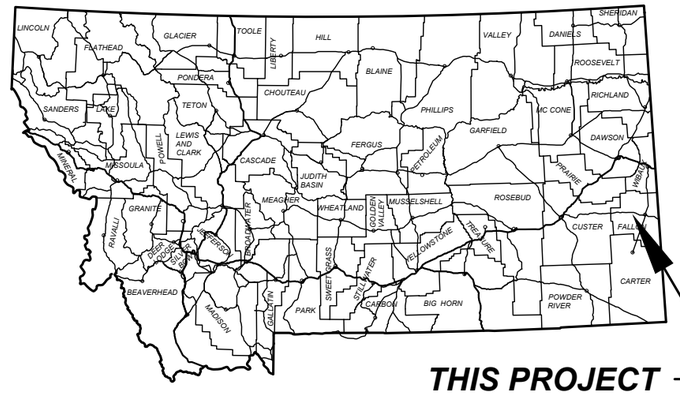
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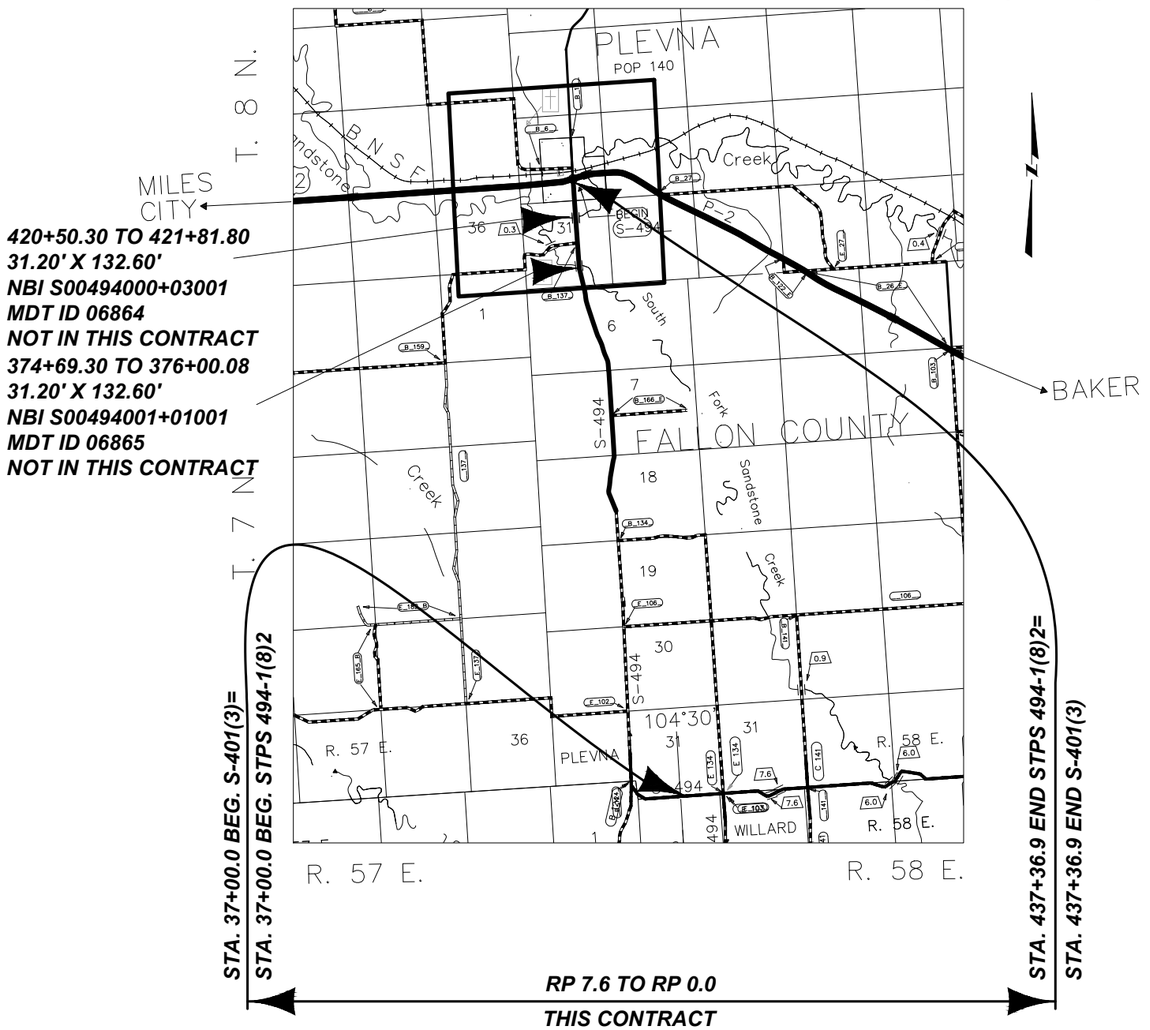
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPS 494-1(8)2
RESURFACING - PAVEMENT PULVERIZATION
SOUTH OF PLEVNA - SOUTH
FALLON COUNTY

LENGTH 7.6 MILES

PROJECT DESIGN DATA		
PRESENT	2022	A.D.T. = 80
LETTING	2025	A.D.T. = 80
DESIGN	2045	A.D.T. = 100
		D.H.V. = 10
		TRUCKS = 2.5%
		V. = 45 MPH
		18 KIP ESAL'S = 1 DAILY
		GROWTH RATE = 1.0% ANNUAL

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	STPS 494-1(8)1



MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:

HIGHWAYS ENGINEER

DocuSigned by:
Damian Krings
354C32D8BEB041E...

MONTANA
DAMIAN KRINGS
12113PE
LICENSED PROFESSIONAL ENGINEER

11/13/2024
DATE

SHEET NO. 01

TITLE

PROJECT NAME: SOUTH OF PLEVNA-SOUTH
COUNTY: FALLON COUNTY
PROJECT ID: STPS 494-1(8)2
UPN: 10277000

DESIGNED BY	04/2024
A. DELAHUNT	
REVIEWED BY	MM/YYYY
FIRST INITAL LAST NAME	
CHECKED BY	06/2024
J. SOLIDAY	

MONTANA
Department of Transportation

ROAD PLANS

10/8/2024 9:18 AM

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TABLE OF CONTENTS

ROAD PLANS	SHEET NO.
TITLE SHEET	1
TABLE OF CONTENTS	2
NOTES	2
TYPICAL SECTIONS	3
SUMMARIES	4
SURFACING	
PULVERIZATION	
CRACK SEALING	
REVEGETATION	
CULVERTS	
DETAILS	5-6
CULVERT REPLACEMENT SURFACING	5
CRACK SEAL	6

SIGNING PLANS	
SUMMARY	S1
SPECIFICATIONS	S2-S5
DETAILS	S6
PLANS	S7-S20

NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD
MASTIC	= 1.7 LBS PER LN. FT

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):
S 401(3) (RECONSTRUCTION - 1964)
PROJECT STATIONING INCREASES FROM SOUTH TO NORTH,
RP'S INCREASE FROM NORTH TO SOUTH

SHEET NO.
02

TABLE OF CONTENTS
NOTES

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY	A. DELAHUNT 04/2024
REVIEWED BY	FIRST INITAL LAST NAME MM/YYYY
CHECKED BY	J. SOLIDAY 06/2024
PROJECT NAME	SOUTH OF PLEVNA-SOUTH
COUNTY	FALLON COUNTY
PROJECT ID	STPS 494-1(8)2
UPN	10277000

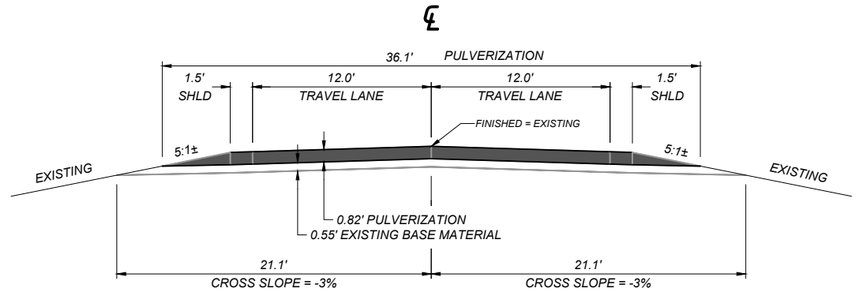
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TYPICAL SECTION NO. 1

MAINLINE

37+00.0 PROJECT BEGIN
37+00.0 TO 358+00.0

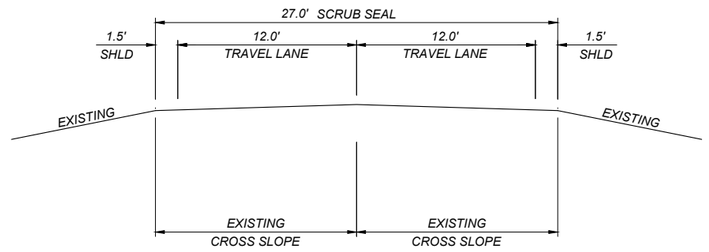


QUANTITIES					
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL	
				PULVERIZATION	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION			square yards PER STATION	401	

TYPICAL SECTION NO. 2

MAINLINE

358+00.0 TO 374+69.3 BE
376+00.08 BE TO 420+50.3 BE
421+81.8 BE TO 437+36.9 PROJECT END



QUANTITIES					
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL	
	COVER			SCRUB SEAL EMULSION	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	300		square yards PER STATION tons PER STATION	300 0.54	

SHEET NO. 03

TYPICAL SECTIONS

PROJECT NAME: SOUTH OF PLEVNA-SOUTH
COUNTY: FALLON COUNTY
PROJECT ID: STPS 494-1(8)2
UPN: 10277000

DESIGNED BY	04/2024
A. DELAHUNT	
REVIEWED BY	MM/YYYY
FIRST INITAL LAST NAME	
CHECKED BY	06/2024
J. SOLIDAY	

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	REMARKS
358+00.00	374+69.30 B.E.	1,669.30	1,669.30				5,008		9.0	TYP. NO. 2
374+69.30 B.E.	376+00.08 B.E.	130.78			130.78	BRIDGE				
376+00.08	420+50.30 B.E.	4,450.22	4,450.22				13,351		24.0	TYP. NO. 2
420+50.30 B.E.	421+81.80 B.E.	131.50			131.50	BRIDGE				
421+81.80 B.E.	437+36.90	1,555.10	1,555.10				4,665		8.4	TYP. NO. 2
39+35.00	39+60.00	25.00	25.00			CULVERT REPLACEMENT		27		
176+40.00	176+60.00	20.00	20.00			CULVERT REPLACEMENT		22		
246+25.00	246+45.00	20.00	20.00			CULVERT REPLACEMENT		22		
352+25.00	352+45.00	20.00	20.00			CULVERT REPLACEMENT		22		
TOTAL		8,021.90	7,759.62	~	262.28		23,024	93	41.4	

*PULVERIZATION

STATION FROM	STATION TO	sq. yards PAVEMENT PULVERI-ZATION 0.82 ft	REMARKS
37+00.00	358+00.00	128,757	36.1' WIDTH TYP. NO. 1
TOTAL		128,757	

*PULVERIZATION AREAS MAY BE COMPACTED IN ONE LIFT

CRACK SEALING *

STATION FROM	STATION TO	CRACKS > 1.5" # linear feet	CRACK FILLING MASTIC * pounds	REMARKS
358+00.00	437+36.90	4,077	6,931	
SUBTOTAL		~	6,931	
TOTAL		~	6,931	

* SEE DETAIL SHEET
# FOR INFORMATION ONLY

REVEGETATION

STATION	lump sum REVEGE-TATION	REMARKS
	1	
TOTAL	1	

CULVERTS

STATION	BASIC BID ITEMS CULVERT PIPE in	BASIC BID ITEMS linear feet LENGTH OF PIPE	BASIC BID ITEMS linear feet REMOVE PIPE CULVERT	PIPE OPTIONS in STEEL - 2 2/3 X 1/2 CORR. CONCRETE ALUMINUM - 2 2/3 x 1/2 CORR.	CLASS OR THK.	COATING *	END SECTIONS LEFT	END SECTIONS RIGHT	CULVERT IN PL. in x ft	REMARKS
39+46	24	112	112.0	24 CSP 24 CAP 24 RCP	0.064 0.060 CL.3	YES NO NO	FETS FETS FETS	FETS FETS FETS	24 x 112 CMP	REMOVE DRAIN
176+50	24	82	82.0	24 CSP 24 CAP 24 RCP	0.064 0.060 CL.3	YES NO NO	FETS FETS FETS	FETS FETS FETS	24 x 82 CMP	REMOVE DRAIN
246+35	24	80	80.0	24 CSP 24 CAP 24 RCP	0.064 0.060 CL.3	YES NO NO	FETS FETS FETS	FETS FETS FETS	24 x 80 CMP	REMOVE DRAIN
352+35	24	80	80.0	24 CSP 24 CAP 24 RCP	0.064 0.060 CL.3	YES NO NO	FETS FETS FETS	FETS FETS FETS	24 x 80 CMP	REMOVE DRAIN
TOTAL	~	354	354.0	~	~	~	~	~	~	

* SEE STANDARD SPEC. SEC. 709.05 OR 709.12

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICA-TION #	FINAL APPLICA-TION	TOTAL
STRIPING -WHITE PAINT	gallon	27		27
STRIPING -YELLOW PAINT	gallon	21		21
STRIPING -WHITE EPOXY	gallon		36	36
STRIPING -YELLOW EPOXY	gallon		28	28
TEMPORARY STRIPING	linear feet			7,675
FINAL SWEEP AND BROOM	course mile			0.0

#BASED ON 2 APPLICATIONS.

SHEET NO. 04

SUMMARIES

PROJECT NAME SOUTH OF PLEVNA-SOUTH
COUNTY FALLON COUNTY
PROJECT ID STPS 494-1(8)2
UPN 10277000

DESIGNED BY A. DELAHUNT 04/2024
REVIEWED BY
FIRST INITAL LAST NAME MM/YYYY
CHECKED BY J. SOLIDAY 06/2024
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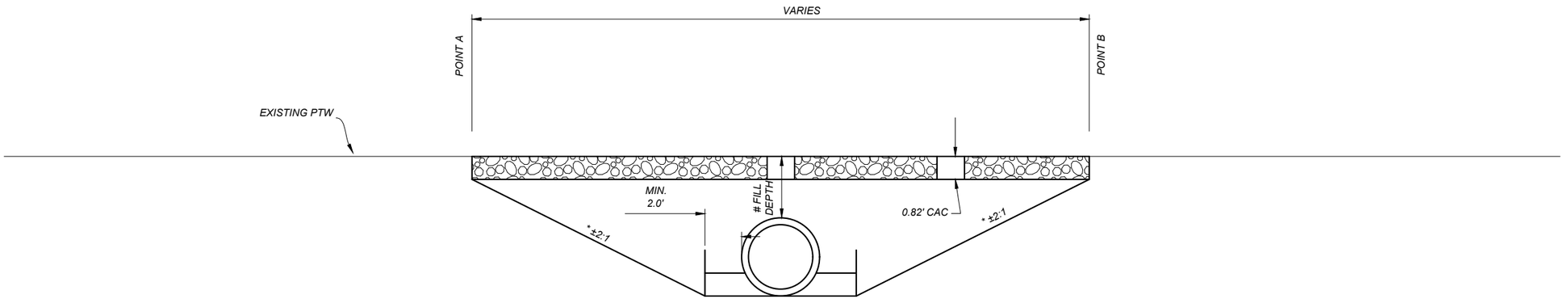
MONTANA Department of Transportation

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DETAIL



PIPE REPLACEMENT SURFACING

PIPE STATION	SURFACING STATION		PIPE DIAMETER	ESTIMATED FILL DEPTH	SURFACING WIDTH	REMARKS
	POINT A	POINT B	INCHES	FEET	FEET	
39+46	39+35	39+60	24	1.5	36.1	
176+50	176+40	176+60	24	1.5	36.1	
246+35	246+25	246+45	24	1.5	36.1	
352+35	352+25	352+45	24	1.5	36.1	

A MINIMUM OF 18 INCHES FILL DEPTH IS ASSUMED FROM SITE TOPOGRAPHY
SEE CULVERT SUMMARY FRAME FOR MORE INFORMATION

NOTES:

* SHOWN DIMENSIONS WERE USED FOR QUANTITY ESTIMATION PURPOSES. EXCAVATE A SUFFICIENT AMOUNT TO PROVIDE A SAFE WORKING ENVIRONMENT AND TO ALLOW ACHIEVEMENT OF ALL CULVERT INSTALLATION AND COMPACTION REQUIREMENTS. SLOPE, BENCH OR PROVIDE SHORING FOR ALL EXCAVATIONS IN ACCORDANCE WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.

SEE DETAILED DRAWING 603-18 FOR ADDITIONAL BEDDING INFORMATION

A MINIMUM OF 18 INCHES FILL DEPTH IS ASSUMED FROM SITE TOPOGRAPHY

INCLUDE ALL EXCAVATION FOR CULVERT INSTALLATION IN THE COST OF NEW CULVERT

SHEET NO.
05

DETAIL
CULVERT
REPLACEMENT
SURFACING
NO SCALE

PROJECT NAME SOUTH OF PLEVNA-SOUTH
COUNTY FALLON COUNTY
PROJECT ID STPS 494-1(8)2
UPN 10277000

DESIGNED BY	04/18/2024		
A. DELAHUNT		REVIEWED BY	####
#####		CHECKED BY	DD/MM/YY
INITIALS			10277000RDDET001.DWG

MONTANA
Department of Transportation

ROAD PLANS

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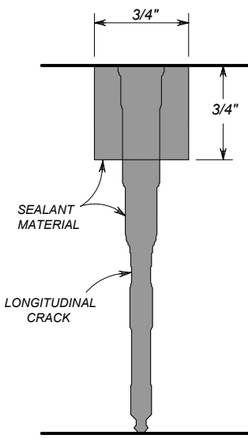
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CRACK SEALING

CRACKS 1/8" TO 1.5" WIDE

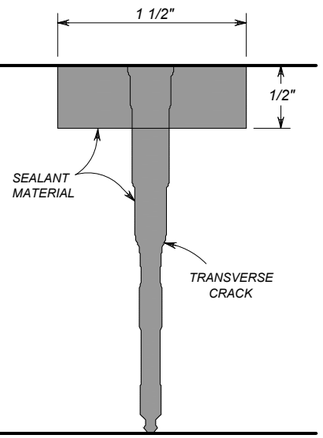
LONGITUDINAL CRACK

ROUT 3/4" WIDE x 3/4" DEEP
PRIOR TO APPLYING SEALANT



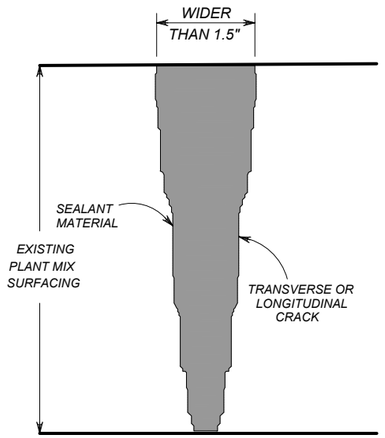
TRANSVERSE CRACK

ROUT 1 1/2" WIDE x 1/2" DEEP
PRIOR TO APPLYING SEALANT



CRACKS WIDER THAN 1.5"
MASTIC REQUIRED

LEAVE EXISTING CRACK SEAL IN PLACE



SHEET NO.
06

DETAIL
CRACK SEALING
(NO SCALE)

PROJECT NAME: SOUTH OF PLEVNA-SOUTH
COUNTY: FALLON COUNTY
PROJECT ID: STPS 494-1(8)2
UPN: 10277000

DESIGNED BY	04/2024
A. DELAHUNT	
REVIEWED BY	MM/YYYY
FIRST INITAL LAST NAME	
CHECKED BY	06/2024
J. SOLIDAY	

MONTANA
Department of Transportation

ROAD PLANS

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NOTES AND ABBREVIATIONS:

MOUNTING HEIGHT REQUIREMENTS:
MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08

ALL MARKINGS ARE PAINT, EXCEPT AS NOTED. WHERE SPECIFIED ON THE PLANS AS PLASTIC, INSTALL INLAID HOT EXTRUDED HYDRO-CARBON THERMOPLASTIC PAVEMENT MARKINGS.

SIGNING LOCATIONS ARE APPROXIMATE. ENGINEERING PROJECT MANAGER TO FIELD ADJUST AS NECESSARY.

ADOPT A HIGHWAY:
IF SIGNS N7-1/N7-1P EXIST, CONTRACTOR WILL CONFIRM THAT THE GROUP NAME ON THE SIGN(S) EXISTING AT THE TIME OF CONSTRUCTION CORRESPONDS TO THE GROUP NAME ON THE SIGN(S) SHOWN IN PLANS. IF NAME IS DIFFERENT, ENGINEERING PROJECT MANAGER WILL CONTACT TRAFFIC & SAFETY BUREAU SIGNING SECTION WITH THE CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

✕ = STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

▲ = SINGLE SQUARE TUBE REQUIRED. MOUNTED IN HEAVY DUTY STUB.

★ = TELESCOPED SQUARE TUBES (2-1/4" & 2-1/2") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

▮ = FRANGIBLE SIGN POST. BREAKAWAY DEVICE REQUIRED.

AIR = ANGLE IRON REQUIRED 2 1/2" x 2 1/2" x 3/8" x 6'-4" (37 lbs.) FOR INTERSTATE EXIT PANELS ON GUIDE SIGNS.

BBR = BACKBRACING REQUIRED: SEE DETAILED DRAWINGS

BGR = BEHIND GUARDRAIL

FY = FLUORESCENT YELLOW SHEETING REQUIRED.

FYG = FLUORESCENT YELLOW - GREEN SHEETING REQUIRED.

MBB = MOUNT BACK TO BACK

RSFO = REPLACE SIGN FACE ONLY.

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTALS	UNIT
SIGNS-ALUM REFL SHEET XI	231.4	SQFT
REMOVE SIGN	44	EACH
POSTS-STEEL U SIGN	133	LB
POLES-TREATED WOOD 4 IN	140	LNFT
POLES-TREATED WOOD 5 IN	184	LNFT

* ALL DELINEATORS HAVE BEEN REMOVED BY THE COUNTY. THE COUNTY ASKED THAT WE DON'T INCLUDE "DELINEATORS" IN THE DESIGN PLANS.

SHEET NO.
S1

SIGNING SUMMARY
FRAMES AND NOTES

PROJECT NAME SOUTH OF PLEVNA - SOUTH
COUNTY FALLON
PROJECT ID STPS 494-1(8)2
UPN 10277000

DESIGNED BY S.MORANO 04/2024
REVIEWED BY --- ---
CHECKED BY N.STYREN 04/2024

MONTANA Department of Transportation

SIGNING PLANS

9/10/2024 10:15 AM

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET		FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
43+24.67																																		
X				W8-3	REMOVE																									1					W8-3 = REMOVE (PAVEMENT END)
46+67.80																																		
		X		W1-10R	30 X 30	FY				10.0	4" Treated Wood Pole		5.0		3.0	12.5						6.3		14.0						1					W1-10R = RELOCATE FROM 45+42.23
				W13-3	REMOVE																									1					W13-3 REMOVE
48+05.89																																		
X				W1-8	24 X 30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3				X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
49+18.33																																		
X				W1-8	24 X 30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3				X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
50+35.47																																		
X				W1-8	24 X 30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3				X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
51+52.43																																		
X				W1-8	24 X 30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3				X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
52+79.66																																		
X				W1-8	24 X 30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3				X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
53+90.43																																		
X				W1-8	24 X 30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3				X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
55+07.62																																		
X				W1-8	24 X 30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3				X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
56+23.95																																		
X				W1-8	24 X 30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3				X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
57+24.36																																		
X				W1-8	24 X 30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3				X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
57+26.00																																		
X				D3-2	48 X 18					20.0	5" Treated Wood Pole		7.0		3.5	13.0				X		6.0			28.0										D3-2a = NEW (PLEVNA RD S/SUNNY BANK RD)
57+53.77																																		
X				D3 (2x)	10 X 42					6.0	4" Treated Wood Pole		5.0		3.0	12.6						5.8		14.0						1					(2) D3 = NEW (PLEVNA RD S)
				R1-1	30 X 30																	5.2												R1-1 = REPLACE

SHEET NO.
S2

SIGN LOCATION AND SPECIFICATIONS

PROJECT NAME: SOUTH OF PLEVNA - SOUTH
COUNTY: FALLON
PROJECT ID: STPS 494-1(8)2
UPN: 10277000

DESIGNED BY: S.MORANO 04/2024
REVIEWED BY: --- ---
CHECKED BY: N.STYREN 04/2024

10277000SIFPR001.DWG

MONTANA Department of Transportation

SIGNING PLANS

9/10/2024 10:15 AM

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AWARD COPY

SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W	X	H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
58+25.23																																				
		X		D3 (2x)																												1					D3(2X) = REMOVE
				D3 (2x)																												1					D3(2X) = REMOVE
				D3 (2x)																												1					D3(2X) = REMOVE
				D3 (2x)																												1					D3(2X) = REMOVE
59+48.12																																					
		X		R2-1	REMOVE																											1					R2-1 = REMOVE
59+76.05																																					
X				W1-8	24	X	30	FY				10.0	5" Treated Wood Pole		5.0		3.5	12.3					X		10.0			14.0					1					W1-8 = REPLACE (CHEVRONS)
61+18.07																																					
X				W1-10L								10.0	4" Treated Wood Pole		5.0		3.0	12.5										14.0					1					W1-10L = RELOCATE FROM 62+45.71
				W13-1	REMOVE																											1					W13-1 = REMOVE
67+74.78																																					
X				D10-1	10	X	18			MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.6							2.6					19.0			1					(2) D10-2 = REPLACE (7)
104+80.70																																					
X				D3 (2x)	42	X	10					6.0	4" Treated Wood Pole		5.0		3.0	12.5							5.8			14.0					1					D3 (2x) = REPLACE
				D3 (2x)	42	X	10																		5.8												D3 (2x) = REPLACE
				R1-1	30	X	30																		5.2												R1-1 = REPLACE
120+49.28																																					
X				D10-1	10	X	18			MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.6							2.6					19.0			1					(2) D10-2 = REPLACE (6)

SHEET NO.
S3

SIGN LOCATION AND SPECIFICATIONS

PROJECT NAME: SOUTH OF PLEVNA - SOUTH
COUNTY: FALLON
PROJECT ID: STPS 494-1(8)2
UPN: 10277000

DESIGNED BY: S.MORANO 04/2024
REVIEWED BY: --- ---
CHECKED BY: N.STYREN 04/2024

MONTANA Department of Transportation

SIGNING PLANS

9/10/2024 10:15 AM

10277000SIFPR001.DWG

Docusign Envelope ID: 55235428-EAB6-47EE-901E-255401FC97BA

SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES											ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W	X	H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
158+03.77																																				
		X		D3 (2x)																												1					D3(2X) = REMOVE
				D3 (2x)																												1					D3(2X) = REMOVE
158+15.07																																				
X				FWP BY OTHERS																																	BY OTHERS = USE AS IS
173+16.77																																				
X				D10-1	10	X	18			MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.6						2.6						19.0		1					(2) D10-2 = REPLACE (5)
210+97.92																																				
		X		D3-2																																		D3-2 = USE AS IS
225+96.92																																				
X				D10-1	10	X	18			MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.6						2.6						19.0		1					(2) D10-2 = REPLACE (4)
283+25.69																																				
X				D10-1	10	X	18			MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.6						2.6						19.0		1					(2) D10-2 = REPLACE (3)
333+39.60																																				
X				D10-1	10	X	18			MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.6						2.6						19.0		1					(2) D10-2 = REPLACE (2)
361+48.60																																				
X				W8-3	30	X	30					10.0	4" Treated Wood Pole		5.0		3.0	12.5						6.3		14.0											W8-3 = NEW
384+12.21																																				
X				D10-1	10	X	18			MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.6						2.6						19.0		1					(2) D10-2 = REPLACE (1)
398+20.00																																				
X				D3 (2x)	42	X	10					6.0	4" Treated Wood Pole		5.0		3.0	13.7						5.8		14.0											D3 (2X) = NEW (PLEVNA RD S)
				D3 (2x)	42	X	10																		5.8												D3 (2X) = NEW (RUNWAY TRL)
				R1-1	30	X	30																		5.2												R1-1 = NEW (STOP SIGN)
398+25.60																																				
		X		D3 (2x) USE AS IS																																		D3 (2X) = USE AS IS (PLEVNA RD S)
				D3 (2x) USE AS IS																																		D3 (2X) = USE AS IS (RUNWAY TRL)
421+59.84																																				
X				R2-2A	REMOVE																													1					R2-2a = REMOVE (65 MPH)

SIGN LOCATION AND SPECIFICATIONS

PROJECT NAME: SOUTH OF PLEVNA - SOUTH
COUNTY: FALLON
PROJECT ID: STPS 494-1(8)2
UPN: 10277000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
S.MORANO	04/2024	---	---	N.STYREN	04/2024

MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W	X	H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
424+64.86																																			
		X		N6-1	48	X	30					10.0	4" Treated Wood Pole		5.0		3.0	12.3						10.0		14.0						1				ENTERING PLEVNA	N6-1 = REPLACE
425+79.03																																			
X				R2-1	REMOVE																										1				SPEED LIMIT 70	R2-1 = REMOVE (70 MPH)
				R2-3A	REMOVE																										1				NIGHT 65	R2-3A = REMOVE (NIGHT 65 MPH)
427+34.78																																			
		X		D3 (2x)	36	X	10					6.0	4" Treated Wood Pole		5.0		3.0	12.6						5.0		14.0						1				LAKE ST	D3 (2X) = REPLACE (LAKE ST)
				R1-1	30	X	30																		5.2							1				STOP	R1-1 = REPLACE
431+19.78																																			
		X		M2-1	21	X	15					10.0	4" Treated Wood Pole		5.0		3.0	13.2						2.2		14.0						1				JCT	M2-1 = REPLACE (JCT)
				M1-4	24	X	24																		4.0							1				12	M1-4 = REPLACE (12)
434+12.94																																			
		X		M1-4	REMOVE																										1				12	M1-4 = REMOVE (12)
434+82.18																																			
X				M3-3	21	X	15					10.0	4" Treated Wood Pole		5.0		3.0	12.6						2.2		14.0						1				SOUTH	M3-3 = REPLACE (SOUTH)
				M1-12	24	X	24																		4.0											494	M1-12 = REPLACE (494)
436+66.37																																			
		X		D3 (2x)	36	X	10					6.0	5" Treated Wood Pole		5.0		3.5	14.7				X		5.0			16.0					1				US 12	D3 (2X) = REPLACE (US 12)
				D3 (2x)	36	X	10																		5.0							1				MAIN ST	D3 (2X) = REPLACE (MAIN ST)
				R1-1	36	X	36																		7.5							1				STOP	R1-1) = REPLACE
												PROJECT TOTALS												231.4		140	184				133		44			

SHEET NO.
S5

SIGN LOCATION AND SPECIFICATIONS

PROJECT NAME: SOUTH OF PLEVNA - SOUTH
COUNTY: FALLON
PROJECT ID: STPS 494-1(8)2
UPN: 10277000

DESIGNED BY: S.MORANO 04/2024
REVIEWED BY: --- ---
CHECKED BY: N.STYREN 04/2024
10277000SIFPR001.DWG

MONTANA Department of Transportation

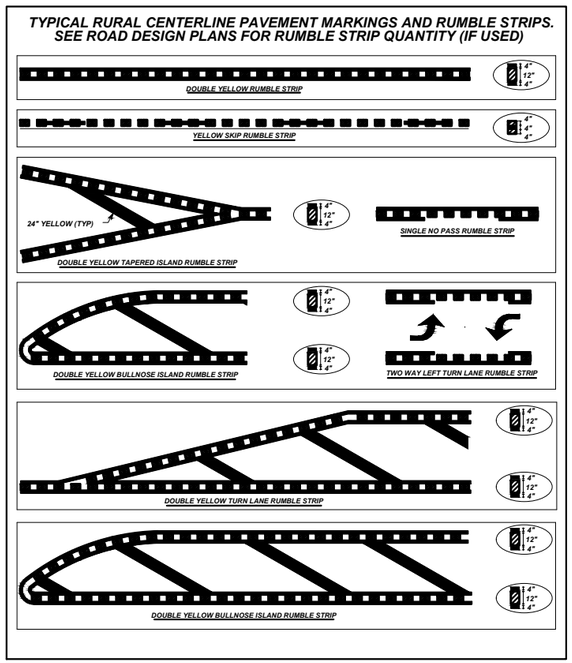
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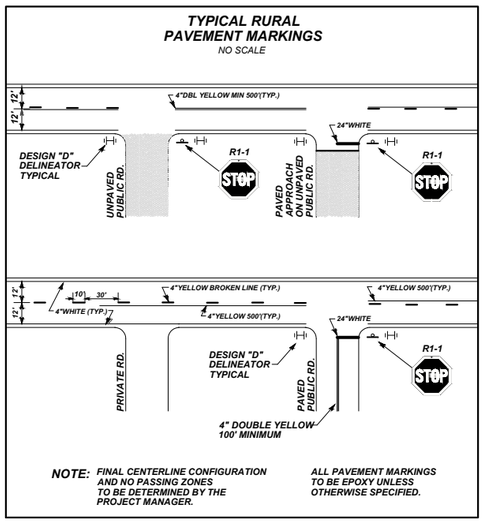
AWARD COPY

TYPICAL RURAL CENTERLINE PAVEMENT MARKINGS AND RUMBLE STRIPS.
SEE ROAD DESIGN PLANS FOR RUMBLE STRIP QUANTITY (IF USED)



TYPICAL RURAL PAVEMENT MARKINGS

NO SCALE



NOTE: FINAL CENTERLINE CONFIGURATION AND NO PASSING ZONES TO BE DETERMINED BY THE PROJECT MANAGER.

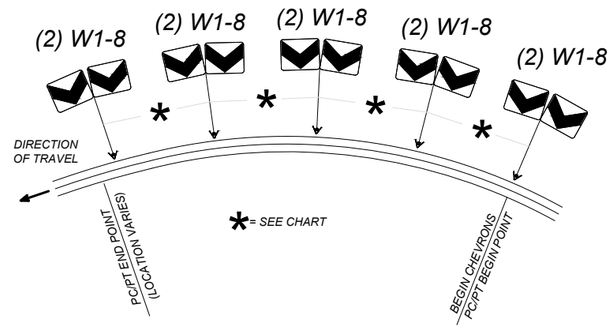
ALL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE SPECIFIED.

NOTES:

1. SEE CENTERLINE RUMBLE STRIPS DTL. DWG. NO. 411-05 FOR ADDITIONAL INFORMATION.
2. ALL PAVEMENT MARKINGS ARE TO CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" PUBLICATIONS, FROM THE FEDERAL HIGHWAY ADMINISTRATION.
3. SEE CENTERLINE PAVEMENT MARKINGS FOR RURAL HIGHWAYS MEMO DATED JUNE 18, 2019 FOR APPLICATION METHODOLOGY
4. DASHED LINES WILL HAVE A 10:30 SKIP IN RURAL LOCATIONS, AND A 9:15 SKIP IN URBAN LOCATIONS

CHEVRON PLACEMENT DETAIL

(GUIDANCE ONLY)



CURVE RADIUS	SIGN SPACING		R.P. CONVERSION
<200'	40'	=	.008±
200' - 400'	80'	=	.015±
401' - 700'	120'	=	.023±
701' - 1250'	160'	=	.030±
>1250'	200'	=	.038±

1) SEE SPEC SHEET FOR CHEVRON PLACEMENT

2) USE BEGINNING OF CURVE LOCATION AS REFERENCE POINT TO INSTALL CHEVRONS (BEGIN POINT - ALWAYS ON OUTSIDE OF CURVE IN DIRECTION OF TRAVEL)

SHEET NO. S6

DETAIL SHEET

PROJECT NAME: SOUTH OF PLEVNA - SOUTH
COUNTY: FALLON
PROJECT ID: STPS 494-1(8)2
UPN: 10277000

DESIGNED BY: S.MORANO 04/2024
REVIEWED BY: --- ---
CHECKED BY: N.STYREN 04/2024

MONTANA Department of Transportation

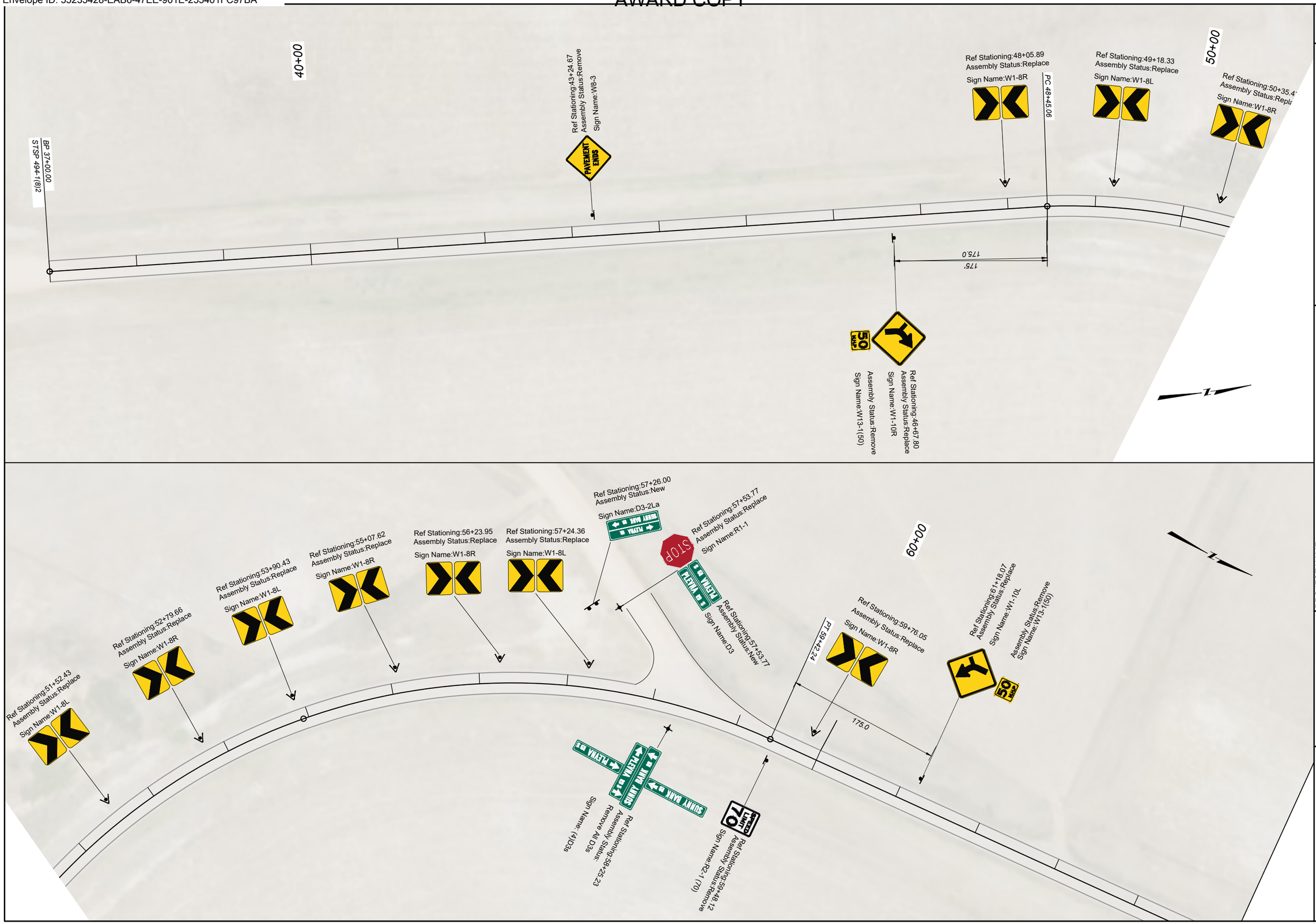
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SHEET NO.
S7

PLAN SHEET

PROJECT NAME **SOUTH OF PLEVNA - SOUTH**
COUNTY **FALLON**
PROJECT ID **STPS 494-1(8)2**
UPN **10277000**

DESIGNED BY		REVIEWED BY		CHECKED BY	
S.MORANO	04/2024	---	---	N.STYREN	04/2024

MONTANA
Department of Transportation

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70+00

80+00

90+00

Ref Stationing:67+74.78
Assembly Status:New
Sign Name:D10-1 (7)

SHEET NO.
S8

PLAN SHEET

DESIGNED BY	S.MORANO	04/2024	
REVIEWED BY	---	---	
CHECKED BY	N.STYREN	04/2024	

PROJECT NAME: SOUTH OF PLEVNA - SOUTH
COUNTY: FALLON
PROJECT ID: STPS 494-1(8)2
UPN: 10277000

MONTANA
Department of Transportation

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100+00

Ref Stationing:104+80.70
Assembly Status:Replace
Sign Name:R1-1
Sign Name:D3s

110+00

120+00

Ref Stationing:120+49.28
Assembly Status:New
Sign Name:D10-1 (6)

SHEET NO.
S9

PLAN SHEET

MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	S.MORANO	04/2024	
REVIEWED BY	---	---	
CHECKED BY	N.STYREN	04/2024	

PROJECT NAME **SOUTH OF PLEVNA - SOUTH**
COUNTY **FALLON**
PROJECT ID **STPS 494-1(8)2**
UPN **10277000**

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130+00

140+00

150+00

SHEET NO.
S10

PLAN SHEET

PROJECT NAME
SOUTH OF PLEVNA - SOUTH

COUNTY
FALLON

PROJECT ID
STPS 494-1(8)2

UPN
10277000

DESIGNED BY		REVIEWED BY		CHECKED BY	
S.MORANO	04/2024	---	---	N.STYREN	04/2024

MONTANA
Department of Transportation

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160+00

PT 160+30.51

Ref Stationing:158+15.70
Assembly Status:By Others
Sign Name:MT_FAP

Ref Stationing:158+03.77
Assembly Status:Remove
Sign Name:(2)D3

Ref Stationing:159+90.24
Assembly Status:Remove
Sign Name:(2)D3

Ref Stationing:157+90.24
Assembly Status:NEW
Sign Name:(2)D3

Ref Stationing:157+90.24
Assembly Status:Replace
Sign Name:R1-1

170+00

Ref Stationing:173+16.77
Assembly Status:New
Sign Name:D10-1 (5)

180+00

SHEET NO.
S11

PLAN SHEET

MONTANA
Department of Transportation

SIGNING PLANS

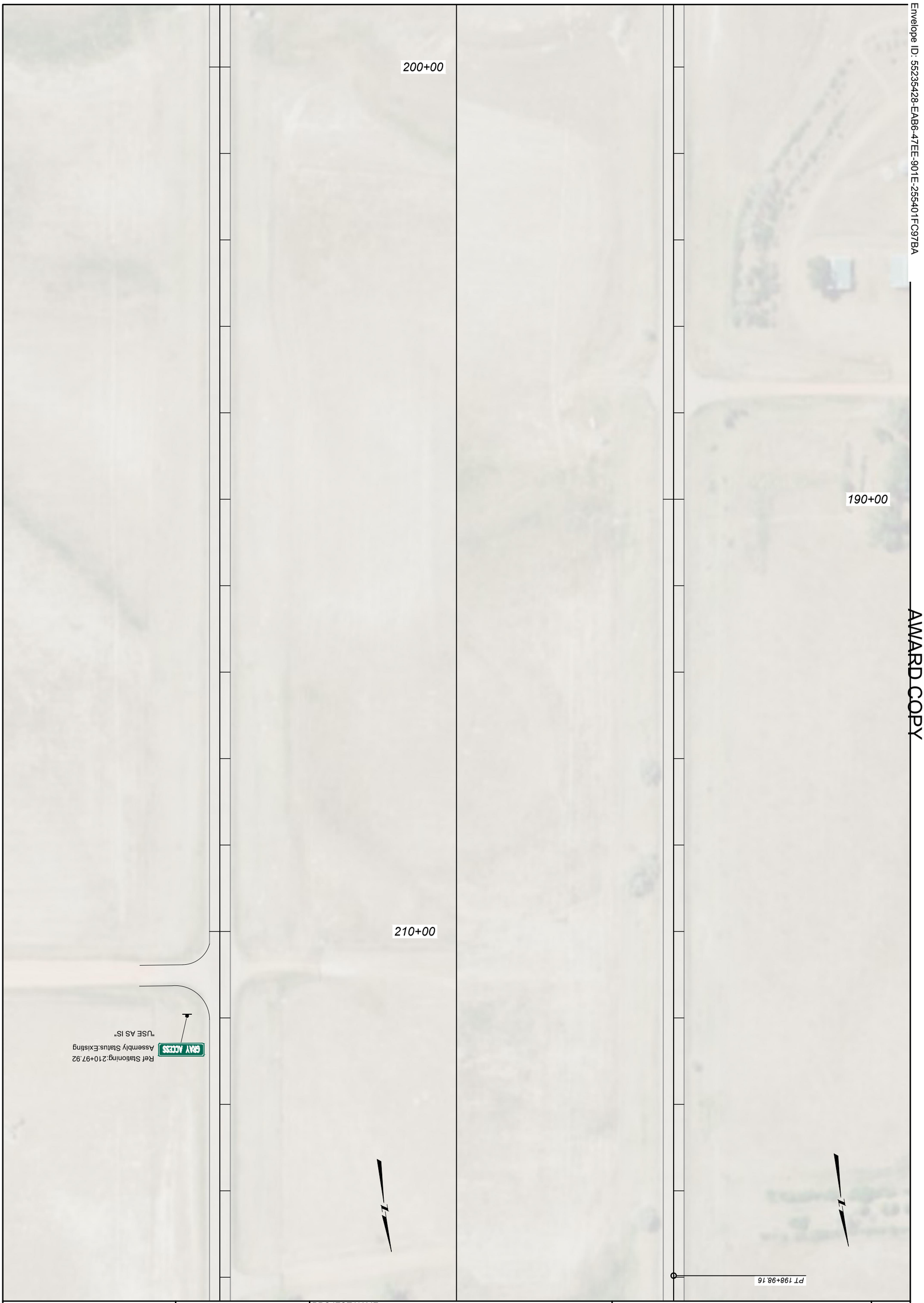
DESIGNED BY	S.MORANO	04/2024	
REVIEWED BY	---	---	
CHECKED BY	N.STYREN	04/2024	

PROJECT NAME: **SOUTH OF PLEVNA - SOUTH**
COUNTY: **FALLON**
PROJECT ID: **STPS 494-1(8)2**
UPN: **10277000**

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Docusign Envelope ID: 55235428-EAB6-47EE-901E-255401FC97BA

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MONTANA Department of Transportation	DESIGNED BY S.MORANO 04/2024	PROJECT NAME SOUTH OF PLEVNA - SOUTH	PLAN SHEET	SHEET NO. S12
	REVIEWED BY ---- ----	COUNTY FALLON		
SIGNING PLANS	CHECKED BY N.STYREN 04/2024	PROJECT ID STPS 494-1(8)2		
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Docusign Envelope ID: 55235428-EAB6-47EE-901E-255401FC97BA

AWARD COPY

220+00

PC 224+39.68

Ref Stationing:225+96.92
Assembly Status:New
Sign Name:D10-1 (4)

240+00

PT 244+14.50

PCC 237+17.72

PRC 231+71.61

230+00

SHEET NO.
S13

PLAN SHEET

PROJECT NAME **SOUTH OF PLEVNA - SOUTH**
COUNTY **FALLON**
PROJECT ID **STPS 494-1(8)2**
UPN **10277000**

DESIGNED BY		REVIEWED BY		CHECKED BY	
S.MORANO	04/2024	---	---	N.STYREN	04/2024

MONTANA
Department of Transportation

SIGNING PLANS

9/10/2024 10:15 AM

10277000SIFPR001.DWG

Docusign Envelope ID: 55235428-EAB6-47EE-901E-255401FC97BA

AWARD COPY

250+00

PT 252+26.33

260+00

PC 267+86.90

270+00

PT 272+32.54

SHEET NO.
S14

PLAN SHEET

PROJECT NAME
SOUTH OF PLEVNA - SOUTH

COUNTY
FALLON

PROJECT ID
STPS 494-1(8)2

UPN
10277000

DESIGNED BY		REVIEWED BY		CHECKED BY	
S.MORANO	04/2024	---	---	N.STYREN	04/2024

MONTANA
Department of Transportation

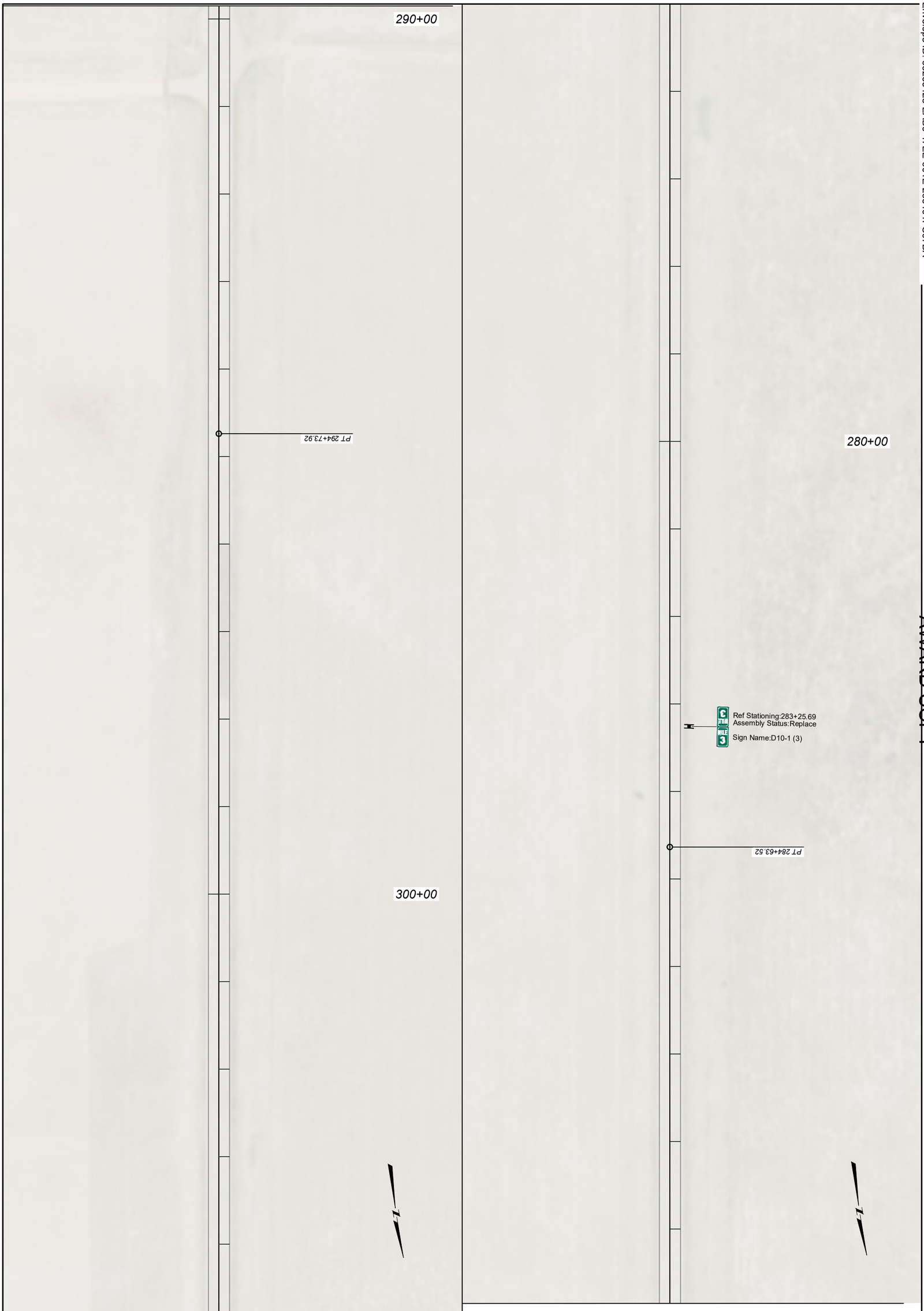
SIGNING PLANS

9/10/2024 10:15 AM

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Docusign Envelope ID: 55235428-EAB6-47EE-901E-255401FC97BA

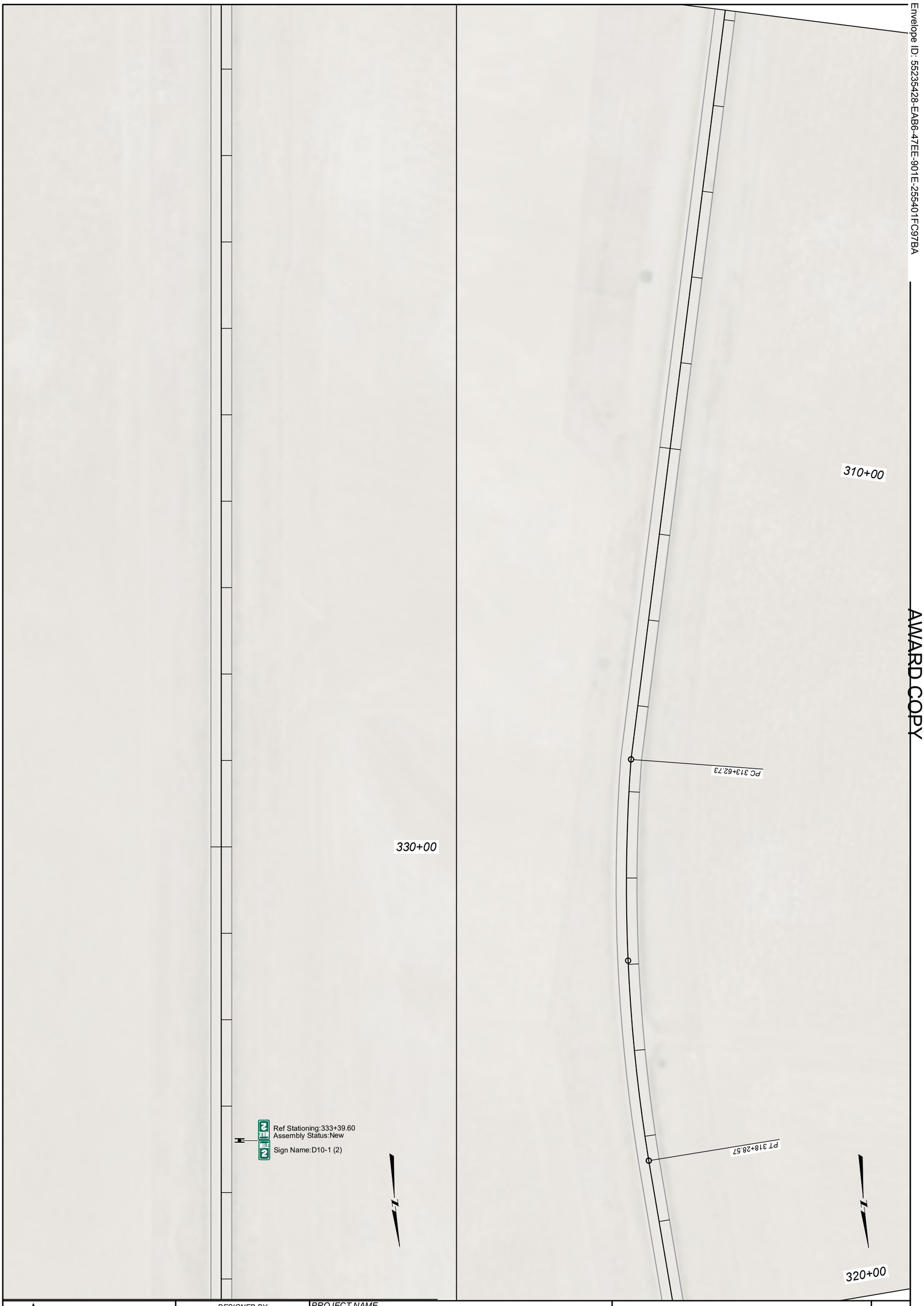
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MONTANA Department of Transportation	DESIGNED BY: S.MORANO 04/2024	PROJECT NAME: SOUTH OF PLEVNA - SOUTH	PLAN SHEET
	REVIEWED BY: ---- ----	COUNTY: FALLON	
SIGNING PLANS	CHECKED BY: N.STYREN 04/2024	PROJECT ID: STPS 494-1(8)2	SHEET NO. S15
9/10/2024 10:15 AM	10277000SIFPR001.DWG	UPN: 10277000	

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MONTANA Department of Transportation	DESIGNED BY: S.MORANO 04/2024	PROJECT NAME: SOUTH OF PLEVNA - SOUTH	PLAN SHEET
	REVIEWED BY: ---- ----	COUNTY: FALLON	
SIGNING PLANS	CHECKED BY: N.STYREN 04/2024	PROJECT ID: STPS 494-1(8)2	SHEET NO. S16
9/10/2024 10:15 AM	10277000SIFPR001.DWG	UPN: 10277000	

Docusign Envelope ID: 55235428-EAB6-47EE-901E-255401FC97BA

AWARD COPY

340+00

PC 344+27.12

PT 348+74.47

350+00

N

PC 357+79.26

360+00

EP 360+00.0

150'

Ref Stationing:361+48.60
Assembly Status:New
Sign Name:W8-3

PAVEMENT ENDS

N

SHEET NO.
S17

PLAN SHEET

MONTANA
Department of Transportation

SIGNING PLANS

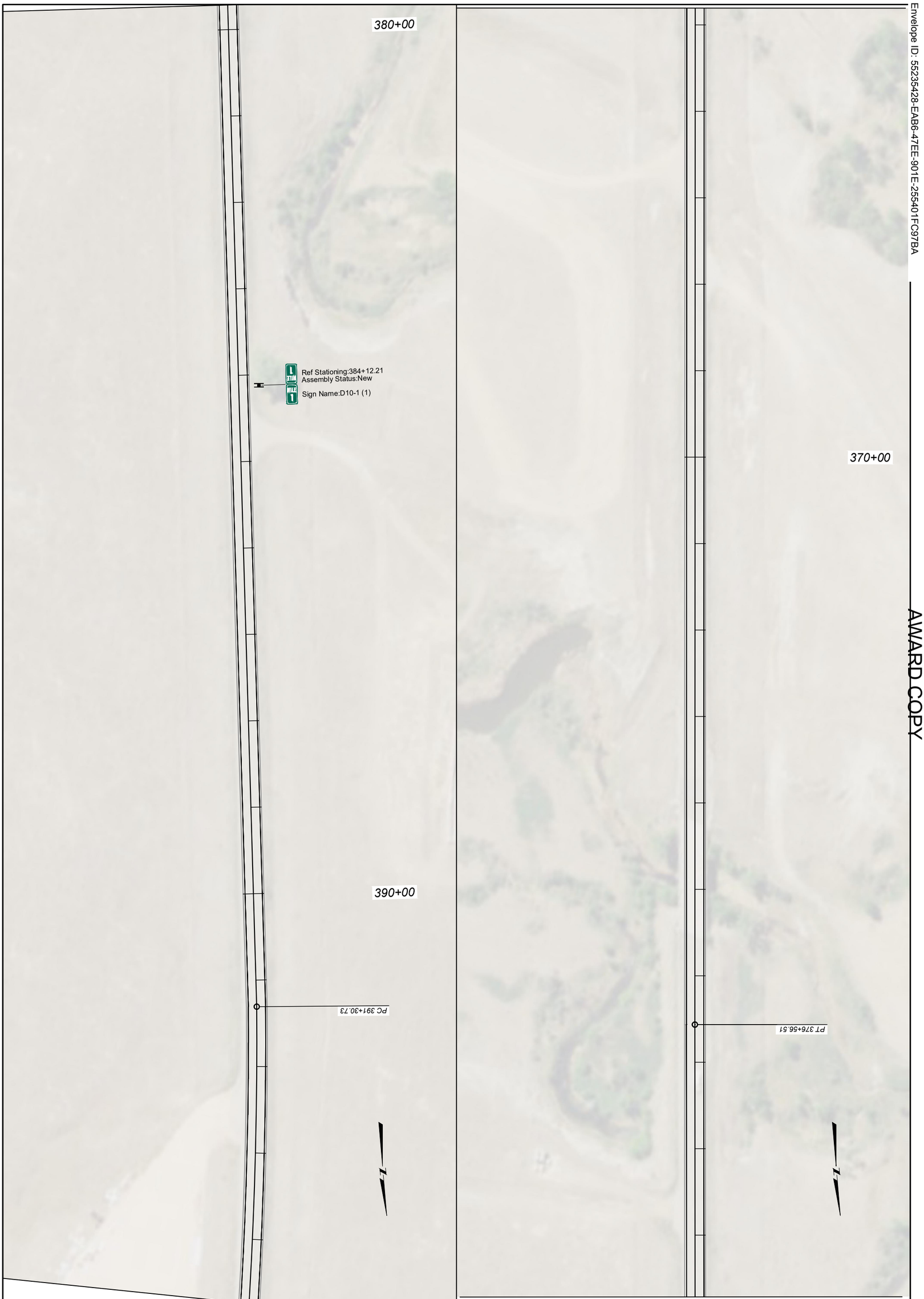
DESIGNED BY	S.MORANO	04/2024	
REVIEWED BY	---	---	
CHECKED BY	N.STYREN	04/2024	

PROJECT NAME **SOUTH OF PLEVNA - SOUTH**
COUNTY **FALLON**
PROJECT ID **STPS 494-1(8)2**
UPN **10277000**

9/10/2024 10:15 AM
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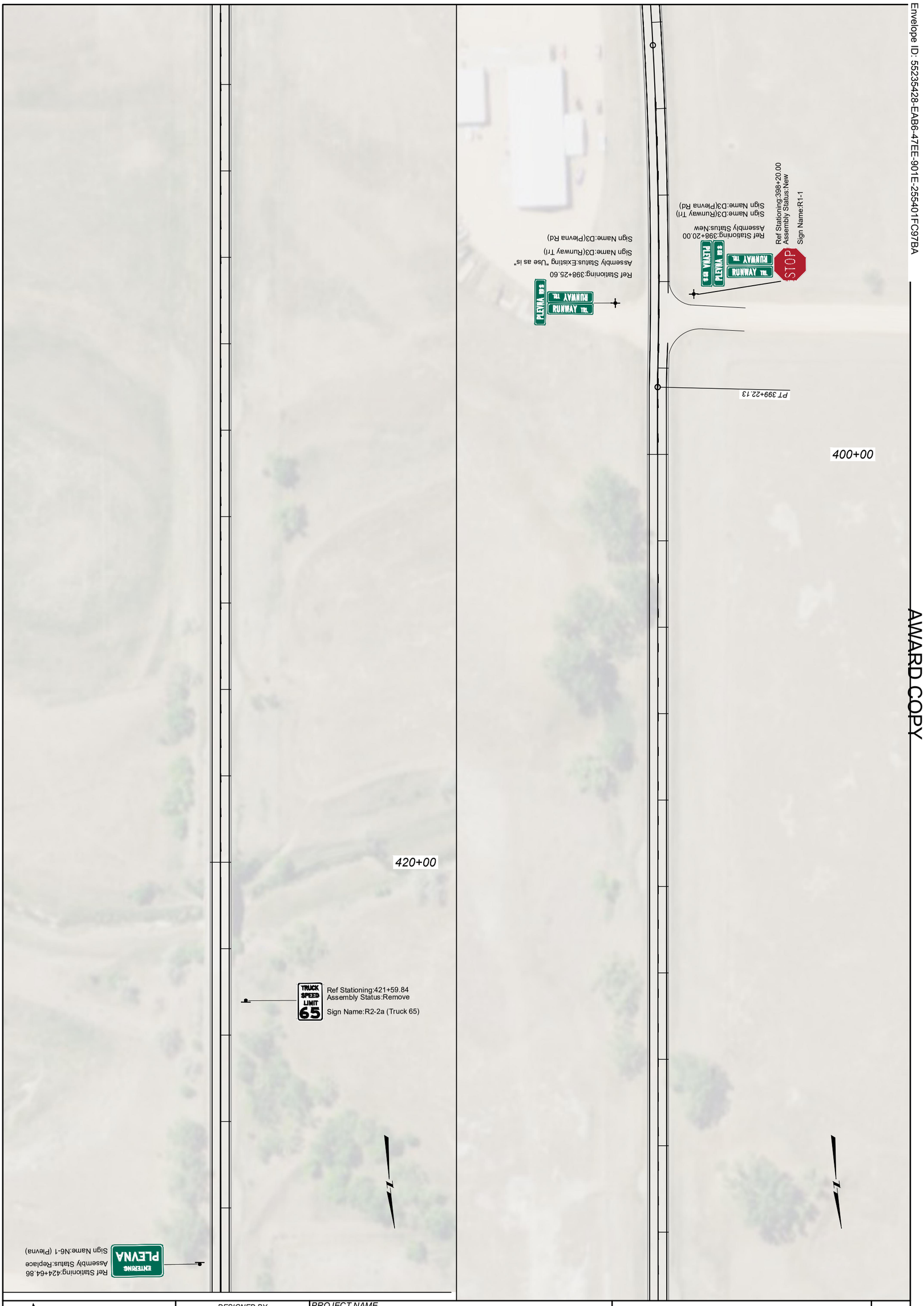
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	S.MORANO 04/2024	SOUTH OF PLEVNA - SOUTH	
	REVIEWED BY	COUNTY	
	---- ----	FALLON	PLAN SHEET
SIGNING PLANS	CHECKED BY	PROJECT ID	SHEET NO.
	N.STYREN 04/2024	STPS 494-1(8)2	S18
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SIGNING PLANS	REVIEWED BY: --- ---	COUNTY: FALLON	SHEET NO. S19
9/10/2024 10:15 AM	CHECKED BY: N.STYREN 04/2024	PROJECT ID: STPS 494-1(8)2	
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SHEET NO.
S20

PLAN SHEET

PROJECT NAME	SOUTH OF PLEVNA - SOUTH
COUNTY	FALLON
PROJECT ID	STPS 494-1(8)2
UPN	10277000

DESIGNED BY		04/2024
S.MORANO		
REVIEWED BY		
----		----
CHECKED BY		04/2024
N.STYREN		

MONTANA
Department of Transportation

SIGNING PLANS

9/10/2024 10:15 AM

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