RHI

PROJECT ID: 9205-03-60

WITH: N/A

COUNTY: VILAS

31

NOVEMBER 2023

ORDER OF SHEETS

TOTAL SHEETS = 154

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

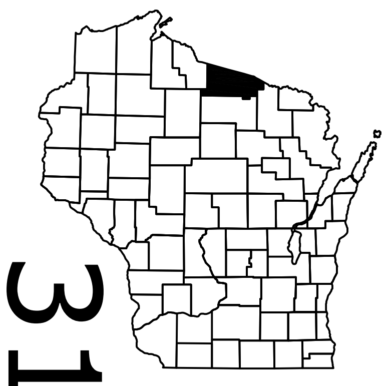
SAINT GERMAIN - SAYNER

STH 70 TO LAKE STREET

STH 155
VILAS COUNTY

STATE PROJECT NUMBER
9205-03-60

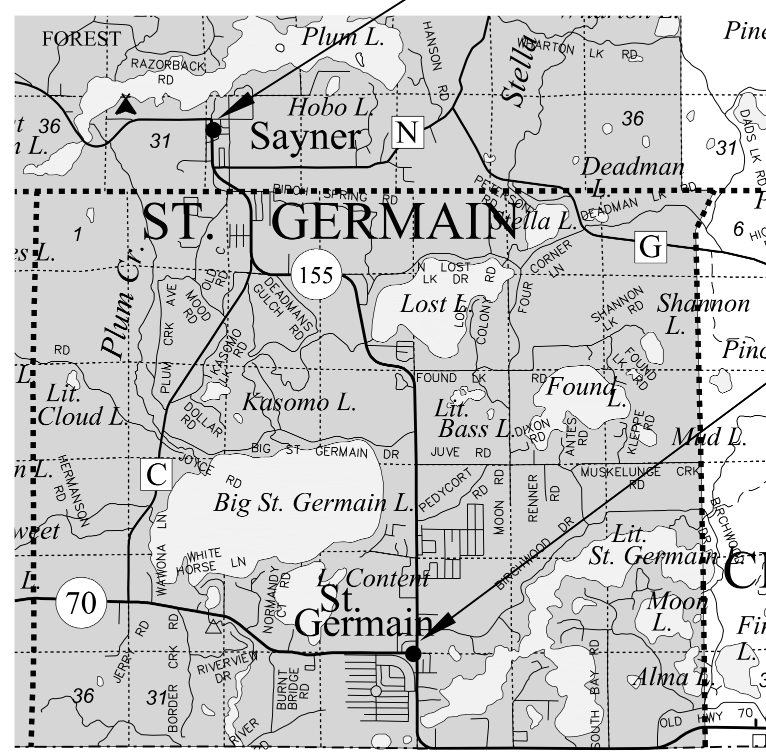
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9205-03-60	WISC 2024015	1



N

END PROJECT
STA 366+59

BEGIN PROJECT
STA 0+77.00
X = 441,348.997
Y = 105,012.568



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 6.93

DESIGN DESIGNATION

A.A.D.T.	2023	=	2200
A.A.D.T.	2043	=	2700
D.H.V.		=	5.3
D.D.		=	61/39
T.		=	6.0%
DESIGN SPEED		=	45/60/35 MPH
ESALS		=	590,000

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'FB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

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

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

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), VILAS COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	COLEMAN ENGINEERING
Designer	EVAN MAVES
Project Manager	ANDREW CASPER
Regional Examiner	FRED SCHUNKE
Regional Supervisor	KAI KILEN

APPROVED FOR THE DEPARTMENT

DATE: 7/19/2023 Andrew Casper (Signature)

E

GENERAL NOTES:

- WHEN THE QUANTITY OF THE ITEMS BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

- CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING, SEEDING, AND EMATTING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

- 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.

- WORK WITH THE UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKERS IS TO BE WITH THE APPROVAL OF THE PROJECT ENGINEER.

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 55.974 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.784 ACRES

ORDER OF DETAIL SHEETS:

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL DETAILS

AS-BUILTS:

9205-01-60
1009-43-61

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

UTILITIES:

CHOICETEL LLC

TED BOGEMAN
118 SPRUCE ST
EAGLE RIVER, WI 54521
PHONE: (715) 480-4800 WORK
PHONE: (715) 891-0761 MOBILE
E-MAIL: TED@CHOICETEL.NET

FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE

CHAD SCHMIDT
330 BLACKBURN ST
RIPON, WI 54971
PHONE: (920) 872-2902 WORK
PHONE: (715) 571-6901 MOBILE
E-MAIL: CHAD.SCHMIDT@JSITEL.COM

WE ENERGIES - GAS/PETROLEUM

RYAN MIENTKE
4352 CTH B
LAND O LAKES, WI 54540
PHONE: (906) 779-5617 WORK
PHONE: (906) 287-5199 MOBILE
E-MAIL: RYAN.MIENTKE@WE-ENERGIES.COM

WISCONSIN PUBLIC SERVICE CORP - ELECTRICITY

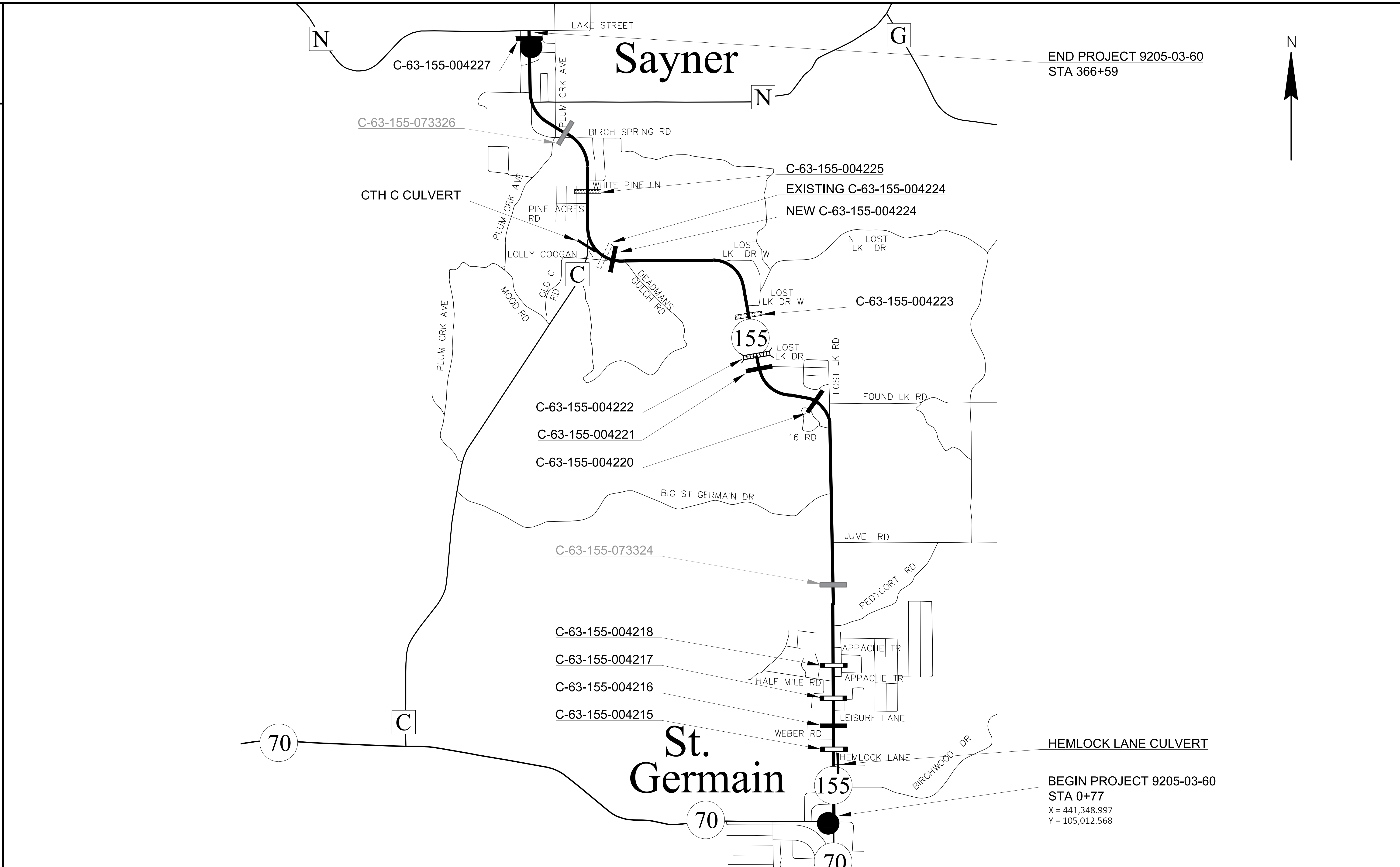
KEVIN TERMAAT
PO BOX 1166
WAUSAU, WI 54401-1166
PHONE: (715) 848-7353 WORK
E-MAIL: KEVIN.TERMAAT@WISCONSINPUBLICSERVICE.COM

WISCONSIN PUBLIC SERVICE CORP - GAS/PETROLEUM

SHANE SARKKINEN
2027 NAVAJO ST
RHINELANDER, WI 54501
PHONE: (715) 369-7133 WORK
PHONE: (715) 966-1040 MOBILE
E-MAIL: SHANE.SARKKINEN@WISCONSINPUBLICSERVICE.COM

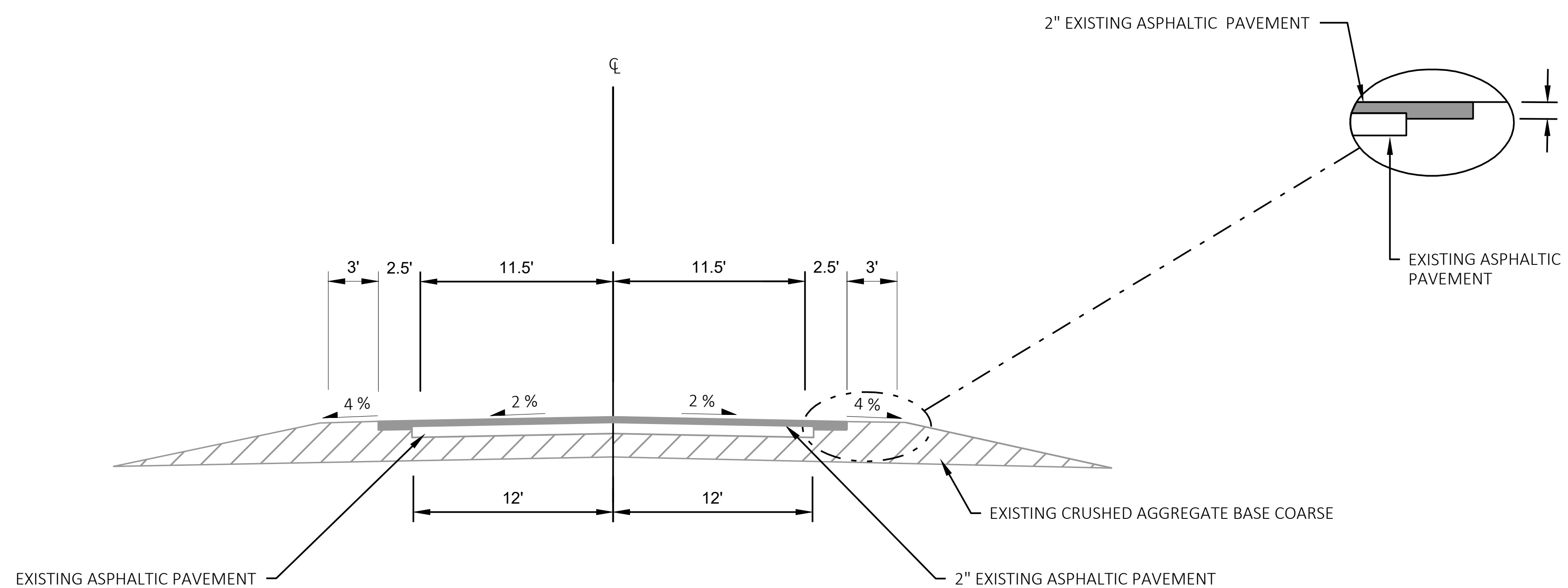
DNR CONTACT:

JON SIMONSEN
1007 SUTLIFF
RHINELANDER, WI 54501
PHONE: (715) 367-1936 WORK
PHONE: (715) 365-8932 FAX
E-MAIL: JONATHAN.SIMONSEN@WISCONSIN.GOV



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PROJECT OVERVIEW	SHEET 3 E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 01
PLOT DATE : 1/25/2023 6:57 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

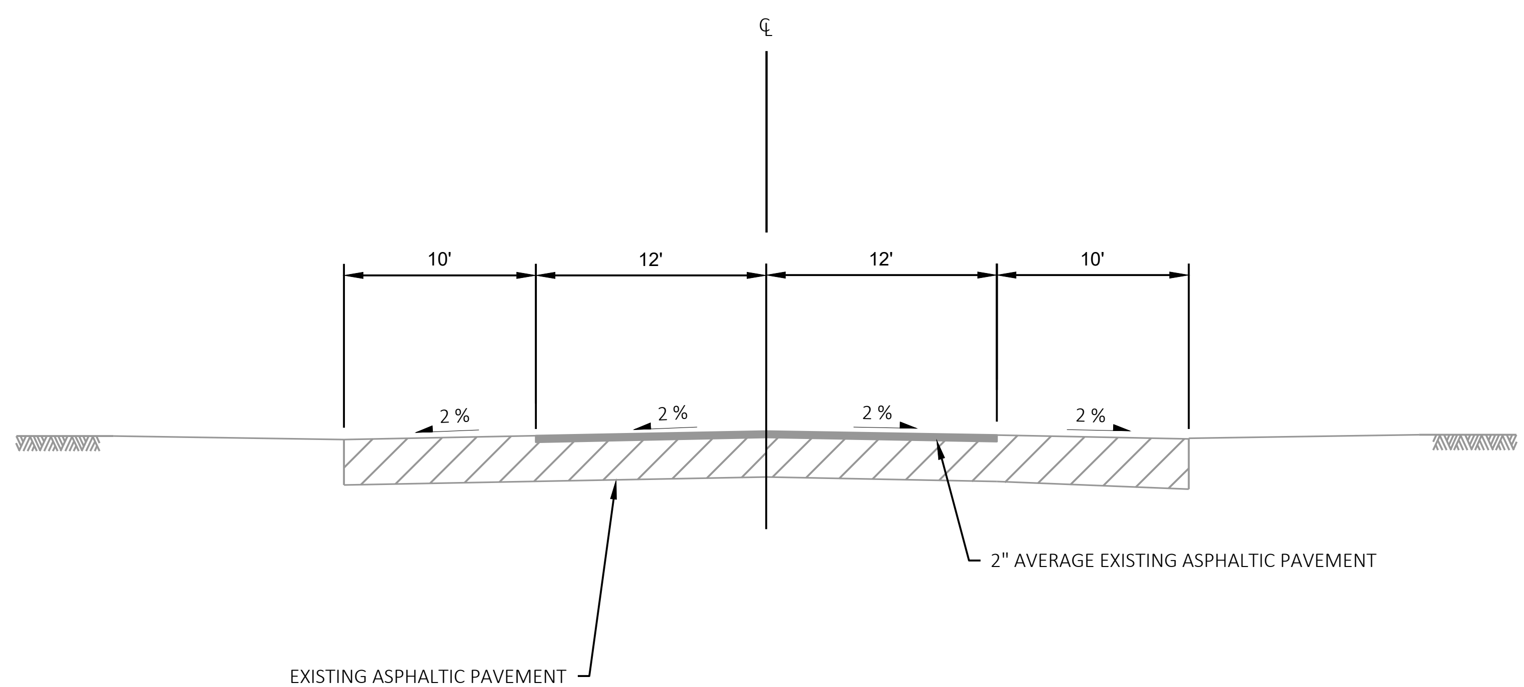


EXISTING TYPICAL SECTION

STA 0+77 - STA 354+70

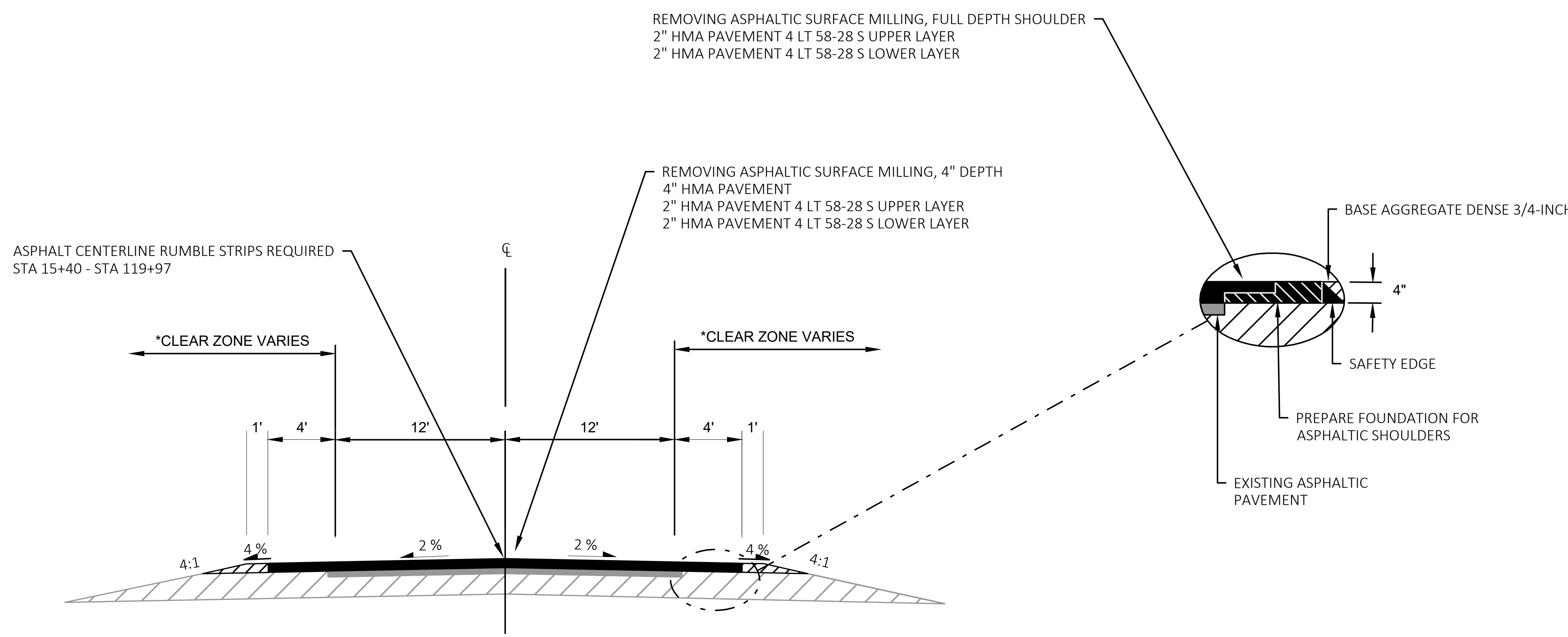
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	TYPICAL SECTIONS	SHEET 4	E

2



EXISTING TYPICAL SECTION

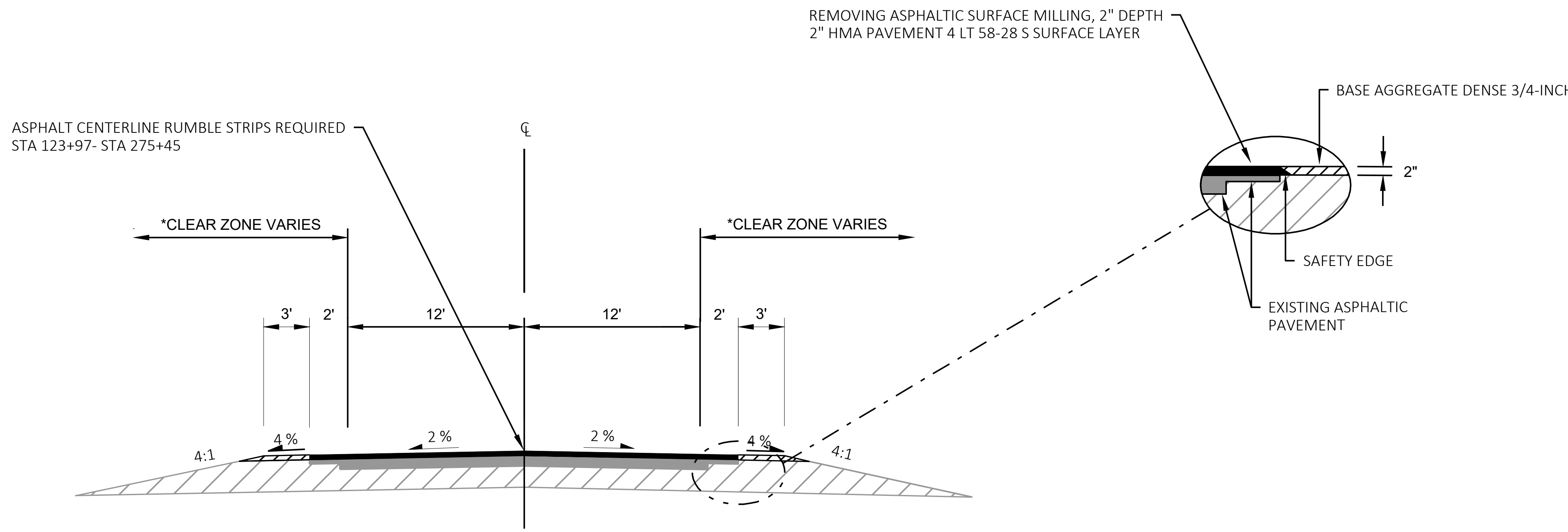
STA 354+70 - STA 366+59



*CLEAR ZONE WIDTH	
STATIONING	WIDTH
STA 0+77 - STA 15+40	14 FT
STA 15+40 - STA 122+75	18 FT

FINISHED TYPICAL SECTION

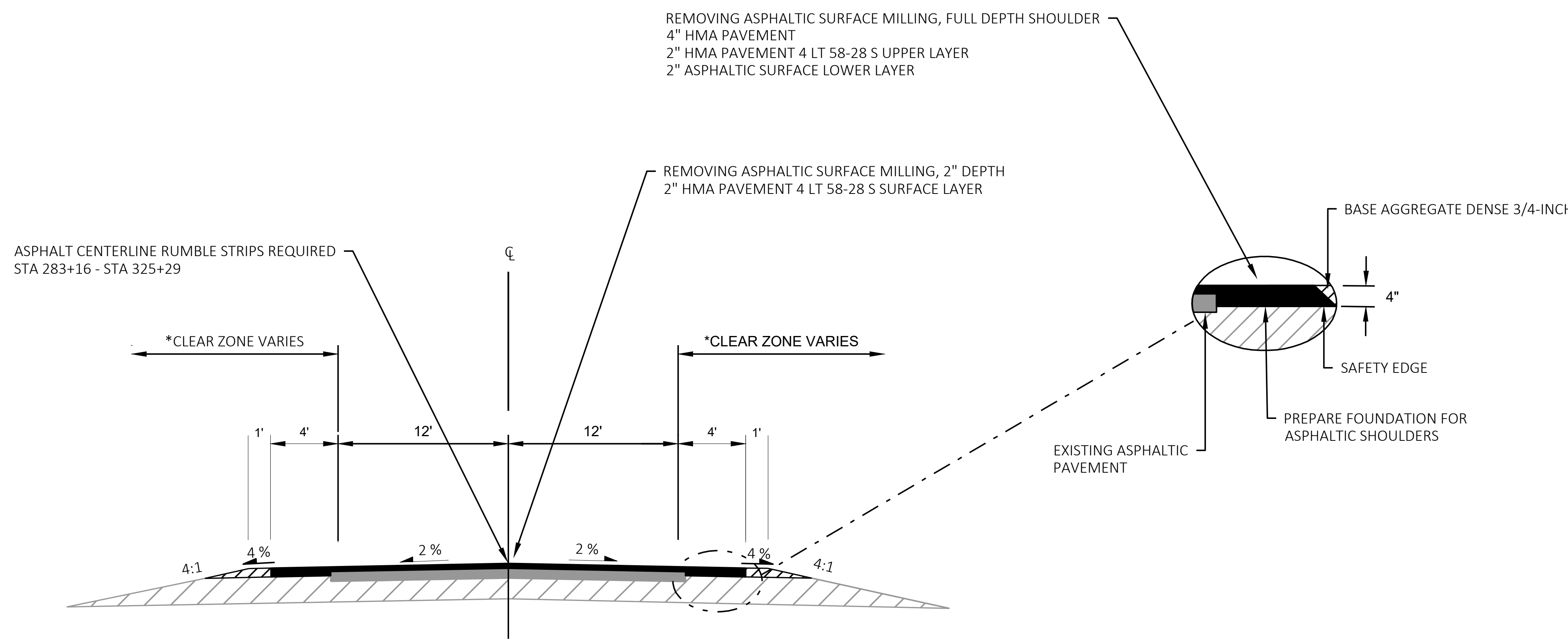
STA 0+77 - STA 122+75



*CLEAR ZONE WIDTH	
STATIONING	WIDTH
STA 122+75 - STA 129+45	18 FT
STA 129+45 - STA 281+12	24 FT

FINISHED TYPICAL SECTION

STA 122+75 - STA 281+12

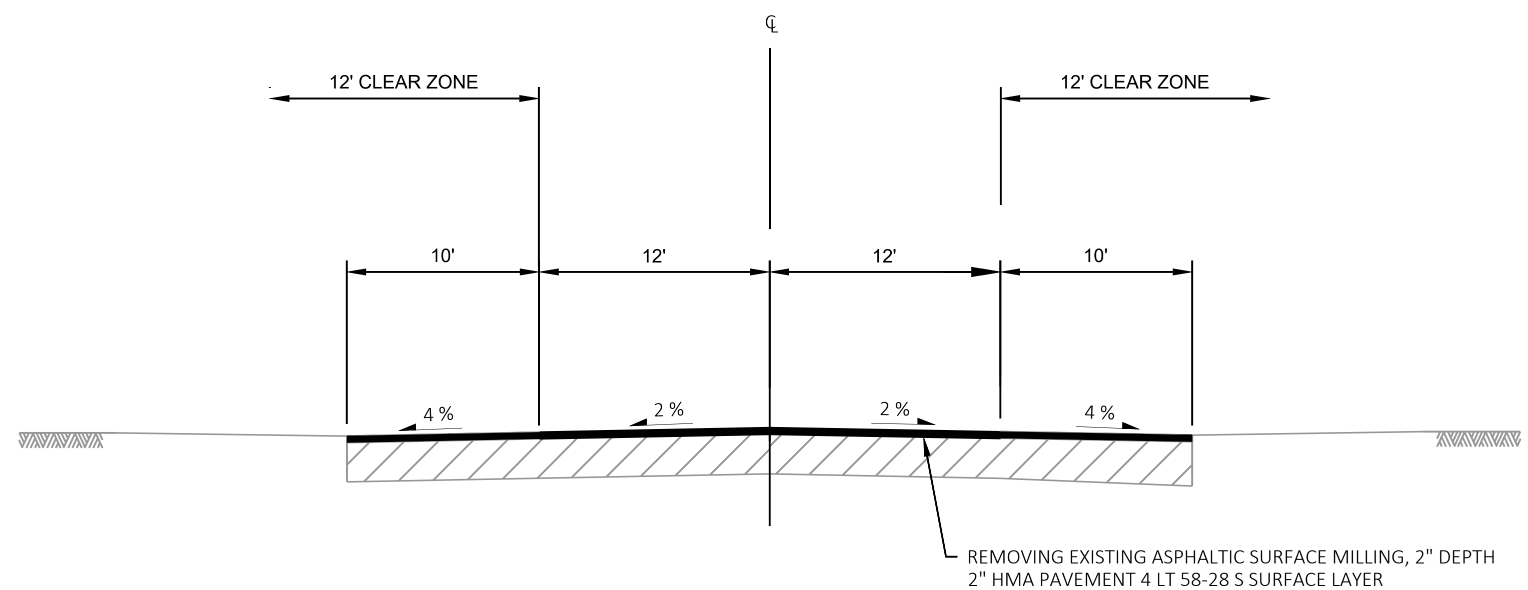


*CLEAR ZONE WIDTH	
STATIONING	WIDTH
STA 281+12 - STA 325+29	24 FT
STA 325+29 - STA 354+70	14 FT

FINISHED TYPICAL SECTION

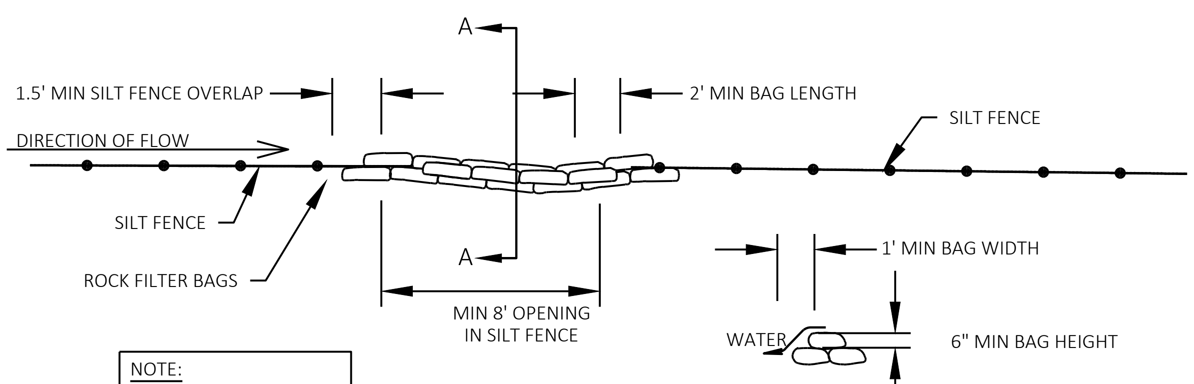
STA 281+12 - STA 354+70

2



FINISHED TYPICAL SECTION

STA 354+70 - STA 366+59

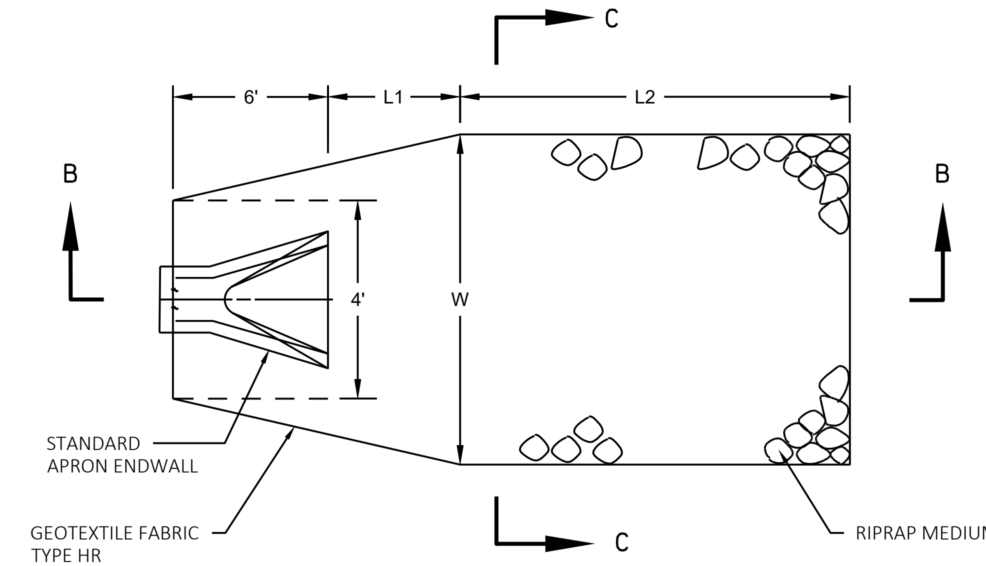


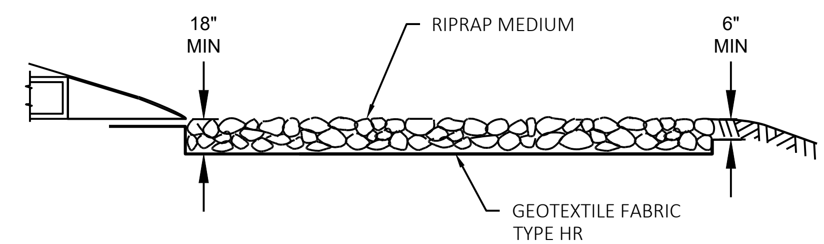
NOTE:
17 ROCK BAGS MINIMUM
PER 8' OPENING.

TOP VIEW

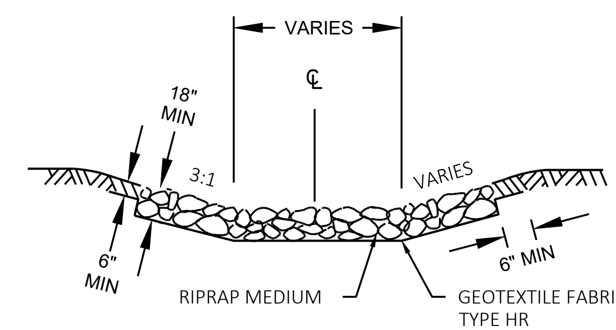
SECTION A-A

ROCK BAGS USED FOR SILT FENCE RELIEF





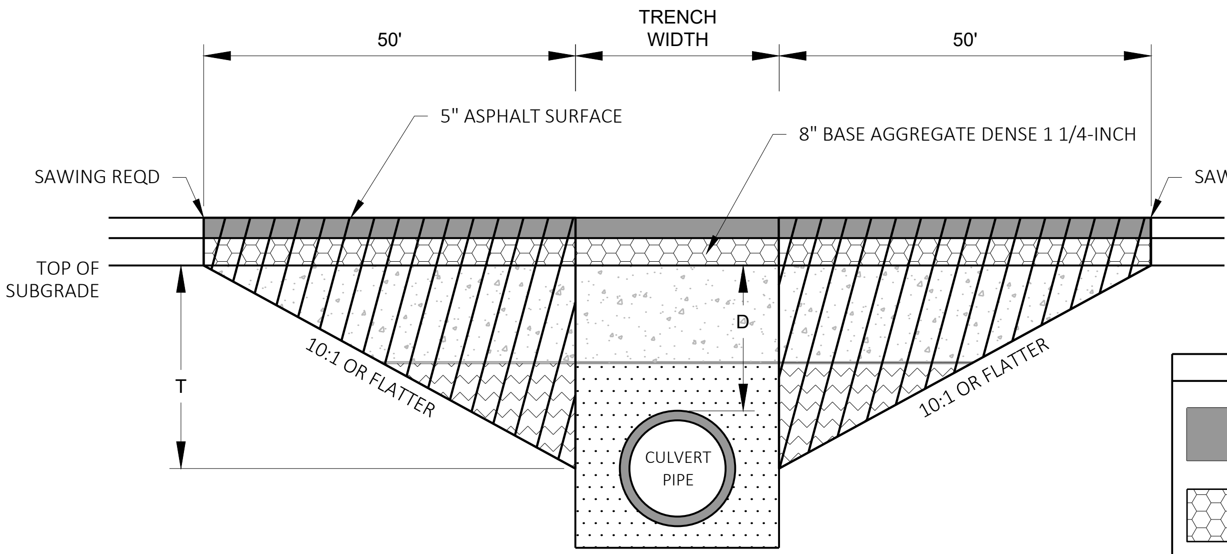
SECTION B-B



SECTION C-C

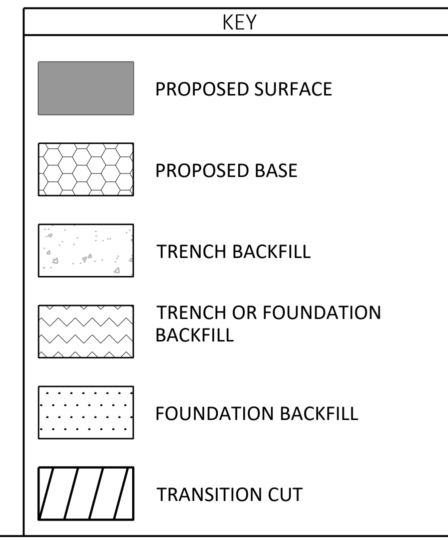
OUTLET ENDWALL RIPRAP AND GEOTEXTILE FABRIC DETAIL

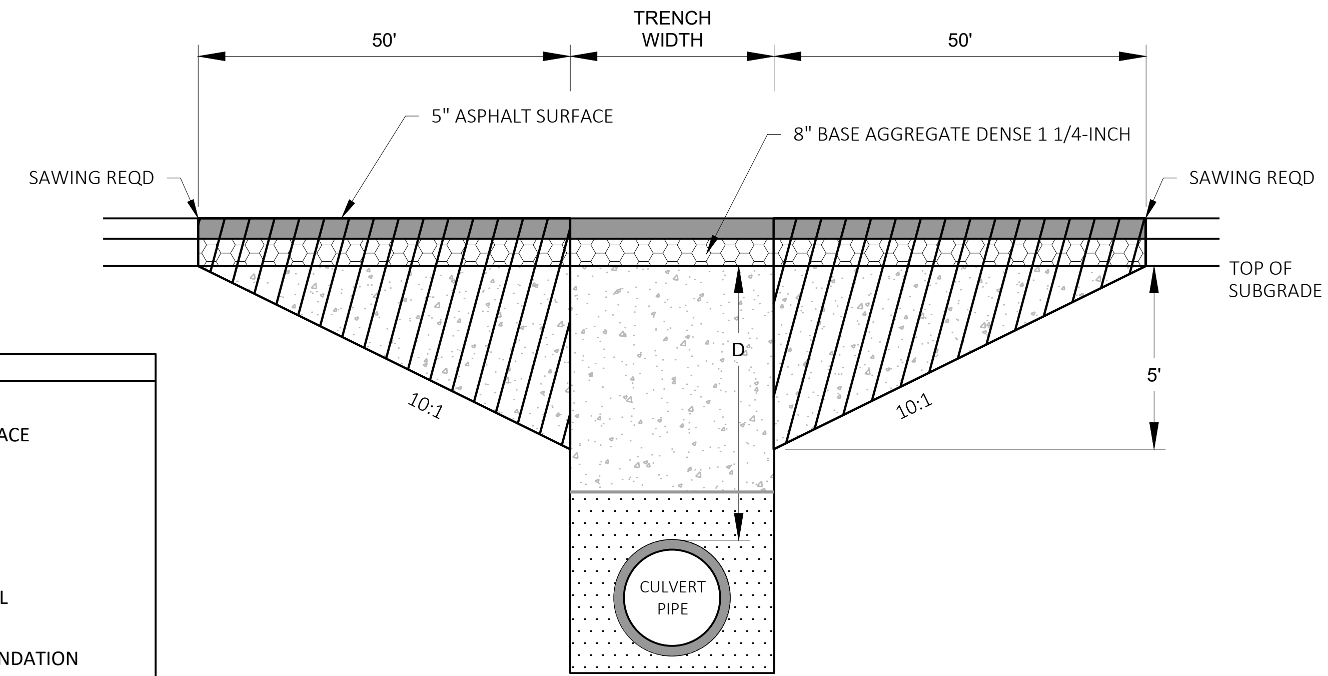
STA - STA	OFFSET	W	L1	L2
319+26 - 319+40	25' LT	12'	0'	6.5'
320+06 - 320+26	26' LT	12'	0'	12.5'



TRANSITION CUT DEPTH (T) = THE LESSER OF DEPTH TO CENTER OF PIPE OR 5 FT.
DO NOT EXTEND TRANSITION CUT BELOW HORIZONTAL CENTER OF PIPE.

DEPTH D < 6 FT





DEPTH D ≥ 6 FT

NOTES

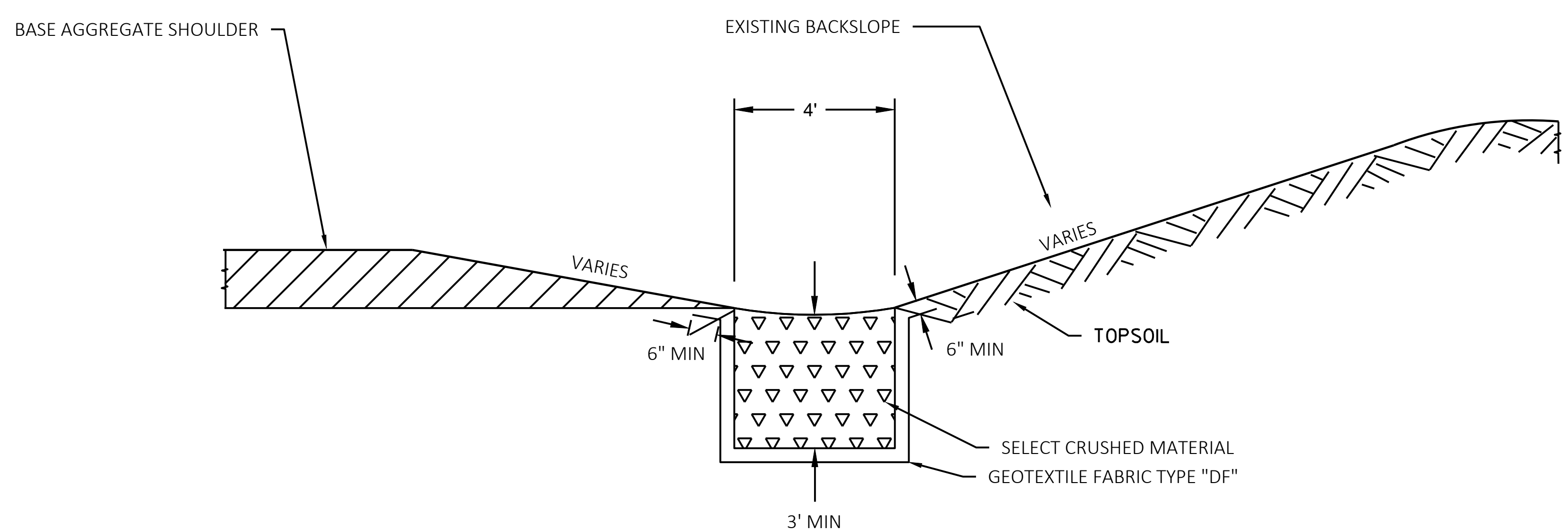
TRANSITION CUT IS PAID AS EXCAVATION COMMON.
TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.
BACKFILL THE TRANSITION CUT AREAS WITH FOUNDATION AND TRENCH BACKFILL AS SPECIFIED IN STANDARD SPEC 520.
PERFORM CULVERT PIPE INSTALLATION BEFORE ASPHALT MILLING AND PAVING OPERATIONS.

CULVERT PIPE TRANSITION

ROUTE	STA (CL)	DEPTH D (FT)	PIPE DIA (IN)	REMARKS
HEMLOCK LN	21+57	0.2'	12	SIDEROAD CULVERT REPLACEMENT
STH 155	35+38	0.4'	24	C-63-155-004216 REPLACEMENT
STH 155	157+10	1.0'	24	C-63-155-004220 REPLACEMENT
STH 155	184+55	2.0'	24	C-63-155-004221 REPLACEMENT
STH 155	270+16	4.5	24	C-63-155-004224 INSTALLATION
STH 155	270+55	4.1'	24	C-63-155-004224 REMOVAL
CTH C	280+89	0.3'	12	SIDEROAD CULVERT REPLACEMENT
STH 155	363+31	2.4'	24	C-63-155-004227 REPLACEMENT

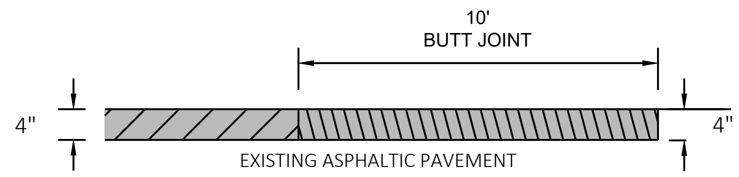
2

2



SELECT CRUSHED MATERIAL DITCH INFILTRATION TRENCH

SEE EROSION CONTROL SHEETS FOR MORE DETAILS



MAINLINE BUTT JOINT DETAIL

STA 0+77 - STA 0+87

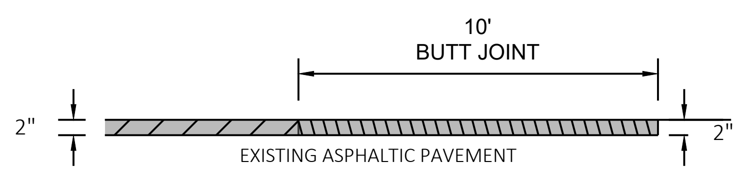
HMA PAVEMENT

REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS

BUTT JOINTS

MAINLINE



MAINLINE BUTT JOINT DETAIL

STA 366+49 - STA 366+59

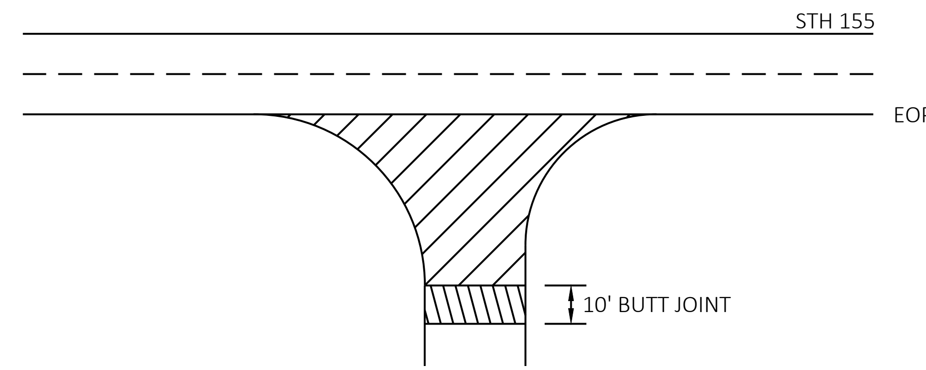
HMA PAVEMENT

REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS

BUTT JOINTS

MAINLINE AND SIDEROADS



REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS
SEE BUTT JOINT DETAIL

NOTE: WHEN MATCHING TO AN UNPAVED SURFACE
BUTT JOINT IS NOT REQUIRED

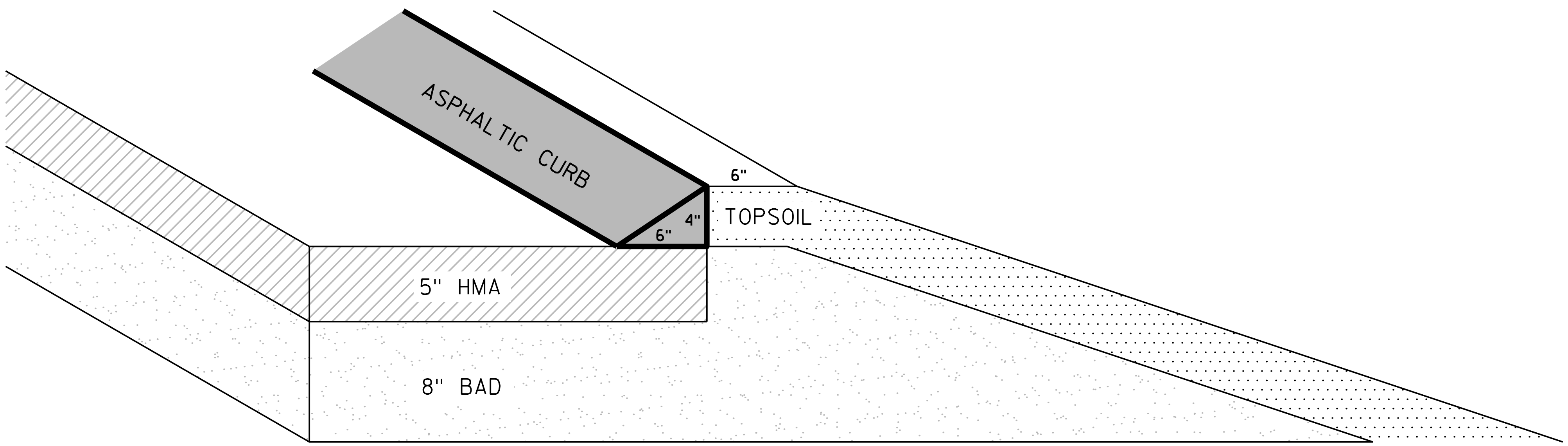
SIDE ROADS

WITHOUT CURB AND GUTTER

SCHOOL RD	LOST LAKE DR WEST
VETERAN'S DR	HEELER RD
BIRCHWOOD DR	LEONARD LANE
HEMLOCK LANE	LOLLY COOGAN LANE
WEBER LANE	CTY HWY C
LEISURE LANE	PINE ACRES BLVD
HALF MILE RD	WHITE PINE LANE
APACHE TRAIL	BIRCH SPRINGS RD
APACHE TRAIL	KURTZWEIL RD (RT)
PEDYCORT RD	PLUM LAKE DR (LT)
JUVE RD	PLUM LAKE DR (RT)
BIG ST GERMAIN DR	KURTZWEIL RD (LT)
LOST LAKE DR SOUTH	FROELICH ST
LOST LAKE RD	CTY HWY N EAST
GABE LANE	PETERSON ST
LOST LAKE DR NORTH	OLSON ST

2

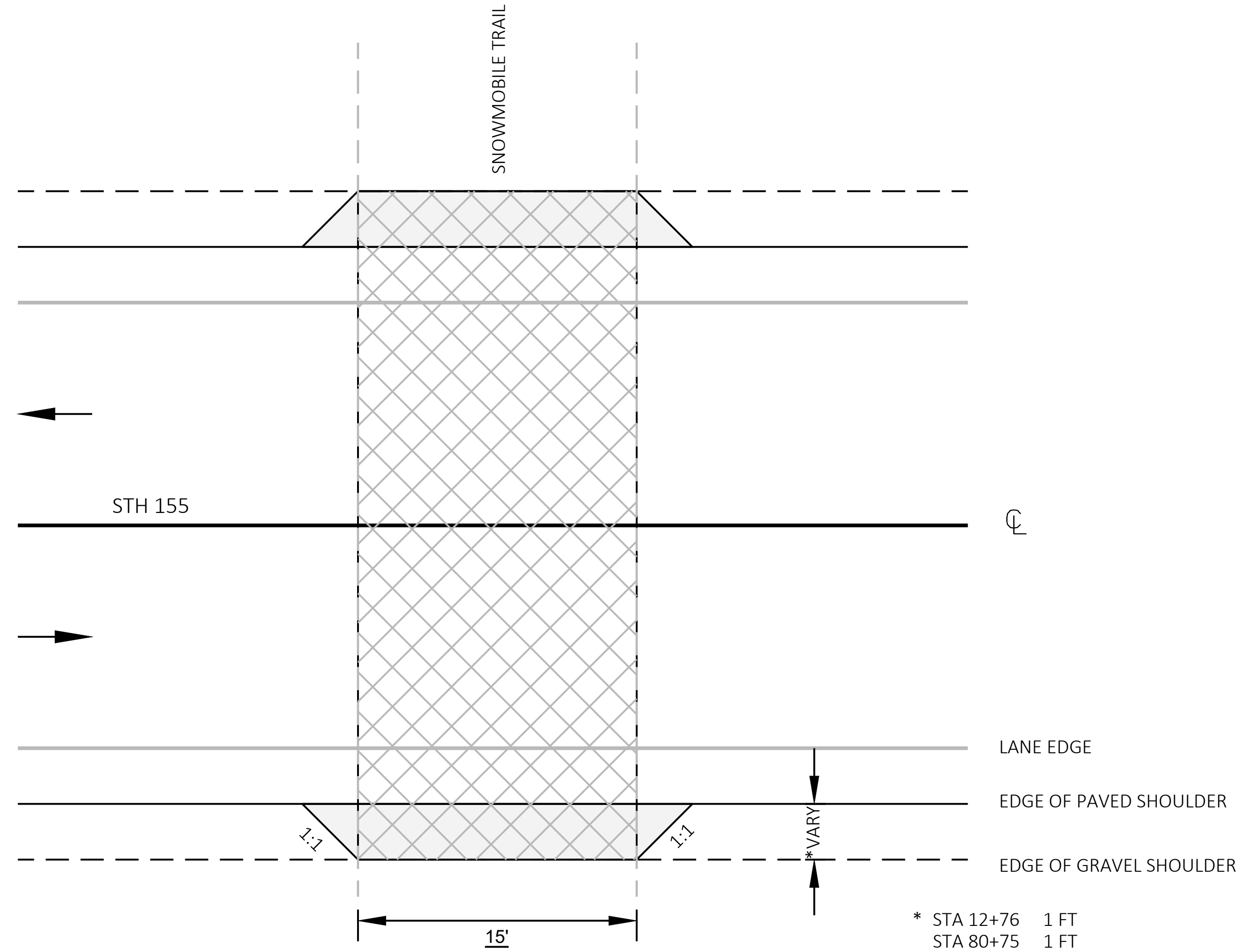
2



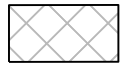
ASPHALTIC CURB

STA 363+22 - STA 363+37 RT 6"x4" 8 LF

STA 363+24 - STA 363+69 LT 6"x4" 8 LF



*	STA 12+76	1 FT
	STA 80+75	1 FT
	STA 121+74	1 FT
	STA 171+41	3 FT
	STA 250+55	3 FT
	STA 279+04	3 FT
	STA 320+03	1 FT
	STA 355+18	0 FT

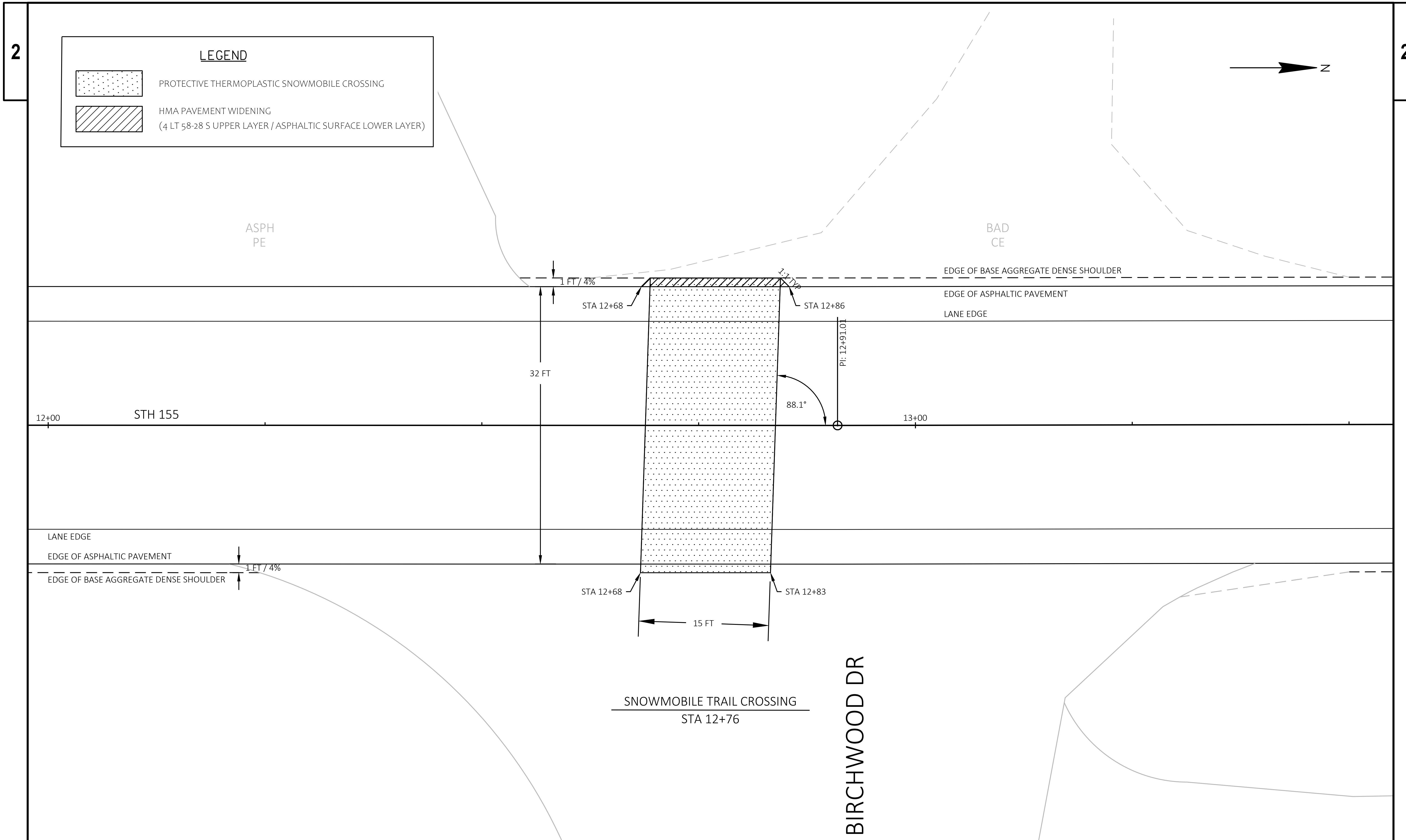

PROTECTIVE THERMOPLASTIC COATING AT SNOWMOBILE TRAIL CROSSING


HMA PAVEMENT 4-INCHES (4 LT 58-28 S UPPER LIFT / ASPHALTIC SURFACE LOWER LIFT)

NOTE: PREPARATION FOR PAVEMENT WIDENING FALLS UNDER
PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

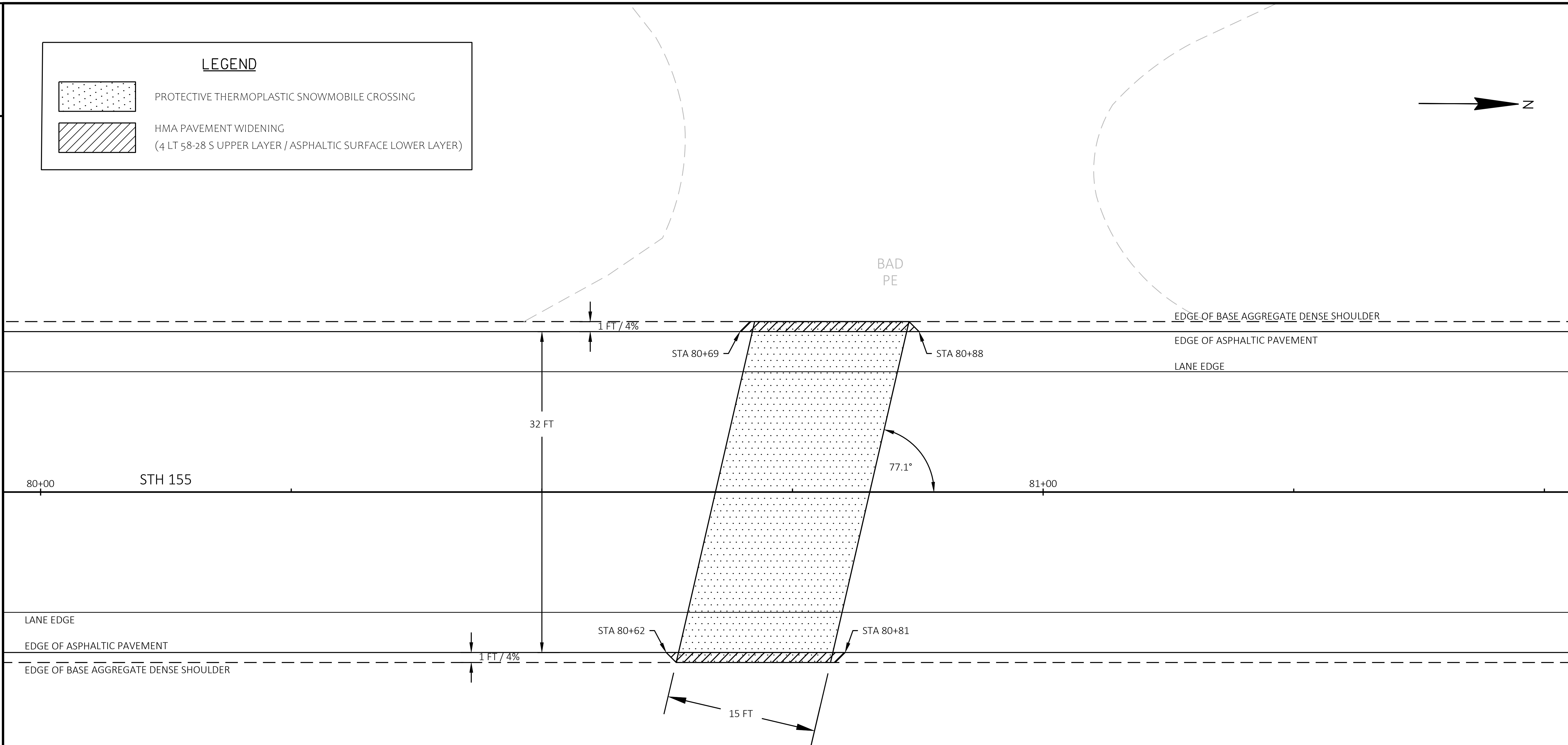
SNOWMOBILE TRAIL CROSSING WITH FULL WIDTH SHOULDERS AND PROTECTIVE COATING

STA 12+76
STA 80+75
STA 121+74
STA 171+41
STA 250+55
STA 279+04
STA 320+03
STA 355+18



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CONSTRUCTION DETAILS - PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING	SHEET 16	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 01
PLOT DATE : 3/23/2022 7:19 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

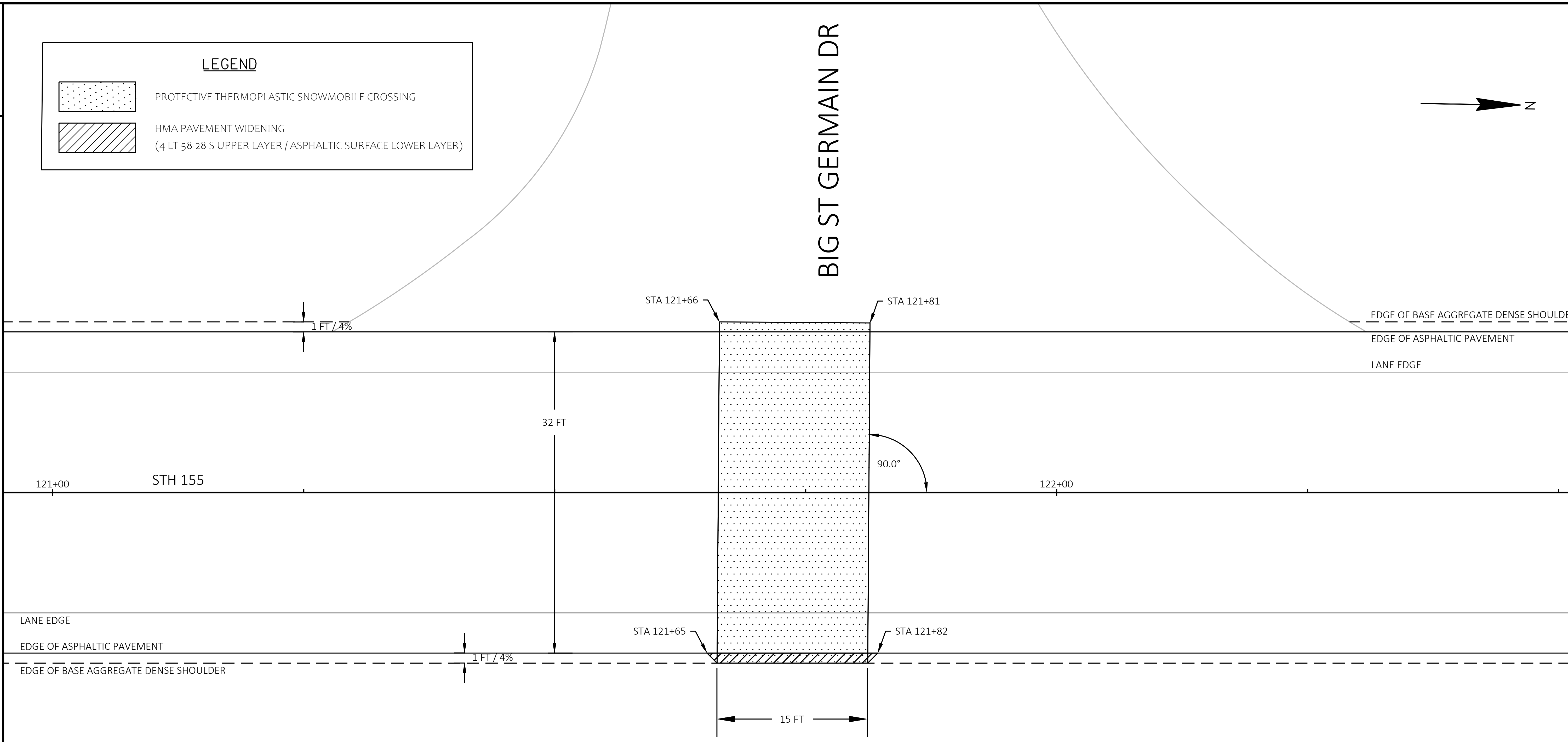


SNOWMOBILE TRAIL CROSSING
STA 80+75

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CONSTRUCTION DETAILS - PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING	SHEET 17	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 02
PLOT DATE : 3/23/2022 7:19 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



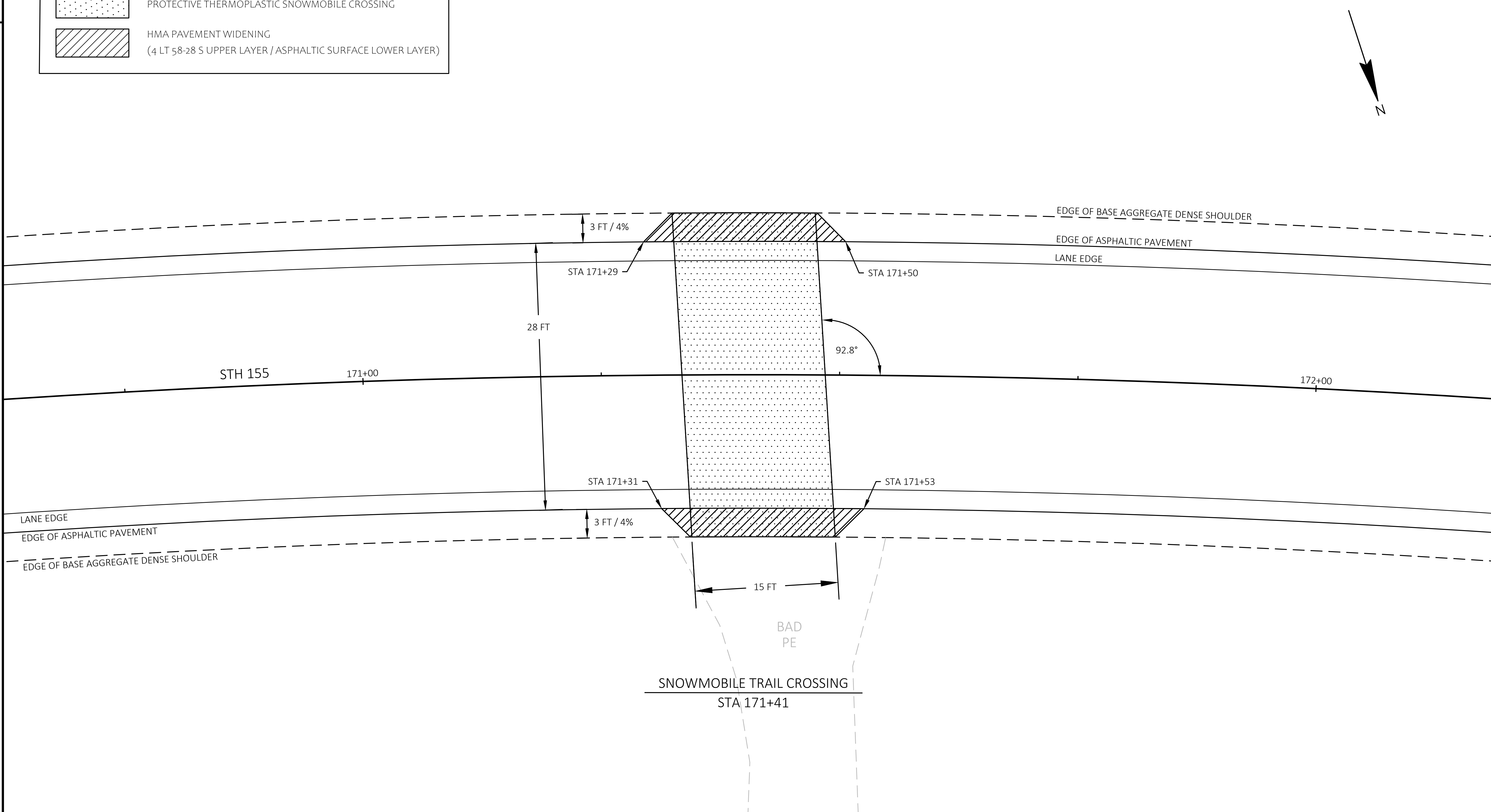
SNOWMOBILE TRAIL CROSSING
STA 121+74

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CONSTRUCTION DETAILS - PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING	SHEET 18	E

2

LEGEND

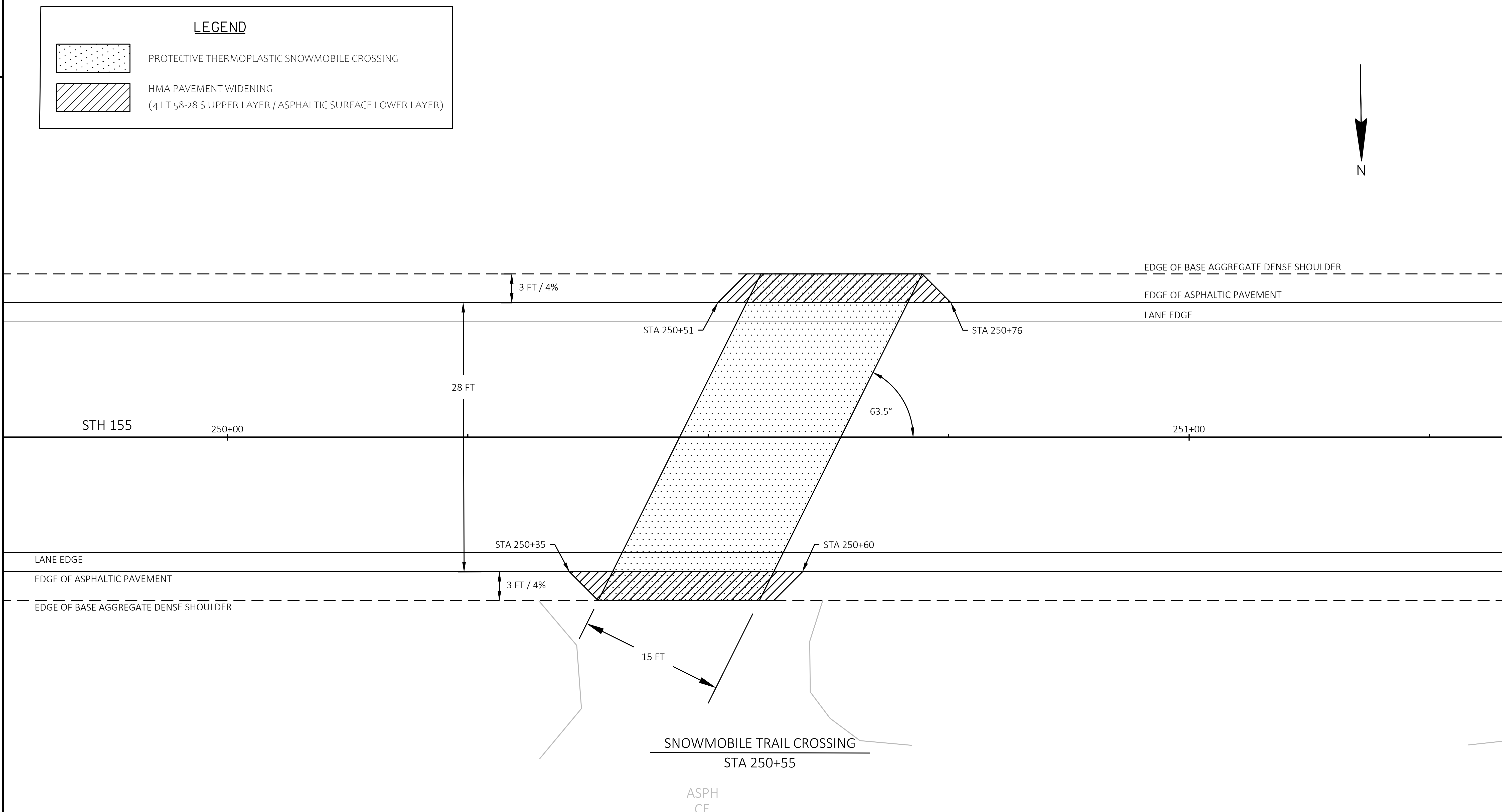
- PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING
- HMA PAVEMENT WIDENING (4 LT 58-28 S UPPER LAYER / ASPHALTIC SURFACE LOWER LAYER)



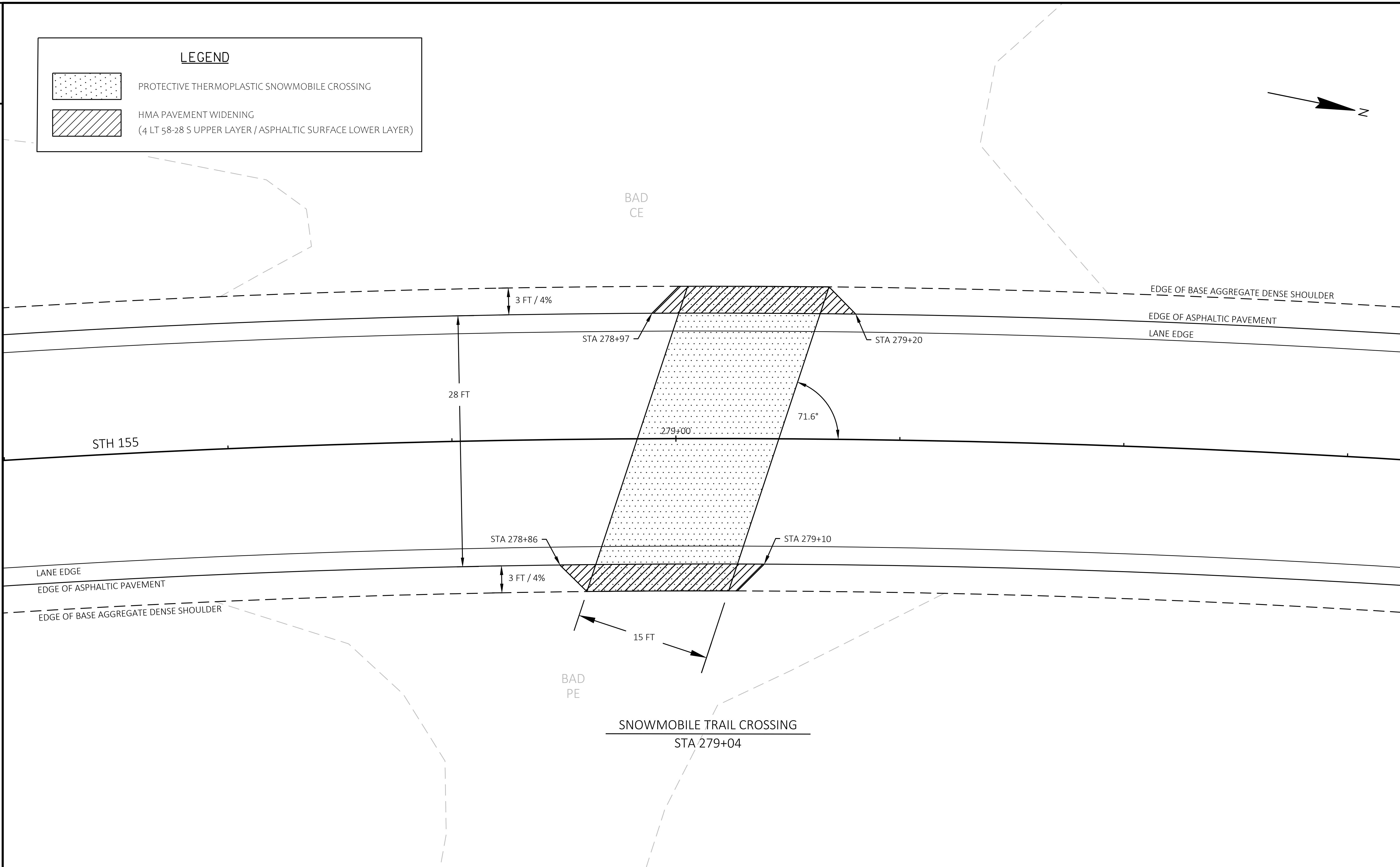
SNOWMOBILE TRAIL CROSSING
STA 171+41

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CONSTRUCTION DETAILS - PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING	SHEET 19	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 04
PLOT DATE : 3/23/2022 7:19 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CONSTRUCTION DETAILS - PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING	SHEET 20	E



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CONSTRUCTION DETAILS - PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING	SHEET 21	E

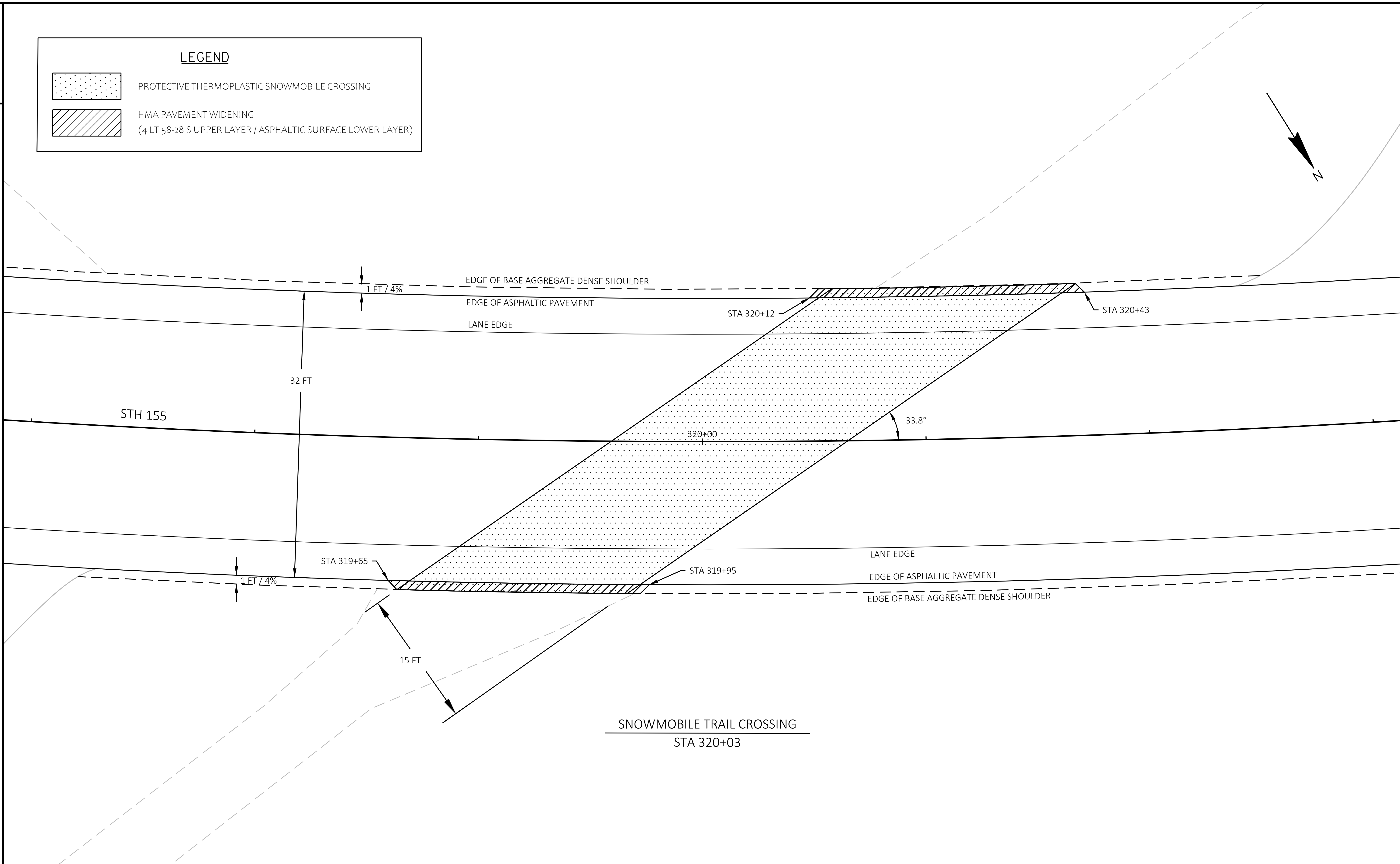
FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 06
PLOT DATE : 3/23/2022 7:19 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

LEGEND

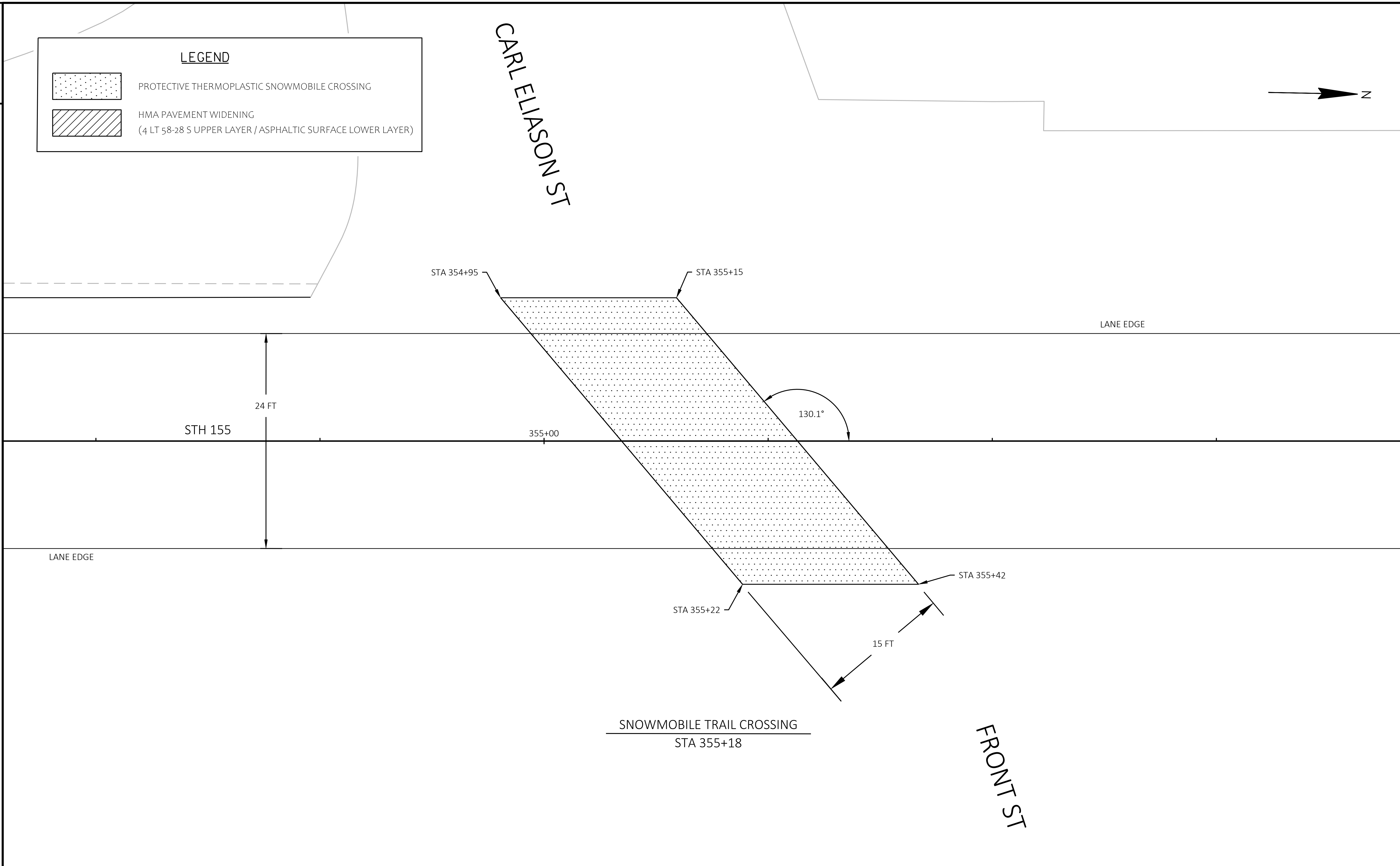
PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING

HMA PAVEMENT WIDENING
(4 LT 58-28 S UPPER LAYER / ASPHALTIC SURFACE LOWER LAYER)

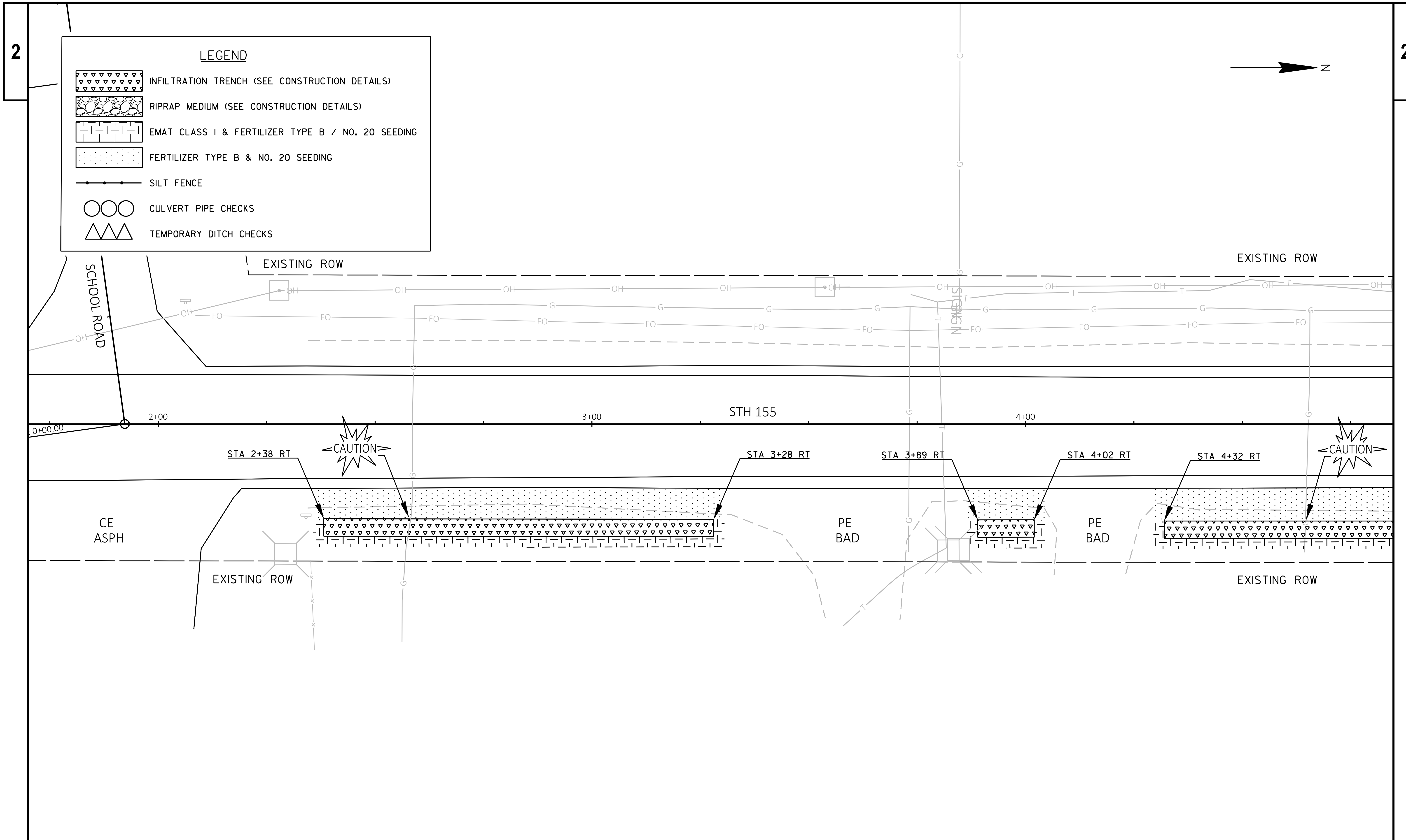


SNOWMOBILE TRAIL CROSSING
STA 320+03

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CONSTRUCTION DETAILS - PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING	SHEET 22	E

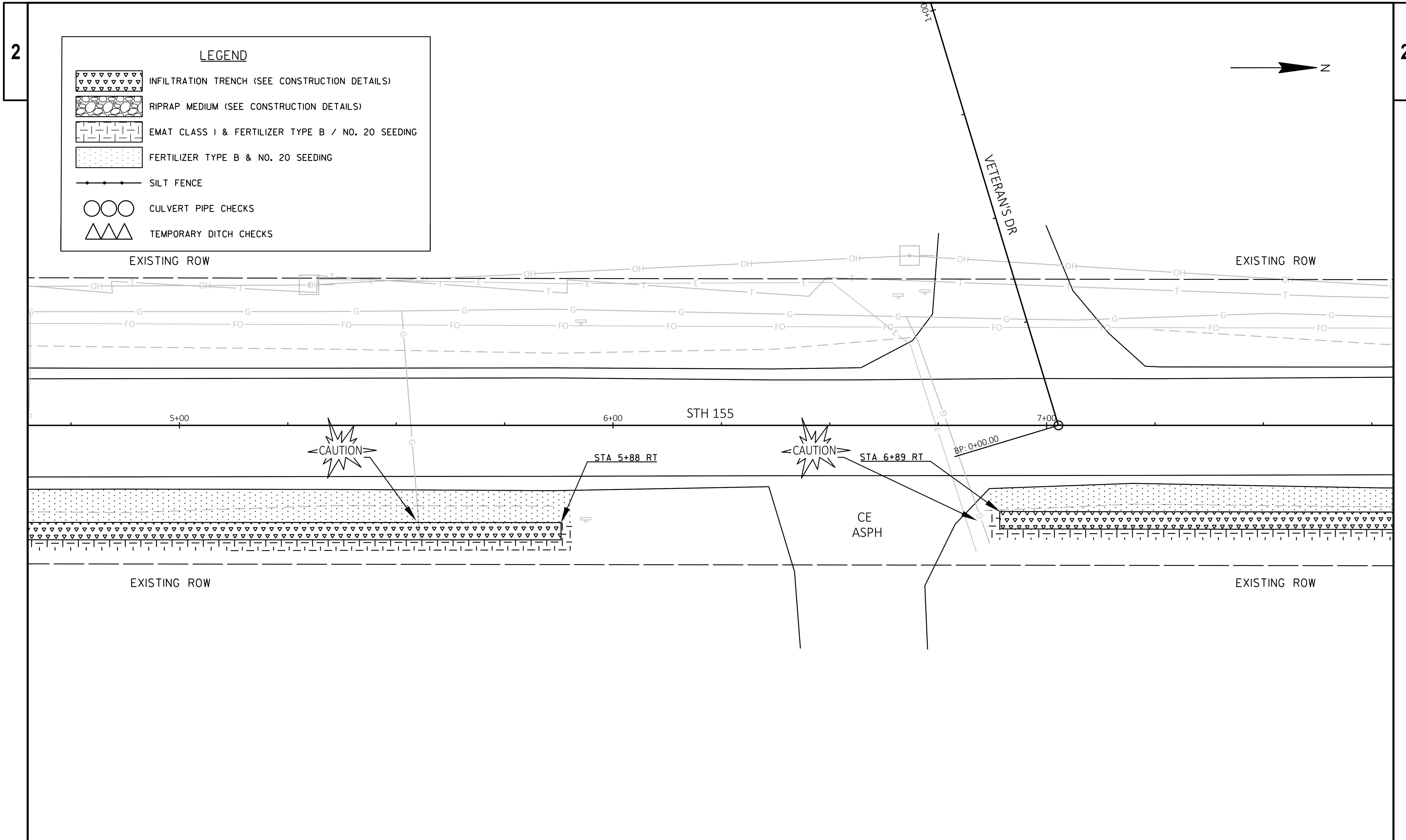


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CONSTRUCTION DETAILS - PROTECTIVE THERMOPLASTIC SNOWMOBILE CROSSING	SHEET 23	E

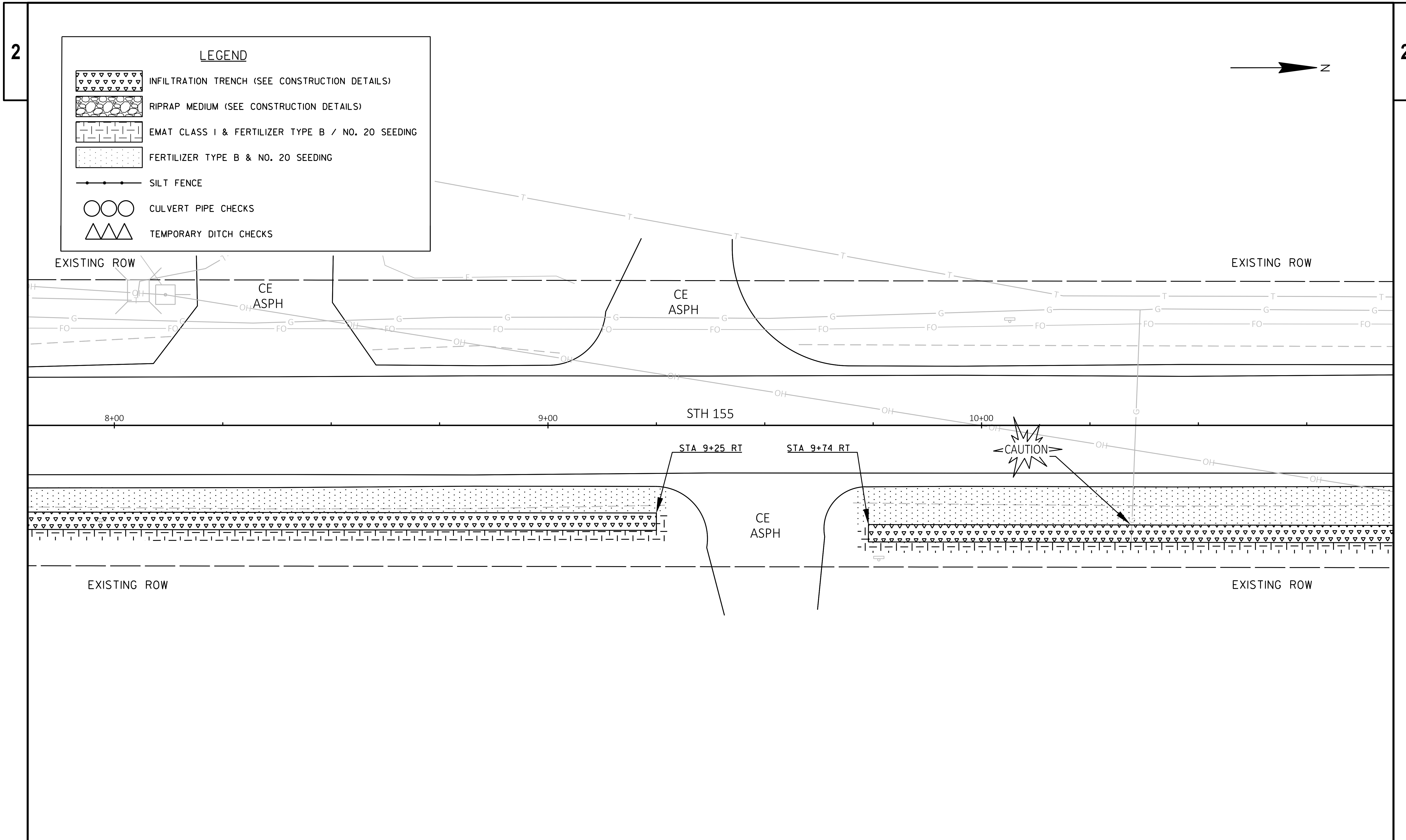


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - RT INFILTRATION TRENCH INSTALLATION	SHEET 24	E

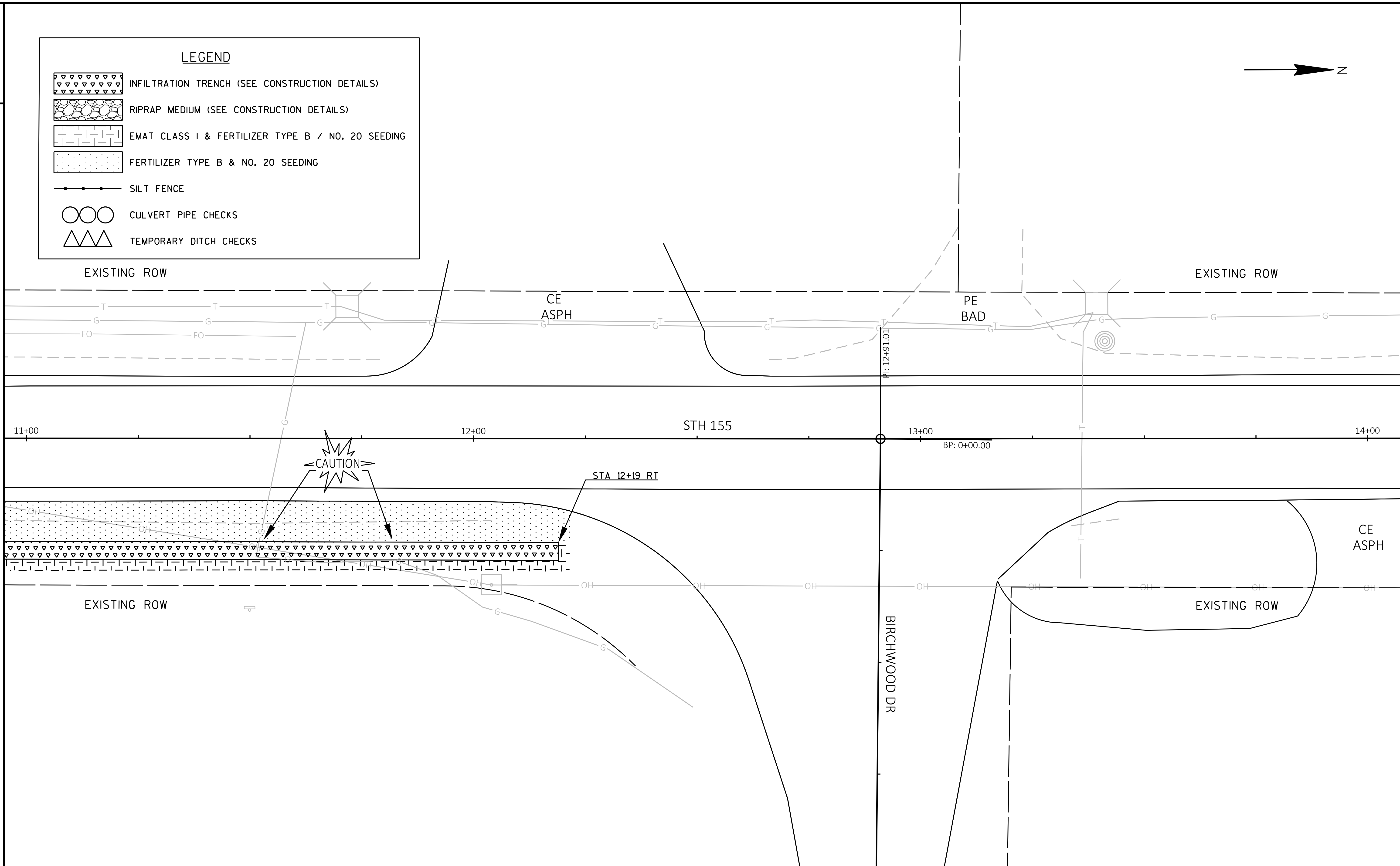
FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - D01
PLOT DATE : 9/27/2023 8:06 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - RT INFILTRATION TRENCH INSTALLATION	SHEET 25	E



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - RT INFILTRATION TRENCH INSTALLATION	SHEET 26	E



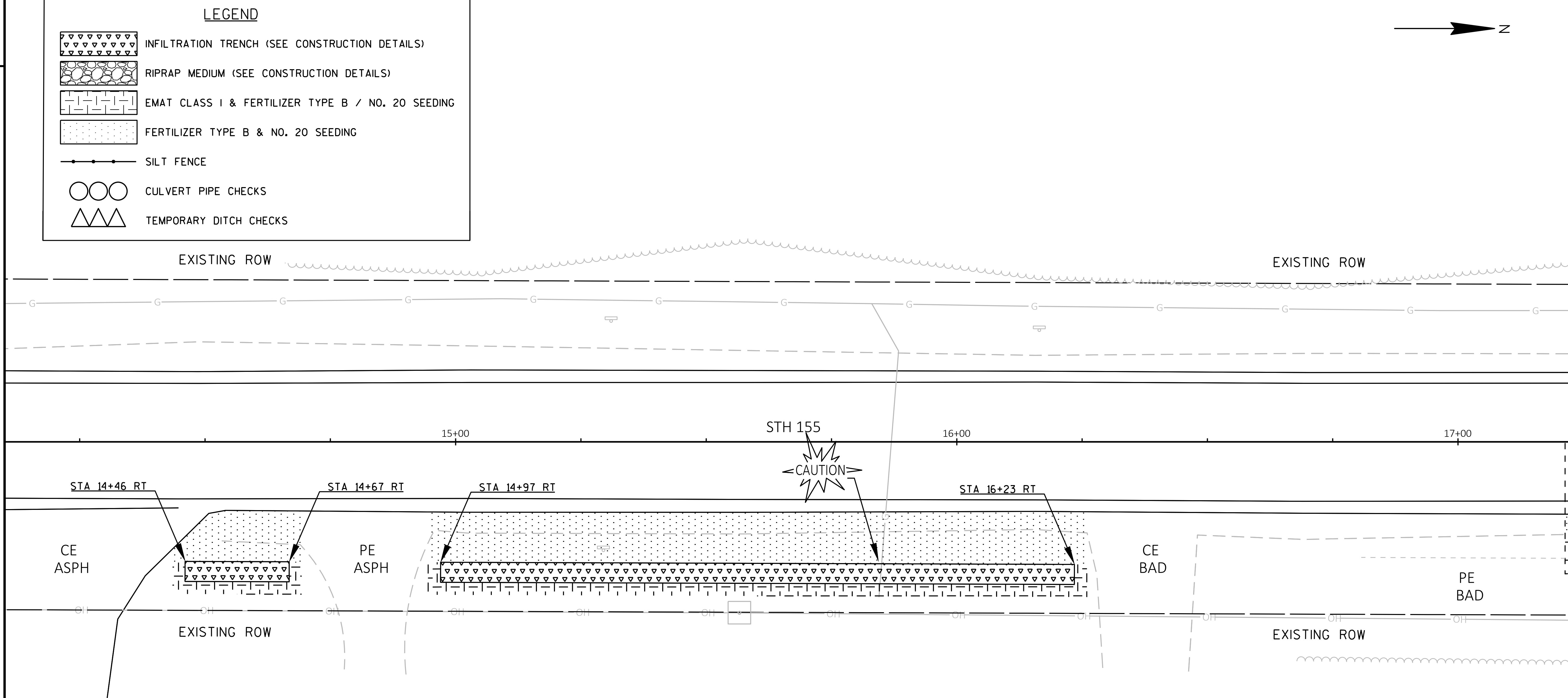
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - RT INFILTRATION TRENCH INSTALLATION	SHEET 27	E

2

2

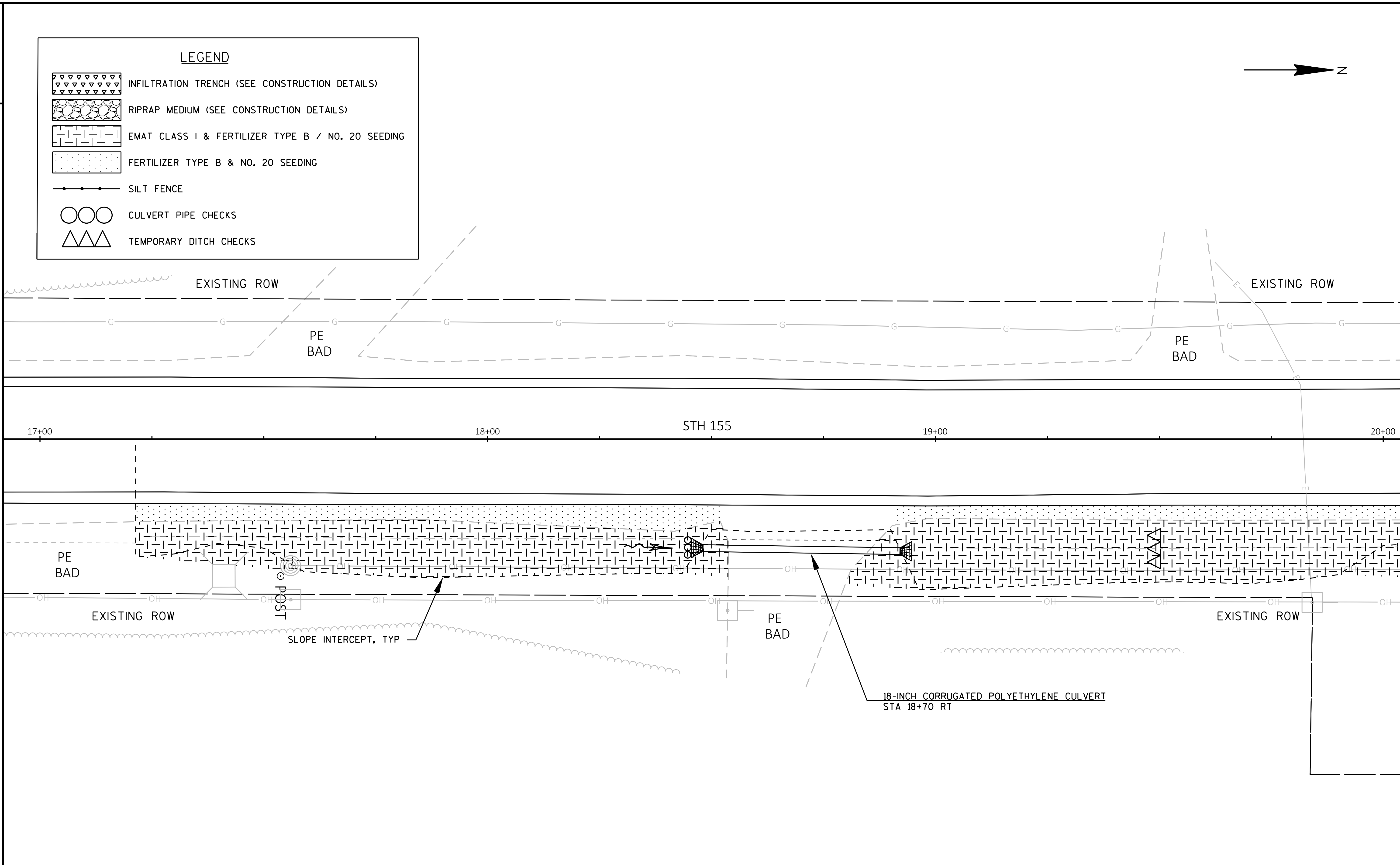
LEGEND

- INFILTRATION TRENCH (SEE CONSTRUCTION DETAILS)
- RIPRAP MEDIUM (SEE CONSTRUCTION DETAILS)
- EMAT CLASS I & FERTILIZER TYPE B / NO. 20 SEEDING
- FERTILIZER TYPE B & NO. 20 SEEDING
- SILT FENCE
- CULVERT PIPE CHECKS
- TEMPORARY DITCH CHECKS



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - RT INFILTRATION TRENCH INSTALLATION	SHEET 28	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - D05
PLOT DATE : 9/27/2023 8:06 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



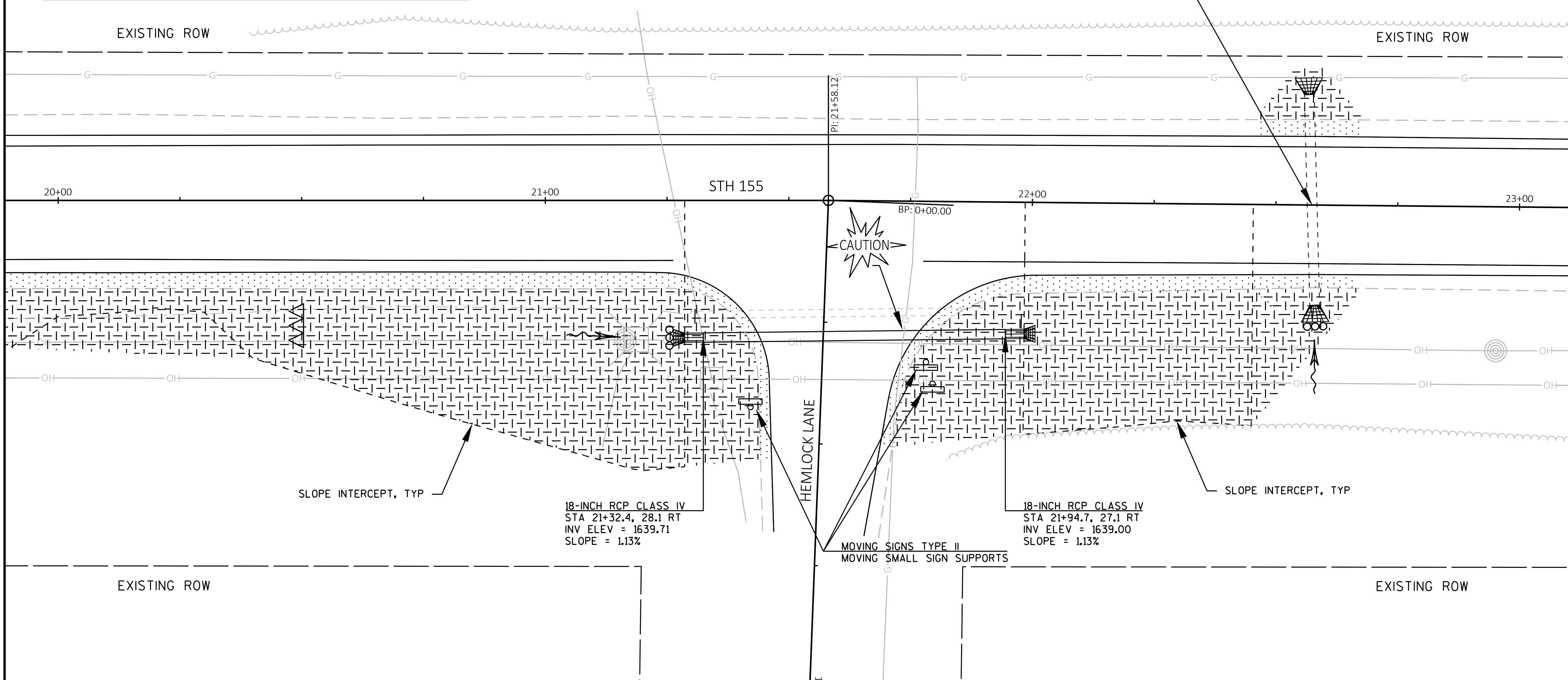
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - RT INFILTRATION TRENCH INSTALLATION	SHEET 29	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - D06
PLOT DATE : 9/27/2023 8:07 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

LEGEND

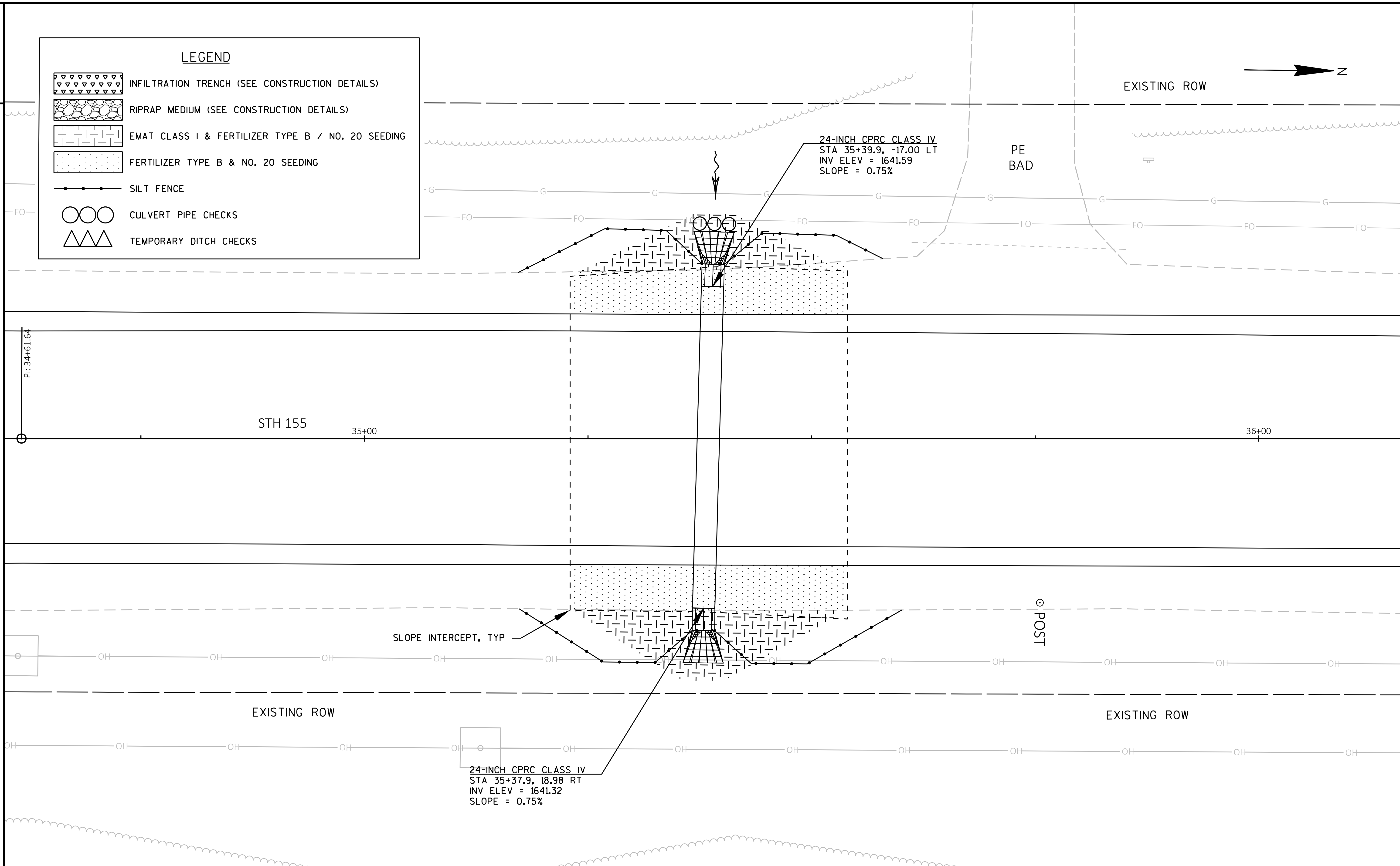
- INFILTRATION TRENCH (SEE CONSTRUCTION DETAILS)
- RIPRAP MEDIUM (SEE CONSTRUCTION DETAILS)
- EMAT CLASS I & FERTILIZER TYPE B / NO. 20 SEEDING
- FERTILIZER TYPE B & NO. 20 SEEDING
- SILT FENCE
- CULVERT PIPE CHECKS
- TEMPORARY DITCH CHECKS



2

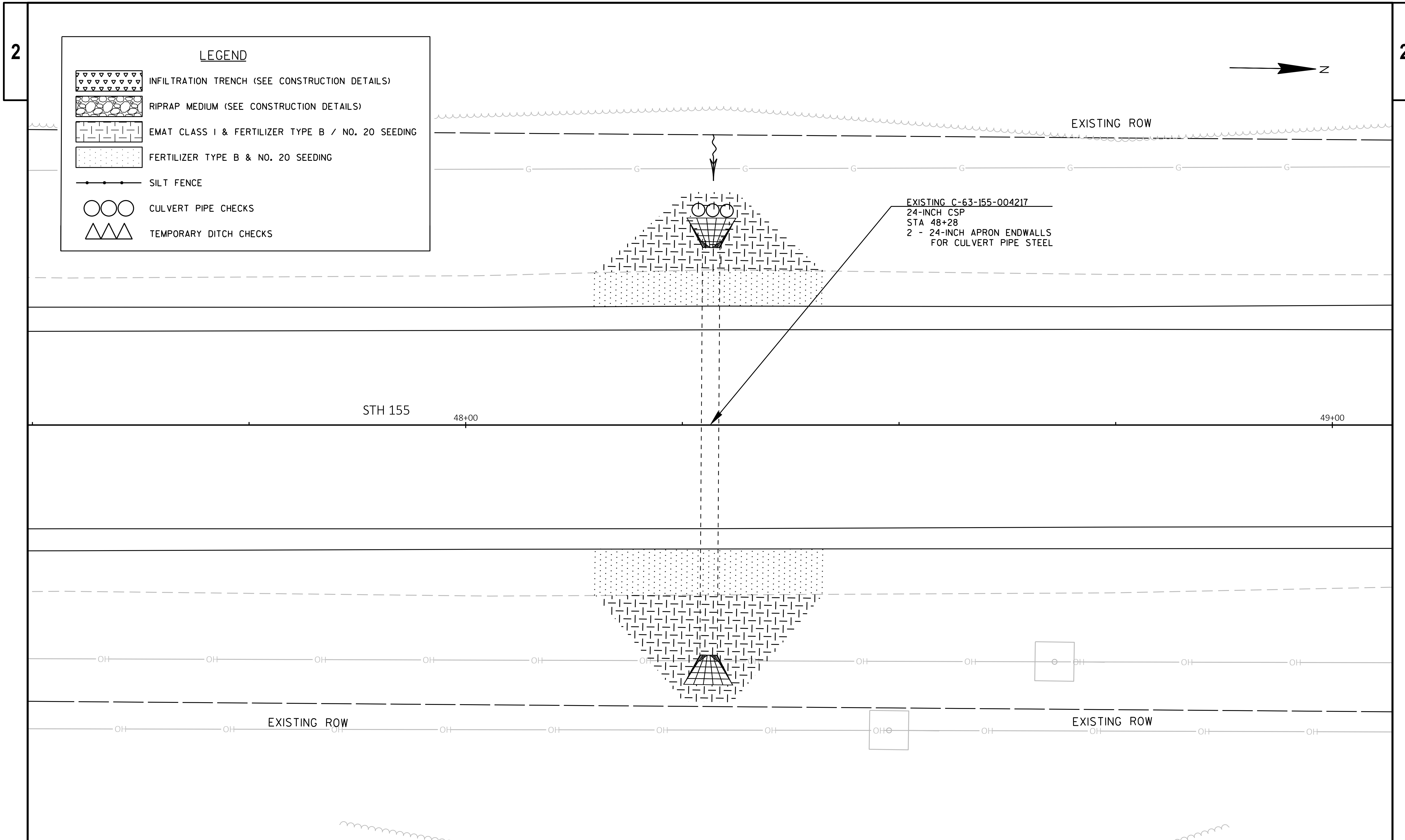
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - DITCH GRADING, HEMLOCK LN CULVERT AND ENDWALLS	SHEET 30	E

2

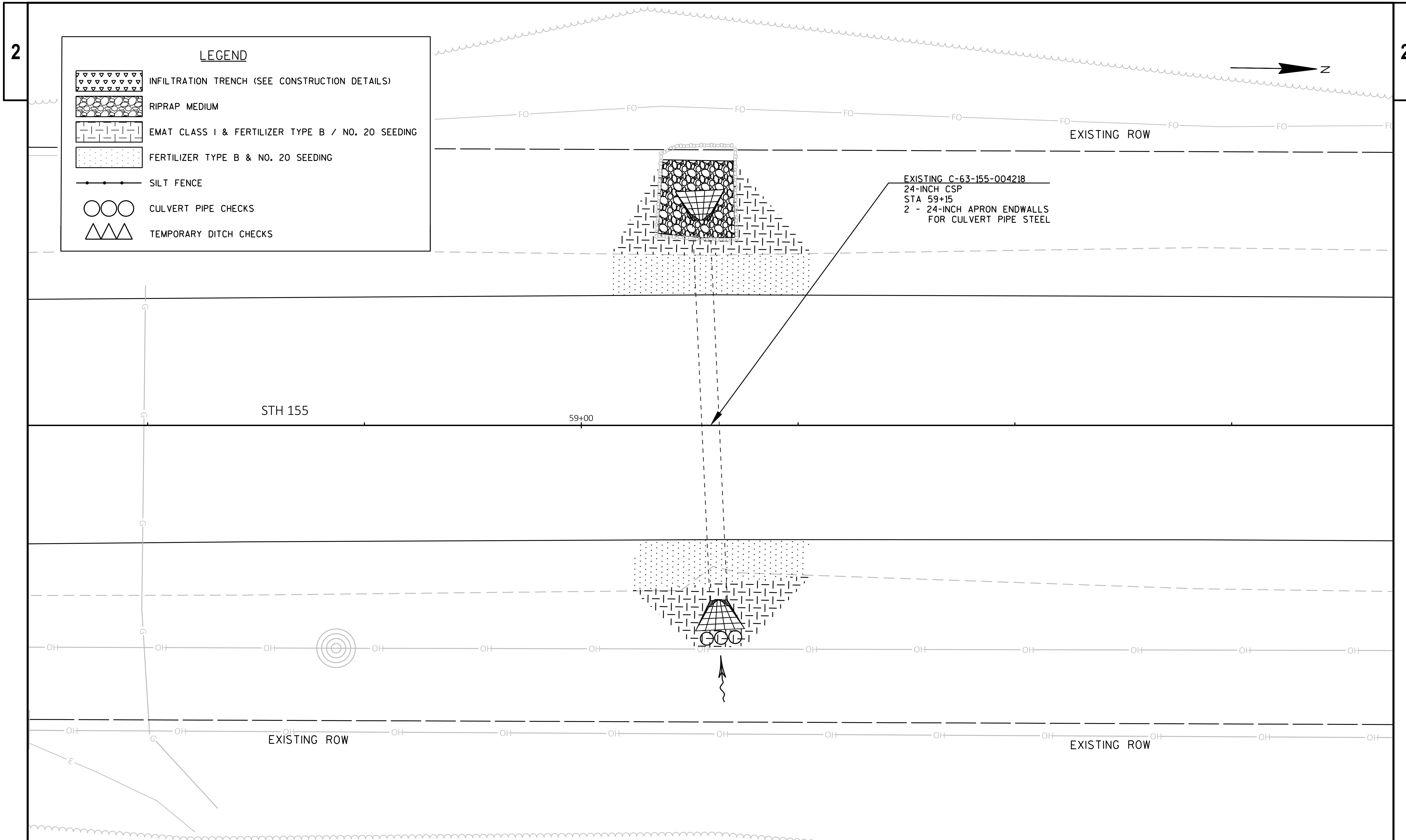


2

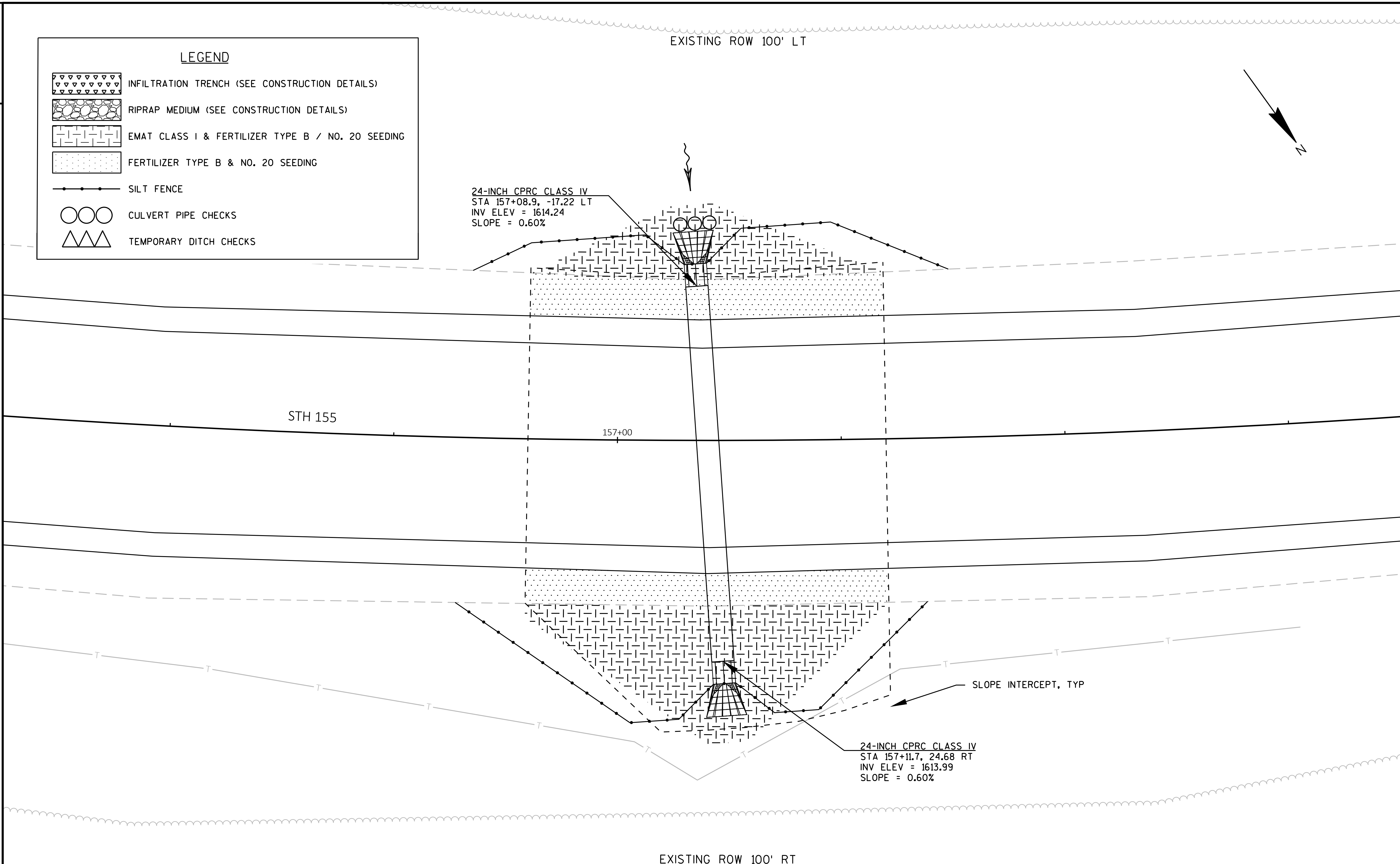
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CULVERT 63-155-004216 REPLACEMENT	SHEET 31	E



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CULVERT 63-155-004217 ENDWALL INSTALLATION	SHEET 32	E

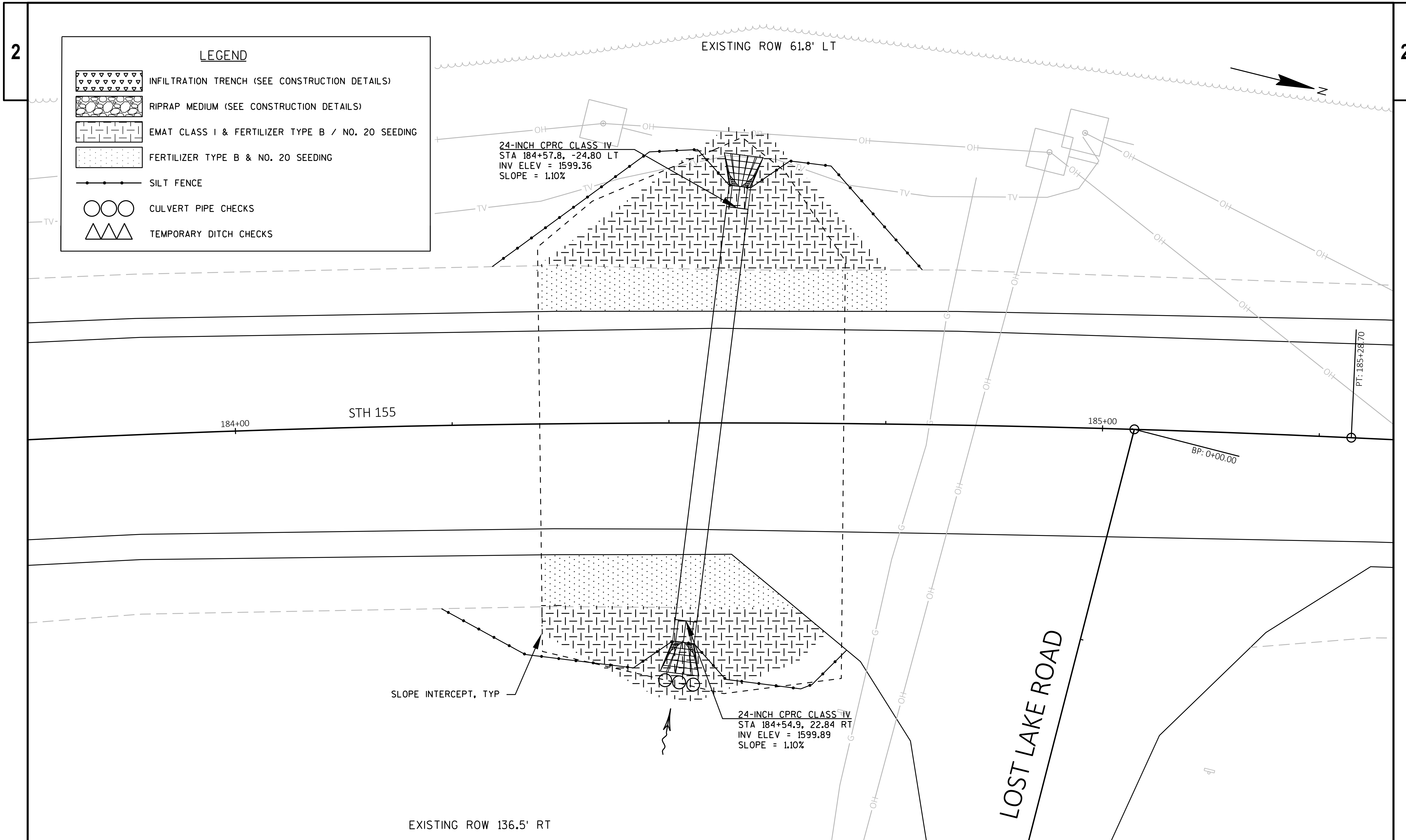


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CULVERT 63-155-004218 ENDWALL INSTALLATION	SHEET 33	E



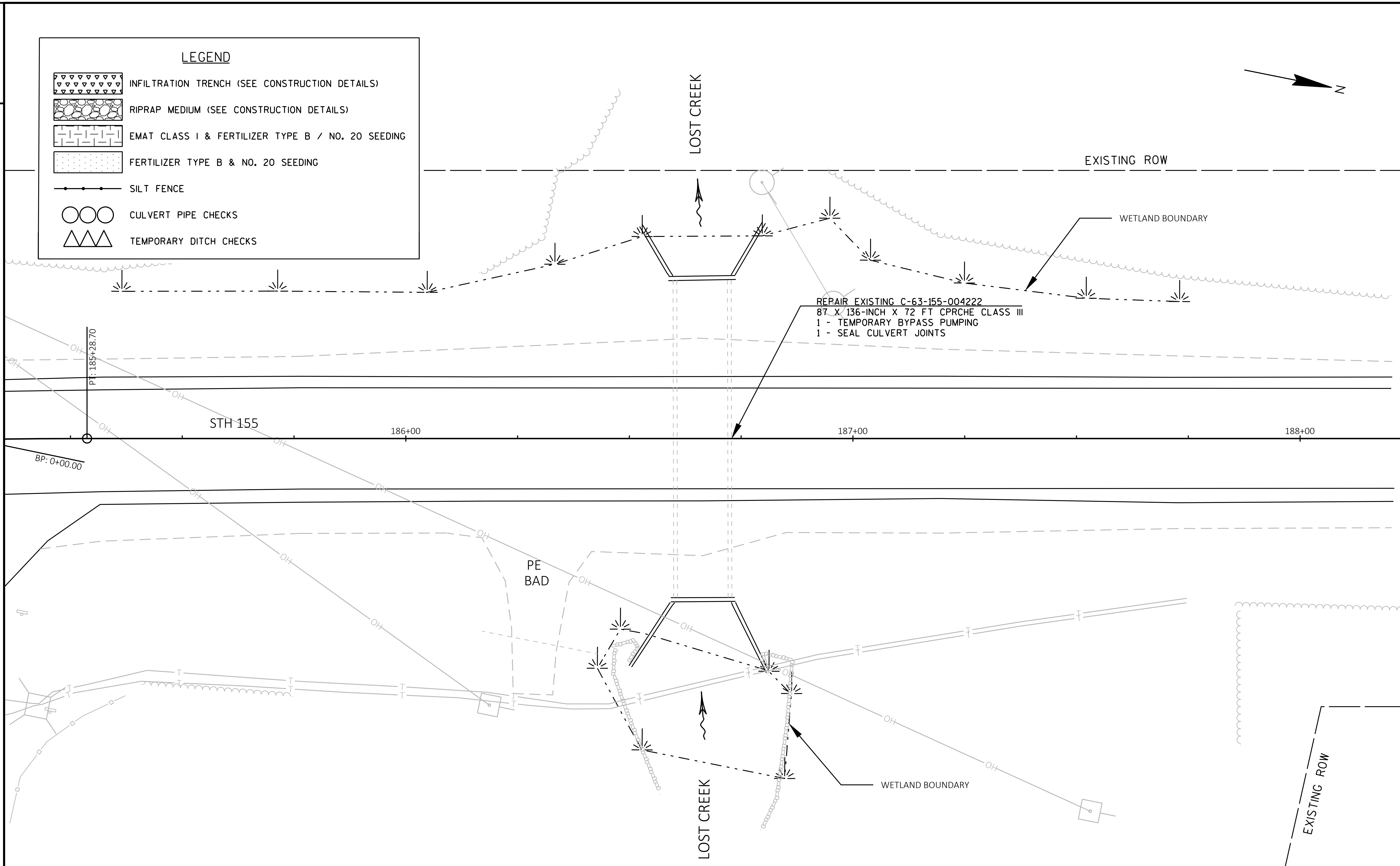
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CULVERT 63-155-004220 REPLACEMENT	SHEET 34	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - C4220
PLOT DATE : 9/27/2023 8:07 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CULVERT 63-155-004221 REPLACEMENT	SHEET 35	E

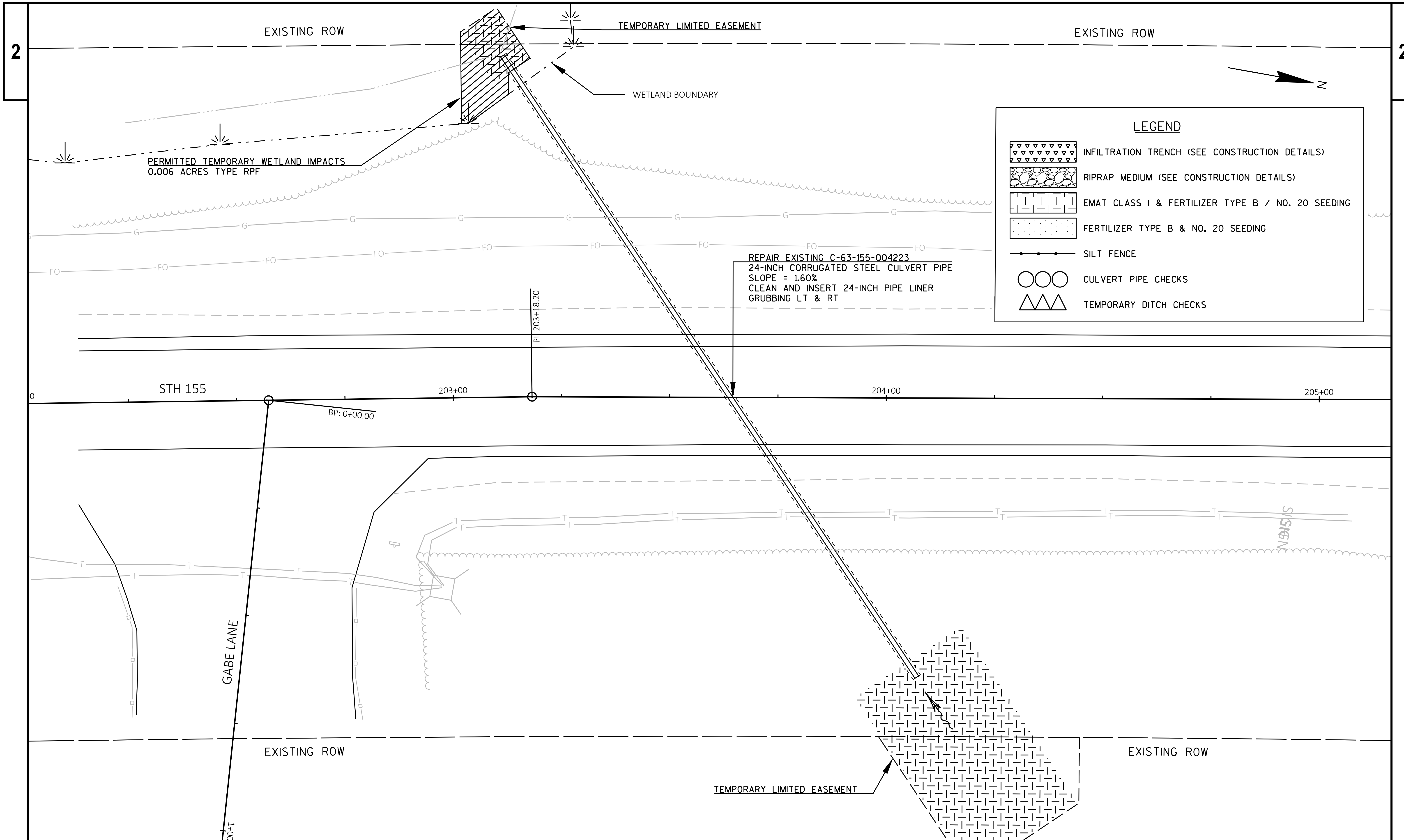
2



2

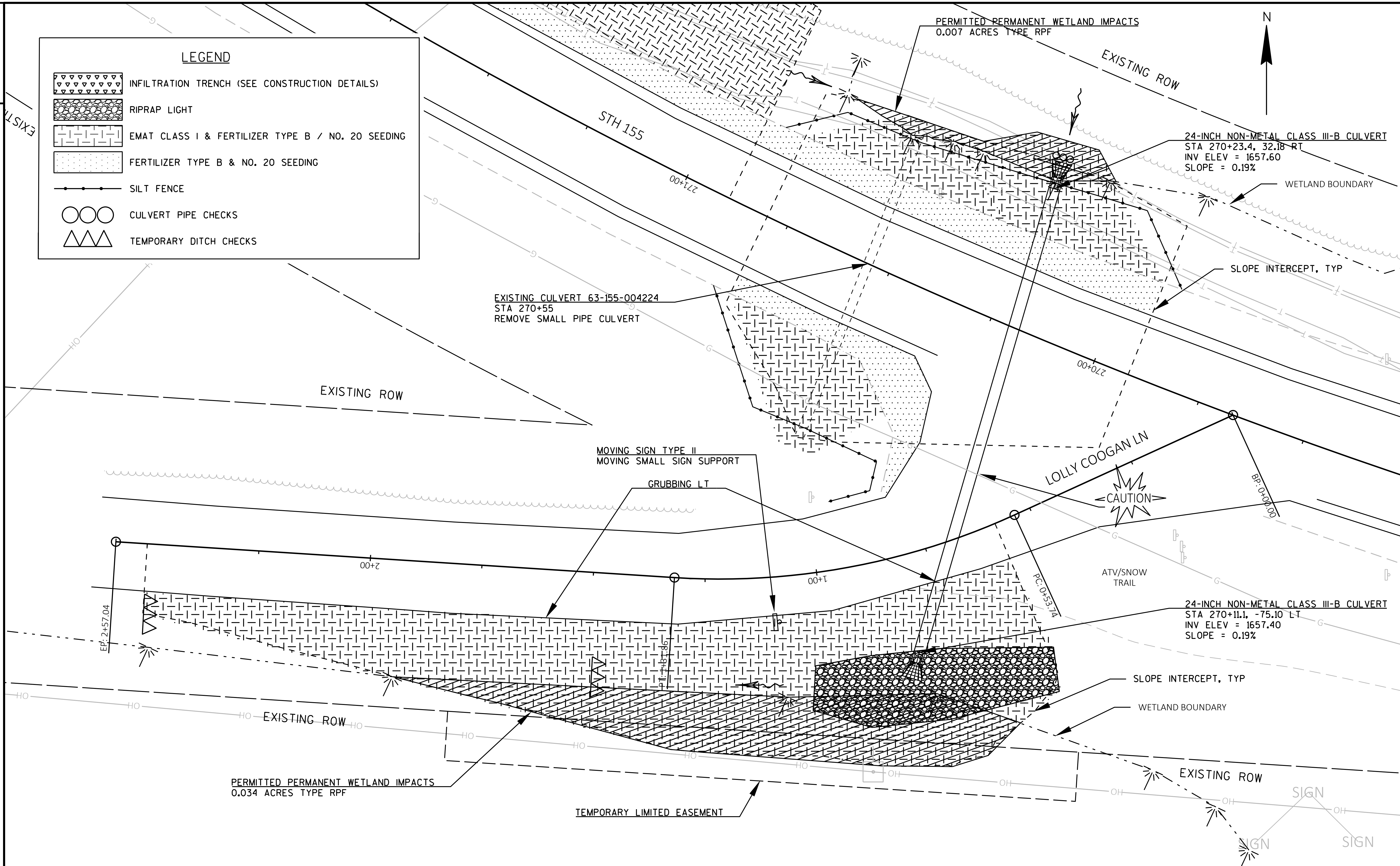
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CULVERT 63-155-004222 JOINT REPAIR	SHEET 36	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - C4222
PLOT DATE : 9/27/2023 8:08 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

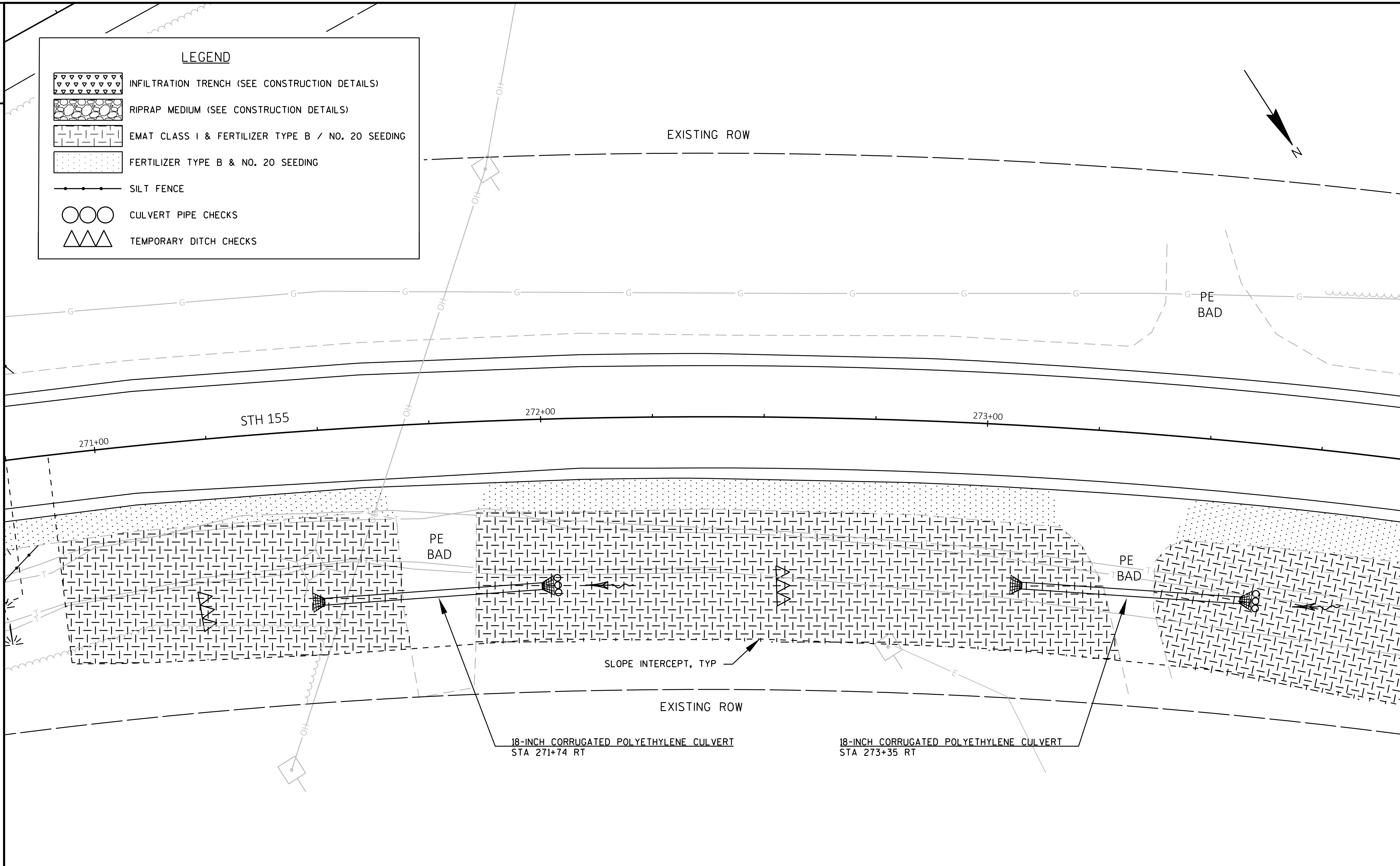


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CULVERT 63-155-004223 PIPE LINER	SHEET 37	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - C4223
PLOT DATE : 9/27/2023 8:08 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

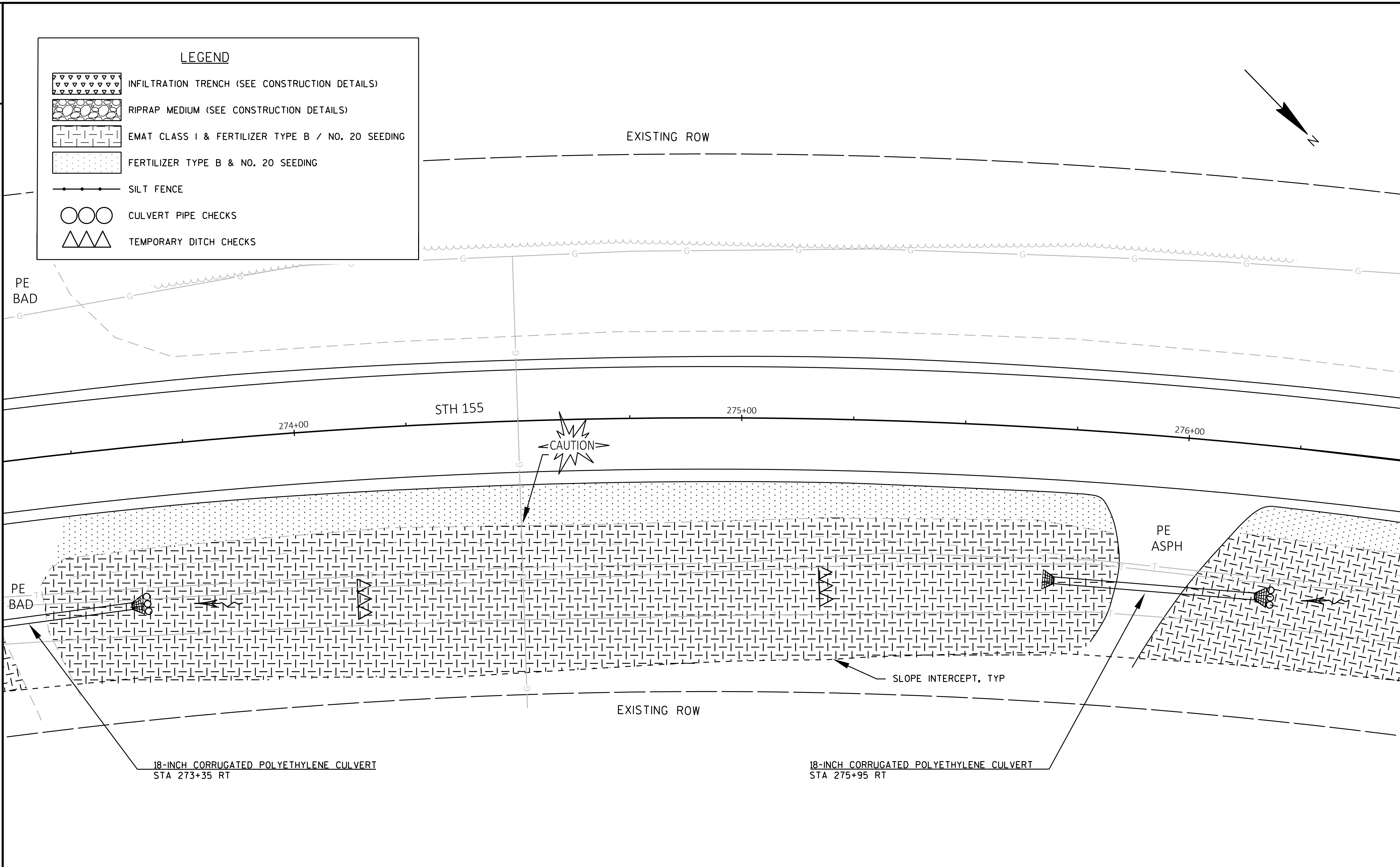


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - C-63-155-004224 REPLACEMENT & DITCH GRADING	SHEET 38	E



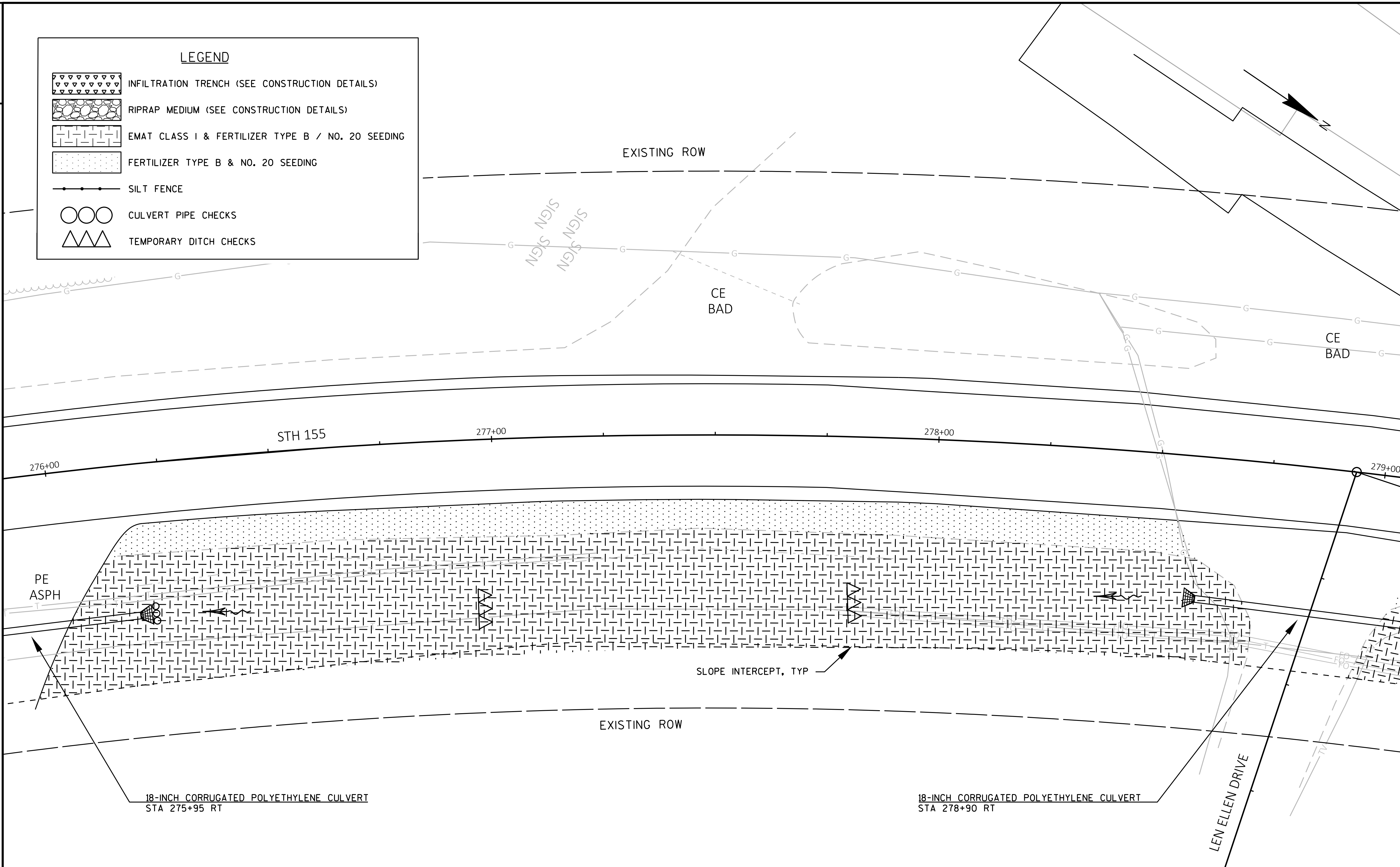
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - RT DITCH GRADING & DRIVEWAY CULVERTS	SHEET 39	E

2



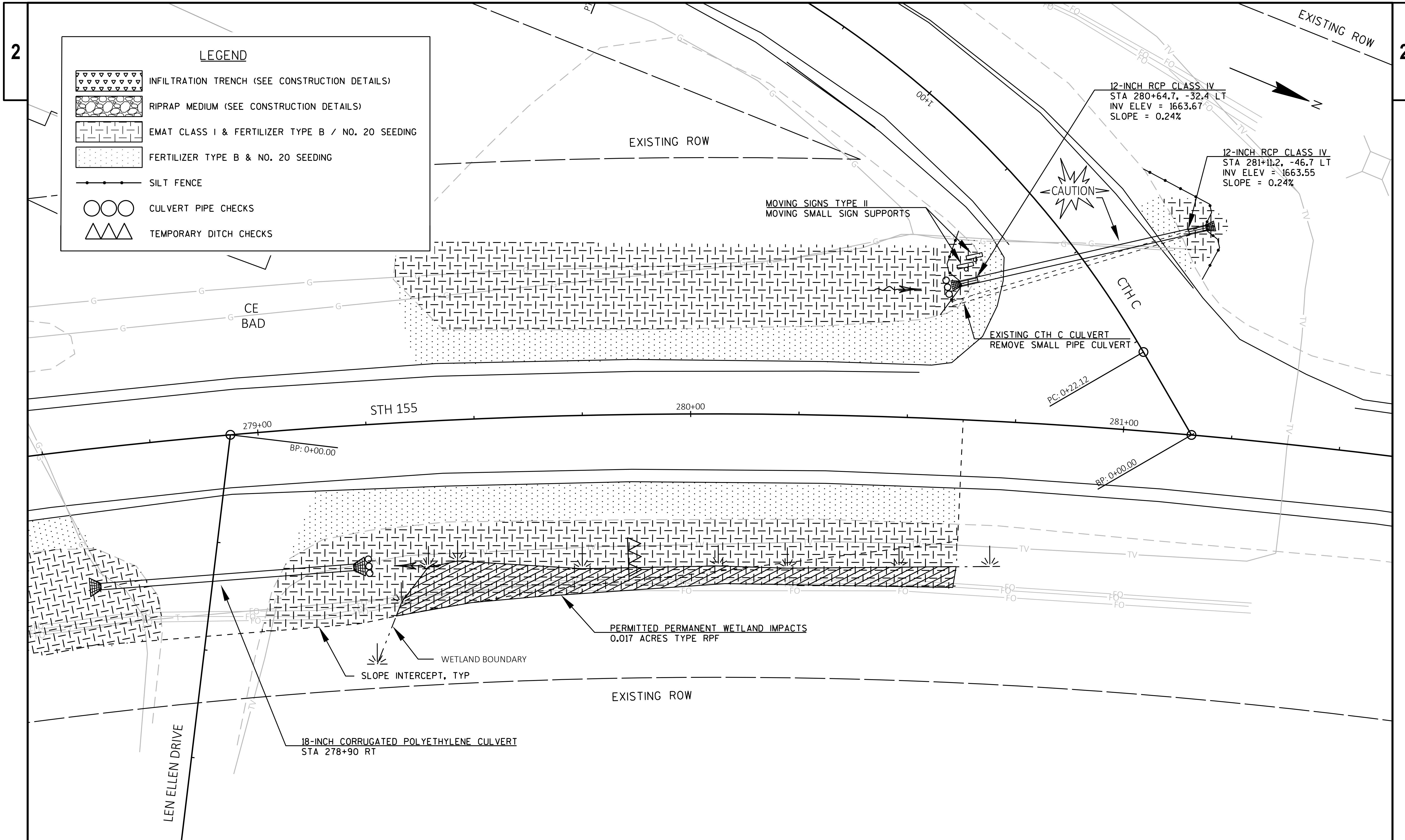
2

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - RT DITCH GRADING & DRIVEWAY CULVERTS	SHEET 40	E



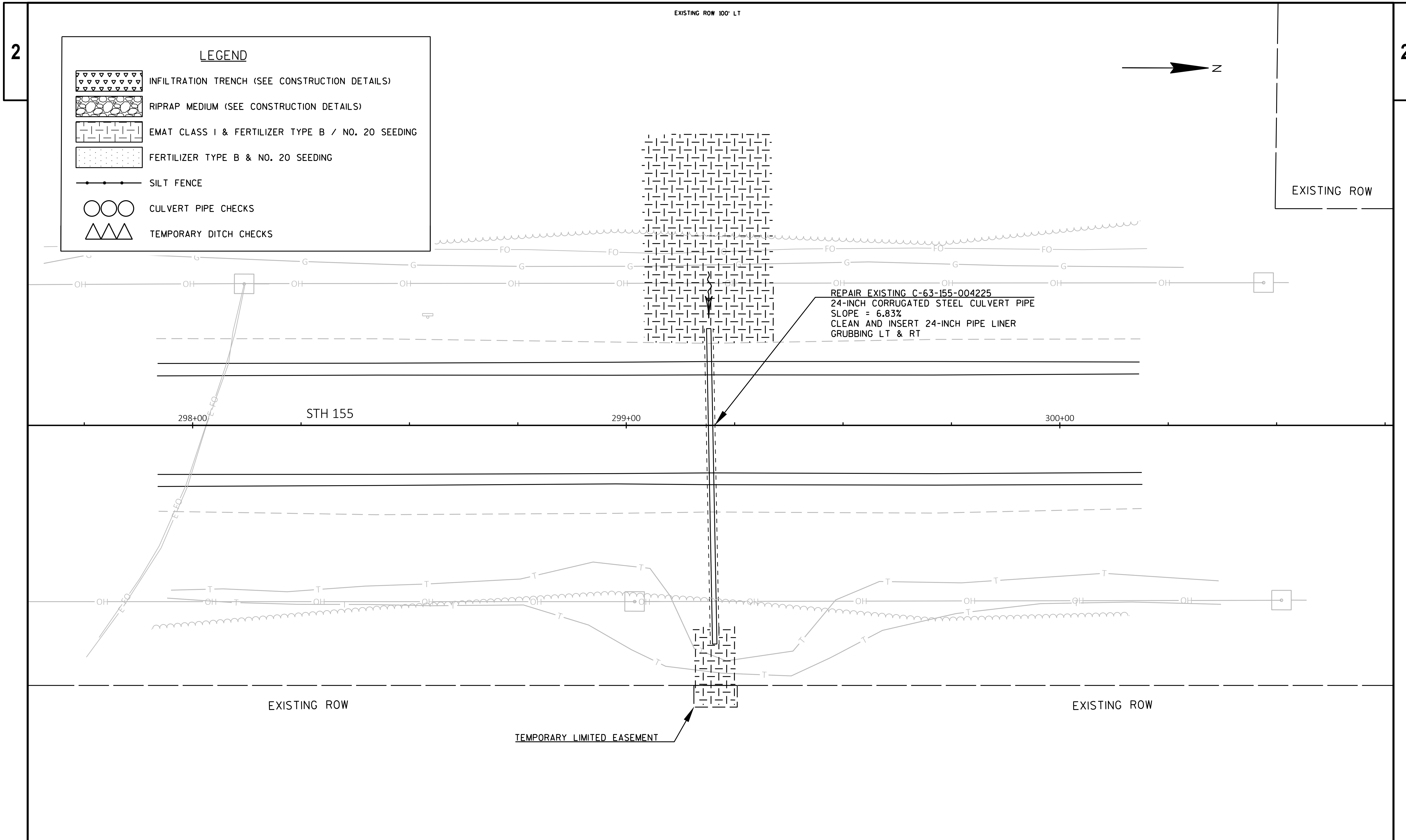
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - RT DITCH GRADING & DRIVEWAY CULVERTS	SHEET 41	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - RT Ditch 03
PLOT DATE : 9/27/2023 8:09 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



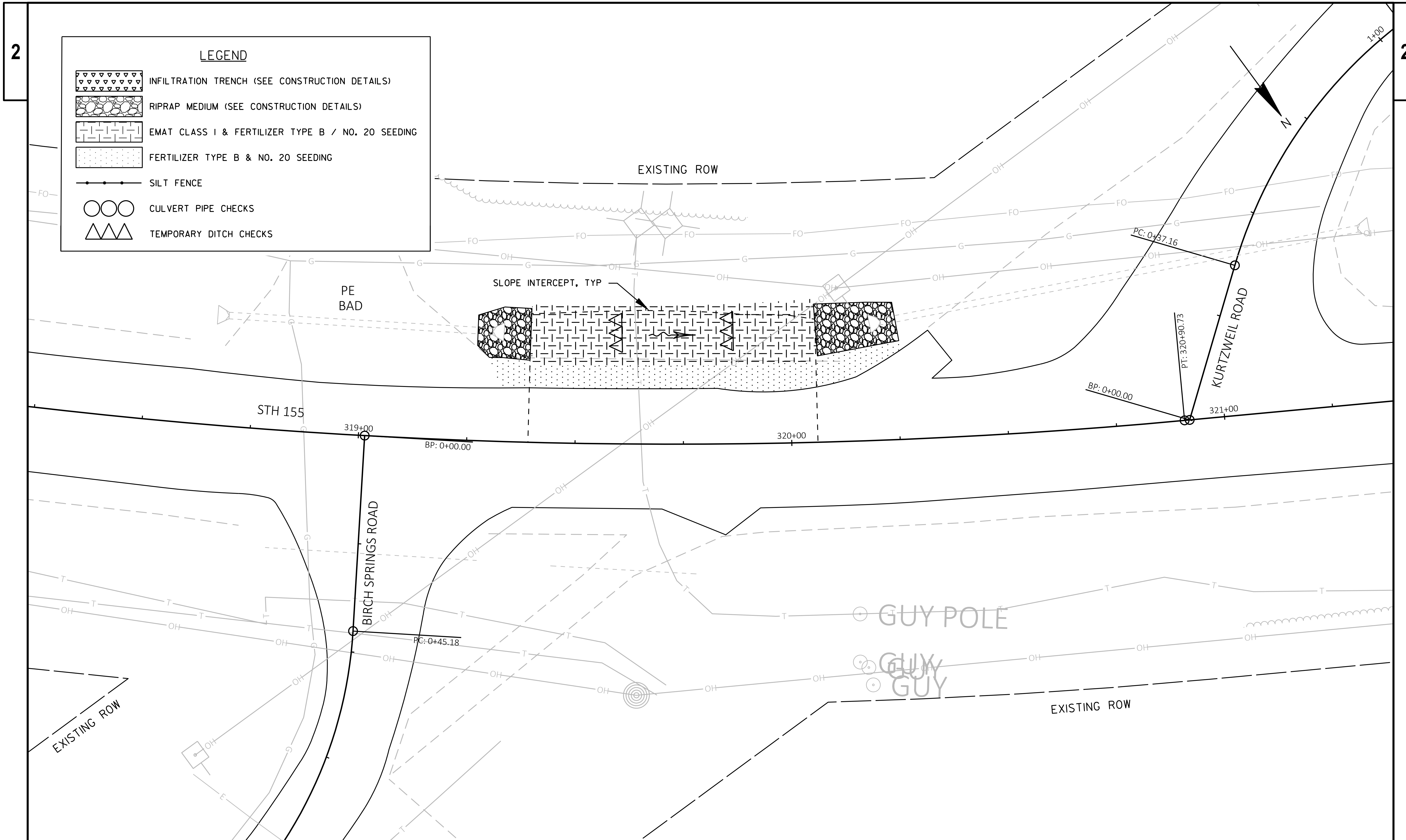
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CTH C DITCH SHAPING AND CULVERT REPLACEMENT	SHEET 42	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - CTH C Culv
PLOT DATE : 9/27/2023 8:09 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



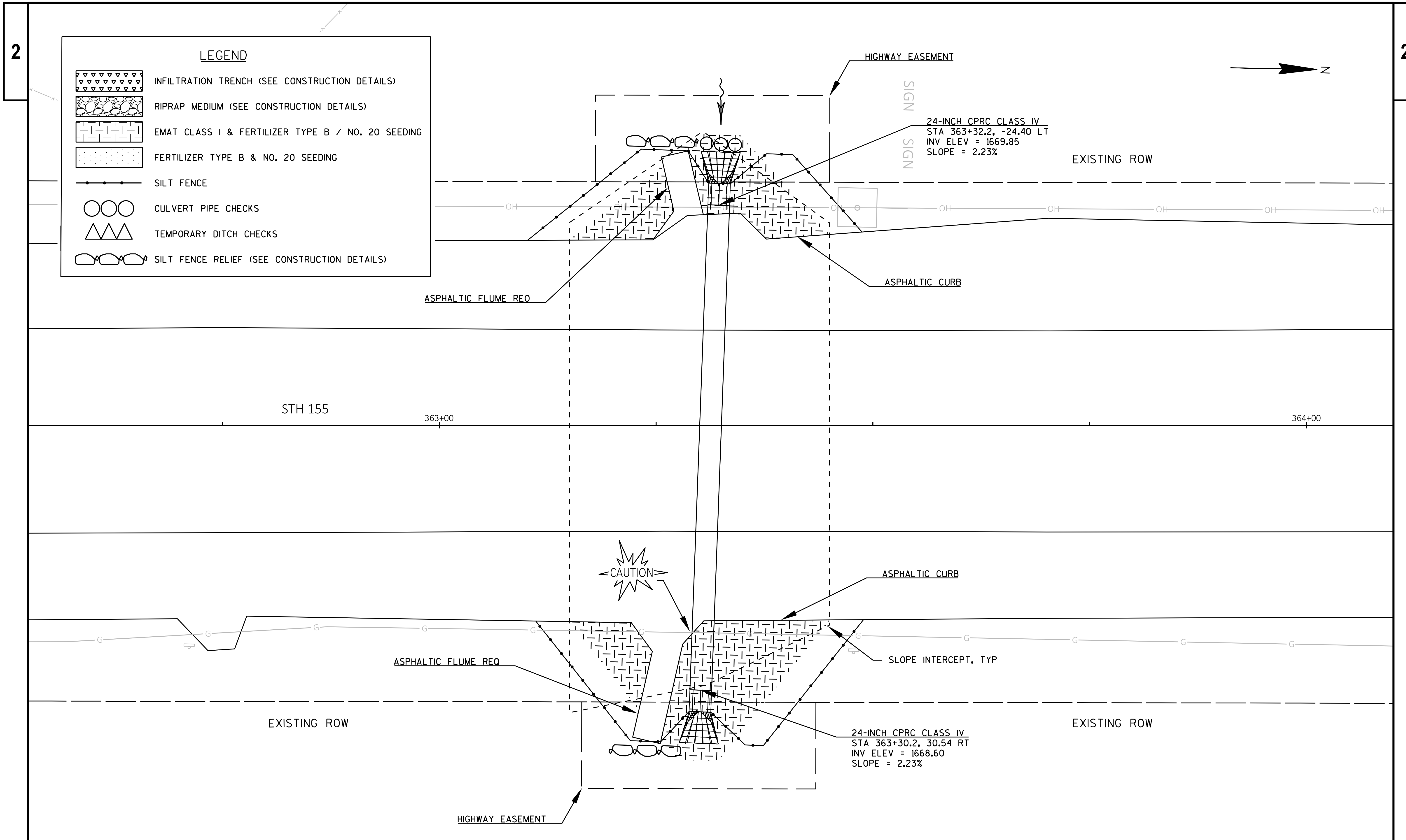
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CULVERT 63-155-004225 HDPE PIPE LINER	SHEET 43	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - C4225
PLOT DATE : 9/27/2023 8:09 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:20 FT

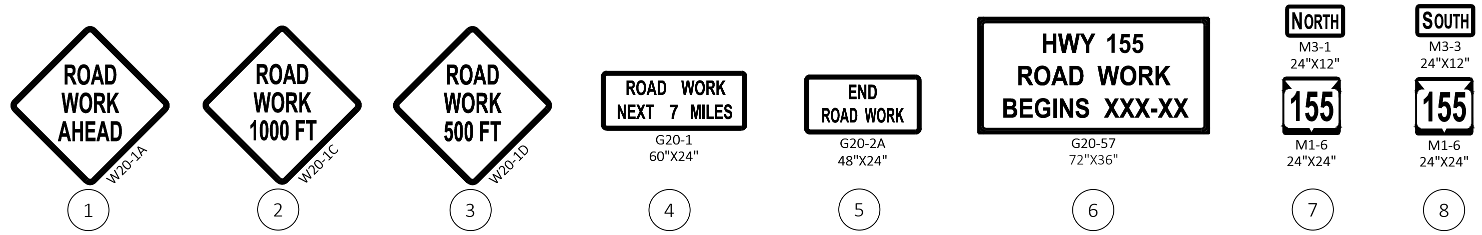


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - STH 155 LT DITCH SHAPING, GRADING AND RIPRAP	SHEET 44	E

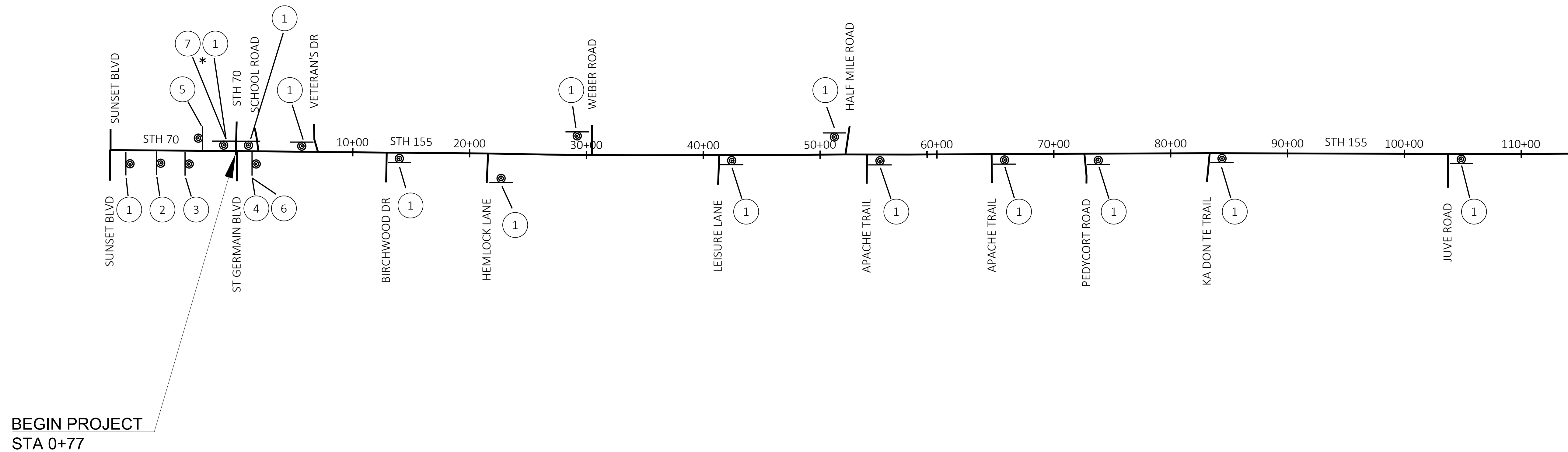
FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - STH 155 LT Ditch
PLOT DATE : 9/27/2023 8:09 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	EROSION CONTROL DETAILS - CULVERT 63-155-004227 REPLACEMENT	SHEET 45	E



*HWY ROAD WORK BEGINS SIGN PLACED SEVEN (7) DAYS PRIOR TO CONSTRUCTION. SIGNS TO BE REMOVED WHEN CONSTRUCTION BEGINS



NOTES:

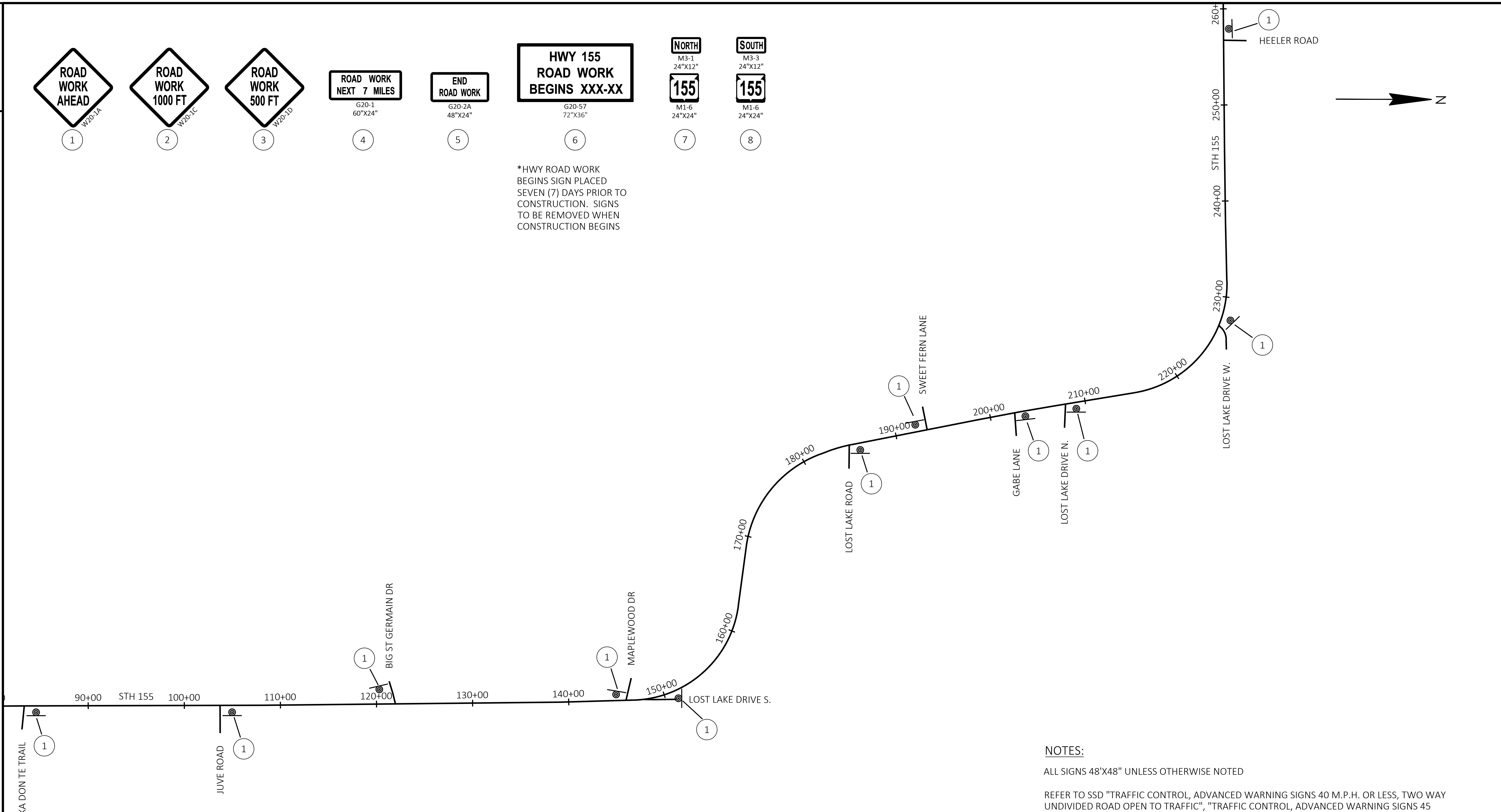
ALL SIGNS 48'X48" UNLESS OTHERWISE NOTED

REFER TO SSD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION", AND "TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION" FOR ADDITIONAL INFORMATION.

AT HEMLOCK LANE, LOLLYCOOGAN LANE AND CTH C PLACE W20-1A SIGNS AT A DISTANCE THAT WILL SATISFY CULVERT INSTALLATION AND DITCH GRADING ACTIVITIES. SEE TRAFFIC CONTROL SHEETS AND SSD "TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION" OR "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

LEGEND

	SIGN ON PERMANENT SUPPORT
X	DENOTES SIGN NUMBER
*	PLACE SIGNS 400' WEST OF THE INTERSECTION



LEGEND

SIGN ON PERMANENT SUPPORT

(X) DENOTES SIGN NUMBER

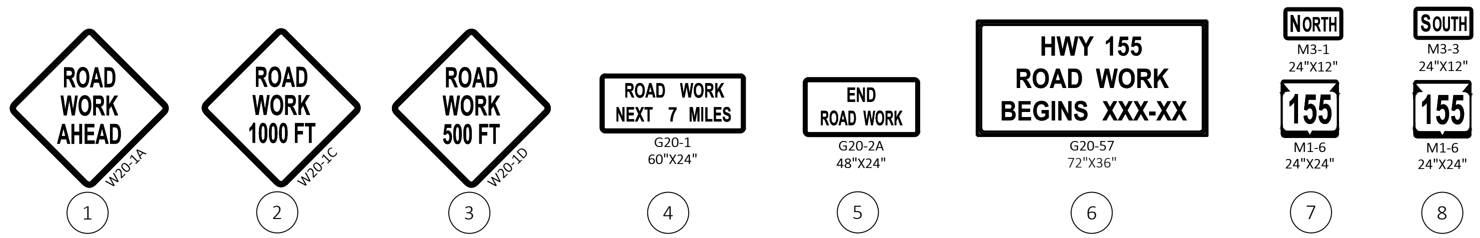
NOTES:

ALL SIGNS 48'X48" UNLESS OTHERWISE NOTED

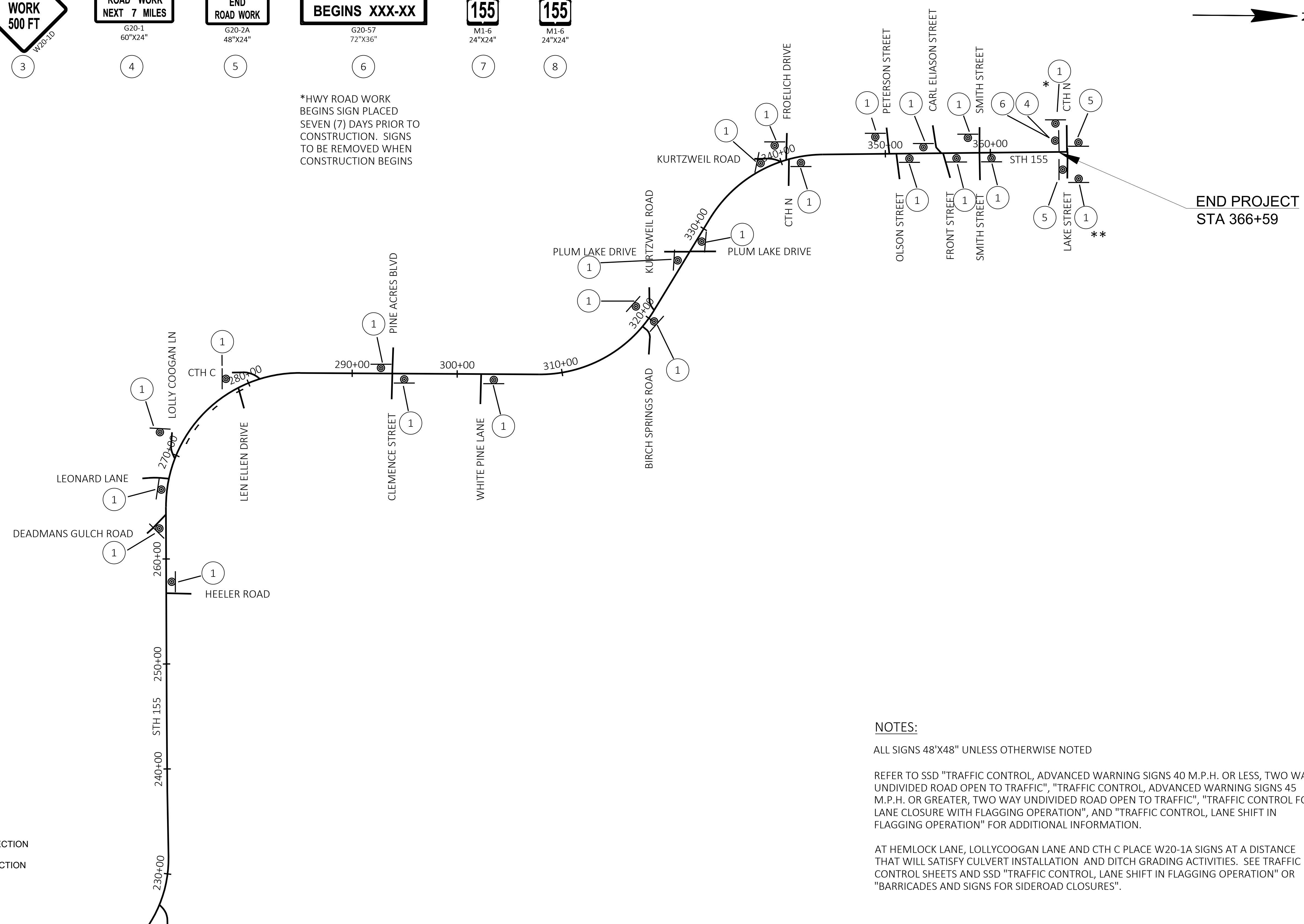
REFER TO SSD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION", AND "TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION" FOR ADDITIONAL INFORMATION.

AT HEMLOCK LANE, LOLLYCOOGAN LANE AND CTH C PLACE W20-1A SIGNS AT A DISTANCE THAT WILL SATISFY CULVERT INSTALLATION AND DITCH GRADING ACTIVITIES. SEE TRAFFIC CONTROL SHEETS AND SSD "TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION" OR "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

2



*HWY ROAD WORK BEGINS SIGN PLACED SEVEN (7) DAYS PRIOR TO CONSTRUCTION. SIGNS TO BE REMOVED WHEN CONSTRUCTION BEGINS



NOTES:

ALL SIGNS 48'X48" UNLESS OTHERWISE NOTED

REFER TO SSD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION", AND "TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION" FOR ADDITIONAL INFORMATION.

AT HEMLOCK LANE, LOLLYCOOGAN LANE AND CTH C PLACE W20-1A SIGNS AT A DISTANCE THAT WILL SATISFY CULVERT INSTALLATION AND DITCH GRADING ACTIVITIES. SEE TRAFFIC CONTROL SHEETS AND SSD "TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION" OR "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

LEGEND

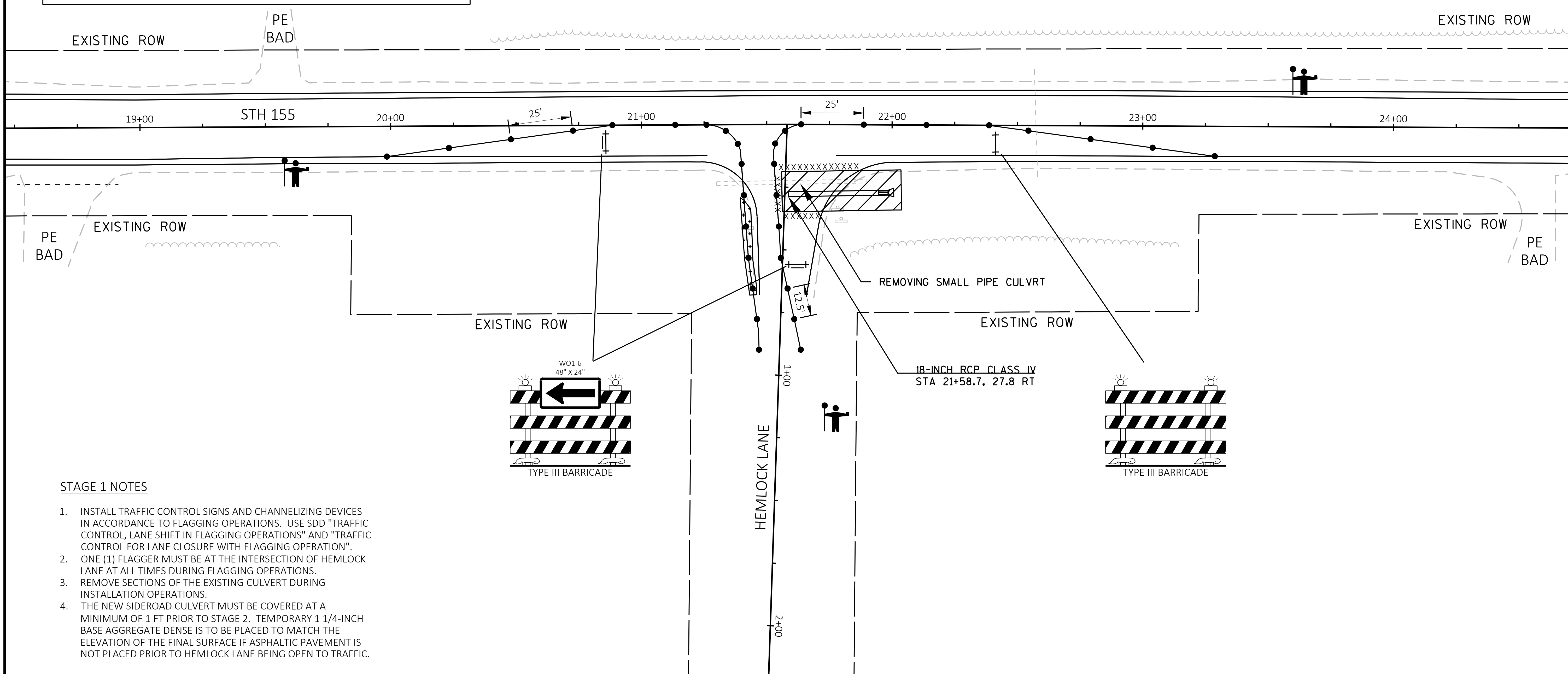
	SIGN ON PERMANENT SUPPORT
x	DENOTES SIGN NUMBER
*	PLACE SIGNS 400' WEST OF THE INTERSECTION
**	PLACE SIGNS 400' EAST OF THE INTERSECTION

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	ADVANCED WARNING SIGNING	SHEET 48	E

2

LEGEND

- WORK AREA
- TEMPORARY 1 1/4-INCH BASE AGGREGATE DENSE
- TEMPORARY LANE SHIFT FOR CULVERT WORK
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



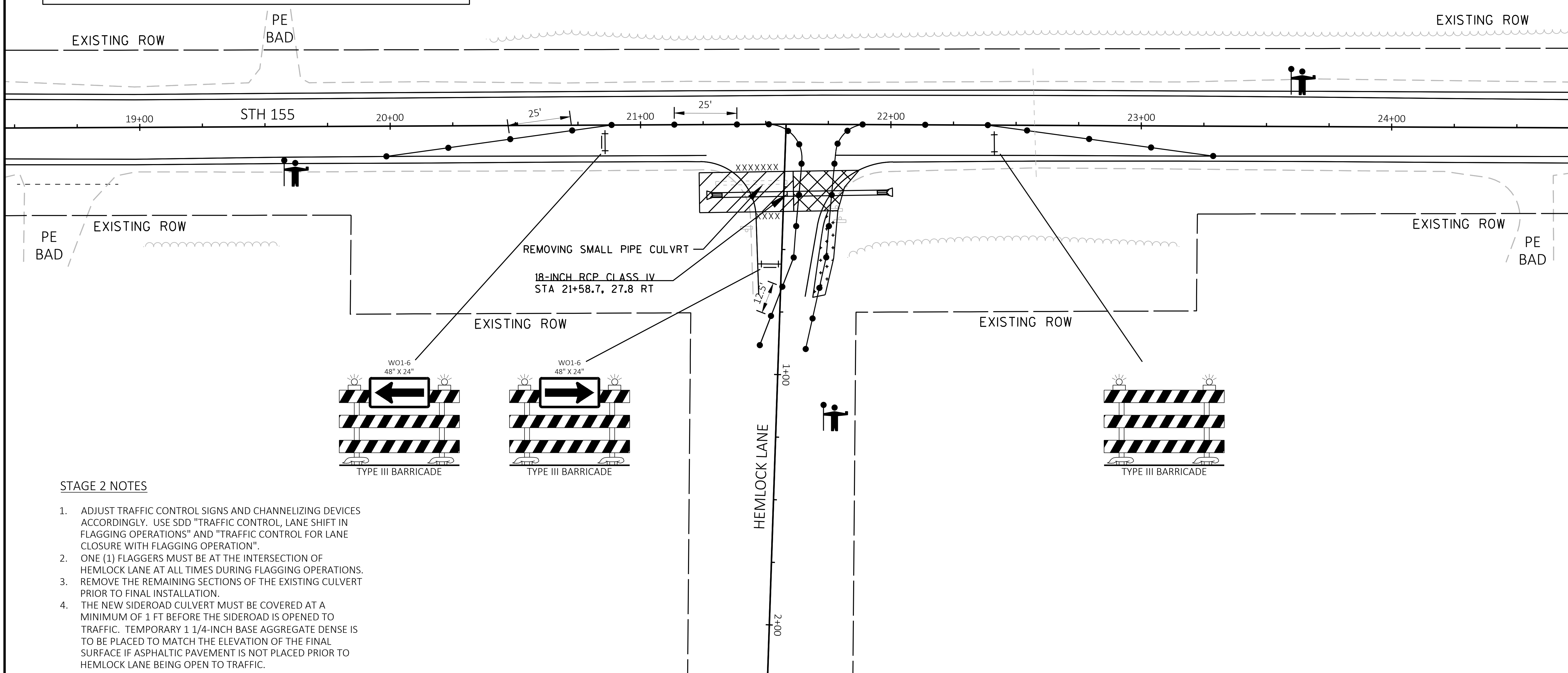
STAGE 1 NOTES

1. INSTALL TRAFFIC CONTROL SIGNS AND CHANNELIZING DEVICES IN ACCORDANCE TO FLAGGING OPERATIONS. USE SDD "TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATIONS" AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".
2. ONE (1) FLAGGER MUST BE AT THE INTERSECTION OF HEMLOCK LANE AT ALL TIMES DURING FLAGGING OPERATIONS.
3. REMOVE SECTIONS OF THE EXISTING CULVERT DURING INSTALLATION OPERATIONS.
4. THE NEW SIDEROAD CULVERT MUST BE COVERED AT A MINIMUM OF 1 FT PRIOR TO STAGE 2. TEMPORARY 1 1/4-INCH BASE AGGREGATE DENSE IS TO BE PLACED TO MATCH THE ELEVATION OF THE FINAL SURFACE IF ASPHALTIC PAVEMENT IS NOT PLACED PRIOR TO HEMLOCK LANE BEING OPEN TO TRAFFIC.

2

LEGEND

- WORK AREA
- TEMPORARY 1 1/4-INCH BASE AGGREGATE DENSE
- TEMPORARY LANE SHIFT FOR CULVERT WORK
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



STAGE 2 NOTES

1. ADJUST TRAFFIC CONTROL SIGNS AND CHANNELIZING DEVICES ACCORDINGLY. USE SDD "TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATIONS" AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".
2. ONE (1) FLAGGERS MUST BE AT THE INTERSECTION OF HEMLOCK LANE AT ALL TIMES DURING FLAGGING OPERATIONS.
3. REMOVE THE REMAINING SECTIONS OF THE EXISTING CULVERT PRIOR TO FINAL INSTALLATION.
4. THE NEW SIDEROAD CULVERT MUST BE COVERED AT A MINIMUM OF 1 FT BEFORE THE SIDEROAD IS OPENED TO TRAFFIC. TEMPORARY 1 1/4-INCH BASE AGGREGATE DENSE IS TO BE PLACED TO MATCH THE ELEVATION OF THE FINAL SURFACE IF ASPHALTIC PAVEMENT IS NOT PLACED PRIOR TO HEMLOCK LANE BEING OPEN TO TRAFFIC.

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	9205-03-60 Qty
0002	201.0205	Grubbing	STA	5.000	5.000
0004	203.0100	Removing Small Pipe Culverts	EACH	12.000	12.000
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	969.000	969.000
0008	204.0120	Removing Asphaltic Surface Milling	SY	121,169.000	121,169.000
0010	205.0100	Excavation Common	CY	3,285.000	3,285.000
0012	208.0100	Borrow	CY	15.000	15.000
0014	208.1500.S	Temporary Lane Shift During Culvert Work	EACH	8.000	8.000
0016	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 9205-03-60	EACH	1.000	1.000
0018	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	398.000	398.000
0020	213.0100	Finishing Roadway (project) 01. 9205-03-60	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,850.000	1,850.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,450.000	1,450.000
0026	312.0110	Select Crushed Material	TON	770.000	770.000
0028	450.4000	HMA Cold Weather Paving	TON	4,930.000	4,930.000
0030	455.0605	Tack Coat	GAL	12,021.000	12,021.000
0032	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0034	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	1.000	1.000
0036	460.2000	Incentive Density HMA Pavement	DOL	3,682.000	3,682.000
0038	460.2005	Incentive Density PWL HMA Pavement	DOL	11,019.000	11,019.000
0040	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	73,170.000	73,170.000
0042	460.2010	Incentive Air Voids HMA Pavement	DOL	19,722.000	19,722.000
0044	460.5224	HMA Pavement 4 LT 58-28 S	TON	19,722.000	19,722.000
0046	465.0105	Asphaltic Surface	TON	1,108.000	1,108.000
0048	465.0110	Asphaltic Surface Patching	TON	100.000	100.000
0050	465.0310	Asphaltic Curb	LF	16.000	16.000
0052	465.0315	Asphaltic Flumes	SY	15.000	15.000
0054	465.0560	Asphaltic Rumble Strips, Centerline	LF	21,245.000	21,245.000
0056	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	2.000	2.000
0058	520.3624	Culvert Pipe Class III-B Non-metal 24-Inch	LF	108.000	108.000
0060	520.9700.S	Culvert Pipe Liners (size) 01. 24-Inch	LF	245.000	245.000
0062	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	2.000	2.000
0064	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	10.000	10.000
0066	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	6.000	6.000
0068	522.0412	Culvert Pipe Reinforced Concrete Class IV 12-Inch	LF	50.000	50.000
0070	522.0418	Culvert Pipe Reinforced Concrete Class IV 18-Inch	LF	62.000	62.000
0072	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	182.000	182.000
0074	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0076	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000
0078	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	8.000	8.000
0080	530.0118	Culvert Pipe Corrugated Polyethylene 18-Inch	LF	242.000	242.000
0082	606.0100	Riprap Light	CY	28.000	28.000
0084	606.0200	Riprap Medium	CY	22.000	22.000
0086	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9205-03-60	EACH	1.000	1.000
0088	619.1000	Mobilization	EACH	1.000	1.000
0090	624.0100	Water	MGAL	4.000	4.000
0092	625.0100	Topsoil	SY	6,300.000	6,300.000
0094	628.1504	Silt Fence	LF	790.000	790.000
0096	628.1520	Silt Fence Maintenance	LF	205.000	205.000
0098	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000

Line	Item	Item Description	Unit	Total 9205-03-60	Qty
0100	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0102	628.2008	Erosion Mat Urban Class I Type B	SY	6,300.000	6,300.000
0104	628.7504	Temporary Ditch Checks	LF	165.000	165.000
0106	628.7555	Culvert Pipe Checks	EACH	79.000	79.000
0108	628.7570	Rock Bags	EACH	34.000	34.000
0110	629.0210	Fertilizer Type B	CWT	5.600	5.600
0112	630.0120	Seeding Mixture No. 20	LB	240.000	240.000
0114	630.0500	Seed Water	MGAL	8.000	8.000
0116	633.5200	Markers Culvert End	EACH	30.000	30.000
0118	638.2102	Moving Signs Type II	EACH	14.000	14.000
0120	638.4000	Moving Small Sign Supports	EACH	13.000	13.000
0122	642.5001	Field Office Type B	EACH	1.000	1.000
0124	643.0300	Traffic Control Drums	DAY	671.000	671.000
0126	643.0420	Traffic Control Barricades Type III	DAY	18.000	18.000
0128	643.0705	Traffic Control Warning Lights Type A	DAY	36.000	36.000
0130	643.0900	Traffic Control Signs	DAY	2,845.000	2,845.000
0132	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000
0134	643.3165	Temporary Marking Line Paint 6-Inch	LF	43,785.000	43,785.000
0136	643.3170	Temporary Marking Line Epoxy 6-Inch	LF	38,808.000	38,808.000
0138	643.5000	Traffic Control	EACH	1.000	1.000
0140	645.0112	Geotextile Type DF Schedule B	SY	1,020.000	1,020.000
0142	645.0120	Geotextile Type HR	SY	70.000	70.000
0144	645.0130	Geotextile Type R	SY	100.000	100.000
0146	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	113,099.000	113,099.000
0148	646.4720	Marking Line Same Day Epoxy 6-Inch	LF	5,765.000	5,765.000
0150	646.6466	Cold Weather Marking Epoxy 6-Inch	LF	47,559.000	47,559.000
0152	648.0100	Locating No-Passing Zones	MI	6.930	6.930
0154	650.6000	Construction Staking Pipe Culverts	EACH	12.000	12.000
0156	650.8000	Construction Staking Resurfacing Reference	LF	36,582.000	36,582.000
0158	650.9911	Construction Staking Supplemental Control (project) 01. 9205-03-60	EACH	1.000	1.000
0160	650.9920	Construction Staking Slope Stakes	LF	1,455.000	1,455.000
0162	690.0150	Sawing Asphalt	LF	500.000	500.000
0164	740.0440	Incentive IRI Ride	DOL	27,715.000	27,715.000
0166	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0168	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,260.000	1,260.000
0170	SPV.0060	Special 01. Temporary Bypass Pumping C63155004222	EACH	1.000	1.000
0172	SPV.0060	Special 02. Sealing Culvert Joints C63155004222	EACH	1.000	1.000
0174	SPV.0060	Special 03. Reestablish Section Corner Monuments	EACH	2.000	2.000
0176	SPV.0090	Special 01. Grading and Shaping Ditch	LF	1,645.000	1,645.000
0178	SPV.0180	Special 01. Protective Thermoplastic Coating at Snowmobile Crossings	SY	524.000	524.000

GRUBBING

STATION	TO	STATION	LOCATION	201.0205 (STA)	REMARKS
203+02	-	203+18	STH 155 LT	1	C-4223 OUTLET
203+92	-	204+45	STH 155 RT	1	C-4223 INTLET
299+03	-	299+34	STH 155 LT	1	C-4225 INTLET
299+15	-	299+26	STH 155 RT	1	C-4225 OUTLET
00+75	-	1+60	LOLLYCOOGAN LN LT	1	C-4224 OUTLET
			TOTAL =	**5**	

REMOVING SMALL PIPE CULVERTS

STATION	TO	STATION	LOCATION	203.0100 (EACH)	CULVERT NUMBER, SIZE, LENGTH & MATERIAL
18+51	-	19+91	RT	1	DRIVEWAY CULVERT; 18-IN 40 FT CORRUGATED STEEL
21+30	-	21+90	RT	1	HEMLOCK LN; 18-IN 60 FT CORRUGATED STEEL
34+84	-	35+93	RT & LT	1	C-004216; 24-IN 41 FT CORRUGATED STEEL
157+09	-	157+12	LT & RT	1	C-004220; 24-IN 54 FT CORRUGATED STEEL
184+51	-	184+58	RT & LT	1	C-004221; 24-IN 59 FT CORRUGATED STEEL
270+53	-	270+57	LT & RT	1	C-004224; 24-IN 73 FT CORRUGATED STEEL
280+64	-	281+21	LT	1	CTH C; 15-IN 62 FT CORRUGATED STEEL
271+58	-	271+94	RT	1	BURIED DRIVEWAY CULVERT
273+15	-	273+46	RT	1	BURIED DRIVEWAY CULVERT
275+81	-	276+17	RT	1	BURIED DRIVEWAY CULVERT
278+62	-	279+11	RT	1	BURIED DRIVEWAY CULVERT
363+30	-	363+32	RT & LT	1	C-004227; 24-IN 59 FT CORRUGATED STEEL
			TOTAL =	**12**	

REMOVING ASPHALTIC SURFACE

STATIONING	LOCATION		BUTT JOINTS 204.0115 (SY)	MILLING 204.0120 (SY)
0+77 - 0+87	MAINLINE	CL	40	---
0+87 - 354+70	MAINLINE	CL	---	110,081
354+70 - 366+49	MAINLINE	CL	---	5,764
366+49 - 366+59	MAINLINE	CL	49	---
1+92	SCHOOL ROAD	LT	21	83
7+03	VETERAN'S DRIVE	LT	28	133
12+91	BIRCHWOOD DRIVE	RT	43	442
21+58	HEMLOCK LANE	RT	13	108
30+46	WEBER LANE	LT	23	135
41+36	LEISURE LANE	RT	24	123
52+17	HALF MILE ROAD	LT	23	314
54+01	APACHE TRAIL	RT	32	186
64+68	APACHE TRAIL	RT	34	120
72+62	PEDYCORT ROAD	RT	21	112
103+72	JUVE ROAD	RT	20	92
121+97	BIG ST GERMAIN DRIVE	LT	29	380
147+76	LOST LAKE DRIVE S.	RT	22	204
185+04	LOST LAKE ROAD	RT	22	179
202+57	GABE LANE	RT	56	180
207+95	LOST LAKE DRIVE N.	RT	29	145
226+95	LOST LAKE DRIVE W.	RT	23	184
256+74	HEELER ROAD	RT	20	85
267+67	LEONARD LANE	LT	24	101
269+67	LOLLY COOGAN LANE	LT	24	252
281+16	CTH C	LT	29	188
293+82	PINE ACRES BLVD	LT	29	95
302+28	WHITE PINE LANE	RT	32	106
319+01	BIRCH SPRINGS ROAD	RT	25	89
320+92	KURTZWEIL ROAD	LT	28	190
327+43	PLUM LAKE DRIVE	LT	29	125
327+48	PLUM LAKE DRIVE	RT	28	191
339+95	KURTZWEIL ROAD	LT	24	237
340+51	FROELICH STREET	LT	29	80
340+78	CTY HWY N EAST	RT	32	211
350+38	PETERSON STREET	LT	25	120
351+05	OLSON STREET	RT	39	134
		TOTAL =	**969**	**121,169**

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EARTHWORK

STATION	TO	STATION	LOCATION	205.0100 EXCAVATION COMMON (CY)	208.0100 BORROW (CY)	REMARKS
2+38	-	16+23	RT	400	---	DITCH INFILTRATION TRENCH
18+51	-	19+91	RT	50	---	DRIVEWAY CULVERT
21+29	-	21+99	RT	60	---	HEMLOCK LANE CULVERT REPLACEMENT
22+57	-	22+58	LT & RT	---	5	C-004215 ENDWALLS INSTALLED
34+84	-	35+93	CL	230	---	C-004216 REPLACEMENT
48+28	-	48+28	LT & RT	---	5	C-004217 ENDWALLS INSTALLED
59+14	-	59+16	LT & RT	---	5	C-004218 ENDWALLS INSTALLED
156+55	-	157+66	CL	260	---	C-004220 REPLACEMENT
183+98	-	185+11	CL	325	---	C-004221 REPLACEMENT
269+64	-	270+38	CL	835	---	C-004224 INSTALLATION
270+38	-	271+10	CL	500	---	C-004224 REMOVAL
271+49	-	271+99	RT	50	---	DRIVEWAY CULVERT
273+09	-	273+60	RT	50	---	DRIVEWAY CULVERT
275+71	-	276+18	RT	55	---	DRIVEWAY CULVERT
278+60	-	279+20	RT	55	---	DRIVEWAY CULVERT
280+55	-	281+12	LT	75	---	CTH C CULVERT REPLACEMENT
362+76	-	363+86	CL	340	---	C-004227 REPLACEMENT
			TOTALS =	**3,285**	**15**	

PREPARE FOUNDATION FOR ASPHALTIC PAVING

LOCATION	211.0101 01. 9205-03-60 (EACH)
STA 0+77 - STA 366+59	1
TOTAL =	**1**

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

STATION	TO	STATION	LOCATION	211.0400 (STA)
0+77	-	122+75	LT	122
0+77	-	122+75	RT	122
171+29	-	171+50	LT	1
171+31	-	171+53	RT	1
250+35	-	250+60	RT	1
250+51	-	250+76	LT	1
278+86	-	279+10	RT	1
278+97	-	279+20	LT	1
281+12	-	354+70	LT	74
281+12	-	354+70	RT	74
			TOTAL =	**398**

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3/4-INCH BASE AGGREGATE DENSE

STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	624.0100 WATER (MGAL)
0+77	-	122+75	LT	80	---
0+77	-	122+75	RT	80	---
122+75	-	281+12	LT	620	---
122+75	-	281+12	RT	620	---
281+12	-	354+70	LT	50	---
281+12	-	354+70	RT	50	---
DRIVEWAYS			LT/RT	200	---
UNDISTRIBUTED			---	150	2.0
			TOTALS =	**1,850**	**2.0** (*)

(*) NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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1 1/4-INCH BASE AGGREGATE DENSE

STATION	TO	STATION	LOCATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (TON)	624.0100 WATER (MGAL)	REMARKS
21+29	-	21+99	RT	50	---	HEMLOCK LANE CULVERT REPLACEMENT
34+84	-	35+93	CL	190	---	C-63-155-004216 REPLACEMENT
156+55	-	157+66	CL	190	---	C-63-155-004220 REPLACEMENT
183+98	-	185+11	CL	190	---	C-63-155-004221 REPLACEMENT
269+64	-	270+38	CL	300	---	C-63-155-004224 INSTALLATION
270+38	-	271+10	CL	130	---	C-63-155-004224 REMOVAL
280+55	-	281+12	LT	80	---	CTH C CULVERT REPLACEMENT
362+76	-	363+86	CL	190	---	C-63-155-004227 REPLACEMENT
UNDISTRIBUTED			---	130	2.0	
			TOTALS =	**1,450**	**2.0** (*)	

(*) NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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HMA PAVEMENT PWL QMP MIXTURE ACCEPTANCE TABLE

LOCATION	STATIONING	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRM TO BE USED FOR: MIXTURE ACCEPTANCE	QUALITY MANAGEMENT PROGRM TO BE USED FOR: DENSITY ACCEPTANCE
12 FOOT DRIVING LANE	0+77 TO 122+75	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	3,682	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
12 FOOT DRIVING LANE	0+77 TO 122+75	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 LT 58-28 S	3,682	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2000
4 FOOT SHOULDER	0+77 TO 122+75	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	1,228	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
4 FOOT SHOULDER	0+77 TO 122+75	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	1,228	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
12 FOOT DRIVING LANE	122+75 TO 281+12	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 LT 58-28 S	4,765	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
2 FOOT SHOULDER	122+75 TO 281+12	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 LT 58-28 S	795	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
12 FOOT DRIVING LANE	281+12 TO 354+70	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 LT 58-28 S	2,212	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
4 FOOT SHOULDER	281+12 TO 354+70	UPPER LAYER	MILLED EXISTING HMA/ASPHALTIC SURFACE	4 LT 58-28 S	738	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
2 FOOT SHOULDER	281+12 TO 354+70	LOWER LAYER	BASE AGGREGATE	ASPHALTIC SURFACE	400	2.00-INCHES	QMP AS PER SS 465.	ACCEPTANCE BY ORDINARY COMPACTION
12 FOOT DRIVING LANE	354+70 TO 366+59	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 LT 58-28 S	360	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
10 FOOT SHOULDER	354+70 TO 366+59	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 LT 58-28 S	300	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
SIDEROAD INTERSECTIONS		UPPER LAYER	MILLED EXISTING HMA SURFACE	4 LT 58-28 S	724	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
VARIOUS		CULVERT PATCHES	BASE AGGREGATE	ASPHALTIC SURFACE	700	5.00-INCHES	QMP AS PER SS 465.	ACCEPTANCE BY ORDINARY COMPACTION
SNOWMOBILE CROSSING	VARIOUS	UPPER LAYER	ASPHALTIC SURFACE	4 LT 58-28 S	8	2.00-INCHES	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
SNOWMOBILE CROSSING	VARIOUS	LOWER LAYER	BASE AGGREGATE	ASPHALTIC SURFACE	8	2.00-INCHES	QMP AS PER SS 460.	ACCEPTANCE BY ORDINARY COMPACTION

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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HMA PAVEMENT

STATIONING			LOCATION	455.0605* TACK COAT (GAL)	460.5224* HMA PAVEMENT 4 LT 58-28 S (TON)	465.0105* ASPHALTIC SURFACE (TON)	REMARKS
0+77	-	122+75	CL	5,730	9,820	0	MAINLINE
122+75	-	281+12	CL	3,470	5,560	0	MAINLINE
281+12	-	354+70	CL	1,850	2,950	400	MAINLINE
354+70	-	366+59	CL	410	660	0	MAINLINE
1+92	SCHOOL ROAD		LT	6	12	0	SIDEROAD
7+03	VETERAN'S DRIVE		LT	10	18	0	SIDEROAD
12+91	BIRCHWOOD DRIVE		RT	26	56	0	SIDEROAD
21+58	HEMLOCK LANE		RT	8	14	0	SIDEROAD
30+46	WEBER LANE		LT	8	18	0	SIDEROAD
41+36	LEISURE LANE		RT	8	18	0	SIDEROAD
52+17	HALF MILE ROAD		LT	18	38	0	SIDEROAD
54+01	APACHE TRAIL		RT	12	26	0	SIDEROAD
64+68	APACHE TRAIL		RT	8	18	0	SIDEROAD
72+62	PEDYCORT ROAD		RT	8	16	0	SIDEROAD
103+72	JUVE ROAD		RT	6	14	0	SIDEROAD
121+97	BIG ST GERMAIN DRIVE		LT	22	46	0	SIDEROAD
147+76	LOST LAKE DRIVE S.		RT	12	26	0	SIDEROAD
185+04	LOST LAKE ROAD		RT	12	24	0	SIDEROAD
202+57	GABE LANE		RT	12	28	0	SIDEROAD
207+95	LOST LAKE DRIVE N.		RT	10	20	0	SIDEROAD
226+95	LOST LAKE DRIVE W.		RT	12	24	0	SIDEROAD
256+74	HEELER ROAD		RT	6	12	0	SIDEROAD
267+67	LEONARD LANE		LT	8	14	0	SIDEROAD
269+67	LOLLY COOGAN LANE		LT	14	32	0	SIDEROAD
281+16	CTH C		LT	12	26	0	SIDEROAD
293+82	PINE ACRES BLVD		LT	8	14	0	SIDEROAD
302+28	WHITE PINE LANE		RT	8	16	0	SIDEROAD
319+01	BIRCH SPRINGS ROAD		RT	6	14	0	SIDEROAD
320+92	KURTZWEIL ROAD		LT	12	26	0	SIDEROAD
327+43	PLUM LAKE DRIVE		LT	8	18	0	SIDEROAD
327+48	PLUM LAKE DRIVE		RT	12	26	0	SIDEROAD
339+95	KURTZWEIL ROAD		LT	14	30	0	SIDEROAD
340+51	FROELICH STREET		LT	6	14	0	SIDEROAD
340+78	CTY HWY N EAST		RT	14	28	0	SIDEROAD
350+38	PETERSON STREET		LT	8	18	0	SIDEROAD
351+05	OLSON STREET		RT	10	20	0	SIDEROAD
			TOTALS =	11,804	19,714	400	

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ASPHALTIC SURFACE

STATION	TO	STATION	LOCATION	455.0605* TACK COAT (GAL)	465.0105* ASPHALTIC SURFACE (TON)	465.0110 ASPHALTIC SURFACE PATCHING (TON)	465.0310 ASPHALTIC CURB (LF)	465.0315 ASPHALTIC FLUMES (SY)	REMARKS
21+29	-	21+99	RT	10	30	---	---	---	HEMLOCK LN CULVERT REPLACEMENT
34+84	-	35+93	CL	25	95	---	---	---	C-004216 REPLACEMENT
156+55	-	157+64	CL	25	100	---	---	---	C-004220 REPLACEMENT
183+96	-	185+06	CL	25	100	---	---	---	C-004221 REPLACEMENT
269+64	-	270+38	CL	45	175	---	---	---	C-004224 INSTALLATION
270+38	-	271+10	CL	20	70	---	---	---	C-004224 REMOVAL
278+65	-	279+05	RT	5	15	---	---	---	DRIVEWAY CULVERT REPLACEMENT
280+66	-	281+01	LT	5	15	---	---	---	CTH C CULVERT REPLACEMENT
363+22	-	363+37	RT	---	---	---	8	7.5	ROADWAY DRAINAGE
363+24	-	363+39	LT	---	---	---	8	7.5	ROADWAY DRAINAGE
363+72	-	363+81	CL	25	100	---	---	---	C-004227 REPLACEMENT
UNDISTRIBUTED			LT/RT	25	---	100	---	---	MILLED SURFACE REPAIRS
			TOTALS =	210	700	100	16	15	

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SNOWMOBILE CROSSINGS

STATION	TO	STATION	LOCATION	455.0605* TACK COAT (GAL)	460.5224* HMA PAVEMENT 4 LT 58-28 S (TON)	465.0105* ASPHALTIC SURFACE (TON)	SPV.0180.01 PROTECTIVE THERMOPLASTIC COATING (SY)
12+68	-	12+86	STH 155	1	0.5	0.5	57
80+62	-	80+88	STH 155	1	1.0	1.0	59
121+65	-	121+82	STH 155	1	0.5	0.5	57
171+29	-	171+56	STH 155	1	1.5	1.5	57
250+35	-	250+76	STH 155	1	2.0	2.0	64
278+86	-	279+20	STH 155	1	1.5	1.5	60
319+65	-	320+43	STH 155	1	1.0	1.0	100
354+96	-	355+41	STH 155	---	---	---	70
			TOTALS =	7	8	8	524

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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COLD WEATHER OPERATIONS

STATION	TO	STATION	LOCATION	450.4000 HMA PAVING (TON)	646.6466 MARKING EPOXY 6-INCH (LF)
0+77	-	366+59	CL	4,930	47,559
			TOTALS =	**4,930**	**47,559**

ROADWAY INFILTRATION TRENCH

STATION	TO	STATION	LOCATION	312.0110 SELECT CRUSHED MATERIAL (TON)	645.0112 GEOTEXTILE TYPE DF SCHEDULE B (SY)
2+38	-	3+28	RT	80	105
3+89	-	4+02	RT	15	20
4+32	-	5+88	RT	135	180
6+89	-	9+25	RT	200	265
9+74	-	12+19	RT	210	275
14+46	-	14+67	RT	20	30
14+97	-	16+23	RT	110	145
			TOTALS =	**770**	**1,020**

CENTERLINE ASPHALTIC RUMBLE STRIPS

STATION	TO	STATION	LOCATION	465.0560 (LF)
15+40	-	19+58	CL	418
23+58	-	28+46	CL	488
32+46	-	39+36	CL	690
43+36	-	50+17	CL	681
56+01	-	62+68	CL	667
66+68	-	70+62	CL	394
74+62	-	80+65	CL	603
80+85	-	101+72	CL	2,087
105+72	-	119+97	CL	1,425
123+97	-	143+97	CL	2,000
152+50	-	171+30	CL	1,880
171+50	-	183+04	CL	1,154
187+04	-	191+30	CL	426
195+30	-	200+57	CL	527
204+57	-	205+95	CL	138
209+95	-	224+95	CL	1,500
228+95	-	249+50	CL	2,055
252+55	-	254+74	CL	219
258+74	-	265+67	CL	693
271+67	-	275+45	CL	378
283+16	-	291+82	CL	866
295+82	-	300+28	CL	446
304+28	-	317+01	CL	1,273
322+92	-	325+29	CL	237
			TOTAL =	**21,245**

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ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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DRAIN CULVERTS

STATION	LOCATION	CULVERT NO.	520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH (EACH)	520.3624* CULVERT PIPE CLASS III-B NON-METAL 24-INCH (LF)	520.9700.S CULVERT PIPE LINERS 24-INCH (LF)	520.9750.S CLEANING CULVERT PIPES FOR LINER VERIFICATION (EACH)	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH (EACH)	521.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH (EACH)	522.0412 CULVERT PIPE REINFORCED CONCRETE CLASS IV 12-INCH (LF)	522.0418 CULVERT PIPE REINFORCED CONCRETE CLASS IV 18-INCH (LF)	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH (LF)	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH (EACH)	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH (EACH)	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH (EACH)	530.0118 CULVERT PIPE CORRUGATED POLYETHYLENE 18-INCH (LF)	633.5200 MARKERS CULVERT END (EACH)
18+70	RT	DRIVEWAY	---	---	---	---	2	---	---	---	---	---	---	---	44	---
21+57	RT	HEMLOCK LN	---	---	---	---	---	---	---	62	---	---	2	---	---	2
22+57	LT & RT	63-155-004215	---	---	---	---	---	2	---	---	---	---	---	---	---	2
35+38	CL	63-155-004216	---	---	---	---	---	---	---	---	36	---	---	2	---	2
48+28	LT & RT	63-155-004217	---	---	---	---	---	2	---	---	---	---	---	---	---	2
59+15	LT & RT	63-155-004218	---	---	---	---	---	2	---	---	---	---	---	---	---	2
86+90	CL	63-155-073324	---	---	---	---	---	---	---	---	---	---	---	---	---	2
157+10	CL	63-155-004220	---	---	---	---	---	---	---	---	42	---	---	2	---	2
184+55	CL	63-155-004221	---	---	---	---	---	---	---	---	48	---	---	2	---	2
186+66	LT & RT	63-155-004222	---	---	---	---	---	---	---	---	---	---	---	---	---	2
203+64	CL	63-155-004223	---	---	172	1	---	---	---	---	---	---	---	---	---	2
270+16	CL	63-155-004224	2	108	---	---	---	---	---	---	---	---	---	---	---	2
271+74	RT	DRIVEWAY	---	---	---	---	2	---	---	---	---	---	---	---	48	---
273+35	RT	DRIVEWAY	---	---	---	---	2	---	---	---	---	---	---	---	48	---
275+95	RT	DRIVEWAY	---	---	---	---	2	---	---	---	---	---	---	---	44	---
278+90	RT	DRIVEWAY	---	---	---	---	2	---	---	---	---	---	---	---	58	---
280+83	LT	CTH C	---	---	---	---	---	---	50	---	---	2	---	---	---	2
299+19	CL	63-155-004225	---	---	73	1	---	---	---	---	---	---	---	---	---	2
323+35	CL	63-155-073326	---	---	---	---	---	---	---	---	---	---	---	---	---	2
363+31	CL	63-155-004227	---	---	---	---	---	---	---	---	56	---	---	2	---	2
		TOTALS =	**2**	**108**	**245**	**2**	**10**	**6**	**50**	**62**	**182**	**2**	**2**	**8**	**242**	**30**

*NOTES: LENGTH BASED ON CONCRETE PIPE WITH CONCRETE ENDWALLS. ADJUST ACCORDINGLY IF PIPE MATERIAL OTHER THAN CONCRETE IS USED.
ALL CONCRETE CULVERT SECTIONS ARE TO BE TIED.

SEAL CULVERT JOINTS

STATION	LOCATION	CULVERT NO.	SPV.0060.01 TEMPORARY BYPASS PUMPING (EACH)	SPV.0060.02 SEAL CULVERT JOINTS (EACH)
186+66	CL	63-155-004222	1	1
		TOTALS =	**1**	**1**

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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RIPRAP

STATION	TO	STATION	LOCATION	606.0100 RIPRAP LIGHT (CY)	606.0200 RIPRAP MEDIUM (CY)	645.0120 GEOTEXTILE TYPE HR (SY)	645.0130 GEOTEXTILE TYPE R (SY)	REMARKS
59+09	-	59+18	LT	---	4	15	---	C-63-155-004218 OUTLET
269+29	-	269+62	LT	28	---	---	100	LOLLYCOOGAN LANE DITCH AND CULVERT OUTLET
319+26	-	319+40	LT	---	7	23	---	DRIVEWAY CULVERT OUTLET
320+06	-	320+26	LT	---	11	32	---	KURTZWEIL ROAD CULVERT INLET
			TOTALS =	**28**	**22**	**70**	**100**	

EROSION CONTROL

STATION	TO	STATION	LOCATION	625.0100 TOPSOIL (SY)	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)	628.2008 EROSION MAT URBAN CLASS I TYPE B (SY)	628.7504 TERMPORARY DITCH CHECKS (LF)	628.7555 CULVERT PIPE CHECKS (EACH)	628.7570 ROCK BAGS (EACH)	629.0210 FERTILIZER TYPE B (CWT)	630.0120 SEEDING MIXTURE NO. 20 (LB)	630.0500 SEED WATER (MGAL)	REMARKS
2+35	-	16+23	RT	280	---	---	---	---	280	---	---	---	0.68	29.2	1.1	DITCH INFILTRATION TRENCH
17+21	-	18+54	RT	170	---	---	---	---	170	20	3	---	0.14	6.2	0.1	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
18+80	-	21+44	RT	580	---	---	---	---	580	---	3	---	0.43	18.4	0.1	DITCH GRADING & HEMLOCK LN CULVERT REPLACEMENT
21+72	-	22+45	RT	260	---	---	---	---	260	---	---	---	0.18	7.8	0.1	HEMLOCK LN CULVERT REPLACEMENT & DITCH GRADING
22+45	-	22+68	LT & RT	40	---	---	---	---	40	---	5	---	0.03	1.4	0.1	C-004215 ENDWALL INSTALLATION
34+84	-	35+93	LT & RT	30	100	25	---	---	30	---	5	---	0.03	1.4	0.1	C-004216 REPLACEMENT
48+15	-	48+41	LT & RT	40	---	---	---	---	40	---	5	---	0.04	1.9	0.1	C-004217 ENDWALL INSTALLATION
59+03	-	59+27	LT & RT	30	---	---	---	---	30	---	5	---	0.03	1.4	0.1	C-004218 ENDWALL INSTALLATION
156+55	-	157+66	LT & RT	70	130	35	---	---	70	---	5	---	0.09	3.8	0.1	C-004220 REPLACEMENT
183+98	-	185+11	LT & RT	70	120	30	---	---	70	---	5	---	0.09	4.1	0.2	C-004221 REPLACEMENT
203+03	-	204+45	LT & RT	180	---	---	---	---	180	---	5	---	0.11	4.9	0.2	C-004223 INSERT CULVERT LINER
269+64	-	270+38	LT & RT	570	60	15	---	---	570	20	5	---	0.38	16.5	0.6	C-004224 INSTALLATION / SIDEROAD DITCH GRADING
270+38	-	270+89	LT & RT	120	130	35	---	---	120	---	---	---	0.18	7.6	0.3	C-004224 REMOVAL
270+89	-	271+67	RT	260	---	---	---	---	260	15	---	---	0.20	8.6	0.3	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
271+84	-	273+29	RT	470	---	---	---	---	470	15	3	---	0.37	15.7	0.6	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
273+40	-	275+86	RT	850	---	---	---	---	850	30	3	---	0.67	28.9	1.1	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
276+01	-	278+73	RT	790	---	---	---	---	790	30	3	---	0.62	26.5	1.0	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
279+00	-	280+63	RT	320	---	---	---	---	320	15	3	---	0.29	12.4	0.5	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
279+30	-	280+56	LT	210	---	---	---	---	210	---	5	---	0.21	8.9	0.3	DITCH GRADING
280+56	-	281+18	LT	40	60	15	---	---	40	---	1	---	0.04	1.9	0.1	CTH C CULVERT REPLACEMENT
299+03	-	299+34	LT & RT	180	---	---	---	---	180	---	5	---	0.11	4.9	0.2	C-004225 INSERT CULVERT LINER
319+40	-	320+06	LT	110	---	---	---	---	110	20	5	---	0.11	4.9	0.2	DITCH SHAPED AND REGRADED
363+15	-	363+45	LT & RT	50	110	30	---	---	50	---	5	34	0.03	1.4	0.1	C-004227 REPLACEMENT
UNDISTRIBUTED			---	580	80	20	5	3	580	---	---	---	0.51	21.8	0.7	
			TOTALS =	**6,300**	**790**	**205**	**5**	**3**	**6,300**	**165**	**79**	**34**	**5.60**	**240.0**	**8.0**	

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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TRAFFIC CONTROL

LOCATION	OPERATIONS	DURATION (DAYS)	643.0300 DRUMS (EACH)	643.0300 DRUMS (DAYS)	643.0420 BARRICADES TYPE III (EACH)	643.0420 BARRICADES TYPE III (DAYS)	643.0705 WARNING LIGHT TYPE A (EACH)	643.0705 WARNING LIGHT TYPE A (DAYS)	643.0900 SIGNS (EACH)	643.0900 SIGNS (DAYS)	643.1000* SIGNS FIXED MESSAGE (SF)	208.1500.S TEMPORARY LANE SHIFT DURING CULVERT WORK (EACH)
1+25 - 17+50	INFILTRATION TRENCH INSTALLATION	6	40	240	---	---	---	---	8	48	---	---
17+21 - 22+45 RT	DITCH GRADING AND DRIVEWAY CULVERT INSTALLATION	1	20	20	2	2	4	4	8	8	---	---
21+57 RT	HEMLOCK LANE CULVERT REPLACEMENT	1	35	35	3	3	6	6	12	12	---	2
22+57	C-63-155-004215 ENDWALLS	0.5	15	15	---	---	---	---	8	4	---	---
35+38	C-63-155-004216 REPLACEMENT	0.5	25	25	1	1	2	2	8	4	---	1
48+28	C-63-155-004217 ENDWALLS	0.5	15	15	---	---	---	---	8	4	---	---
59+15	C-63-155-004218 ENDWALLS	0.5	15	15	---	---	---	---	8	4	---	---
157+10	C-63-155-004220 REPLACEMENT	0.5	25	25	1	1	2	2	8	4	---	1
184+55	C-63-155-004221 REPLACEMENT	0.5	25	25	1	1	2	2	8	4	---	1
186+66	C-63-155-004222 JOINT REPAIR	3	10	30	---	---	---	---	8	24	---	---
203+64	C-63-155-004223 LINER INSERT	2	15	30	---	---	---	---	8	16	---	---
269+67	LOLLYCOOGAN LANE LT DITCH GRADING	1	6	6	2	2	4	4	4	4	---	---
270+13	C-63-155-004224 REMOVAL AND INSTALLATION	1	35	35	1	1	2	2	8	8	---	1
270+89 -280+63	DITCH GRADING AND DRIVEWAY CULVERT INSTALLATION	2	35	70	2	4	4	8	16	32	---	---
280+89	CTH C CULVERT REPLACEMENT	1	15	15	2	2	4	4	12	12	---	1
299+19	C-63-155-004225 LINER INSERT	2	15	30	---	---	---	---	8	16	---	---
318+00 - 321+50	LT DITCH GRADING AND RIPRAP	1	15	15	---	---	---	---	8	8	---	---
363+31	C-63-155-004227 REPLACEMENT	1	25	25	1	1	2	2	8	8	---	1
CULVERT REPLACEMENT LOOSE GRAVEL SIGNING		10	---	---	---	---	---	---	2	60	---	---
MAINLINE MILLING AND PAVING		20	---	---	---	---	---	---	---	---	---	---
RUMBLE STRIPS / PAVEMENT MARKINGS / SNOW XINGS		10	---	---	---	---	---	---	---	---	---	---
PROJECT 9205-03-60 **		45	---	---	---	---	---	---	57	2,565	36	---
		TOTALS =	**671**		**18**		**36**		**2,845**		**36**	**8**

*NOTES: HWY ROAD WORK BEGINS (G20-57) SIGNS PLACED AT THE PROJECT TERMINI.
SIGNS PLACED SEVEN (7) DAYS PRIOR TO CONSTRUCTION.
REMOVE WHEN CONSTRUCTION BEGINS.

** SIDE ROADS

STATION	SIDE	ROAD	STATION	SIDE	ROAD
1+92	LT	SCHOOL ROAD	267+67	LT	LEONARD LANE
7+03	LT	VETERAN'S DRIVE	269+67	LT	LOLLY COOGAN LANE
12+91	RT	BIRCHWOOD DRIVE	281+16	LT	CTH C
21+58	RT	HEMLOCK LANE	293+82	LT	PINE ACRES BLVD
30+46	LT	WEBER LANE	302+28	RT	WHITE PINE LANE
41+36	RT	LEISURE LANE	319+01	RT	BIRCH SPRINGS ROAD
52+17	LT	HALF MILE ROAD	320+92	LT	KURTZWEIL ROAD
54+01	RT	APACHE TRAIL	327+43	LT	PLUM LAKE DRIVE
64+68	RT	APACHE TRAIL	327+48	RT	PLUM LAKE DRIVE
72+62	RT	PEDYCORT ROAD	339+95	LT	KURTZWEIL ROAD
103+72	RT	JUVE ROAD	340+51	LT	FROELICH STREET
121+97	LT	BIG ST GERMAIN DRIVE	340+78	RT	CTY HWY N EAST
147+76	RT	LOST LAKE DRIVE S.	350+38	LT	PETERSON STREET
185+04	RT	LOST LAKE ROAD	351+05	RT	OLSON STREET
202+57	RT	GABE LANE	355+33	LT	CARL ELIASON STREET
207+95	RT	LOST LAKE DRIVE N.	355+50	RT	FRONT STREET
226+95	RT	LOST LAKE DRIVE W.	358+96	LT	SMITH STREET
256+74	RT	HEELER ROAD	358+97	RT	SMITH STREET

MOVING SIGNS & SUPPORTS

STATION	LOCATION	638.2102 MOVING SIGNS TYPE II (EACH)	638.4000 MOVING SMALL SIGN SUPPORTS (EACH)
0+32.4	HEMLOCK LN, LT	1	1
0+36.8	HEMLOCK LN, LT	1	1
0+41.6	HEMLOCK LN, RT	1	1
1+10	LOLLYCOOGAN LN, LT	1	1
0+64	CTH C, LT	2	1
0+63.7	CTH C, LT	1	1
UNDISTRIBUTED		7	7
	TOTALS =	**14**	**13**

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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PAVEMENT MARKING LINE

STATION	TO	STATION	LOCATION	643.3165 TEMPORARY PAINT 6-INCH YELLOW SOLID (LF)	643.3165 TEMPORARY PAINT 6-INCH YELLOW DASH (LF)	643.3170 TEMPORARY EPOXY 6-INCH YELLOW SOLID (LF)	643.3170 TEMPORARY EPOXY 6-INCH YELLOW DASH (LF)	646.2040 GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SOLID (LF)	646.2040 GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW DASH (LF)	646.2040 GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE EDGELINE (LF)	646.4720 SAME DAY EPOXY 6-INCH YELLOW SOLID (LF)	646.4720 SAME DAY EPOXY 6-INCH YELLOW DASH (LF)	648.0100 LOCATING NO-PASSING ZONES (MI)
0+77	-	6+00	MAINLINE	523	42	---	---	---	---	1,046	523	131	---
6+00	-	11+68	MAINLINE	---	45	---	---	---	---	1,136	---	142	---
11+68	-	15+40	MAINLINE	372	30	---	---	---	---	634	372	93	---
15+40	-	20+65	MAINLINE	525	42	525	42	525	131	1,050	---	---	---
20+65	-	26+38	MAINLINE	1,146	---	1,146	---	1,146	---	1,096	---	---	---
26+38	-	34+35	MAINLINE	797	64	797	64	797	199	1,534	---	---	---
34+35	-	44+84	MAINLINE	---	84	---	84	---	262	2,043	---	---	---
44+84	-	50+41	MAINLINE	557	45	557	45	557	139	1,114	---	---	---
50+41	-	52+60	MAINLINE	---	18	---	18	---	55	358	---	---	---
52+60	-	58+70	MAINLINE	610	49	610	49	610	153	1,160	---	---	---
58+70	-	59+70	MAINLINE	---	8	---	8	---	25	200	---	---	---
59+70	-	67+74	MAINLINE	804	64	804	64	804	201	1,533	---	---	---
67+74	-	114+87	MAINLINE	9,426	---	9,426	---	9,426	---	9,286	---	---	---
114+87	-	119+97	MAINLINE	510	41	510	41	510	128	1,020	---	---	---
119+97	-	122+74	MAINLINE	277	22	277	22	277	69	439	---	---	---
122+74	-	128+86	MAINLINE	---	49	---	49	---	153	1,224	---	---	---
128+86	-	136+75	MAINLINE	789	63	789	63	789	197	1,578	---	---	---
136+75	-	183+34	MAINLINE	9,318	---	9,318	---	9,318	---	9,273	---	---	---
183+34	-	191+76	MAINLINE	842	67	842	67	842	211	1,609	---	---	---
191+76	-	210+44	MAINLINE	---	149	---	149	---	467	3,691	---	---	---
210+44	-	217+69	MAINLINE	725	58	725	58	725	181	1,390	---	---	---
217+69	-	229+54	MAINLINE	2,370	---	2,370	---	2,370	---	2,370	---	---	---
229+54	-	237+66	MAINLINE	812	65	812	65	812	203	1,624	---	---	---
237+66	-	258+77	MAINLINE	---	169	---	169	---	528	4,172	---	---	---
258+77	-	267+28	MAINLINE	851	68	851	68	851	213	1,702	---	---	---
267+28	-	282+43	MAINLINE	3,030	---	3,030	---	3,030	---	2,888	---	---	---
282+43	-	283+16	MAINLINE	73	6	73	6	73	18	146	---	---	---
283+16	-	290+58	MAINLINE	742	59	742	59	742	186	1,484	---	---	---
290+58	-	301+31	MAINLINE	---	86	---	86	---	268	2,081	---	---	---
301+31	-	309+88	MAINLINE	857	69	857	69	857	214	1,664	---	---	---
309+88	-	317+77	MAINLINE	1,578	---	1,578	---	1,578	---	1,578	---	---	---
317+77	-	325+41	MAINLINE	764	61	764	61	764	191	1,431	---	---	---
325+41	-	326+05	MAINLINE	64	5	---	---	---	---	128	64	16	---
326+05	-	326+34	MAINLINE	58	---	---	---	---	---	58	58	---	---
326+34	-	332+33	MAINLINE	599	48	---	---	---	---	1,043	599	150	---
332+33	-	341+51	MAINLINE	1,836	---	---	---	---	---	1,701	1,836	---	---
341+51	-	348+65	MAINLINE	714	57	---	---	---	---	1,428	714	179	---
348+65	-	362+19	MAINLINE	---	108	---	---	---	---	2,513	---	339	---
362+19	-	366+59	MAINLINE	440	35	---	---	---	---	880	440	110	---
			SUBTOTALS =	42,009	1,776	37,403	1,405	37,403	4,392	71,304	4,606	1,159	6.93
			TOTALS =	**43,785**		**38,808**		**113,099**			**5,765**		**6.93**

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

3

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.6000 PIPE CULVERTS (EACH)	650.8000 RESURFACING REFERENCE (LF)	650.9920 SLOPE STAKES (LF)	REMARKS
17+21	-	18+54	STH 155 RT	0.5	---	135	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
18+80	-	21+44	STH 155 RT	1	---	265	DRIVEWAY CULVERT INSTALLATION/DITCH GRADING/HEMLOCK LN CULVERT REPLACEMENT
21+72	-	22+45	STH 155 RT	0.5	---	75	HEMLOCK LN CULVERT REPLACEMENT/DITCH GRADING
34+84	-	35+93	STH 155 LT & RT	1	---	---	C-004216 REPLACEMENT
156+55	-	157+66	STH 155 LT & RT	1	---	---	C-004220 REPLACEMENT
183+98	-	185+11	STH 155 LT & RT	1	---	---	C-004221 REPLACEMENT
269+64	-	270+38	STH 155 LT & RT	1	---	---	C-004224 INSTALLATION
00+58	-	02+50	LOLLYCOOGAN LN LT	---	---	195	DITCH GRADING
270+89	-	271+49	STH 155 RT	0.5	---	60	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
271+99	-	273+09	STH 155 RT	1	---	110	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
273+60	-	275+72	STH 155 RT	1	---	215	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
276+18	-	278+60	STH 155 RT	1	---	245	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
279+20	-	280+63	STH 155 RT	0.5	---	145	DITCH GRADING/DRIVEWAY CULVERT INSTALLATION
280+64	-	281+21	STH 155 LT	1	---	---	CTH C CULVERT REPLACEMENT
362+76	-	363+86	STH 155 LT & RT	1	---	---	C-004227 REPLACEMENT
00+77	-	366+59	STH 155 LT & RT	---	36,582	---	PROJECT 9205-03-60
			TOTALS =	**12**	**36,582**	**1,445**	

3

SAWING ASPHALT

STATION	TO	STATION	LOCATION	690.0150 (LF)	REMARKS
21+29	-	21+99	RT	70	HEMLOCK LANE CULVERT REPLACEMENT
34+84	-	35+93	CL	56	63-155-004216 CULVERT REPLACEMENT
156+55	-	157+66	CL	56	63-155-004220 CULVERT REPLACEMENT
183+98	-	185+11	CL	56	63-155-004221 CULVERT REPLACEMENT
269+64	-	271+10	CL	88	63-155-004224 CULVERT REPLACEMENT
275+82	-	276+13	RT	42	DRIVEWAY CULVERT REPLACEMENT
280+66	-	281+01	LT	76	CTH C CULVERT REPLACEMENT
362+76	-	363+86	CL	56	63-155-004227 CULVERT REPLACEMENT
			TOTAL =	**500**	

REESTABLISH SECTION CORNER MONUMENTS

STATION	LOCATION	SPV.0060.03 (EACH)
52+08	STH 155 RT	1
103+62	STH 155 RT	1
	TOTAL =	**2**

GRADING AND SHAPING DITCH

STATION	TO	STATION	LOCATION	SPV.0090.01 (LF)
17+21	-	18+54	STH 155 RT	135
18+80	-	21+44	STH 155 RT	265
21+72	-	22+45	STH 155 RT	75
00+58	-	02+50	LOLLYCOOGAN LN LT	195
270+89	-	271+49	STH 155 RT	60
271+99	-	273+09	STH 155 RT	110
273+60	-	275+72	STH 155 RT	215
276+18	-	278+60	STH 155 RT	245
279+20	-	280+63	STH 155 RT	145
279+40	-	280+55	STH 155 LT	115
319+32	-	320+18	STH 155 LT	85
			TOTAL =	**1,645**

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

4

R/W PROJECT NUMBER: 9205-03-20 | EXHIBIT NUMBER: 1

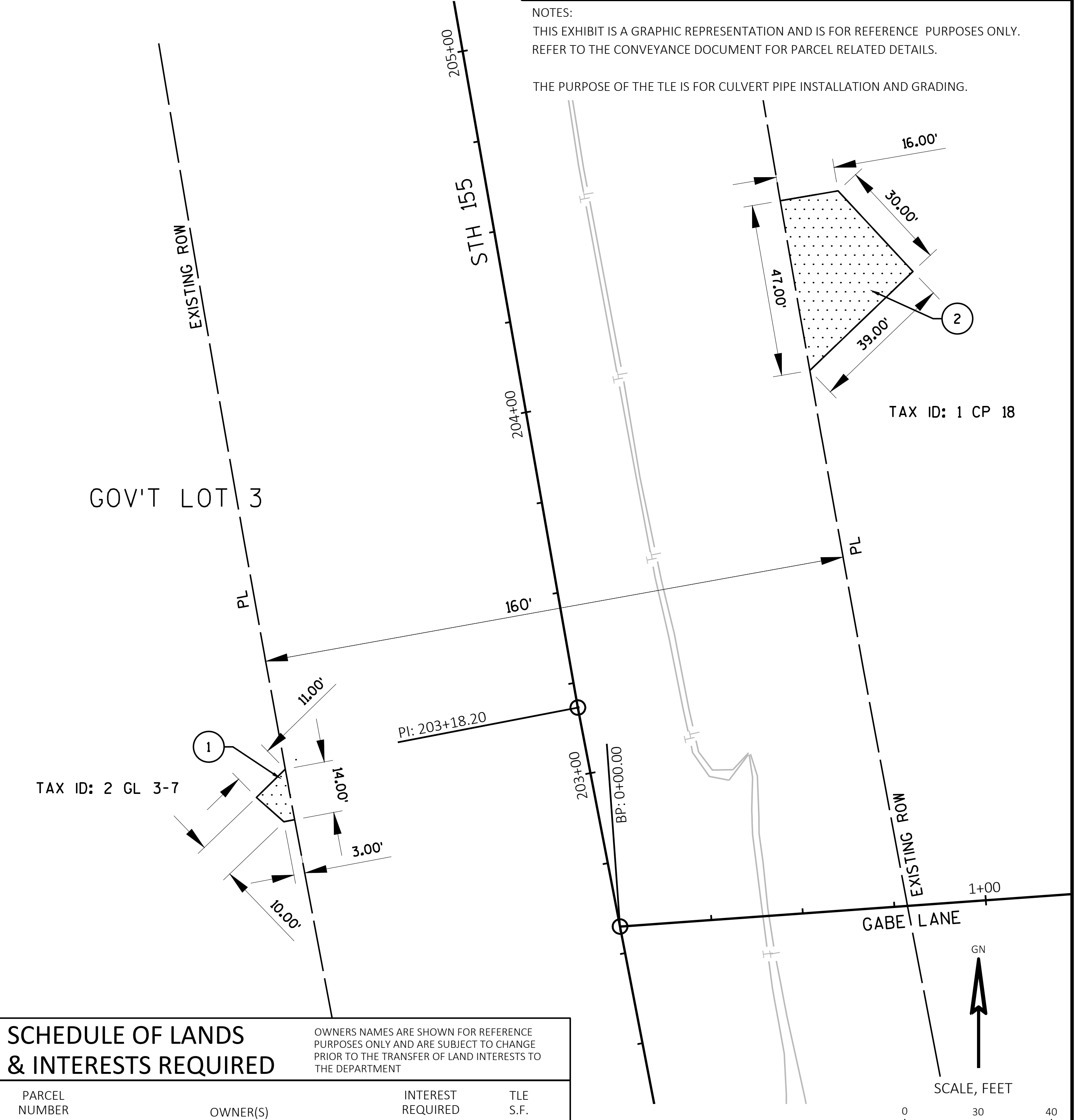
TLE ACQUISITION EXHIBIT
ST. GERMAIN TO SAYNER
SCHOOL ROAD TO LAKE STREET
STH155 VILAS COUNTY

PART OF GOV'T LOT 3 OF SECTION 9, T40N R8E,
TOWN OF ST. GERMAIN, VILAS COUNTY WISCONSIN.

TLE ACQUISITION IS LOCATED APPROXIMATELY 2150 FEET EAST OF THE WEST LINE OF SECTION 9, T 40 N, R 8 E, AND APPROXIMATELY 600 FEET NORTH OF THE EAST-WEST QUARTER LINE OF SECTION 9, T 40 N, R 8 E.

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

THE PURPOSE OF THE TLE IS FOR CULVERT PIPE INSTALLATION AND GRADING.



SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
1	RODERICK INGRAM	TLE	76
2	ED GABE'S LOST LAKE CONDOMINIUM	TLE	961

UTILITY INTERESTS REQUIRED

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

THIS MAP PREPARED BY COLEMAN ENGINEERING COMPANY FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

THIS MAP APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTH CENTRAL REGION.

SIGNATURE: Brent L Stella DATE: 9/8/22

PRINT NAME: Brent L Stella

FILE NAME : 92050330_TLE EXHIBITS.DWG PLOT DATE : 8/31/2022 7:47 AM R/W PROJECT: R/W PROJ NO

4

R/W PROJECT NUMBER: 9205-03-20 | EXHIBIT NUMBER: 2

TLE ACQUISITION EXHIBIT
ST. GERMAIN TO SAYNER
SCHOOL ROAD TO LAKE STREET
STH155 VILAS COUNTY

PART OF THE NE1/4-SW1/4 OF SECTION 5, T40N, R8E, TOWN OF ST. GERMAIN, VILAS COUNTY WISCONSIN

TLE ACQUISITION IS LOCATED APPROXIMATELY 1330 FEET EAST AND 130 FEET SOUTH OF THE WEST QUARTER CORNER OF SECTION 5, T 40 N, R 8 E.

NOTES:
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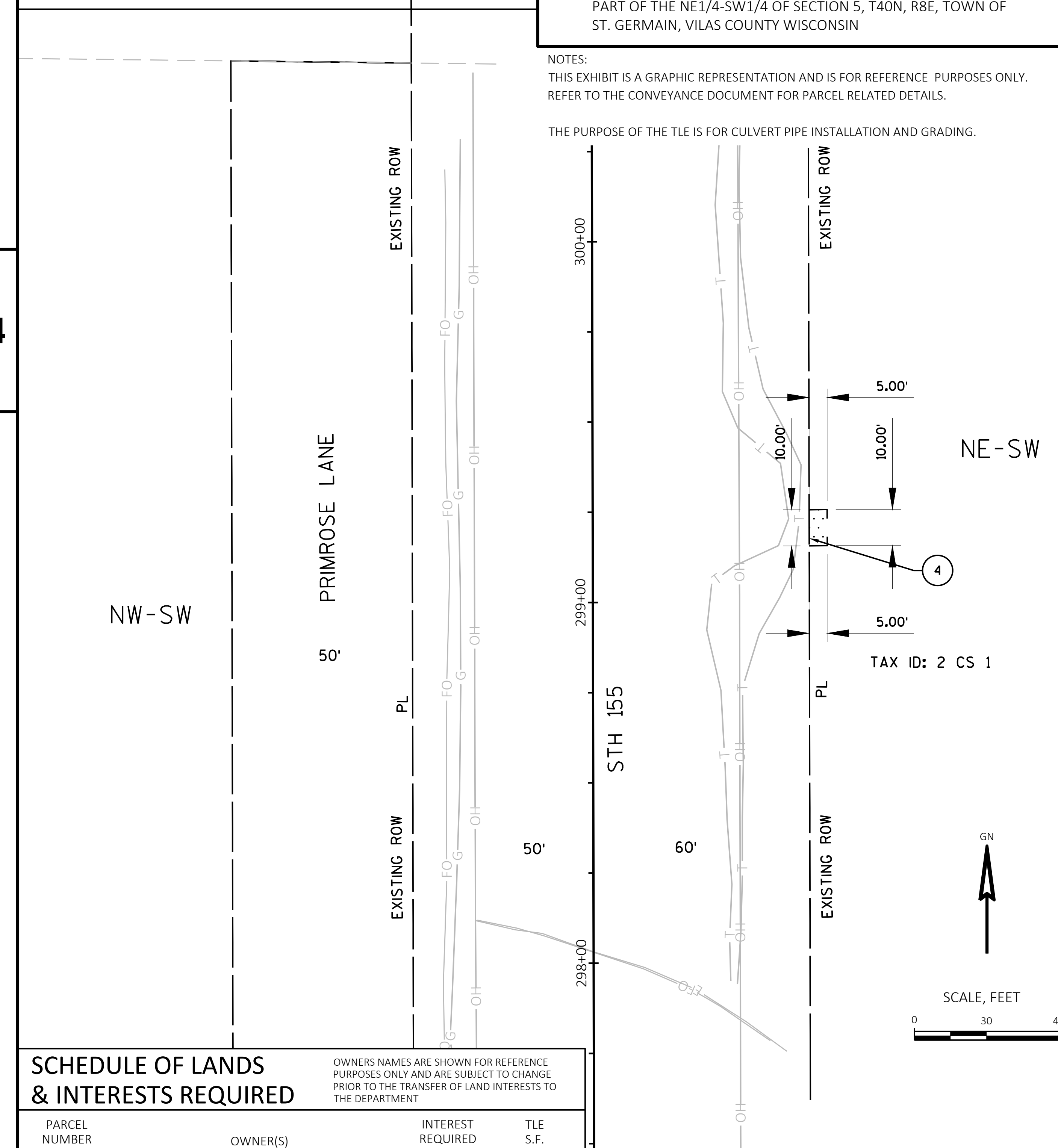
THE PURPOSE OF THE TLE IS FOR CULVERT PIPE INSTALLATION AND GRADING.



SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
4	ZACHARY W. & ANYA M. KENDRICK	TLE	50

UTILITY INTERESTS REQUIRED

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

THIS MAP PREPARED BY COLEMAN ENGINEERING COMPANY FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

THIS MAP APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTH CENTRAL REGION.

SIGNATURE: Brent L Stella DATE: 9/8/22

PRINT NAME: Brent L Stella

FILE NAME : 92050330_TLE EXHIBITS.DWG PLOT DATE : 8/31/2022 7:47 AM R/W PROJECT: R/W PROJ NO

4

R/W PROJECT NUMBER: 9205-03-20	EXHIBIT NUMBER: 3

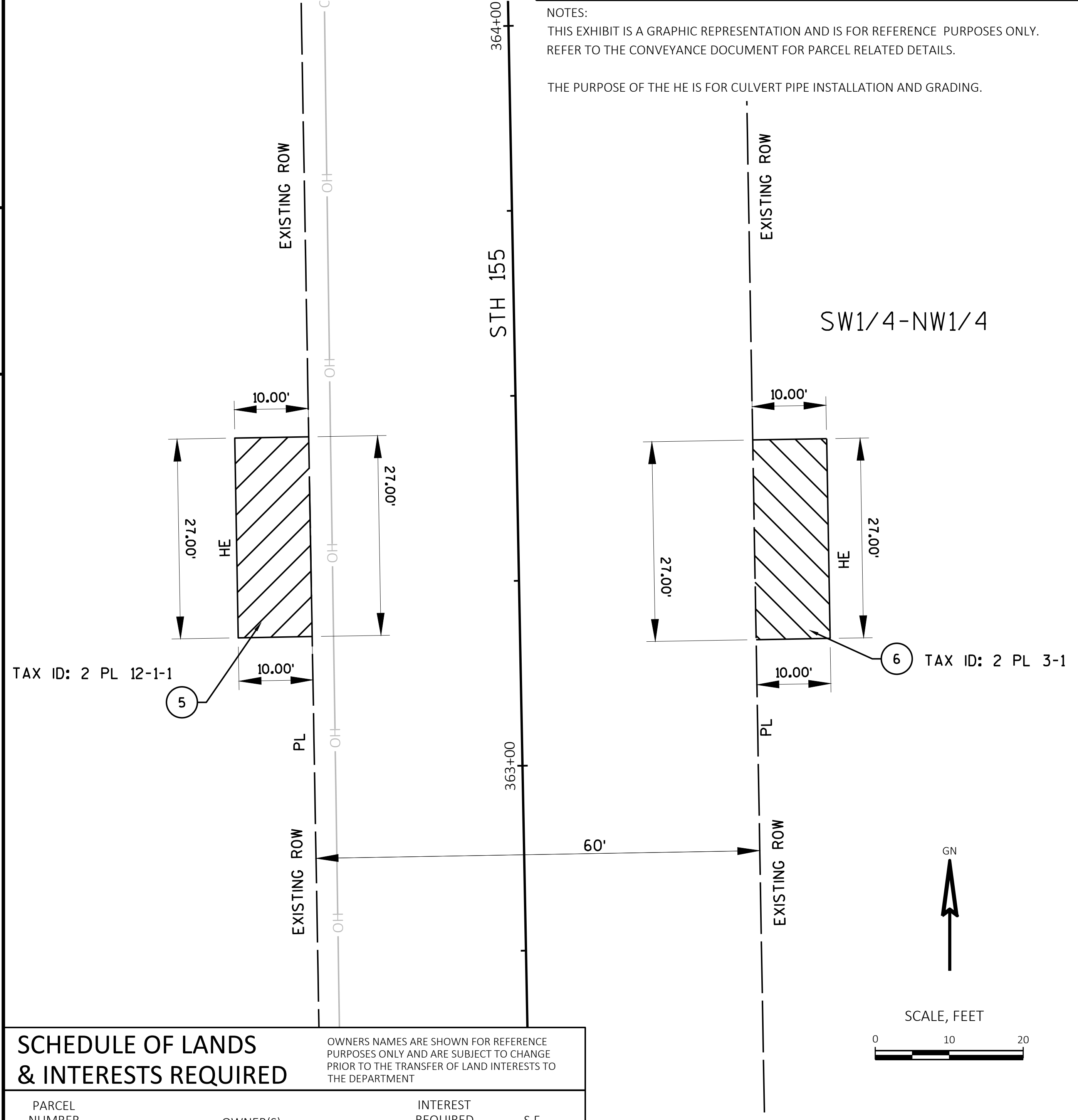
HE ACQUISITION EXHIBIT
ST. GERMAIN TO SAYNER
SCHOOL ROAD TO LAKE STREET
STH155 VILAS COUNTY

PART OF THE SW1/4-NW1/4, SECTION 32,
T41N R8E, TOWN OF PLUM LAKE, VILAS COUNTY WISCONSIN.

HE ACQUISITION IS LOCATED APPROXIMATELY 330 FEET EAST OF THE WEST LINE OF SECTION 32, T 41 N, R 8 E, AND APPROXIMATELY 880 FEET NORTH OF THE EAST-WEST QUARTER LINE OF SECTION 32, T 41 N, R 8 E.

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

THE PURPOSE OF THE HE IS FOR CULVERT PIPE INSTALLATION AND GRADING.



SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	S.F.
5	JULIE D. FROELICH	HE	270
6	TOWN OF PLUM LAKE	HE	270

UTILITY INTERESTS REQUIRED

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

THIS MAP PREPARED BY COLEMAN ENGINEERING COMPANY FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

THIS MAP APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTH CENTRAL REGION.

SIGNATURE: Brent L Stella DATE: 9/8/22

PRINT NAME: Brent L Stella

FILE NAME : 92050330_TLE EXHIBITS.DWG PLOT DATE : 8/31/2022 7:47 AM R/W PROJECT: R/W PROJ NO

4

R/W PROJECT NUMBER: 9205-03-20	EXHIBIT NUMBER: 4

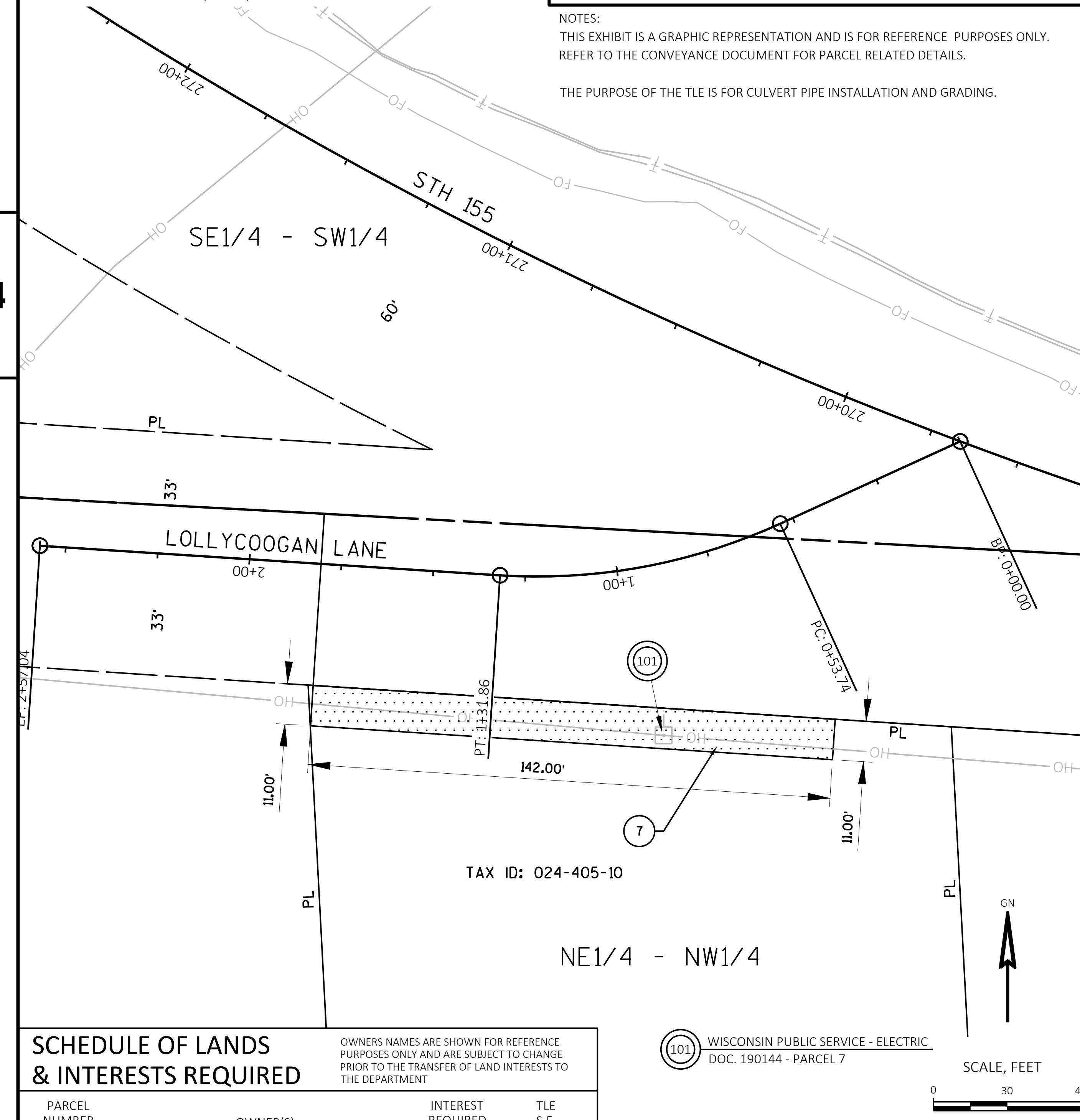
TLE ACQUISITION EXHIBIT
ST. GERMAIN TO SAYNER
SCHOOL ROAD TO LAKE STREET
STH155 VILAS COUNTY

PART OF THE NE1/4-NW1/4 OF SECTION 8, T40N R8E,
TOWN OF ST. GERMAIN, VILAS COUNTY WISCONSIN.

TLE ACQUISITION IS LOCATED APPROXIMATELY 2150 FEET EAST OF THE WEST LINE OF SECTION 9, T 40 N, R 8 E, AND APPROXIMATELY 600 FEET NORTH OF THE EAST-WEST QUARTER LINE OF SECTION 9, T 40 N, R 8 E.

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

THE PURPOSE OF THE TLE IS FOR CULVERT PIPE INSTALLATION AND GRADING.



SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
7	KURT G. AND SARA J. BASINSKI	TLE	1562

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101	WISCONSIN PUBLIC SERVICE - ELECTRIC	TLE

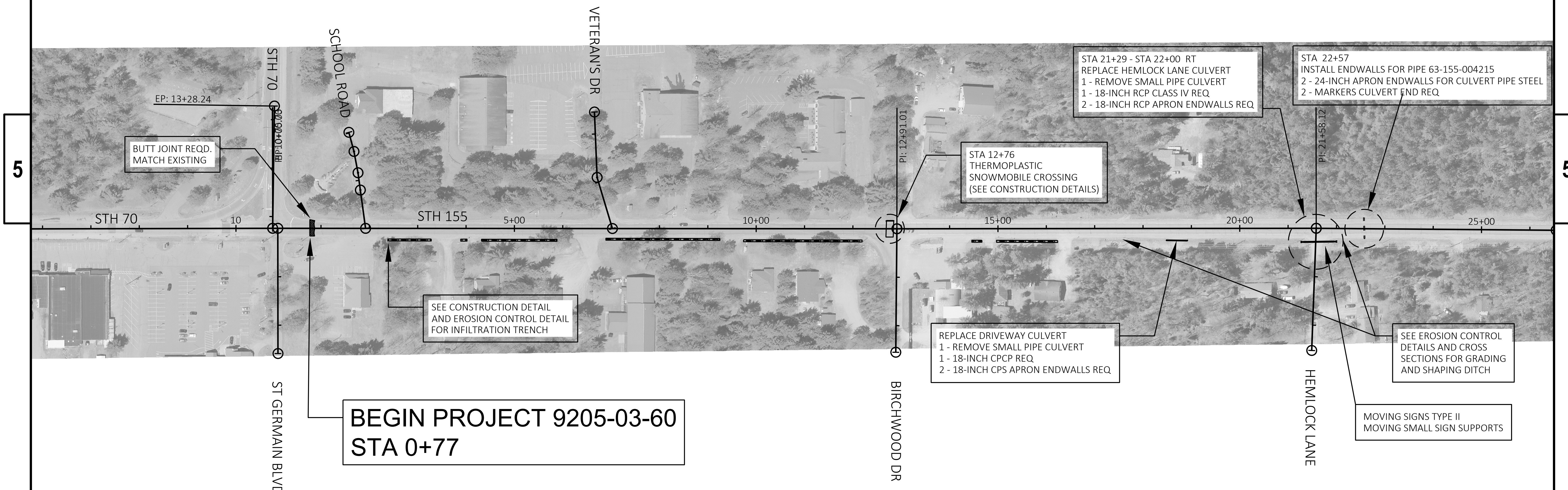
THIS MAP PREPARED BY COLEMAN ENGINEERING COMPANY FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

THIS MAP APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTH CENTRAL REGION.

SIGNATURE: Brent L Stella DATE: 9/8/22

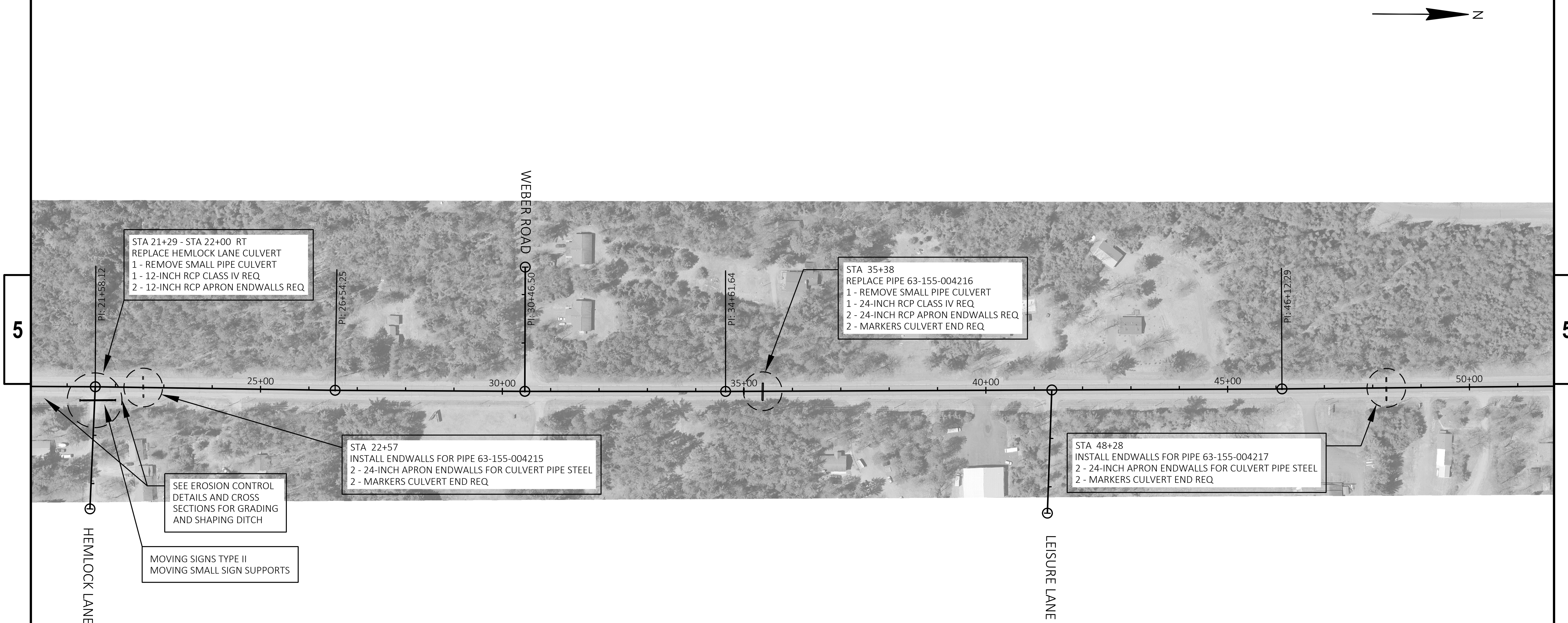
PRINT NAME: Brent L Stella

FILE NAME : 92050330_TLE EXHIBITS.DWG PLOT DATE : 8/31/2022 7:47 AM R/W PROJECT: R/W PROJ NO



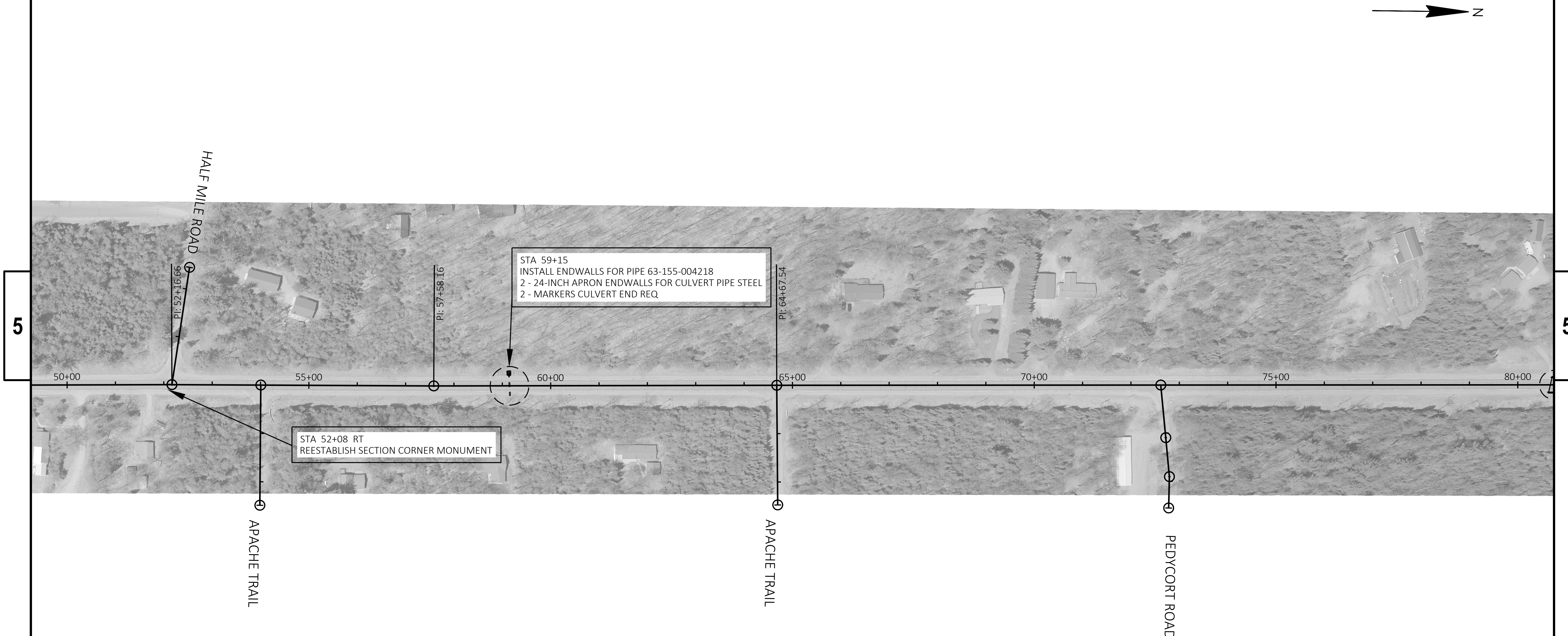
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: ONEIDA	PLAN	SHEET 65	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\050201_PNNEW.DWG
LAYOUT NAME - 01
PLOT DATE : 9/27/2023 11:00 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44



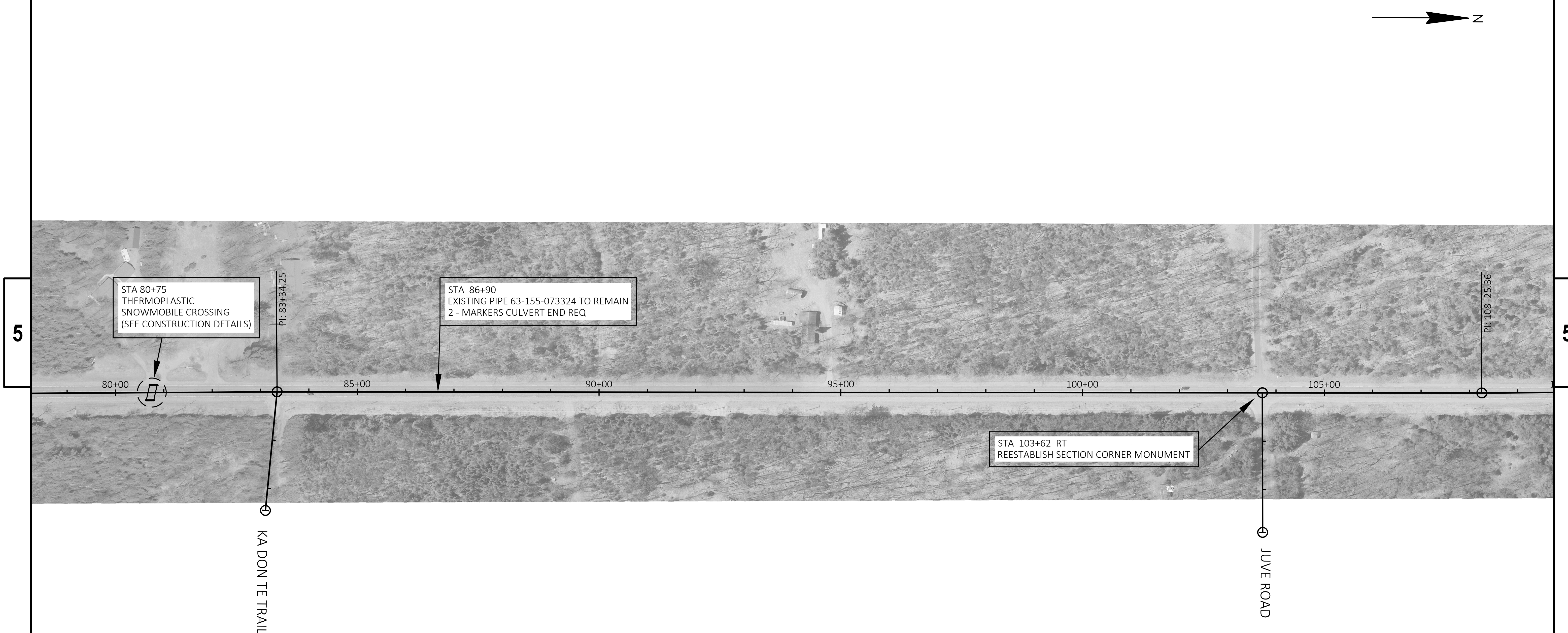
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 66	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\050201_PNNEW.DWG
LAYOUT NAME - 02
PLOT DATE : 9/27/2023 11:00 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

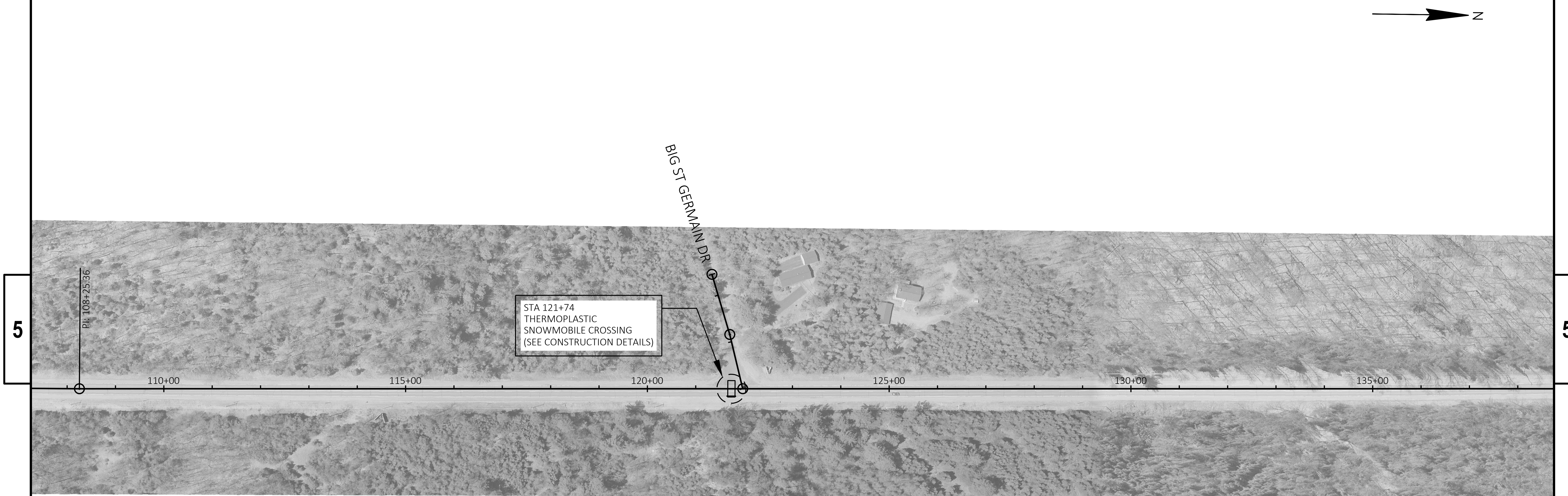


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 67	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\050201_PNNEW.DWG
LAYOUT NAME - 03
PLOT DATE : 9/27/2023 11:00 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

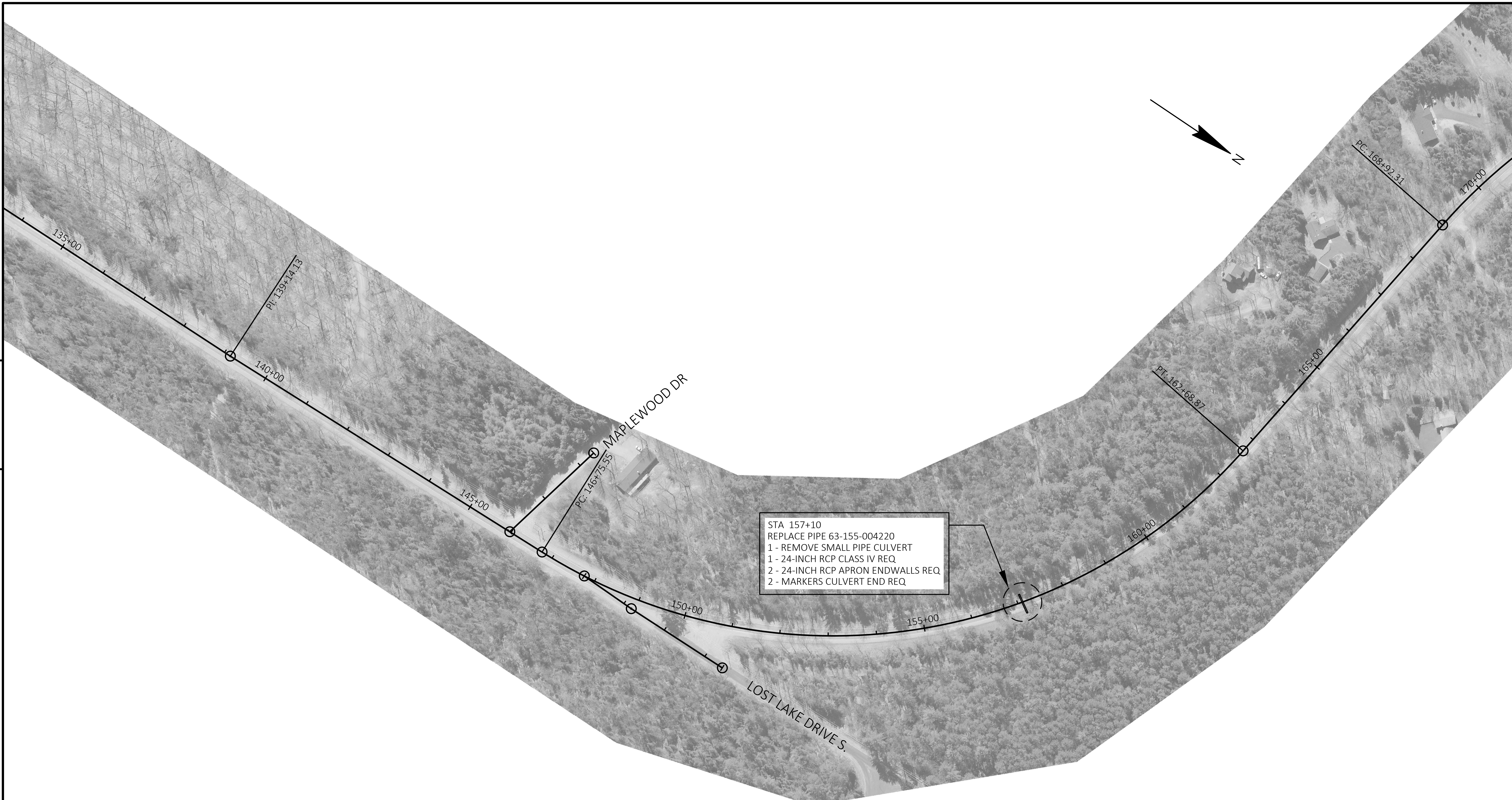


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 68	E

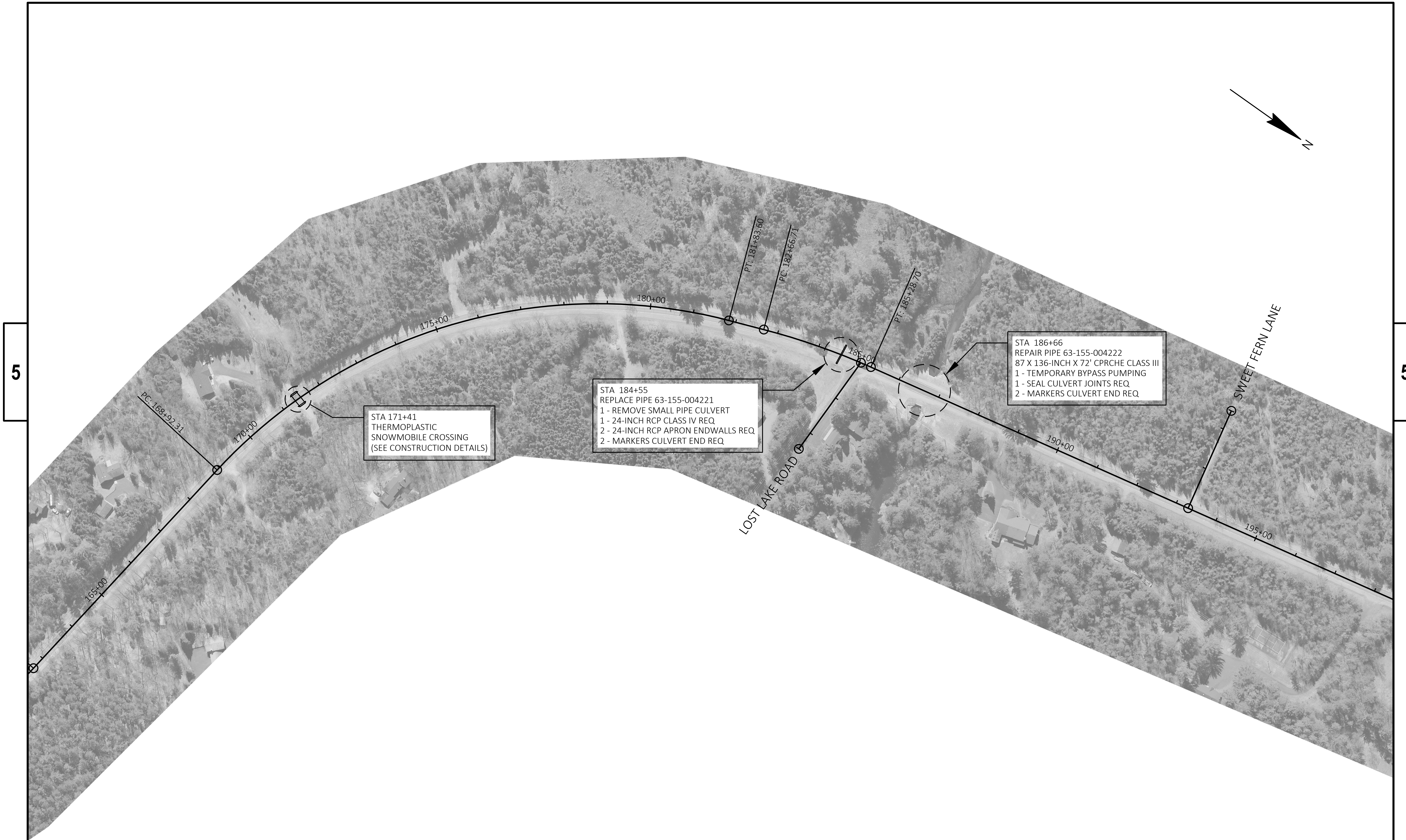


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 69	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\050201_PNNEW.DWG
LAYOUT NAME - 05
PLOT DATE : 9/27/2023 11:00 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

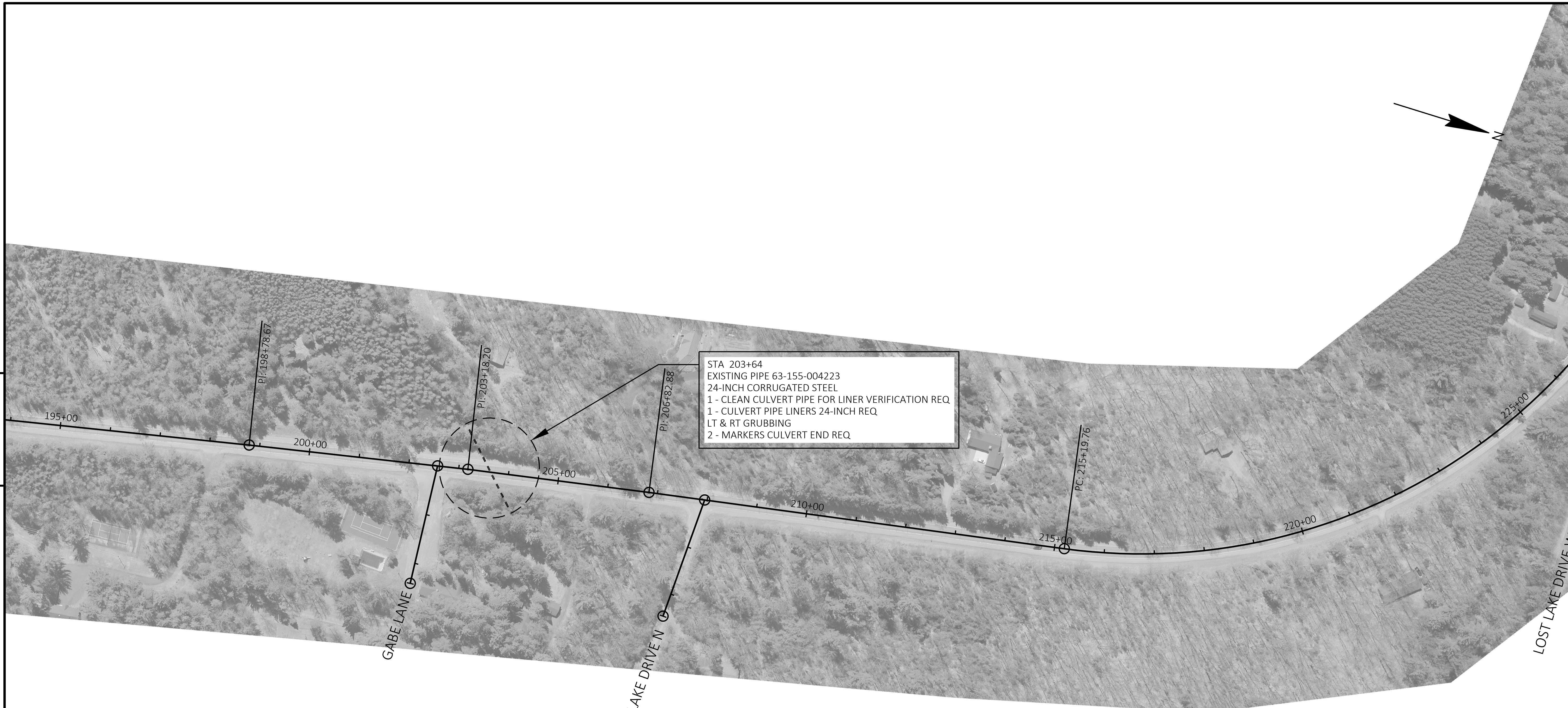


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 70	E



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 71	E

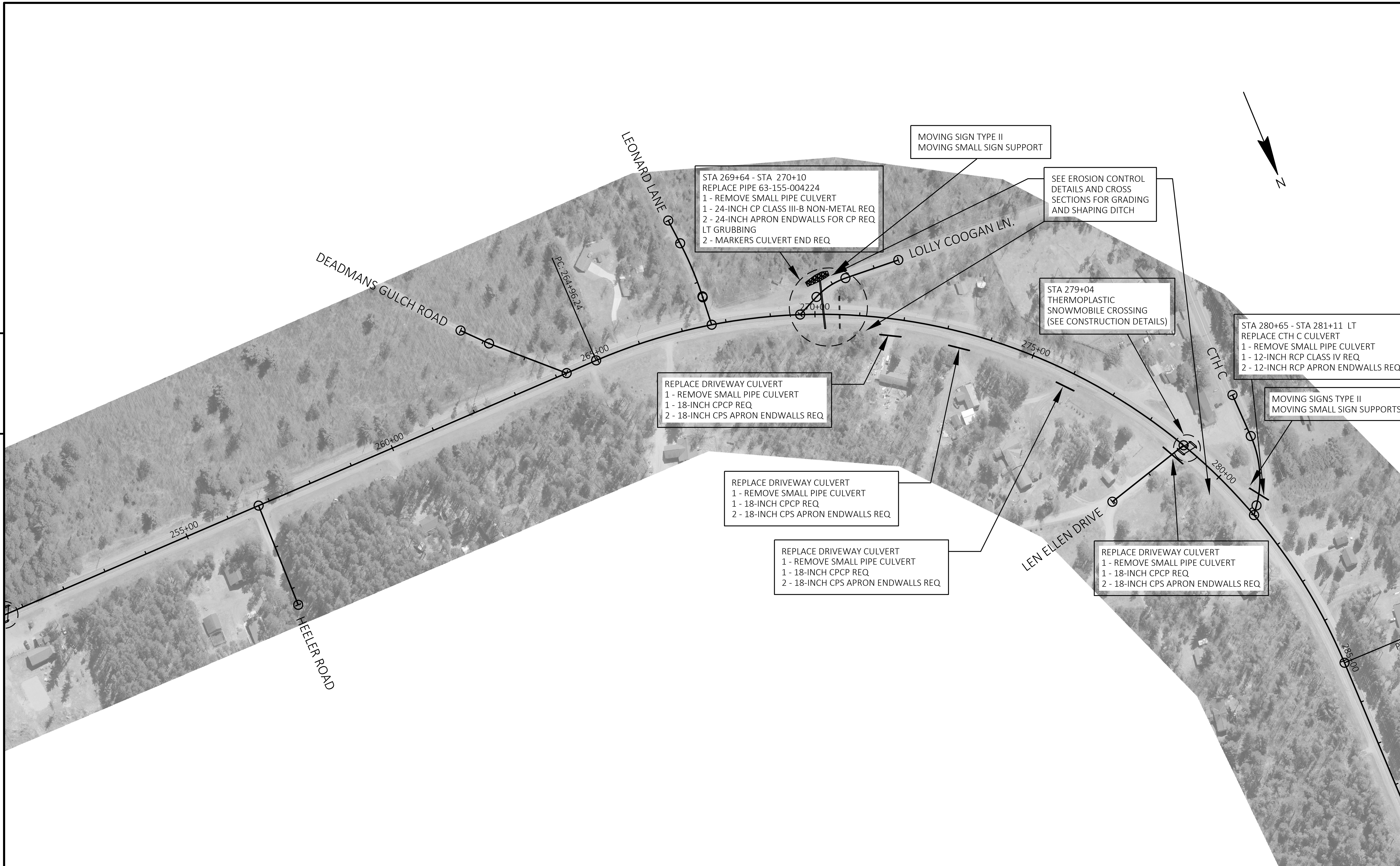
FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\050201_PNNEW.DWG
LAYOUT NAME - 07
PLOT DATE : 9/27/2023 11:00 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 72	E

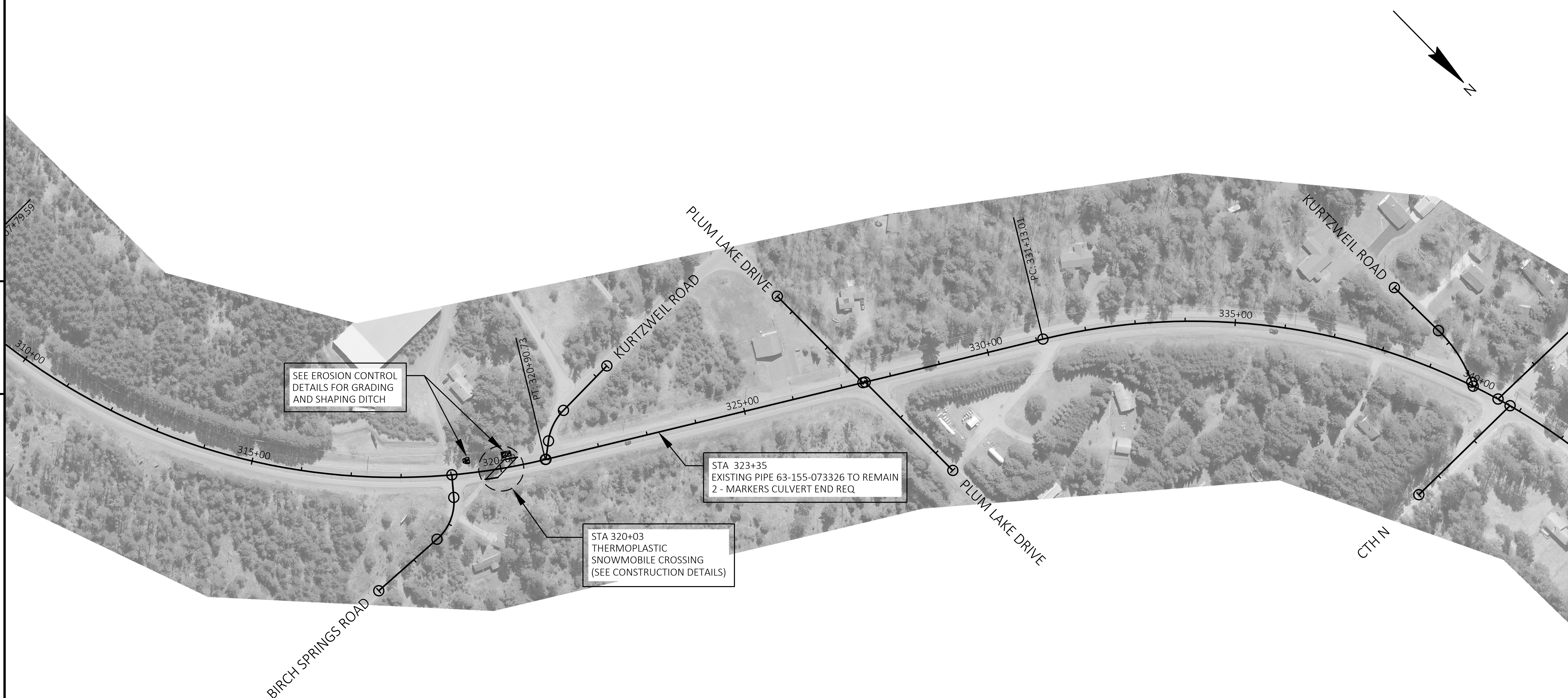
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 73	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\050201_PNNEW.DWG
LAYOUT NAME - 09
PLOT DATE : 9/27/2023 11:00 AM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 74	E

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 75	E



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 76	E

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	PLAN	SHEET 77	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\050201_PNNEW.DWG
LAYOUT NAME - 13
PLOT DATE : 9/27/2023 11:00 AM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

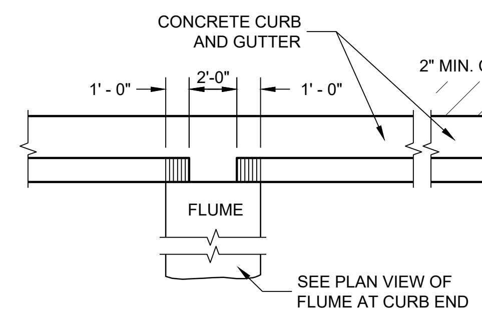
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15C19-08A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D48-01	TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

6

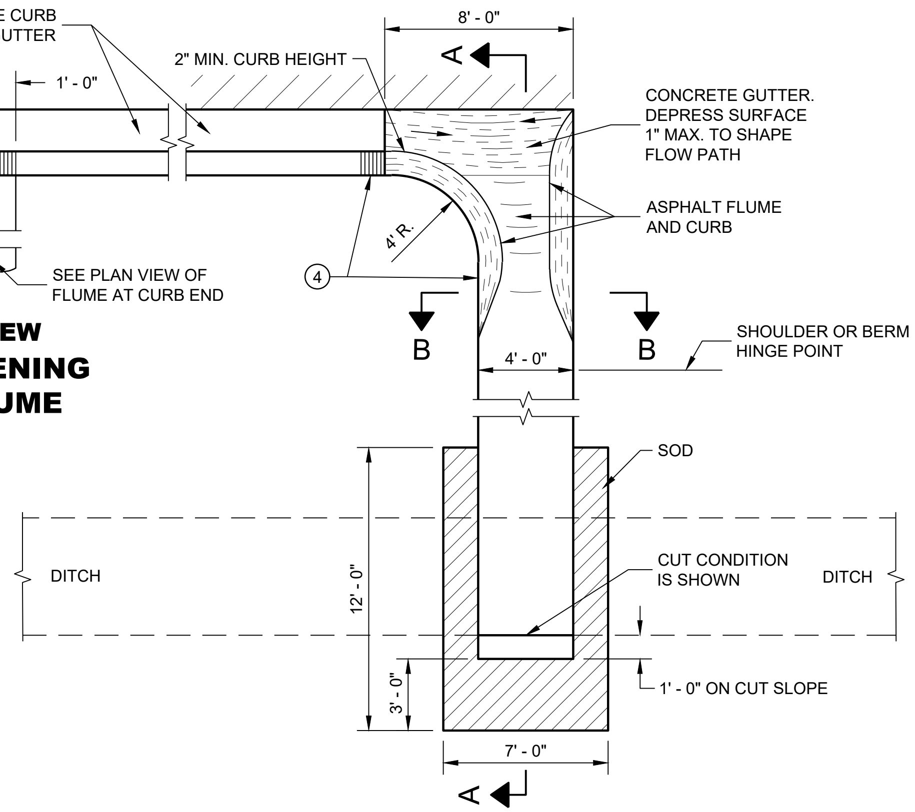
6

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

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME



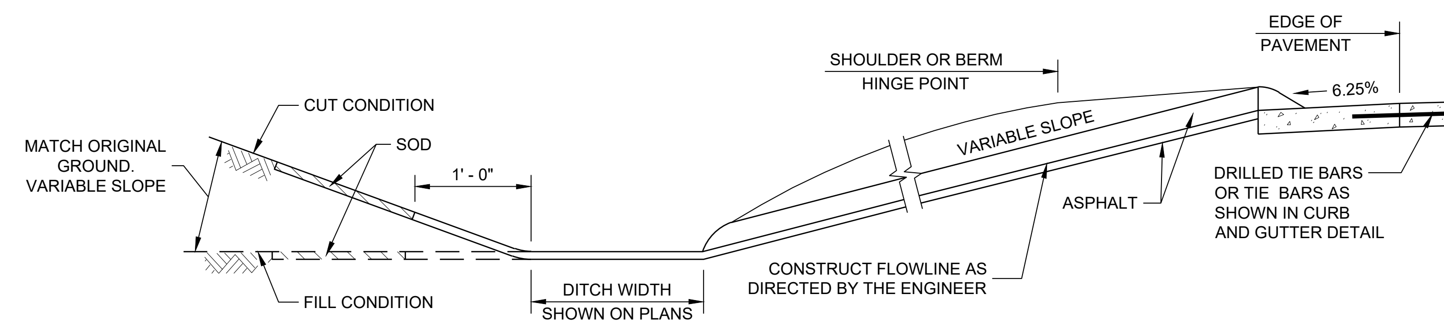
PLAN VIEW
FLUME AT CURB END

GENERAL NOTES

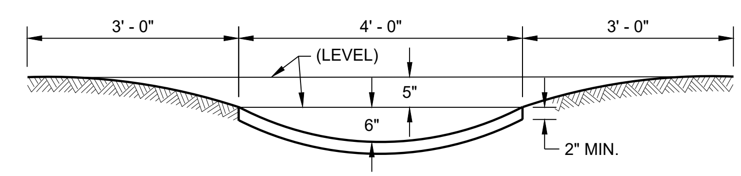
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

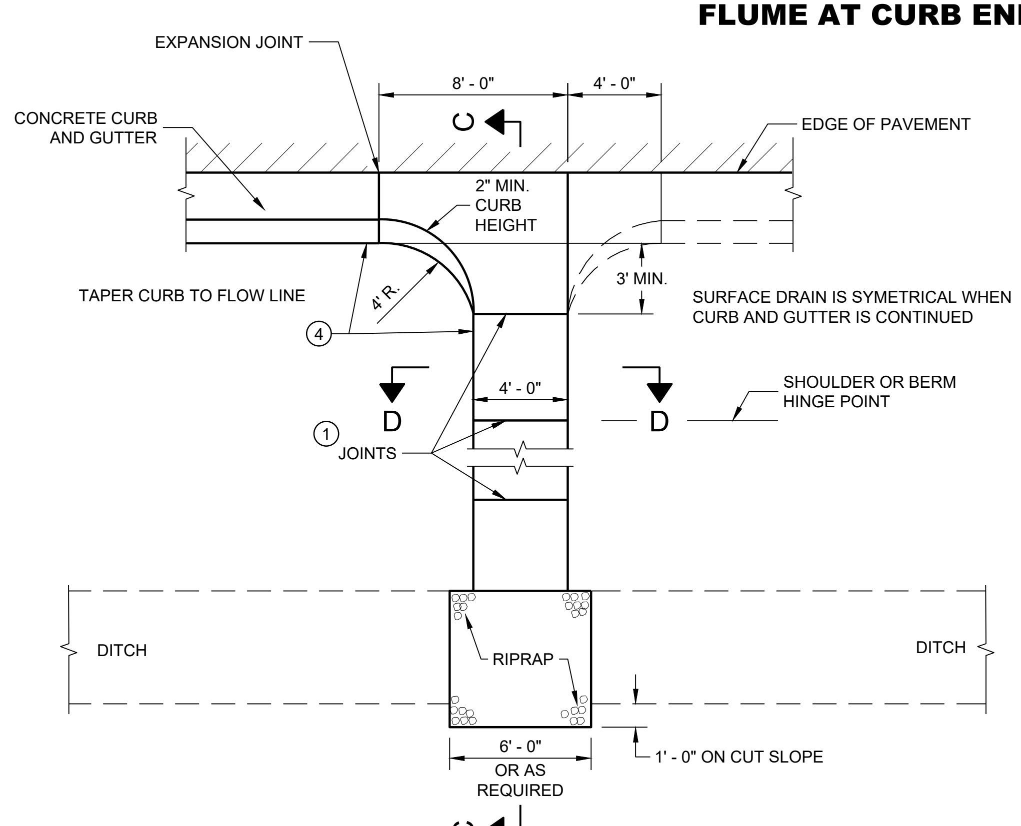
1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4.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



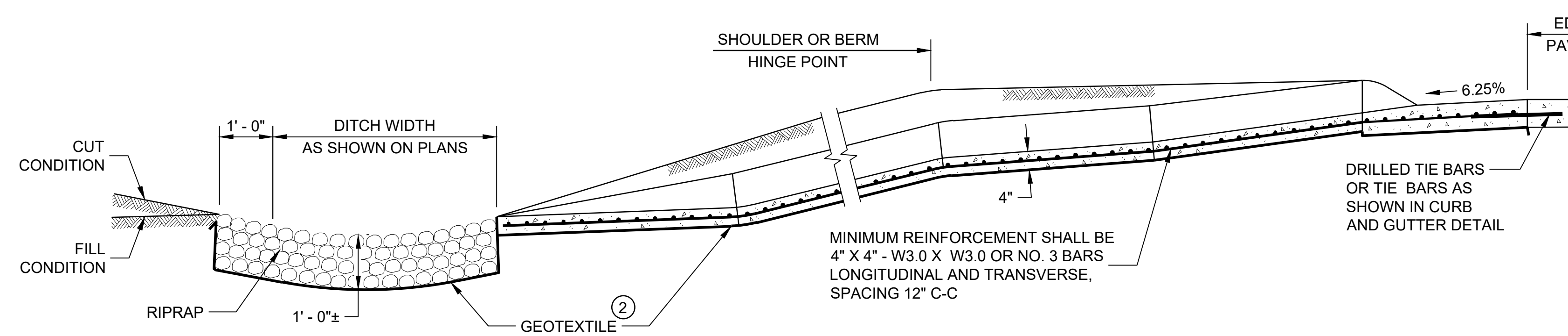
SECTION A - A



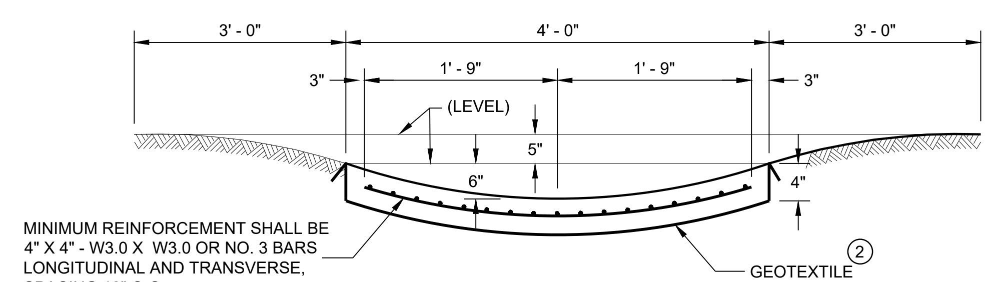
SECTION B - B



PLAN VIEW
CONCRETE SURFACE DRAIN



SECTION C - C



SECTION D - D

6

6

SDD 08D04 - 07

SDD 08D04 - 07

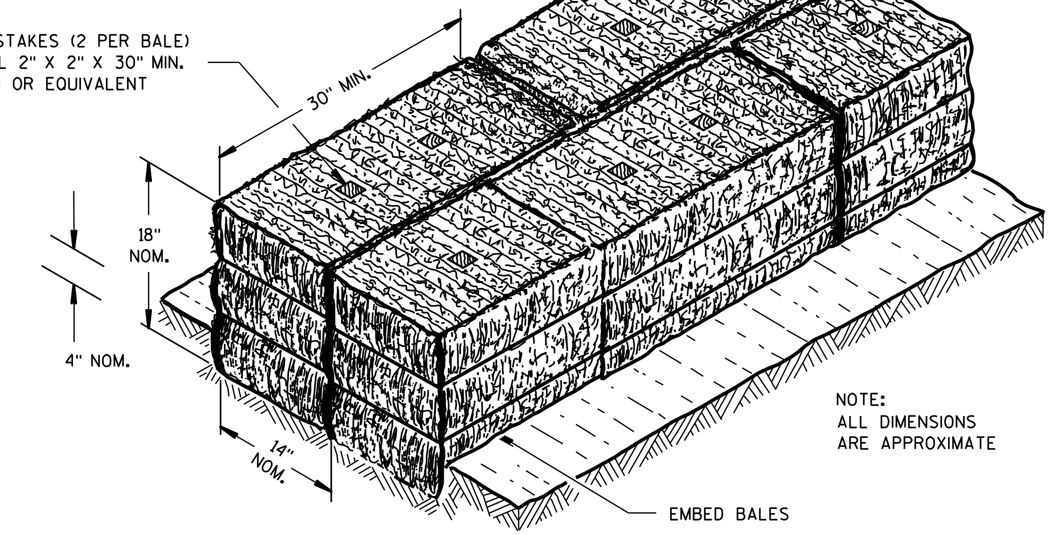
CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED May 2023 DATE /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

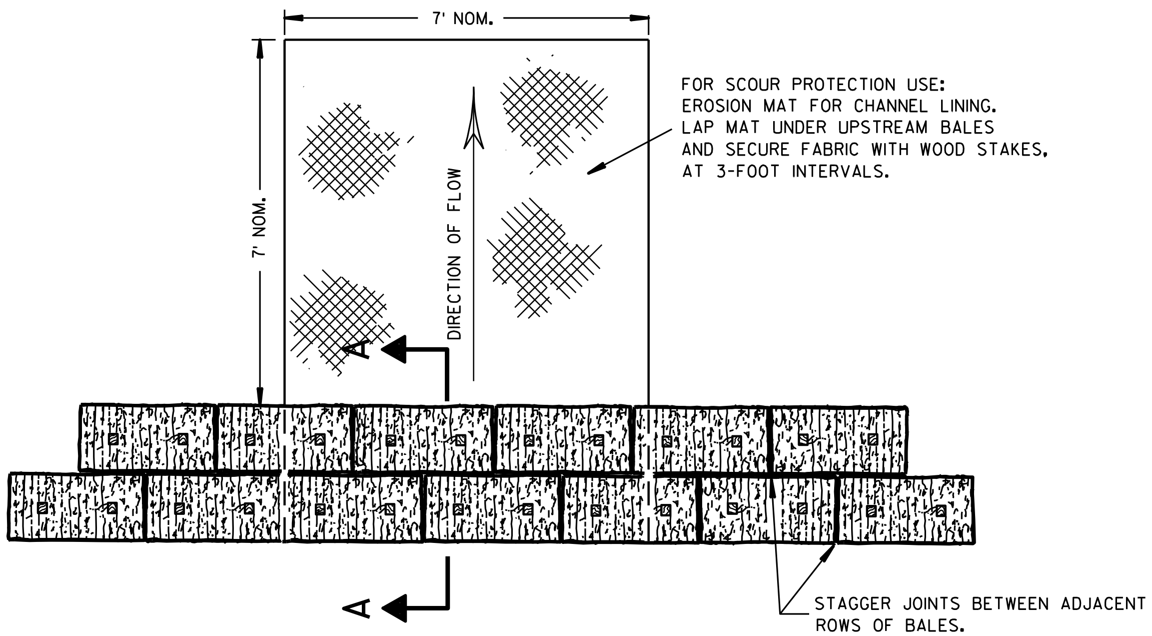
GENERAL NOTES

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.

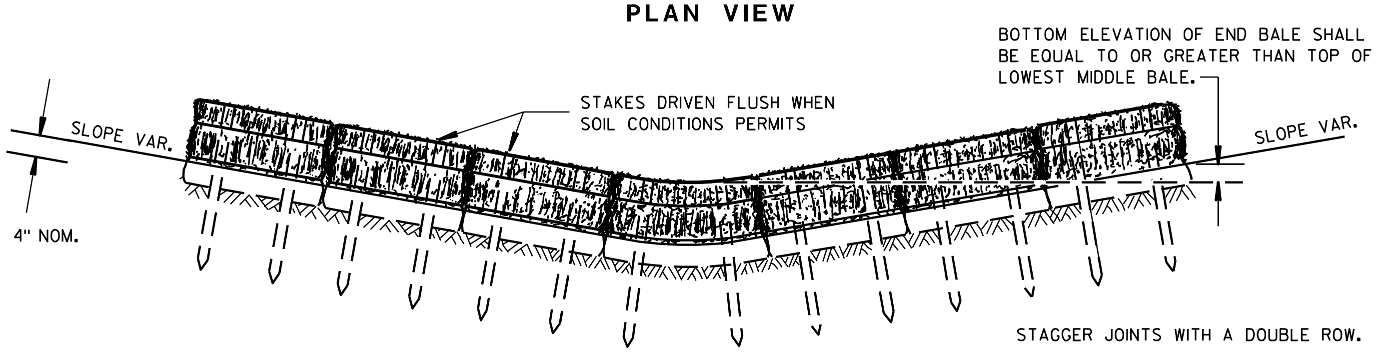
(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



SECTION A-A

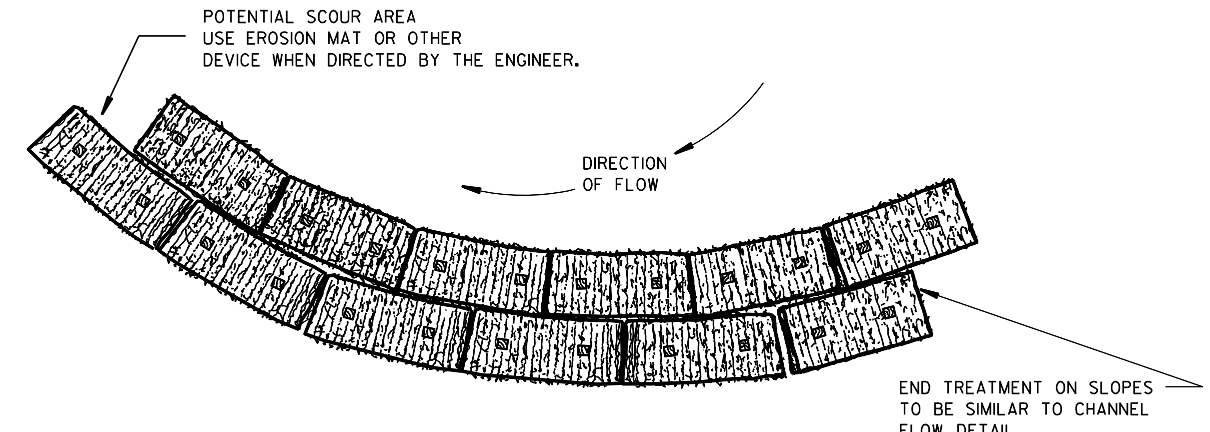


PLAN VIEW



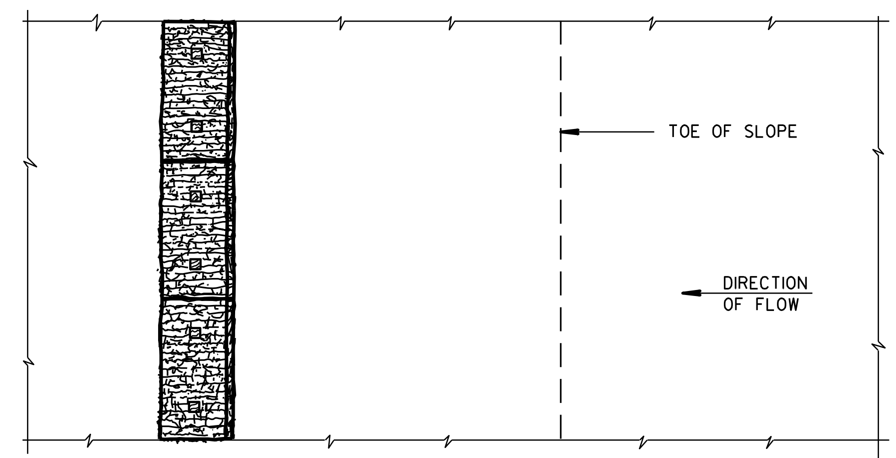
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

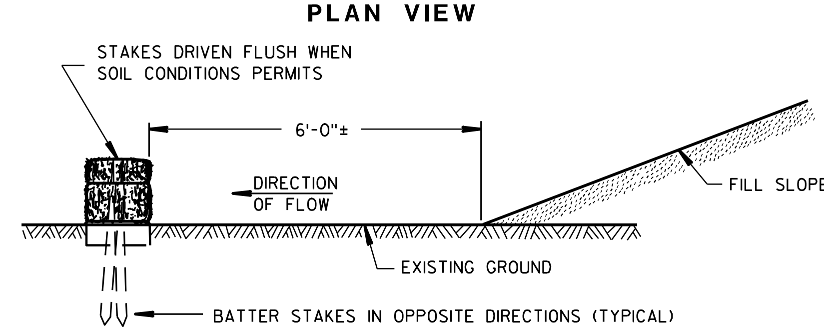


PLAN VIEW

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

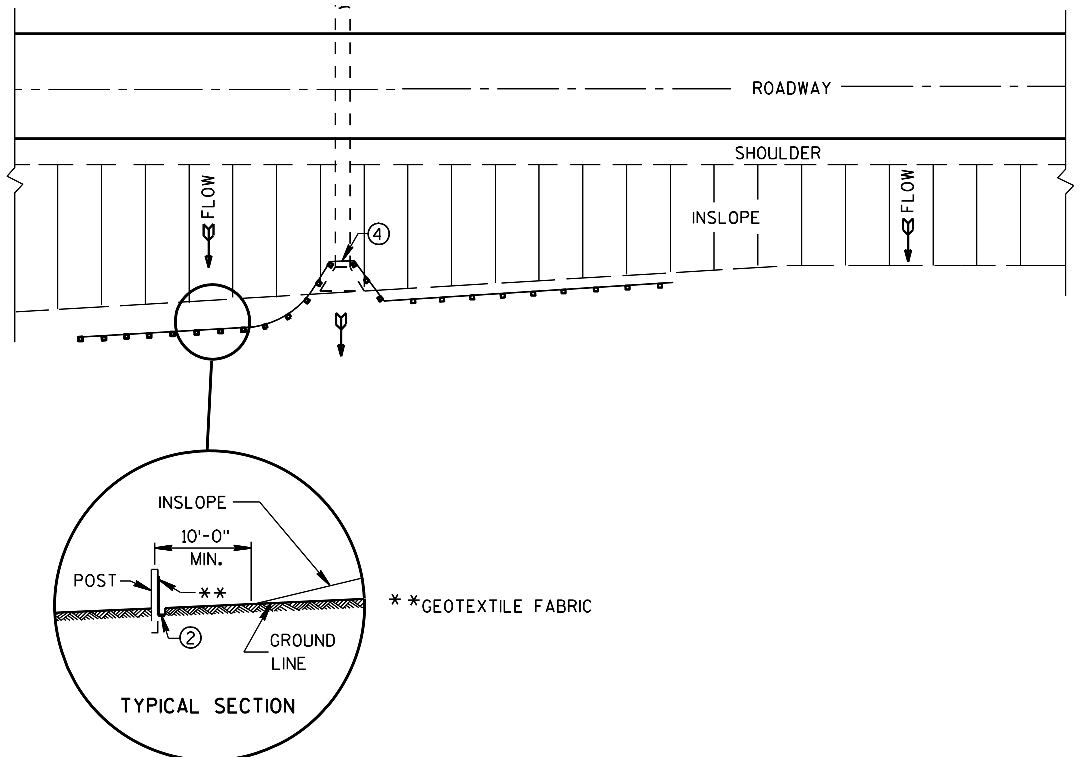
APPROVED
6/04/02 — DATE
/S/ Beth Cann... — CHIEF ROADWAY DEVELOP... ENGINEER
FHWA

6

GENERAL NOTES

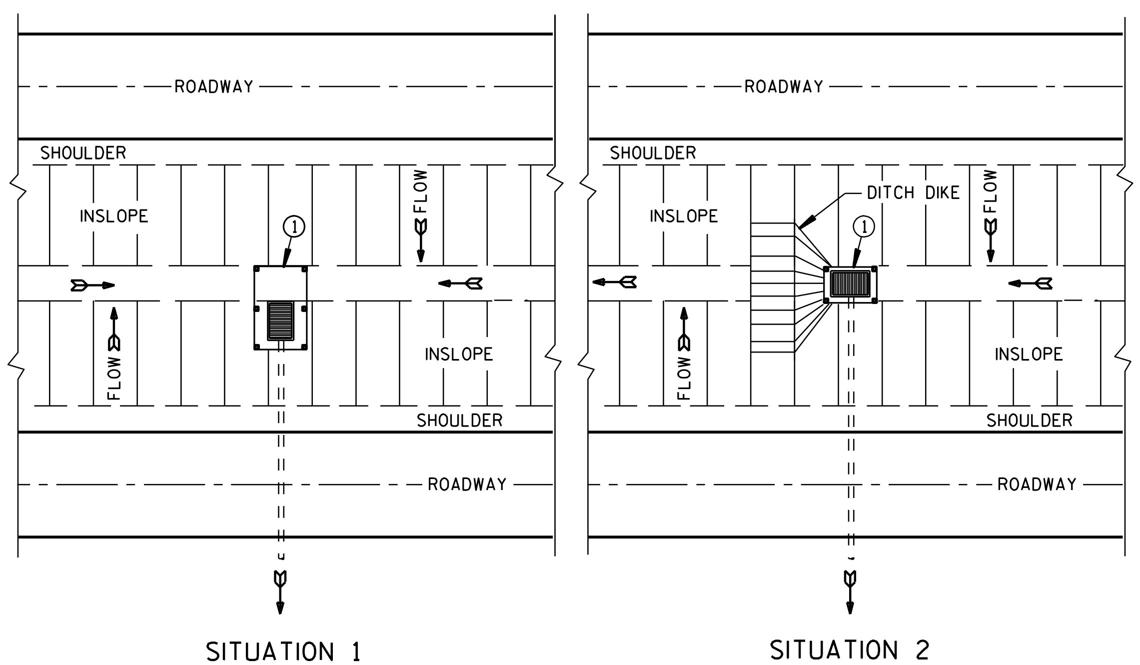
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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 1-1/8" X 1-1/8" 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.



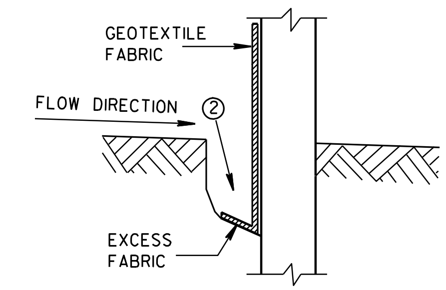
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE

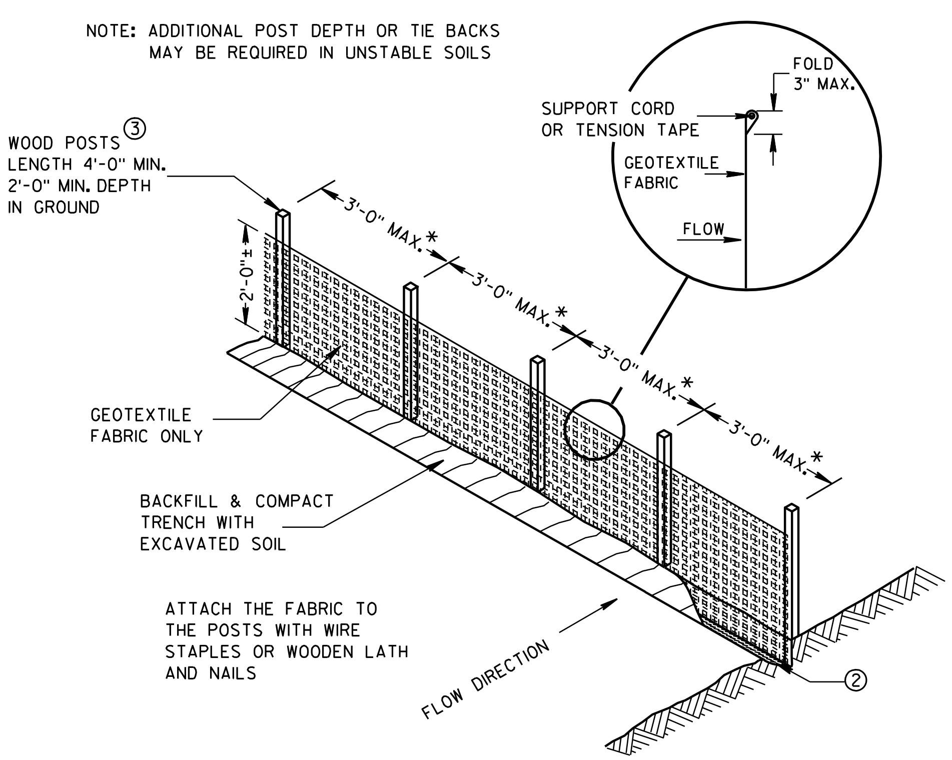


PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

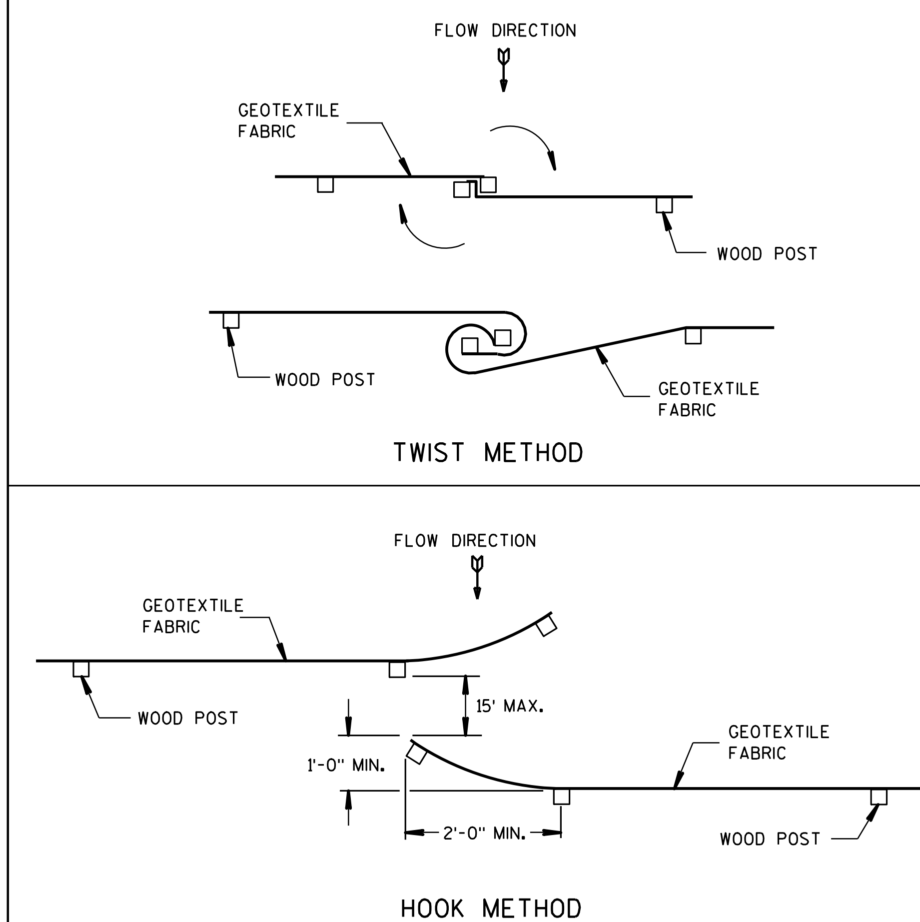


TRENCH DETAIL

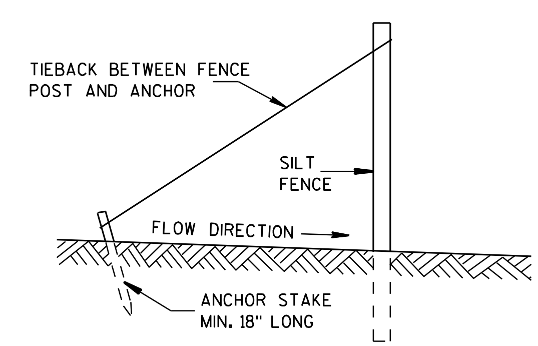


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



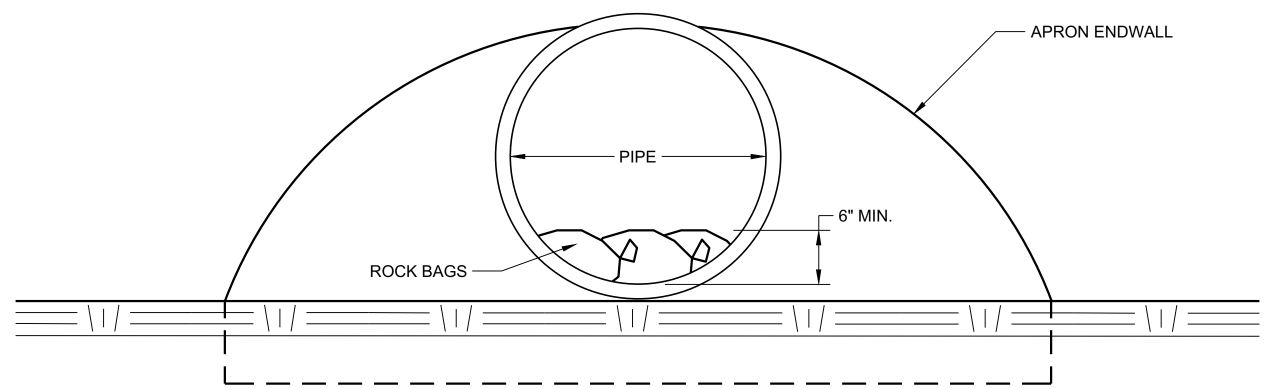
JOINING TWO LENGTHS OF SILT FENCE 5



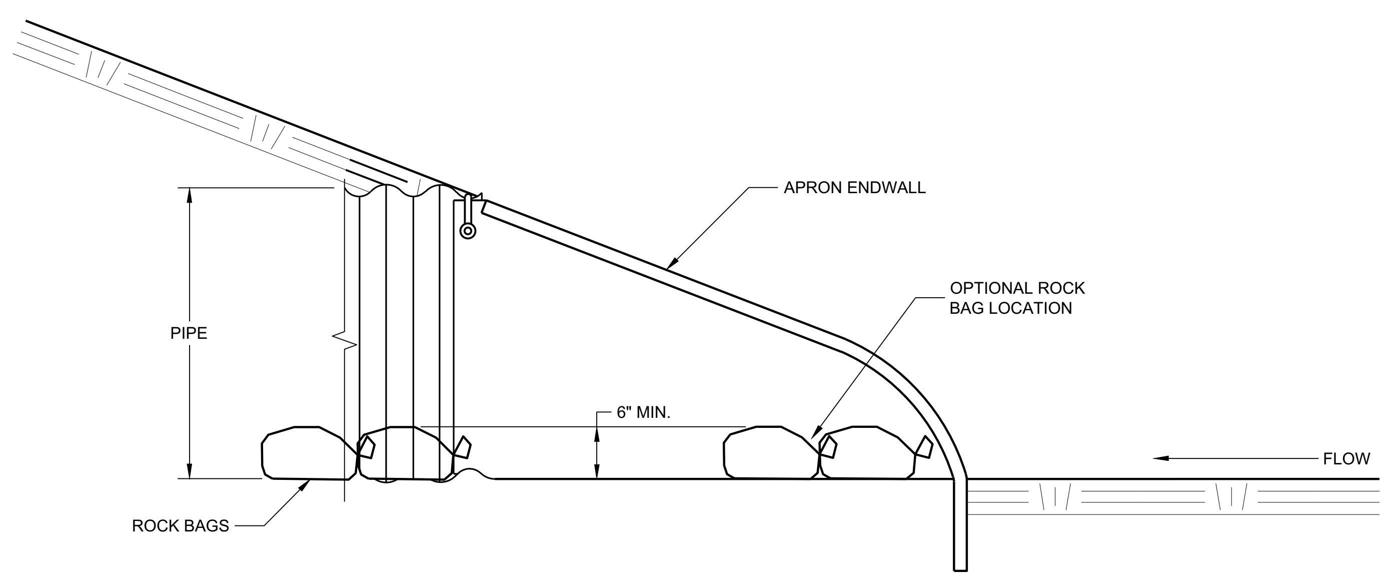
SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

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



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

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

METAL APRON ENDWALLS

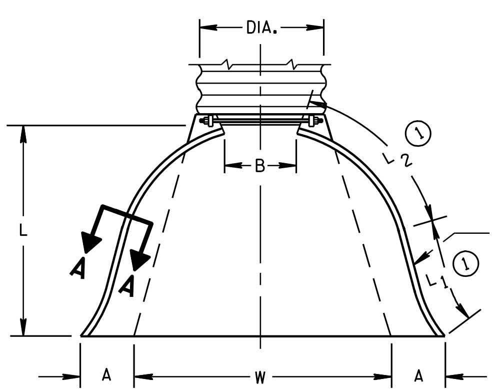
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

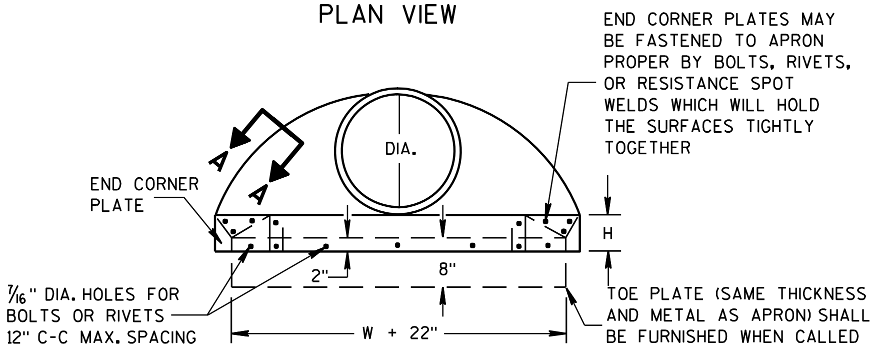
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 7/8	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

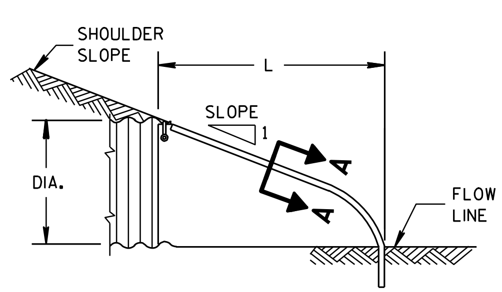
*MINIMUM
**MAXIMUM



PLAN VIEW

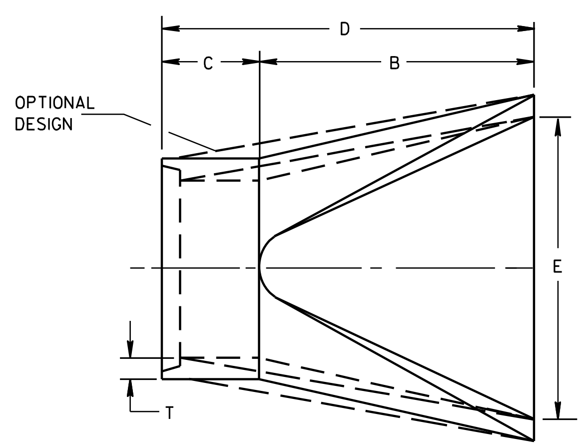


END VIEW

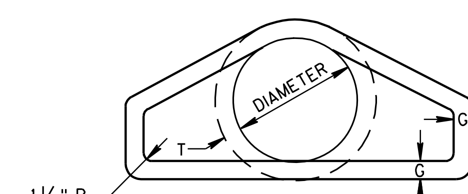


SIDE ELEVATION

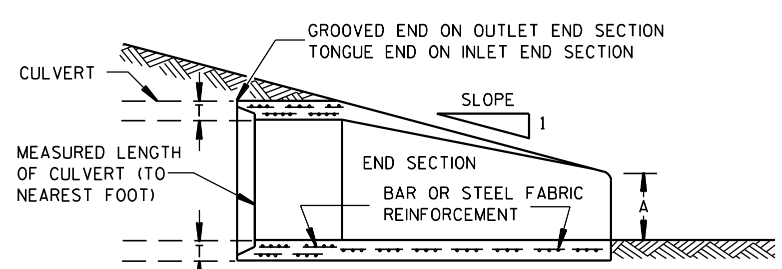
METAL ENDWALLS



PLAN

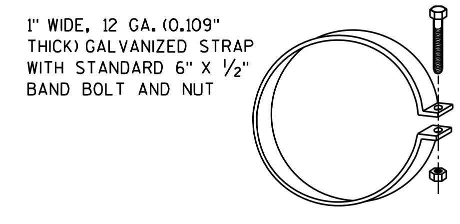


END VIEW



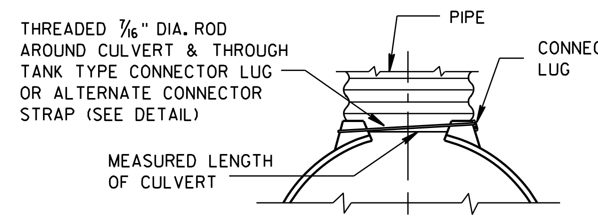
LONGITUDINAL SECTION

CONCRETE ENDWALLS

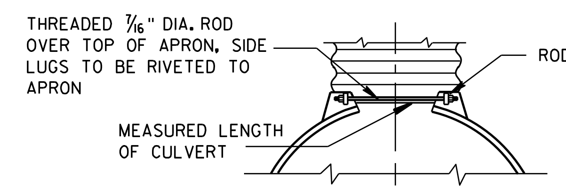


ALTERNATE FOR TYPE 1 CONNECTION

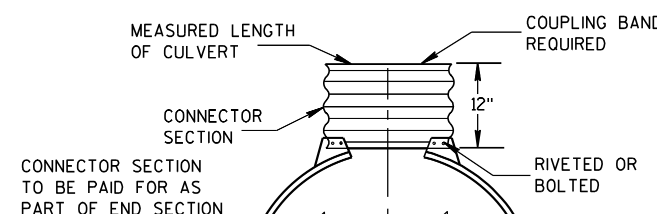
END SECTION CONNECTOR STRAP



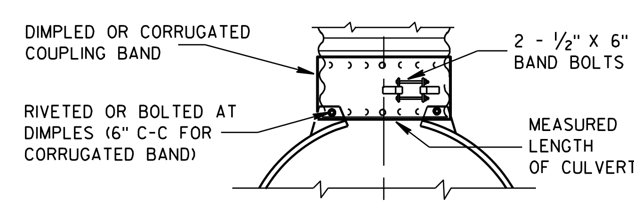
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

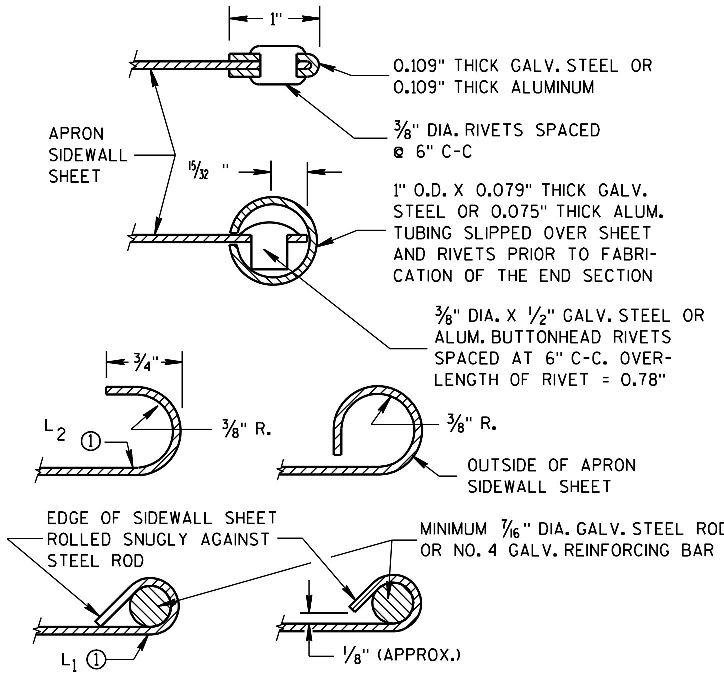
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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" 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 /S/ Rory L. Rhinesmith
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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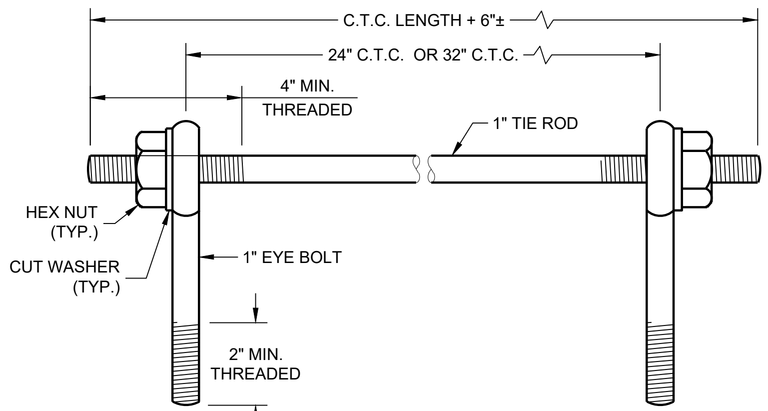
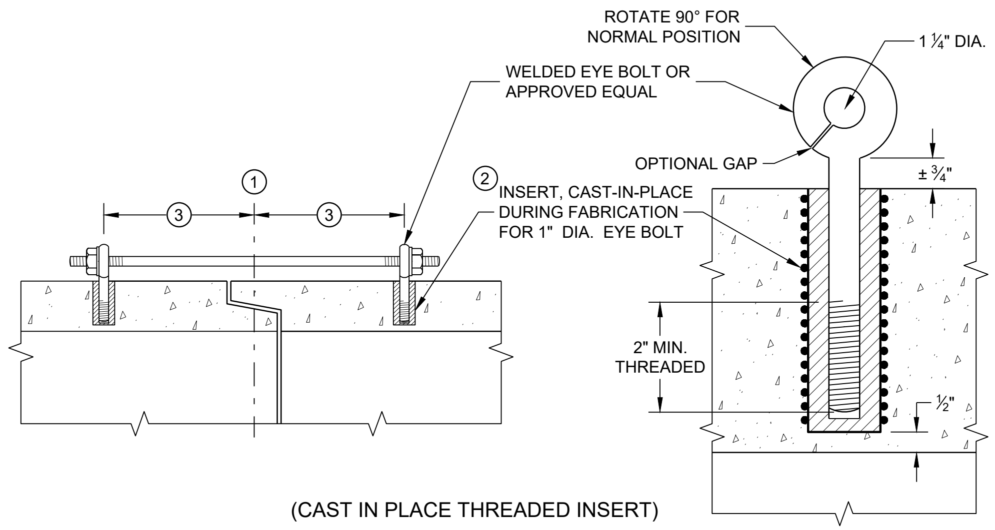
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

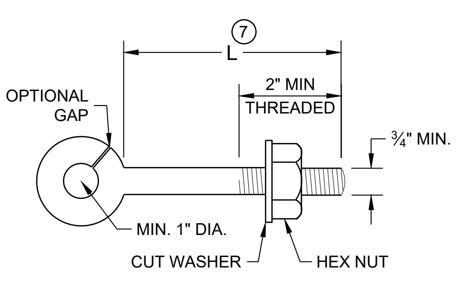
CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

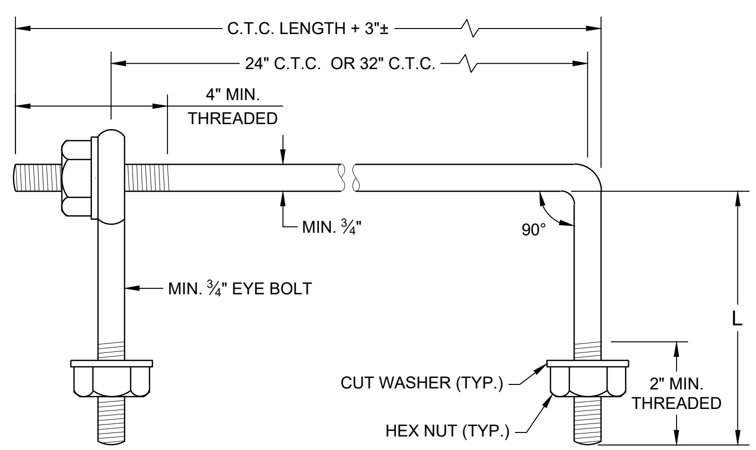
1. CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
2. THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
3. HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
4. BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
5. OPENING TO BE ROD DIAMETER PLUS 1 INCH.
6. LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.
7. EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

6

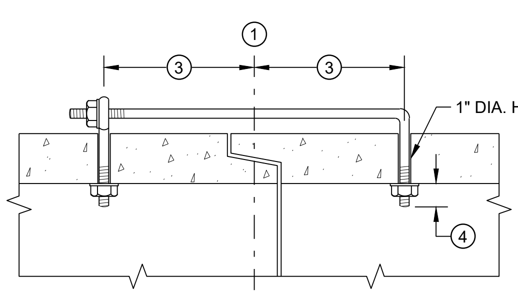


EYE BOLT 7

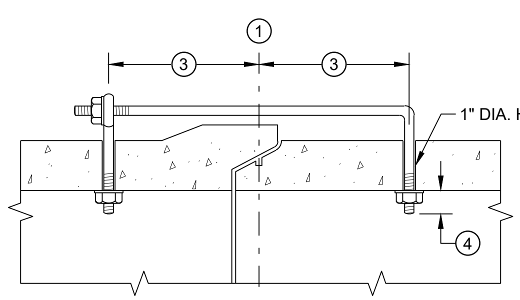
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

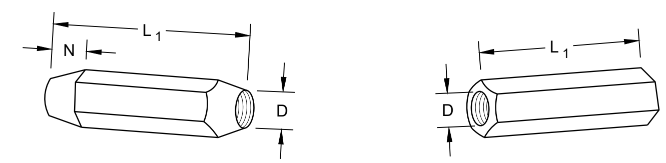
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

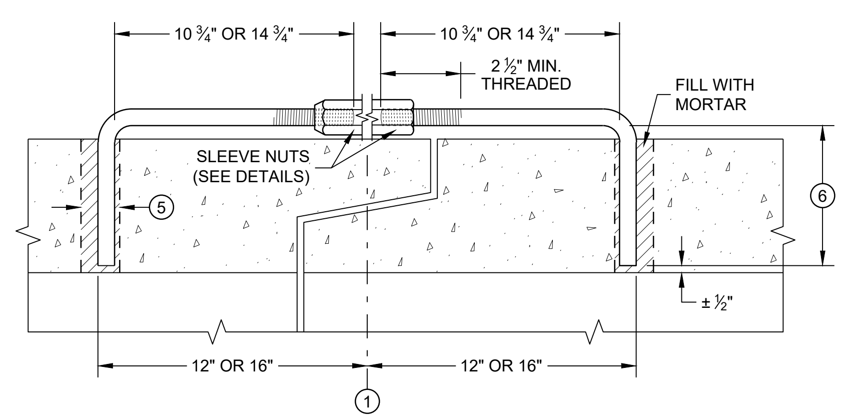
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 $\frac{7}{16}$

DIMENSIONS SHOWN ARE IN INCHES



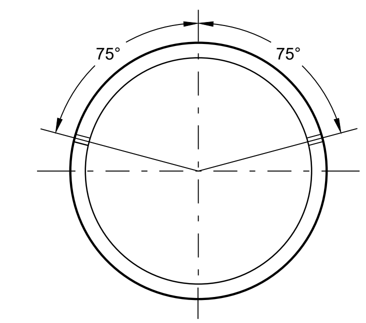
RIGHT AND LEFT THREADS

SLEEVE NUTS



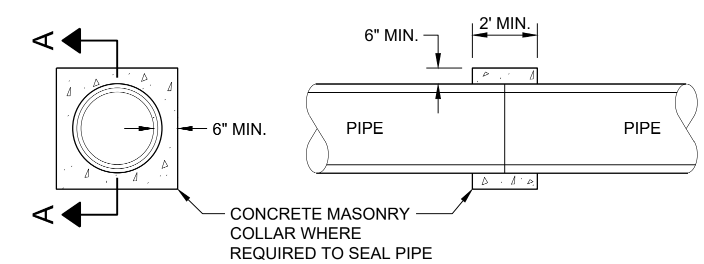
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

6

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

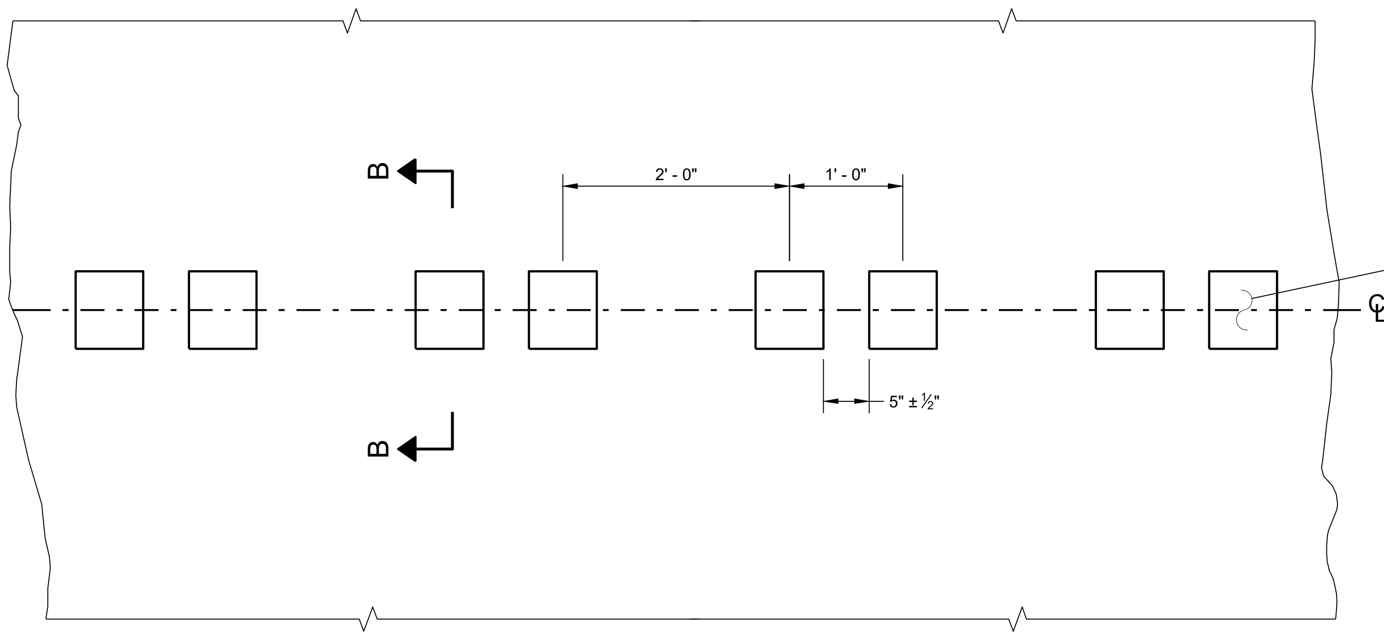
SDD 08F04 - 08

SDD 08F04 - 08

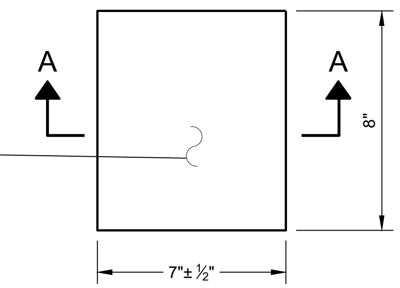
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A11 SHEETS "d" AND "e".

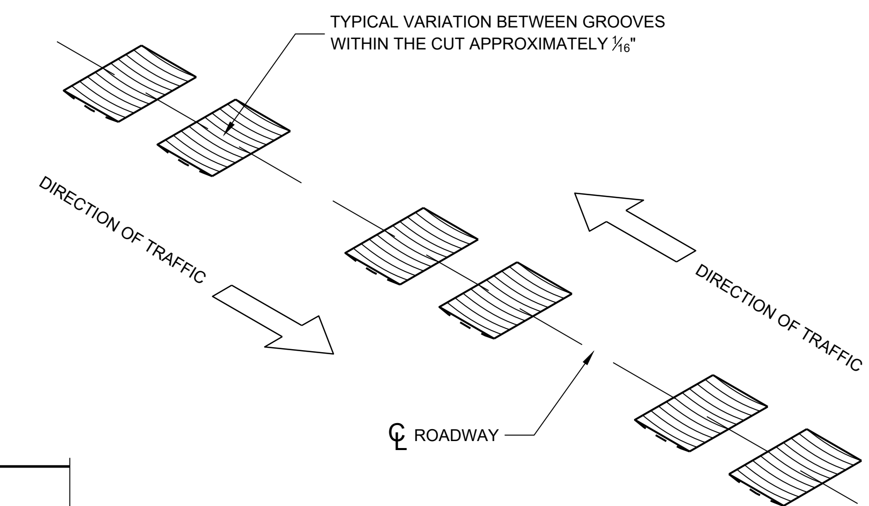
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



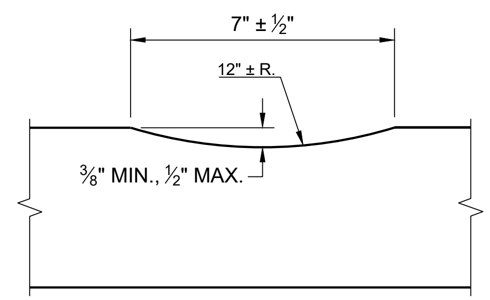
PLAN DETAIL VIEW



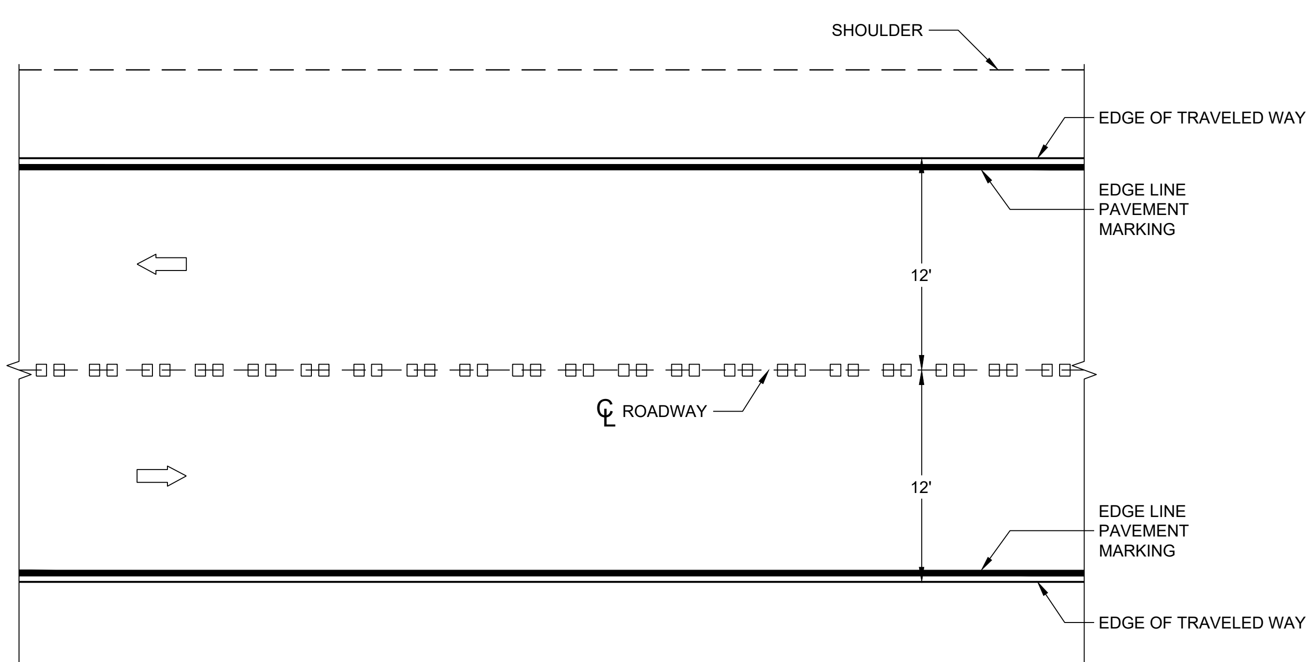
PLAN VIEW (SINGLE GROOVE)



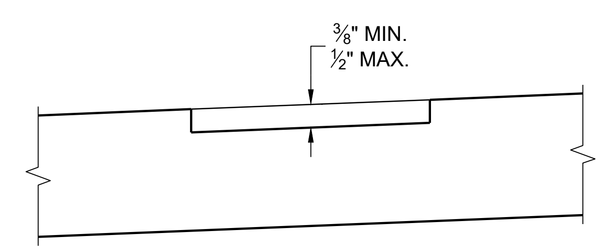
ISOMETRIC



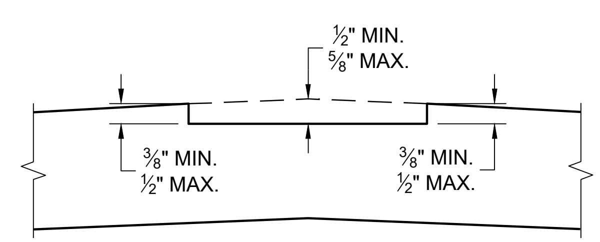
SECTION A - A



PLAN VIEW



SECTION B - B SUPERELEVATED ROADWAY



SECTION B - B CROWNED ROADWAY

CENTERLINE RUMBLE STRIPS - ASPHALT

6

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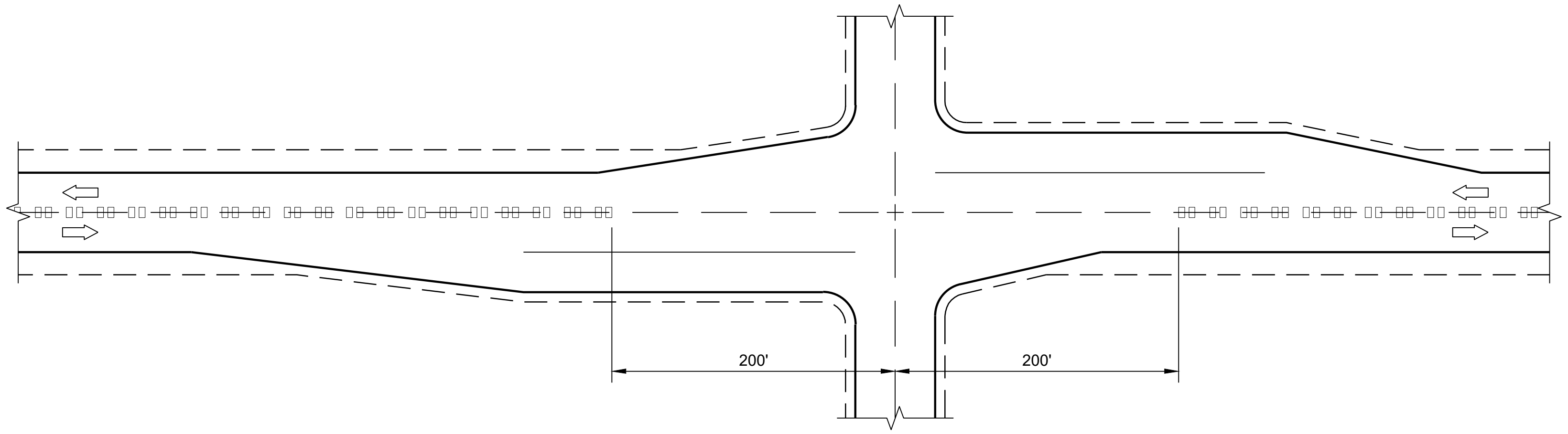
SDD 13A11 - 04a

SDD 13A11 - 04a

CENTERLINE RUMBLE STRIPS - ASPHALT

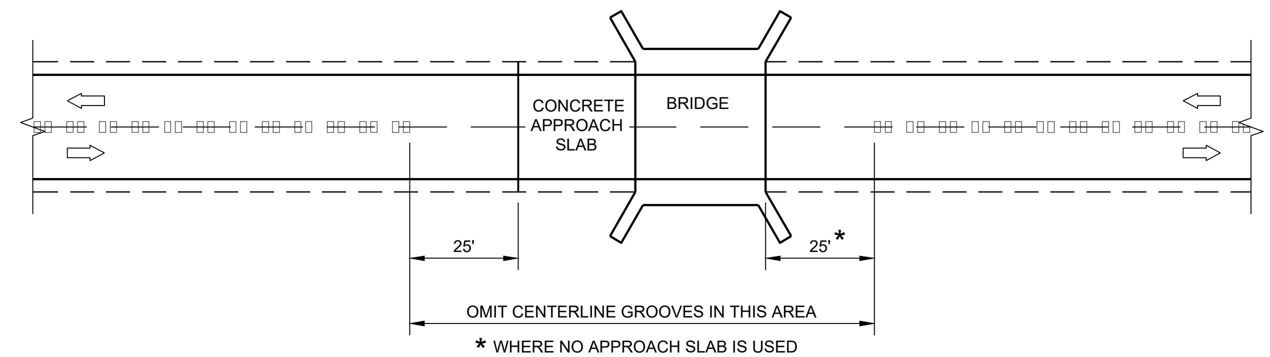
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATI



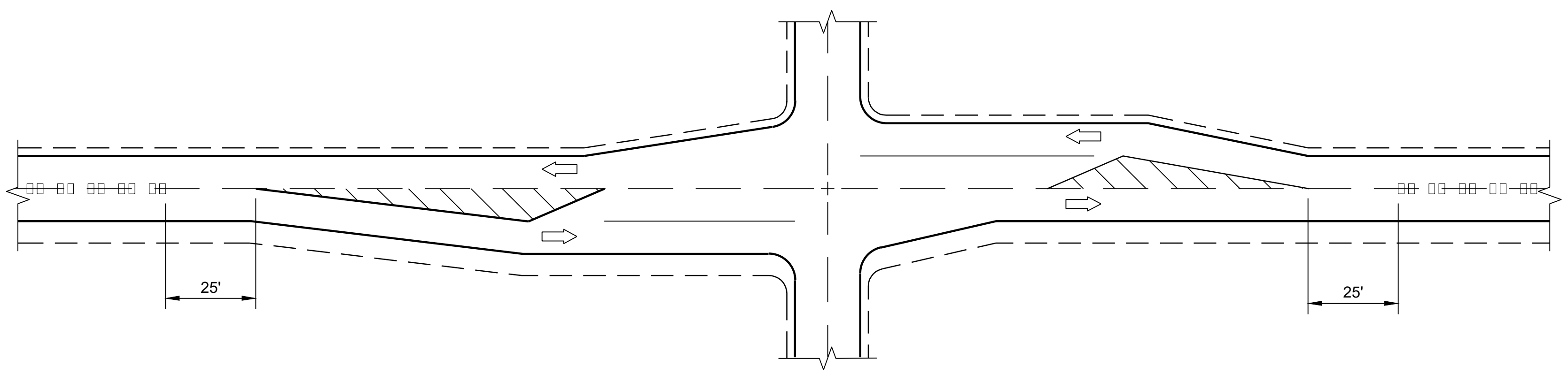
CENTERLINE GROOVES AT INTERSECTIONS

GENERAL NOTES

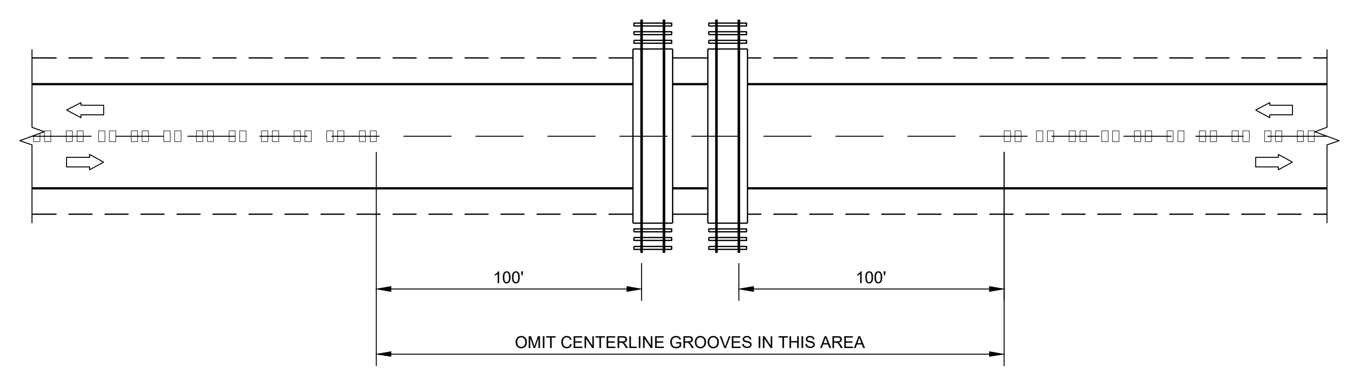
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



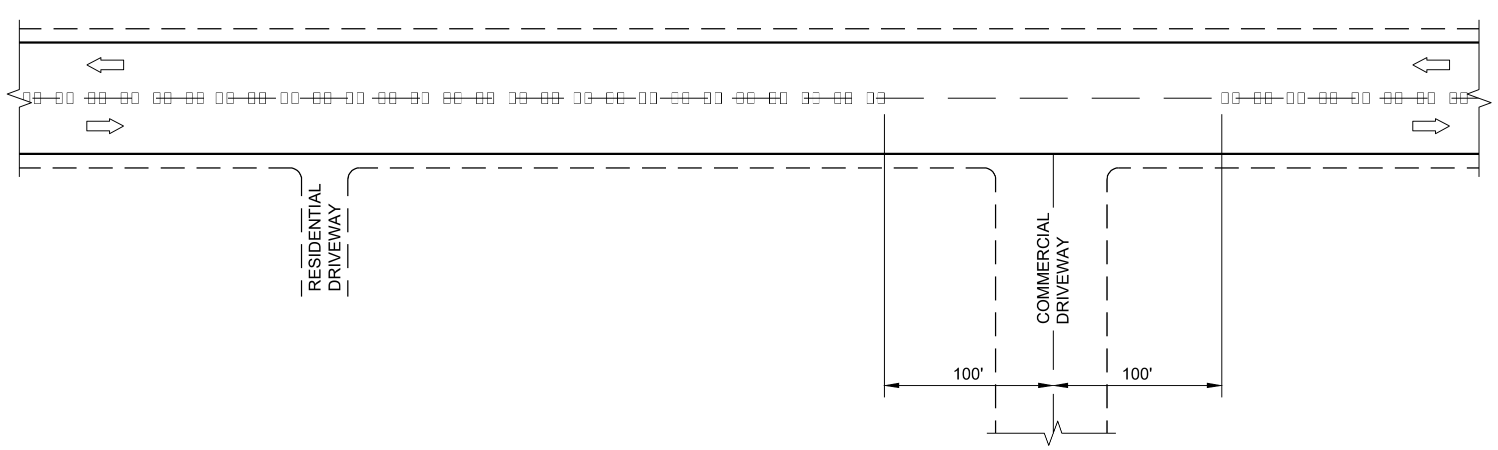
CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)



CENTERLINE GROOVES AT RAILROADS



CENTERLINE GROOVES AT DRIVEWAYS (1)

6

CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS

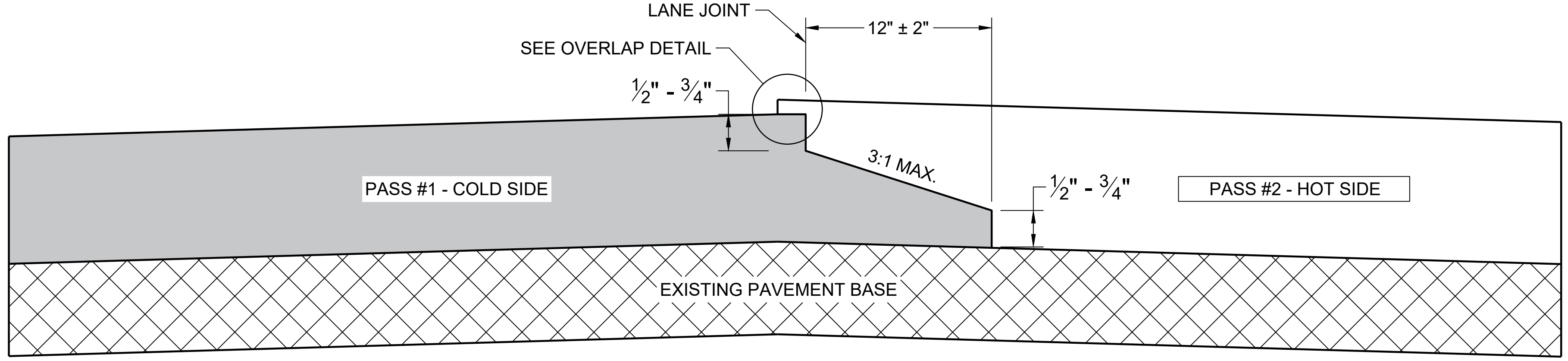
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

SDD 13A11 - 04d

6



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT

GENERAL NOTES

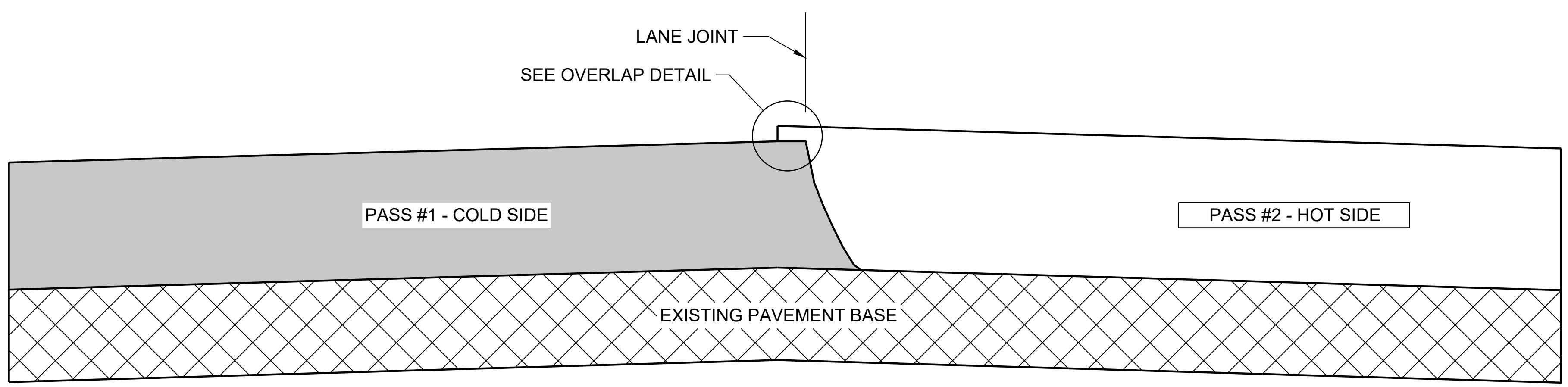
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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.)

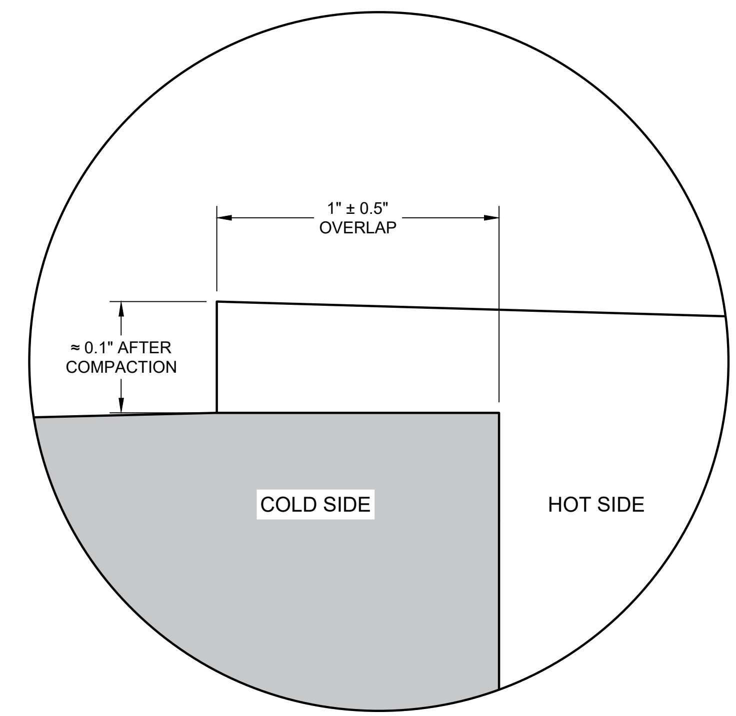
ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

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.

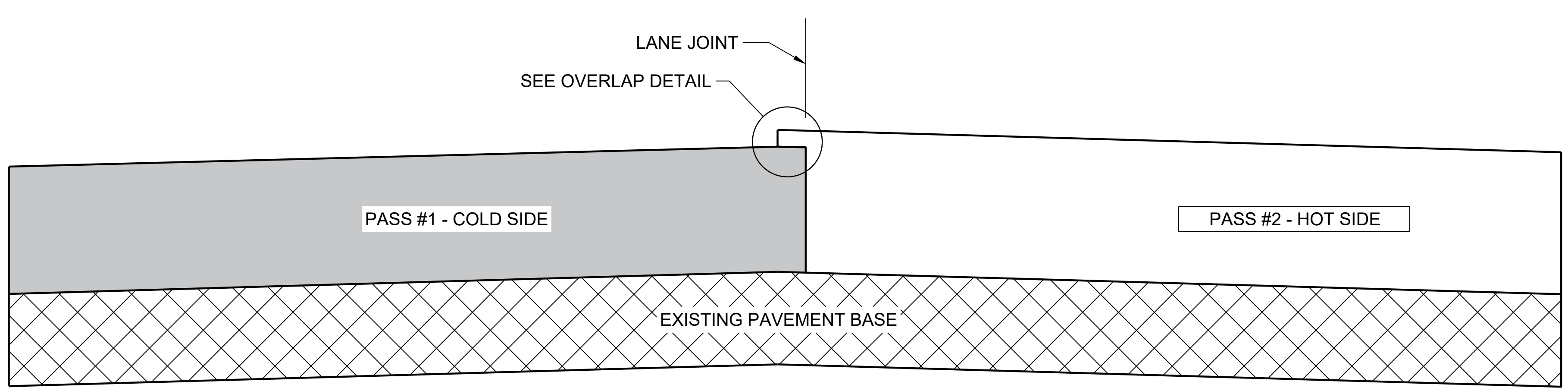
USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



OVERLAP DETAIL (TYPICAL)



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

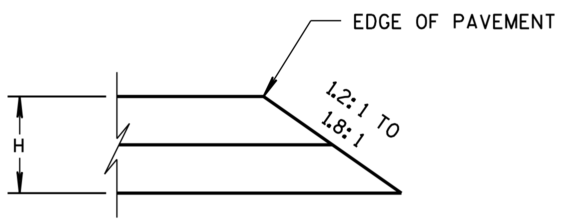
APPROVED
November 2020 /S/ Steven Hefel
DATE HMA PAVEMENT ENGIN: 87
FHWA

SDD 13C19 - 03

6

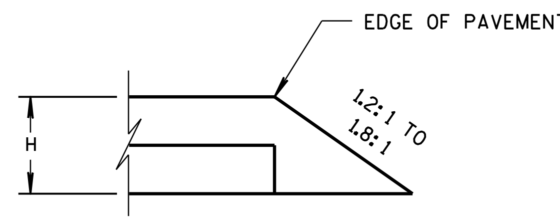
SDD 13C19 - 03

6



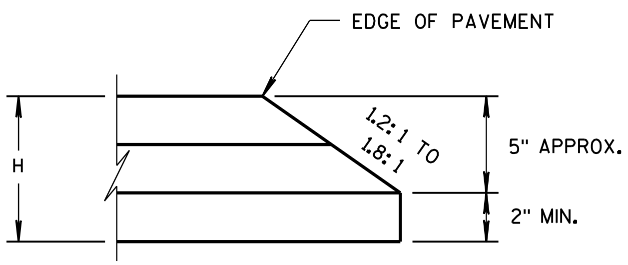
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



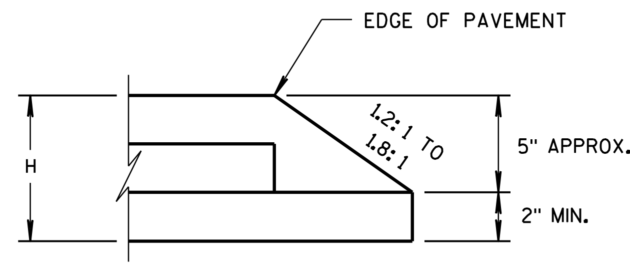
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

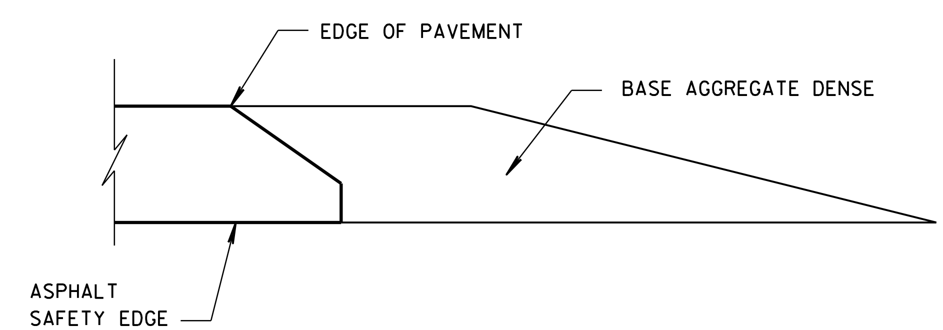
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE$_{SM}$

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

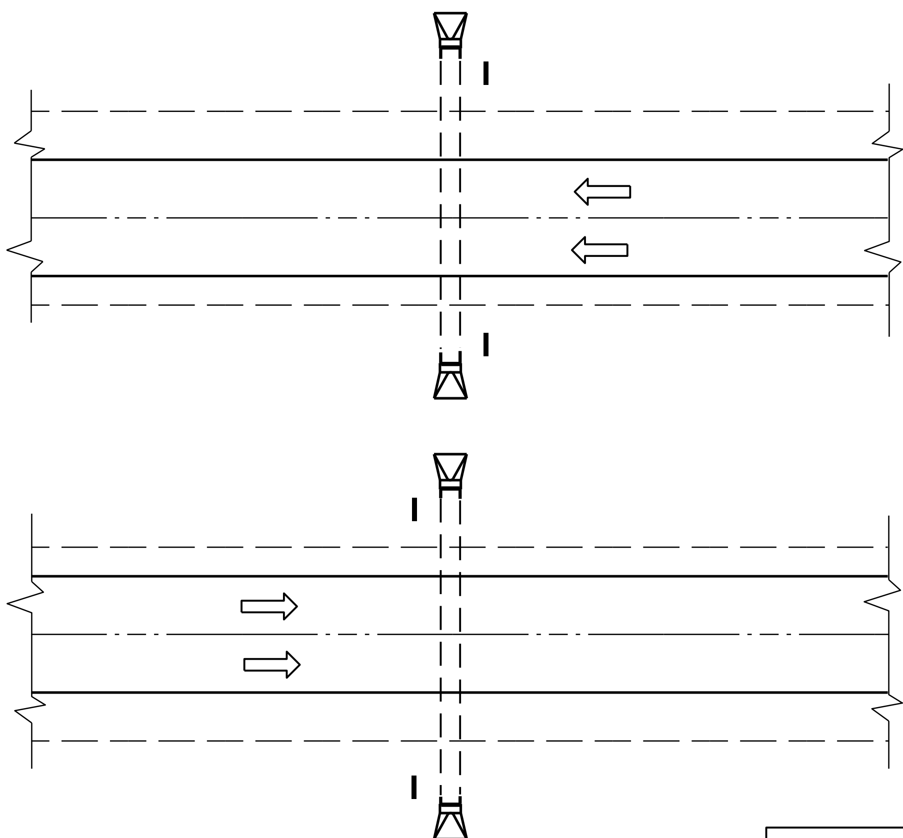
APPROVED
11/30/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 29-1

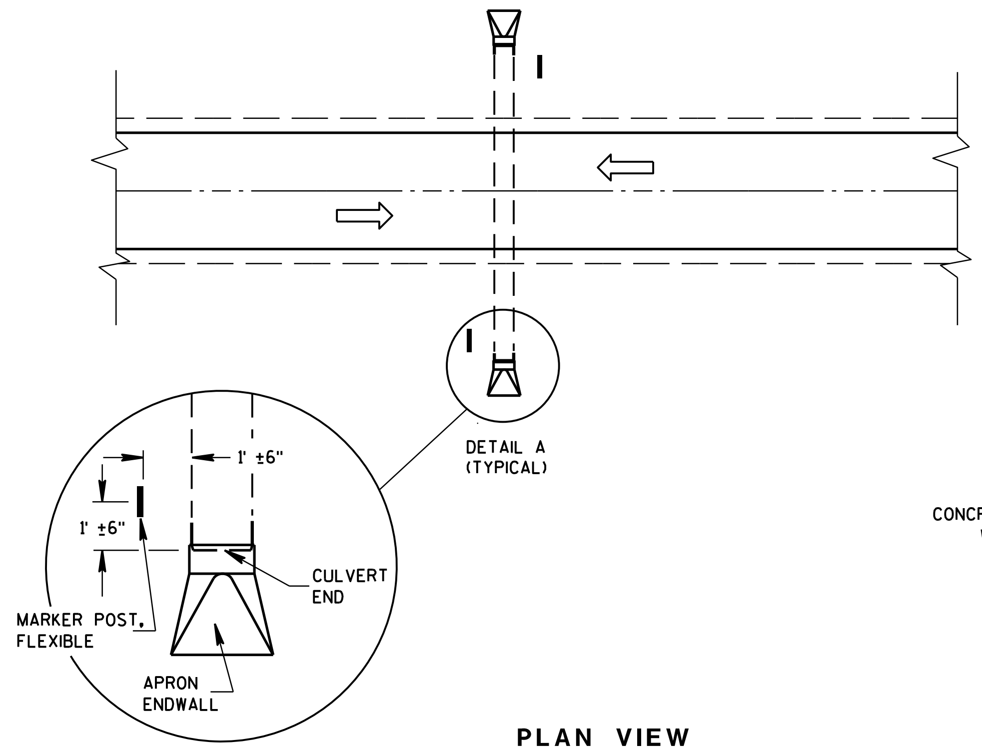
GENERAL NOTES

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.



PLAN VIEW

DIVIDED HIGHWAY

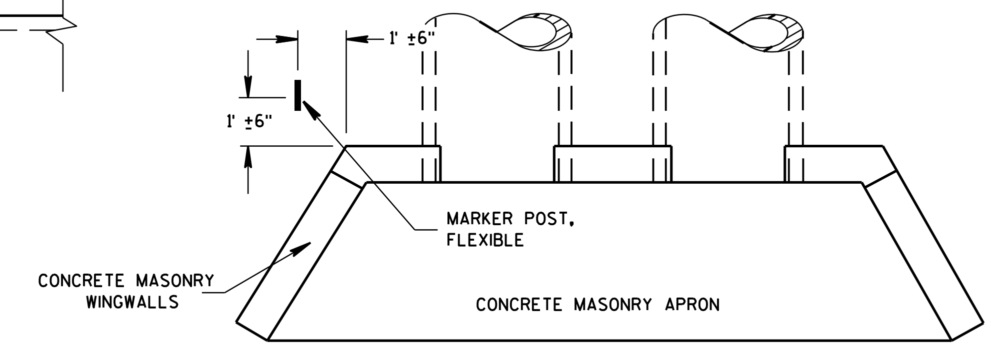


DETAIL A
(TYPICAL)

PLAN VIEW

UNDIVIDED HIGHWAY

I	MARKER POST, FLEXIBLE
⇨	DIRECTION OF TRAFFIC FLOW



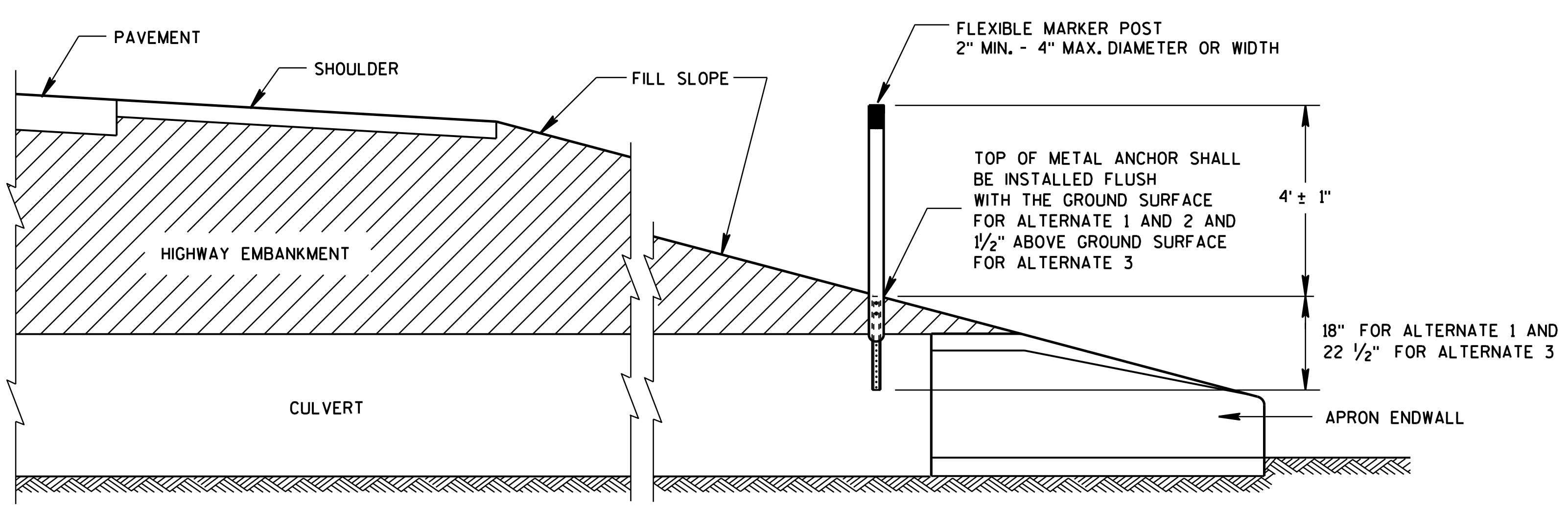
PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION

6

6



CROSS SECTION

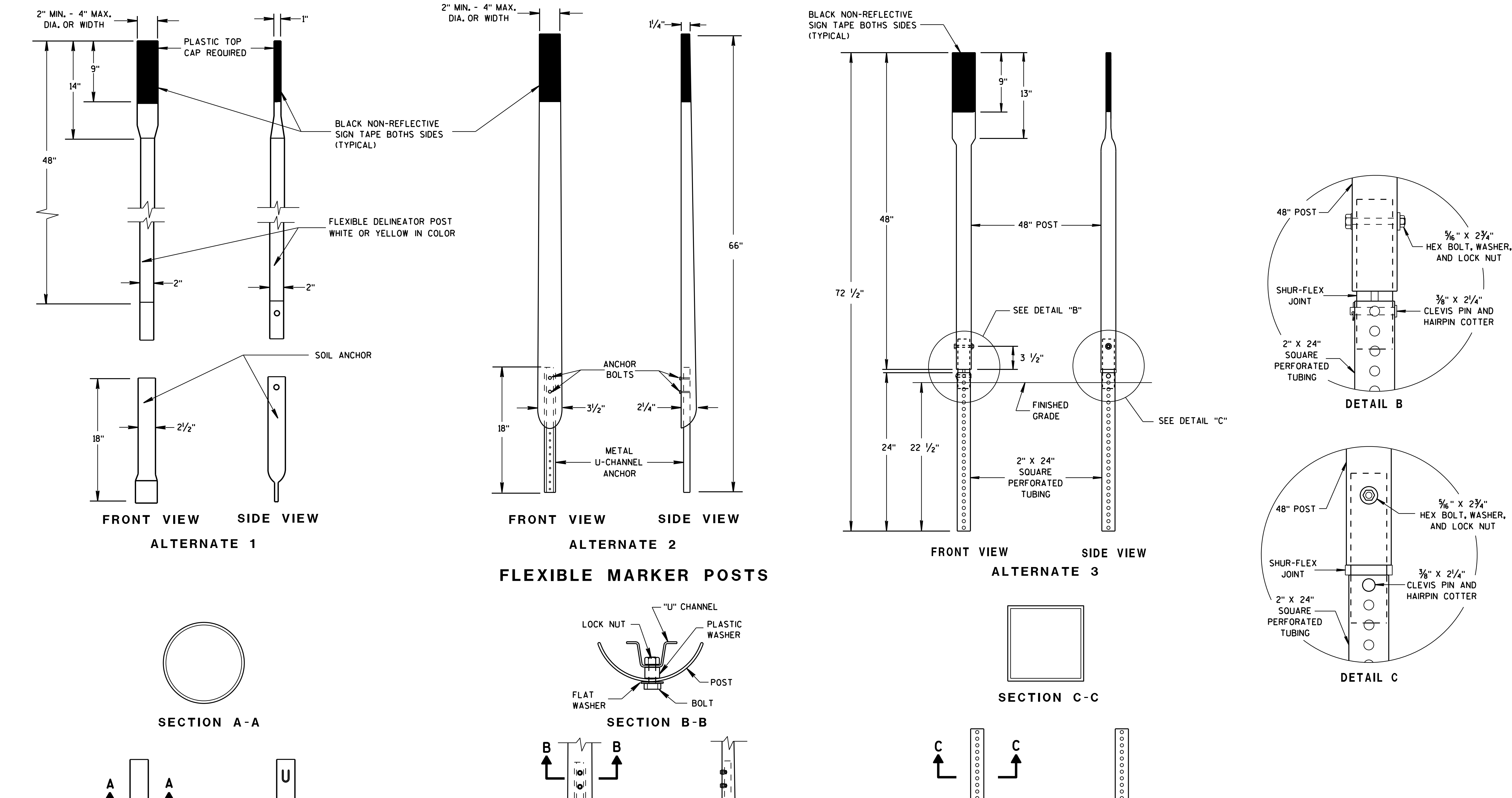
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 15 A 3-2a

S.D.D. 15 A 3-2a



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FLEXIBLE MARKER POST
FOR CULVERT END

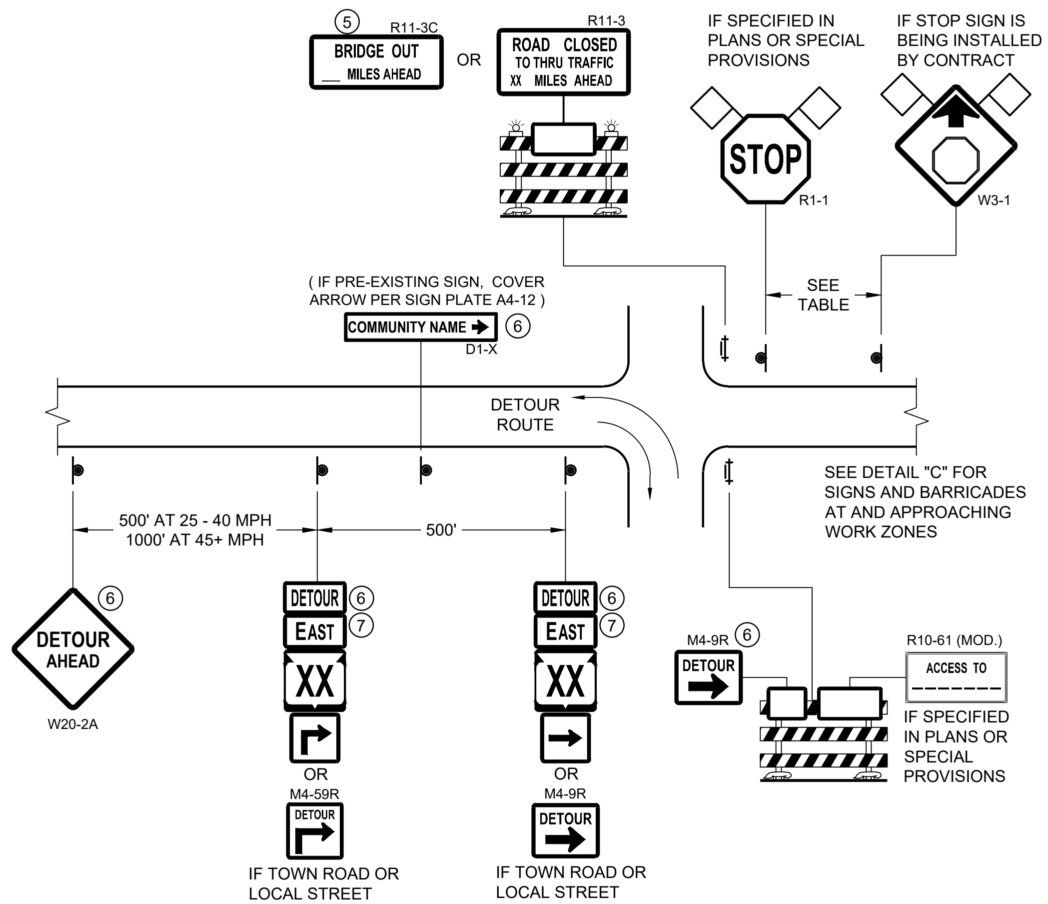
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
IGN
FHWA

S.D.D. 15 A 3-2b

S.D.D. 15 A 3-2b

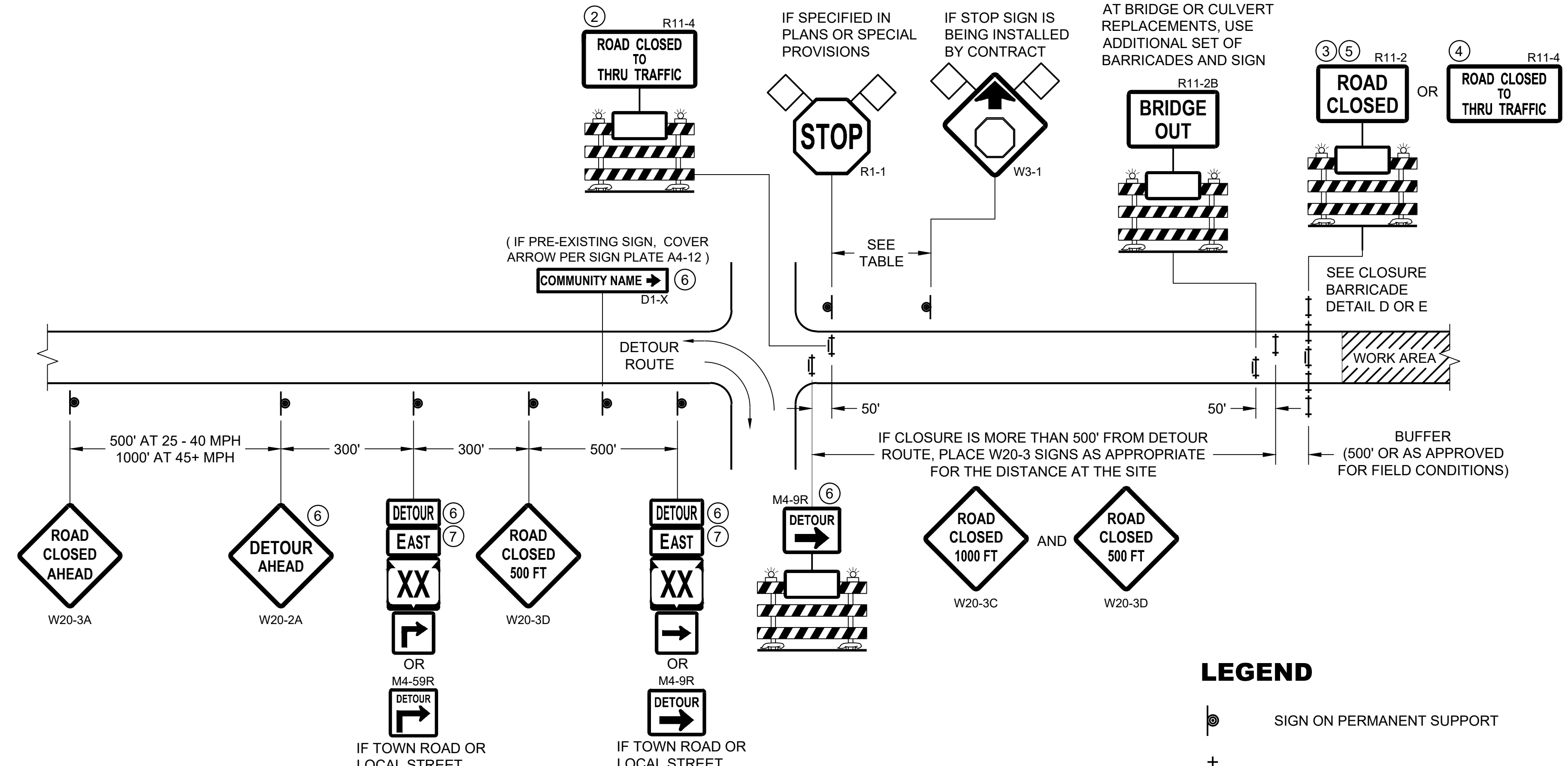
6



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

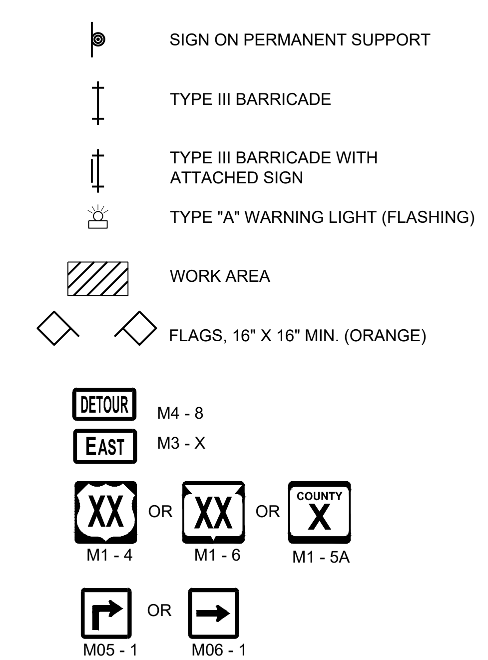


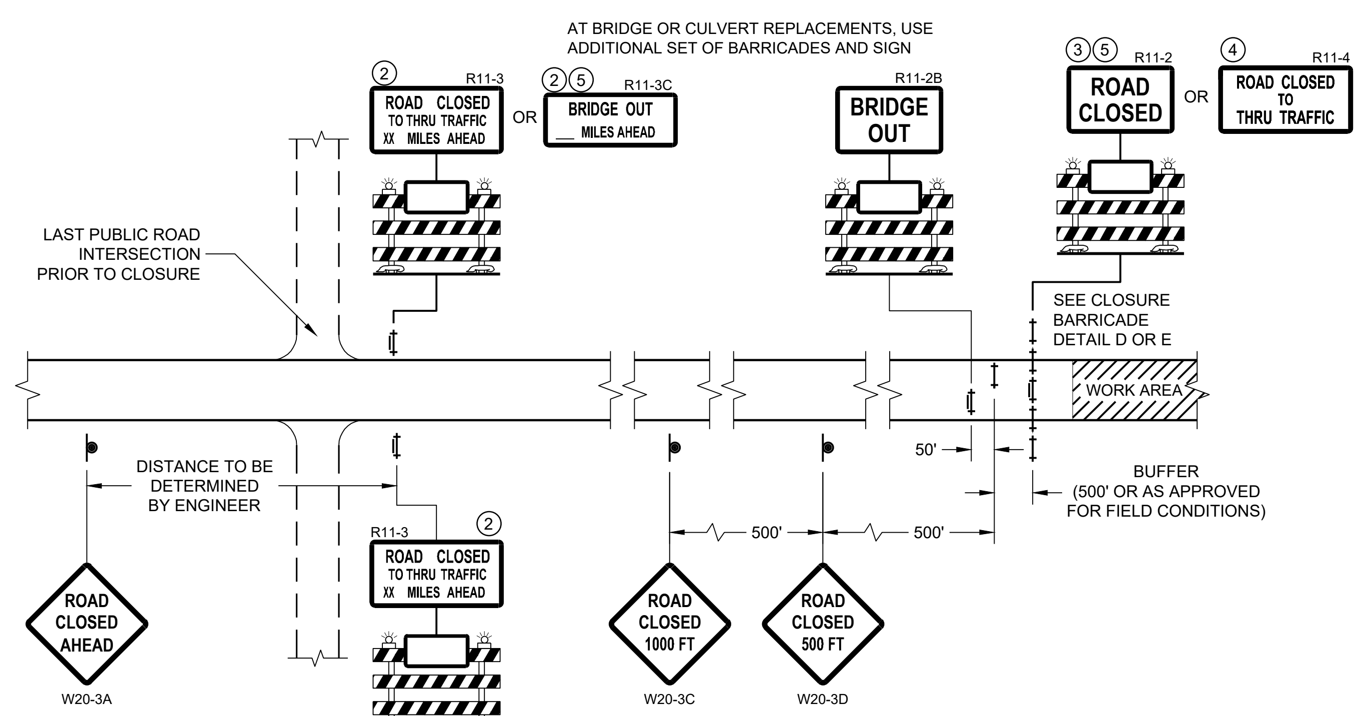
DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND





DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES 1 THROUGH 7

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

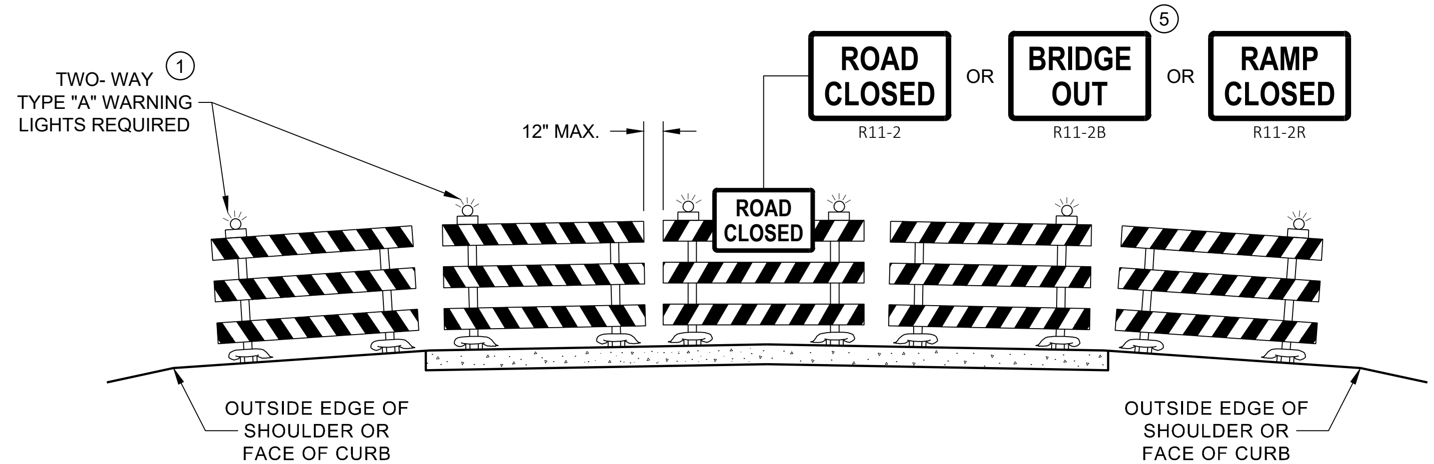
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

SDD 15C02 - 09a

6

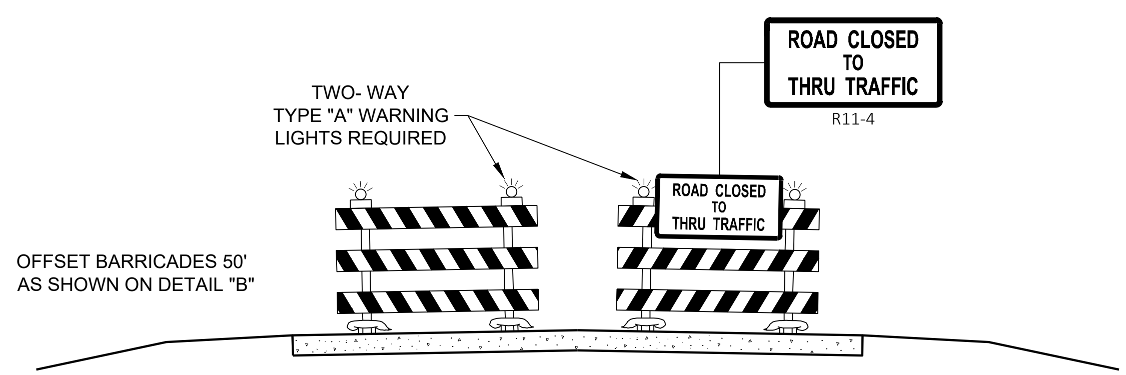
SDD 15C02 - 09a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

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

1. TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
2. THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
3. FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
4. FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
5. FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
6. INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
7. "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

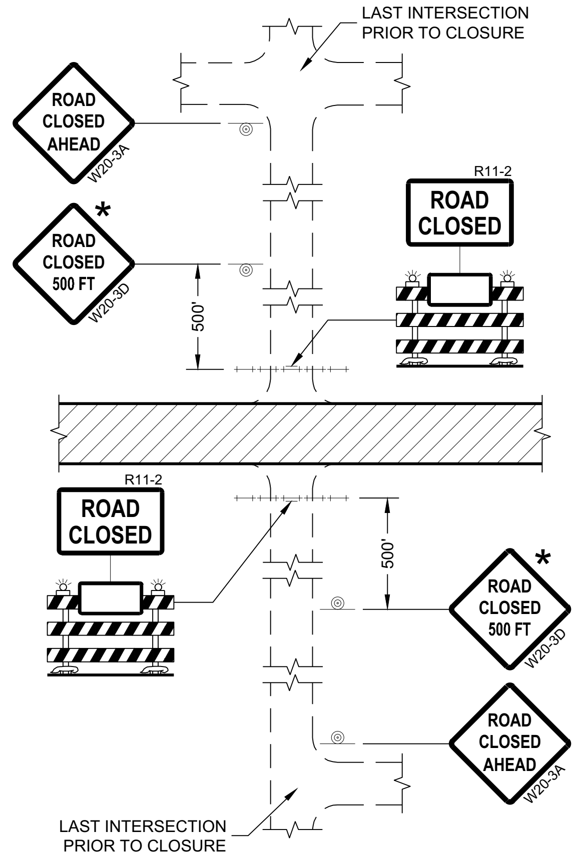
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

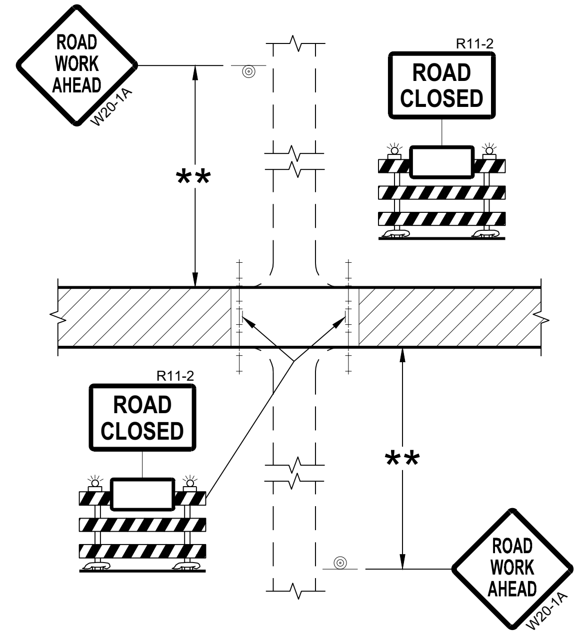
APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

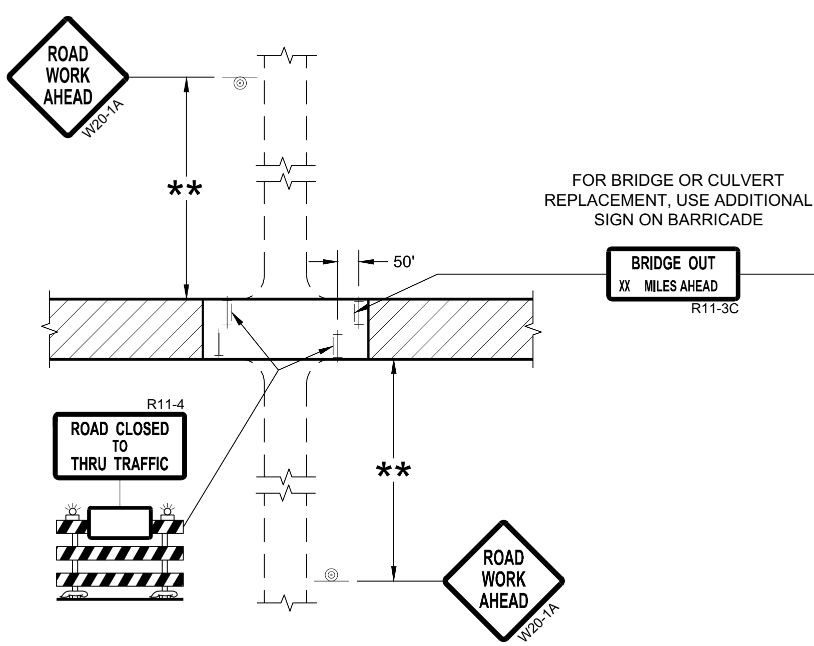
SDD 15C02 - 09b



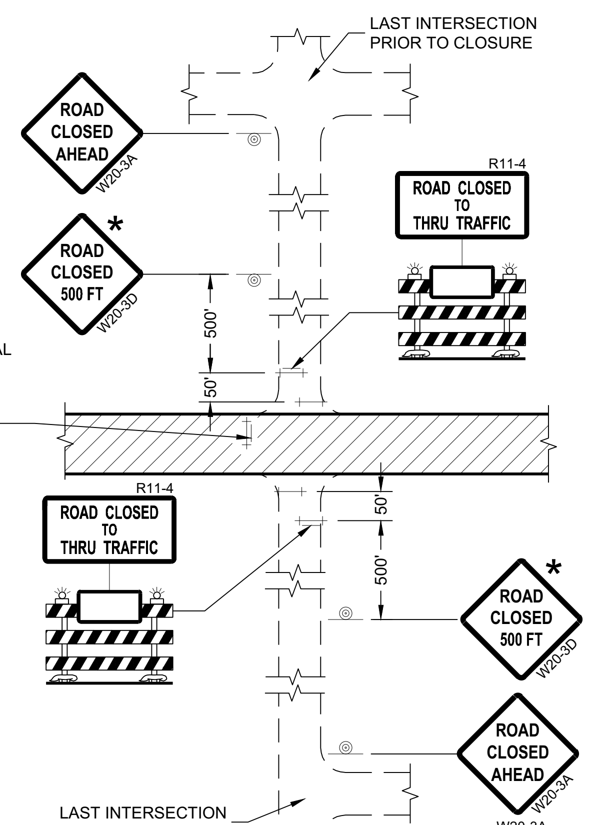
DETAIL 1
(NO ACCESS TO PROJECT)



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

6

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BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

SDD 15C03 - 05

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.

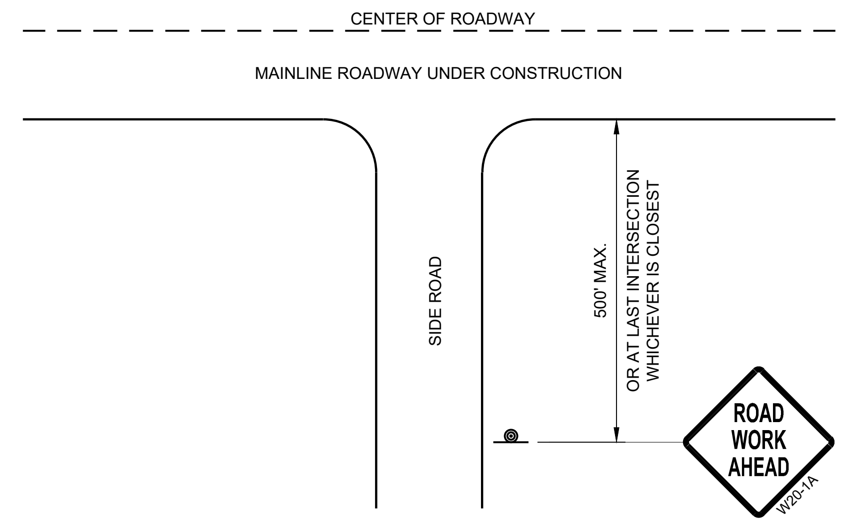
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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.



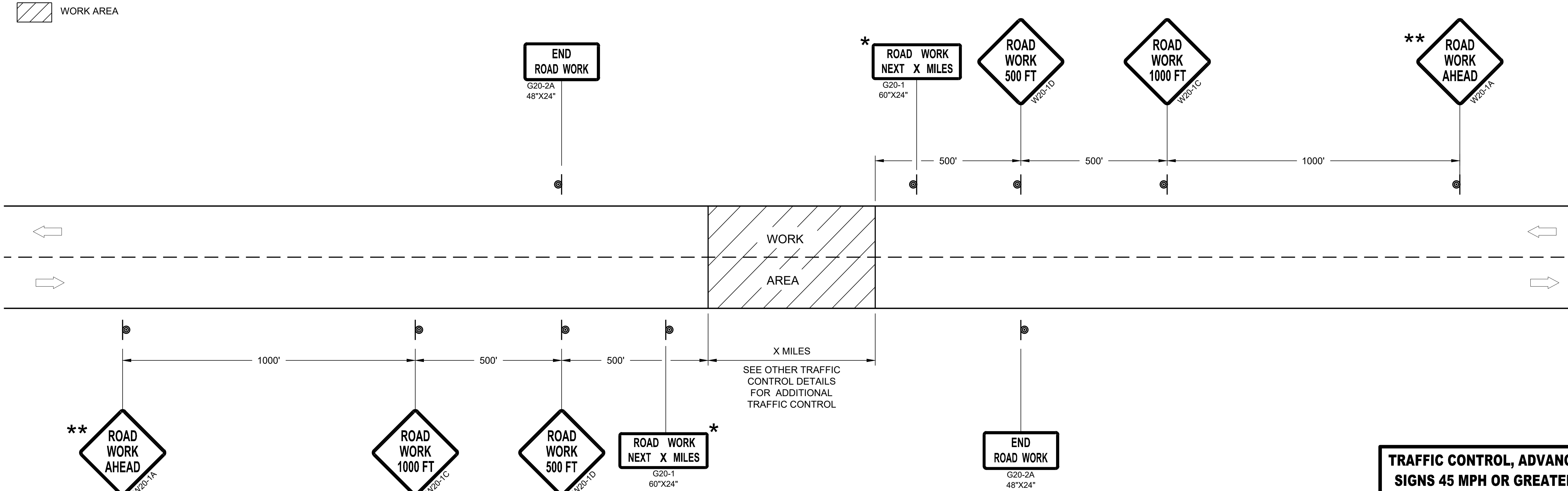
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

6

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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 ENGINEER
FHWA

SDD 15C04 - 05

GENERAL NOTES

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

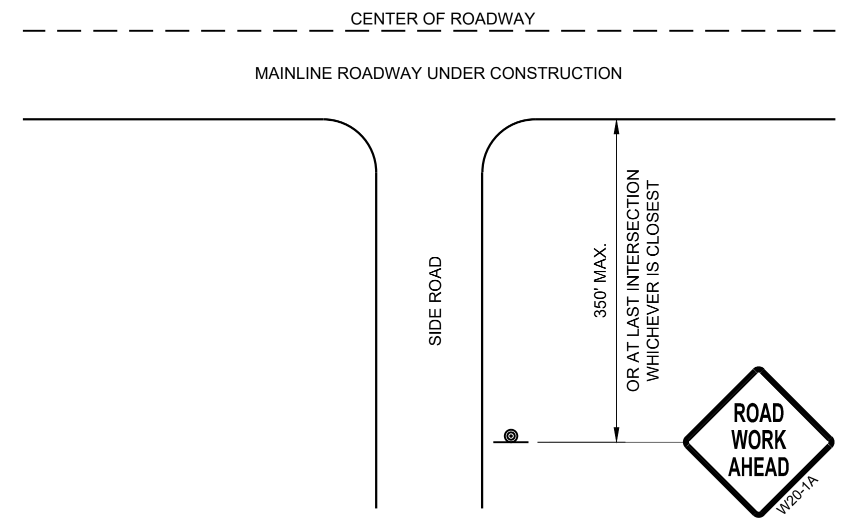
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.



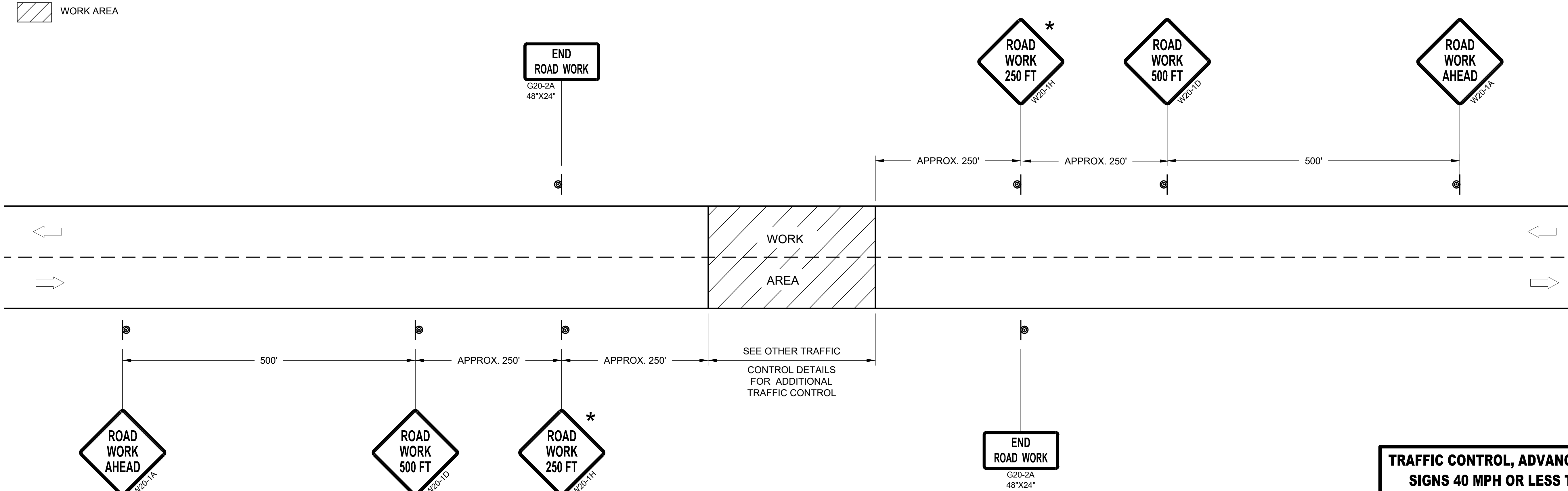
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

6

SDD 15C05 - 05

GENERAL NOTES

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

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

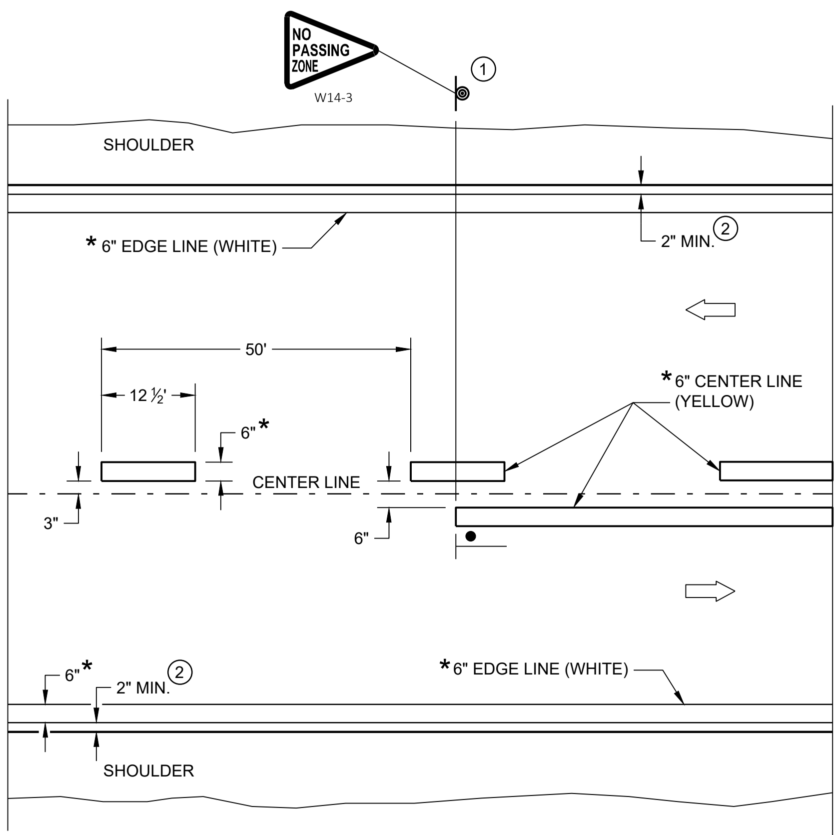
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

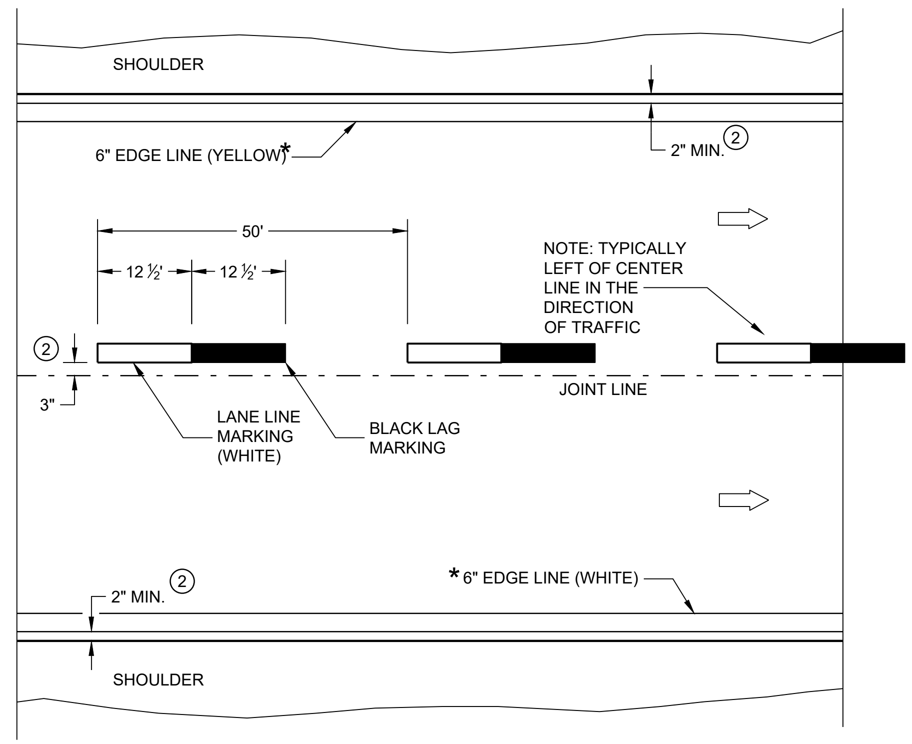
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

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PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

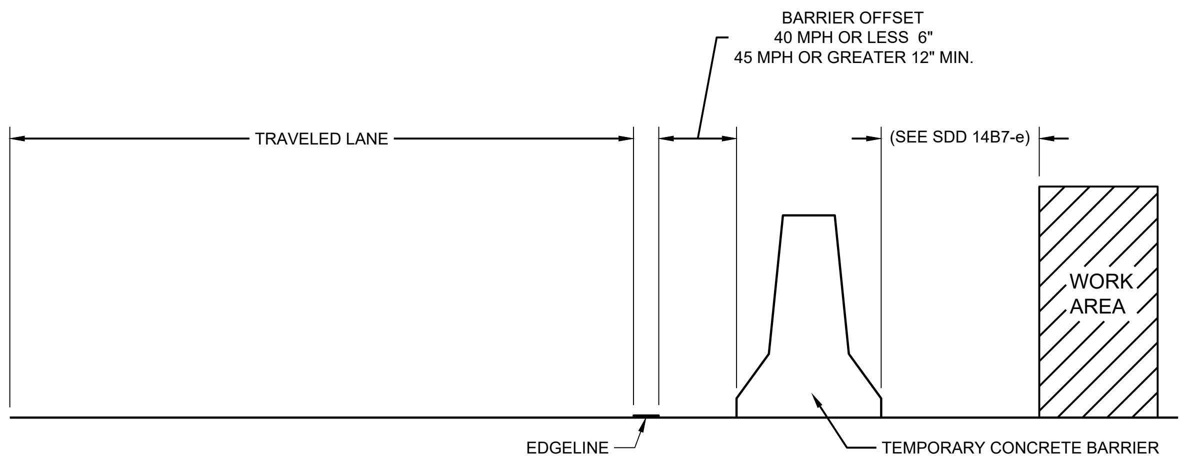
May 2023 — DATE

/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

FHWA

SDD 15C08-23a

SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

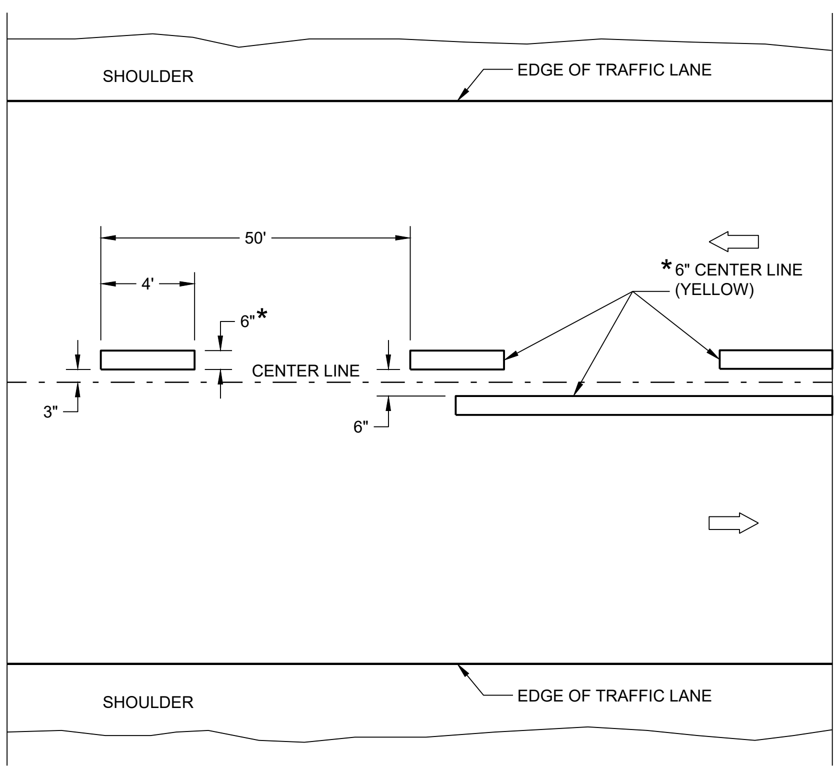
GENERAL NOTES

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

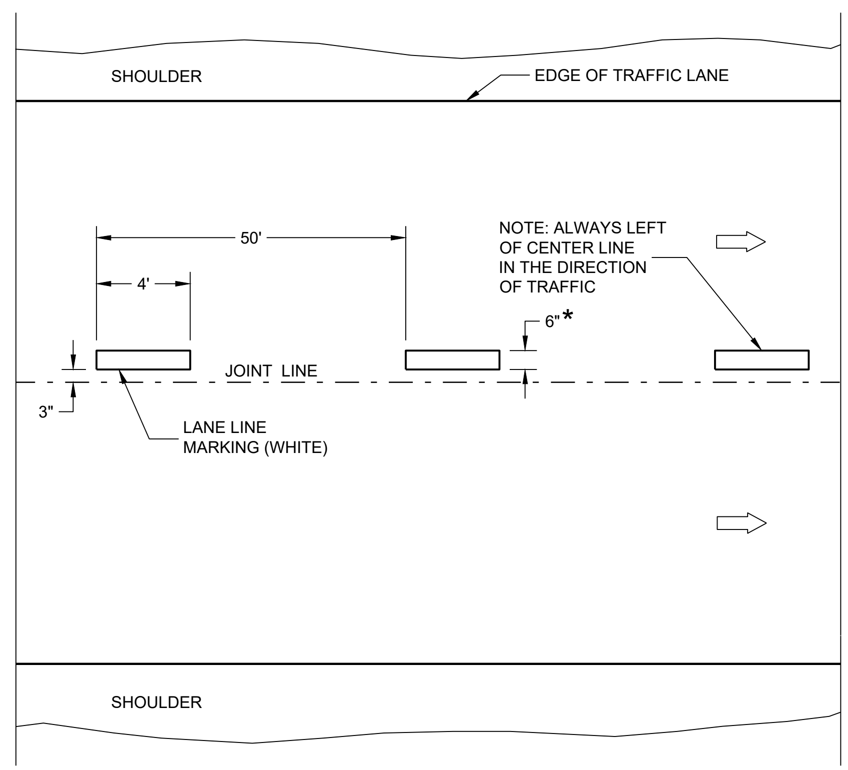
LEGEND

⇨ DIRECTION OF TRAFFIC

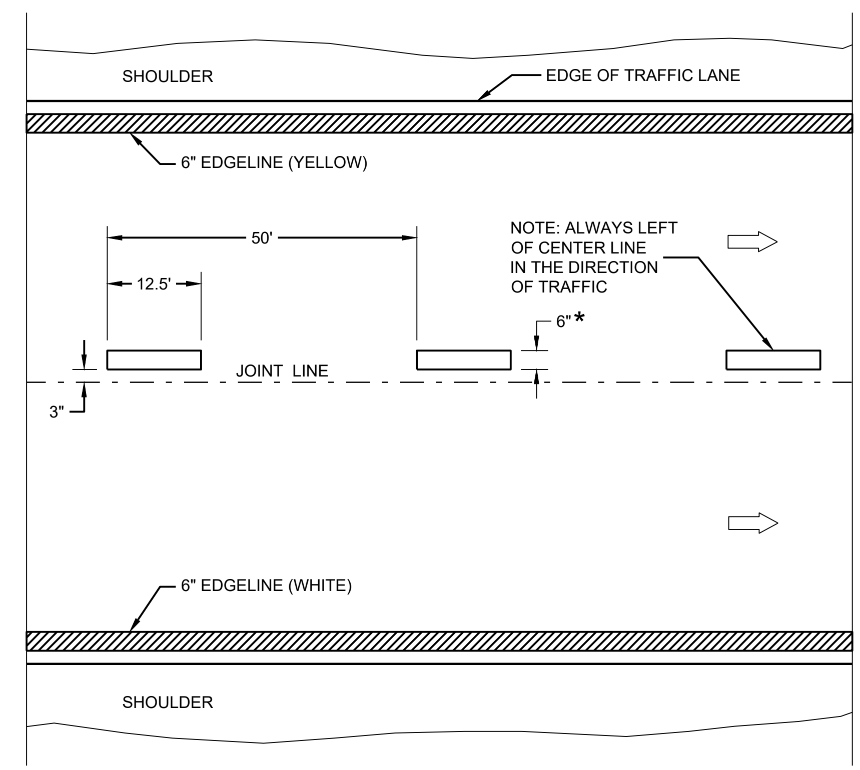
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

6

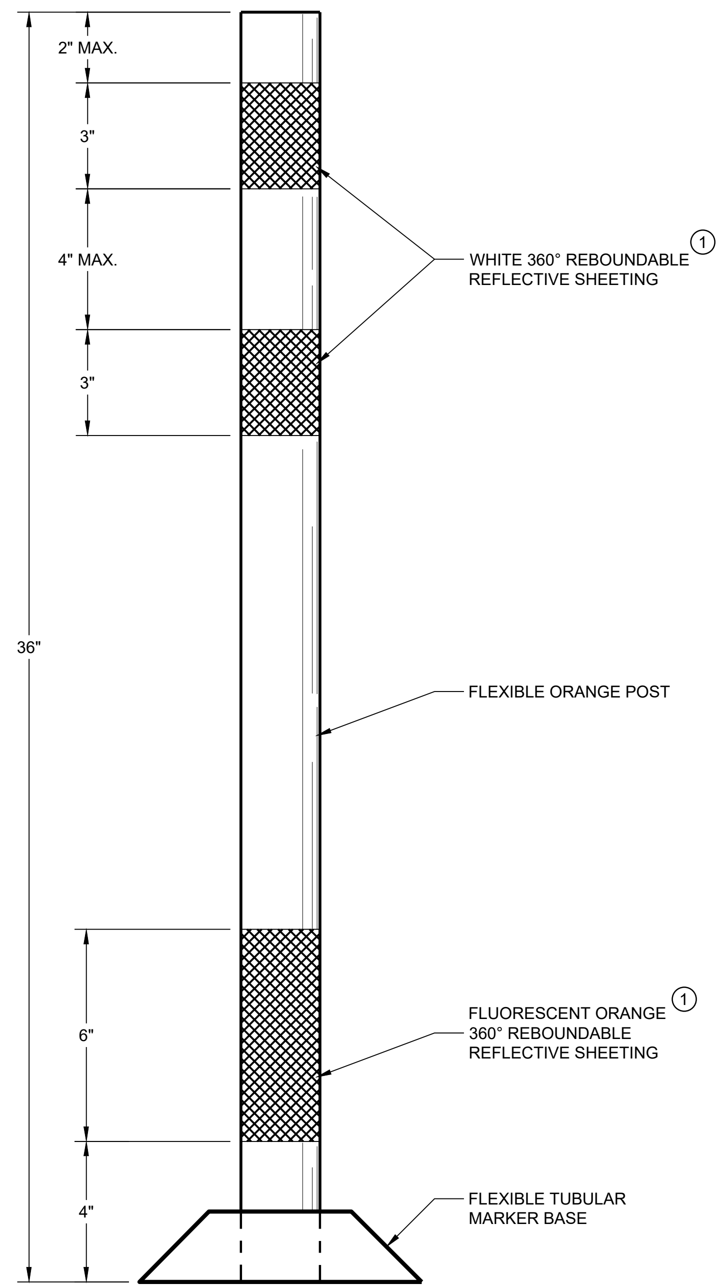
6

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER
FHWA

SDD 15C08-23b



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

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

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

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

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

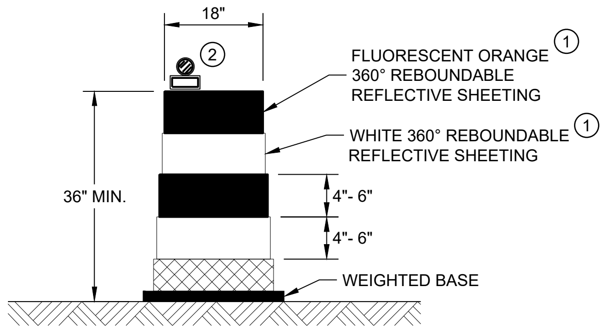
6

SDD 15C11 - 10a

GENERAL NOTES

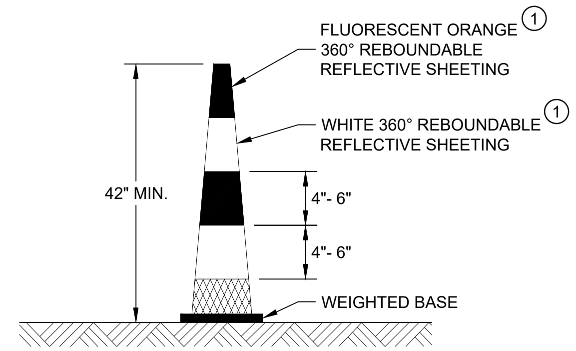
1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

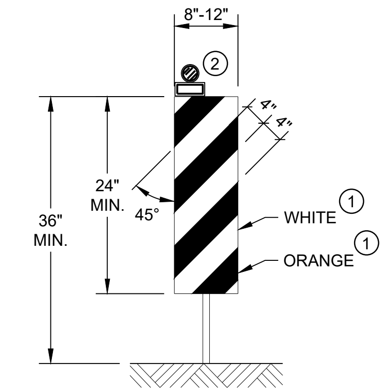
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

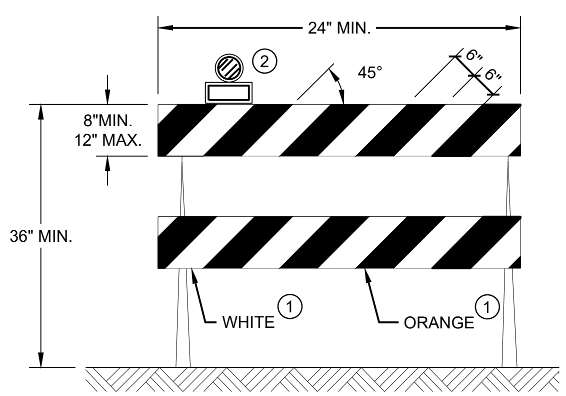
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



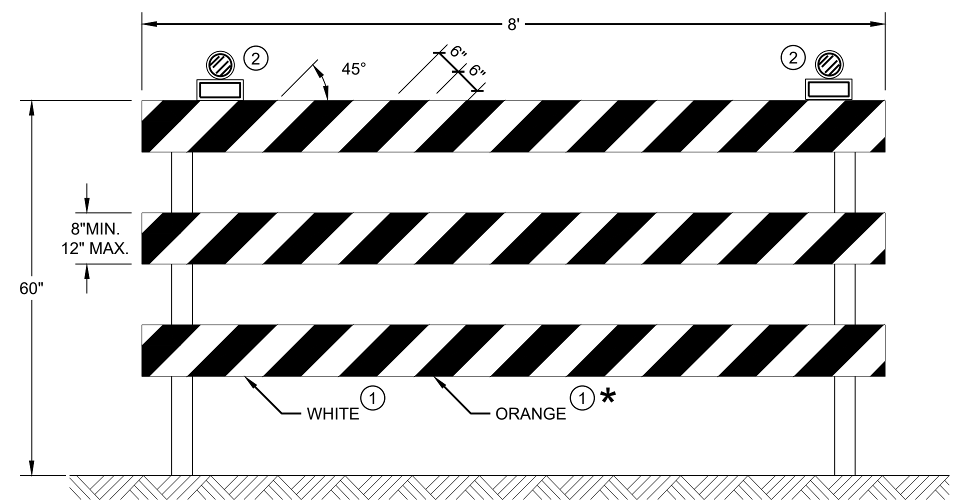
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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SDD 15C11 - 10b

**CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

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

GENERAL NOTES

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

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

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

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

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

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

FLAGGING

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

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

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

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

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

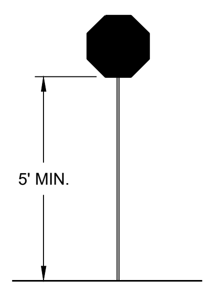
3 EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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



STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

WO3-4

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

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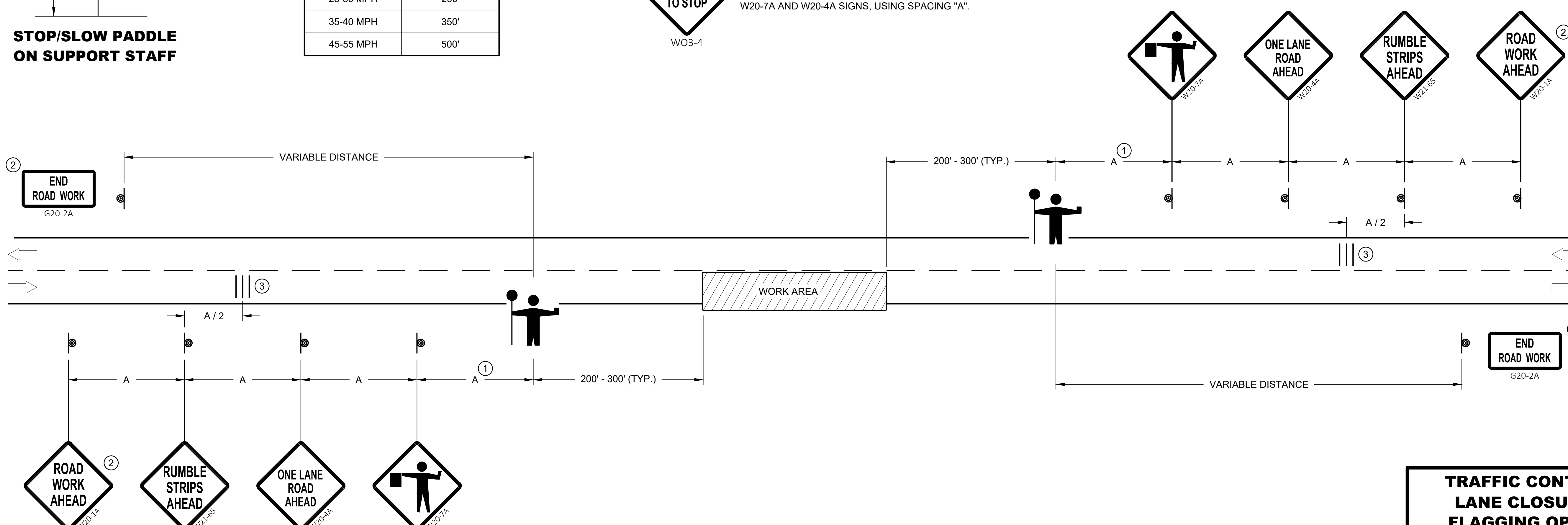

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SDD 15C12 - 09a

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022 — DATE

/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

SDD 15C12 - 09a

GENERAL NOTES

(sign symbol)	SIGN ON PERMANENT SUPPORT
(cone symbol)	TRAFFIC CONTROL CONE 42-INCH
●	TRAFFIC CONTROL DRUM
|||	TEMPORARY PORTABLE RUMBLE STRIP ARRAY
⇨	DIRECTION OF TRAFFIC
(hatched box)	WORK AREA
AFAD	AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

GENERAL NOTES

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

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

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

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

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

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

FLAGGING

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

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

1. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
2. IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

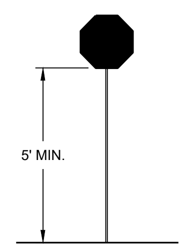
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

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

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

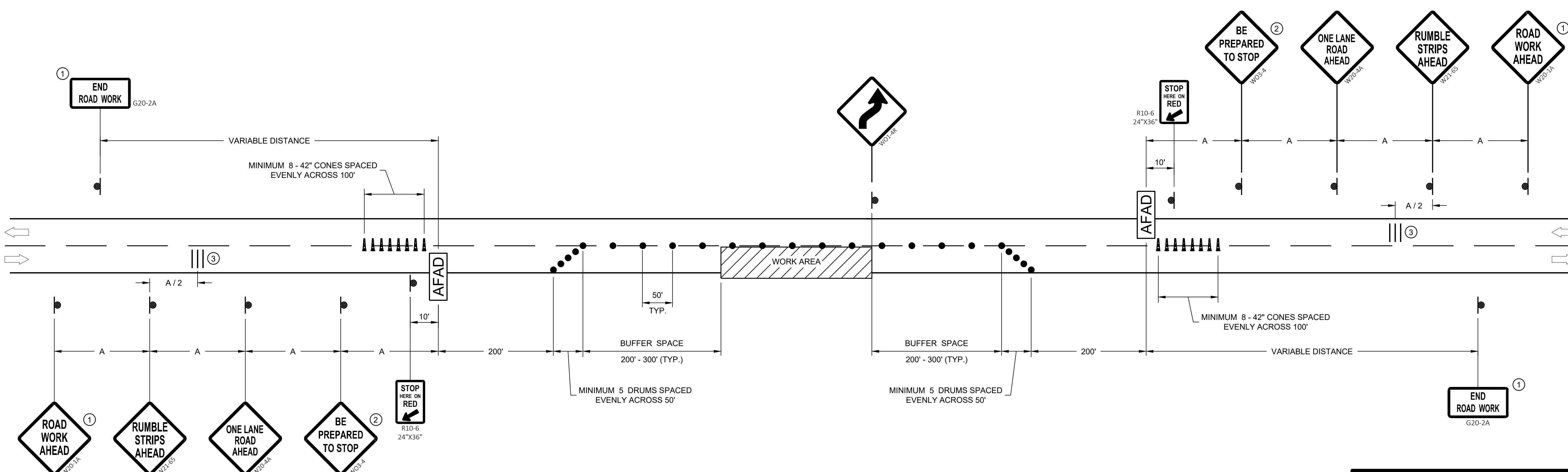
3. EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022 — DATE

/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

SDD 15C12 - 09b

6

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

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

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

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

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

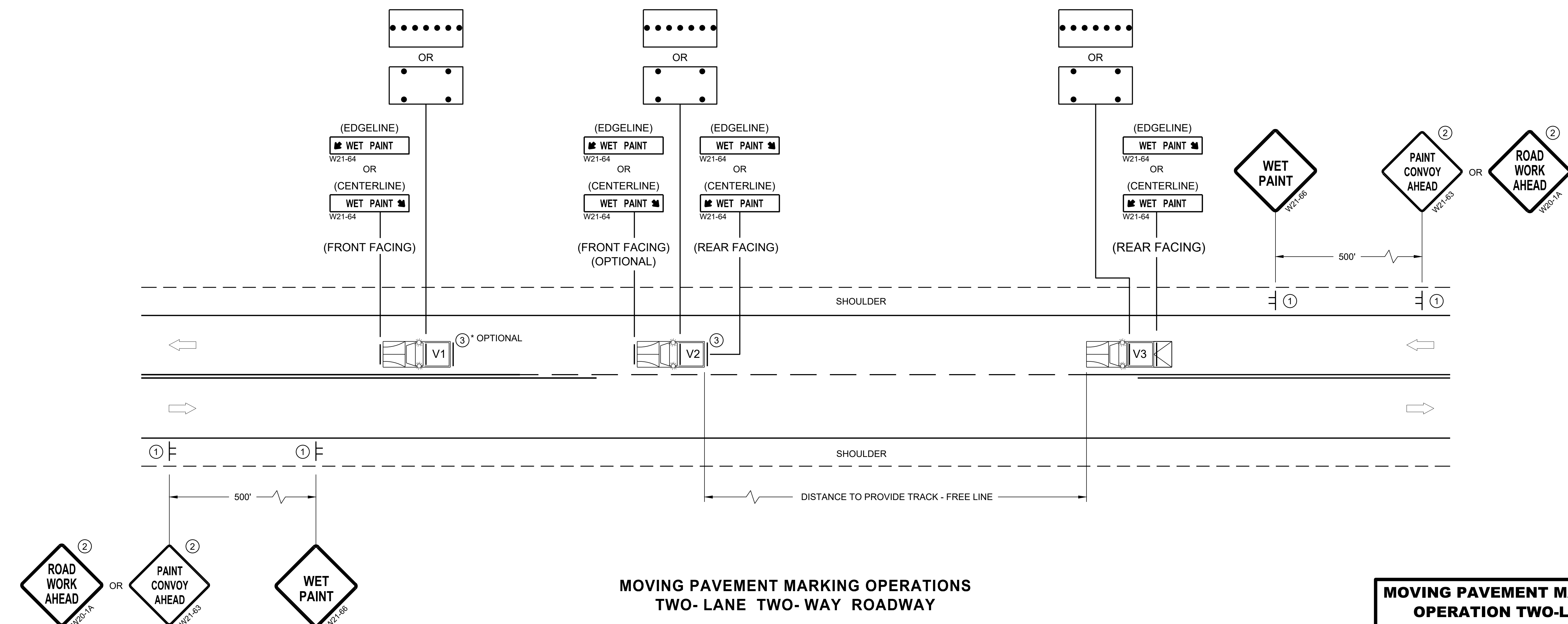
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

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

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

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

1. SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
2. IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.
3. V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS
TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023
DATE
/S/ Andrew H...
WORK ZONE EN...
FHWA

6

SDD 15C19-08a

GENERAL NOTES

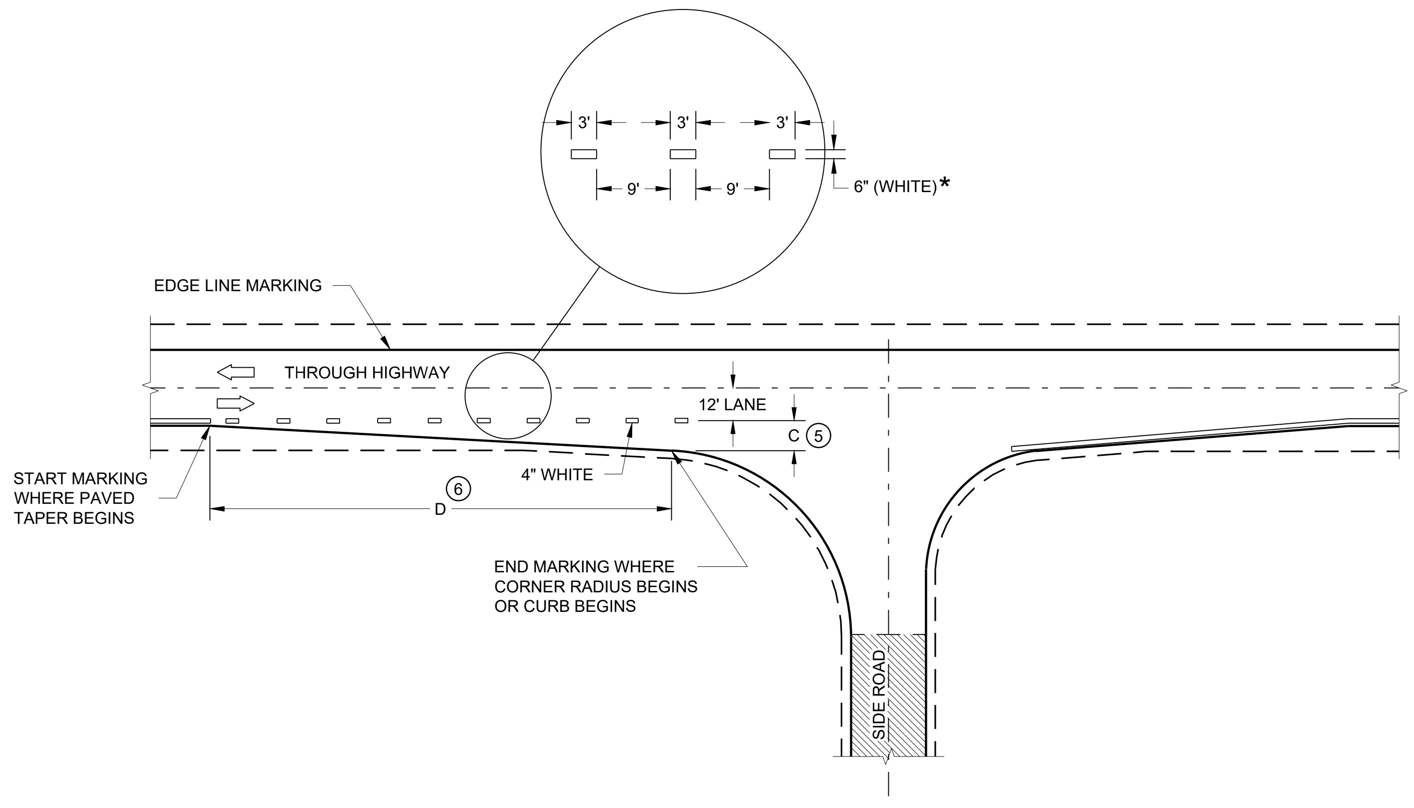
OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

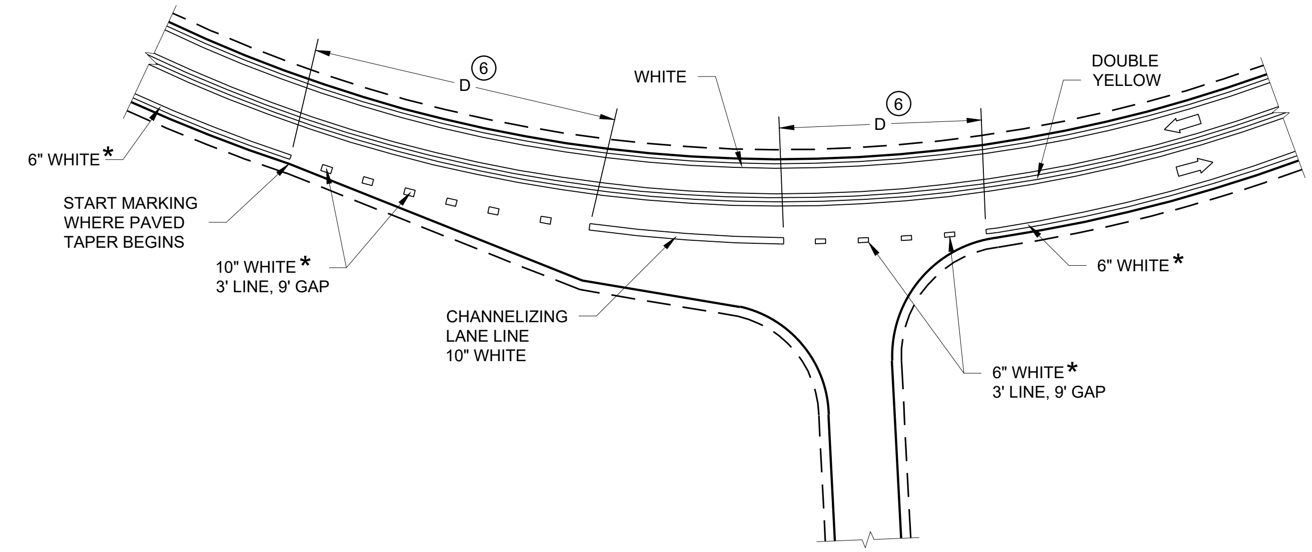
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

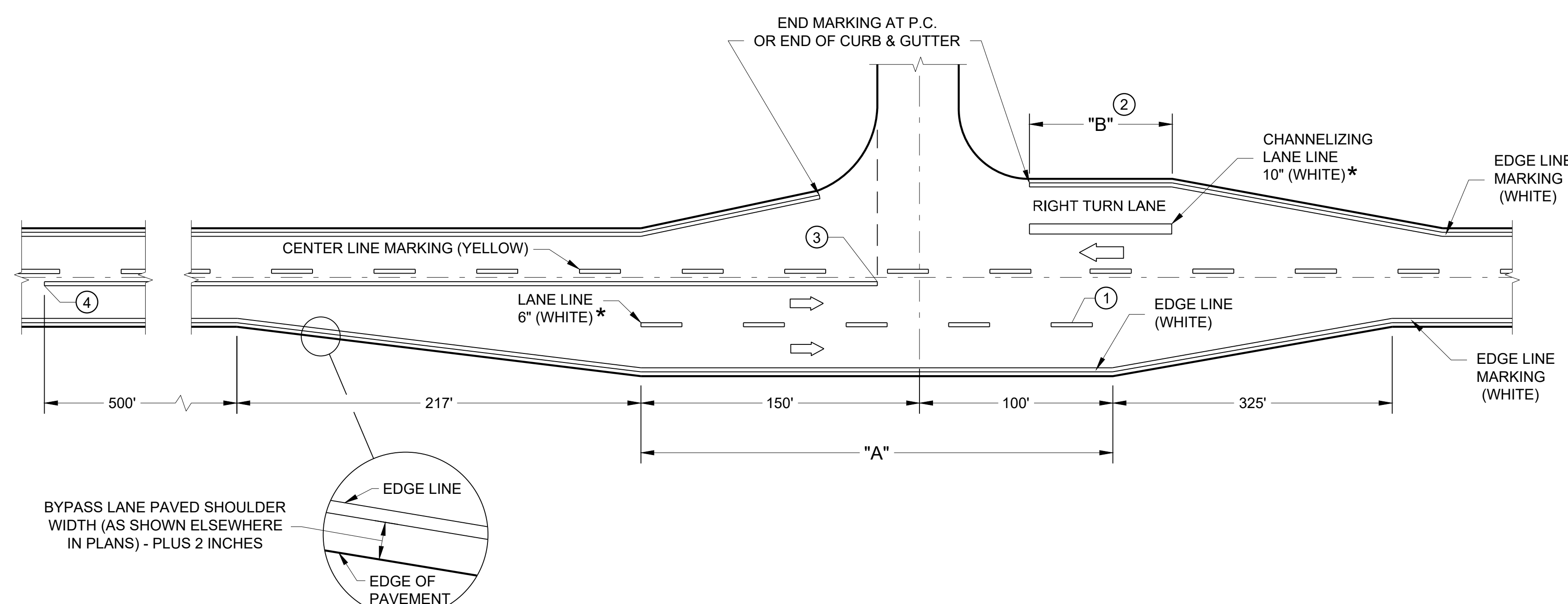
DIRECTION OF TRAVEL



MINOR INTERSECTION



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

6

SDD 15C35-06a

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.

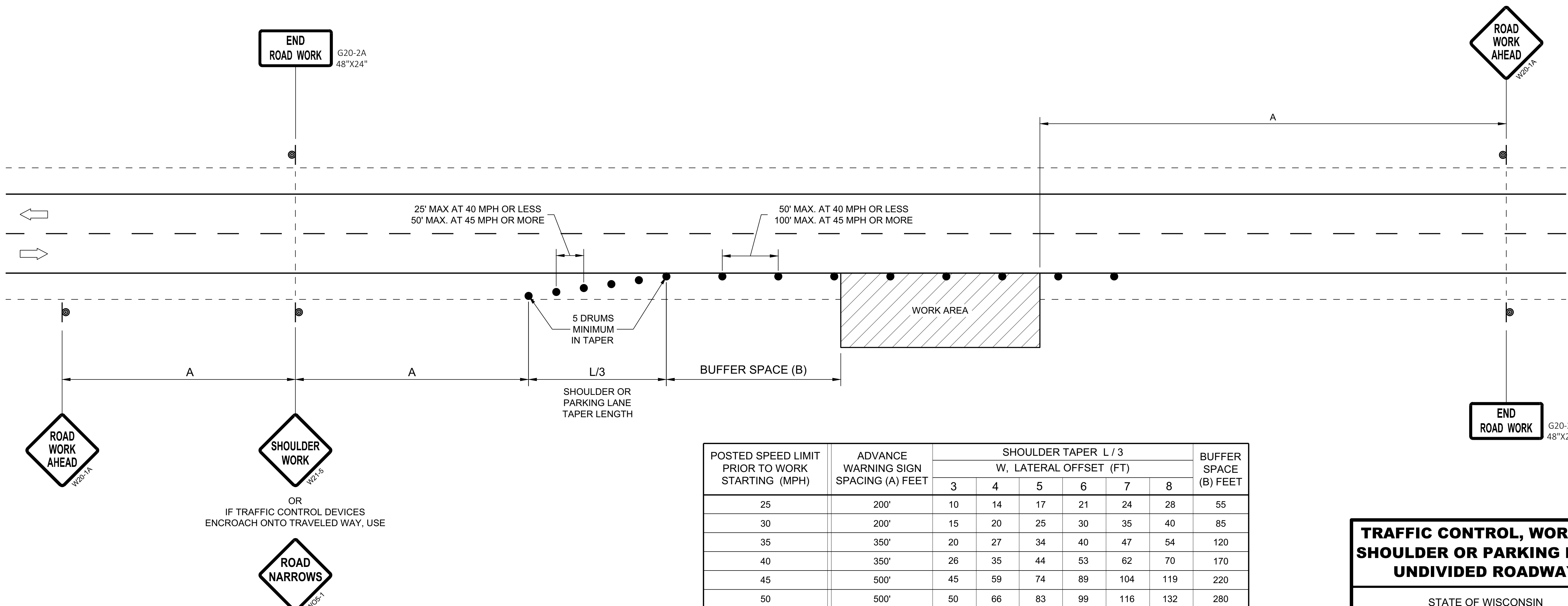
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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.

6

6



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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.

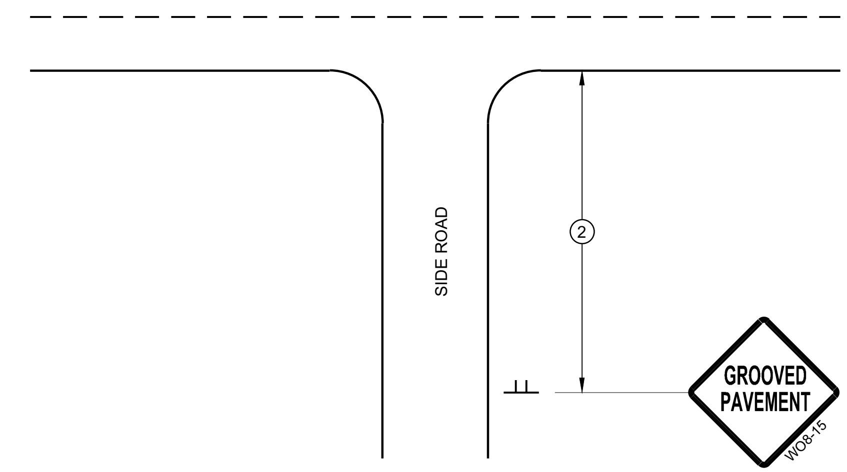
SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

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.

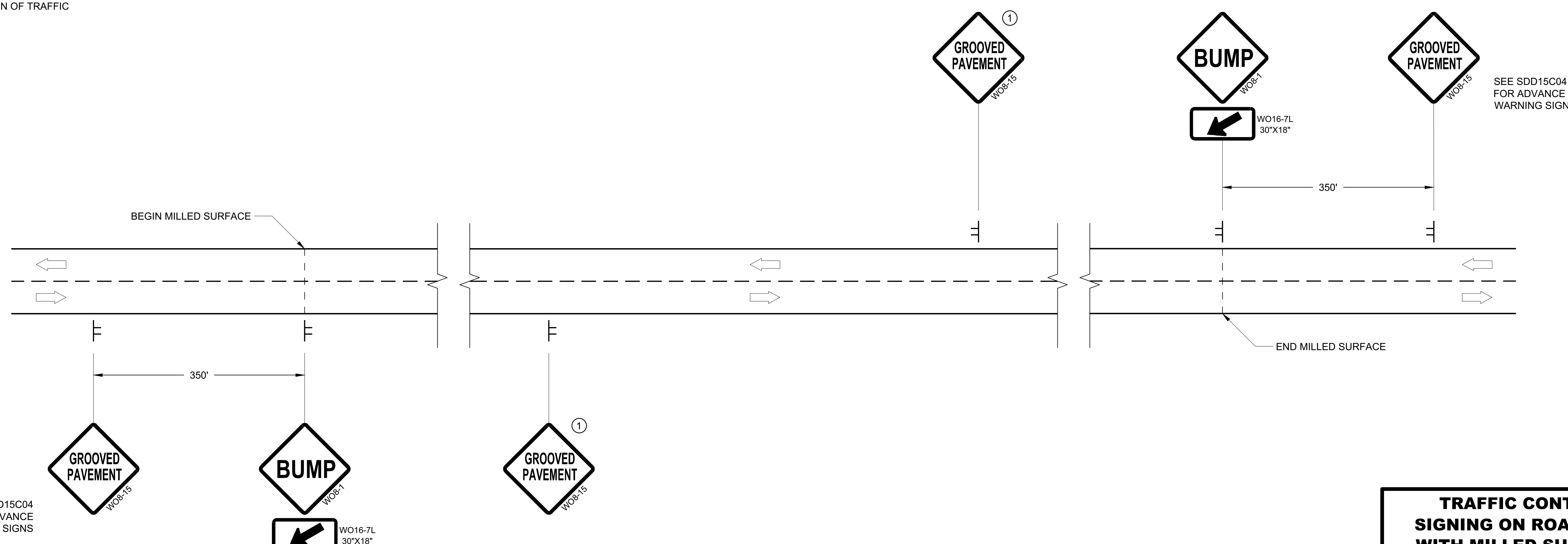
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

6

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SDD 15D44 - 02

SDD 15D44 - 02

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

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

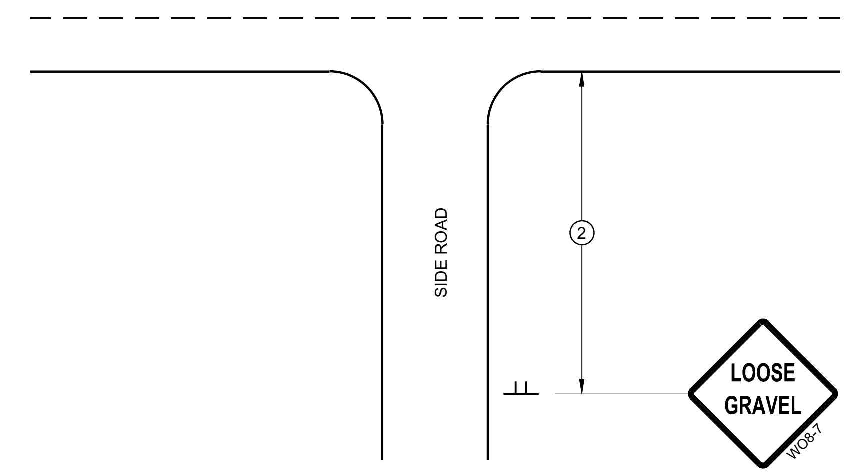
SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

1. PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
2. PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.
3. ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

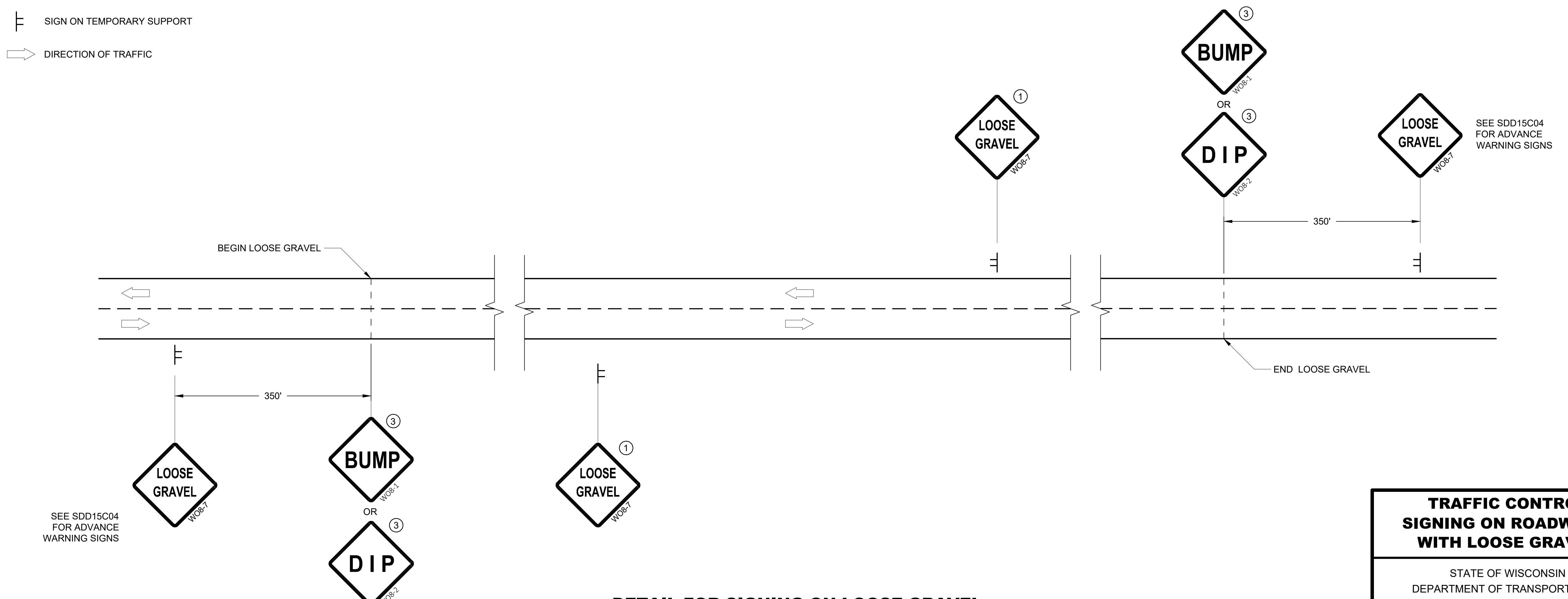
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

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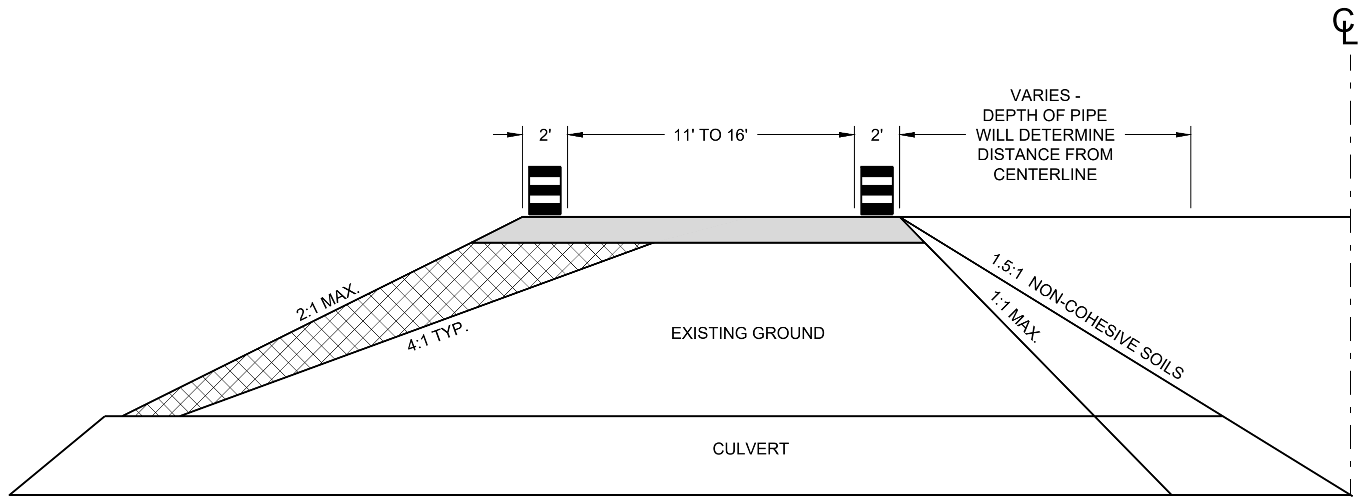
TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED February 2021 — /S/ Andrew Heidtke DATE — WORK ZONE ENGINEER FHWA

SDD 15D45 - 03

SDD 15D45 - 03



CROSS SECTION

GENERAL NOTES

USE 1:1 FOR COHESIVE CLAYS AND SILTS, LOAMS, SANDY CLAYS AND ANGULAR GRAVEL SOILS.
USE 1.5:1 FOR NON-COHESIVE SOILS.

THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

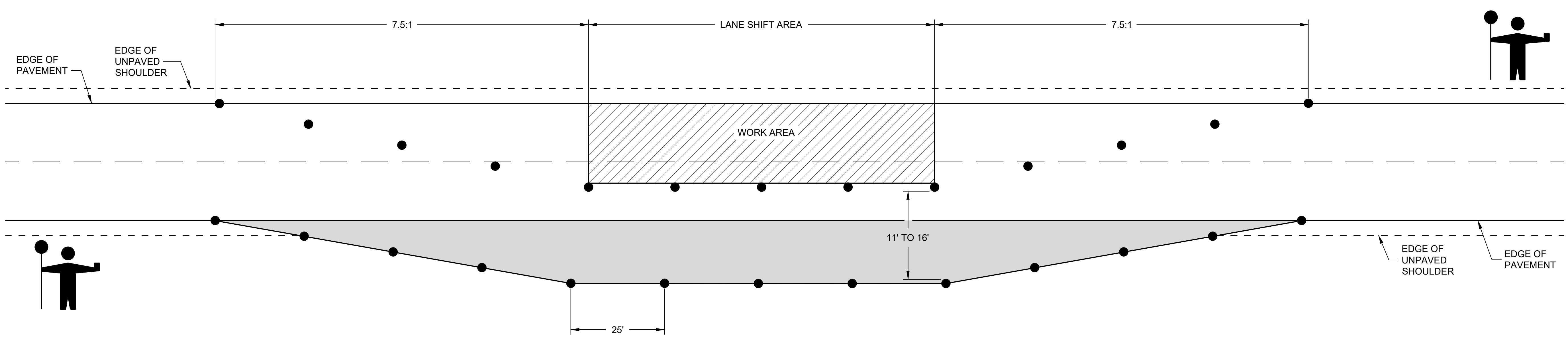
USE WITH SDD 15C12 "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

USE WITH SDD 15D45 "SIGNING ON ROADWAYS WITH LOOSE GRAVEL"

LEGEND

- DRUM WITHOUT WARNING LIGHT
- 6" BASE AGGREGATE DENSE 1 ¼" -INCIDENTAL TO LANE SHIFT ITEM
- FILL - INCIDENTAL TO LANE SHIFT ITEM
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

6



LANE SHIFT IN FLAGGING OPERATION

TRAFFIC CONTROL, TEMPORARY LANE SHIFT DURING CULVERT WORK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

SDD 15D48 - 01

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.

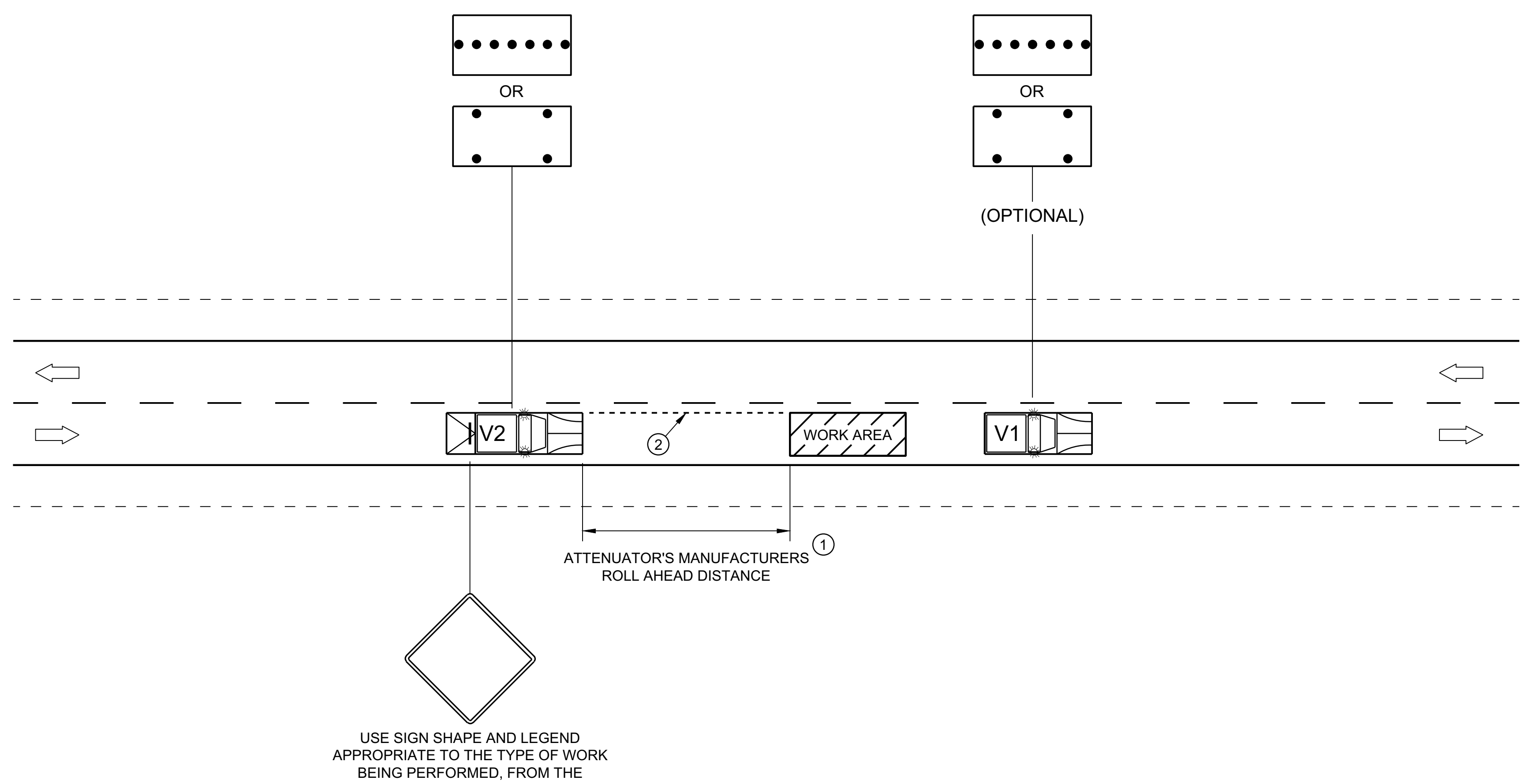
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

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.



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SDD 15D51 - 01

SDD 15D51 - 01

TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

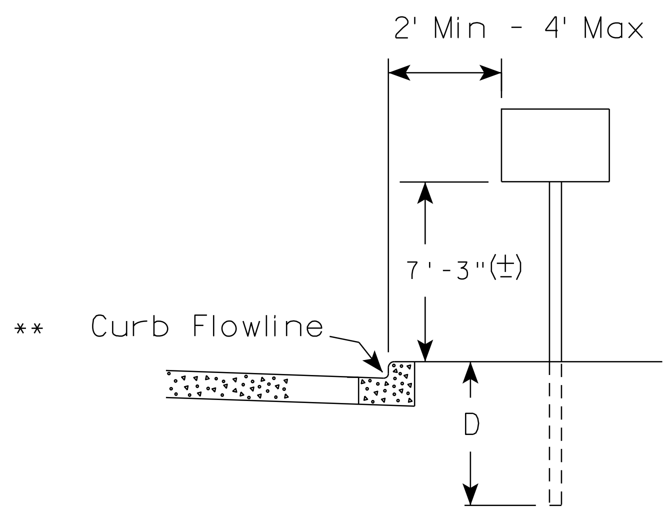
February 2021 /S/ Andrew Heidtke

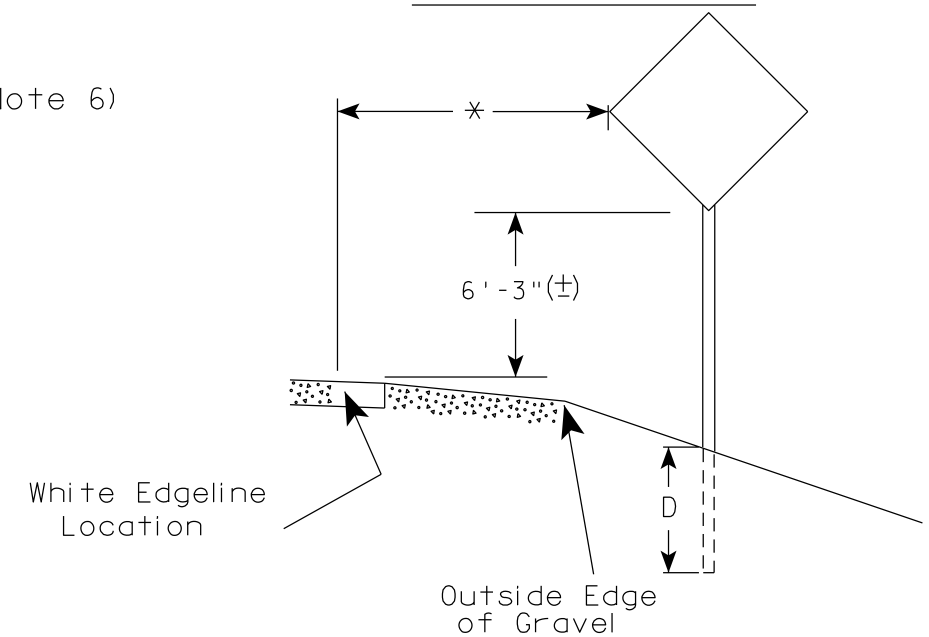
DATE STATEWIDE WORK ZONE SAFETY ENGINEER

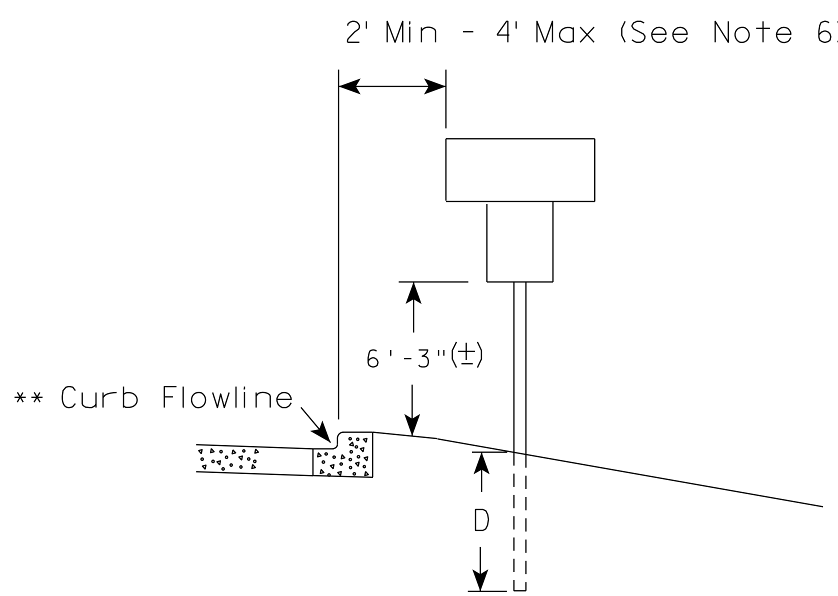
FHWA

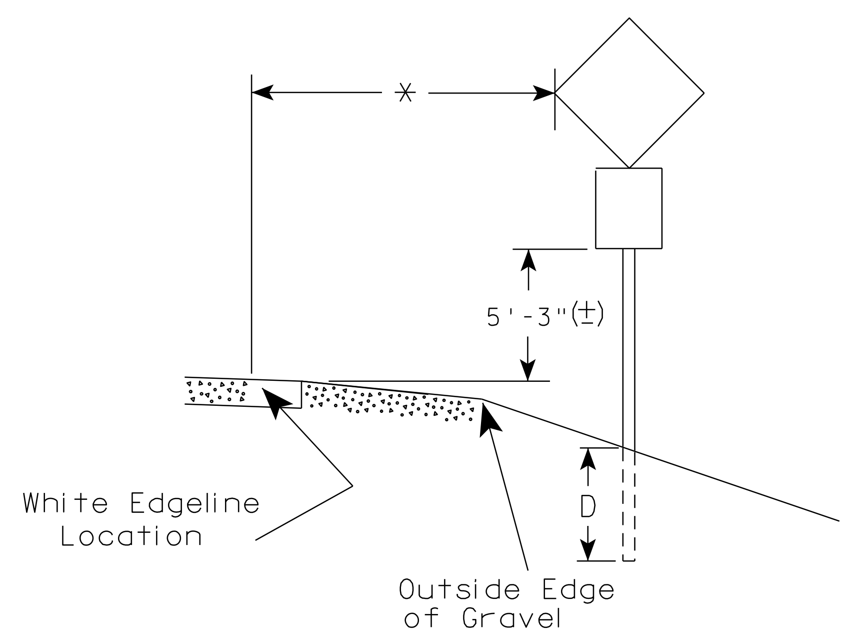
URBAN AREA

RURAL AREA (See Note 2)









GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

7

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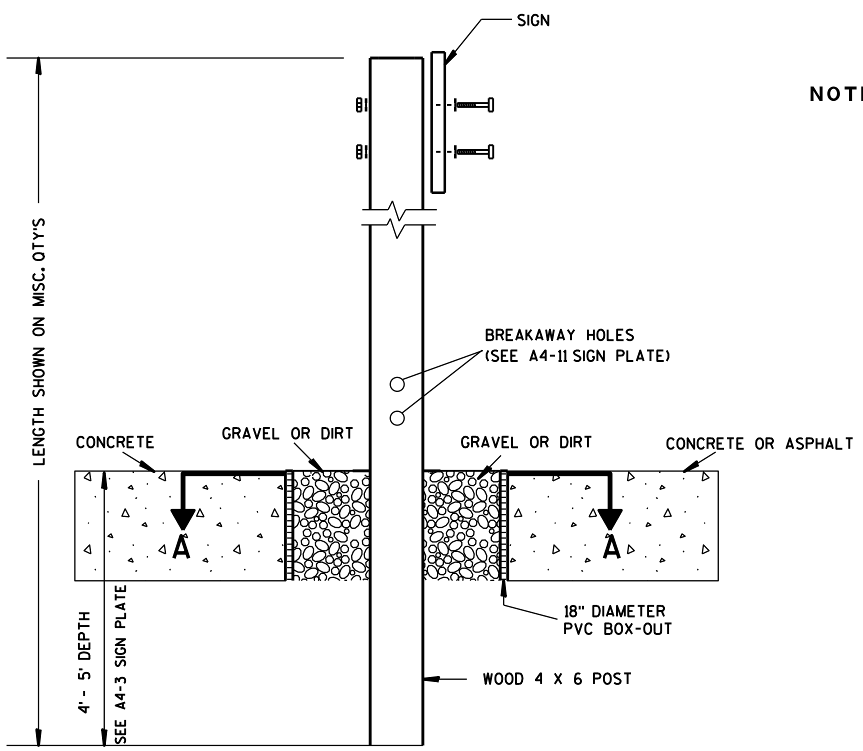
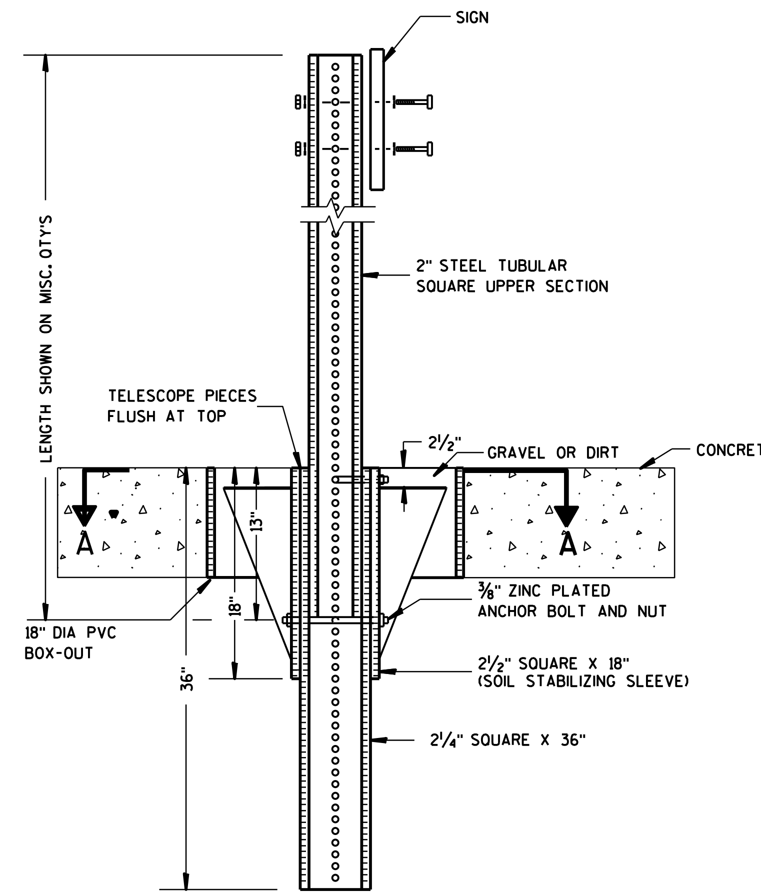
NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



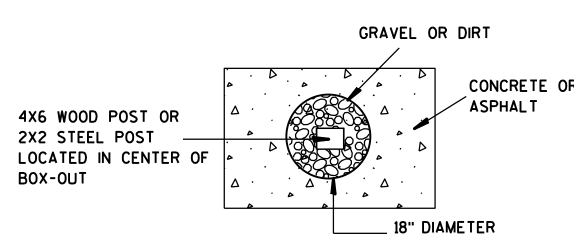
ELEVATION VIEW

DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

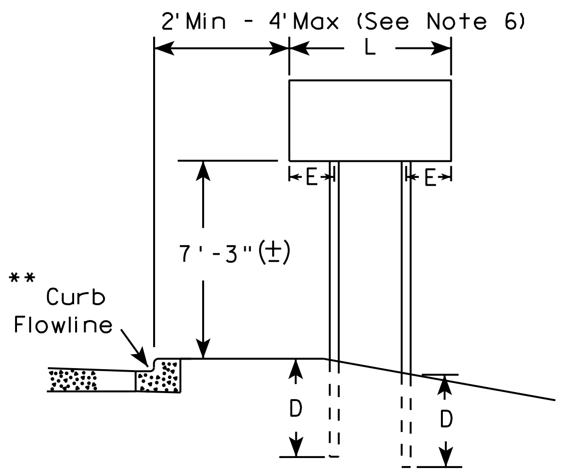
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

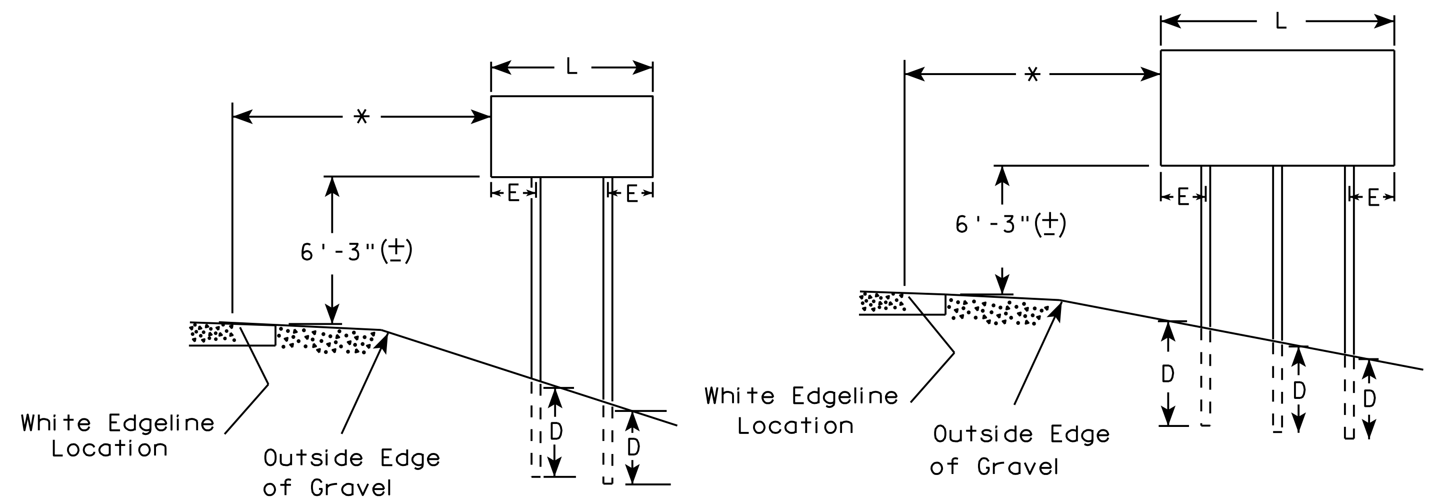
7

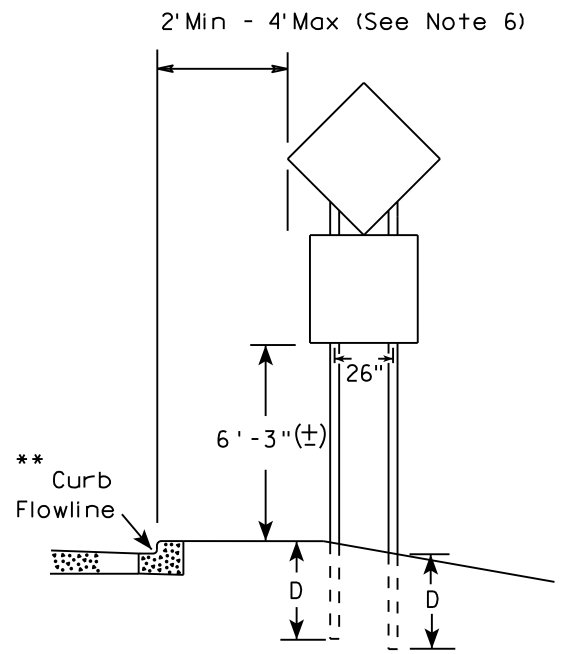
7

URBAN AREA

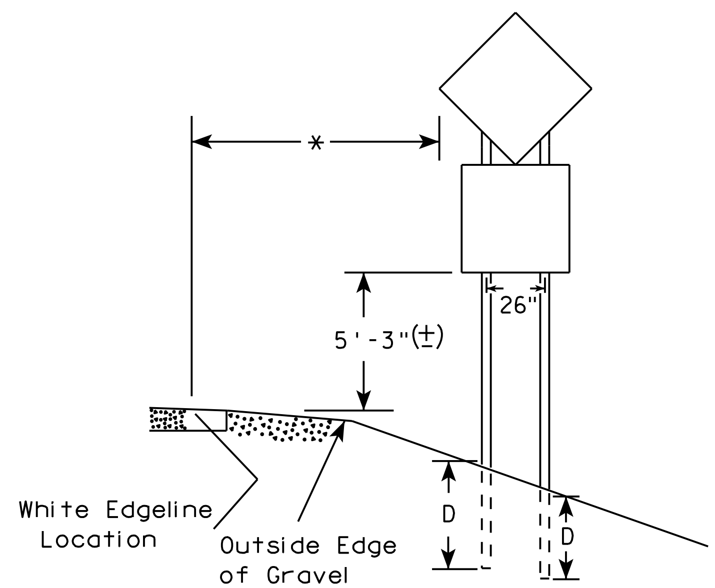


RURAL AREA (See Note 3)





48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)

	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)

L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

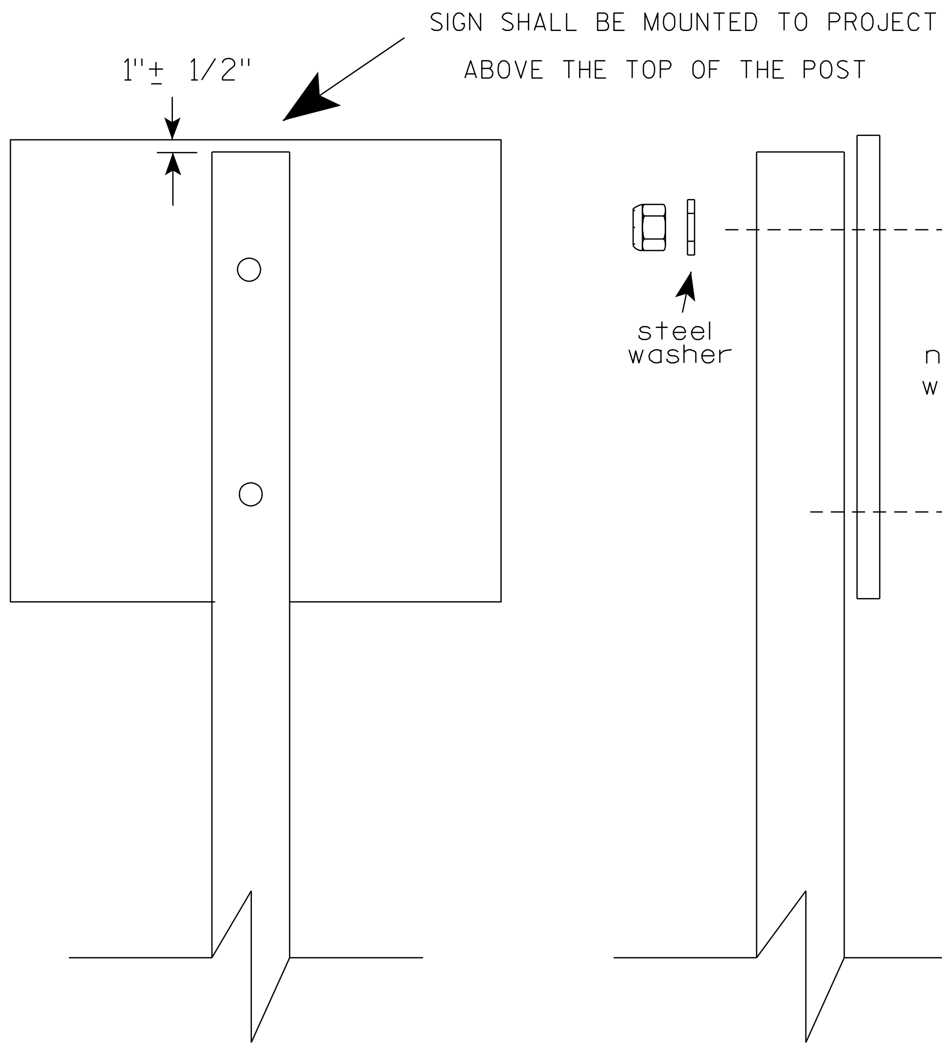
WISCONSIN DEPT OF TRANSPORTATION

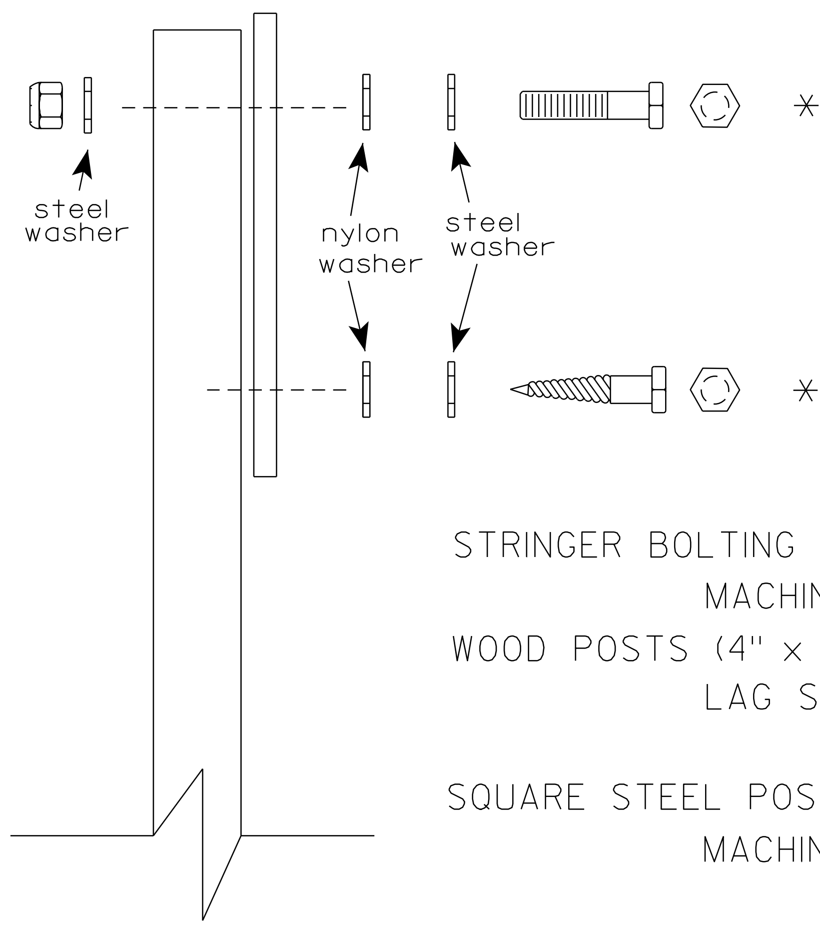
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

7

7





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

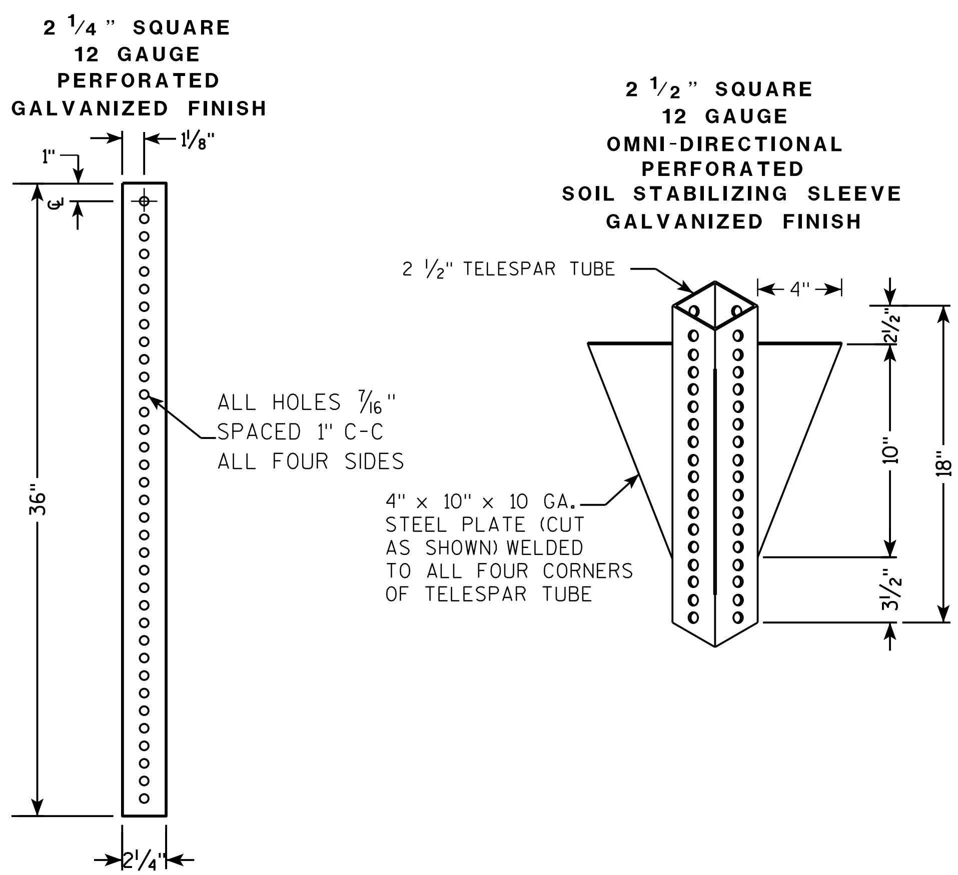
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

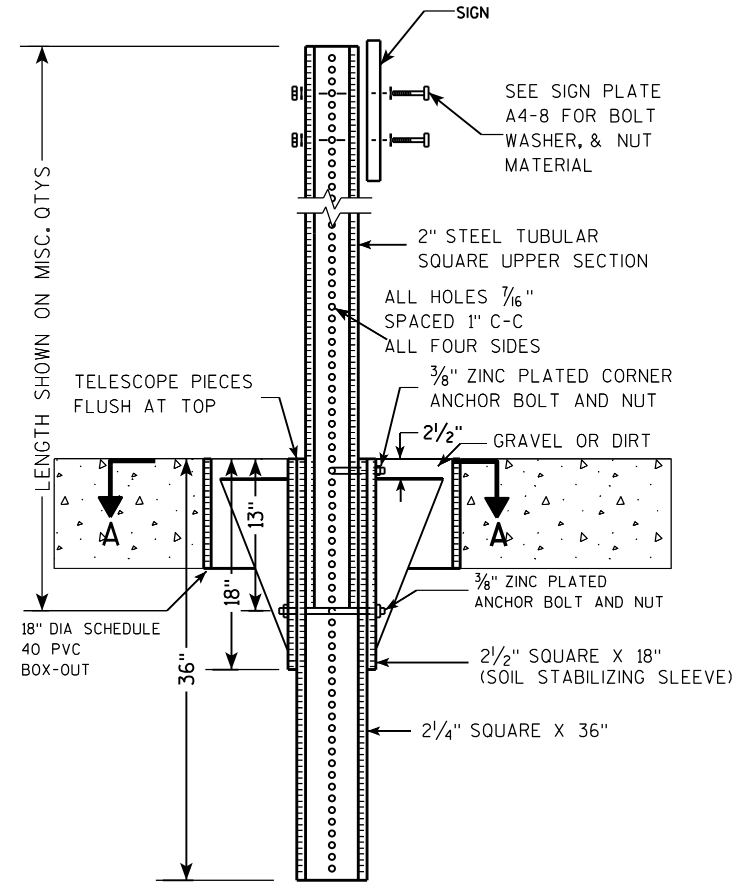
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:				SHEET NO: 112	E

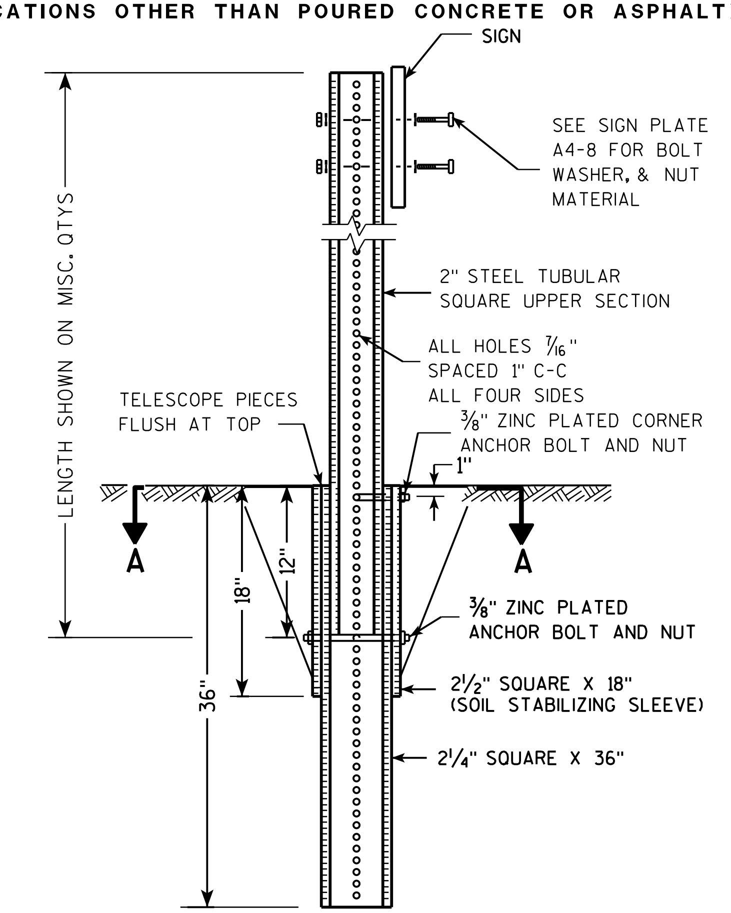
TELESCOPIC TUBING ANCHORS TWO PIECE SYSTEM

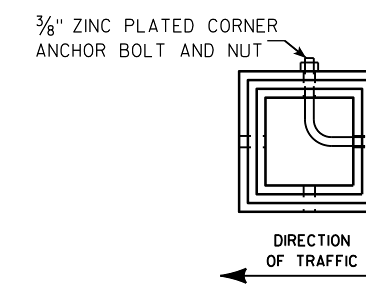


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

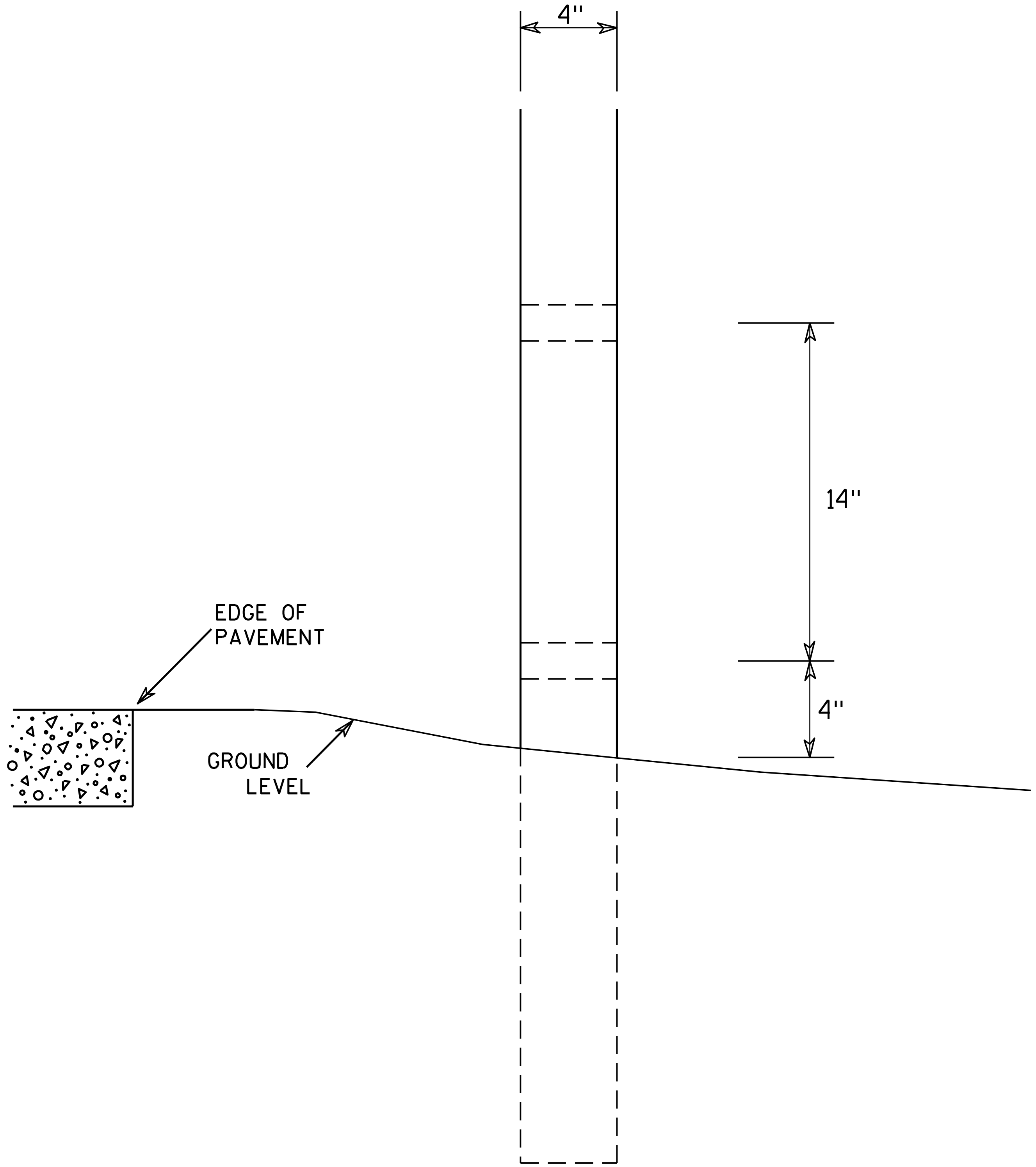
WISCONSIN DEPT OF TRANSPORTATION

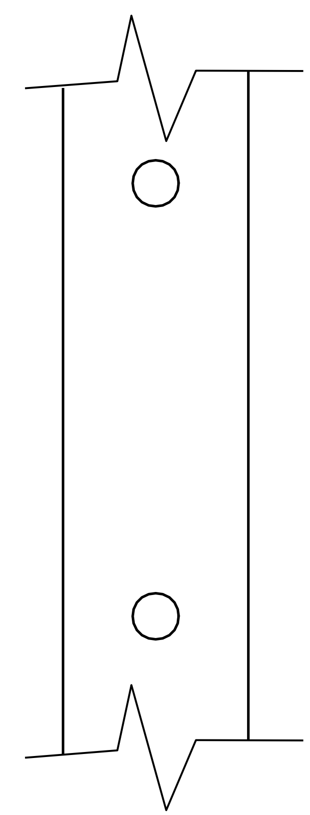
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

7 | 7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: | E





SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two $1\frac{1}{2}$" diameter holes drilled perpendicular to the roadway centerline.

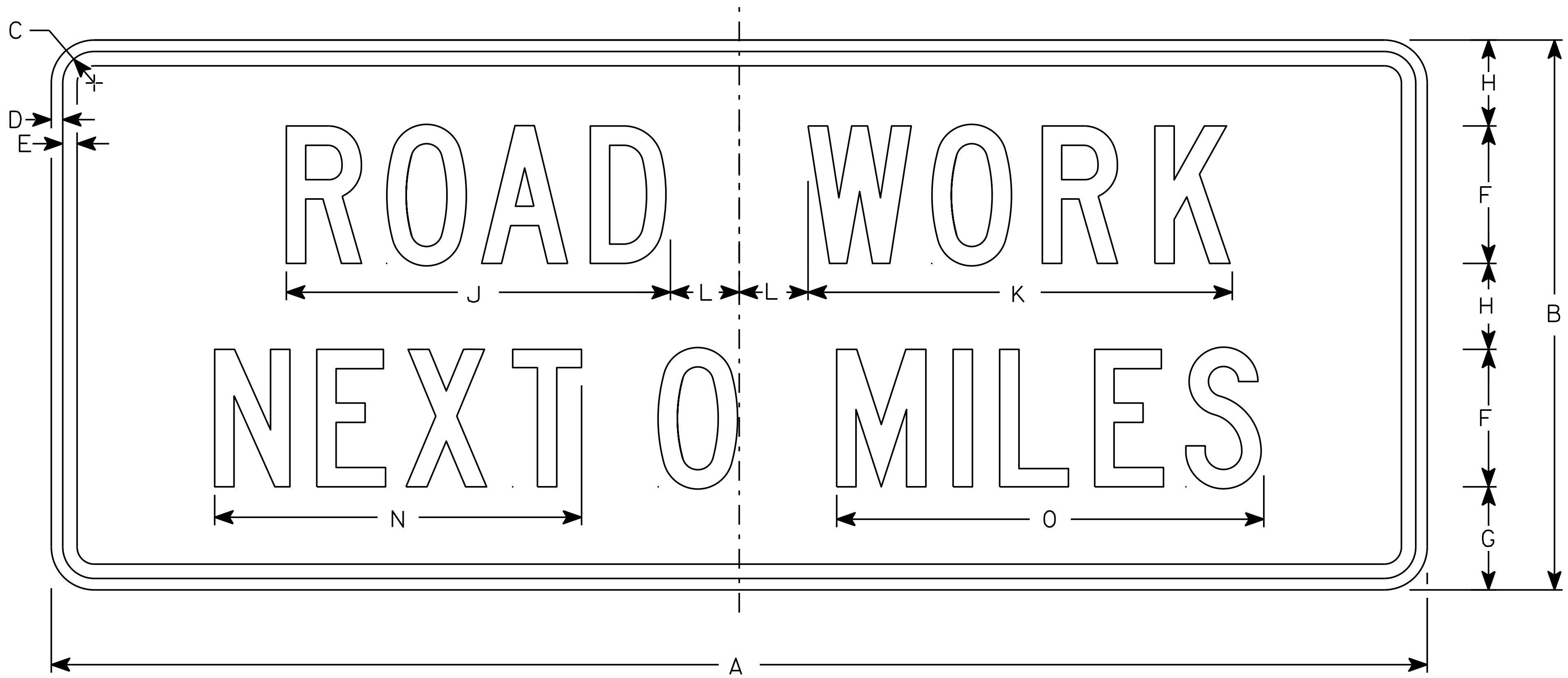
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 114	E



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

STANDARD SIGN
G20-1

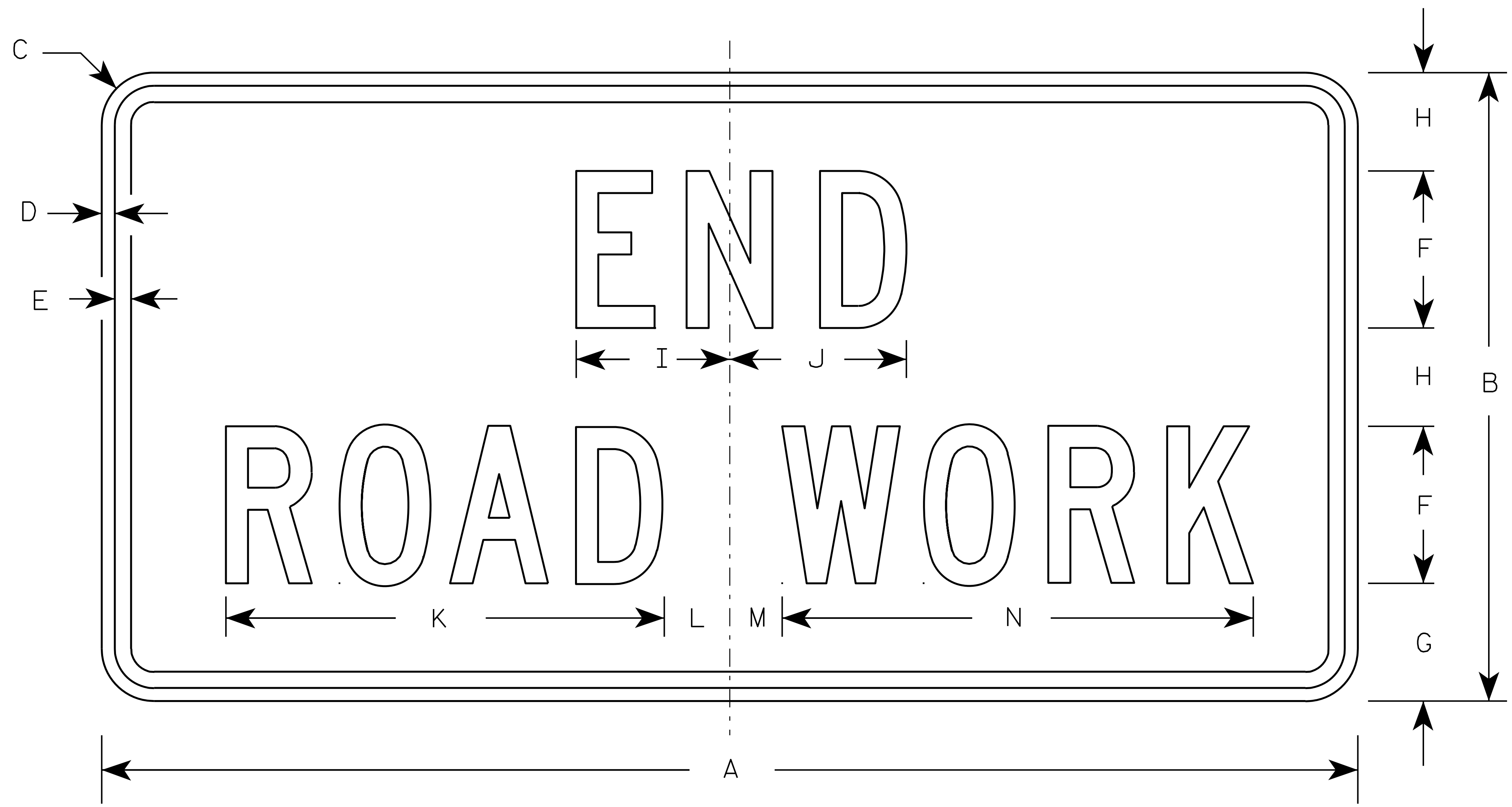
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

7

7



G20-2A

7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

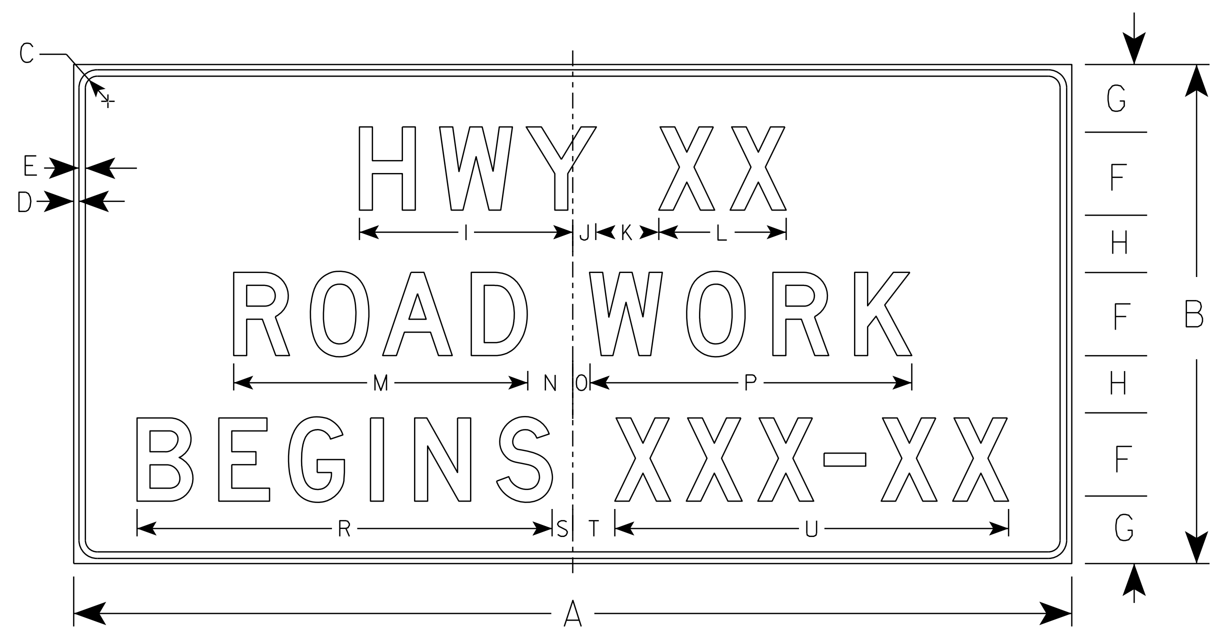
DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO: HWY: COUNTY: SHEET NO: 116 E

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



G20-57

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 7/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 7/8						32.0
5																											

STANDARD SIGN
G20-57

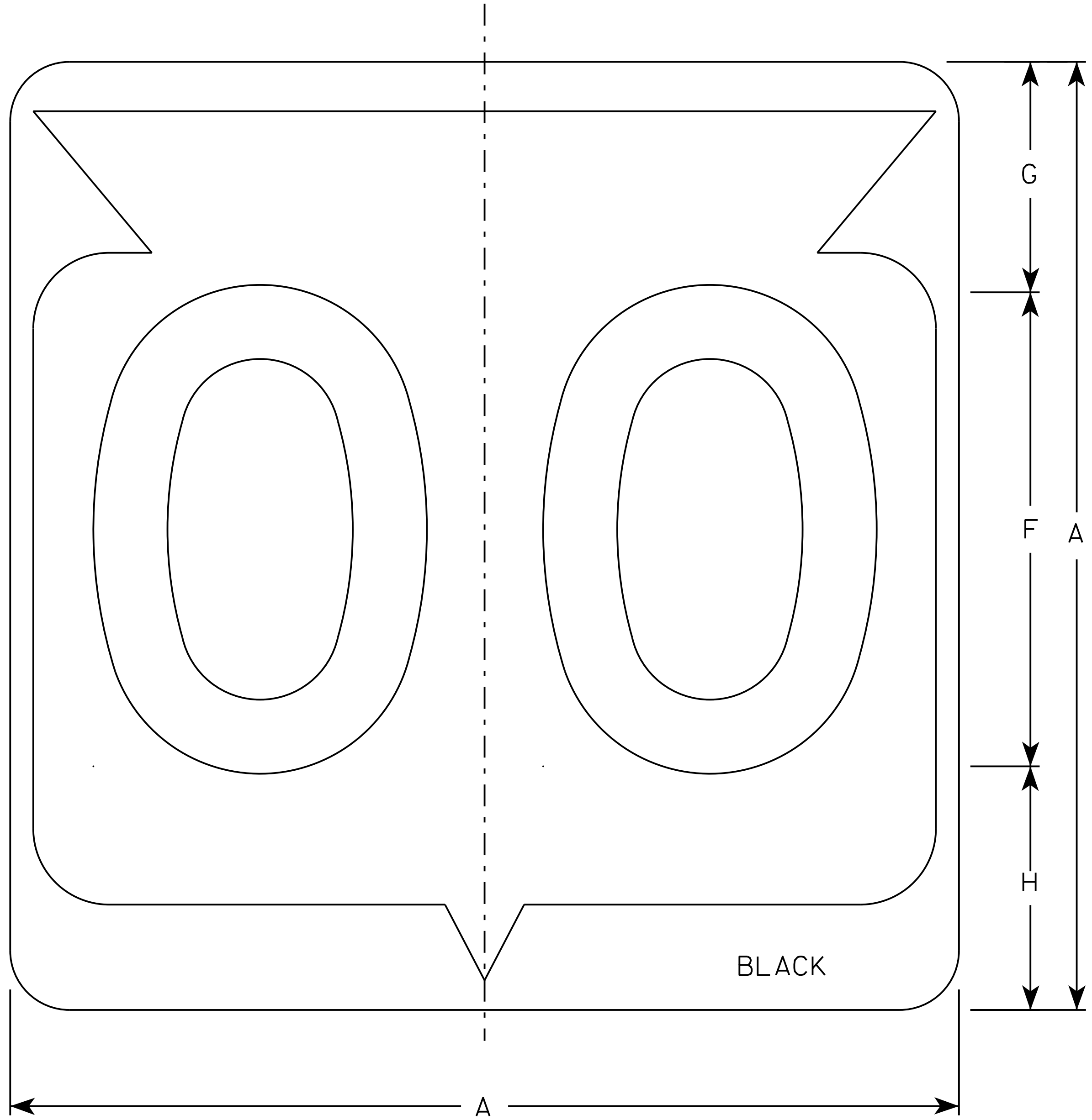
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

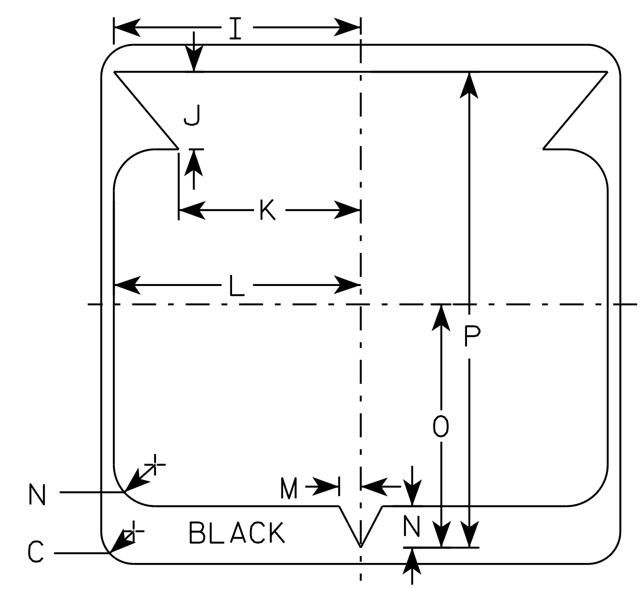
DATE 1/22/19 PLATE NO. G20-57.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 117 | E

7



M1-6



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

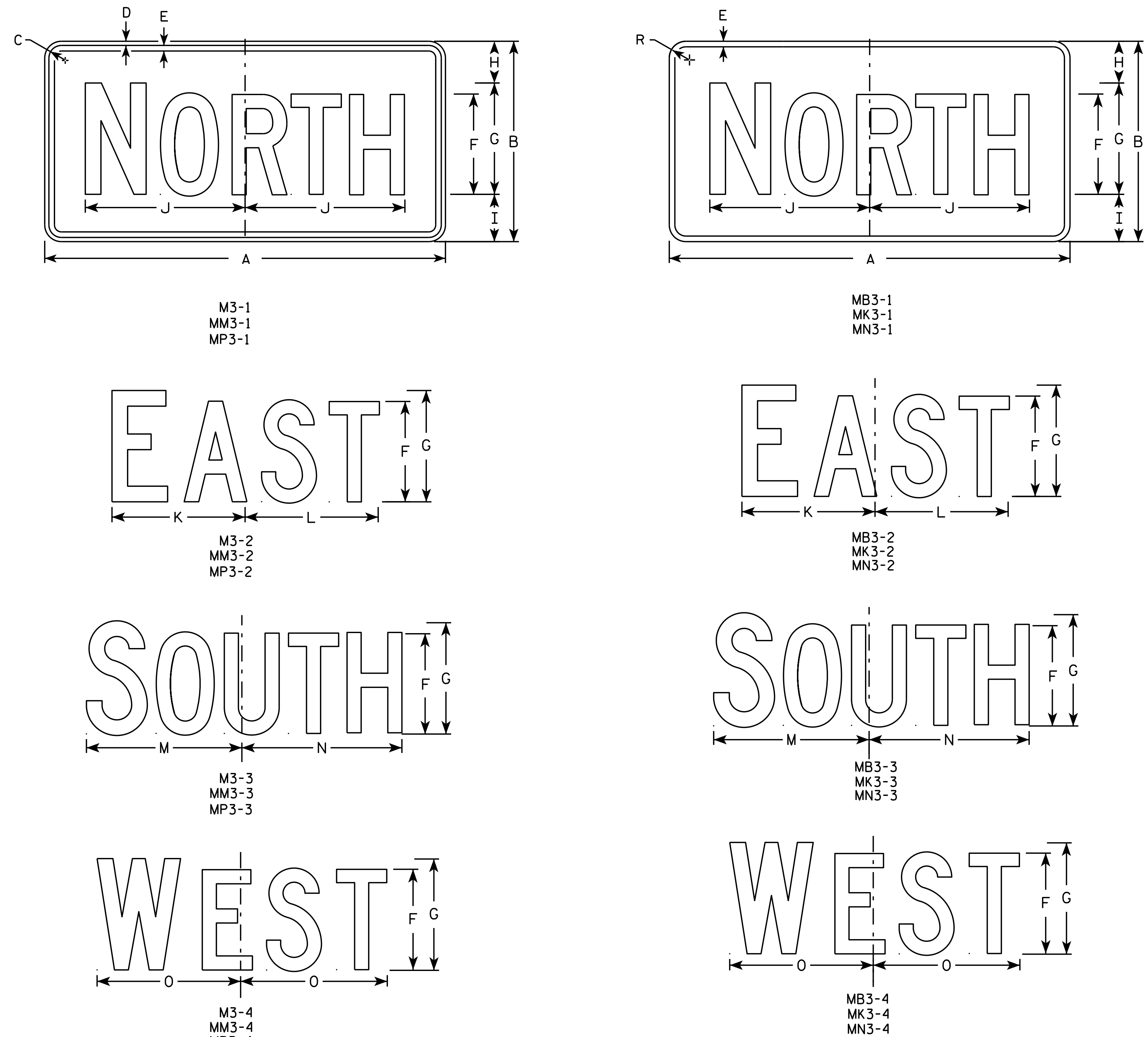
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10



NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

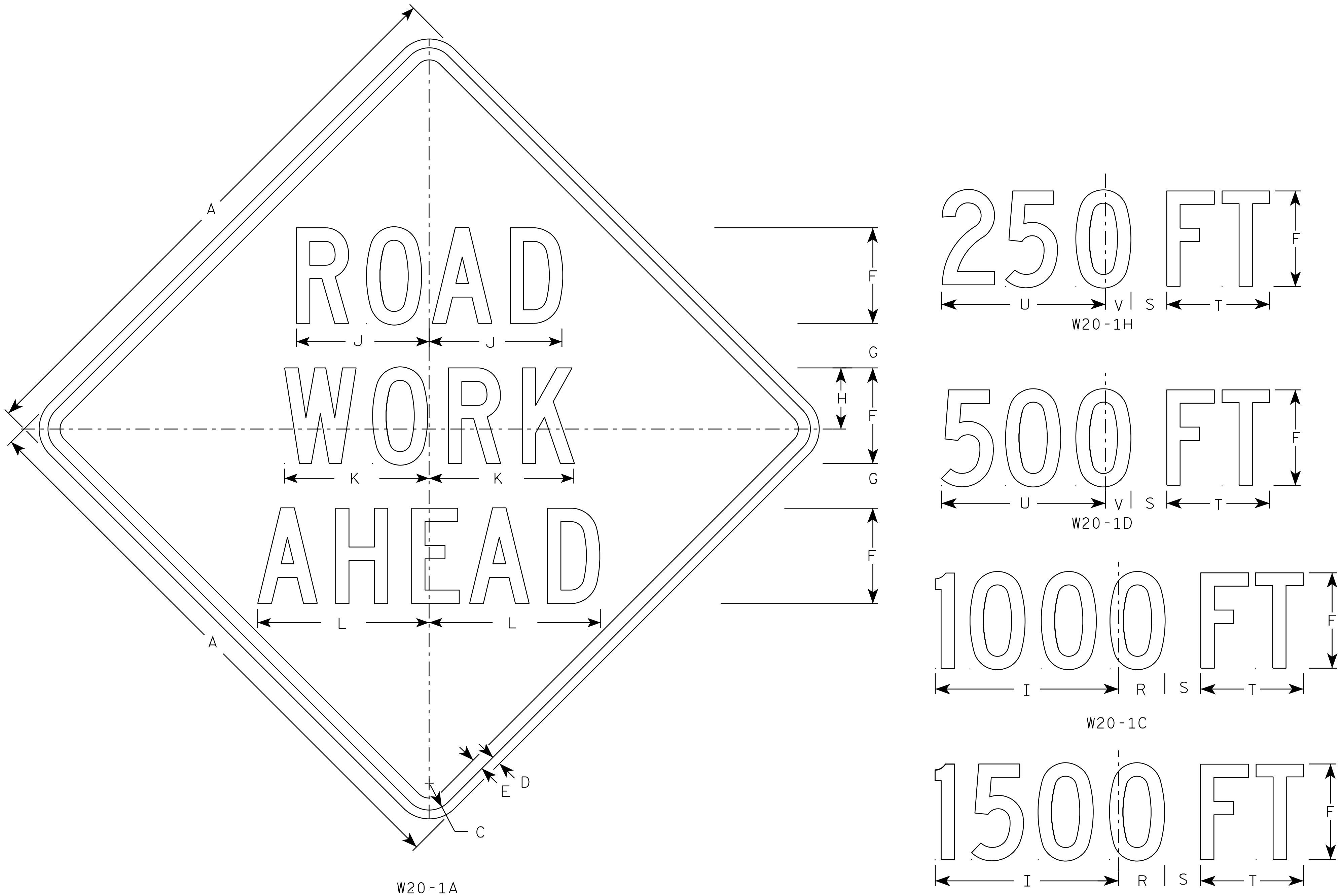
WISCONSIN DEPT OF TRANSPORTATION

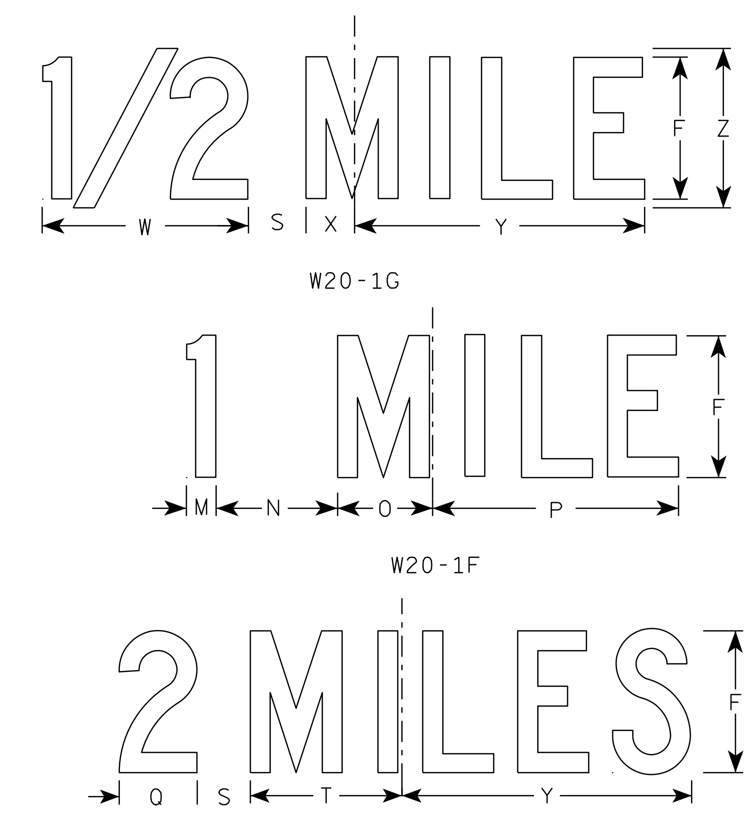
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M3-1.14

PROJECT NO: HWY: COUNTY: SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000





NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

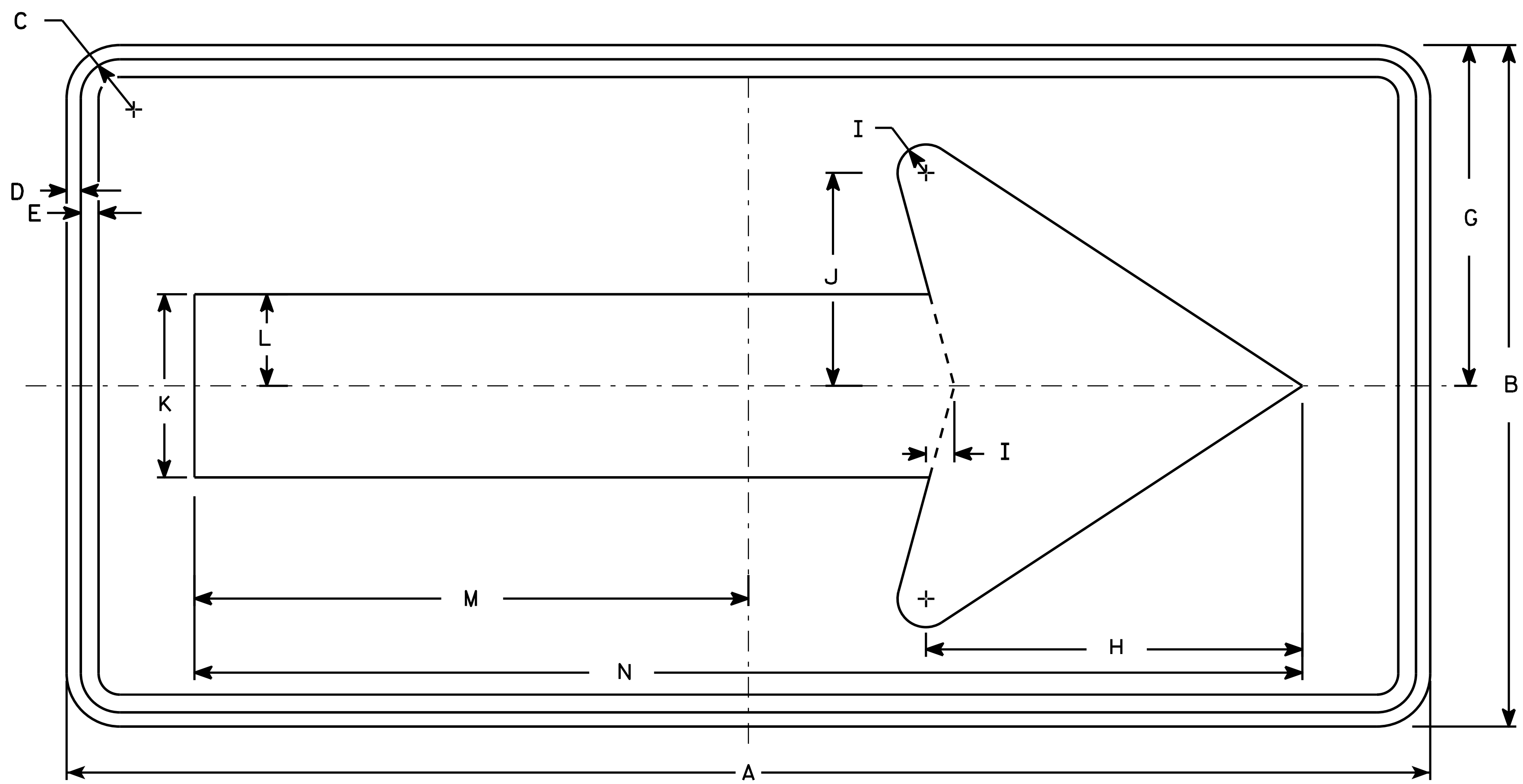
DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

SHEET NO: E

7

7



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

WISCONSIN DEPT OF TRANSPORTATION

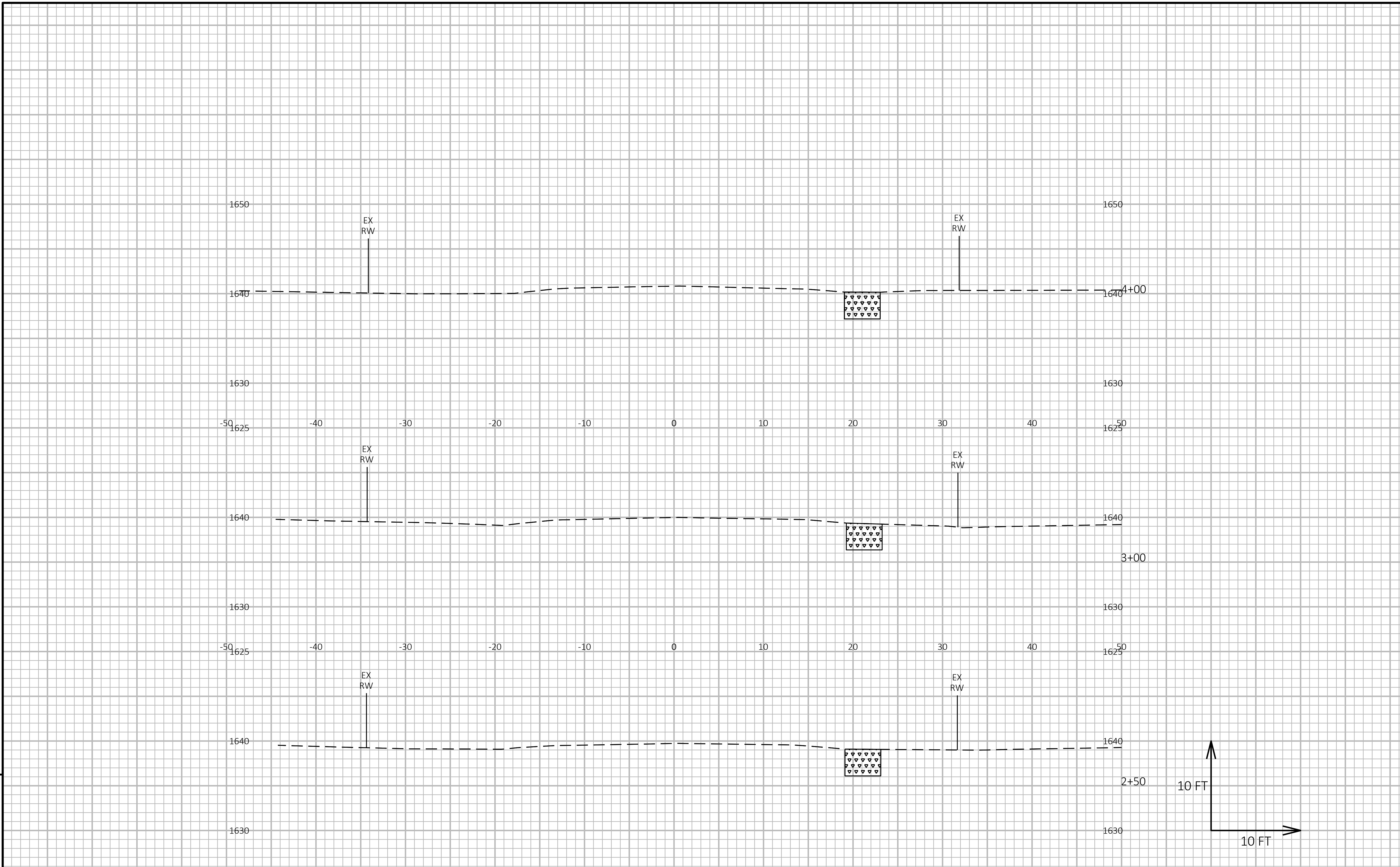
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42

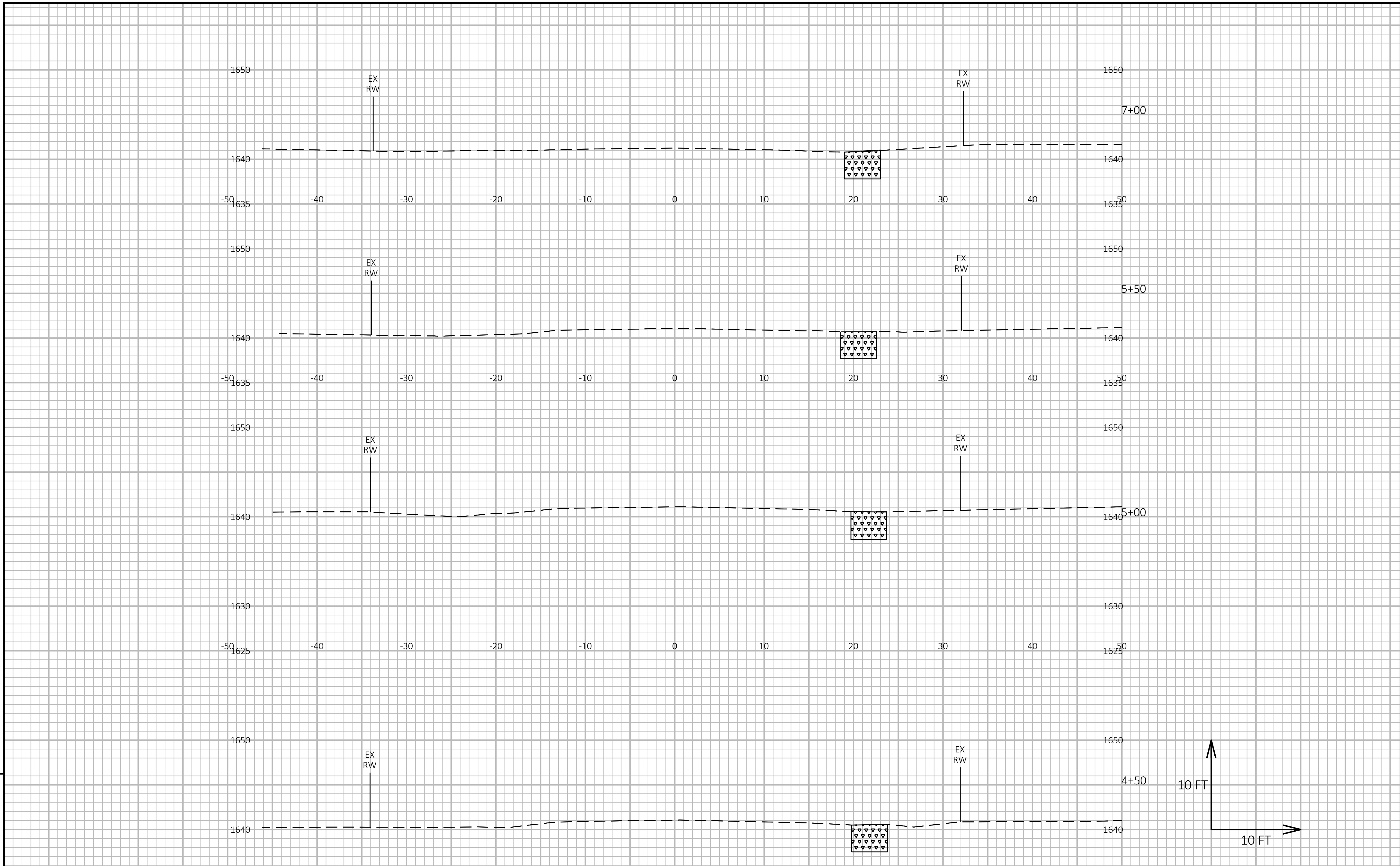
9



9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: RT DITCH INFILTRATION TRENCH INSTALLATION	SHEET 122	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - D1
PLOT DATE : 5/25/2023 4:01 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

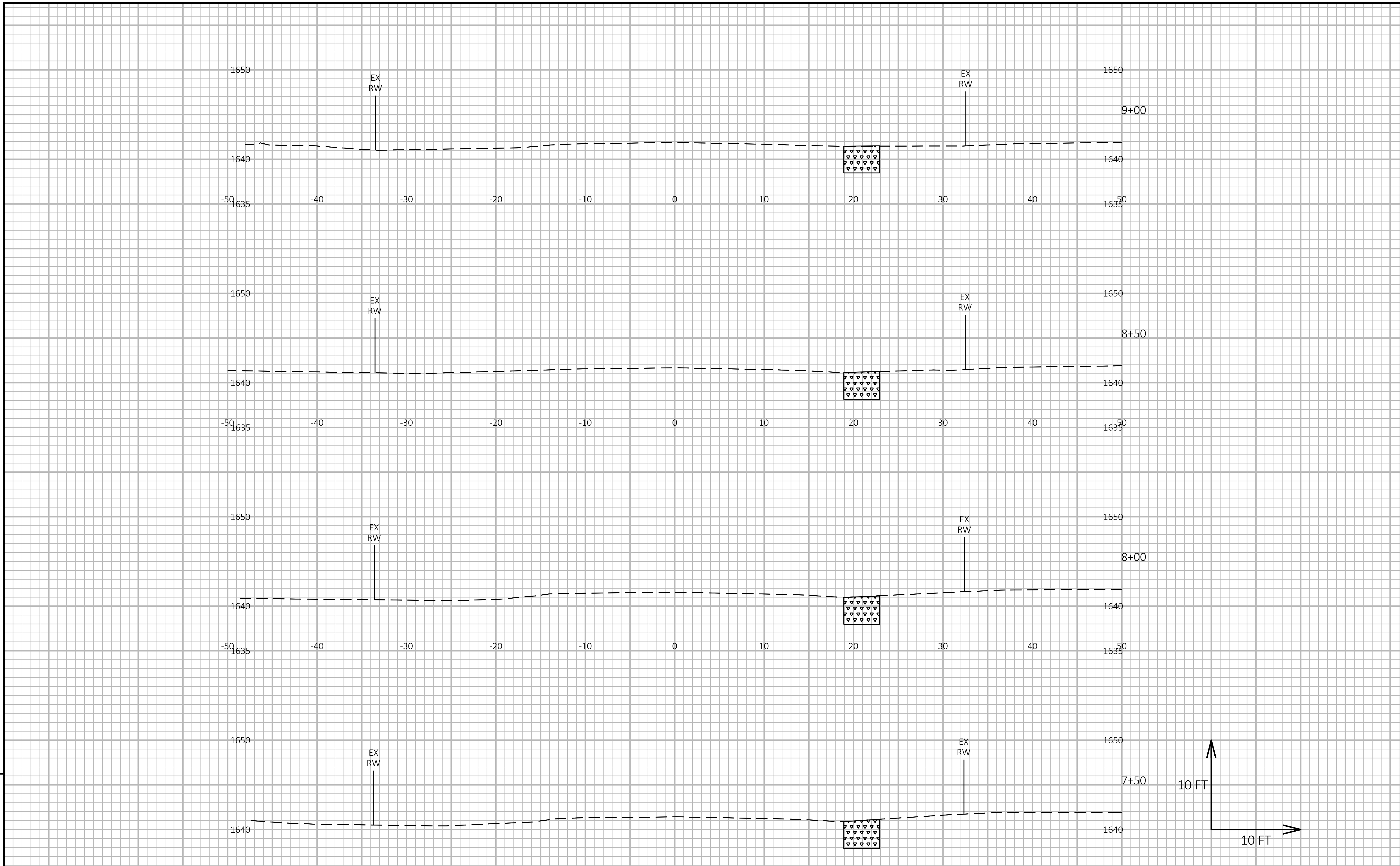


9

9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: RT DITCH INFILTRATION TRENCH INSTALLATION	SHEET 123	E

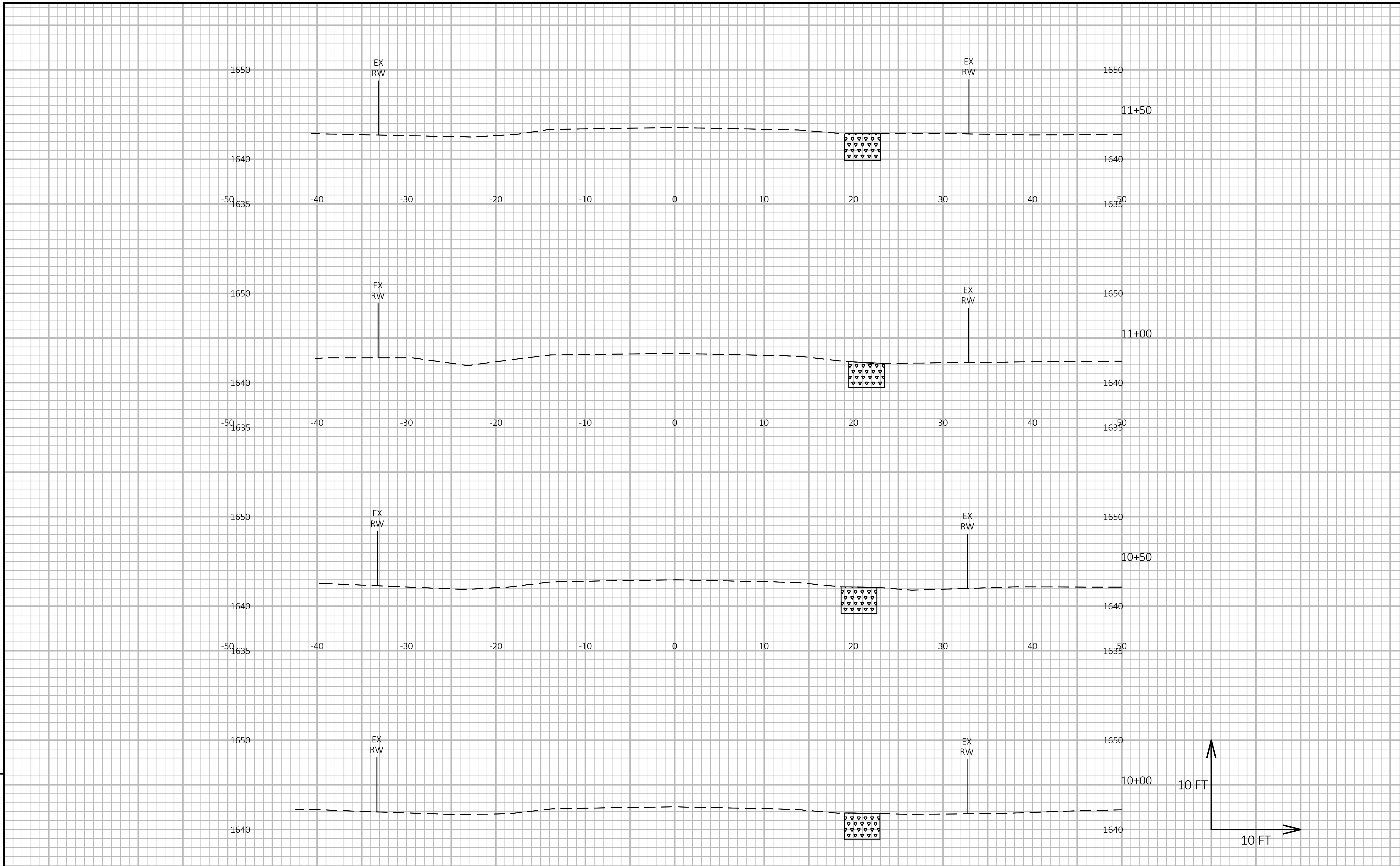
FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - D2
PLOT DATE : 5/25/2023 4:01 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: RT DITCH INFILTRATION TRENCH INSTALLATION	SHEET 124	E

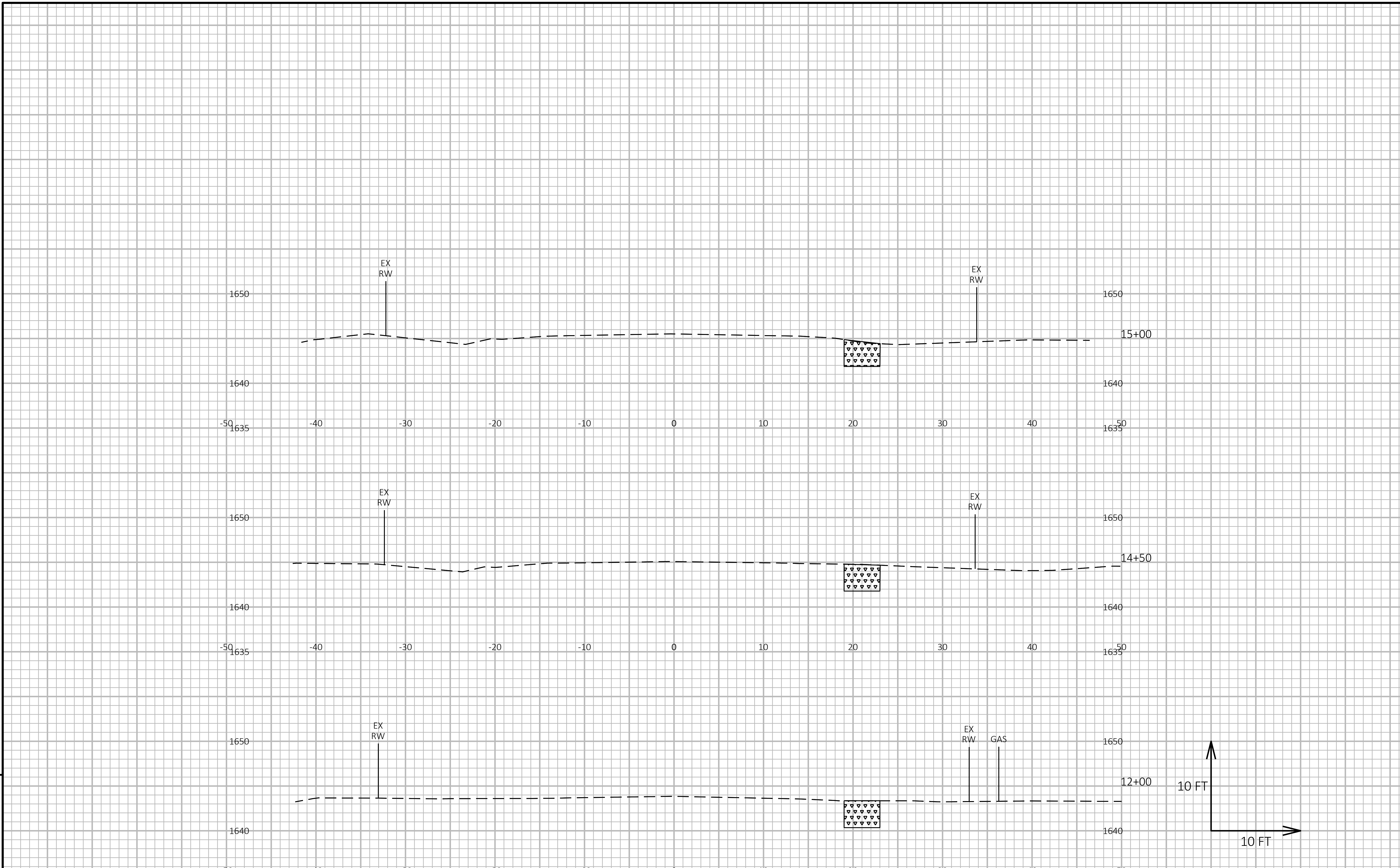


9

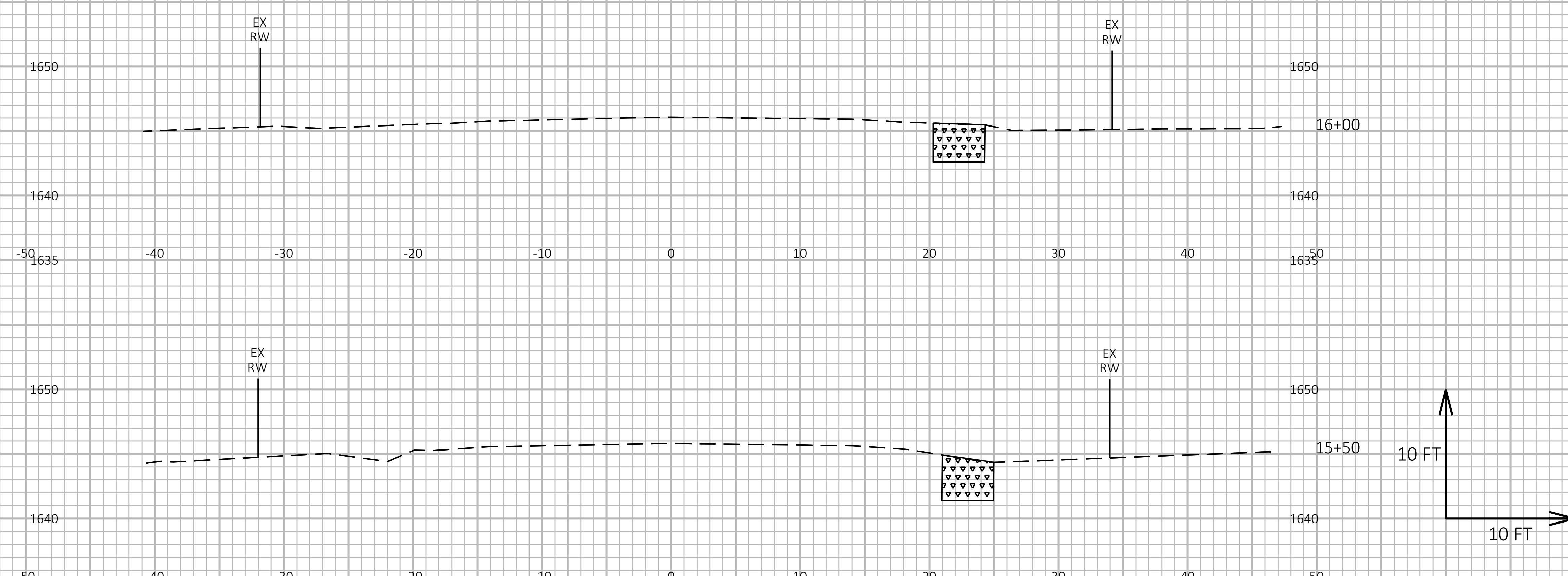
9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: RT DITCH INFILTRATION TRENCH INSTALLATION	SHEET 125 E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - D4
PLOT DATE : 5/25/2023 4:01 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: RT DITCH INFILTRATION TRENCH INSTALLATION	SHEET 126	E



9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: RT DITCH INFILTRATION TRENCH INSTALLATION	SHEET 127 E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - D6
PLOT DATE : 5/25/2023 4:02 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: STH 155 RT DITCH GRADING, SHAPING AND FINISHING	SHEET 128	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - D7

PLOT DATE : 5/25/2023 4:02 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

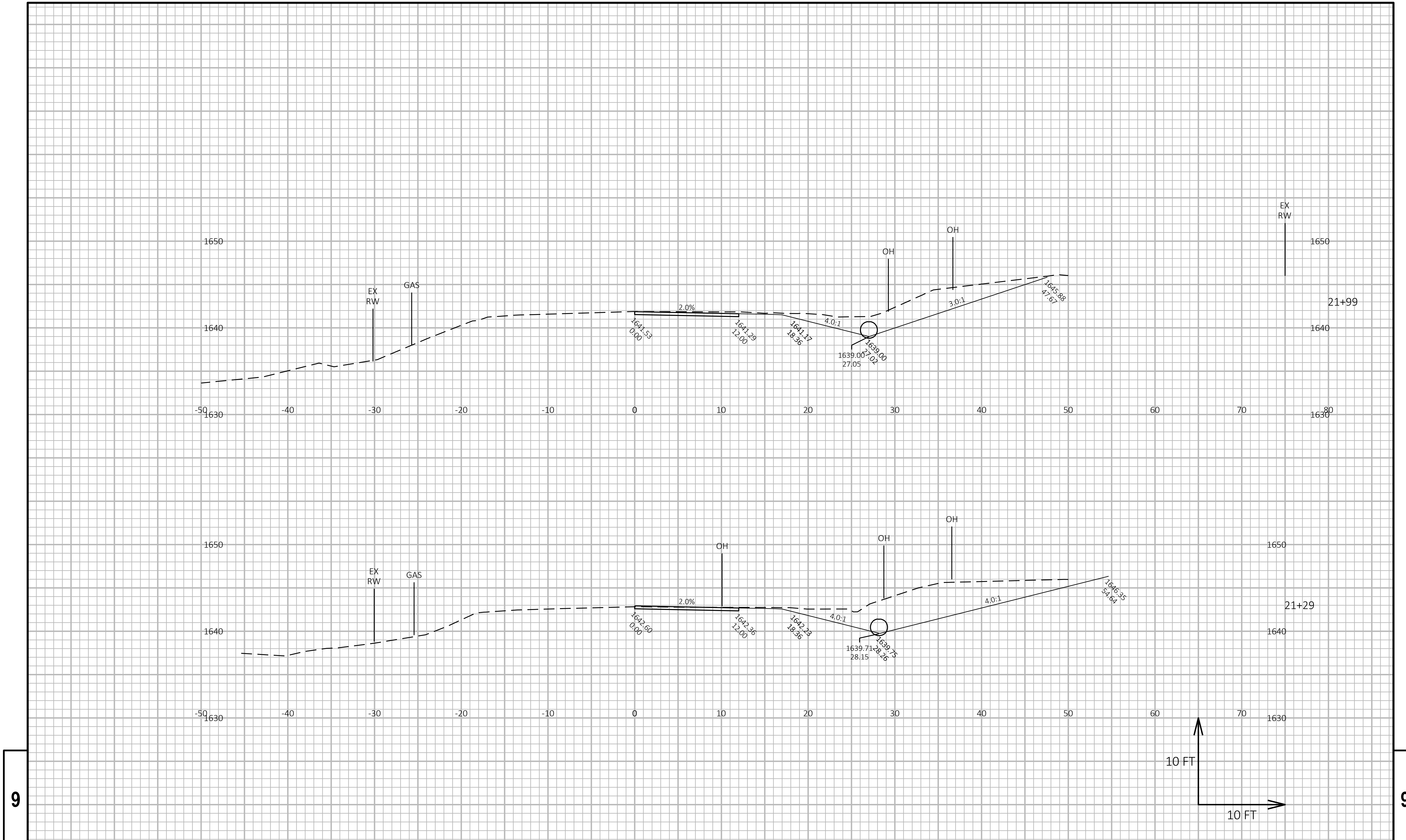
WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: STH 155 RT DITCH GRADING, SHAPING AND FINISHING	SHEET 129	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - D8
PLOT DATE : 5/25/2023 4:02 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

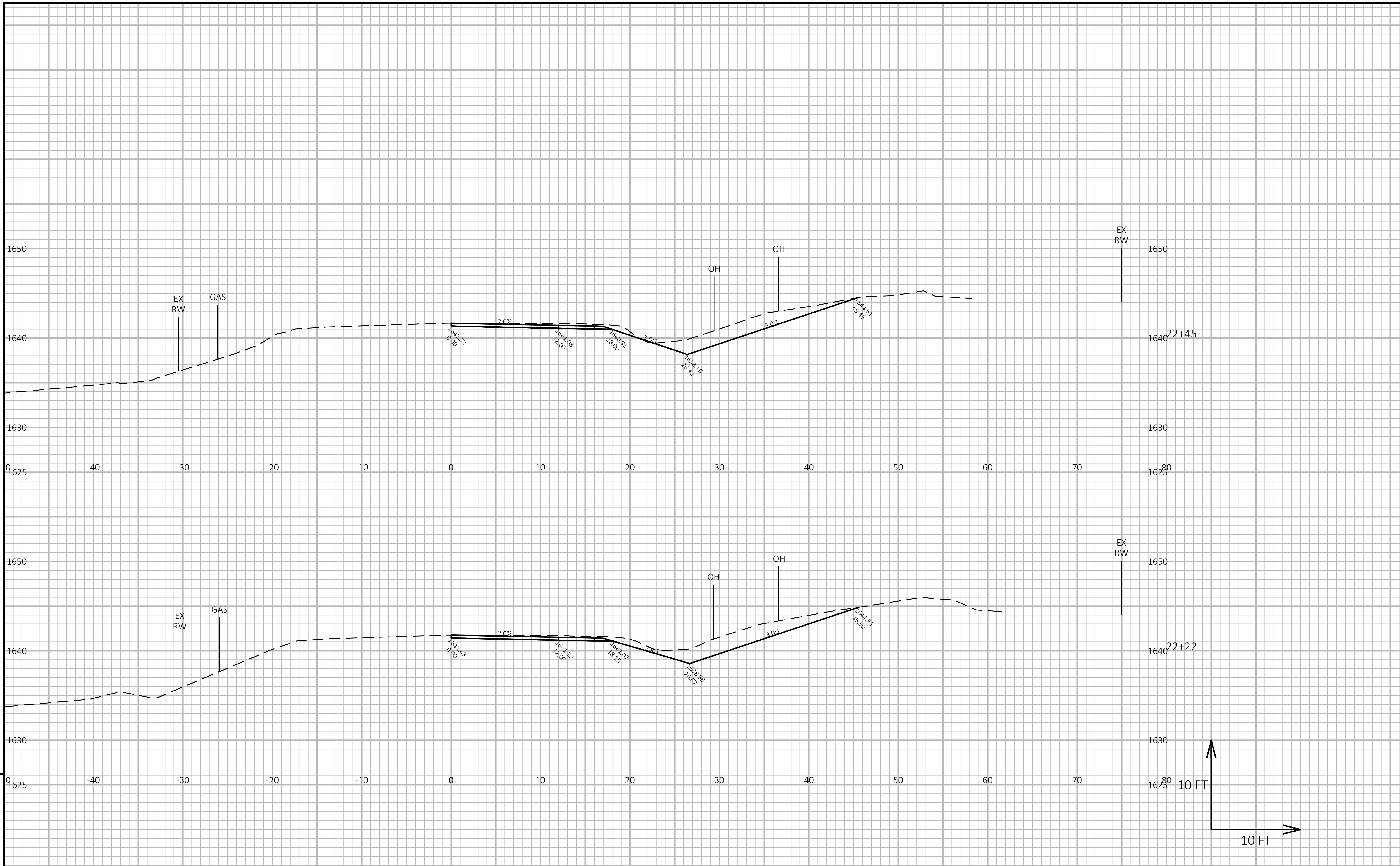


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: HEMLOCK LANE 18-INCH RCP CLASS IV CULVERT REPLACEMENT	SHEET 130	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - Hemlock Ln Culv

PLOT DATE : 5/25/2023 4:02 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

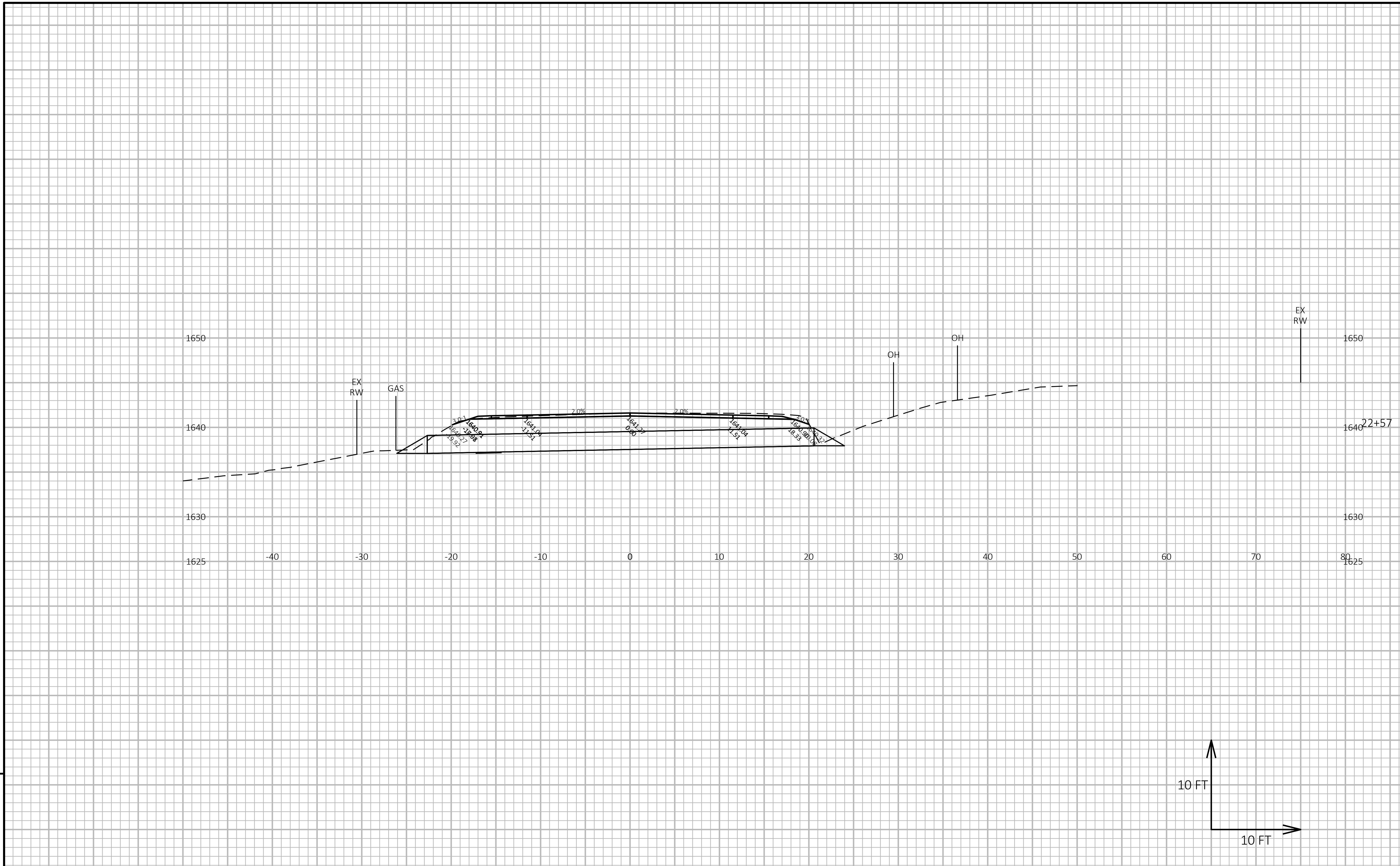
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: STH 155 RT DITCH GRADING, SHAPING AND FINISHING	SHEET 131	E

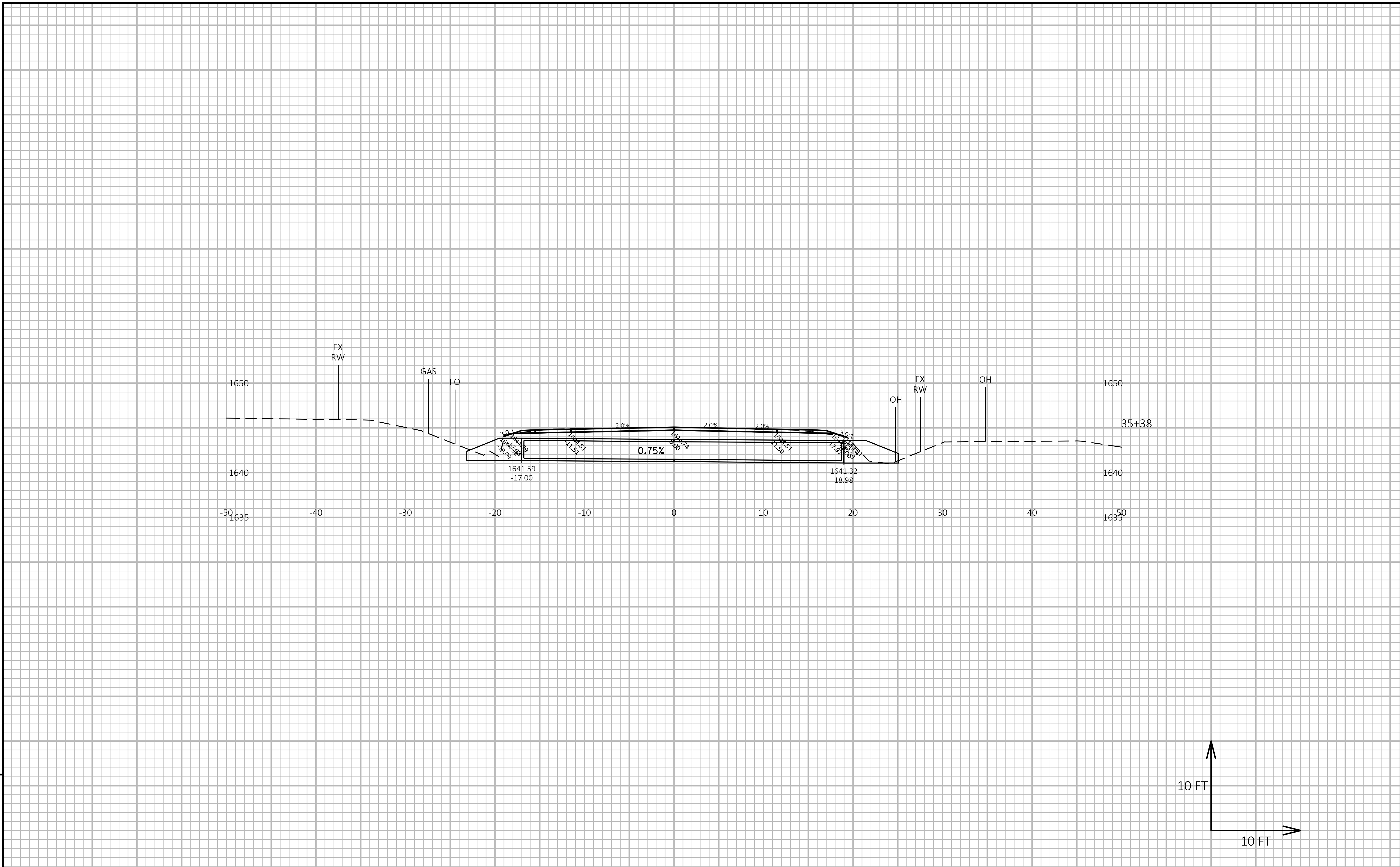


9

9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 62-155-004215 ENDWALLS INSTALLATION	SHEET 132	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - C-4215
PLOT DATE : 5/25/2023 4:03 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

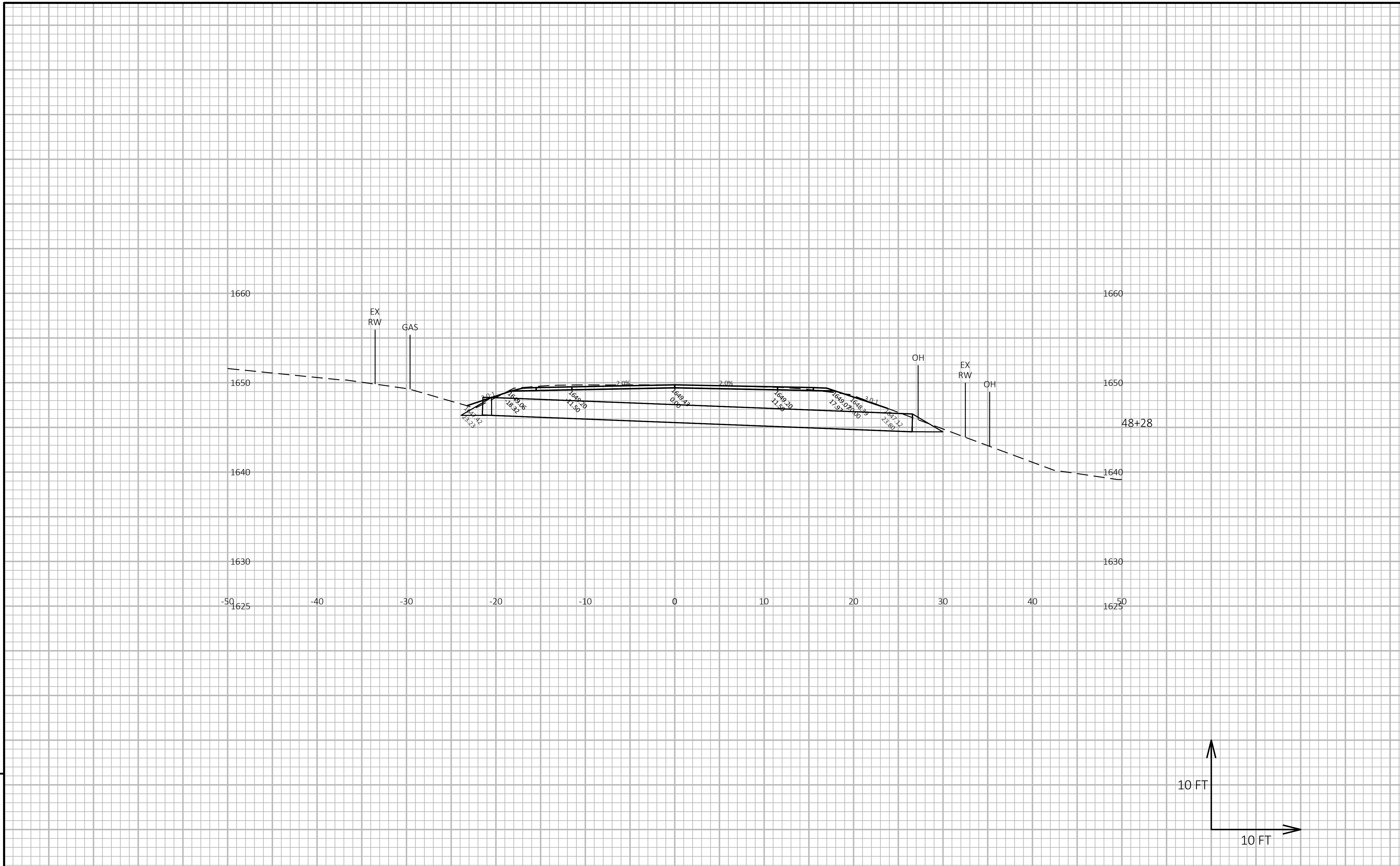


9

9

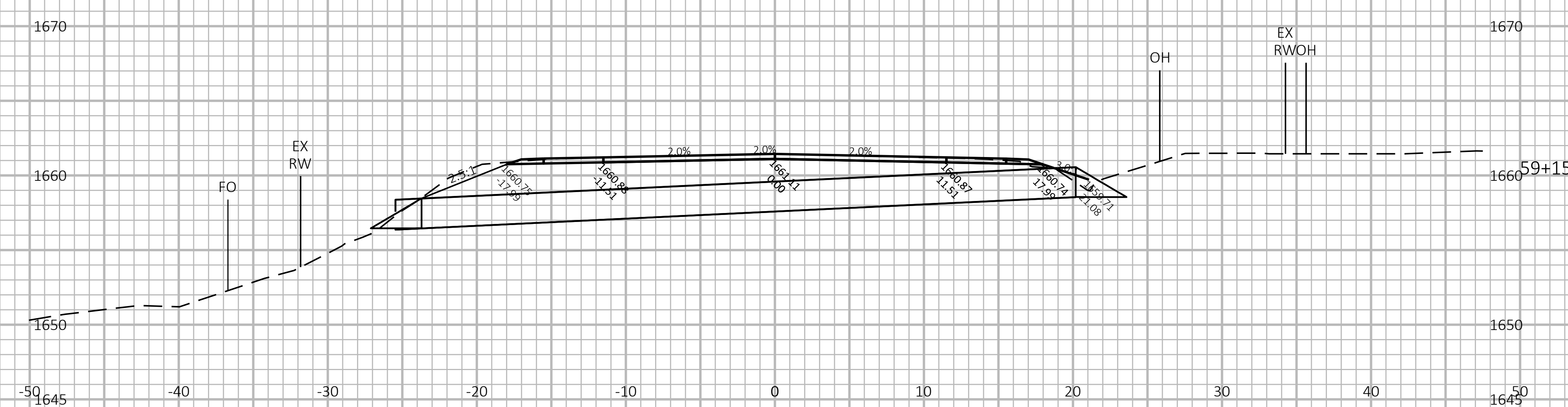
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 62-155-004216 REPLACEMENT	SHEET 133	E

9



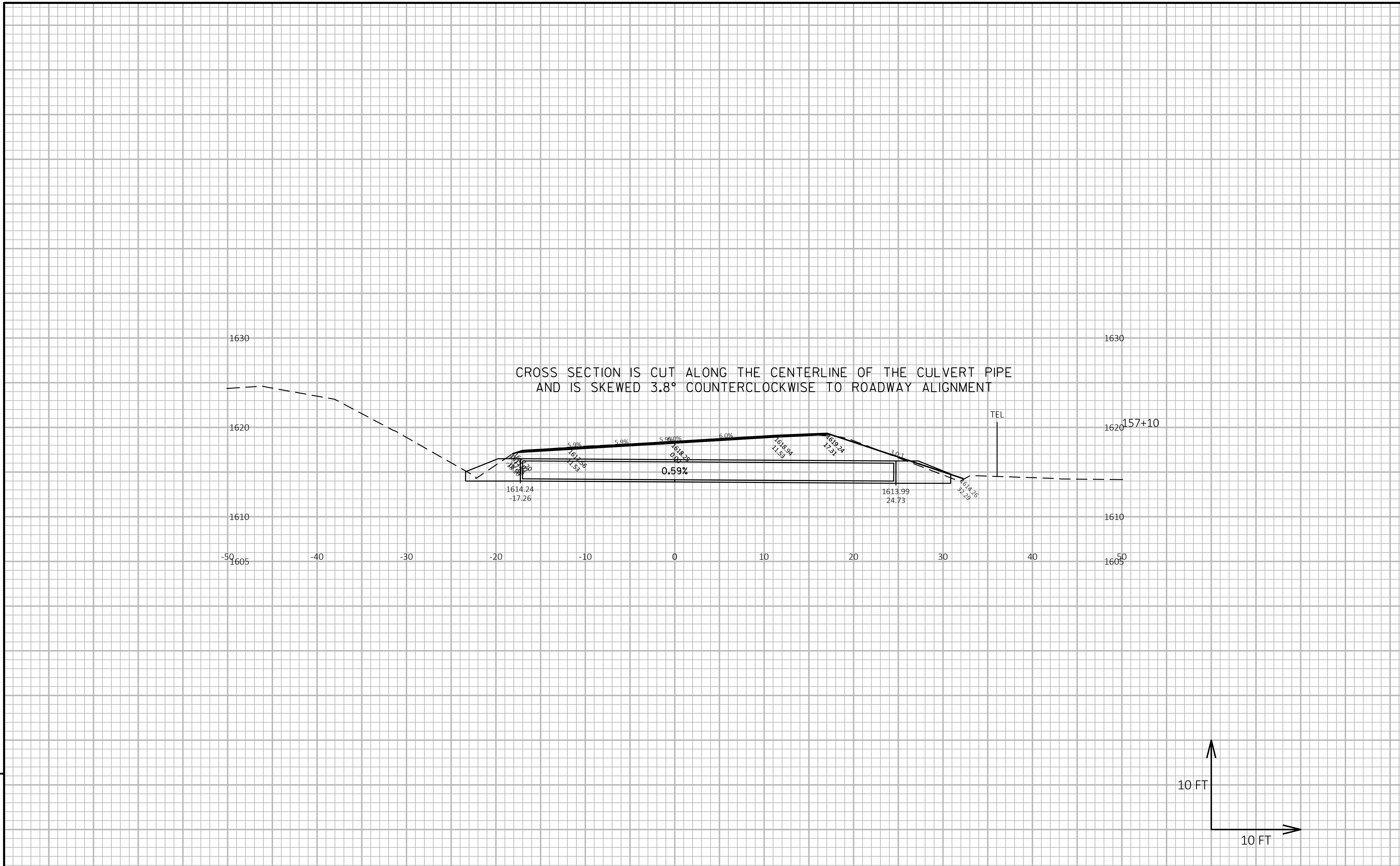
9

PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 62-155-004217 ENDWALLS INSTALLATION	SHEET 134	E



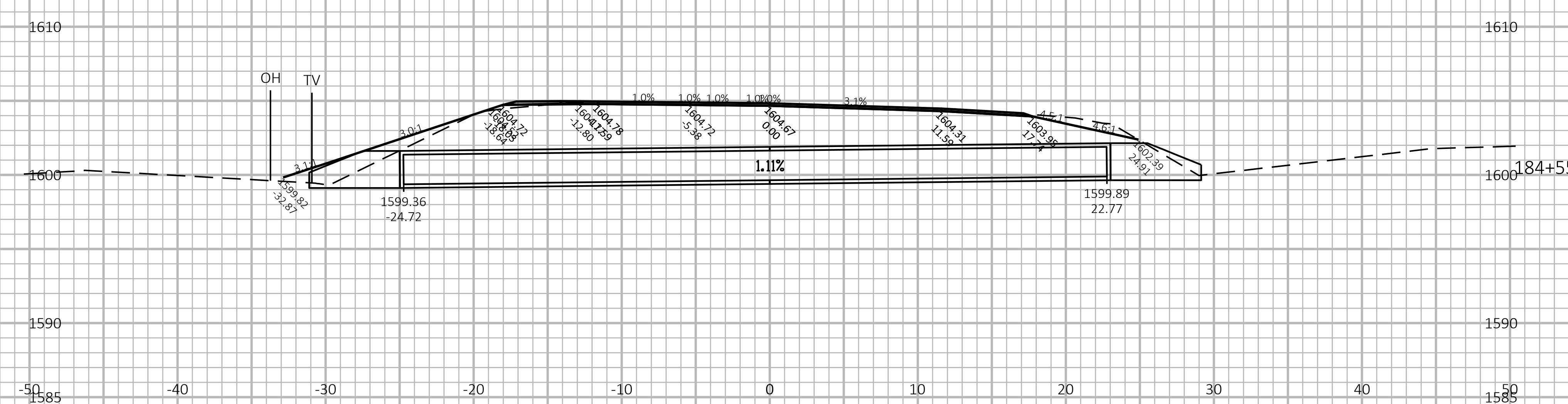
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 62-155-004218 ENDWALLS INSTALLATION	SHEET 135	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - C-4218
PLOT DATE : 5/25/2023 4:03 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

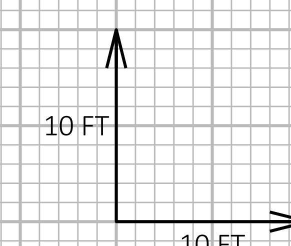


PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 62-155-004220 REPLACEMENT	SHEET 136	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - C-4220
PLOT DATE : 5/25/2023 4:03 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



CROSS SECTION IS CUT ALONG THE CENTERLINE OF THE CULVERT PIPE
AND IS SKEWED 6.9° CLOCKWISE TO ROADWAY ALIGNMENT



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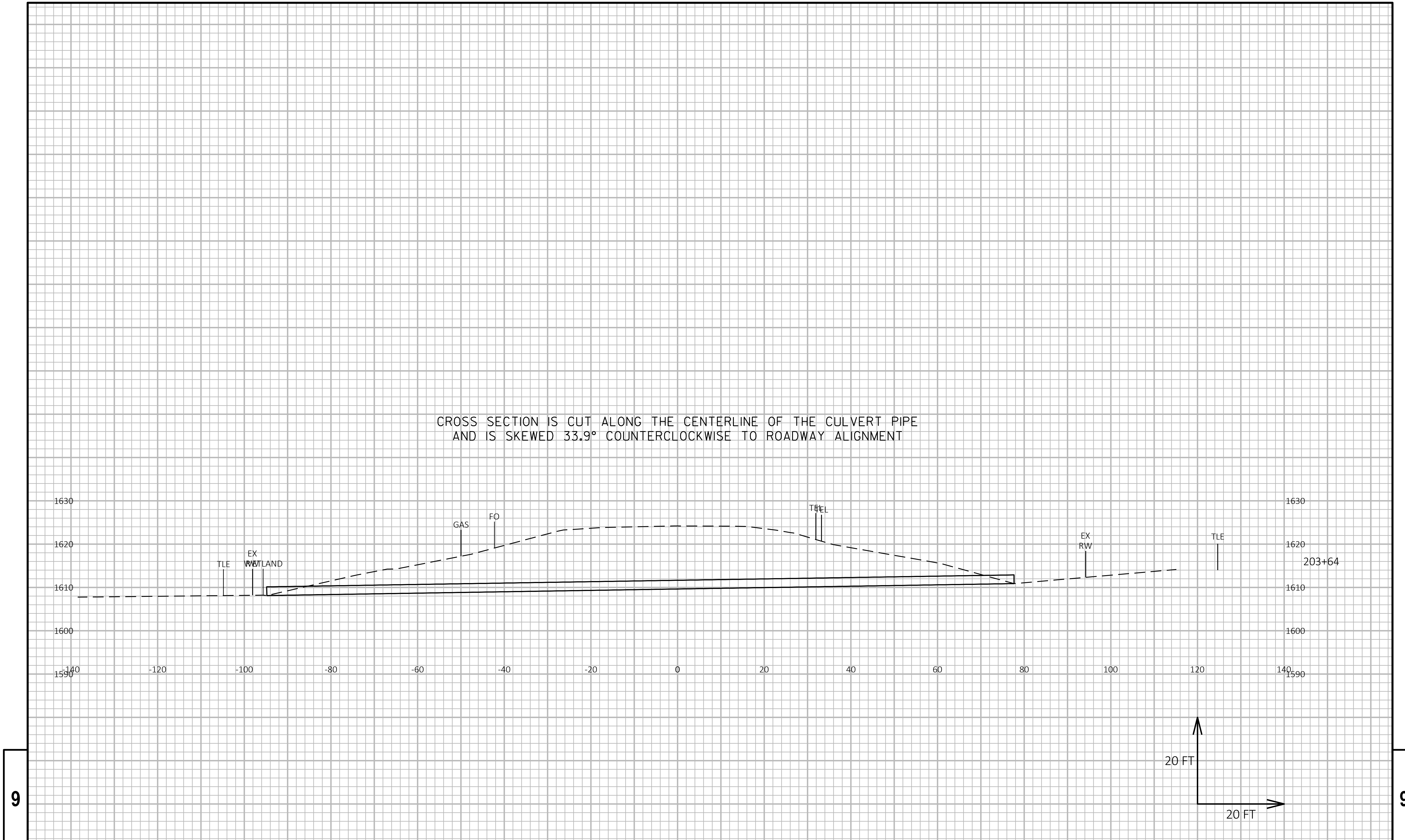
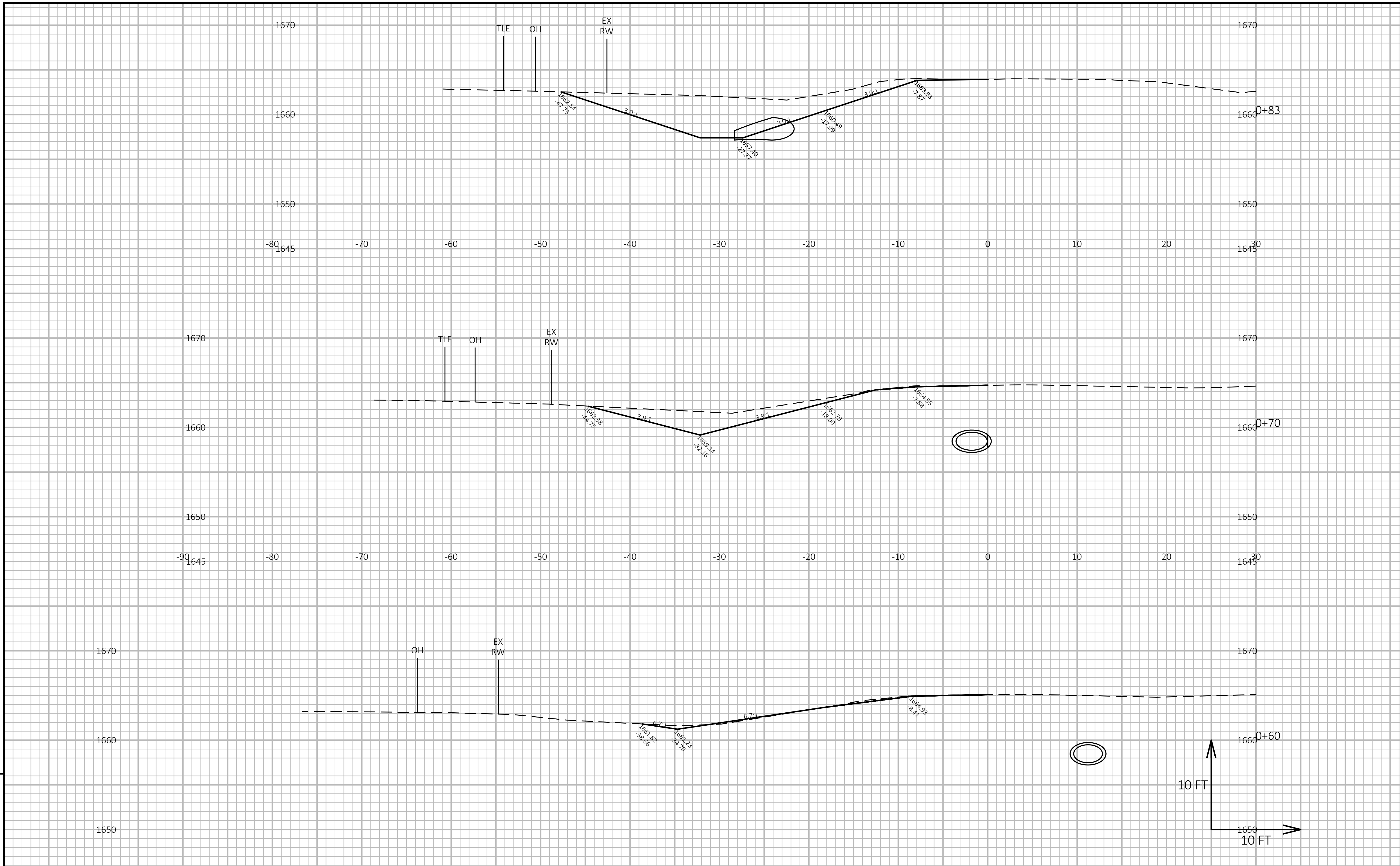
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 62-155-004221 REPLACEMENT	SHEET 137	E



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 62-155-004223 HDPE PIPE LINER	SHEET 138	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - C-4223
PLOT DATE : 5/25/2023 4:04 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: LOLLYCOOGAN LANE LT DITCH / CULVERT 62-155-004224 OUTLET	SHEET 139	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - Lolly Ln Ditch 1

PLOT DATE : 5/25/2023 4:04 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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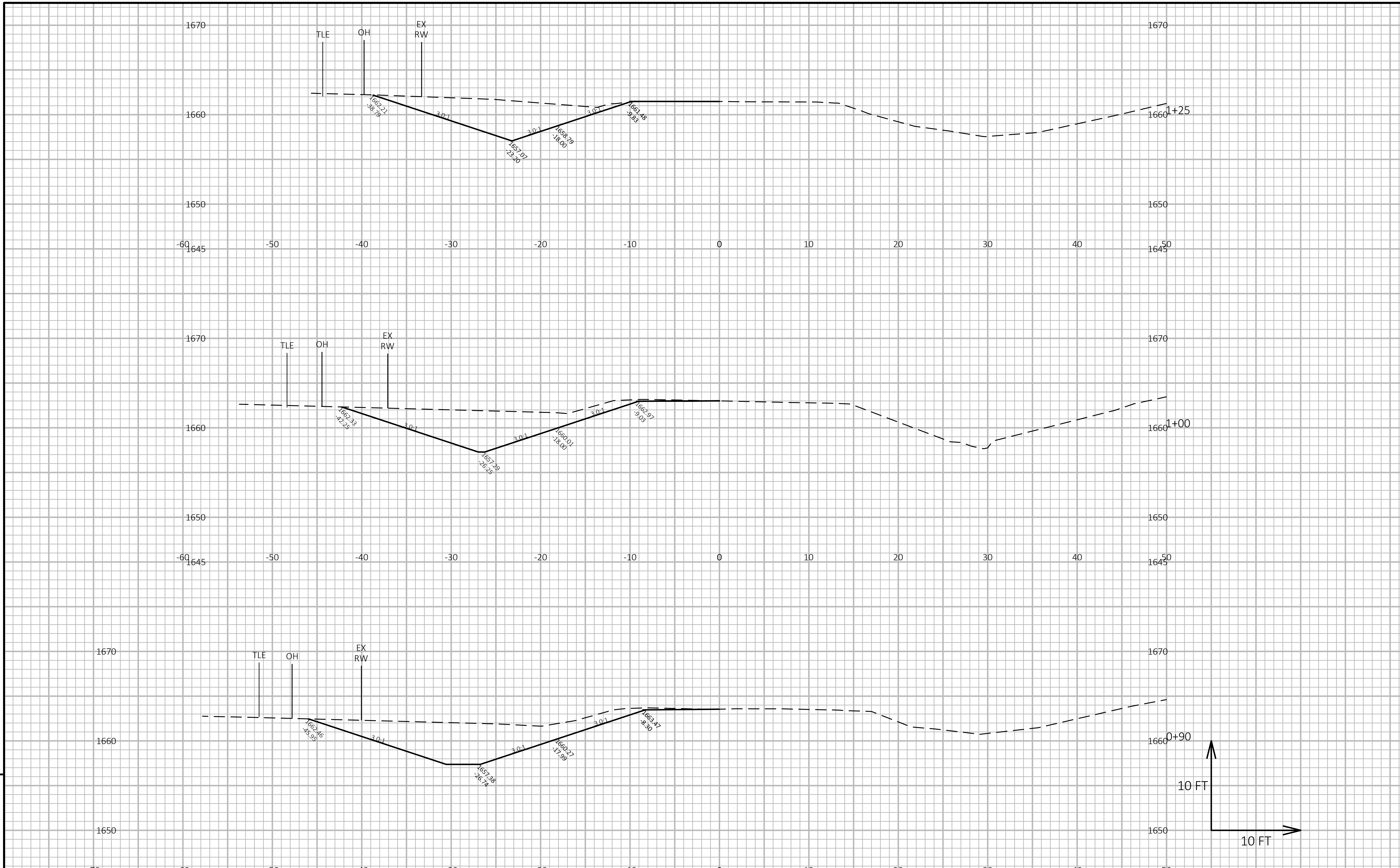

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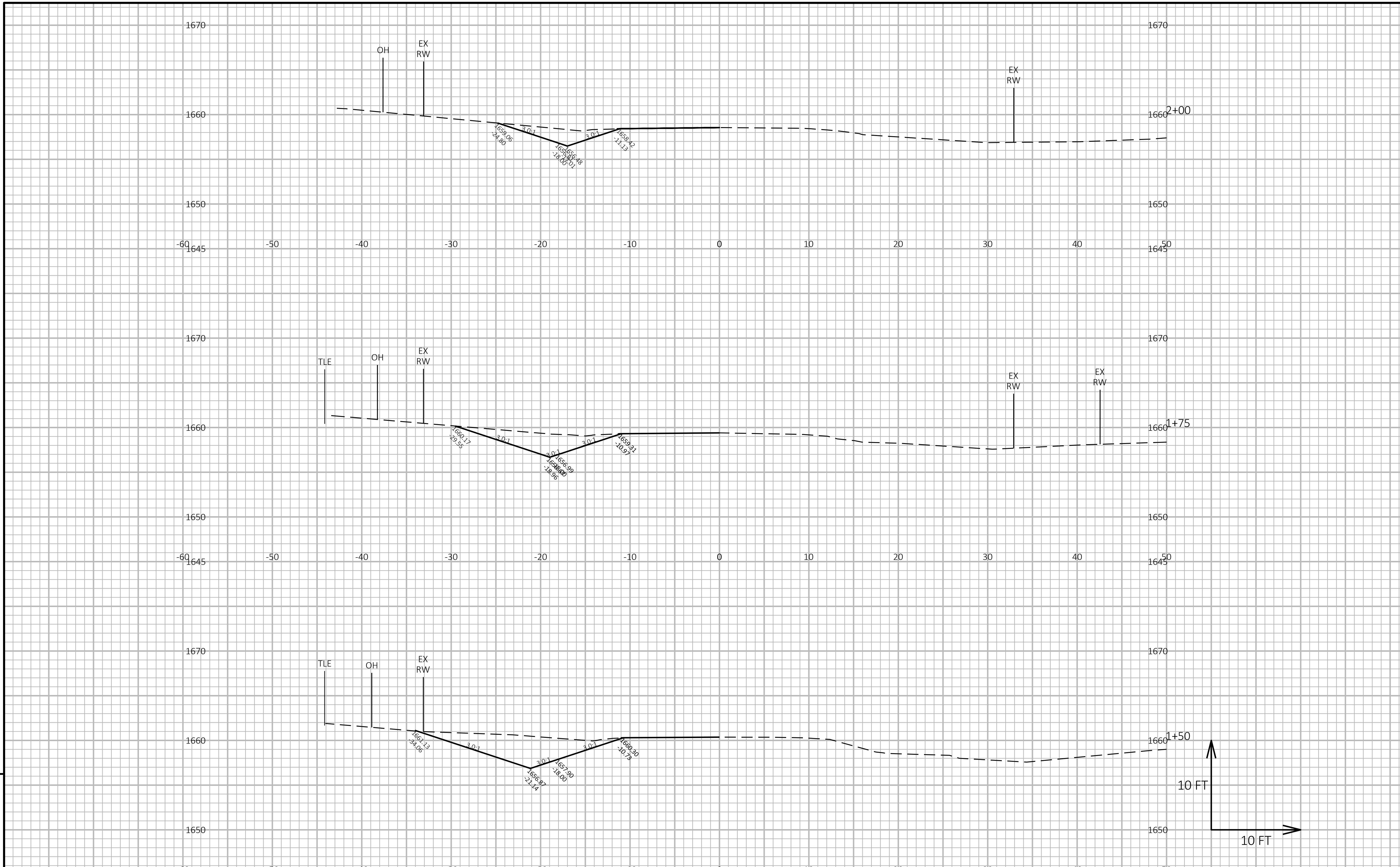
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: LOLLYCOOGAN LANE LT DITCH	SHEET 140	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - Lolly Ln Ditch 2

PLOT DATE : 5/25/2023 4:04 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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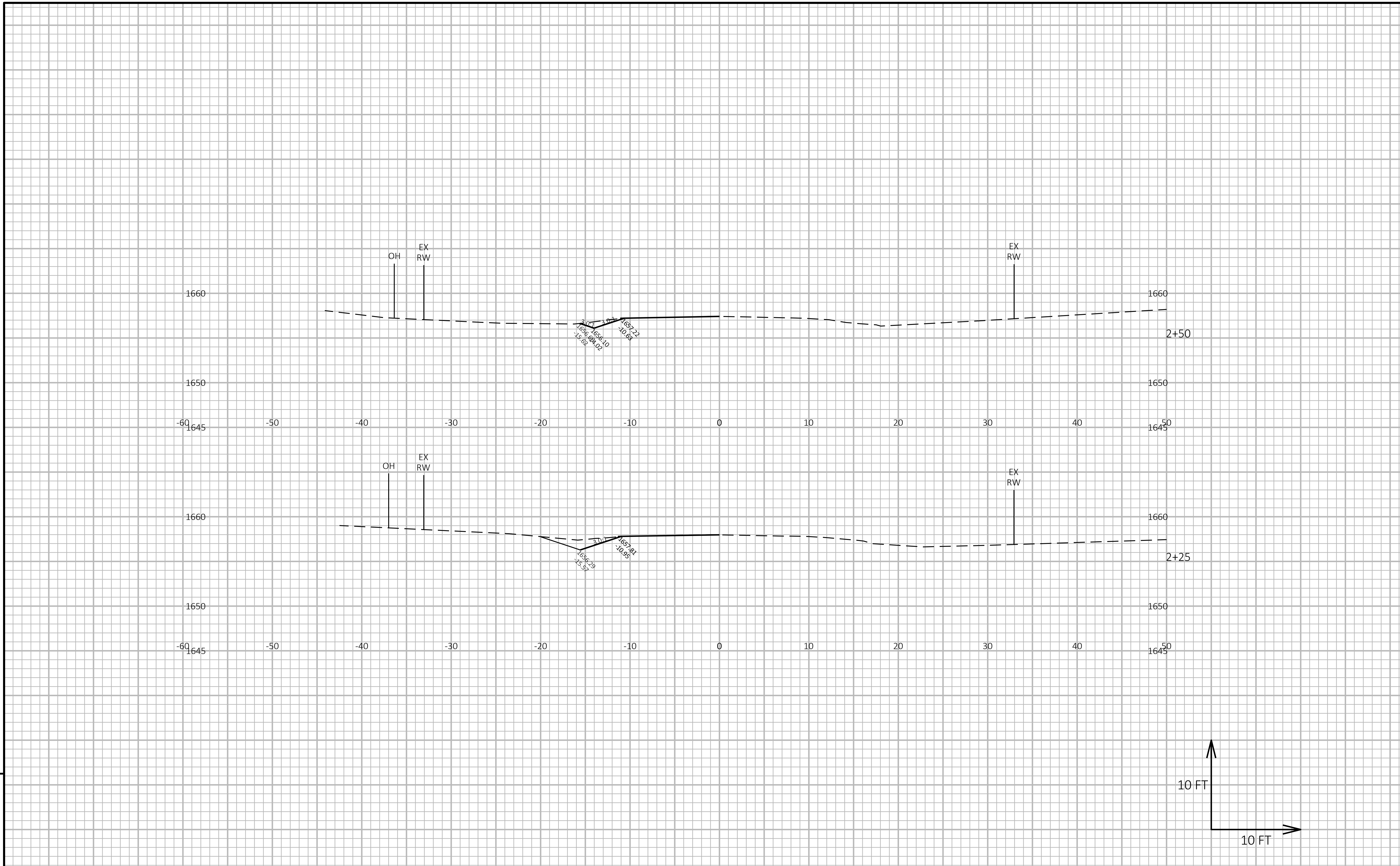
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: LOLLYCOOGAN LANE LT DITCH	SHEET 141	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - Lolly Ln Ditch 3

PLOT DATE : 5/25/2023 4:04 PM   PLOT BY : MAVES, EVAN A   PLOT NAME :   PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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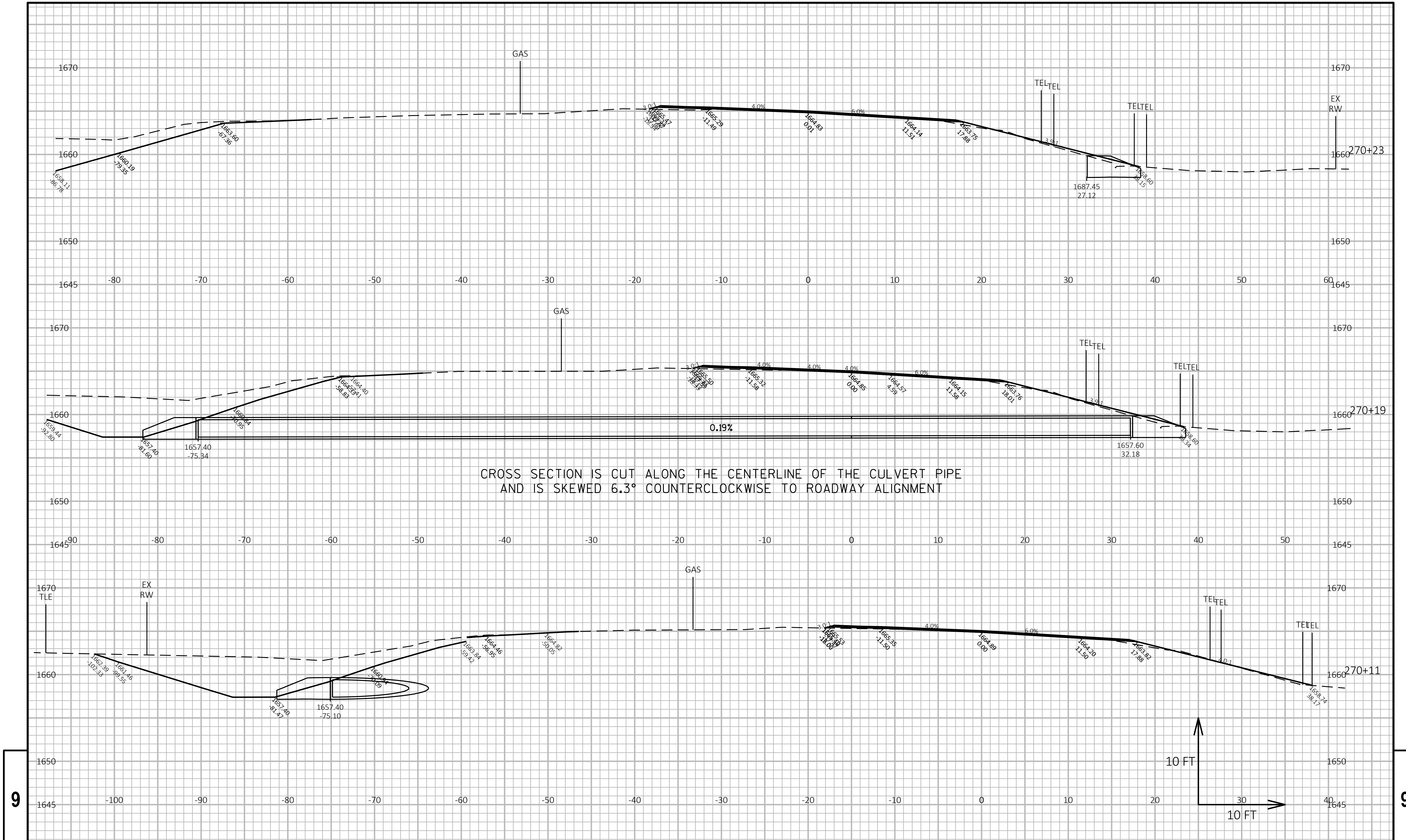
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: LOLLYCOOGAN LANE LT DITCH	SHEET 142	E

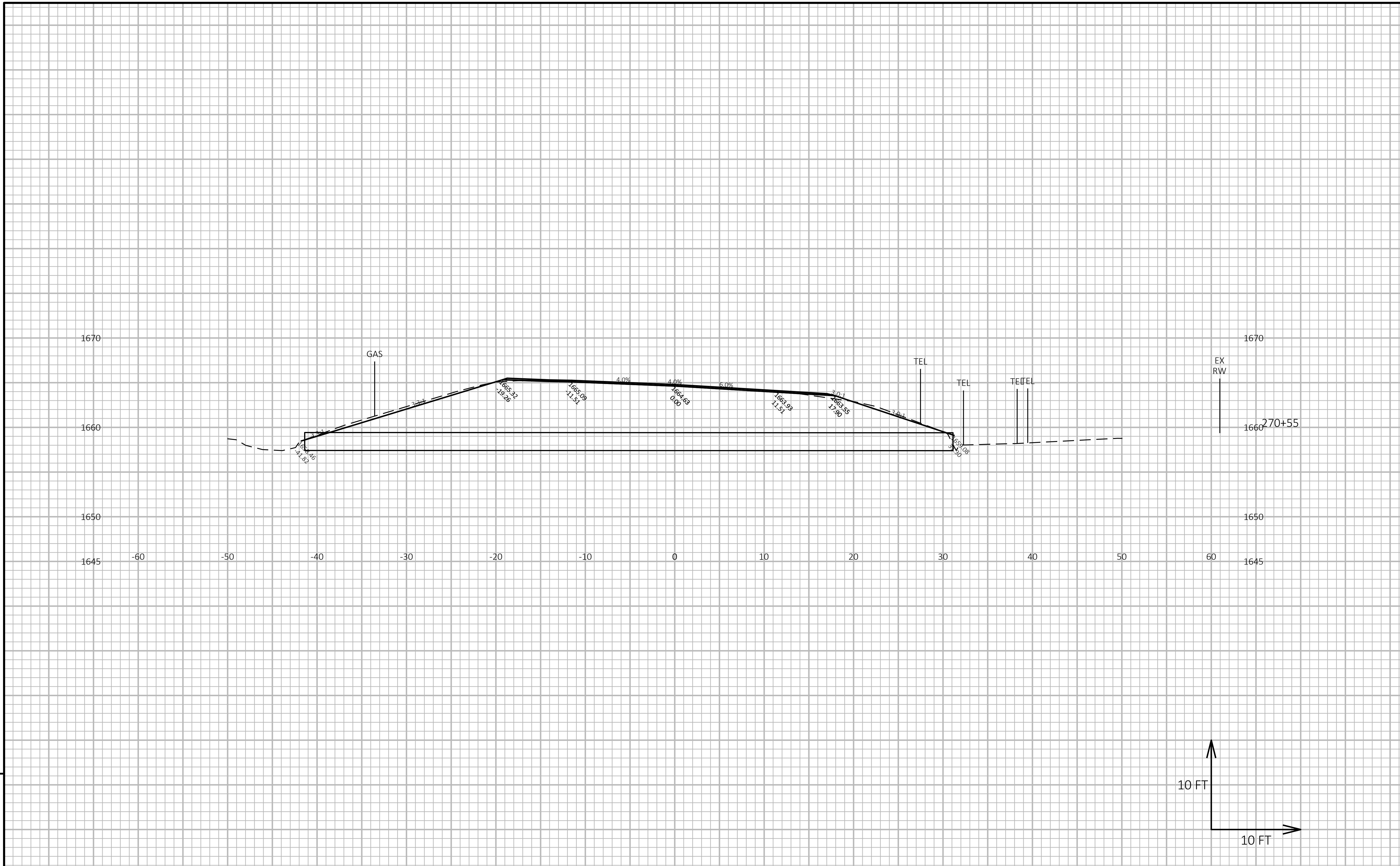
FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - Lolly Ln Ditch 4

PLOT DATE : 5/25/2023 4:05 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 62-155-004224 INSTALLATION	SHEET 143	E



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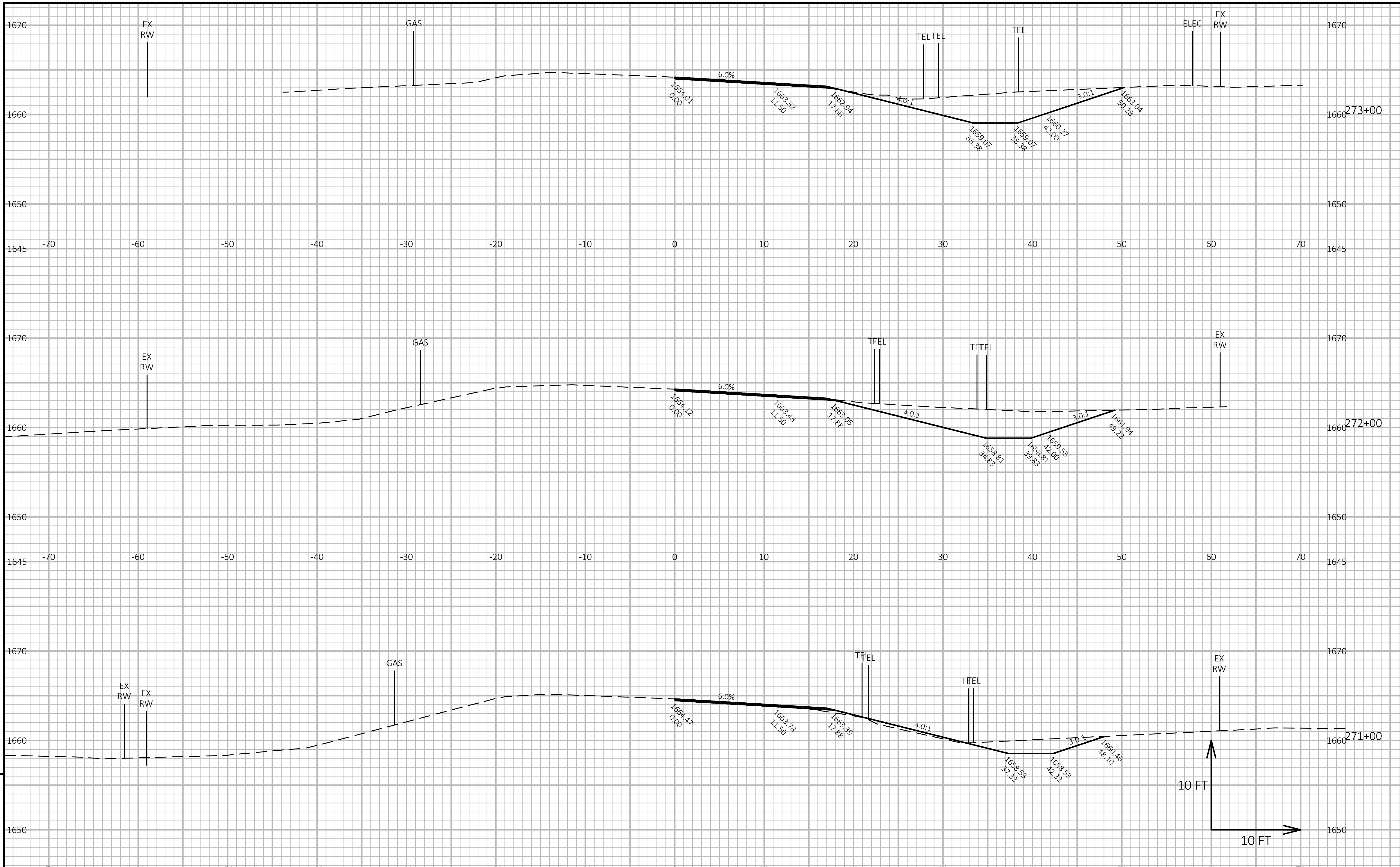
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: EXISTING CULVERT 62-155-004224 REMOVAL	SHEET 144	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - ExC-4224
PLOT DATE : 5/25/2023 4:05 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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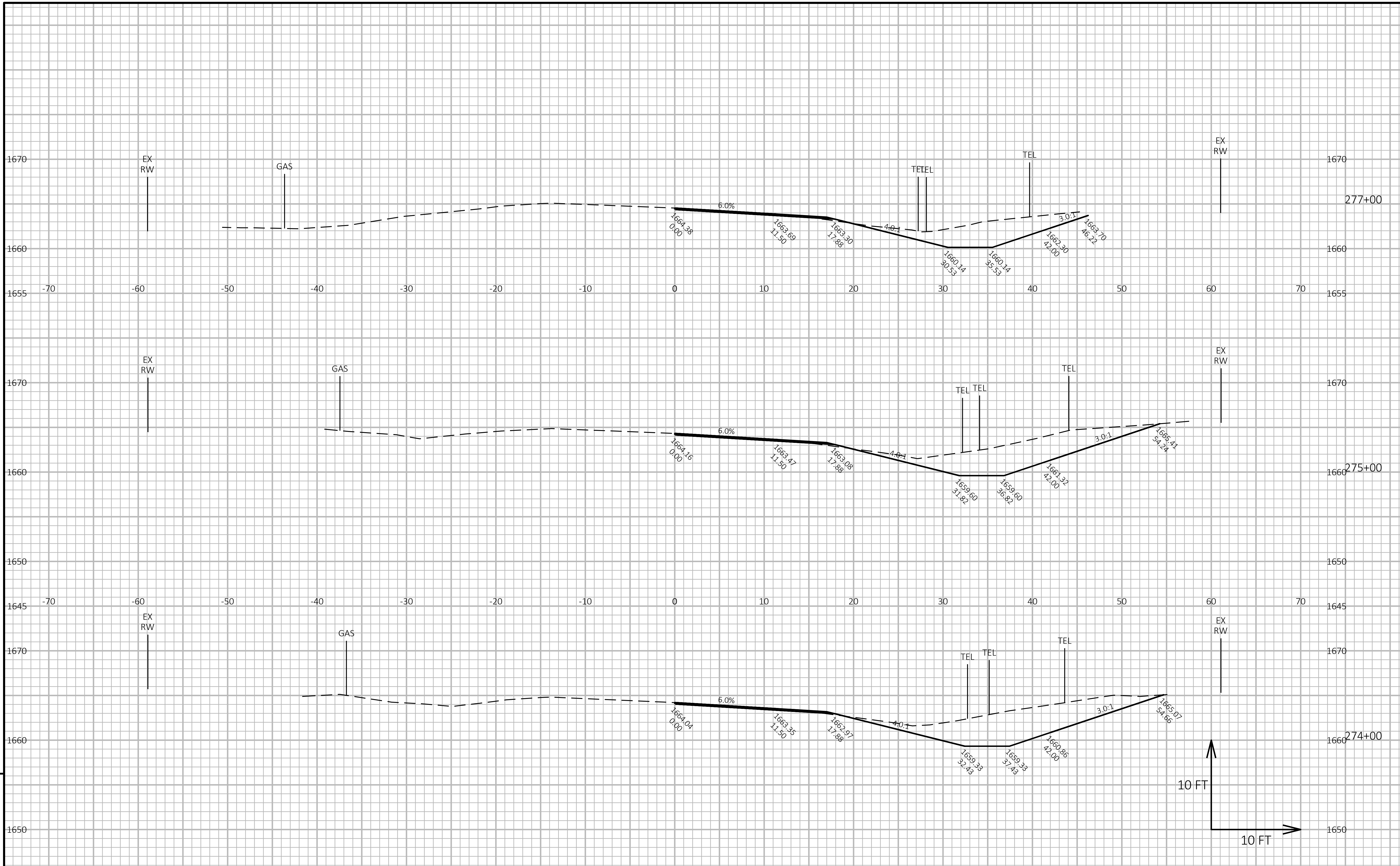
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: RT DITCH GRADING AND SHAPING	SHEET 145	E



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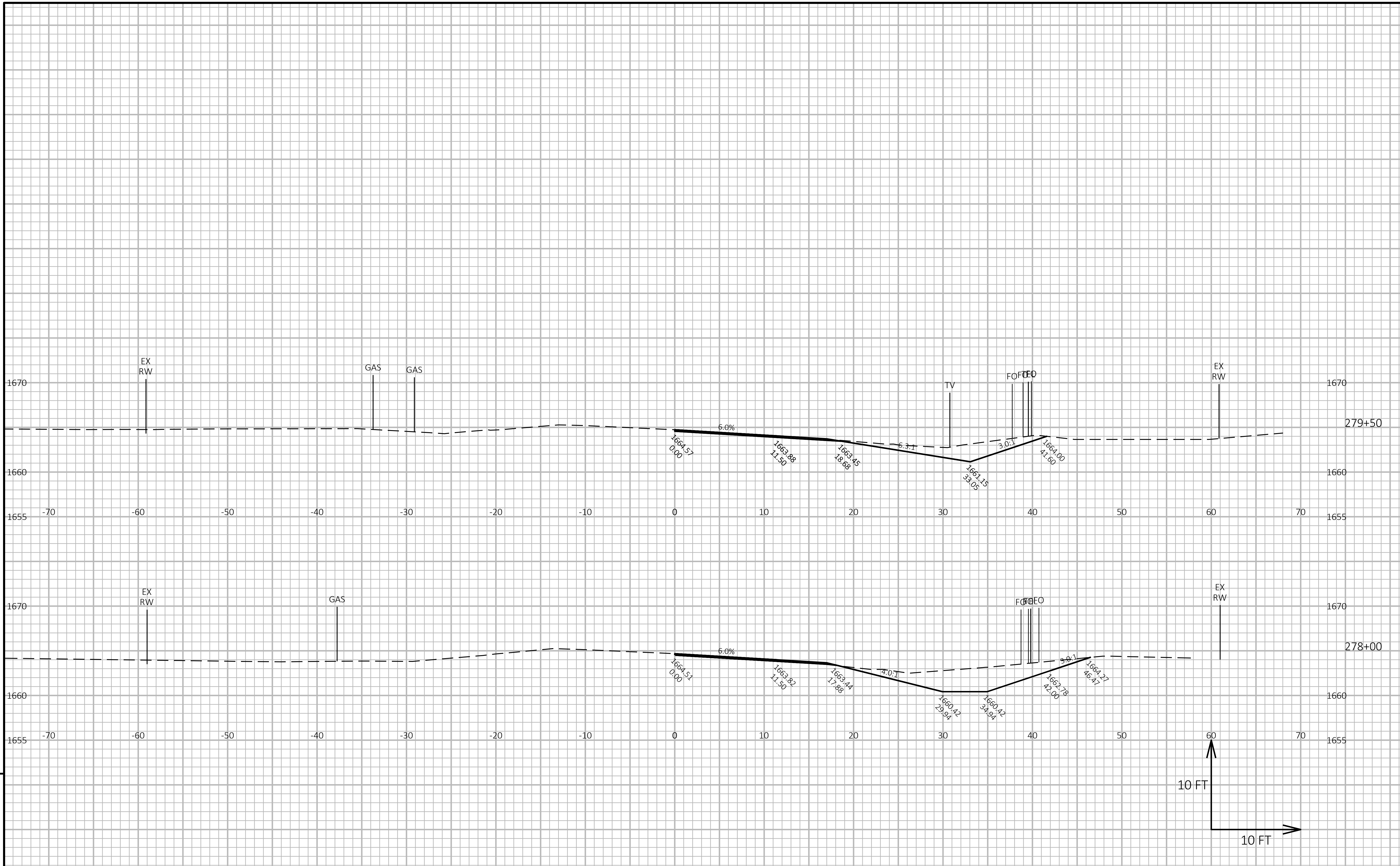
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: RT DITCH GRADING AND SHAPING	SHEET 146	E



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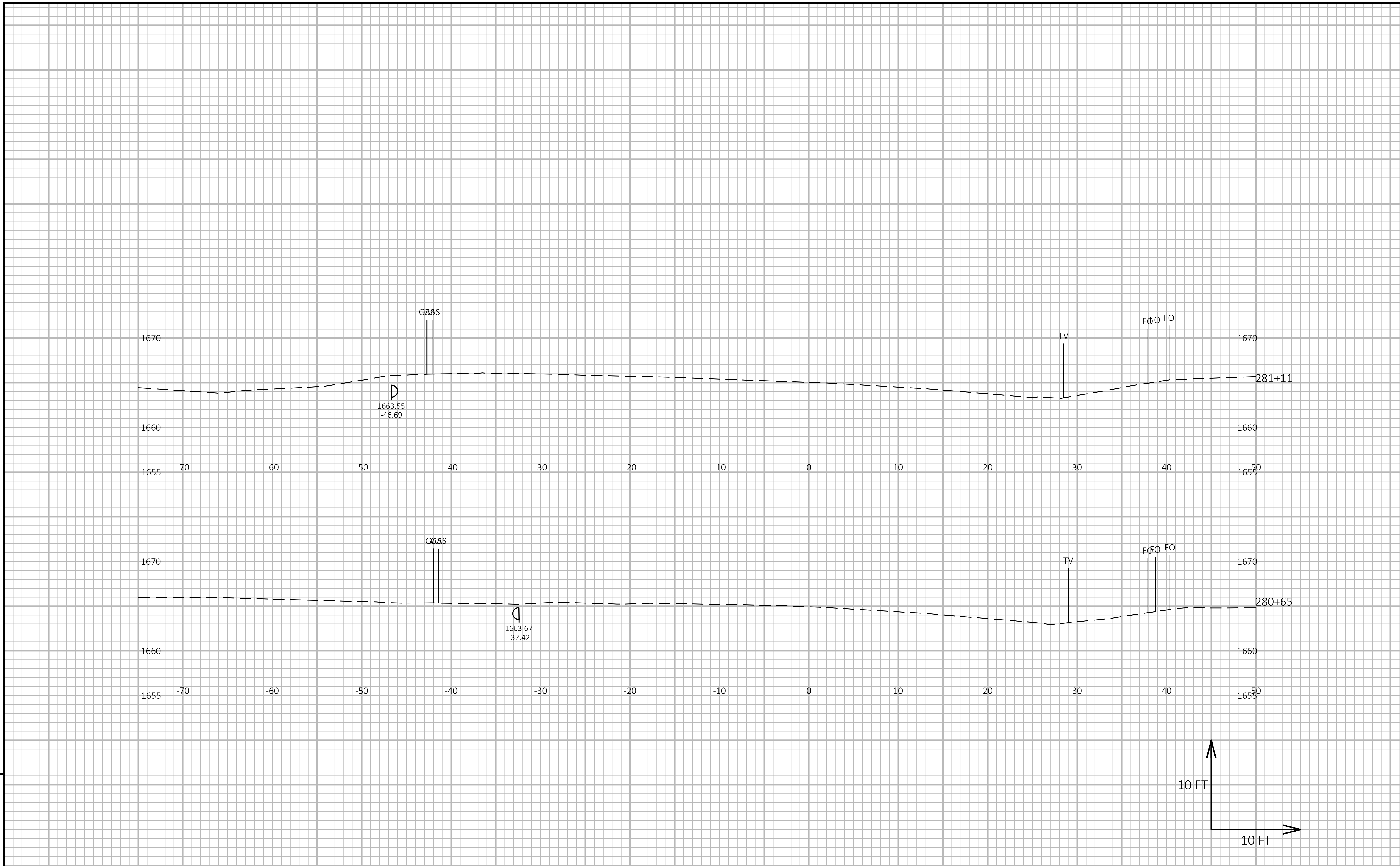
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: RT DITCH GRADING AND SHAPING	SHEET 147	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - RT D 03

PLOT DATE : 5/25/2023 4:06 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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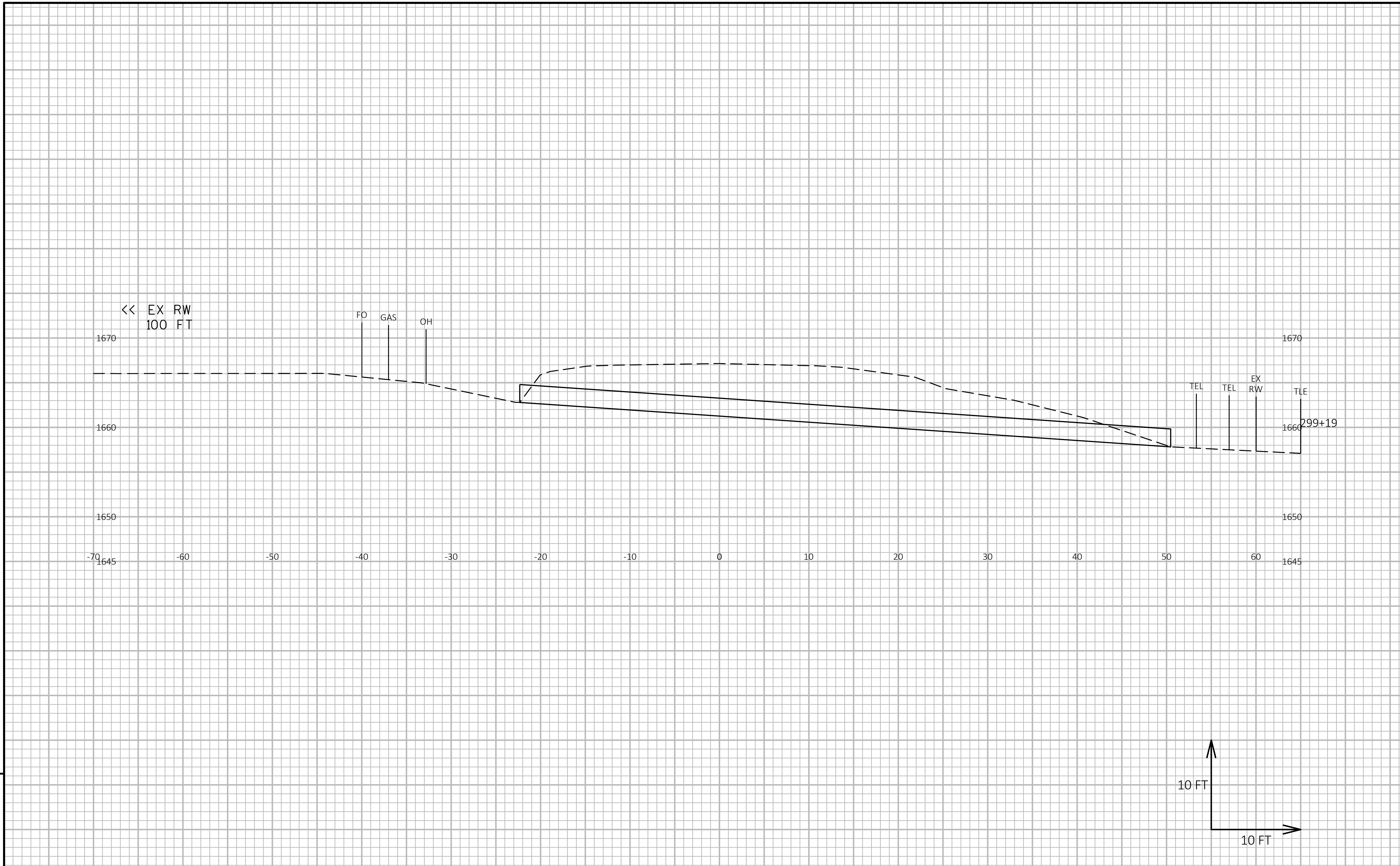
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CTH C 12-INCH RCP CLASS IV CULVERT REPLACEMENT	SHEET 148	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - CTH C Culv

PLOT DATE : 5/25/2023 4:06 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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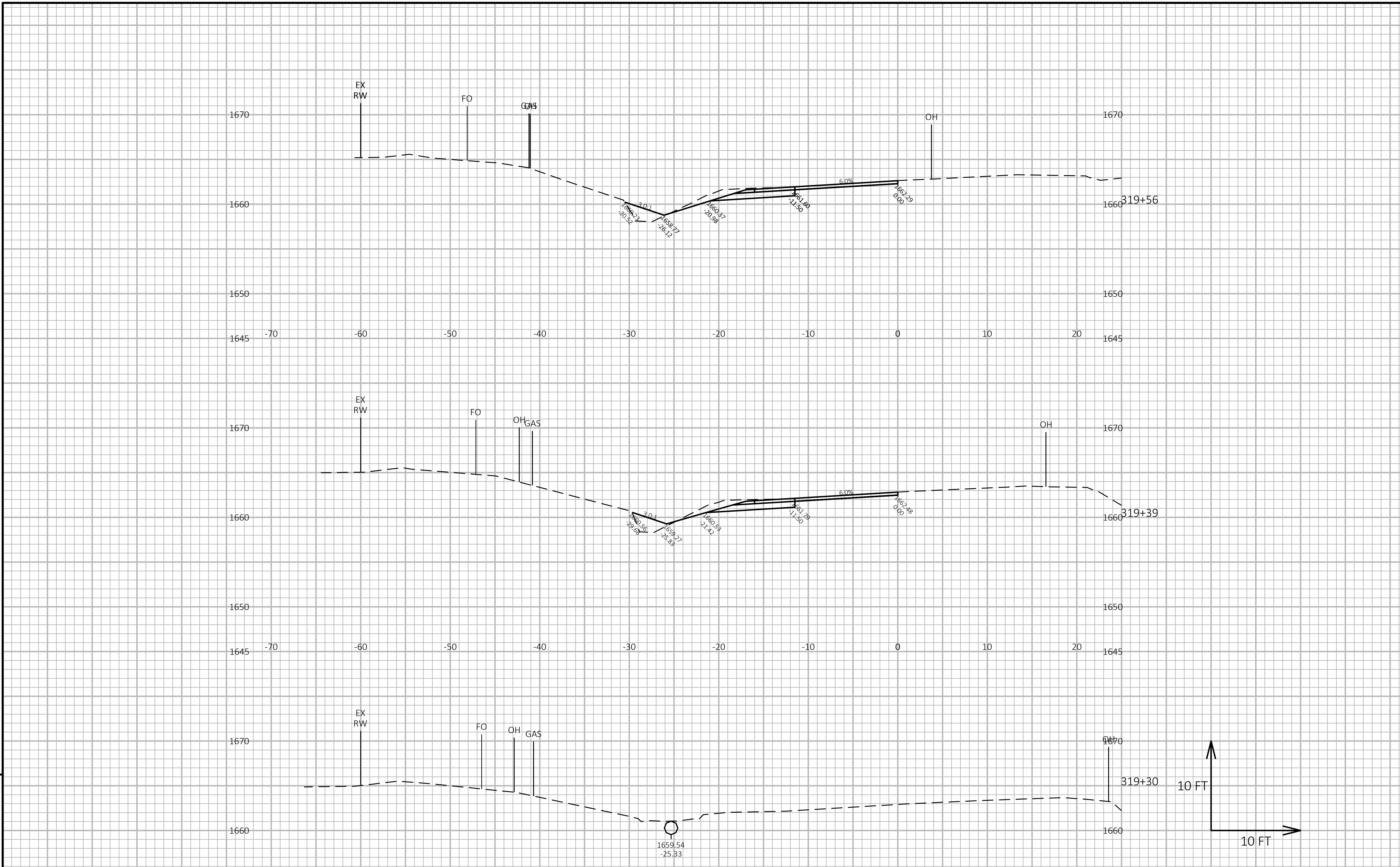
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 62-155-004225 HDPE PIPE LINER	SHEET 149	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - C-4225
PLOT DATE : 5/25/2023 4:06 PM
PLOT BY : MAVES, EVAN A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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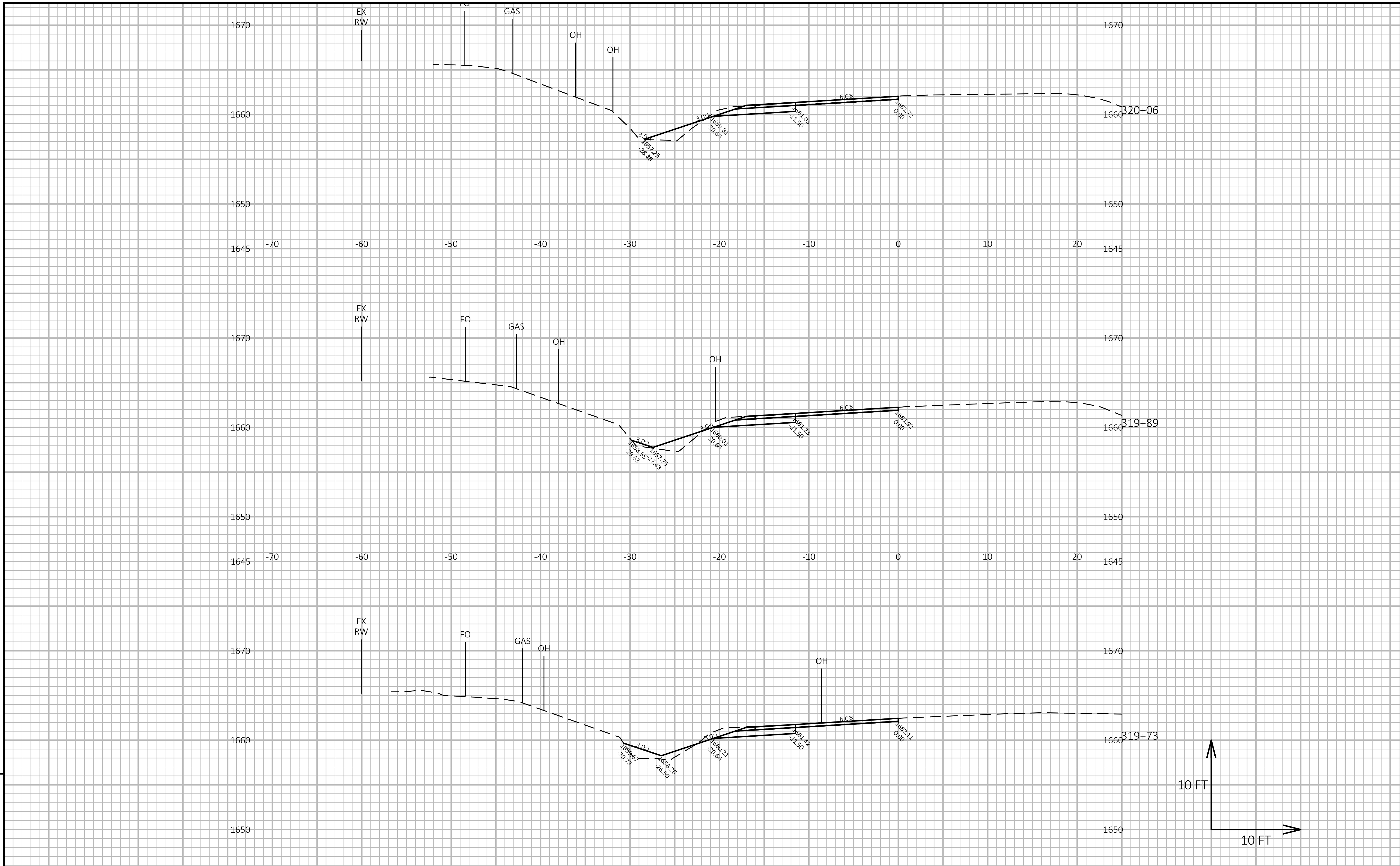
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: STH 155 LT DITCH GRADING, SHAPING AND FINISHING	SHEET 150	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - LT DITCH 1
PLOT DATE : 5/25/2023 4:06 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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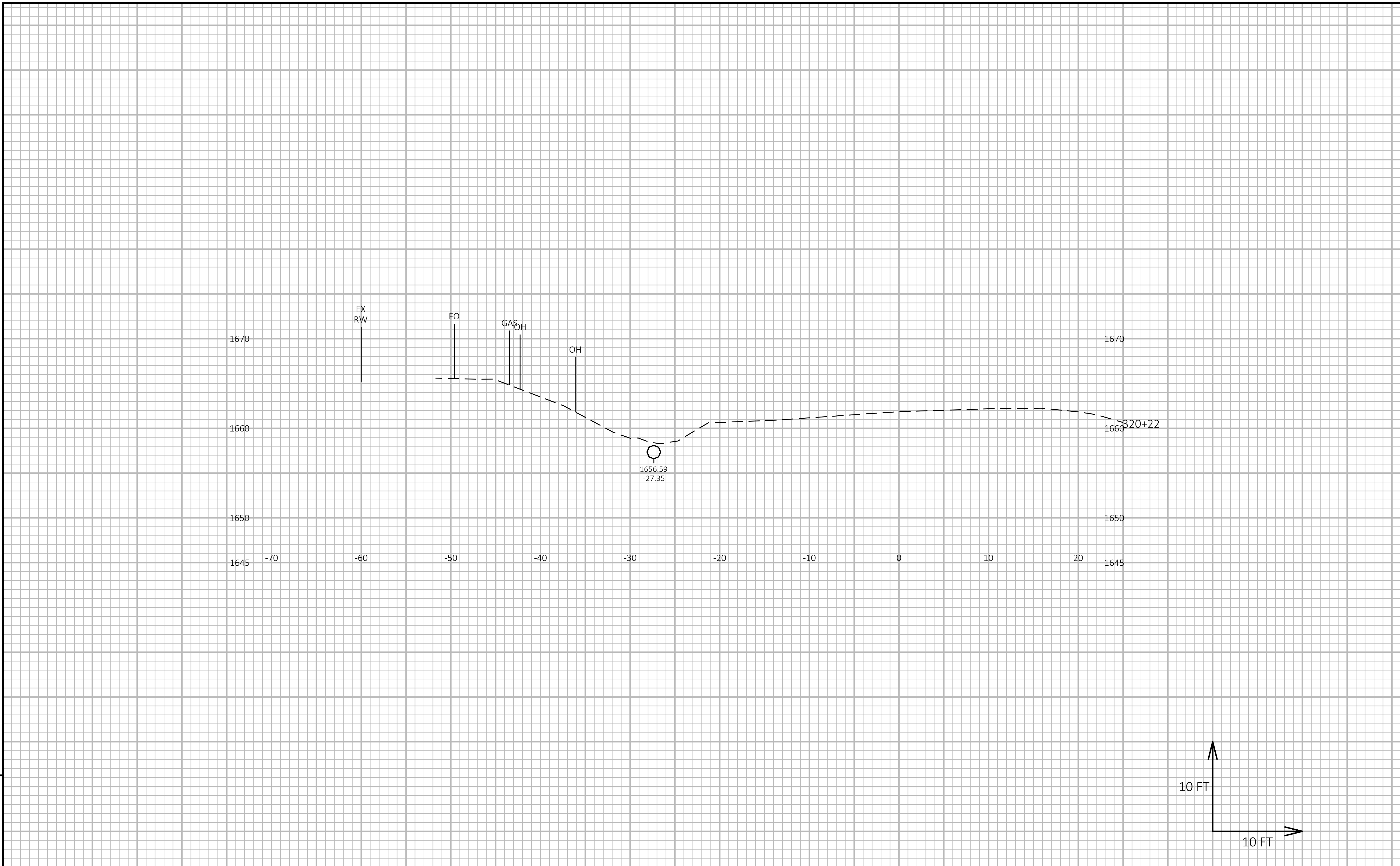
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: STH 155 LT DITCH GRADING, SHAPING AND FINISHING	SHEET 151	E



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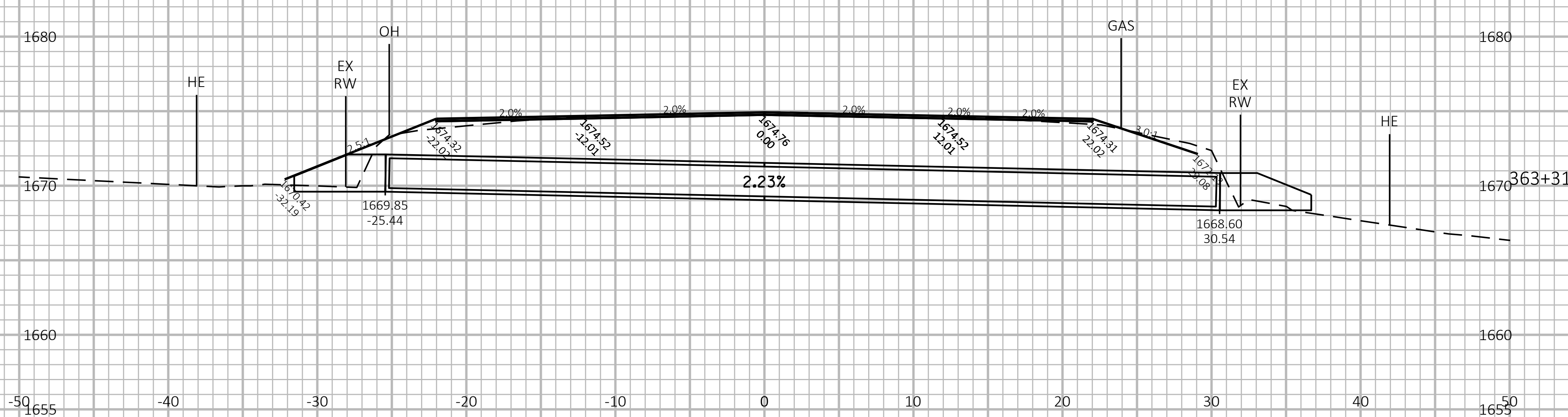
PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: STH 155 LT DITCH GRADING, SHAPING AND FINISHING	SHEET 152	E

FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\92050330\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - LT DITCH 3
PLOT DATE : 5/25/2023 4:07 PM PLOT BY : MAVES, EVAN A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 9205-03-60	HWY: STH 155	COUNTY: VILAS	CROSS SECTIONS: CULVERT 63-155-004227 REPLACEMENT	SHEET 153	E

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Wisconsin Department of Transportation

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