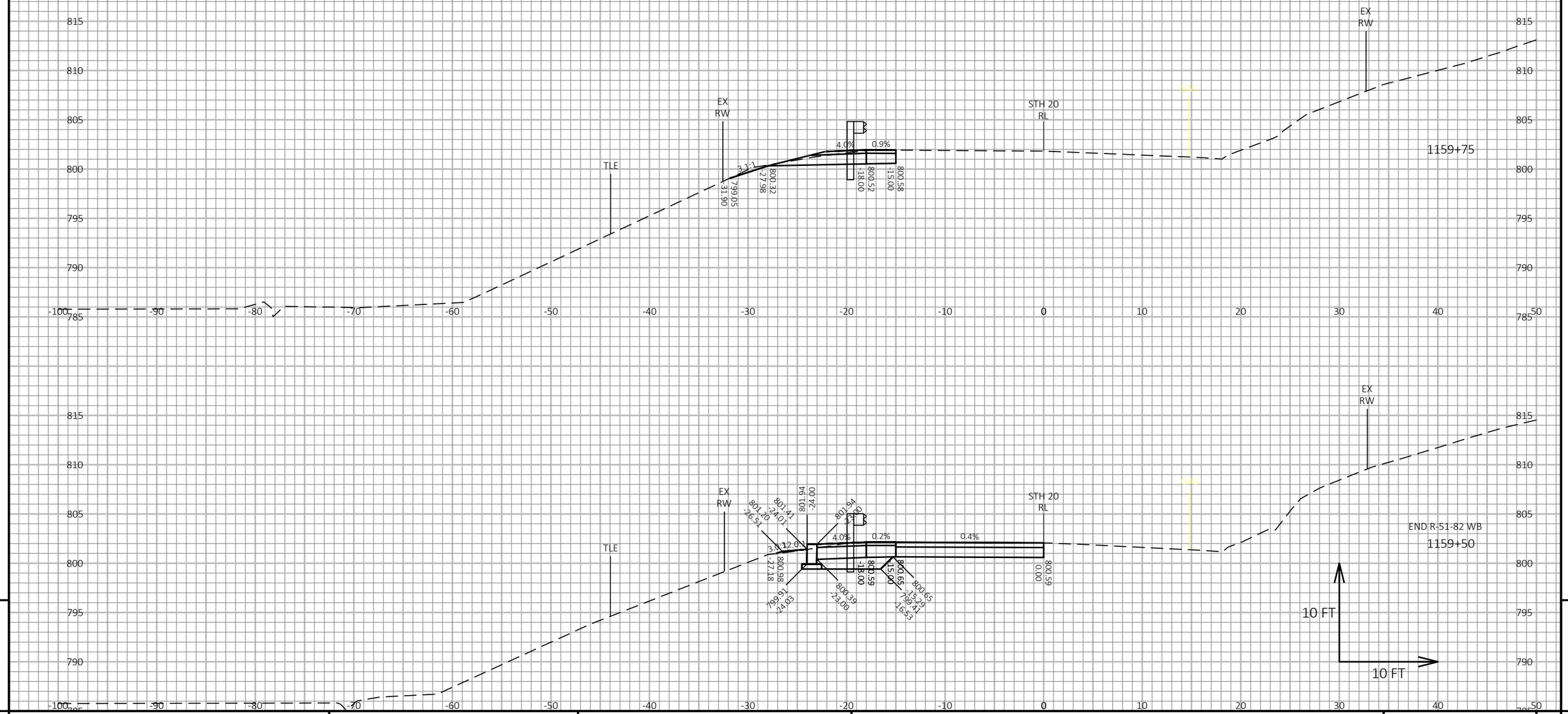
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_409

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090262-XS

PLOT DATE : 8/31/2021 1:31 PM

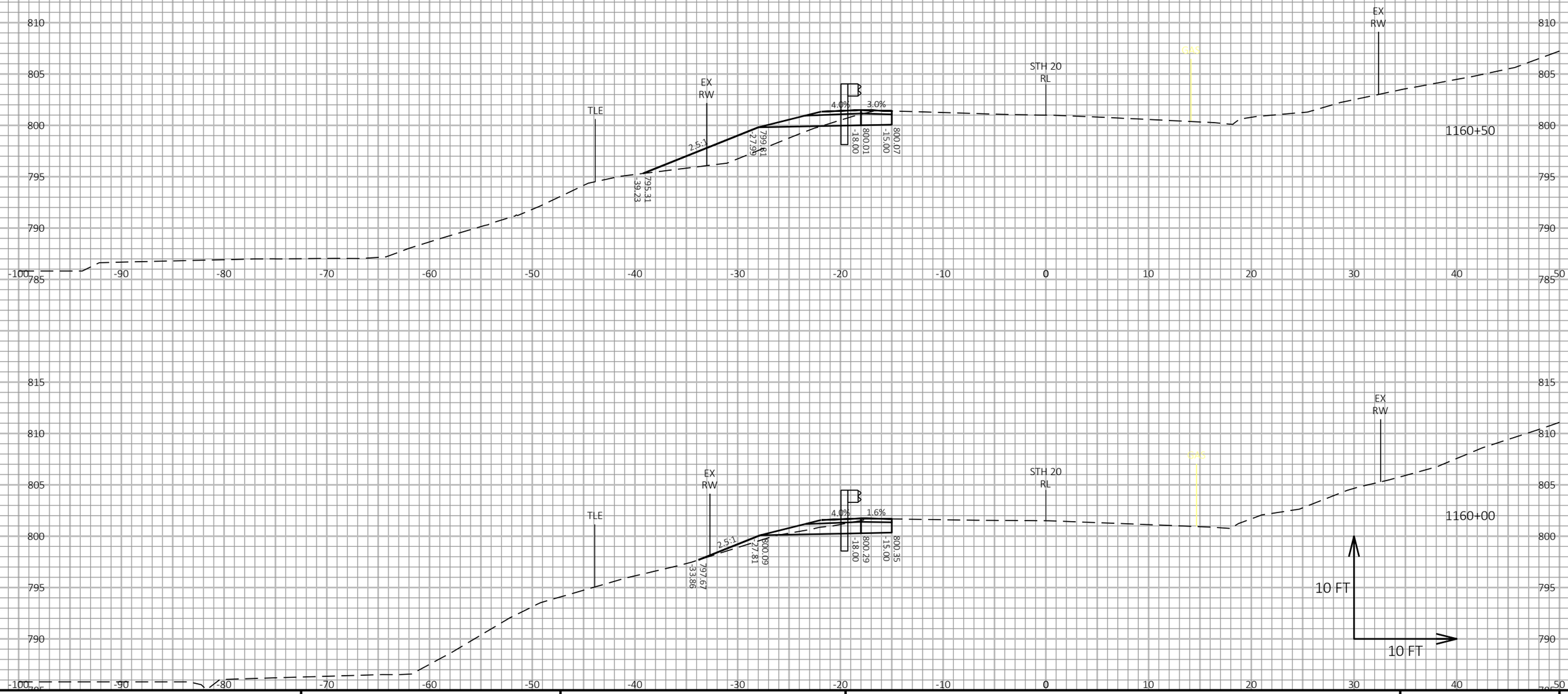
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_410

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_411

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090263-XS

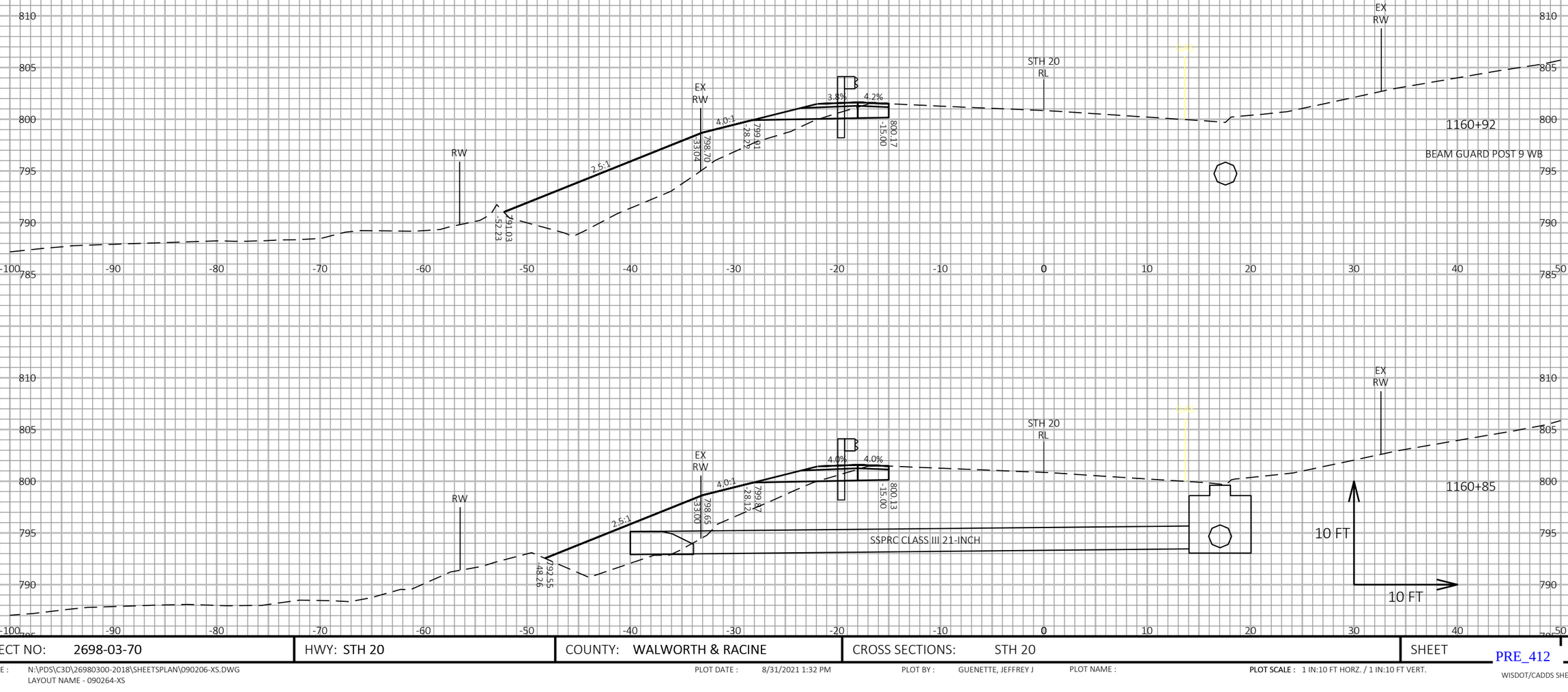
PLOT DATE : 8/31/2021 1:31 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_412

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090264-XS

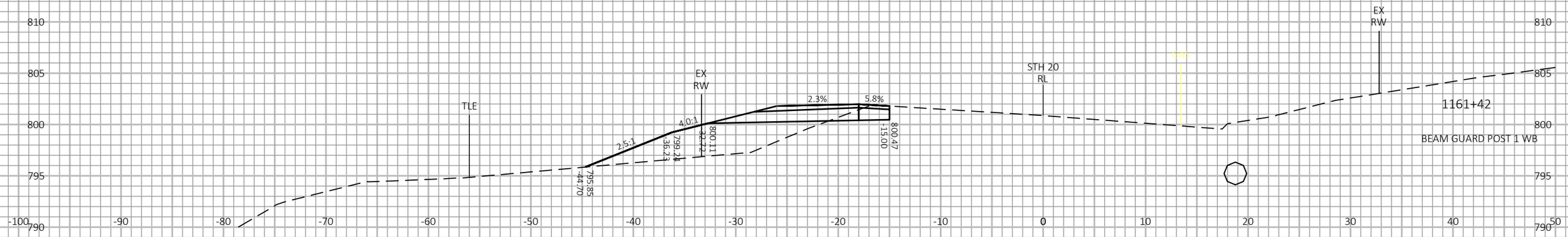
PLOT DATE : 8/31/2021 1:32 PM

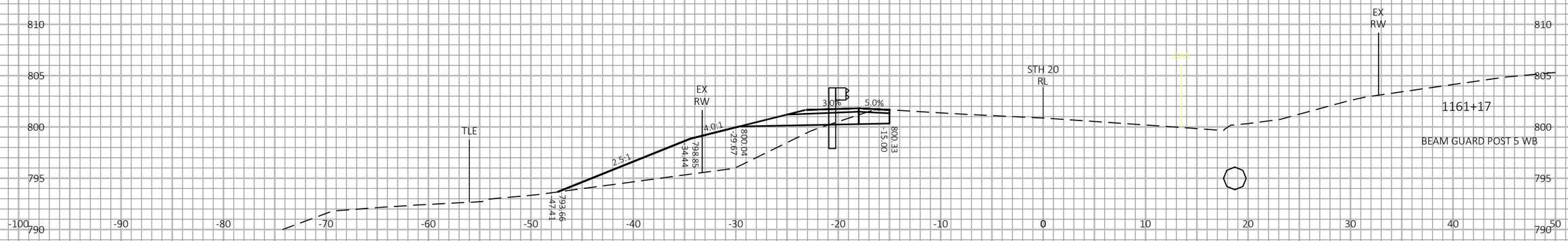
PLOT BY : GUENETTE, JEFFREY J

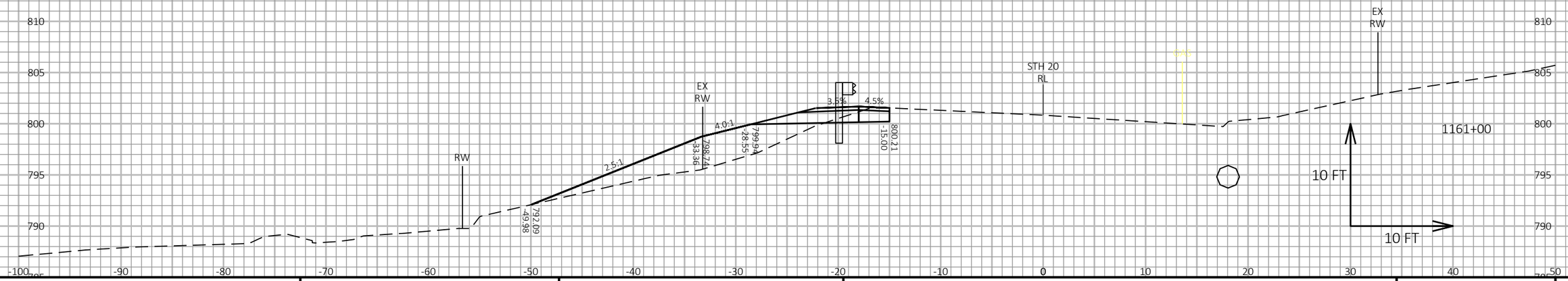
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_413

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090265-XS

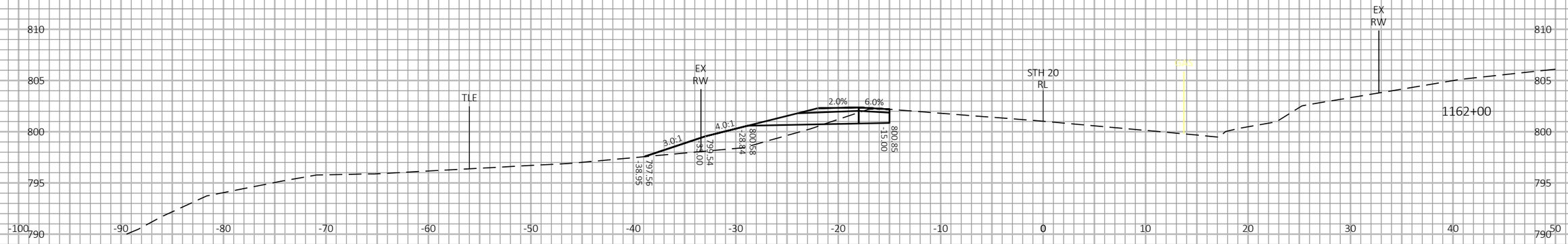
PLOT DATE : 8/31/2021 1:33 PM

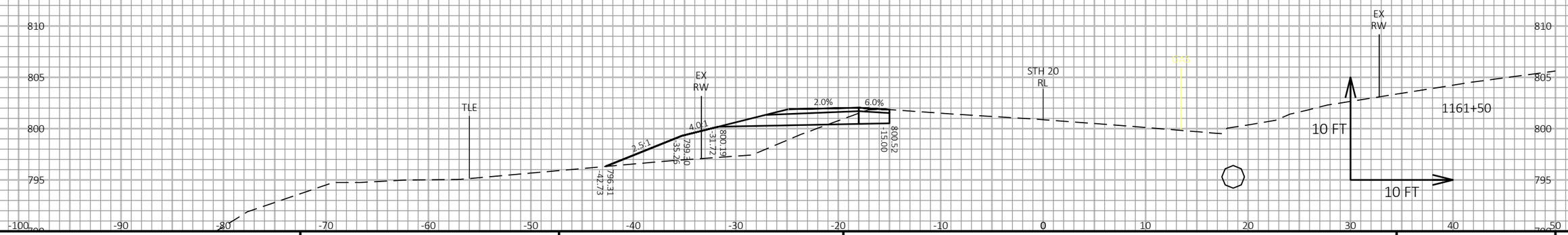
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_414

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090266-XS

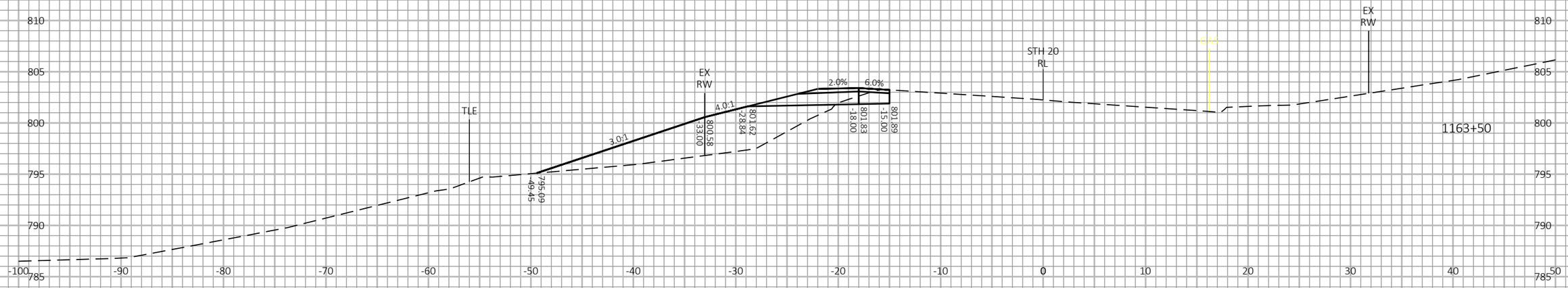
PLOT DATE : 8/31/2021 1:33 PM

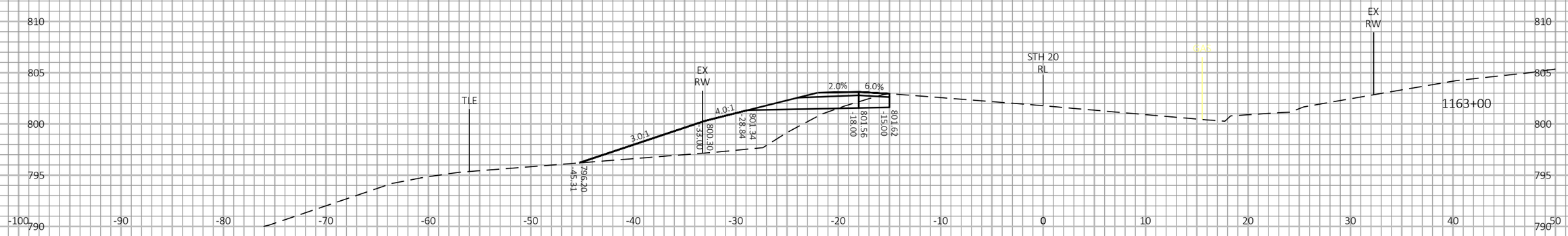
PLOT BY : GUENETTE, JEFFREY J

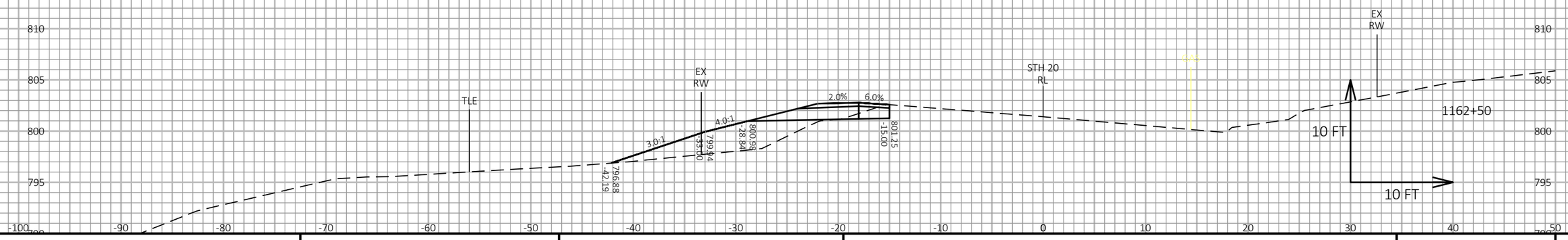
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_415

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090267-XS

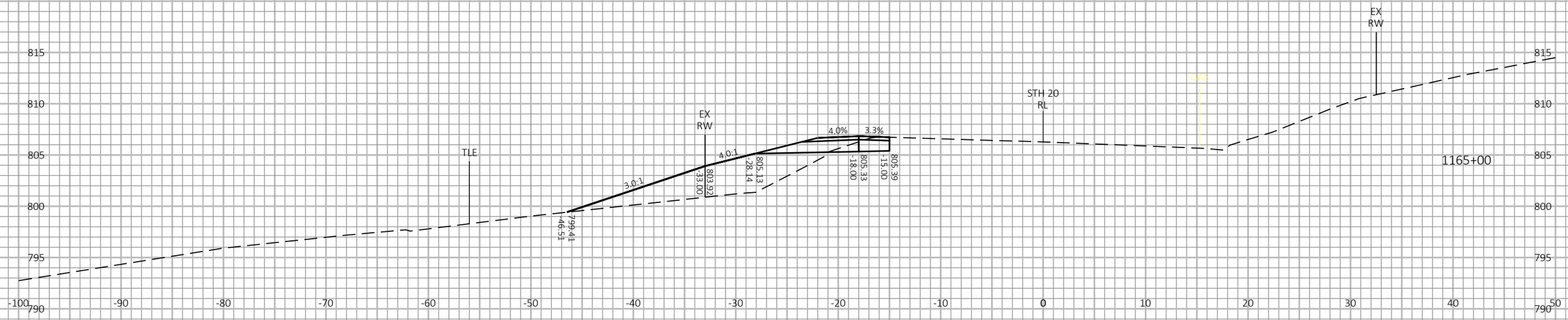
PLOT DATE : 8/31/2021 1:34 PM

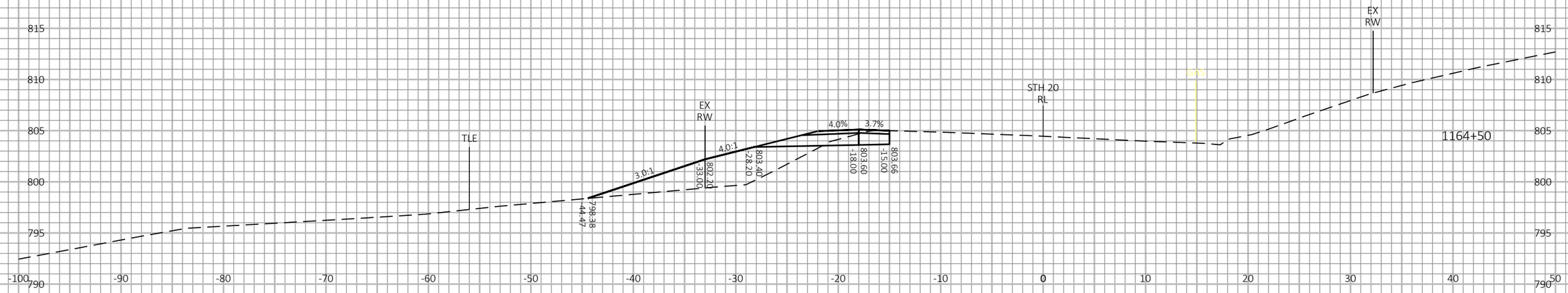
PLOT BY : GUENETTE, JEFFREY J

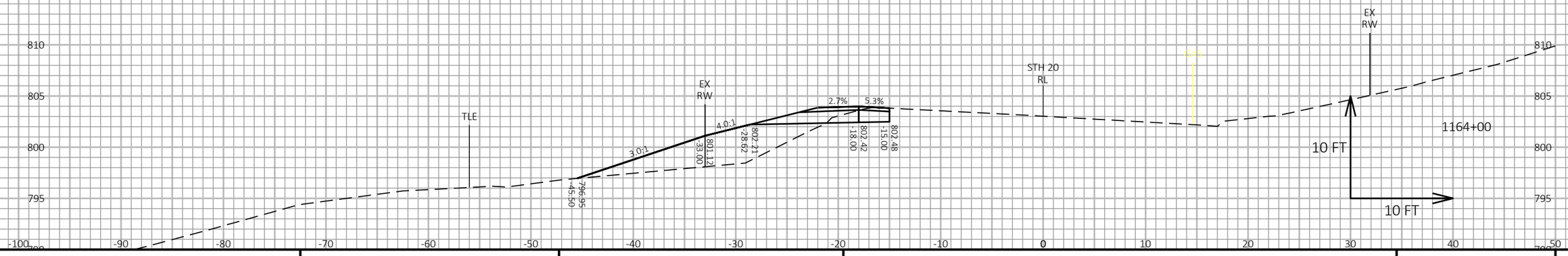
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_416

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090268-XS

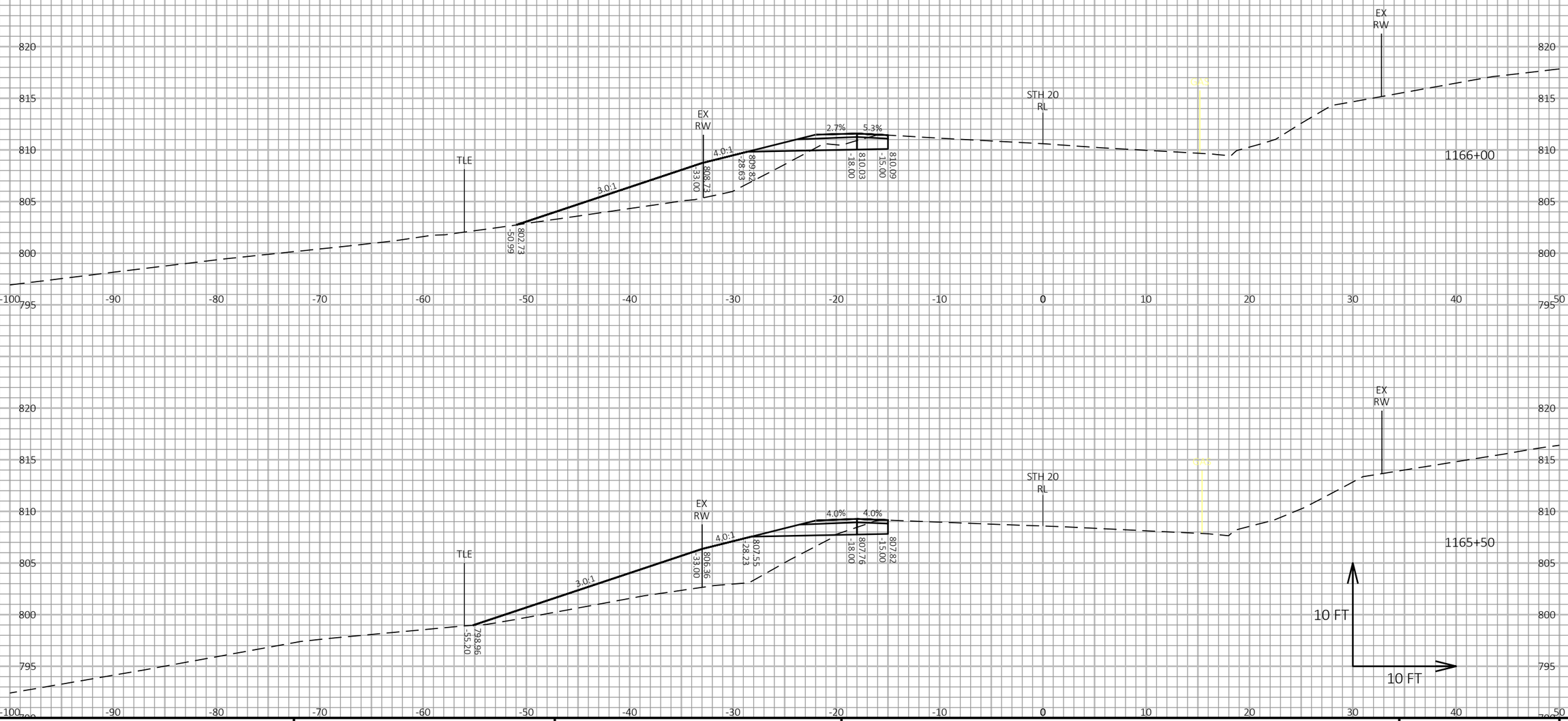
PLOT DATE : 8/31/2021 1:35 PM

PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_417

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090269-XS

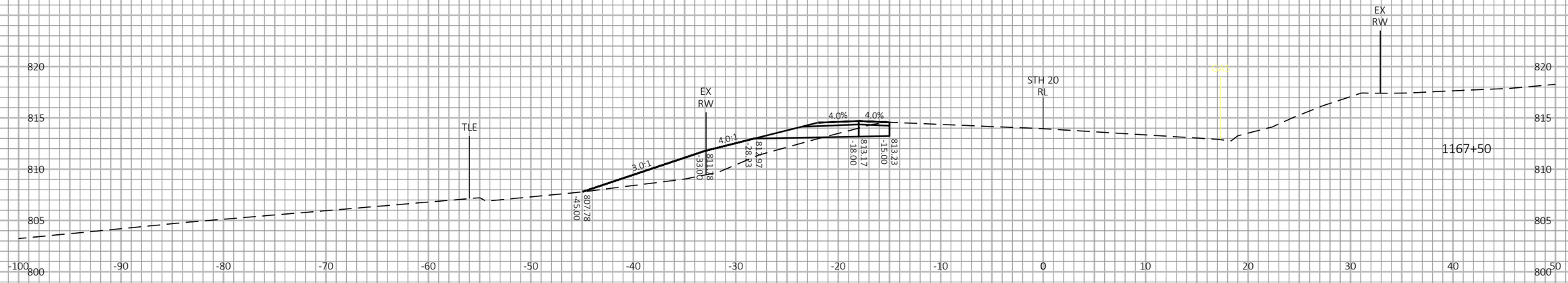
PLOT DATE : 8/31/2021 1:35 PM

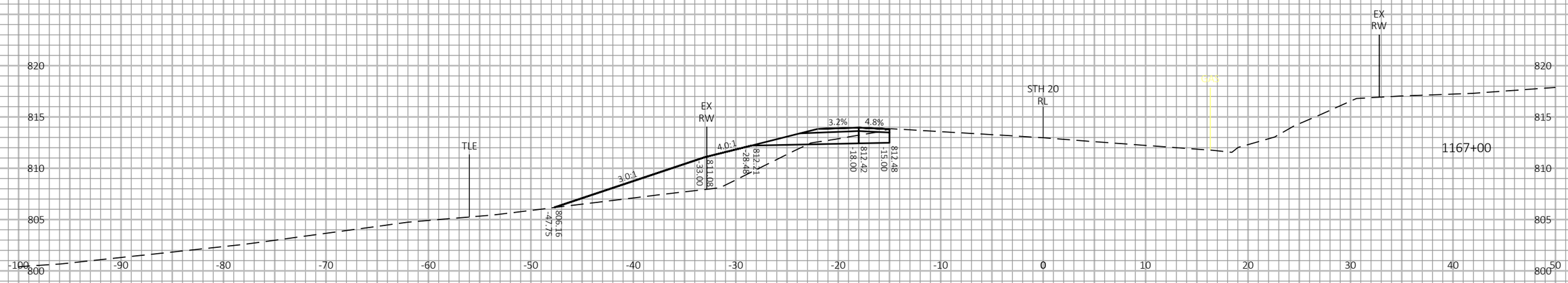
PLOT BY : GUENETTE, JEFFREY J

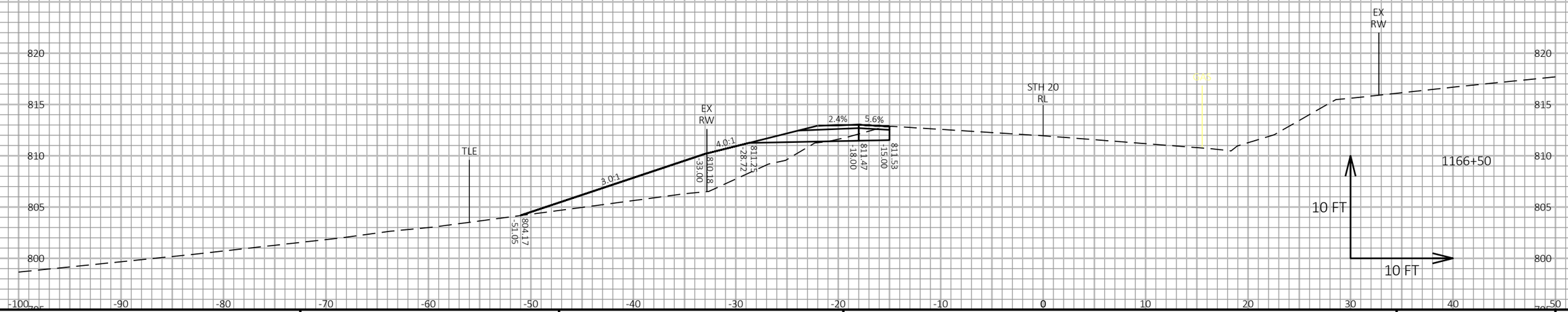
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_418

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090270-XS

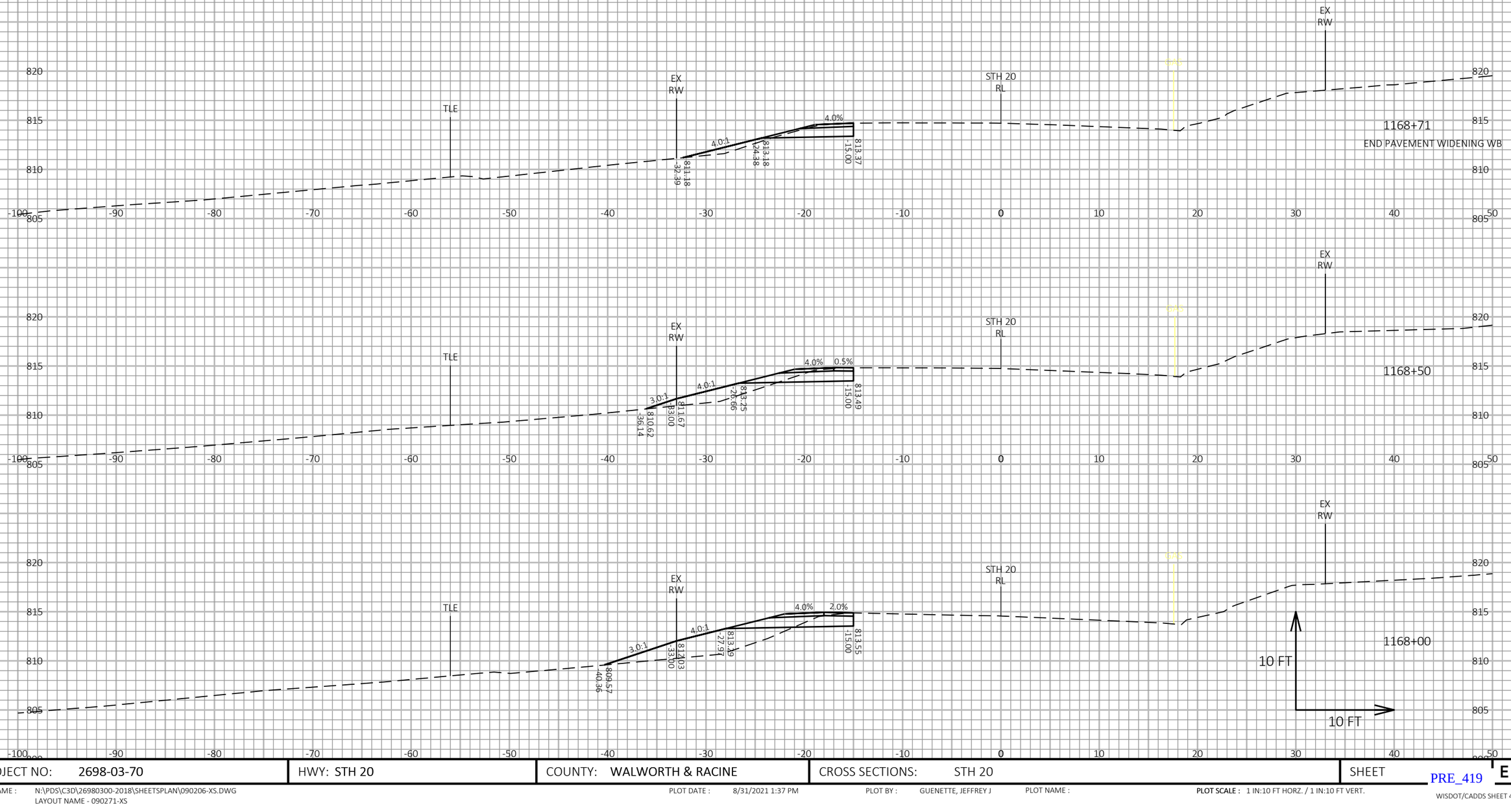
PLOT DATE : 8/31/2021 1:36 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET

PRE_419

E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090271-XS

PLOT DATE : 8/31/2021 1:37 PM

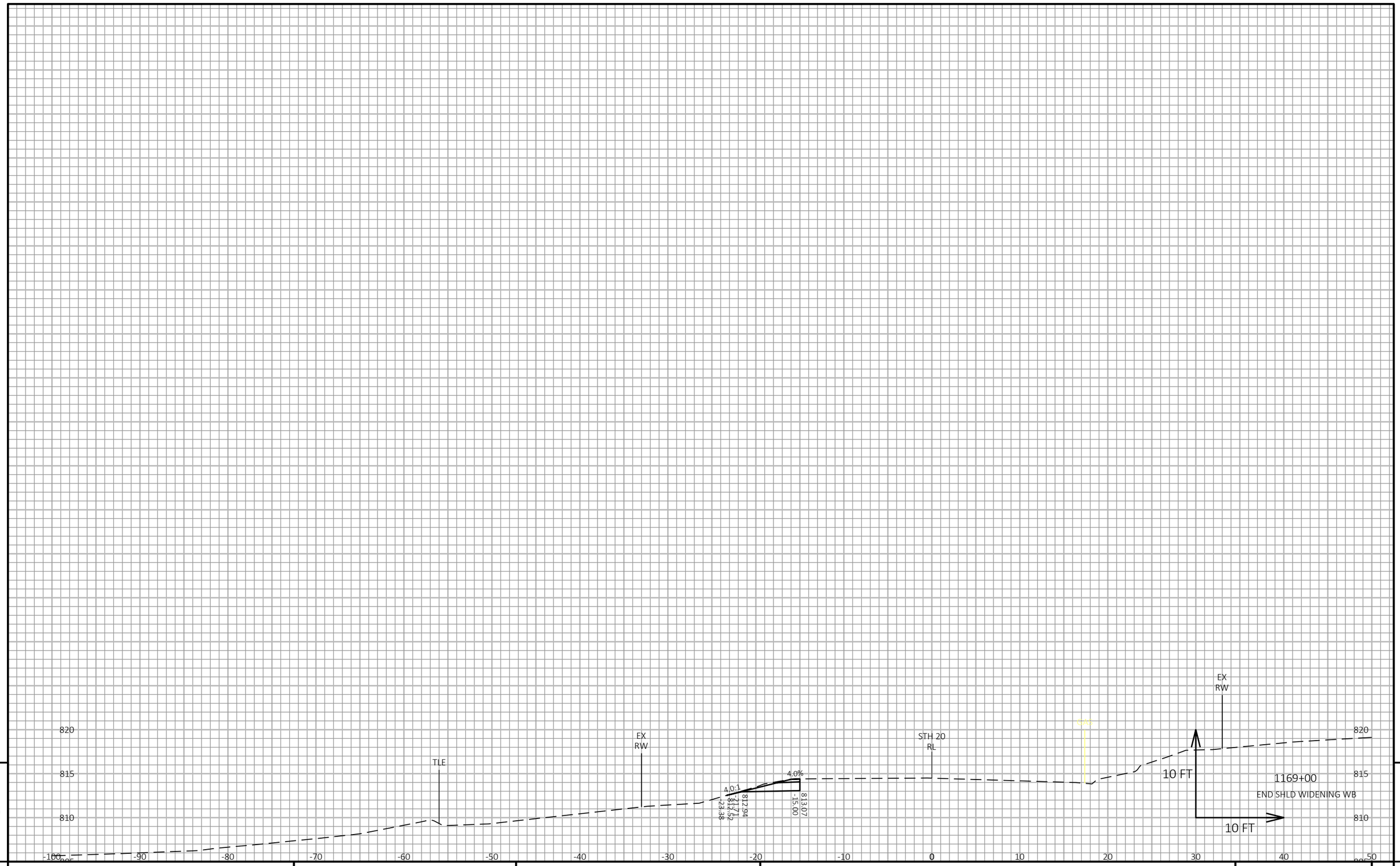
PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_420

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090272-XS

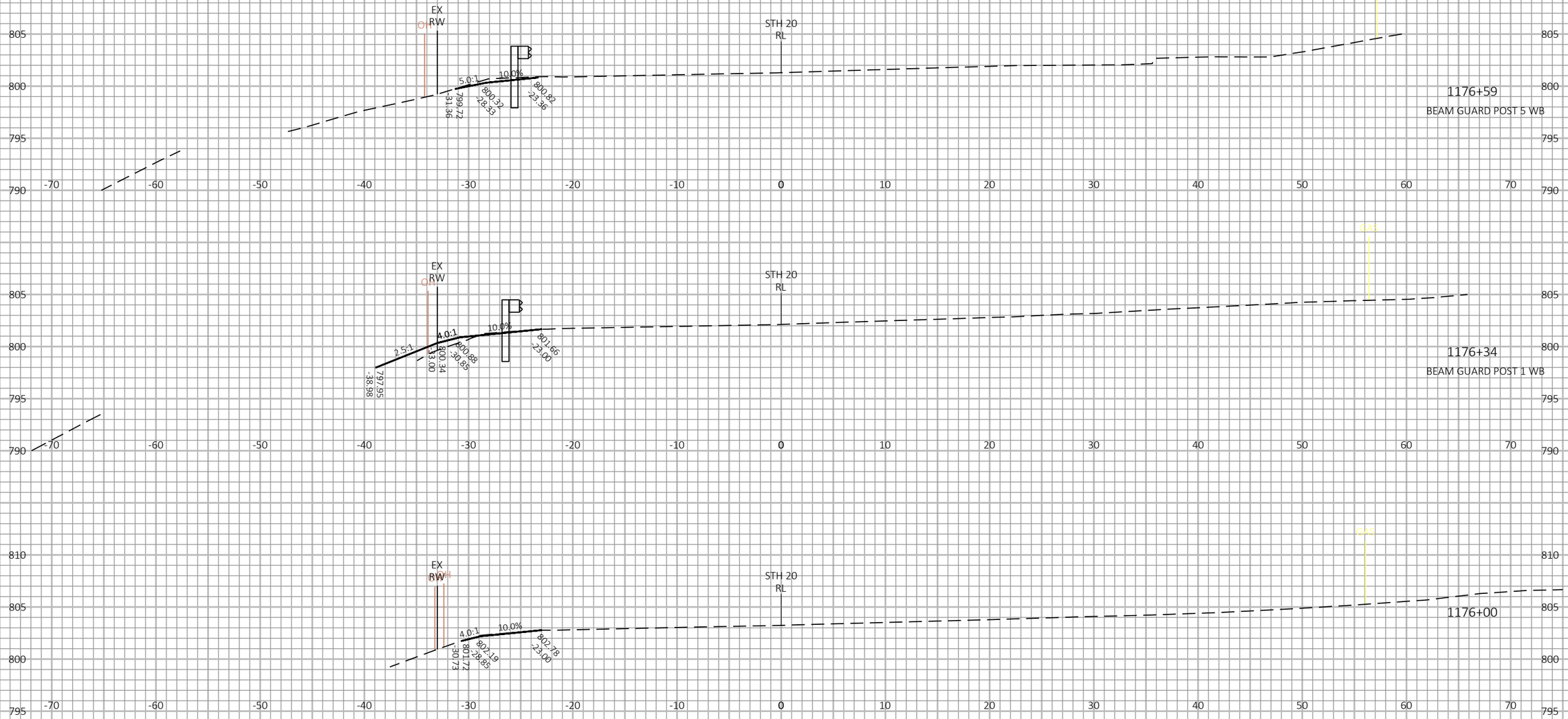
PLOT DATE : 8/31/2021 1:37 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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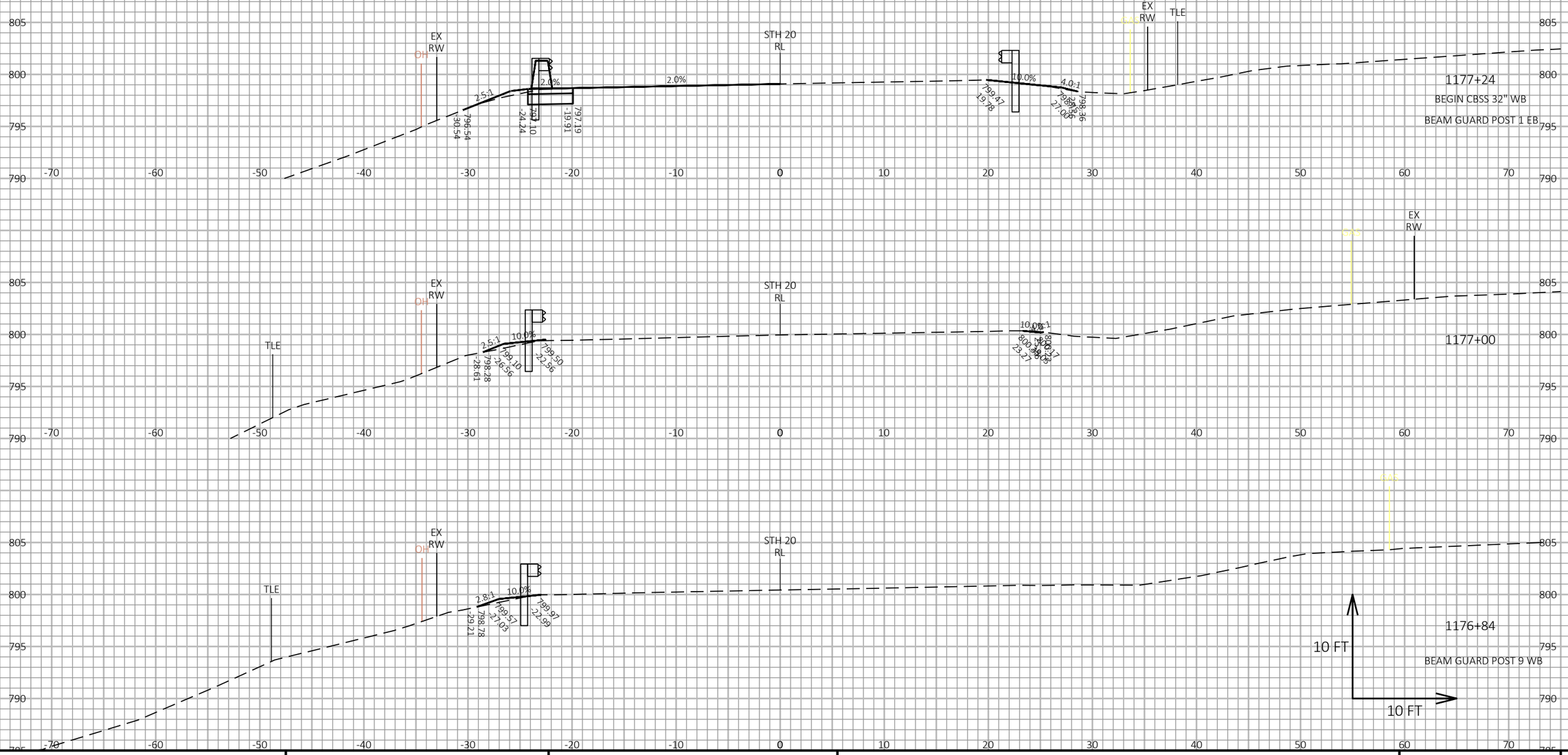
9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_421

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090273-XS

PLOT DATE : 10/28/2021 1:06 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_422

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090274-XS

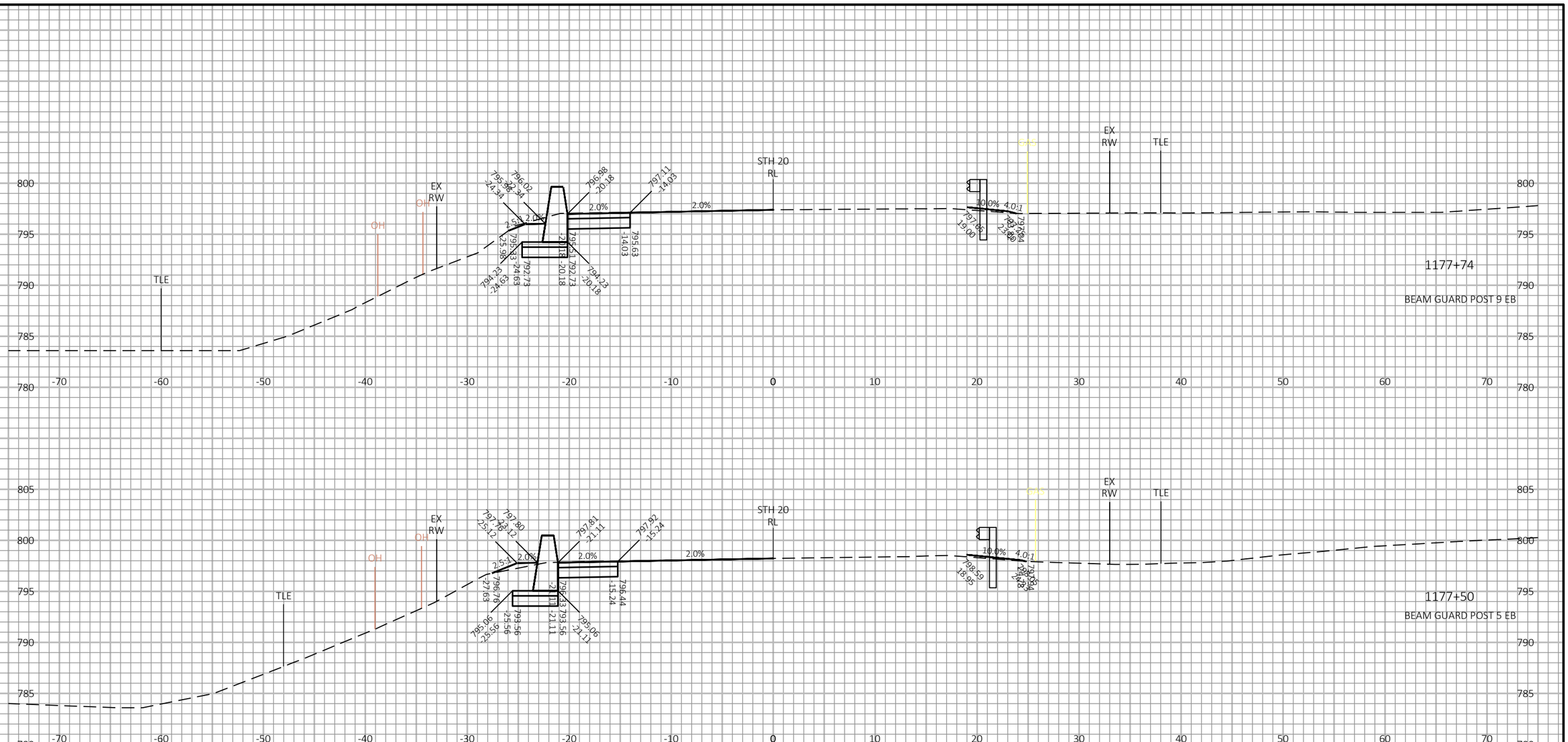
PLOT DATE : 10/28/2021 1:07 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_423

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090275-XS

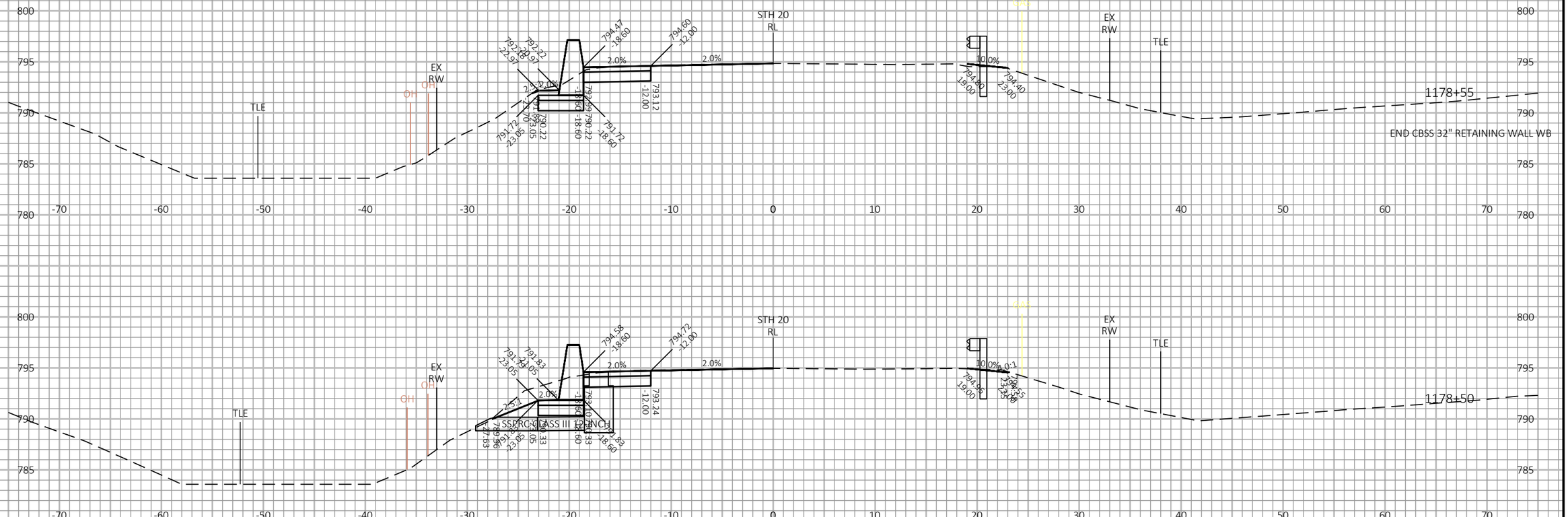
PLOT DATE : 10/28/2021 1:08 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

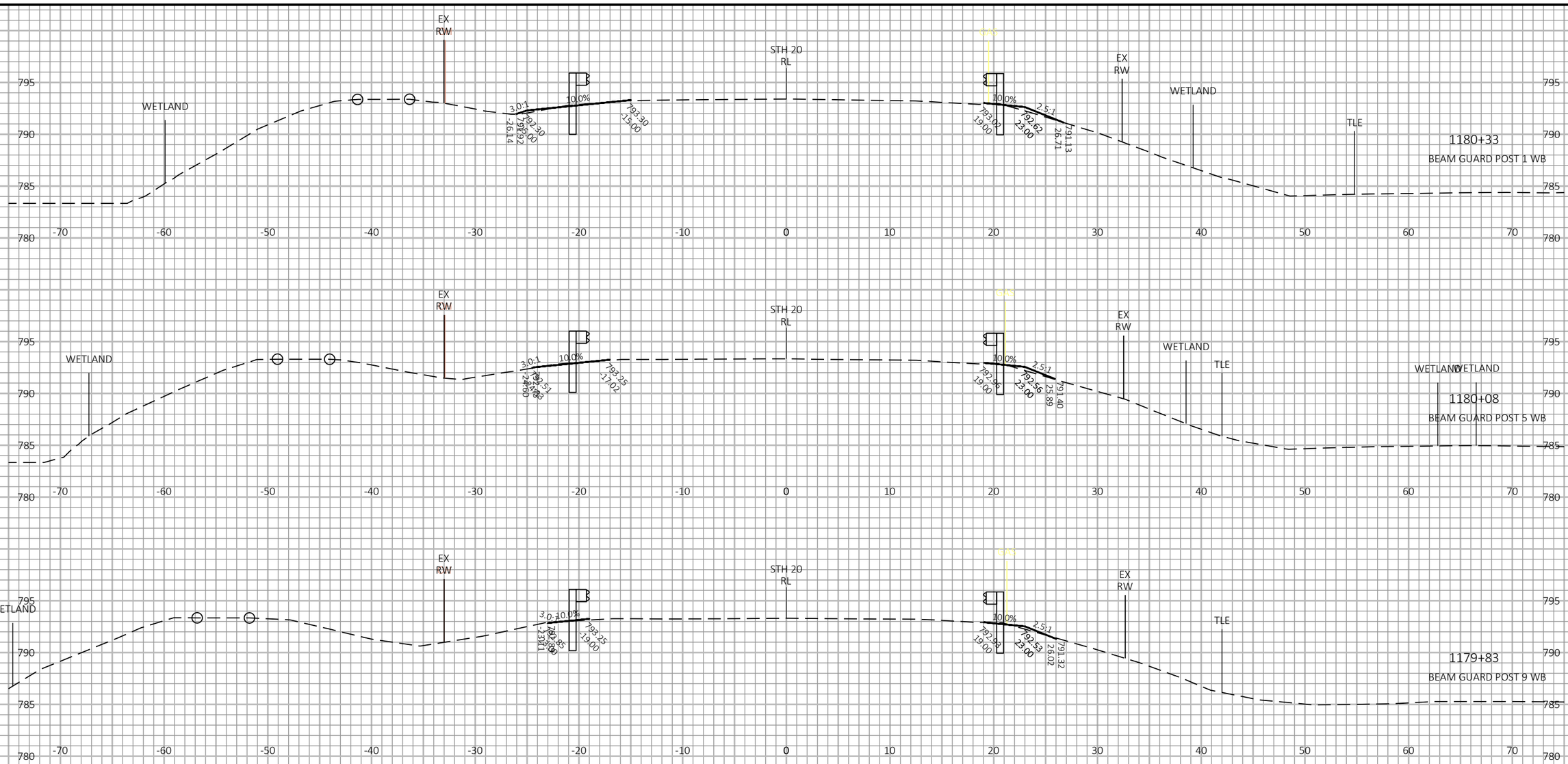


PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET PRE_424 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090276-XS

PLOT DATE : 10/28/2021 1:09 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_425

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090277-XS

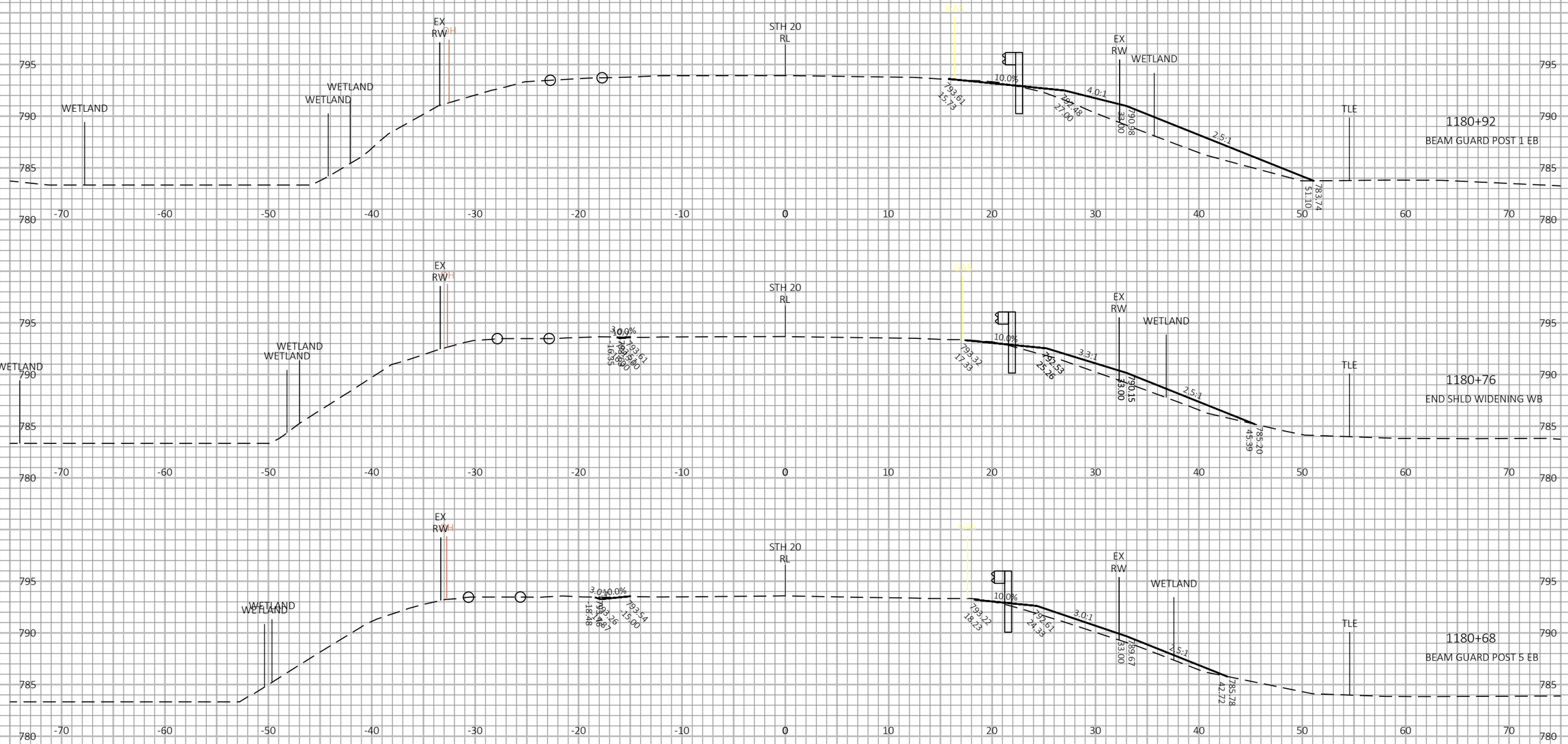
PLOT DATE : 10/13/2021 8:06 AM

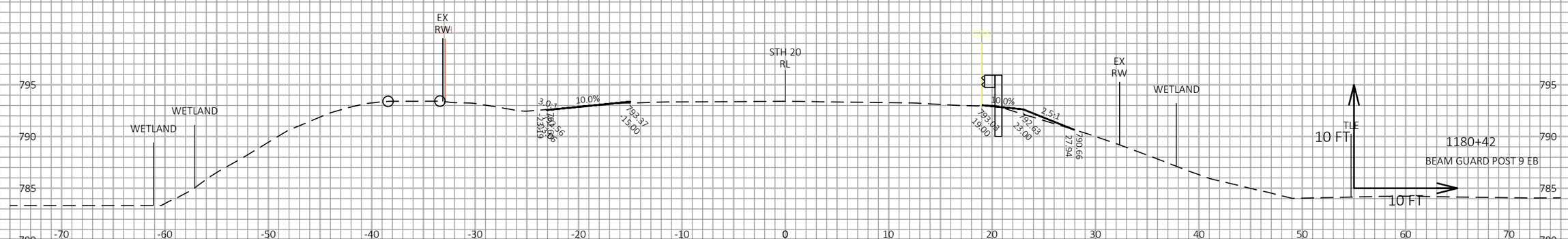
PLOT BY : GUENETTE, JEFFREY J

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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_426

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090278-XS

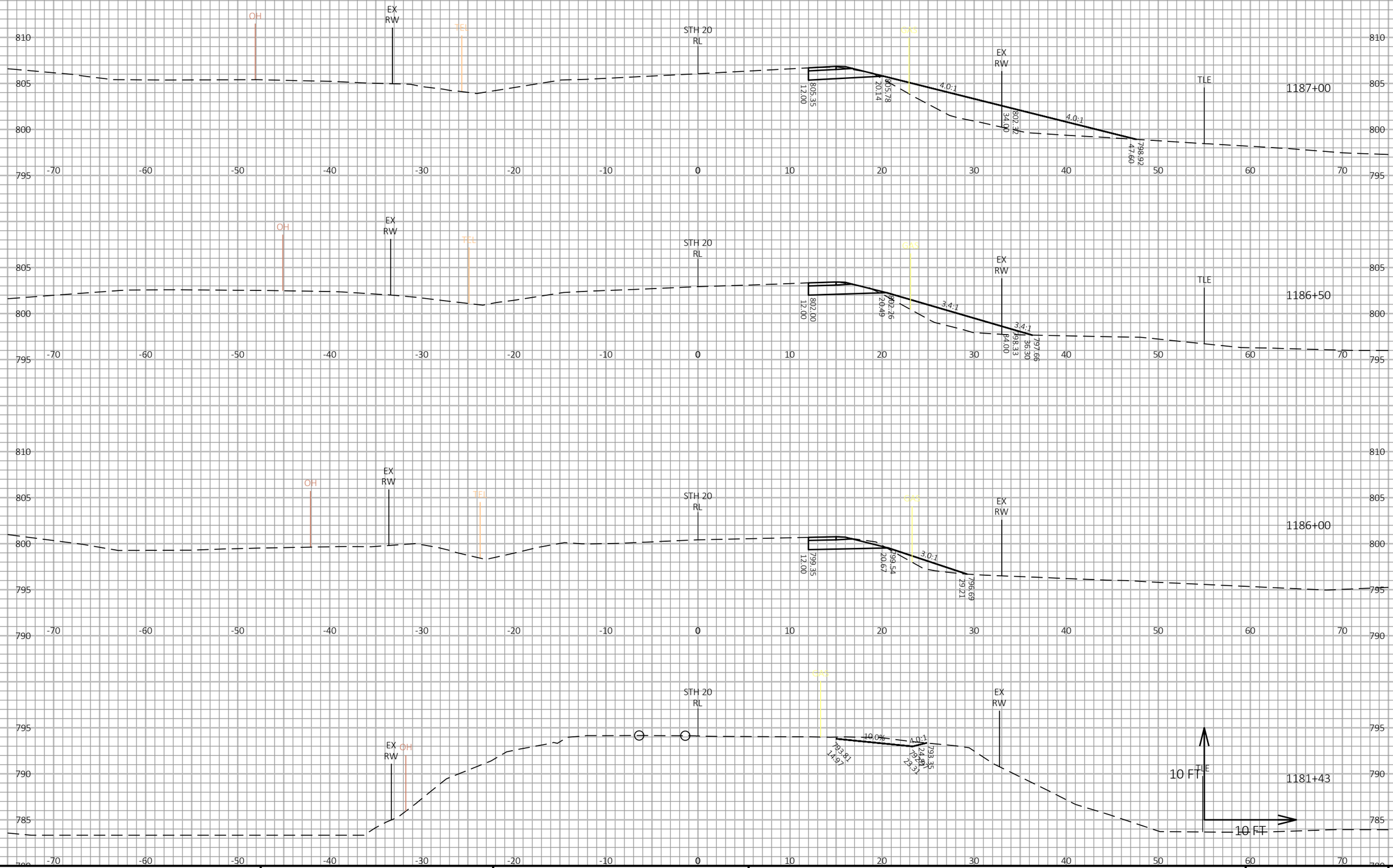
PLOT DATE : 10/13/2021 8:17 AM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090279-XS

PLOT DATE : 8/31/2021 1:42 PM

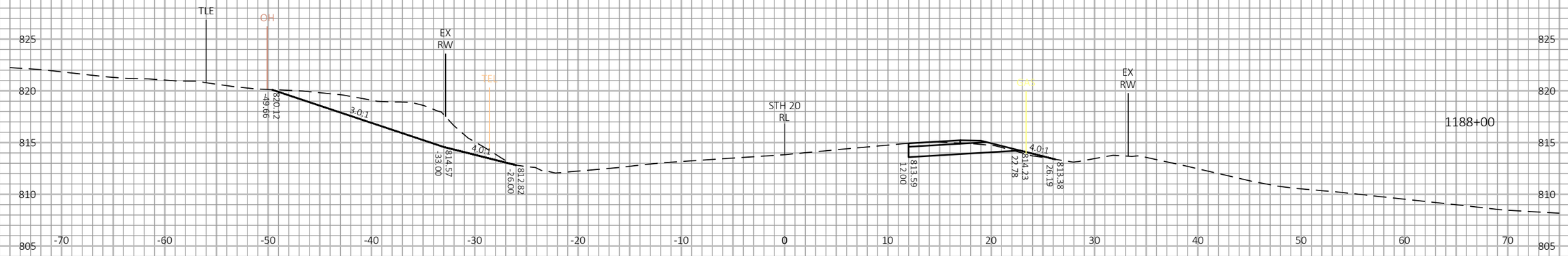
PLOT BY : GUENETTE, JEFFREY J

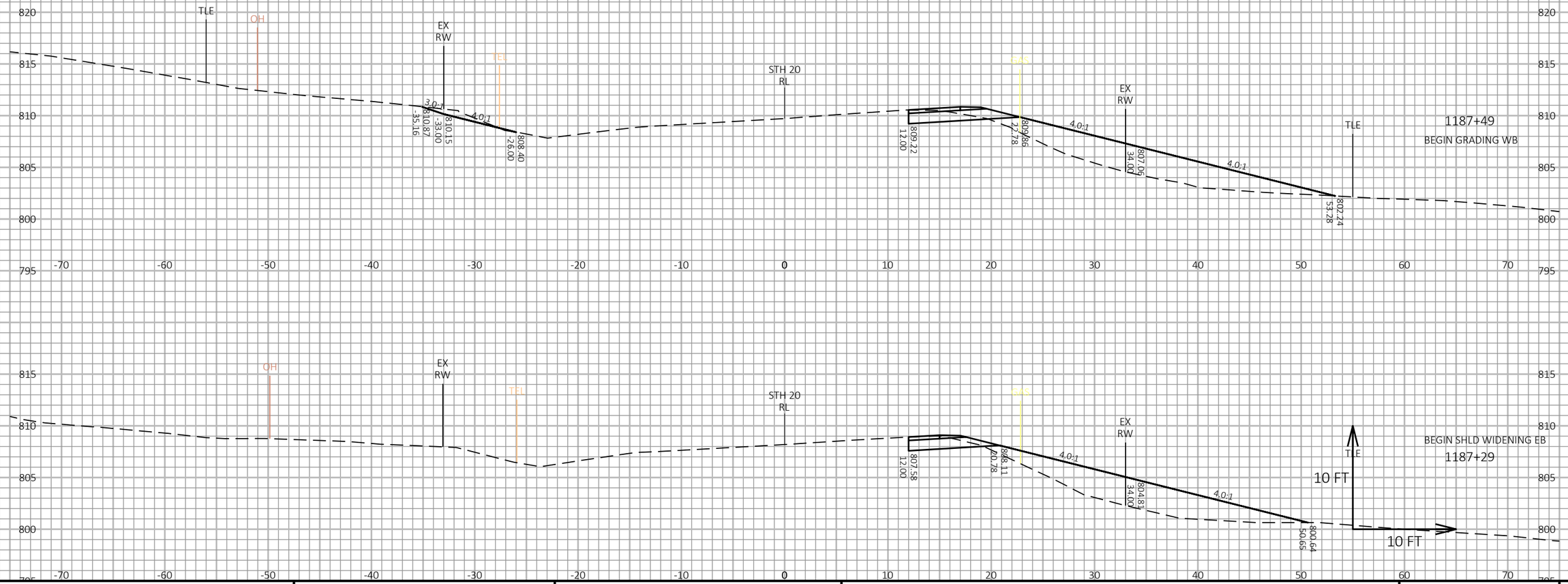
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_427

WISDOT/CADDS SHEET 49





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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

PRE_428

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090280-XS

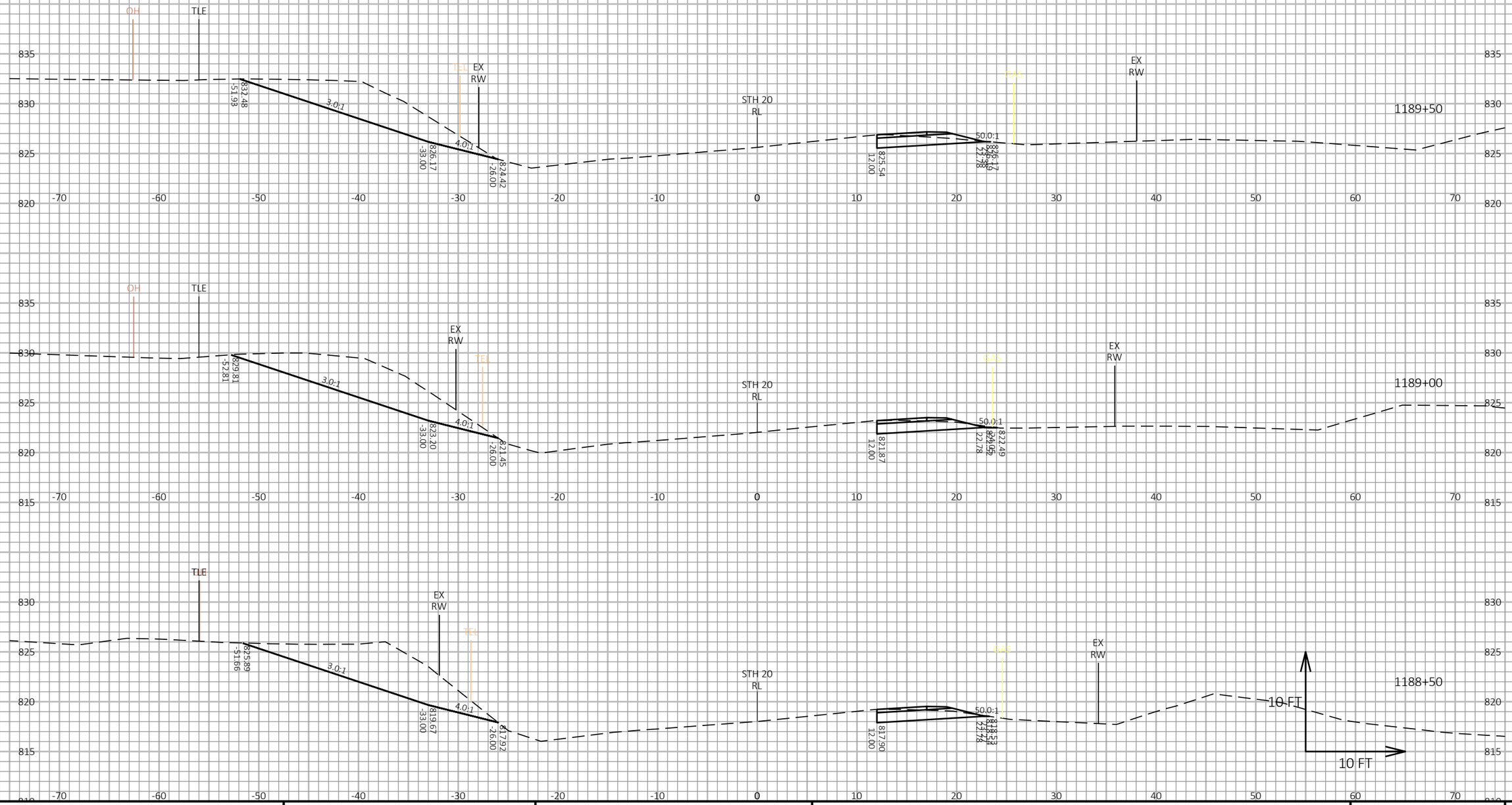
PLOT DATE : 8/31/2021 1:43 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090281-XS

PLOT DATE : 8/31/2021 1:43 PM

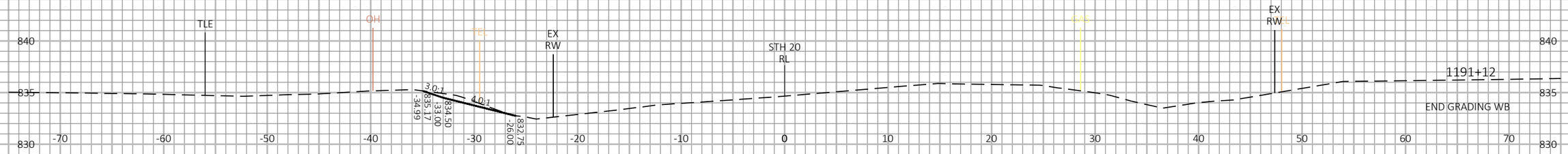
PLOT BY : GUENETTE, JEFFREY J

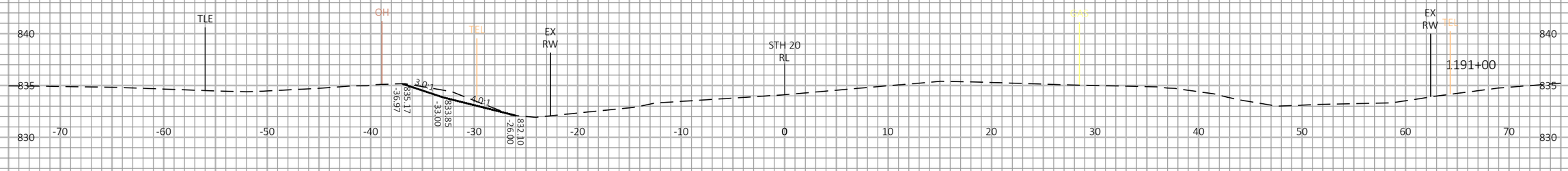
PLOT NAME :

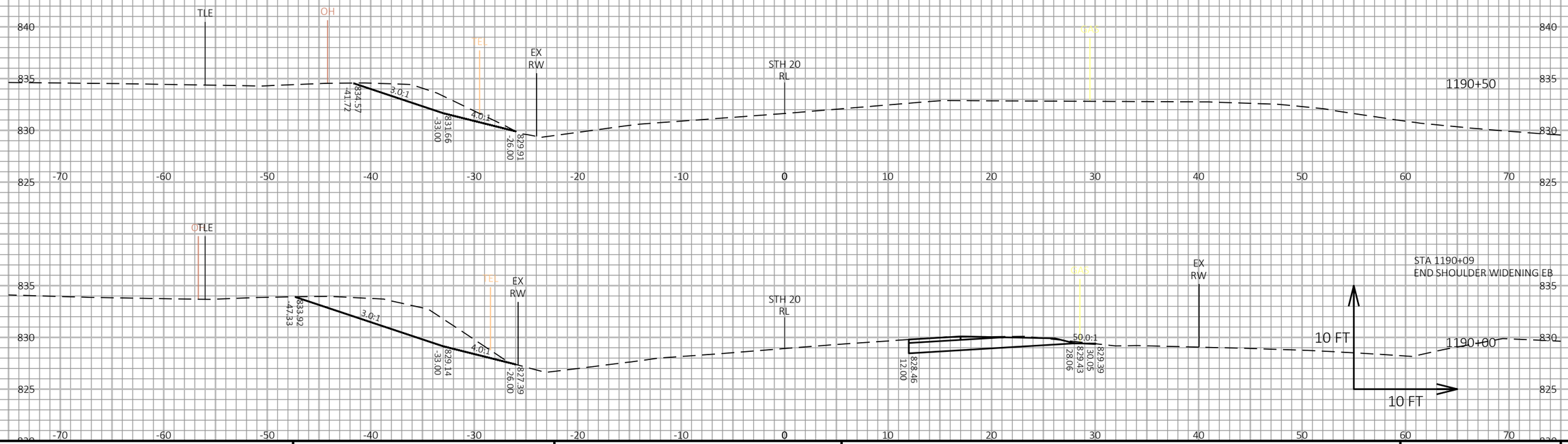
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_429

WISDOT/CADDS SHEET 49







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9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090282-XS

PLOT DATE : 8/31/2021 1:44 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_430

WISDOT/CADDS SHEET 49

13+50

EX RW
GAS
4.0:1
1.5%
4.0:1
851.18
-87.47
851.22
-78.42
TV
TV
WAT
TEL
ELEC
SAN

13+00

EX RW
GAS
4.0:1
1.5%
4.0:1
851.13
-87.92
850.74
-76.31
TV
WAT
TEL
ELEC
SAN

12+90

EX RW
GAS
4.0:1
1.5%
4.0:1
850.41
-89.82
850.05
-74.09
GAS
GAS
TV
WAT
TEL
TEL
ELEC
SAN

12+50

EX RW
GAS
4.0:1
1.5%
4.0:1
852.03
-86.20
852.12
-78.95
TV
WAT
TEL
TEL
ELEC
SAN

12+00

STA 11+66 LT
BEGIN SIDEWALK CONSTRUCTION
EX RW
GAS
SAN
1.6%
0.4%
1.5%
WAT
TV
TEL
ELEC
SAN
10 FT
20 FT

9

9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: CTH ES	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090283-XS

PLOT DATE : 8/31/2021 1:44 PM

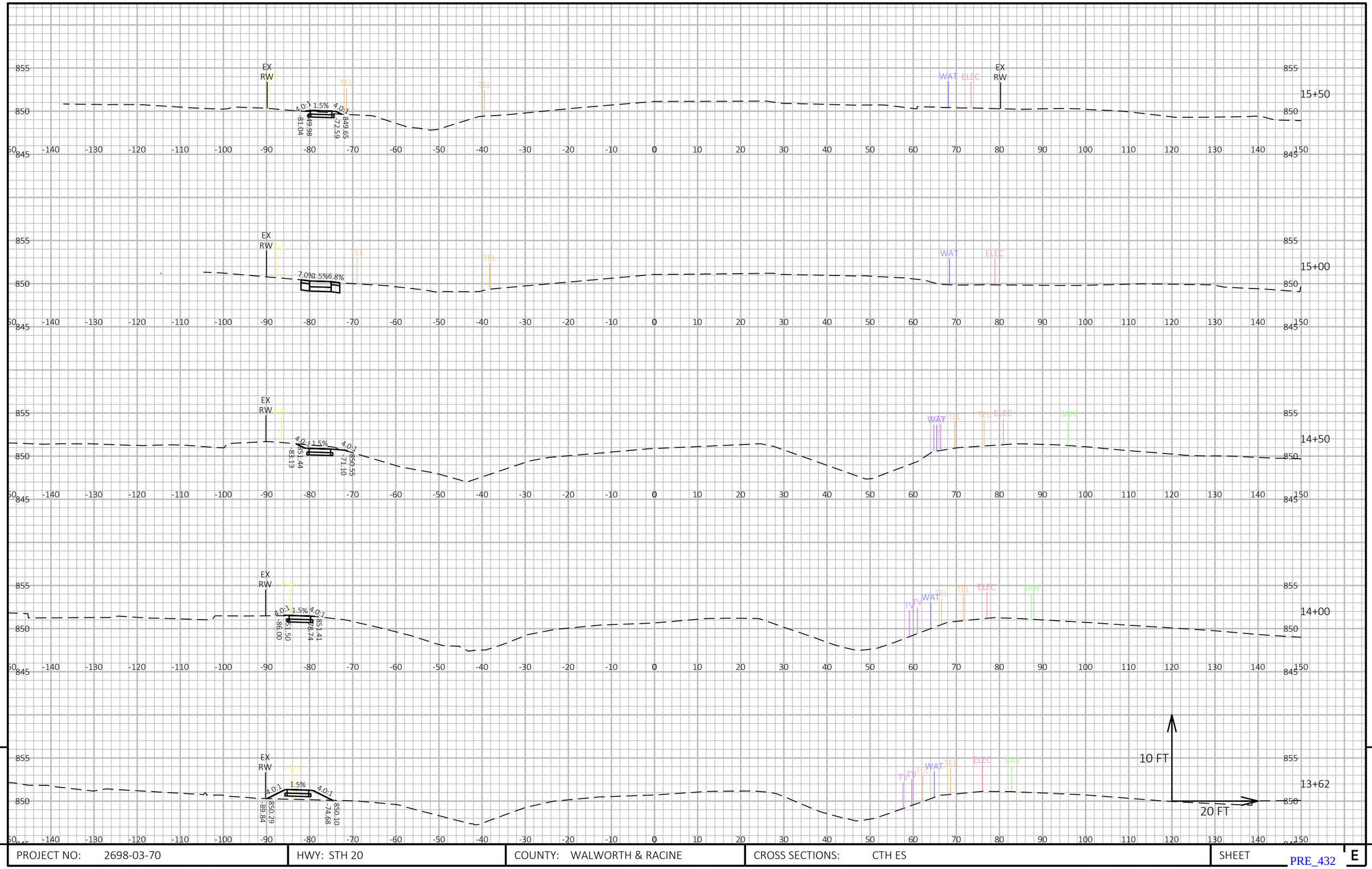
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_431

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: CTH ES	SHEET E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090284-XS

PLOT DATE : 8/31/2021 1:44 PM

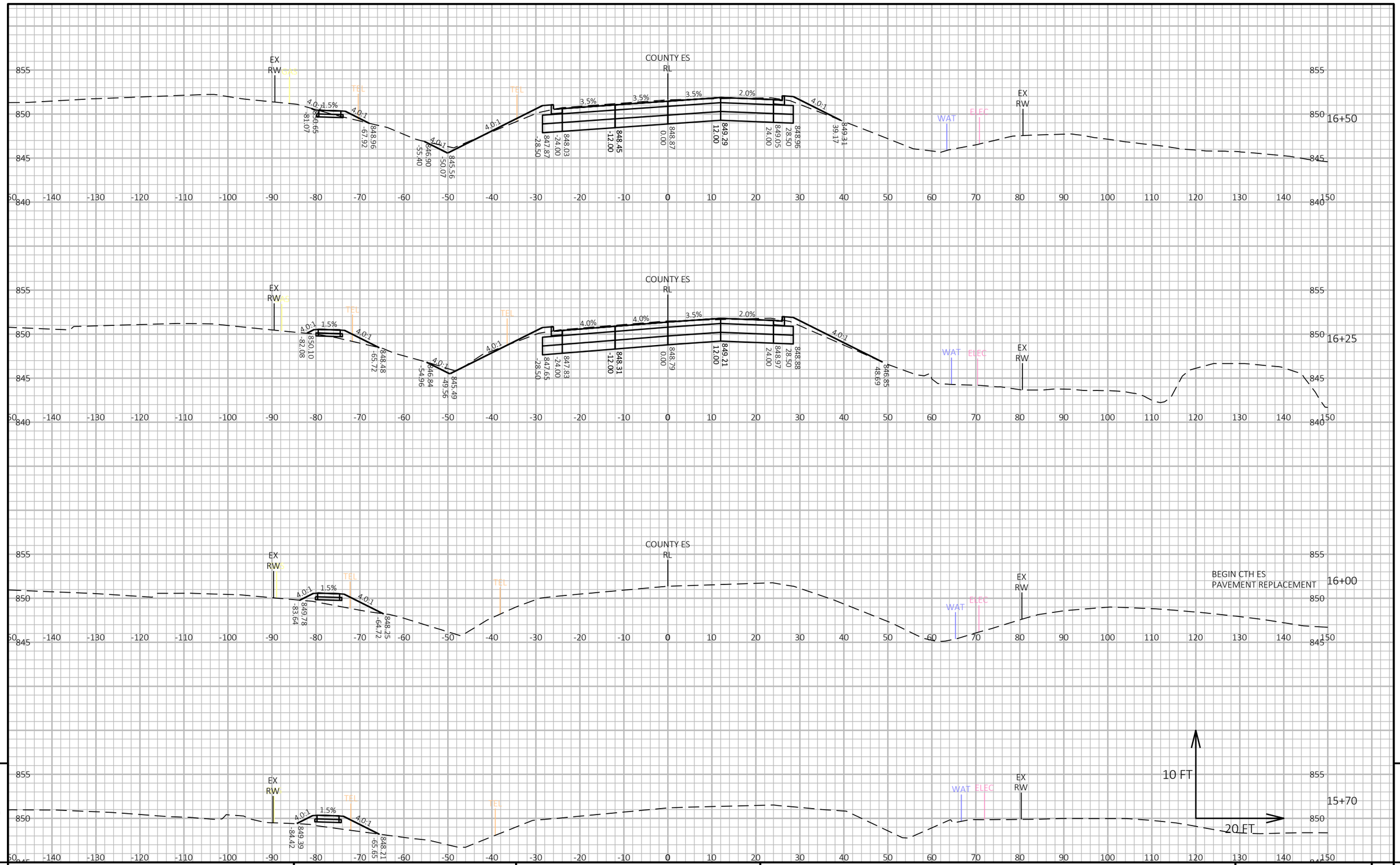
PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_432

WISDOT/CADDS SHEET 49



9 9

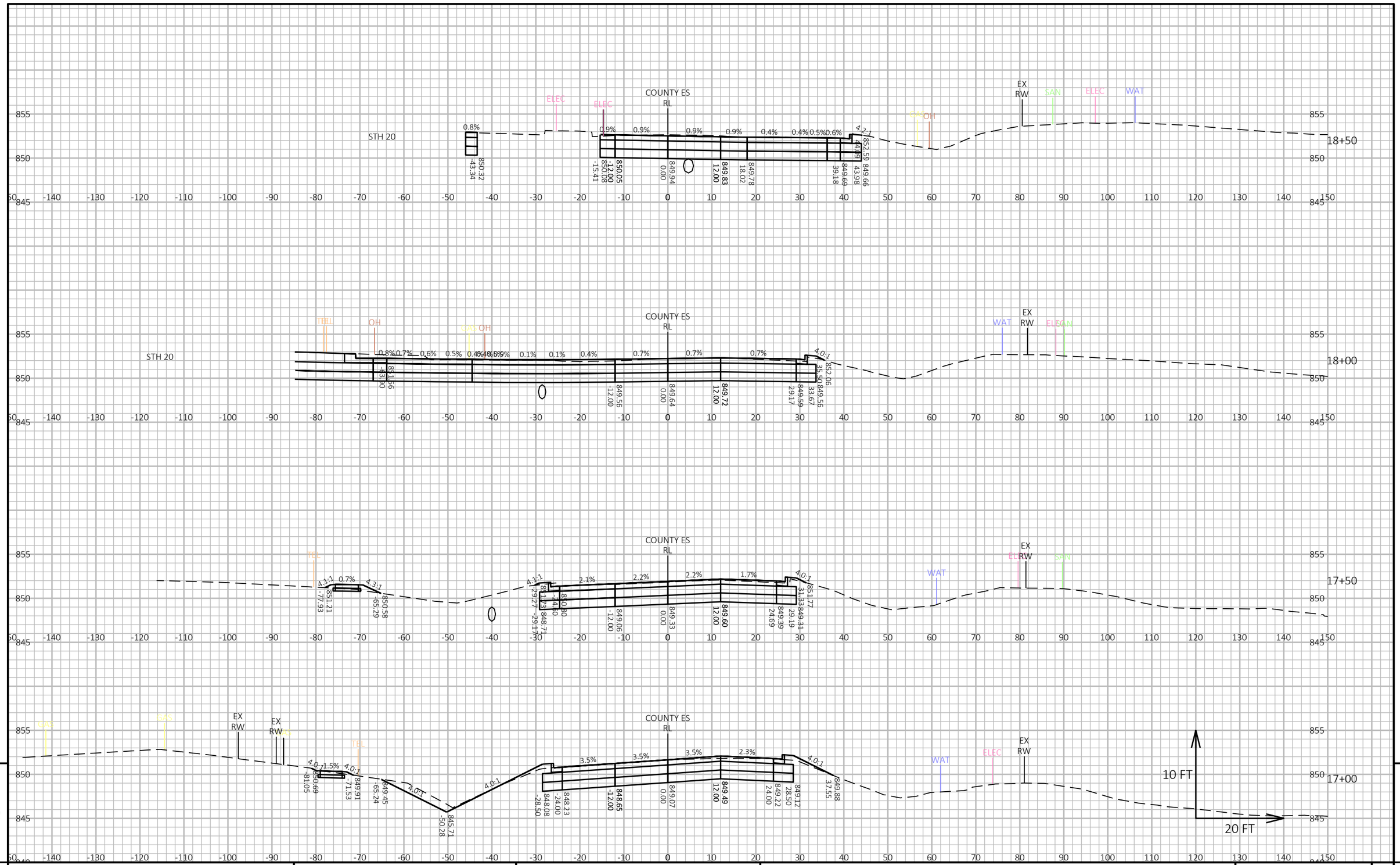
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: CTH ES	SHEET E

PRE_433

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090285-XS

PLOT DATE : 8/31/2021 1:45 PM PLOT BY : GUENETTE, JEFFREY J 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: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: CTH ES	SHEET E

PRE_434

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090286-XS

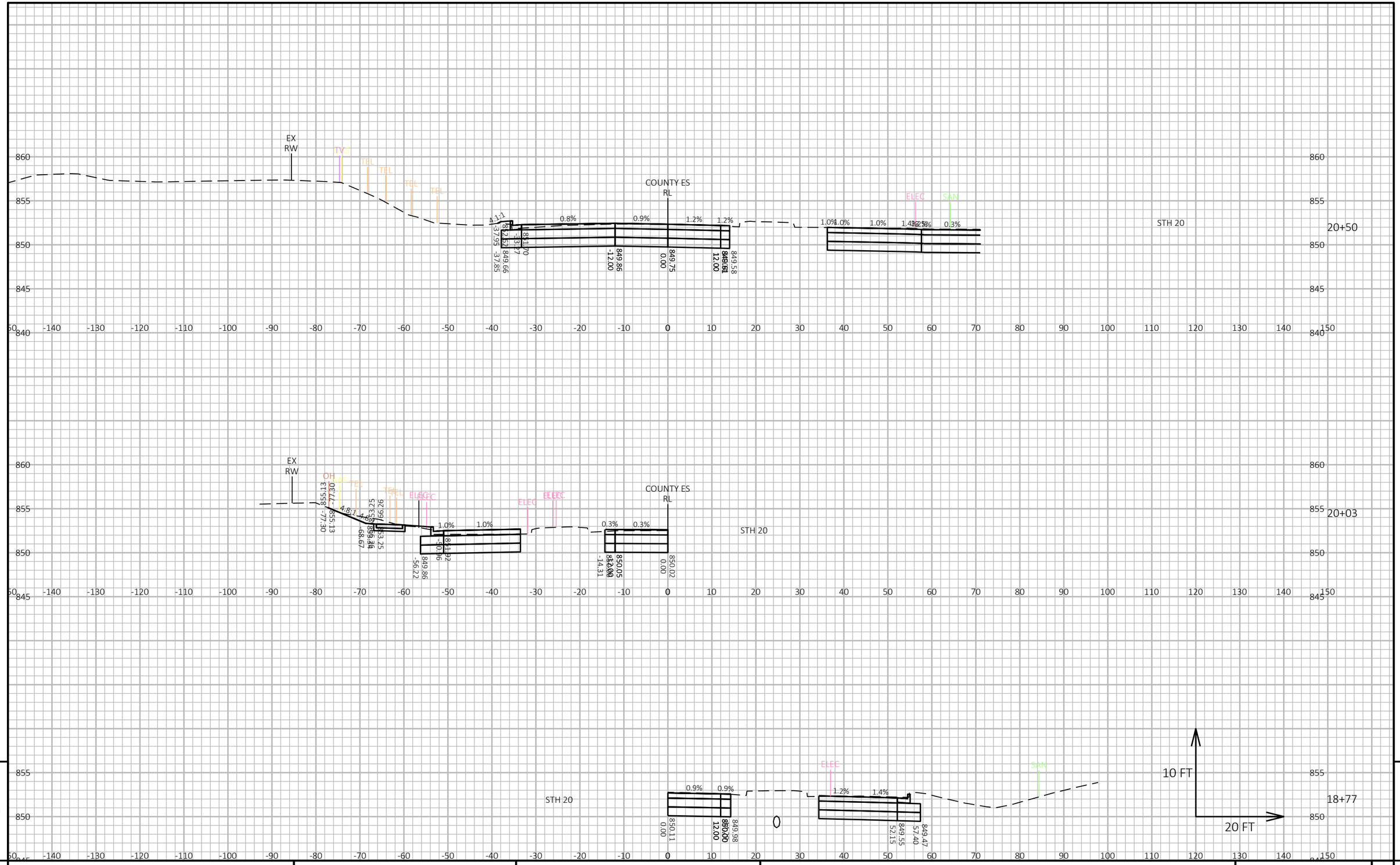
PLOT DATE : 8/31/2021 1:45 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: CTH ES	SHEET E

PRE_435

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090287-XS

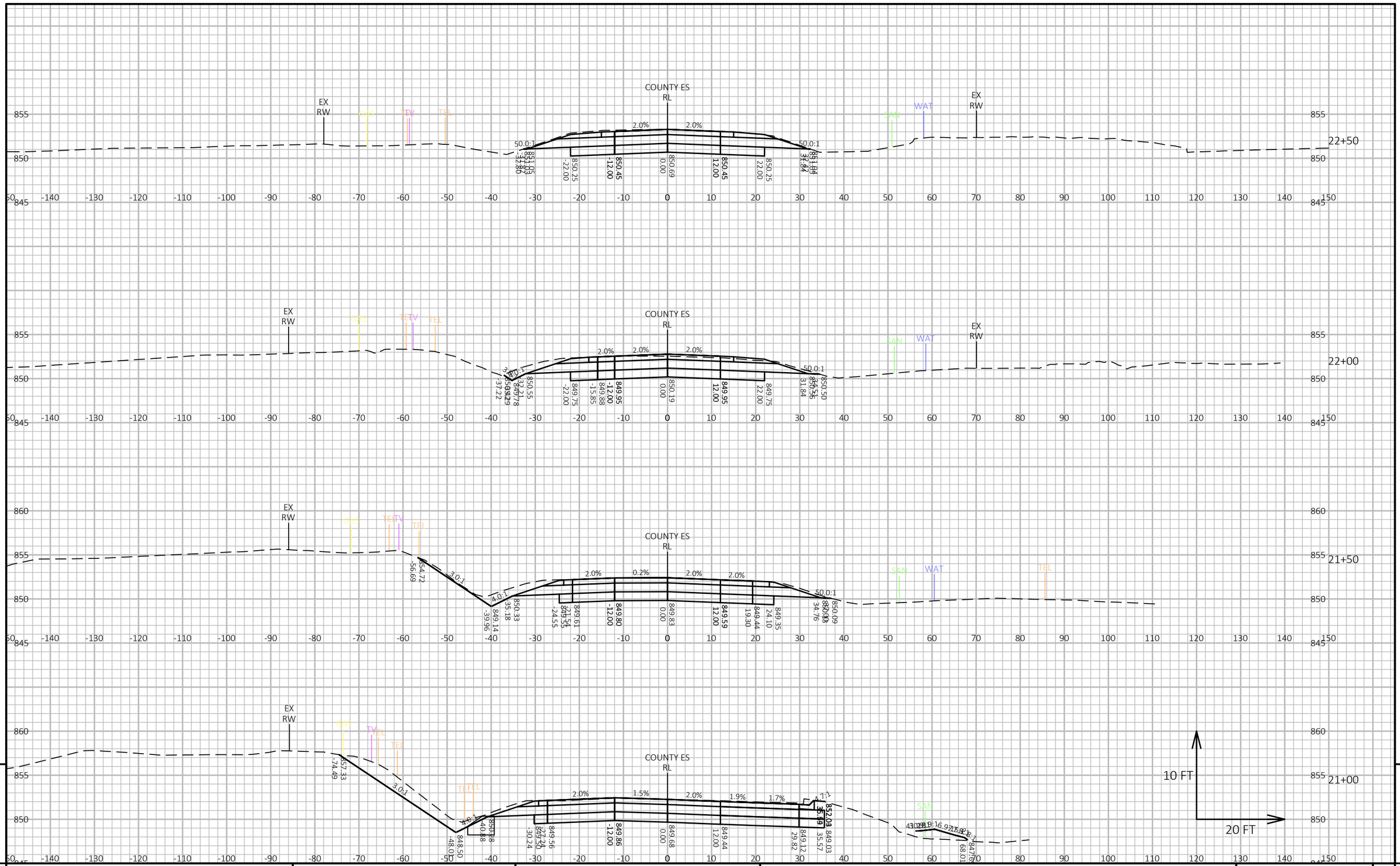
PLOT DATE : 8/31/2021 1:45 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: CTH ES	SHEET E

PRE_436

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090288-XS

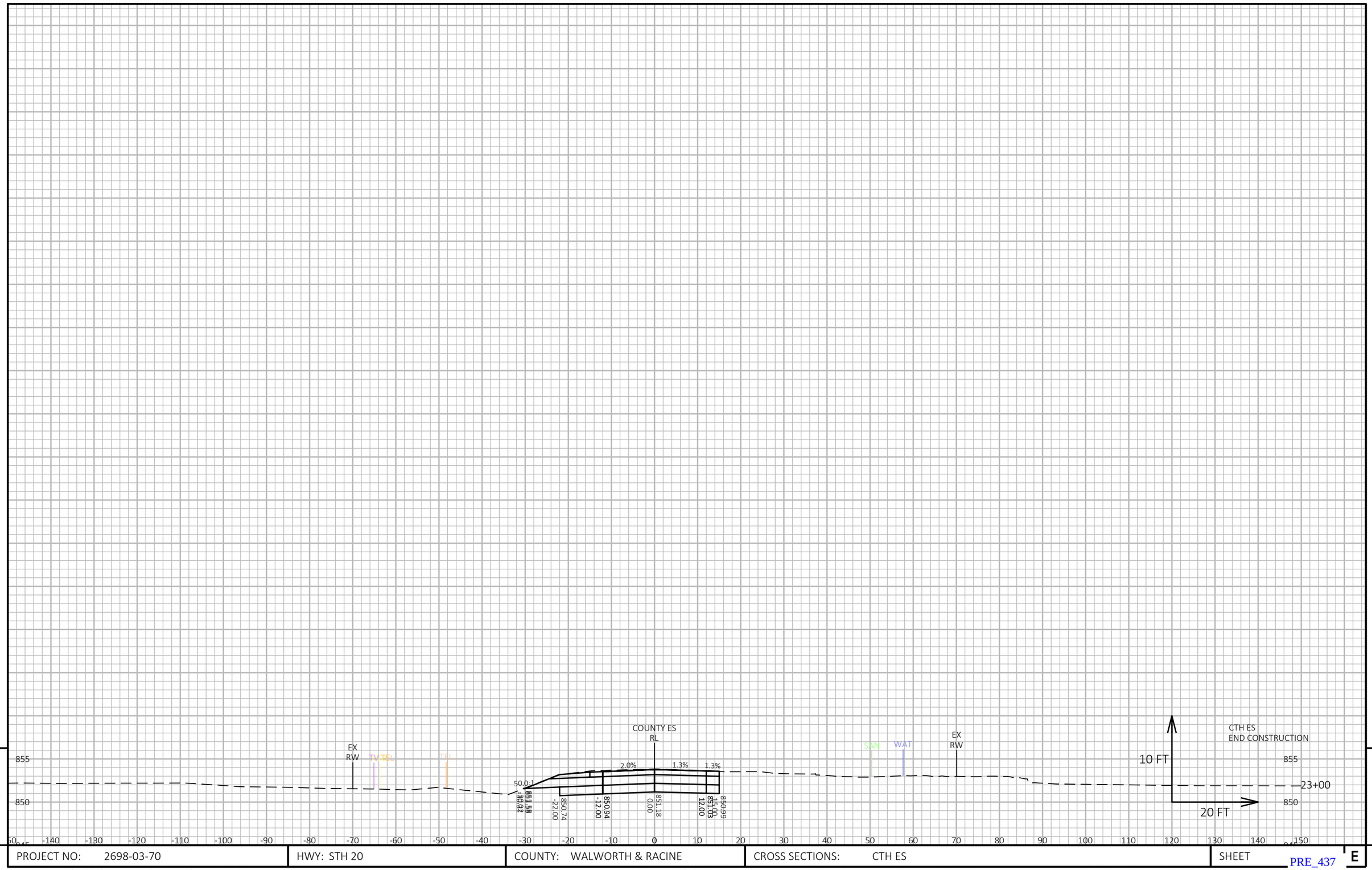
PLOT DATE : 8/31/2021 1:46 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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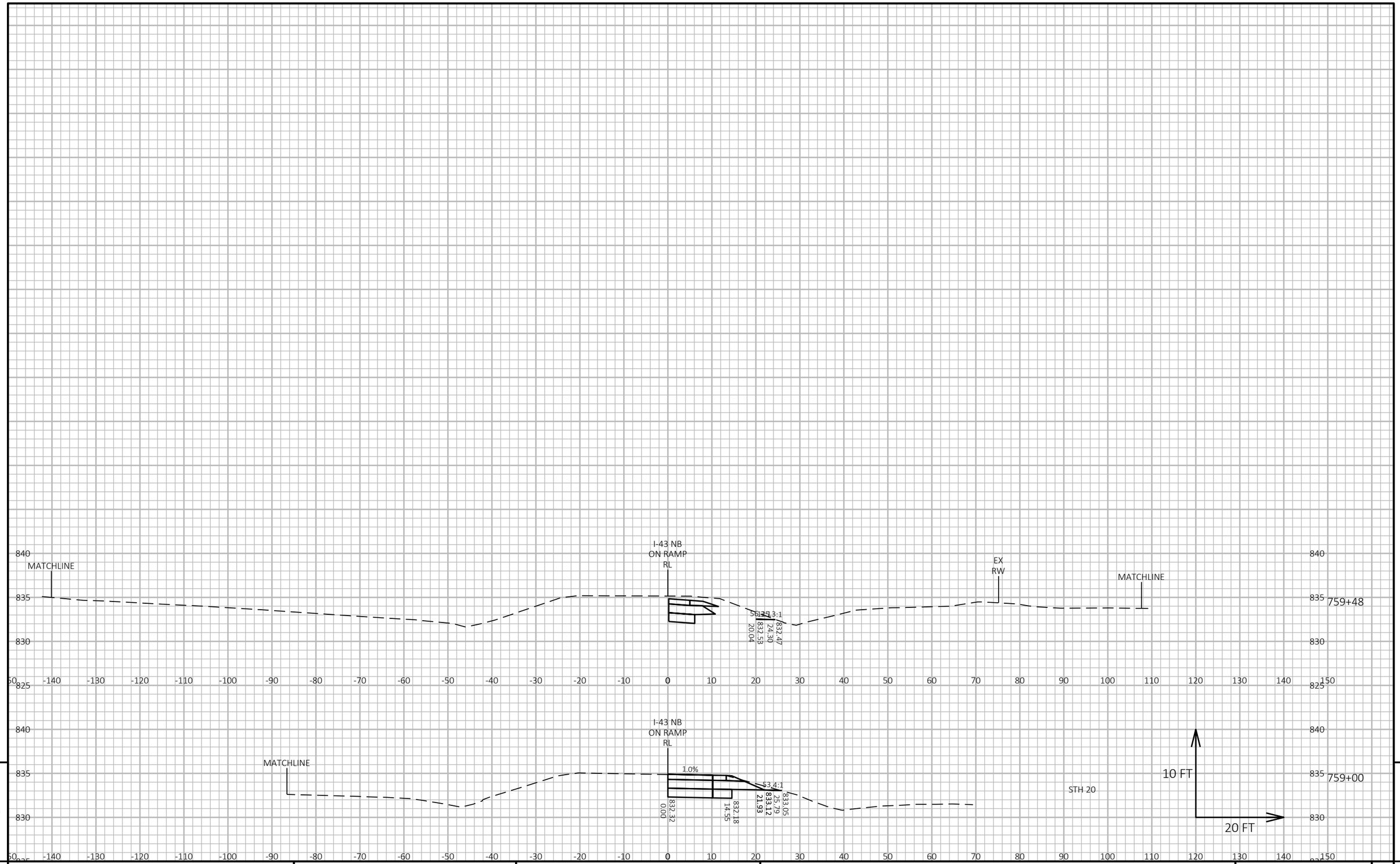
PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: CTH ES	SHEET PRE_437 E

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090289-XS

PLOT DATE : 8/31/2021 1:46 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2698-03-70	HWY: STH 20	COUNTY: WALWORTH & RACINE	CROSS SECTIONS: I-43 NB ON-RAMP	SHEET E

PRE_438

FILE NAME : N:\PDS\C3D\26980300-2018\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090290-XS

PLOT DATE : 8/31/2021 1:46 PM

PLOT BY : GUENETTE, JEFFREY J

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

WISCONSIN DEPARTMENT OF TRANSPORTATION

EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a “PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

a. With the plan open in Acrobat, select Document > Insert Pages.
b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
c. In the Insert dialog box, choose After for Location and Last page for Page.
d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

a. Go to the last sheet of the plan.
b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match te page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

Place Preliminary Sheet Numbers

TO REMOVE PRELIMINARY SHEET NUMBERS

Remove