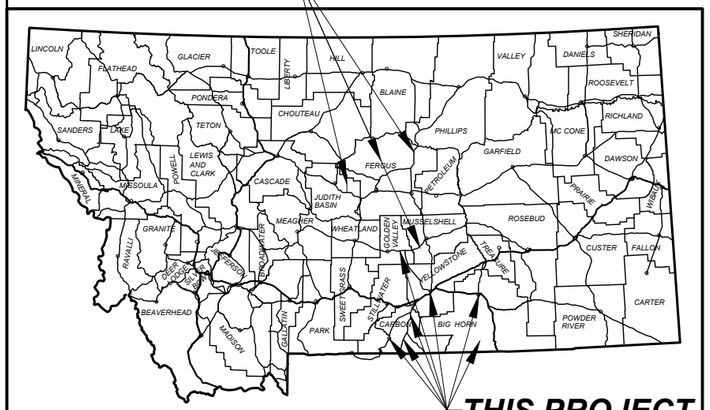
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THIS PROJECT



THIS PROJECT

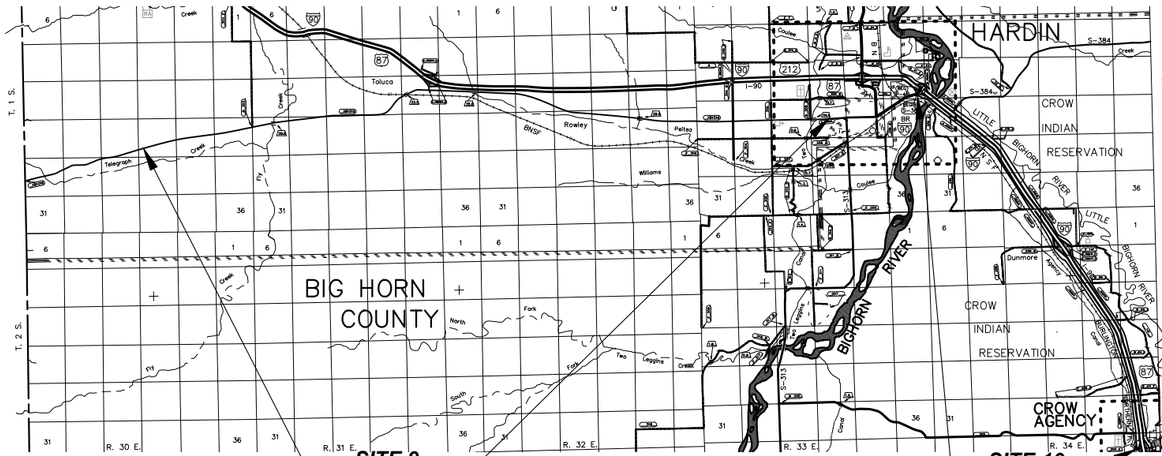
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT HSIP-STPS STWD(931)

ROADSIDE SAFETY IMPROVEMENTS

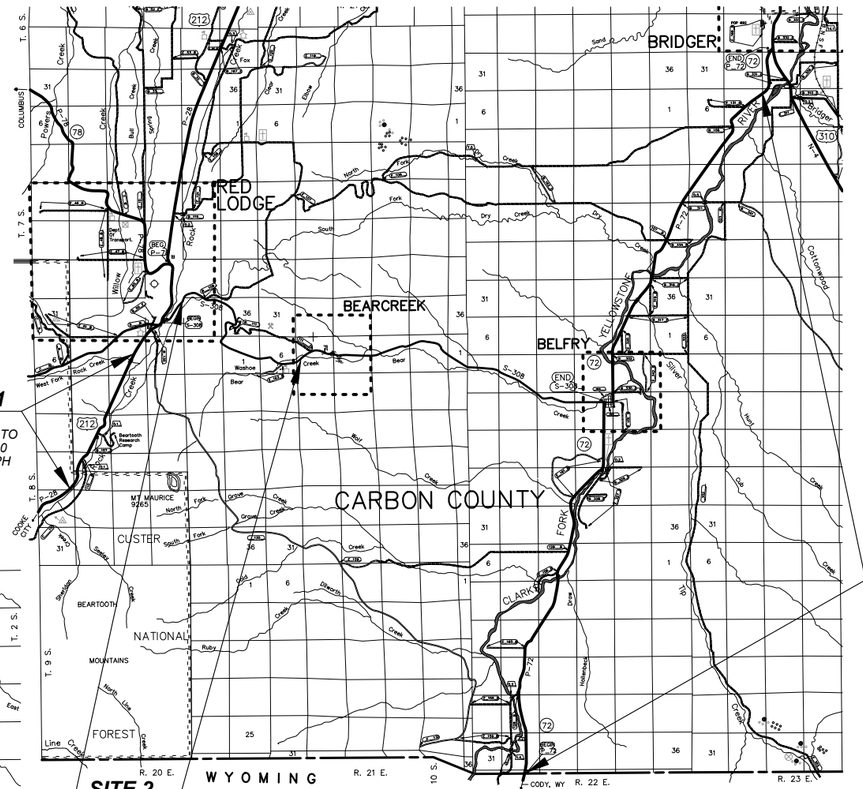
SF 209 BILLINGS DIST SIGNS

BIG HORN, CARBON, FERGUS, GOLDEN VALLEY, JUDITH BASIN, MUSSELSHELL & YELLOWSTONE COUNTIES



SITE 9
OLD HIGHWAY 87
RP 26.097 TO RP 44.600
V = 50 MPH

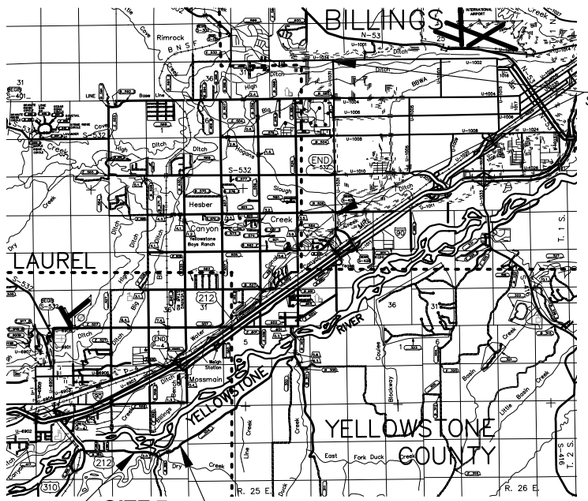
SITE 10
FRONTAGE RD.
RP 0.000 TO RP 10.132
CROW INDIAN RESERVATION
V = 50 MPH



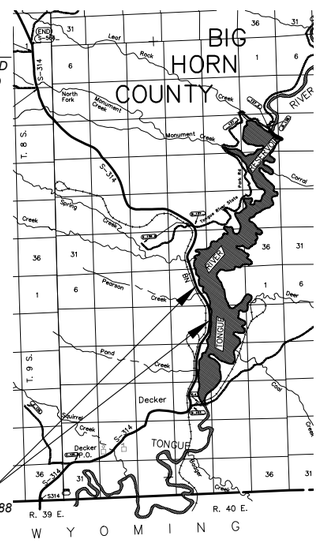
SITE 1
US-212
RP 63.700 TO
RP 67.290
V = 55 MPH

SITE 2
S-308
RP 1.000 TO RP 5.790
V = 50 MPH

SITE 3
MT-72
RP 0.000 TO
RP 20.000
V = 55 MPH

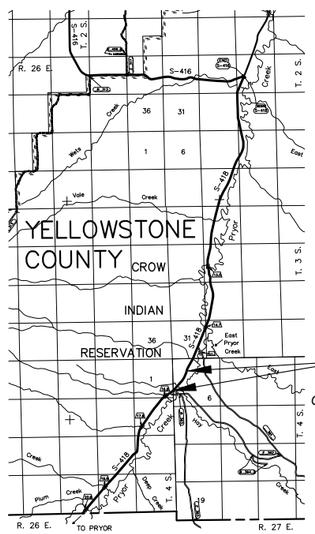


SITE 7
RIVER ROAD
RP 1.600 TO RP 2.500
V = 50 MPH



SITE 8
SHILOH ROAD
RP 0.905 TO
RP 4.379
V = 45 MPH

SITE 4
S-314
RP 7.649 TO RP 8.488
V= 60 MPH



SITE 6
S-418
RP 8.000 TO RP 8.341
CROW INDIAN RESERVATION
V = 60 MPH

RELATED PROJECTS
HSIP STWD(800)

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	HSIP STWD(930)

APPROVED BY:

ROBERT PECCIA AND ASSOCIATES

Signed by:
Staci F. Venner
FE6BFFBA00974C2...
8/29/2024
DATE

MONTANA
STACI F. VENNER
PE-16318
LICENSED PROFESSIONAL ENGINEER

MONTANA DEPARTMENT OF TRANSPORTATION

Signed by:
Gabe B. Priebe
4899FFA75987460...
9/4/2024
TRAFFIC & SAFETY ENGINEER — DATE

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SHEET NO. 1

TITLE SHEET (SHEET 1 OF 2)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	JULY 2024
T. BODLOVIC	
REVIEWED BY	JULY 2024
B. THOMPSON	
CHECKED BY	JULY 2024
S. VENNER	

10299000SITTLZ01.DWG

MONTANA Department of Transportation

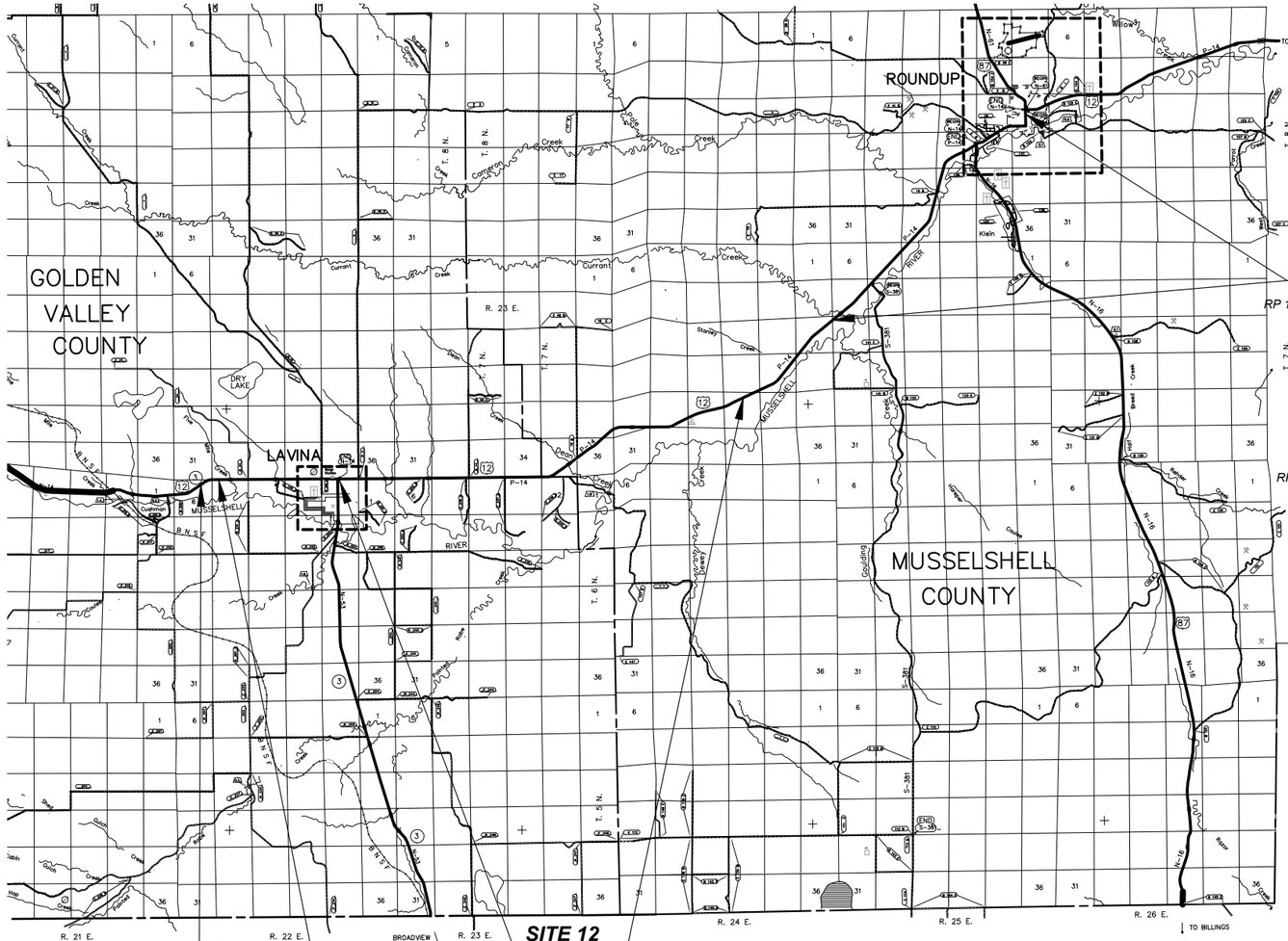
ROAD PLANS

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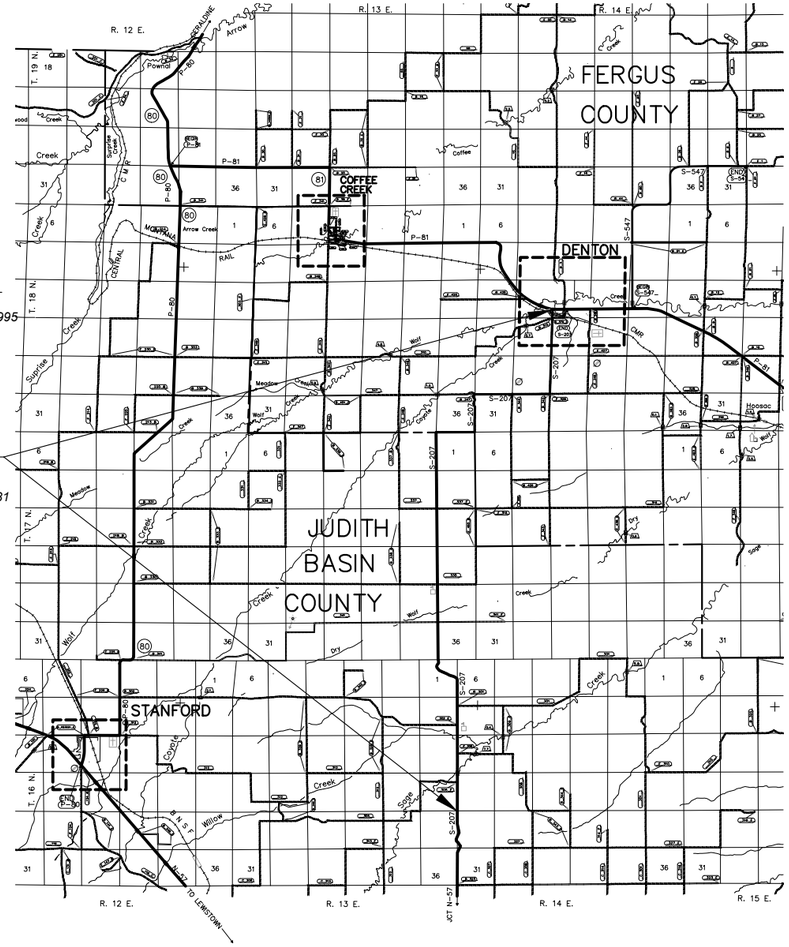


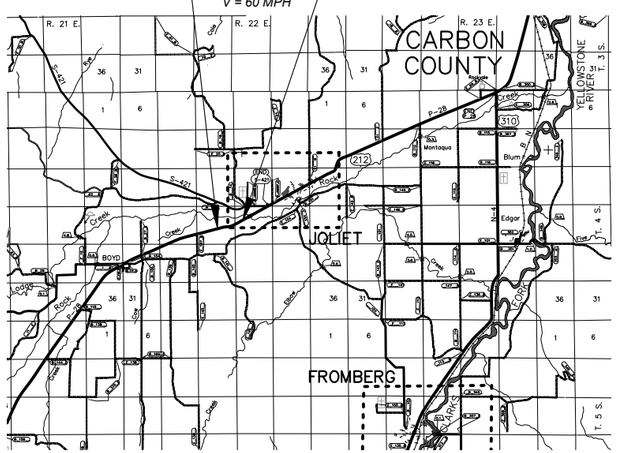
SITE 11
MT-3 / US-12
RP 142.329 TO RP 142.820
V = 50 MPH

SITE 12
US-12
RP 146.100 TO RP 157.800
V = 55 MPH

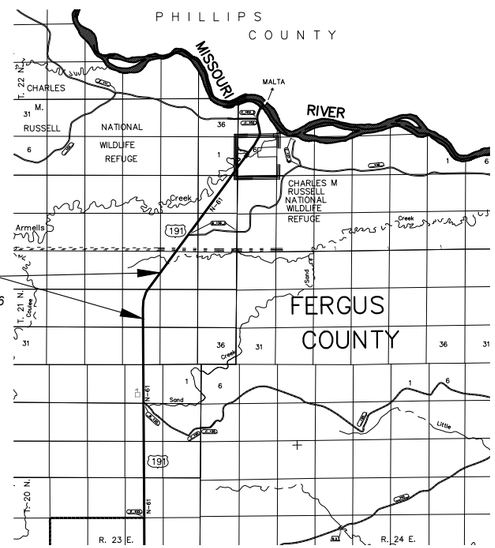
SITE 13
US-12
RP 160.100 TO RP 166.995
V = 55 MPH

SITE 14
BENCHLAND RD.
(S-207)
RP 4.965 TO RP 21.831
V = 50 MPH

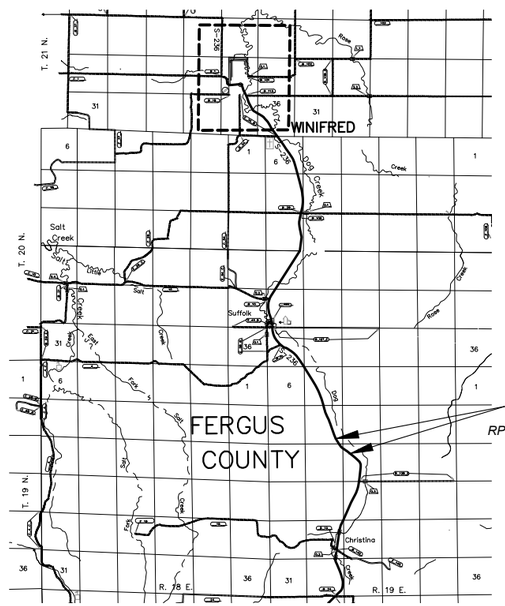




SITE 5
US-212
RP 90.000 TO
RP 90.471
V = 60 MPH



SITE 16
US-191
RP 81.788 TO RP 82.356
V = 60 MPH



SITE 15
S-236
RP 12.503 TO RP 12.661
V = 50 MPH

SHEET NO.
2

TITLE SHEET
(SHEET 2 OF 2)

PROJECT NAME: **SF 209 BILLINGS DIST SIGNS**
COUNTY: **BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE**
PROJECT ID: **HSIP -STPS STWD(931)**
UPN: **10299000**

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNIER	JULY 2024

10299000SITTLZ02.DWG

MONTANA
Department of Transportation

ROAD PLANS

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SUMMARY	S1
SPECIFICATIONS	S2-S18
DETAILS	S19
PLANS	S20-S47

NOTES

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING.

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.

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SHEET NO. 3

TABLE OF CONTENTS, NOTES

SF 209 BILLINGS DIST SIGNS

COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE

PROJECT ID: HSIP -STPS STWD(931)

UPN: 10299000

DESIGNED BY		DATE
T. BODLOVIC		JULY 2024
REVIEWED BY		
B. THOMPSON		JULY 2024
CHECKED BY		
S. VENNER		JULY 2024

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 7	SITE 8	SITE 9	SITE 11	SITE 12	SITE 13	SITE 15	SITE 16	SUBTOTALS SITES 1-16	SITE 6	SITE 10	SITE 14	UNIT
SIGNS-SHEET ALUM SHT INCR XI																	21.0	SQFT
SIGNS-ALUM REFL SHEET XI	18.6	12.6	50.4	175.2	72.6	37.8	377.2		12.6			62.6	12.6	832.2	92.6		395.6	SQFT
REMOVE SIGN					2	1	64							67			36	EACH
POLES-TREATED WOOD 4 IN	28.0	28.0	112.0	56.0	28.0	70.0			28.0			28.0	28.0	406.0	28.0		454.0	LNFT
POLES-TREATED WOOD 5 IN				210.0	84.0							70.0		364.0	112.0		196.0	LNFT
PANEL DELINEATOR DESIGN A									22				26	48				EACH
DELINEATOR TYPE 1						45		555		366	216			1,182		292	516	EACH
DELINEATOR TYPE 2						22								22			141	EACH

DELINEATOR LEGEND

	SITE 7	SITE 9	SITE 10	SITE 11	SITE 12	SITE 13	SITE 14	SITE 16	TOTAL
DELINEATOR DES "A"	39	537	280		356	206	500		1,918
DELINEATOR DES "C"	22						141		163
DELINEATOR DES "D"	2	18	12		10	10	6		58
DELINEATOR DES "F"	4						10		14
PANEL DELINEATOR DESIGN "A"				22				26	48

X = STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.

RSFO = REPLACE SIGN FACE ONLY

FY = FLUORESCENT YELLOW SHEETING REQUIRED.

FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

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

SHEET NO. S1

SIGNING & DELINEATION SUMMARY

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

MONTANA Department of Transportation

SIGNING PLANS

PROJECT NAME SF 209 BILLINGS DIST SIGNS
COUNTY BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID HSIP-STPS STWD(931)
UPN 10299000

DESIGNED BY		DATE
T. BODLOVIC		JULY 2024
REVIEWED BY		JULY 2024
B. THOMPSON		
CHECKED BY		JULY 2024
S. VENNER		

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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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET					CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
SITE 1 - US 212																																							
63.700		NB		W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.58		3.0	13.83					6.3		14.00										WILDLIFE CROSSING	NEW = W11-13
		X																																				
				W7-3A	24	X	18	XI																		3.0											NEXT 5 MILES	NEW = W7-3A
67.200		SB		R1-1																																		STOP	USE AS IS = STOP
X																																							
67.290		SB		W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.58		3.0	13.83					6.3		14.00										WILDLIFE CROSSING	NEW = W11-13
X																																							
				W7-3A	24	X	18	XI																		3.0											NEXT 5 MILES	NEW = W7-3A
SITE 2 - S 308																																							
1.000		NB		W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00										WILDLIFE CROSSING	NEW = W11-13
		X																																				
1.000		SB		(2) W1-8																																			CHEVRON	USE AS IS = W1-8
X																																							
1.032		SB		(2) W1-8																																			CHEVRON	USE AS IS = W1-8
X																																							
1.064		SB		(2) W1-8																																			CHEVRON	USE AS IS = W1-8
X																																							
1.096		SB		(2) W1-8																																			CHEVRON	USE AS IS = W1-8
X																																							
5.790		NB		S3-1																																			SCHOOL BUS STOP	USE AS IS = S3-1
		X																																					
5.790		SB		W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00										WILDLIFE CROSSING	NEW = W11-13
X																																							
SITE 3 - MT 72																																							
0.000		NB		W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0						6.3		14.00										WILDLIFE CROSSING	NEW = W11-13
		X																																				
0.012		NB		N6-4B																																			WELCOME TO MONTANA	USE AS IS = N6-4B
		X																																					

SHEET NO. S2

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS

COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE

PROJECT ID: HSIP-STPS STWD(931)

UPN: 10299000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. BODLOVIC	B. THOMPSON	S. VENNER
JULY 2024	JULY 2024	JULY 2024

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MONTANA Department of Transportation

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RPA

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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)			REFLECTIVE SHEETING TYPE		F'Y OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
0.021		NB																																			
		X		R99-1																																	ALL WATERCRAFT	USE AS IS = ALL WATERCRAFT MUST BE INSPECTED BEFORE ENTERING ANY MONTANA WATERWAY
0.032		NB																																			
		X		N7-1																																	ADOPT A HIGHWAY	USE AS IS = N7-1
				N7-1P																																	SUPP TO N7-1	USE AS IS = PIONEER SCHOOL CLARK WYOMING
0.047		NB																																			
		X		R16-1																																	BUCKLE UP	USE AS IS = BUCKLE UP
5.000		NB																																			
		X		(2) D10-1																																	MILE MARKER (5)	USE AS IS = D10-1
5.000		NB																																			
		X		W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00									WILDLIFE CROSSING	NEW = W11-13
5.000		SB																																			
X				W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00									WILDLIFE CROSSING	NEW = W11-13
9.964		NB																																			
		X		W3-5																																	REDUCED SPEED	USE AS IS = W3-5
9.985		NB																																			
		X		W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00									WILDLIFE CROSSING	NEW = W11-13
9.985		SB																																			
X				W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00									WILDLIFE CROSSING	NEW = W11-13
10.000		NB																																			
		X		(2) D10-2																																	MILE MARKER (10)	USE AS IS = D10-2
10.005		NB																																			
		X		N7-1																																	ADOPT A HIGHWAY	USE AS IS = N7-1
				N7-1P																																	SUPP TO N7-1	USE AS IS = BELFRY BUSY BEAVERS 4 H CLUB
15.000		NB																																			
		X		(2) D10-2																																	MILE MARKER (15)	USE AS IS = D10-2
15.000		NB																																			
		X		W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00									WILDLIFE CROSSING	NEW = W11-13
15.000		SB																																			
X				W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00									WILDLIFE CROSSING	NEW = W11-13
20.000		NB																																			
		X		(2) D10-2																																	MILE MARKER (20)	USE AS IS = D10-2
20.000		SB																																			
X				W11-13	30	X	30	XI						10.00		4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00									WILDLIFE CROSSING	NEW = W11-13

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING
RPA

SHEET NO. S3

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 2024

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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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET					CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
SITE 4 - S-314																																					
7.649		NB																																		CURVE ARROW-LEFT	NEW = W1-2L
		X		W1-2L	30	X	30	XI		FY						4" Treated Wood Pole	5.00		3.0	13.00					6.3		14.00									
7.687		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
7.725		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
7.763		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
7.801		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
7.839		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
7.877		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
7.915		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
7.953		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
7.991		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
8.000		NB																																		MILE MARKER (8)	USE AS IS = D10-1
		X		(2) D10-1																																	
8.029		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
8.048		SB																																		CURVE ARROW-RIGHT	NEW = W1-2R
X				W1-2R	30	X	30	XI		FY						4" Treated Wood Pole	5.00		3.0	13.00					6.3		14.00									
8.279		NB																																		CURVE ARROW-RIGHT	NEW = W1-2R
		X		W1-2R	30	X	30	XI		FY						4" Treated Wood Pole	5.00		3.0	13.00					6.3		14.00									
8.317		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
8.355		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
8.393		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
8.431		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
8.469		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole	5.00		3.5	12.50			X		10.0			14.00								
8.488		SB																																		CURVE ARROW-LEFT	NEW = W1-2L
X				W1-2L	30	X	30	XI		FY						4" Treated Wood Pole	5.00		3.0	13.00					6.3		14.00									

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SHEET NO. S4

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE	CHECKED BY	DATE
T. BODLOVIC	JULY 2024	S. VENNER	JULY 2024
REVIEWED BY	DATE		
B. THOMPSON	JULY 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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET					CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
SITE 5 - US 212																																					
90.000		NB																																		MILE MARKER (90)	USE AS IS = D10-2
		X		(2) D10-2																																	
90.123		SB																																		NO PASSING ZONE	USE AS IS = W14-3
X				W14-3																																	
90.196		NB																																		CURVE ARROW-RIGHT	REPLACE = W1-2R
		X		W1-2R	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00						1			
90.256		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
90.294		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
90.332		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
90.370		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
90.408		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
90.446		SB																																		CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
90.471		SB																																		CURVE ARROW-LEFT	REPLACE = W1-2L
X				W1-2L	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00						1			
SITE 6 - S-418																																					
8.000		NB																																		MILE MARKER (8)	USE AS IS = D10-1
		X		(2) D10-1																																	
8.018		NB																																		CURVE ARROW-LEFT	NEW = W1-2L
		X		W1-2L	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00									
8.056		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
8.094		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
8.132		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
8.170		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
8.208		NB																																		CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								

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SHEET NO. S5

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 2024

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MONTANA Department of Transportation

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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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / 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.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	SLOPE		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		
8.246		NB														5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00									CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY																												
8.275		SB																																						
X				R4-2																																		PASS WITH CARE	USE AS IS = R4-2
8.284		NB														5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00									CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY																												
8.322		NB														5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00									CHEVRON	NEW = W1-8
		X		(2) W1-8	24	X	30	XI		FY																												
8.341		SB														4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00										CURVE ARROW-RIGHT	NEW = W1-2L
X				W1-2R	30	X	30	XI		FY																												
SITE 7 - RIVER RD																																							
1.638		EB														4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00										CURVE ARROW-RIGHT	NEW = W1-2R
		X		W1-2R	30	X	30	XI		FY																												
1.722		WB														4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00										CURVE ARROW-LEFT	NEW = W1-2L
X				W1-2L	30	X	30	XI		FY																												
1.919		WB																																						
X				R2-1																																		SPEED LIMIT 45	USE AS IS = R2-1
1.959		EB														4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00										SIDE ROAD-RT	NEW = W2-2R
		X		W2-2R	30	X	30	XI																														
																																					ADVANCED STREET	NEW = W16-8 (SPRING CREEK RD)
				W16-8	36	X	8	XI																														
1.962		EB																																						
		X		OM-3L																																		OBJECT MARKER-LT	USE AS IS = OM-3L
1.962		WB																																						
X				OM-3R																																		OBJECT MARKER-RT	USE AS IS = OM-3R
1.978		EB														4" Treated Wood Pole		5.00		3.0	13.58					6.3		14.00							1			MULTIPLE CURVES ARROW-LT	REPLACE = W1-5L
				W13-1	18	X	18	XI		FY																	2.3												30 MPH	REPLACE = W13-1
2.008		EB																																						
		X		OM-3R																																		OBJECT MARKER-RT	USE AS IS = OM-3R
2.008		WB																																						
X				OM-3L																																		OBJECT MARKER-LT	USE AS IS = OM-3L
2.041		WB																																						
X				W1-7A																																		DIRECT ARRW (LRG) w/BORDER	USE AS IS = W1-7A
2.080		EB																																						
		X		D3-1																																		STREET NAME	USE AS IS = RIVER RD
				D3-1																																		STREET NAME	USE AS IS = THEIL RD

SHEET NO. S6

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. BODLOVIC	B. THOMPSON	S. VENNER
JULY 2024	JULY 2024	JULY 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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
				D3-1																																	STREET NAME	USE AS IS = SPRING CREEK RD
				R1-1																																	STOP	USE AS IS = R1-1
2.084		EB																																			OBJECT MARKER-LT	
		X		OM-3L																																		USE AS IS = OM-3L
2.085		WB																																				
X				CNTY-1																																	COUNTY SIGN	USE AS IS = NO THRU TRUCK TRAFFIC
				M6-1R																																	DIRECTIONAL ARROW-RT	USE AS IS = M6-1R
2.092		WB																																			OBJECT MARKER-LT	
X				OM-3L																																		USE AS IS = OM-3L
2.095		EB																																			OBJECT MARKER-RT	
		X		OM-3R																																		USE AS IS = OM-3R
2.148		WB																																				
X				W2-2L	30	X	30	XI								4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00								SIDE ROAD-LT	NEW = W2-2L
				W16-8	36	X	8	XI																				2.0									ADVANCED STREET	NEW = W16-8 (SPRING CREEK RD)

SITE 8 - SHILOH RD

0.905		SB																																			
		X		R1-2	36	X	36	XI					RSFO														3.9								1			YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																			2.9											TO BOTH LANES	REPLACE = R99-1 MOUNT ON EXISTING SIGN POLE
0.905		SB																																			
		X		(2) D3-1																																		STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO														3.9								1			YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																			2.9											TO BOTH LANES	REPLACE = R99-1 MOUNT ON EXISTING SIGN POLE
0.913		NB																																			
X				R1-2	36	X	36	XI					RSFO														3.9								1			YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																			2.9											TO BOTH LANES	REPLACE = R99-1 MOUNT ON EXISTING SIGN POLE
0.922		SB																																			
		X		(2) D3-1																																		STREET NAME	USE AS IS = GRAND AVE
				R1-2	36	X	36	XI					RSFO														3.9								1			YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																			2.9											TO BOTH LANES	REPLACE = R99-1 MOUNT ON EXISTING SIGN POLE

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING
RPA

SHEET NO. S7

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. BODLOVIC	B. THOMPSON	S. VENNER
JULY 2024	JULY 2024	JULY 2024

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MONTANA Department of Transportation

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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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
0.922		NB																																			
X				(2) D3-1																																	STREET NAME	USE AS IS = GRAND AVE
				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	REPLACE = R99-1 MOUNT ON EXISTING SIGN POLE
0.930		SB																																			
		X		R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	REPLACE = R99-1 MOUNT ON EXISTING SIGN POLE
0.939		NB																																			
X				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	REPLACE = R99-1 MOUNT ON EXISTING SIGN POLE
0.939		NB																																			
X				(2) D3-1																																	STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	REPLACE = R99-1 MOUNT ON EXISTING SIGN POLE
1.515		SB																																			
		X		R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
1.515		SB																																			
		X		(2) D3-1																																	STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
1.524		NB																																			
X				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
1.532		SB																																			
		X		(2) D3-1																																	STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE

SHEET NO. S8

SIGN SPECIFICATIONS

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. BODLOVIC JULY 2024	B. THOMPSON JULY 2024	S. VENNER JULY 2024

10299000SISUM201.DWG

MONTANA Department of Transportation

SIGNING PLANS

7/22/2024 9:03 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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
1.532		NB																																			
X				(2) D3-1																																	STREET NAME	USE AS IS = BROADWATER AVE
				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
1.540		SB																																			
		X		R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
1.549		NB																																			
X				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
1.549		NB																																			
X				(2) D3-1																																	STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
1.986		SB																																			
		X		R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
1.986		SB																																			
		X		(2) D3-1																																	STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
1.995		NB																																			
X				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
2.003		SB																																			
		X		(2) D3-1																																	STREET NAME	USE AS IS = CENTRAL AVE
				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
2.003		NB																																			
X				(2) D3-1																																	STREET NAME	USE AS IS = CENTRAL AVE
				R1-2	36	X	36	XI					RSFO													3.9							1				YIELD	RSFO = YIELD

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING
RPA

SHEET NO. S9

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. BODLOVIC	B. THOMPSON	S. VENNER
JULY 2024	JULY 2024	JULY 2024

10299000SISUMZ01.DWG

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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
				R99-1	42	X	10	XI																		2.9										TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
2.012		SB																																				
		X		R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9										TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
2.020		NB																																				
X				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9										TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
2.020		NB																																				
X				(2) D3-1																																		STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9										TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
2.536		SB																																				
		X		R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
2.536		SB																																				
		X		(2) D3-1																																		STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
2.543		NB																																				
X				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9										TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
2.553		SB																																				
		X		(2) D3-1																																		STREET NAME	USE AS IS = MONAD RD
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9										TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
2.553		NB																																				
X				(2) D3-1																																		STREET NAME	USE AS IS = MONAD RD
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9										TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SHEET NO.
S10

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
2.562		SB																																			
		X		R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
2.570		NB																																				
X				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
2.570		NB																																				
X				(2) D3-1																																		STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
3.049		SB																																				
		X		R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.049		SB																																				
		X		(2) D3-1																																		STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.057		NB																																				
X				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.066		SB																																				
		X		(2) D3-1																																		STREET NAME	USE AS IS = KING AVE W
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.066		NB																																				
X				(2) D3-1																																		STREET NAME	USE AS IS = KING AVE W
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.075		SB																																				
		X		R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SHEET NO. S11

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 2024

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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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / 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.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	SLOPE		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		
3.083		NB																																					
X				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.083		NB																																					
X				(2) D3-1																																			STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.508		SB																																					
		X		R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
3.508		SB																																					
		X		(2) D3-1																																			STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
3.512		NB																																					
X				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.518		SB																																					
		X		R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.518		NB																																					
X				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.526		SB																																					
		X		R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																		2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
3.531		NB																																					
X				R1-2	36	X	36	XI					RSFO													3.9								1				YIELD	RSFO = YIELD

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING
RPA

SHEET NO. S12

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
3.531		NB																																					
X				(2) D3-1																																		STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO														3.9							1				YIELD	RSFO = YIELD
4.038		SB																																					
		X		R1-2	36	X	36	XI					RSFO														3.9							1				YIELD	RSFO = YIELD
4.038		SB																																					
		X		(2) D3-1																																		STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO														3.9							1				YIELD	RSFO = YIELD
4.043		NB																																					
X				R1-2	36	X	36	XI					RSFO														3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																			2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
4.052		SB																																					
		X		(2) D3-1																																		STREET NAME	USE AS IS = HESPER RD
				R1-2	36	X	36	XI					RSFO														3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																			2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
4.052		NB																																					
X				(2) D3-1																																		STREET NAME	USE AS IS = HESPER RD
				R1-2	36	X	36	XI					RSFO														3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																			2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
4.061		SB																																					
		X		R1-2	36	X	36	XI					RSFO														3.9							1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																			2.9											TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
4.067		NB																																					
X				R1-2	36	X	36	XI					RSFO														3.9							1				YIELD	RSFO = YIELD
4.067		NB																																					
X				(2) D3-1																																		STREET NAME	USE AS IS = SHILOH RD
				R1-2	36	X	36	XI					RSFO														3.9							1				YIELD	RSFO = YIELD

SHEET NO. S13

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS

COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE

PROJECT ID: HSIP-STPS STWD(931)

UPN: 10299000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 2024

10299000SISUM201.DWG

MONTANA Department of Transportation

SIGNING PLANS

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ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING
RPA

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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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / 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.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	SLOPE	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		
4.345		SB		R1-2	36	X	36	XI					RSFO														3.9								1				YIELD	RSFO = YIELD
		X																																					
4.345		SB		(2) D3-1																																			STREET NAME	USE AS IS = SHILOH RD
		X																																					
				R1-2	36	X	36	XI					RSFO														3.9								1				YIELD	RSFO = YIELD
4.355		NB		R1-2	36	X	36	XI					RSFO														3.9								1				YIELD	RSFO = YIELD
X																																								
4.362		SB		R1-2	36	X	36	XI					RSFO														3.9								1				YIELD	RSFO = YIELD
		X																																					
				R99-1	42	X	10	XI																			2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
4.365		NB		(2) D3-1																																			STREET NAME	USE AS IS = ZOO DR
X																																							
				R1-2	36	X	36	XI					RSFO														3.9								1				YIELD	RSFO = YIELD
4.370		SB		R1-2	36	X	36	XI					RSFO														3.9								1				YIELD	RSFO = YIELD
		X																																					
				R99-1	42	X	10	XI																			2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
4.379		NB		R1-2	36	X	36	XI					RSFO														3.9								1				YIELD	RSFO = YIELD
X																																								
				R99-1	42	X	10	XI																			2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
4.379		NB		(2) D3-1																																			STREET NAME	USE AS IS = SHILOH RD
X																																							
				R1-2	36	X	36	XI					RSFO														3.9								1				YIELD	RSFO = YIELD
				R99-1	42	X	10	XI																			2.9												TO BOTH LANES	NEW = R99-1 MOUNT ON EXISTING SIGN POLE
SITE 11 - MT 3/US 12																																								
142.435		EB		W1-2R	30	X	30	XI		FY					4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00										CURVE ARROW-RIGHT	NEW = W1-2R
		X																																					
142.687		WB		W1-2L	30	X	30	XI		FY					4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00										CURVE ARROW-LEFT	NEW = W1-2L
X																																								
142.692		EB		W14-3																																			NO PASSING ZONE	USE AS IS = W14-3
		X																																					

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SHEET NO.
S14

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	CHECKED BY	DRAWN BY	REVIEWED BY
T. BODLOVIC	S. VENNER	S. VENNER	B. THOMPSON
JULY 2024	JULY 2024	JULY 2024	JULY 2024

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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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / 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.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	SLOPE	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		
SITE 14 - BENCHLAND RD																																							
6.559		NB																																				STREET NAME	REPLACE = BENCHLAND RD
		X		(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	10.75					5.8		12.00						1					
				(2) D3-1	42	X	10	XI																			5.8												STREET NAME	REPLACE = LOUSE CRK RD
7.281		SB																																				STREET NAME	REPLACE = BENCHLAND RD
X				(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	10.75					5.8		12.00						1					
				(2) D3-1	36	X	10	XI																			5.0												STREET NAME	REPLACE = SAGE CRK RD
7.792		SB																																				DIRECT ARRW (LRG) w/BORDER	
X				W1-7A	72	X	42	XI		FY				10.00		5" Treated Wood Pole	3'-8"	5.00		3.5	13.50	13.50		X			21.00	28.00						1					REPLACE = W1-7A
7.800		NB																																				STREET NAME	REPLACE = BENCHLAND RD
		X		(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	11.42					5.8		12.00						1					
				(2) D3-1	36	X	18	XI																			9.0												STREET NAME	REPLACE = LOWER SAGE CRK RD
8.471		NB																																				CURVE ARROW-LEFT	
		X		W1-2L	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00						1					REPLACE = W1-2L
8.652		SB																																				CURVE ARROW-RIGHT	
X				W1-2R	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00						1					REPLACE = W1-2R
9.094		NB																																				MULTIPLE CURVES ARROW-RT	
		X		W1-5R	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	14.58					6.3		16.00											NEW = W1-5R
				W13-1	18	X	18	XI		FY																	2.3												35 MPH	NEW = W13-1
9.113		SB																																				CHEVRON	
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0		14.00											NEW = W1-8
9.128		SB																																				CHEVRON	
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0		14.00											NEW = W1-8
9.143		SB																																				CHEVRON	
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0		14.00											NEW = W1-8
9.158		SB																																				CHEVRON	
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0		14.00											NEW = W1-8
9.173		SB																																				CHEVRON	
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0		14.00											NEW = W1-8
9.181		SB																																				CHEVRON	
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0		14.00											NEW = W1-8
9.189		SB																																				CHEVRON	
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0		14.00						1					REPLACE = W1-8
9.197		SB																																				CHEVRON	
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0		14.00						1					REPLACE = W1-8

ROBERT PECCIA & ASSOCIATES
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SHEET NO. S15

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY		REVIEWED BY		CHECKED BY	
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 2024

MONTANA Department of Transportation

SIGNING PLANS

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STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
9.492		SB																																		MULTIPLE CURVES ARROW-LT	
X				W1-5L	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	14.58					6.3		16.00						1				REPLACE = W1-5R
				W13-1	18	X	18	XI		FY																2.3											35 MPH	NEW = W13-1
11.369		NB																																			
		X		S3-1	30	X	30	XI		FYG				10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00						1				SCHOOL BUS STOP	REPLACE = S3-1
11.417		SB																																			
X				(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	13.42					5.8		14.00						1				STREET NAME	REPLACE = BENCHLAND RD
				(2) D3-1	42	X	10	XI																		5.8											STREET NAME	REPLACE = COYOTE CRK RD
				R1-2	36	X	36	XI																		3.9											YIELD	REPLACE = R1-2
11.426		NB																																			
		X		(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	10.75					5.8		12.00						1				STREET NAME	REPLACE = BENCHLAND RD
				(2) D3-1	42	X	10	XI																		5.8											STREET NAME	REPLACE = COYOTE CRK RD
11.506		SB																																			
X				S3-1	30	X	30	XI		FYG				10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00						1				SCHOOL BUS STOP	REPLACE = S3-1
13.496		SB																																			
X				(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	13.42					5.8		14.00						1				STREET NAME	REPLACE = BENCHLAND RD
				(2) D3-1	36	X	10	XI																		5.0											STREET NAME	REPLACE = HOOSAC RD
				R1-2	36	X	36	XI																		3.9											YIELD	REPLACE = R1-2
13.507		NB																																			
		X		(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	13.42					5.8		14.00						1				STREET NAME	REPLACE = BENCHLAND RD
				(2) D3-1	36	X	10	XI																		5.0											STREET NAME	REPLACE = HOOSAC RD
				R1-2	36	X	36	XI																		3.9											YIELD	REPLACE = R1-2
15.437		NB																																			
		X		W1-2R	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00						1				CURVE ARROW-RIGHT	REPLACE = W1-2R
15.456		SB																																			
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50				X	10.0			14.00									CHEVRON	NEW = W1-8
15.471		SB																																			
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50				X	10.0			14.00					1				CHEVRON	REPLACE = W1-8
15.486		SB																																			
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50				X	10.0			14.00					1				CHEVRON	REPLACE = W1-8
15.501		SB																																			
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50				X	10.0			14.00					1				CHEVRON	REPLACE = W1-8
15.516		SB																																			
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50				X	10.0			14.00									CHEVRON	NEW = W1-8

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SHEET NO. S16

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY		REVIEWED BY		CHECKED BY	
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 2024

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STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
15.531		SB																						X														
X				(2) W1-8	24	X	30	XI		FY						5" Treated Wood Pole		5.00		3.5	12.50						10.0			14.00								CHEVRON	NEW = W1-8
15.550		SB																																				
X				W1-2L	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00								CURVE ARROW-LEFT	NEW = W1-2L
16.412		NB																																				
		X		W1-2L	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00					1				CURVE ARROW-LEFT	REPLACE = W1-2L
16.540		SB																																				
X				W1-2R	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00					1				CURVE ARROW-RIGHT	REPLACE = W1-2R
17.387		NB																																				
		X		W1-10BR	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00									RIGHT CURVE WITH FORK	NEW = W1-10BR
17.420		SB																																				
X				(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	9.83						5.8		10.00					1				STREET NAME	REPLACE = BENCHLAND RD
17.474		SB																																				
X				(2) D3-1	36	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	9.83						5.0		10.00					1				STREET NAME	REPLACE = PIONEER RD
17.500		SB																																				
X				W1-10BL	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00					1				LEFT CURVE WITH FORK	REPLACE = W1-10BL
19.385		NB																																				
		X		W1-10BL	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00					1				LEFT CURVE WITH FORK	REPLACE = W1-10BL
19.406		NB																																				
		X		(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	9.83						5.8		10.00					1				STREET NAME	REPLACE = BENCHLAND RD
19.458		NB																																				
		X		(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	9.83						5.8		10.00					1				STREET NAME	REPLACE = IOWA BENCH RD
19.484		SB																																				
X				W1-10BR	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00					1				RIGHT CURVE WITH FORK	REPLACE = W1-10BR
21.352		NB																																				
		X		W1-10BR	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00					1				RIGHT CURVE WITH FORK	REPLACE = W1-10BR
21.367		SB																																				
X				(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	9.83						5.8		10.00					1				STREET NAME	REPLACE = BENCHLAND RD
21.420		SB																																				
X				(2) D3-1	30	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	9.83						4.2		10.00					1				STREET NAME	REPLACE = LOWER RD
21.452		SB																																				
X				W1-10BL	30	X	30	XI		FY						4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00					1				LEFT CURVE WITH FORK	REPLACE = W1-10BL
21.605		NB																																				
		X		W1-2L	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00					1				CURVE ARROW-LEFT	REPLACE = W1-2L
21.723		SB																																				
X				W1-2R	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	13.00						6.3		14.00					1				CURVE ARROW-RIGHT	REPLACE = W1-2R
21.729		SB																																				
X				(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	9.83						5.8		10.00					1				STREET NAME	REPLACE = BENCHLAND RD
21.757		SB																																				
X				(2) D3-1	42	X	10	XI						6.00		4" Treated Wood Pole		5.00		3.0	9.83						5.8		10.00					1				STREET NAME	REPLACE = BENCHLAND RD

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SHEET NO. S17

SIGN SPECIFICATIONS

PROJECT NAME SF 209 BILLINGS DIST SIGNS
COUNTY BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID HSIP-STPS STWD(931)
UPN 10299000
DESIGNED BY T. BODLOVIC JULY 2024
REVIEWED BY B. THOMPSON JULY 2024
CHECKED BY S. VENNER JULY 2024
10299000SISUMZ01.DWG

MONTANA Department of Transportation

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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)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET					CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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		
SITE 15 - S-236																																							
12.503		NB																																			CURVE ARROW-RIGHT	NEW = W1-2R
		X		W1-2R	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00									
12.522		SB																																			CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
12.552		SB																																			CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
12.582		SB																																			CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
12.612		SB																																			CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
12.642		SB																																			CHEVRON	NEW = W1-8
X				(2) W1-8	24	X	30	XI		FY				10.00		5" Treated Wood Pole		5.00		3.5	12.50			X		10.0			14.00								
12.661		SB																																			CURVE ARROW-LEFT	NEW = W1-2L
X				W1-2L	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00									
SITE 16 - US-191																																							
81.788		NB																																			CURVE ARROW-RIGHT	NEW = W1-2R
		X		W1-2R	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00									
81.832		SB																																			NO PASSING ZONE	USE AS IS = W14-3
X				W14-3																																			
82.000		NB																																			MILE MARKER (82)	USE AS IS = D10-2
		X		(2) D10-2																																			
82.216		NB																																			NO PASSING ZONE	USE AS IS = W14-3
		X		W14-3																																			
82.356		SB																																			CURVE ARROW-LEFT	NEW = W1-2L
X				W1-2L	30	X	30	XI		FY				10.00		4" Treated Wood Pole		5.00		3.0	13.00					6.3		14.00									
																TOTAL									1320.4	21.0	888.0	672.0					103					

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SHEET NO.
S18

SIGN SPECIFICATIONS

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE
PROJECT ID: HSIP-STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 2024

MONTANA
Department of Transportation

SIGNING PLANS

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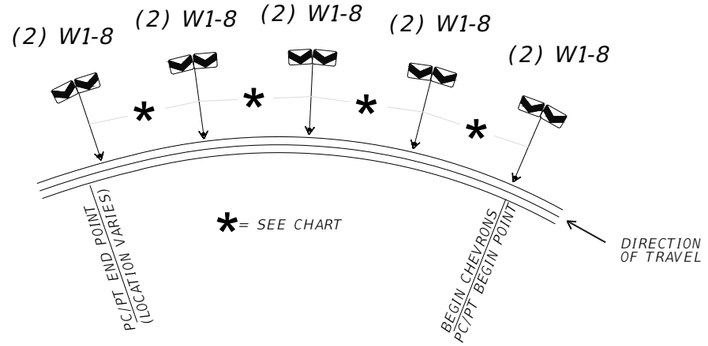
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CHEVRON PLACEMENT DETAIL

(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±

NOTES:

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)

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SHEET NO.
S19

CHEVRON DETAIL

PROJECT NAME
SF 209 BILLINGS DIST SIGNS

COUNTY
BIG HORN, CARBON, FERGUS, JUDITH BASIN, GOLDEN VALLEY, MUSSELSHELL, YELLOWSTONE

PROJECT ID
HSIP -STPS STWD(931)

UPN
10299000

DESIGNED BY		DATE
T. BODLOVIC		JULY 2024
REVIEWED BY		
B. THOMPSON		JULY 2024
CHECKED BY		
S. VENNER		JULY 2024

MONTANA
Department of Transportation

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T. 8 S.
R. 20 E.

0 50' 100'

US 212

RP 63.700 SITE 1 - US-212
BEGIN HSIP-STPS STWD (931)

NEW
W11-13
W7-3A
RP 63.700 RT

USE AS IS
R1-1
RP 67.200 LT.

NEW
W11-13
W7-3A
RP 67.290 LT.

US 212

RP 67.290 SITE 1 - US-212
END HSIP-STPS STWD (931)

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Department of Transportation

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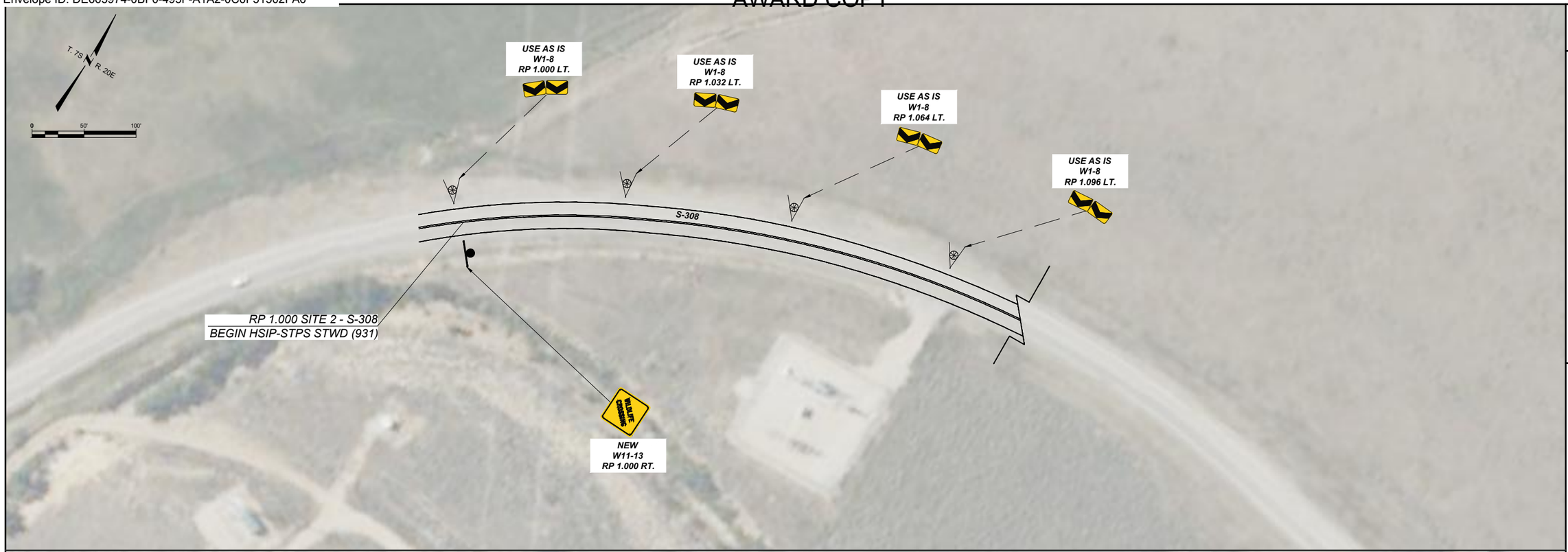
SHEET NO.	S20
PROJECT NAME	SF 209 BILLINGS DIST SIGNS
COUNTY	CARBON
PROJECT ID	HSIP -STPS STWD(931)
UPN	10299000

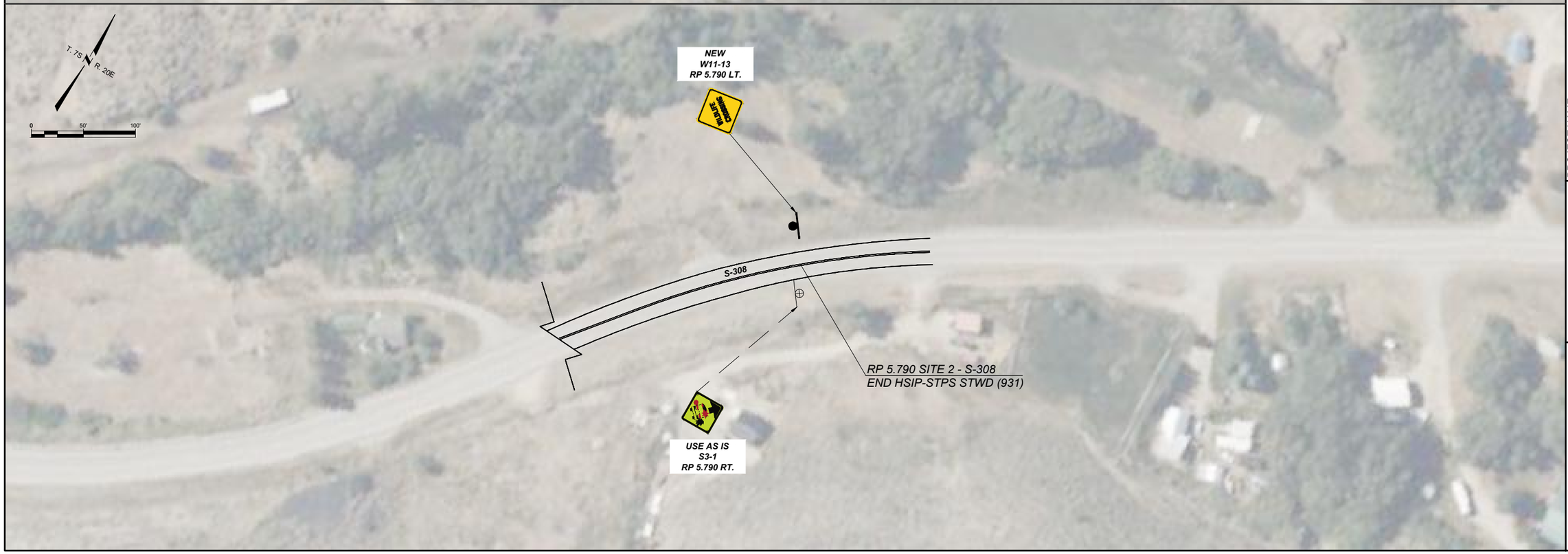
DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

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RPA

SHEET NO.
S21

SIGNING PLANS
SITE 2 - S-308

SIGNING DIST SIGNS

PROJECT NAME: SF 209 BILLINGS D
COUNTY: CARBON
PROJECT ID: HSIP -STPS STWD(931)
UPN: 1029900

DESIGNED BY	JULY 2024
T. BODLOVIC	
REVIEWED BY	JULY 2024
B. THOMPSON	
CHECKED BY	JULY 2024
S. VENNER	

1029900SIPLNZ02.DWG

MONTANA
Department of Transportation

SIGNING PLANS

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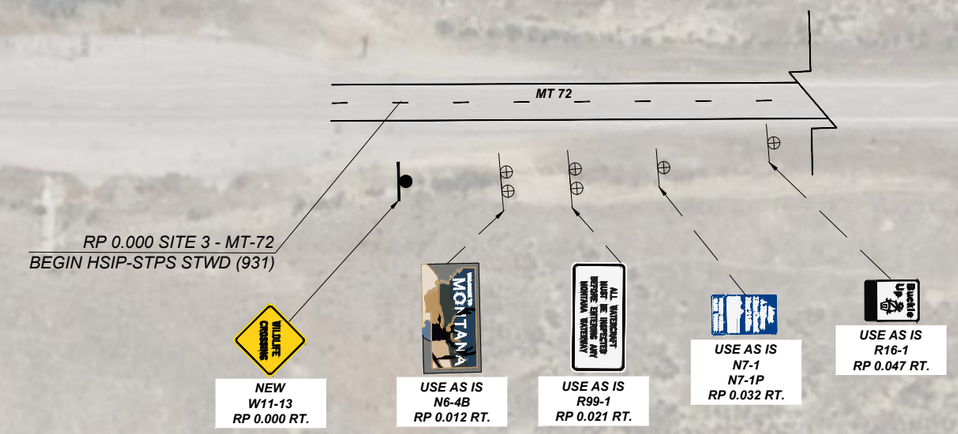
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RPA

T. 9 S
R. 22 E

0 50' 100'



NEW
W11-13
RP 0.000 RT.

USE AS IS
N6-4B
RP 0.012 RT.

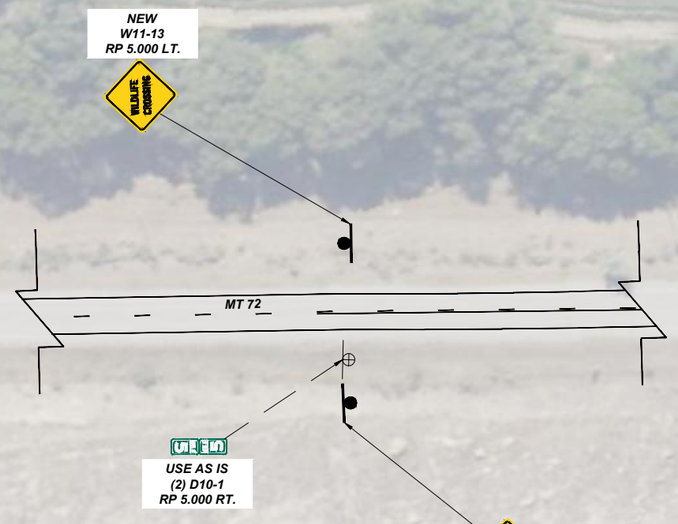
USE AS IS
R99-1
RP 0.021 RT.

USE AS IS
N7-1
N7-1P
RP 0.032 RT.

USE AS IS
R16-1
RP 0.047 RT.

T. 9 S
R. 22 E

0 50' 100'



NEW
W11-13
RP 5.000 LT.

USE AS IS
(2) D10-1
RP 5.000 RT.

NEW
W11-13
RP 5.000 RT.

SHEET NO.
S22

SIGNING PLANS
SITE 3 - MT-72
(SHEET 1 OF 3)

PROJECT NAME: **SF 209 BILLINGS DIST SIGNS**
COUNTY: **CARBON**
PROJECT ID: **HSIP -STPS STWD(931)**
UPN: **10299000**

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

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MONTANA
Department of Transportation

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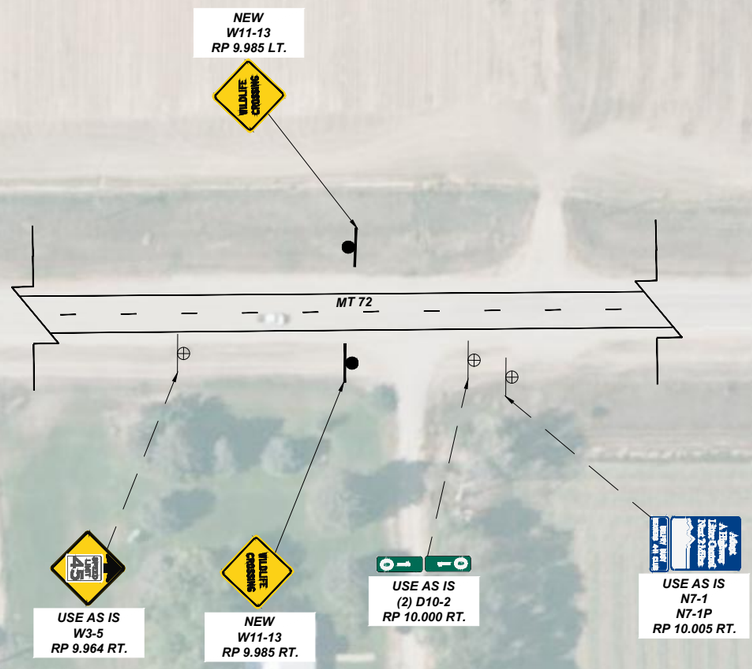
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RPA ROBERT PECCIA & ASSOCIATES
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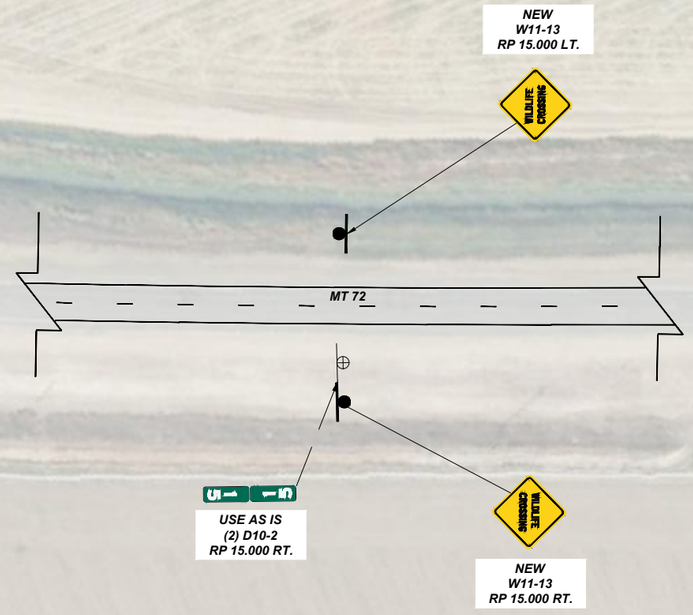
T. 8 S
R. 22 E

0 50' 100'



T. 7 S
R. 23 E

0 50' 100'



SHEET NO.
S23

SIGNING PLANS
SITE 3 - MT-72
(SHEET 2 OF 3)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: CARBON
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE
T. BODLOVIC	JULY 2024
REVIEWED BY	DATE
B. THOMPSON	JULY 2024
CHECKED BY	DATE
S. VENNER	JULY 2024

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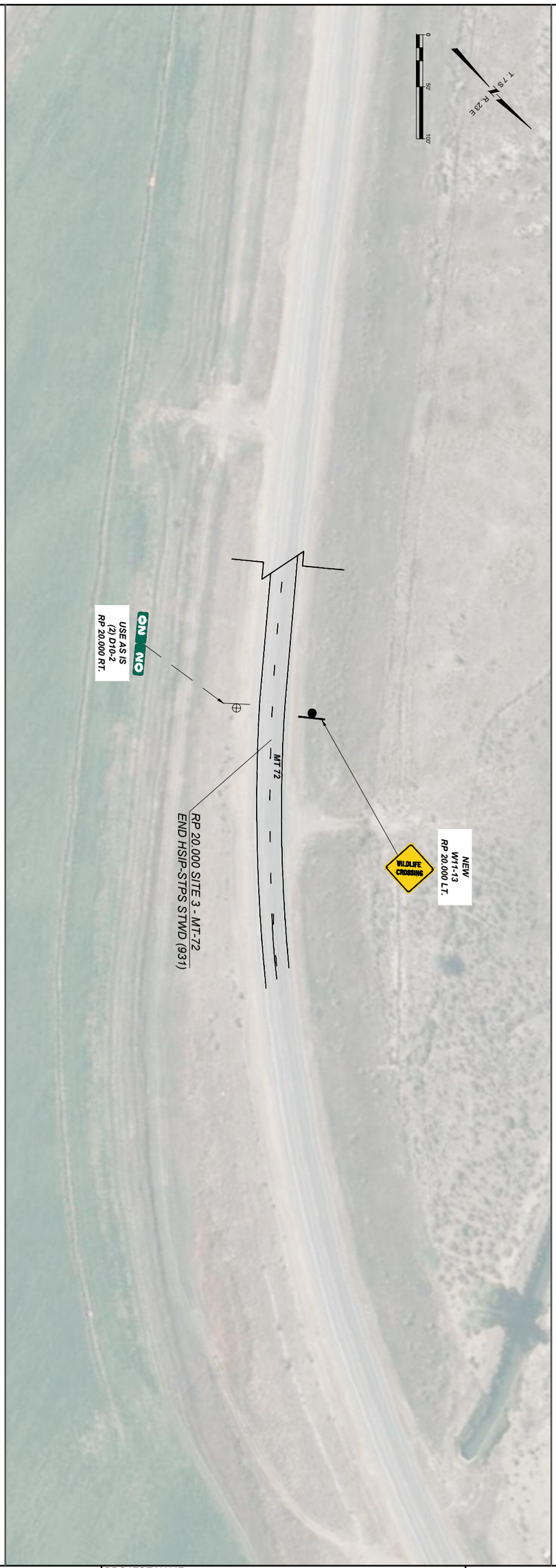
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	REVIEWED BY: B. THOMPSON JULY 2024	COUNTY: CARBON	
SIGNING PLANS	CHECKED BY: S. VENNER JULY 2024	PROJECT ID: HSIP -STPS STWD(931)	SHEET NO. S24
7/22/2024 9:18 AM	10299000SIPLNZ03.DWG	UPN: 10299000	

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T. 9S R. 40E

0 50' 100'

RP 7.649 SITE 4 - S-314
BEGIN HSIP-STPS STWD (931)

PC RP 7.687

S-314

R = 2,110'

200'

NEW
W1-2L
RP 7.649 RT.

NEW
(2) W1-8
RP 7.687 RT.

NEW
(2) W1-8
RP 7.725 RT.

NEW
(2) W1-8
RP 7.763 RT.

NEW
(2) W1-8
RP 7.801 RT.

NEW
(2) W1-8
RP 7.839 RT.

NEW
(2) W1-8
RP 7.877 RT.

NEW
(2) W1-8
RP 7.915 RT.

T. 9S R. 40E

0 50' 100'

NEW
W1-2R
RP 8.048 LT.

PT RP 8.029

R = 2,110'

S-314

200'

USE AS IS
(2) D10-1
RP 8.000 RT.

NEW
(2) W1-8
RP 7.953 RT.

NEW
(2) W1-8
RP 7.991 RT.

NEW
(2) W1-8
RP 8.029 RT.

ROBERT PECCIA & ASSOCIATES
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SHEET NO.
S25

SIGNING PLANS
SITE 4 - S-314
(SHEET 1 OF 2)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	JULY 2024
T. BODLOVIC	
REVIEWED BY	JULY 2024
B. THOMPSON	
CHECKED BY	JULY 2024
S. VENNER	

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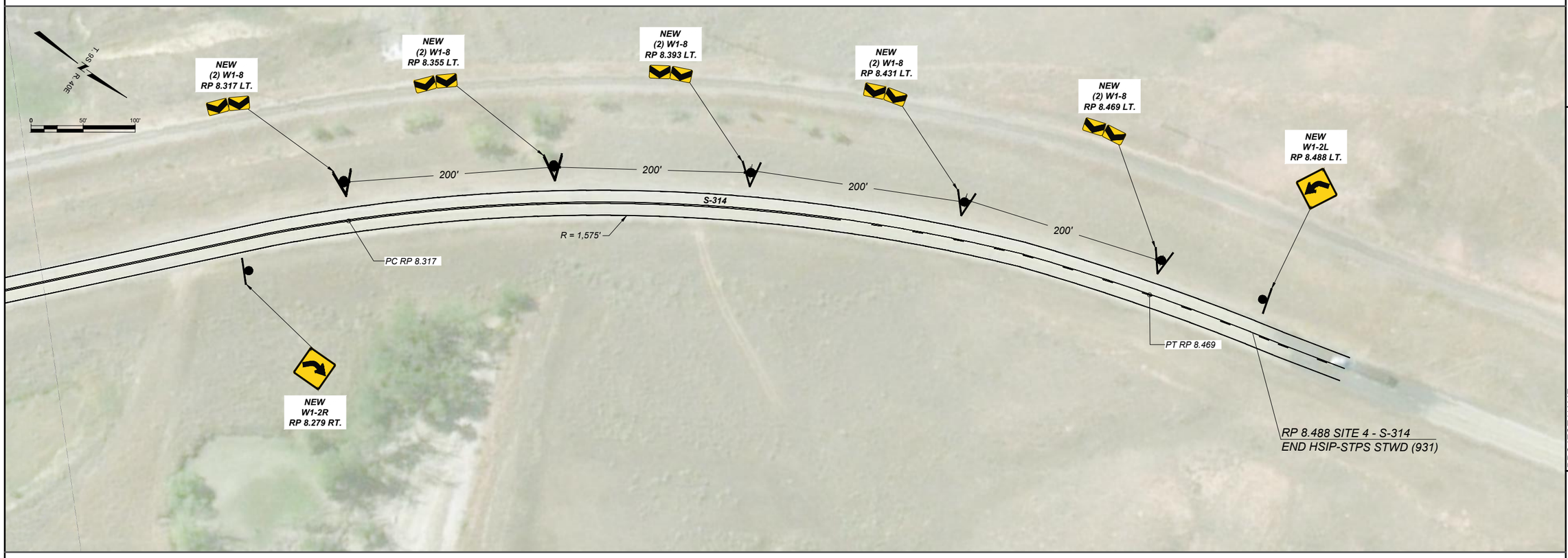
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RPA

SHEET NO.
S26

SIGNING PLANS
SITE 4 - S-314
(SHEET 2 OF 2)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: BIG HORN
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY		JULY 2024
T. BODLOVIC		
REVIEWED BY		JULY 2024
B. THOMPSON		
CHECKED BY		JULY 2024
S. VENNIER		

10299000SIPLNZ04.DWG

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Department of Transportation

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T. 4S
R. 22E

0 50' 100'

RP 90.000 SITE 5 - US-212
BEGIN HSIP-STPS STWD (931)

US 212

USE AS IS
(2) D10-2
RP 90.000 RT.

USE AS IS
W14-3
RP 90.123 LT.

NO PASSING ZONE

REPLACE
W1-2R
RP 90.196 RT.

NEW
(2) W1-8
RP 90.256 LT.

NEW
(2) W1-8
RP 90.294 LT.

NEW
(2) W1-8
RP 90.332 LT.

NEW
(2) W1-8
RP 90.370 LT.

NEW
(2) W1-8
RP 90.408 LT.

NEW
(2) W1-8
RP 90.446 LT.

REPLACE
W1-2L
RP 90.471 LT.

200'

US 212

PC RP 90.256

R = 2,030'

PT RP 90.440

RP 90.471 SITE 5 - US-212
END HSIP-STPS STWD (931)

T. 4S
R. 22E

0 50' 100'

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING
RPA

SHEET NO.
S27

SIGNING PLANS
SITE 5 - US-212

SIGNING DIST SIGNS

PROJECT NAME: SF 209 BILLINGS D
COUNTY: CARBON
PROJECT ID: HSIP -STPS STWD(931)
UPN: 1029900

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

1029900SIPLNZ05.DWG

MONTANA
Department of Transportation

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CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

T. 4S N R. 27E

0 50' 100'

RP 8.000 SITE 6 - S-418
BEGIN HSIP-STPS STWD (931) ON
CROW INDIAN RESERVATION

PC RP 8.056

R = 2,940'

S-418

200' 200' 200' 200' 200' 200'

USE AS IS
(2) D10-2
RP 8.000 RT.

NEW
W1-2L
RP 8.018 RT.

NEW
(2) W1-8
RP 8.056 RT.

NEW
(2) W1-8
RP 8.094 RT.

NEW
(2) W1-8
RP 8.132 RT.

NEW
(2) W1-8
RP 8.170 RT.

NEW
(2) W1-8
RP 8.208 RT.

NEW
(2) W1-8
RP 8.246 RT.

USE AS IS
R4-2
RP 8.275 LT.

PASS WITH CARE

T. 4S N R. 27E

0 50' 100'

NEW
W1-2R
RP 8.341 LT.

PT RP 8.321

R = 2,940'

S-418

200'

RP 8.341 SITE 6 - S-418
END HSIP-STPS STWD (931) ON
CROW INDIAN RESERVATION

NEW
(2) W1-8
RP 8.322 RT.

NEW
(2) W1-8
RP 8.284 RT.

SHEET NO.
S28

SIGNING PLANS
SITE 6 - S-418

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: YELLOWSTONE
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

10299000SIPLNZ06.DWG

MONTANA
Department of Transportation

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RP 1.600 SITE 7 - RIVER RD
BEGIN HSIP-STPS STWD (931)

PC RP 1.657

PT RP 1.703

THIEL RD

NEW
W1-2L
RP 1.722 LT.

NEW
W1-2R
RP 1.638 RT.

T. 2S R. 24E

0 50' 100'

DELINEATOR A
DELINEATOR F

USE AS IS
R2-1
RP 1.919 LT.

SPEED LIMIT 45

USE AS IS
OM-3R
RP 1.962 LT.

USE AS IS
OM-3L
RP 2.008 LT.

USE AS IS
W1-7A
RP 2.041 LT.

USE AS IS
CNTY-1
M6-1R
RP 2.085 LT.

NO THRU TRUCK TRAFFIC 5TH AVE. BYP

NEW
W2-2L
W16-8
RP 2.148 LT.

SPRING CREEK RD

NEW
W2-2R
W16-8
RP 1.959 RT.

USE AS IS
OM-3L
RP 1.962 RT.

REPLACE
W1-5L
W13-1
RP 1.978 RT.

USE AS IS
OM-3R
RP 2.008 RT.

USE AS IS
D3-1
D3-1
D3-1
R1-1
RP 2.080 RT.

USE AS IS
OM-3L
RP 2.084 RT.

USE AS IS
OM-3R
RP 2.095 RT.

USE AS IS
OM-3L
RP 2.092 LT.

RIVER RD

T. 2S R. 24E

0 50' 100'

DELINEATOR A
DELINEATOR C
DELINEATOR D
EXISTING GUARDRAIL

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

MONTANA
Department of Transportation

SHEET NO.
S29

SIGNING PLANS
SITE 7 - RIVER RD
(SHEET 1 OF 2)

PROJECT NAME	SF 209 BILLINGS DIST SIGNS
COUNTY	YELLOWSTONE
PROJECT ID	HSIP -STPS STWD(931)
UPN	10299000
DESIGNED BY	T. BODLOVIC JULY 2024
REVIEWED BY	B. THOMPSON JULY 2024
CHECKED BY	S. VENNER JULY 2024
	10299000SIPLNZ07.DWG

SIGNING PLANS

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MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

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PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: YELLOWSTONE
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

SIGNING PLANS
SITE 7 - RIVER RD
(SHEET 2 OF 2)

SHEET NO. S30

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T. 9 S R. 22 E

0 50' 100'

RP 0.905 SITE 8 - SHILOH RD
BEGIN HSIP-STPS STWD (931)

USE AS IS (2) D3-1 RSFO R1-2 REPLACE R99-1 RP 0.922 RT.

RSFO R1-2 REPLACE R99-1 RP 0.905 RT.

USE AS IS (2) D3-1 RSFO R1-2 REPLACE R99-1 RP 0.905 RT.

RSFO R1-2 REPLACE R99-1 RP 0.913 LT.

SHILOH RD

GRAND AVE

GRAND AVE

RSFO R1-2 REPLACE R99-1 RP 0.930 RT.

USE AS IS (2) D3-1 RSFO R1-2 REPLACE R99-1 RP 0.939 LT.

RSFO R1-2 REPLACE R99-1 RP 0.939 LT.

USE AS IS (2) D3-1 RSFO R1-2 REPLACE R99-1 RP 0.922 LT.

SHILOH RD

RSFO = REPLACE SIGN FACE ONLY

T. 9 S R. 22 E

0 50' 100'

USE AS IS (2) D3-1 RSFO R1-2 NEW R99-1 RP 1.532 RT.

RSFO R1-2 RP 1.515 RT.

USE AS IS (2) D3-1 RSFO R1-2 RP 1.515 RT.

RSFO R1-2 NEW R99-1 RP 1.524 LT.

SHILOH RD

BROADWATER AVE

RSFO R1-2 NEW R99-1 RP 1.540 RT.

USE AS IS (2) D3-1 RSFO R1-2 RP 1.549 LT.

RSFO R1-2 RP 1.549 LT.

USE AS IS (2) D3-1 RSFO R1-2 NEW R99-1 RP 1.532 LT.

SHILOH RD

RSFO = REPLACE SIGN FACE ONLY

SHEET NO.
S31

SIGNING PLANS
SITE 8 - SHILOH ROAD
(SHEET 1 OF 4)

PROJECT NAME	SF 209 BILLINGS DIST SIGNS
COUNTY	YELLOWSTONE
PROJECT ID	HSIP -STPS STWD(931)
UPN	10299000

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

MONTANA
Department of Transportation

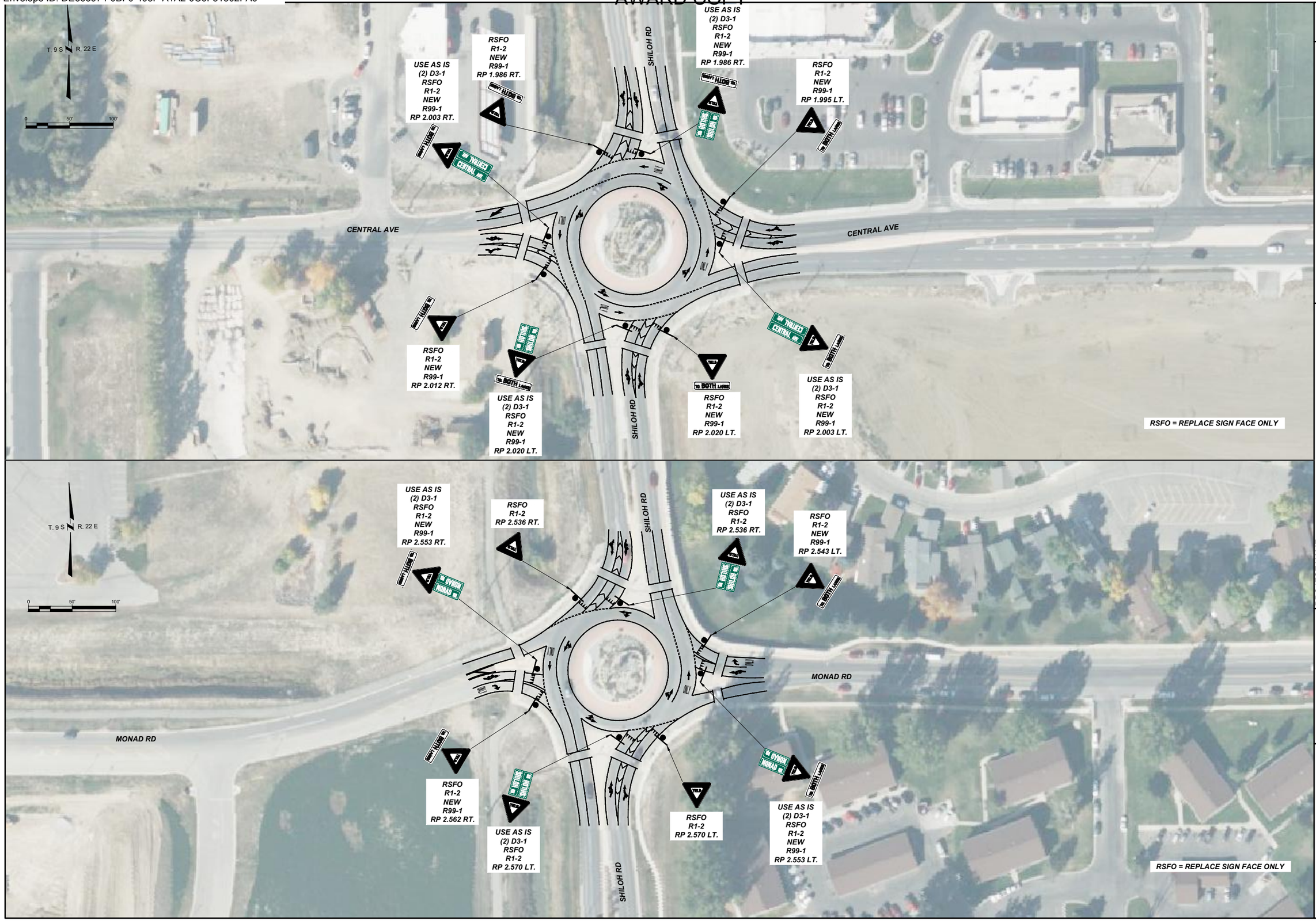
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SHEET NO.
S32

SIGNING PLANS
SITE 8 - SHILOH ROAD
(SHEET 2 OF 4)

PROJECT NAME	SF 209 BILLINGS DIST SIGNS
COUNTY	YELLOWSTONE
PROJECT ID	HSIP -STPS STWD(931)
UPN	102990000

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

MONTANA
Department of Transportation

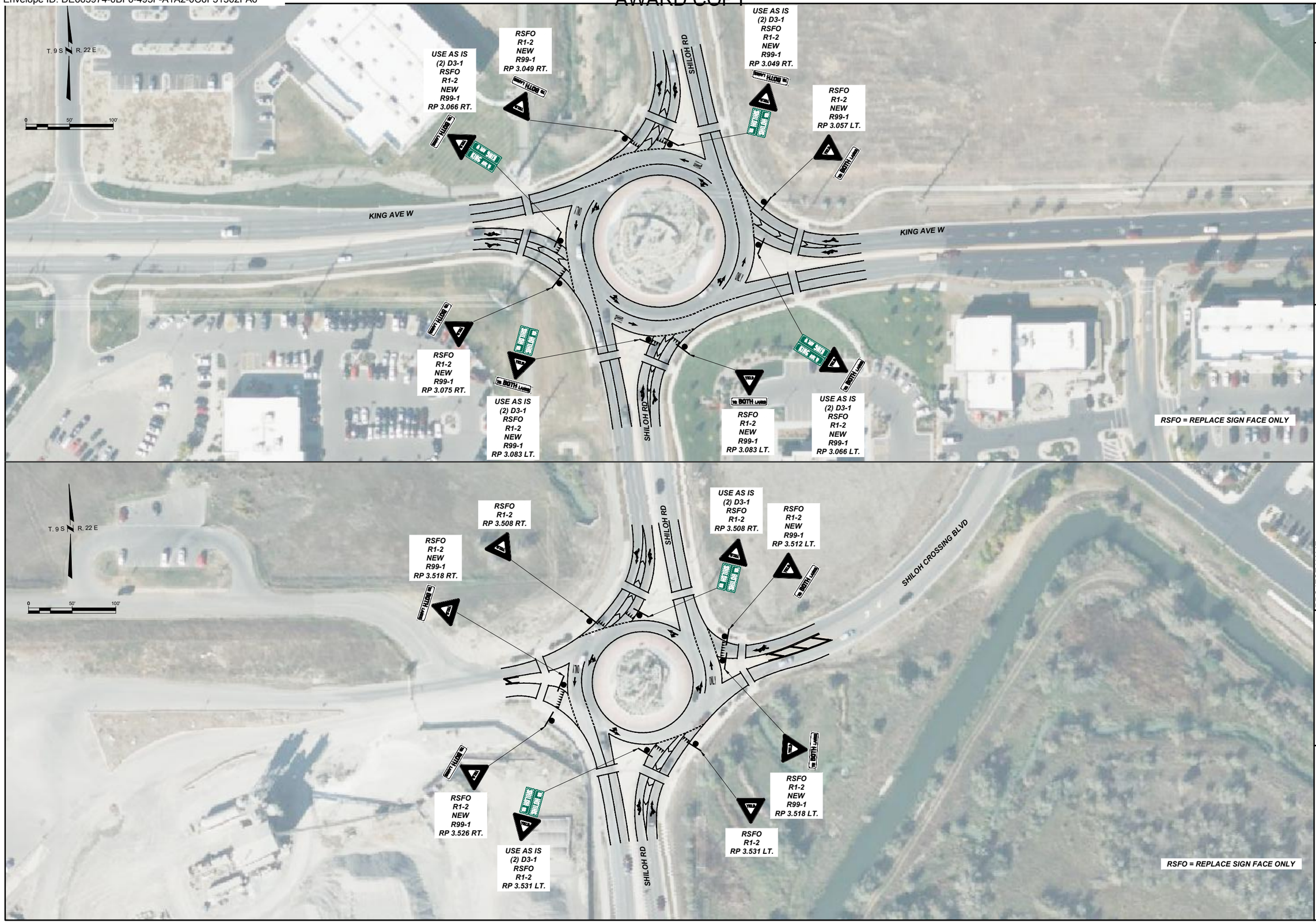
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RPA

SHEET NO. S33

SIGNING PLANS
SITE 8 - SHILOH ROAD
(SHEET 3 OF 4)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: YELLOWSTONE
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	T. BODLOVIC	JULY 2024	
REVIEWED BY	B. THOMPSON	JULY 2024	
CHECKED BY	S. VENNER	JULY 2024	

MONTANA
Department of Transportation

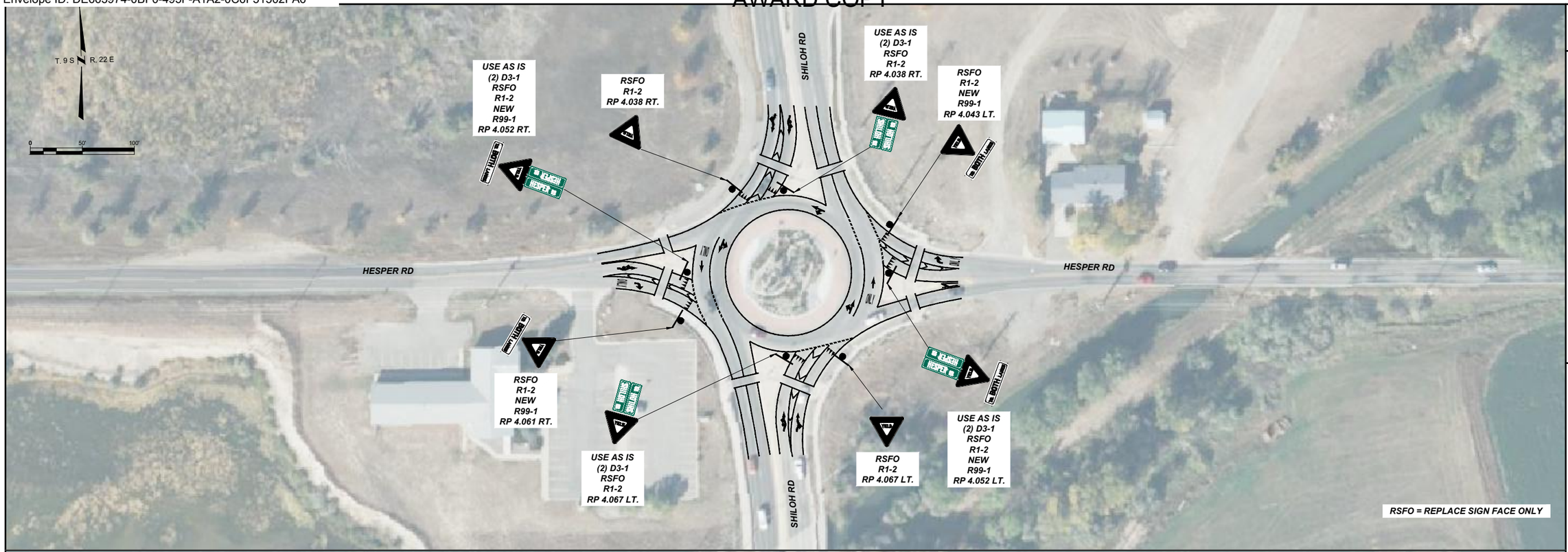
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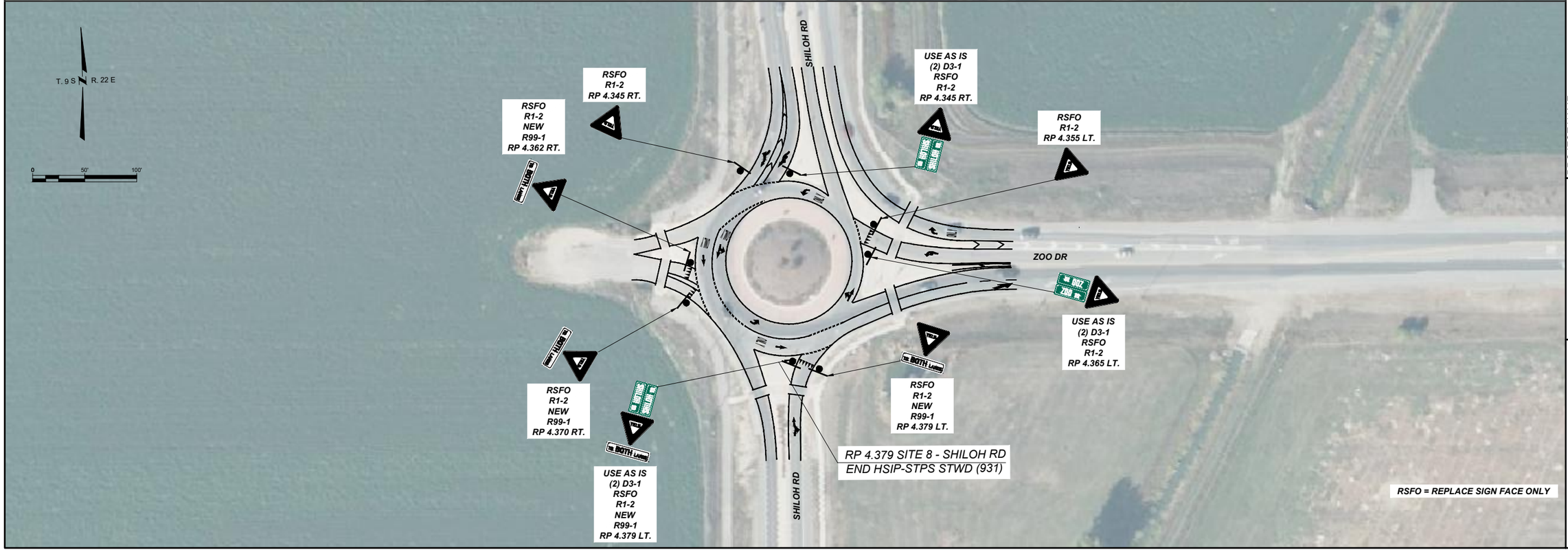
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SHEET NO.
S34

SIGNING PLANS
SITE 8 - SHILOH ROAD
(SHEET 4 OF 4)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: YELLOWSTONE
PROJECT ID: HSIP -STPS STWD(931)
UPN: 102990000

DESIGNED BY	JULY 2024
T. BODLOVIC	
REVIEWED BY	JULY 2024
B. THOMPSON	
CHECKED BY	JULY 2024
S. VENNER	

102990000SIPLNZ08.DWG

MONTANA
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RPA

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T. 6N R. 22E

0 50' 100'

RP 142.329 SITE 11 - MT-3/US-12
BEGIN HSIP-STPS STWD (931)

MT 3 / US 12

R = 1,986'

PC RP 142.454

NEW
W1-2R
RP 142.435 RT.

PANEL DELINEATOR A

T. 6N R. 22E

0 50' 100'

NEW
W1-2L
RP 142.687 LT.

RP 142.820 SITE 11 - MT-3/US-12
END HSIP-STPS STWD (931)

MT 3 / US 12

PT RP 142.668

NO PASSING ZONE

USE AS IS
W14-3
RP 142.692 RT.

PANEL DELINEATOR A

RPA ROBERT PECCIA & ASSOCIATES
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SHEET NO.
S35

SIGNING PLANS
SITE 11 - MT-3/US-12

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: GOLDEN VALLEY
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	JULY 2024	REVIEWED BY	JULY 2024	CHECKED BY	JULY 2024
T. BODLOVIC		B. THOMPSON		S. VENNER	

10299000SIPLNZ11.DWG

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Department of Transportation

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T 16 N.
R 13-14 E.
0 50' 100'

RP 4.965 SITE 14 - BENCHLAND RD
BEGIN HSIP-STPS STWD (931)

BENCHLAND RD

LOUSE CREEK RD

REPLACE
(2) D3-1
(2) D3-1
RP 6.559 RT.

DELINEATOR A

T 16 N
R 13-14 E.
0 50' 100'

REPLACE
(2) D3-1
(2) D3-1
RP 7.281 LT.

SAGE CREEK RD

BENCHLAND RD

DELINEATOR A

SHEET NO.
S36

SIGNING PLANS
SITE 14 - S-207
(SHEET 1 OF 9)

PROJECT NAME	SF 209 BILLINGS DIST SIGNS
COUNTY	FERGUS / JUDITH BASIN
PROJECT ID	HSIP -STPS STWD(931)
UPN	10299000

DESIGNED BY	T. BODLOVIC
DATE	JULY 2024
REVIEWED BY	B. THOMPSON
DATE	JULY 2024
CHECKED BY	S. VENNER
DATE	JULY 2024

MONTANA
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T 16 N.
R 13-14 E.

0 50' 100'

REPLACE
W1-7A
RP 7.792 LT.

BENCHLAND RD

LOWER SAGE CREEK RD

REPLACE
(2) D3-1
(2) D3-1
RP 7.800 RT.

DELINEATOR A

T 16 S.
R 13-14 E.

0 50' 100'

PC RP 8.490

BENCHLAND RD

REPLACE
W1-2L
RP 8.471 RT.

DELINEATOR A
DELINEATOR C

SHEET NO.
S37

SIGNING PLANS
SITE 14 - S-207
(SHEET 2 OF 9)

PROJECT NAME	SF 209 BILLINGS DIST SIGNS
COUNTY	FERGUS / JUDITH BASIN
PROJECT ID	HSIP -STPS STWD(931)
UPN	10299000
DESIGNED BY	T. BODLOVIC JULY 2024
REVIEWED BY	B. THOMPSON JULY 2024
CHECKED BY	S. VENNER JULY 2024

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T 16 N. R 13-14 E.

0 50' 100'

REPLACE
W1-2R
RP 8.652 LT.

PT RP 8.633

BENCHLAND RD

DELINEATOR A
DELINEATOR F

T 16 N. R 13-14 E.

0 50' 100'

BENCHLAND RD

NEW
(2) W1-8
RP 9.113 LT.

NEW
(2) W1-8
RP 9.128 LT.

NEW
(2) W1-8
RP 9.143 LT.

NEW
(2) W1-8
RP 9.158 LT.

NEW
(2) W1-8
RP 9.173 LT.

NEW
(2) W1-8
RP 9.181 LT.

REPLACE
(2) W1-8
RP 9.189 LT.

REPLACE
(2) W1-8
RP 9.197 LT.

80'
80'
80'
80'
40'
40'
40'

PC RP 9.113
R = 345'

R = 125'

PT RP 9.198

NEW
W1-5R
W13-1
RP 9.094 RT.

35 MPH

DELINEATOR A
DELINEATOR C

SHEET NO.
S38

SIGNING PLANS
SITE 14 - S-207
(SHEET 3 OF 9)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: FERGUS / JUDITH BASIN
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
T. BODLOVIC	JULY 2024	B. THOMPSON	JULY 2024	S. VENNER	JULY 2024

MONTANA
Department of Transportation

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T 17 N, R 13 E.

0 50' 100'

REPLACE
W1-5L
W13-1
RP 9.492 LT.

35 MPH

BENCHLAND RD

DELINEATOR A

T 17 N, R 13 E.

0 50' 100'

REPLACE
(2) D3-1
(2) D3-1
R1-2
RP 11.417 LT.

COYOTE CREEK RD

REPLACE
S3-1
RP 11.506 LT.

BENCHLAND RD

REPLACE
S3-1
RP 11.369 RT.

REPLACE
(2) D3-1
(2) D3-1
RP 11.426 RT.

DELINEATOR A
DELINEATOR D

SHEET NO.
S39

SIGNING PLANS
SITE 14 - S-207
(SHEET 4 OF 9)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: FERGUS / JUDITH BASIN
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. BODLOVIC	B. THOMPSON	S. VENNER
JULY 2024	JULY 2024	JULY 2024

MONTANA
Department of Transportation

SIGNING PLANS

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T 17 N
R 13 E.

0 50' 100'

REPLACE
(2) D3-1
(2) D3-1
R1-2
RP 13.496 LT.

HOOSAC RD

BENCHLAND RD

REPLACE
(2) D3-1
(2) D3-1
R1-2
RP 13.507 RT.

DELINEATOR A
DELINEATOR D

T 17-18 N
R 13 E.

0 50' 100'

BENCHLAND RD

NEW
(2) W1-8
RP 15.456 LT.

REPLACE
(2) W1-8
RP 15.471 LT.

REPLACE
(2) W1-8
RP 15.486 LT.

120'

PC RP 15.456

R = 235'

REPLACE
W1-2R
RP 15.437 RT.

REPLACE
(2) W1-8
RP 15.501 LT.

NEW
(2) W1-8
RP 15.516 LT.

PC RP 15.522

NEW
(2) W1-8
RP 15.531 LT.

NEW
W1-2L
RP 15.550 LT.

DELINEATOR A
DELINEATOR C

SHEET NO.
S40

SIGNING PLANS
SITE 14 - S-207
(SHEET 5 OF 9)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: FERGUS / JUDITH BASIN
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

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T 17-18 N. R 13-14 E.

0 50' 100'

REPLACE W1-2R RP 16.540 LT.

PT RP 16.521

REPLACE W1-2L RP 16.412 RT.

PC RP 16.431

BENCHLAND RD

DELINEATOR A
DELINEATOR C

T 18 N. R 13-14 E.

0 50' 100'

REPLACE (2) D3-1 RP 17.474 LT.

PIONEER

PT RP 17.481

REPLACE W1-10BL RP 17.500 LT.

PIONEER RD

BENCHLAND RD

REPLACE (2) D3-1 RP 17.420 LT.

PC RP 17.406

NEW W1-10BR RP 17.387 RT.

DELINEATOR A
DELINEATOR C

SHEET NO.
S41

SIGNING PLANS
SITE 14 - S-207
(SHEET 6 OF 9)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: FERGUS / JUDITH BASIN
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	T. BODLOVIC	JULY 2024	
REVIEWED BY	B. THOMPSON	JULY 2024	
CHECKED BY	S. VENNER	JULY 2024	10299000SIPLNZ14.DWG

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Department of Transportation

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T 18 N. R 14 E.

0 50' 100'

REPLACE
W1-10BR
RP 19.484 LT.

BENCHLAND RD

PT RP 19.465

REPLACE
(2) D3-1
RP 19.458 RT.

PC RP 19.404

BENCHLAND RD

REPLACE
W1-10BL
RP 19.385 RT.

REPLACE
(2) D3-1
RP 19.406 RT.

IOWA BENCH RD

DELINEATOR A
DELINEATOR C

SHEET NO.
S42

SIGNING PLANS
SITE 14 - S-207
(SHEET 7 OF 9)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: FERGUS / JUDITH BASIN
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY: T. BODLOVIC JULY 2024
REVIEWED BY: B. THOMPSON JULY 2024
CHECKED BY: S. VENNER JULY 2024

MONTANA Department of Transportation

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T 18 N. R 14 E.

0 50' 100'

REPLACE
W1-10BL
RP 21.452 LT.

REPLACE
(2) D3-1
RP 21.420 LT.

JERMOT
LOWER

PT RP 21.433

LOWER RD

BENCHLAND RD

REPLACE
(2) D3-1
RP 21.367 LT.

BENCH
LAND

PC RP 21.371

REPLACE
W1-2L
RP 21.605 RT.

BENCHLAND RD

REPLACE
W1-10BR
RP 21.352 RT.

DELINEATOR A
DELINEATOR C

SHEET NO.
S43

SIGNING PLANS
SITE 14 - S-207
(SHEET 8 OF 9)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: FERGUS / JUDITH BASIN
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY		JULY 2024
T. BODLOVIC		
REVIEWED BY		JULY 2024
B. THOMPSON		
CHECKED BY		JULY 2024
S. VENNER		

MONTANA
Department of Transportation

SIGNING PLANS

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SHEET NO.
S44

SIGNING PLANS
SITE 14 - S-207
(SHEET 9 OF 9)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: FERGUS / JUDITH BASIN
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

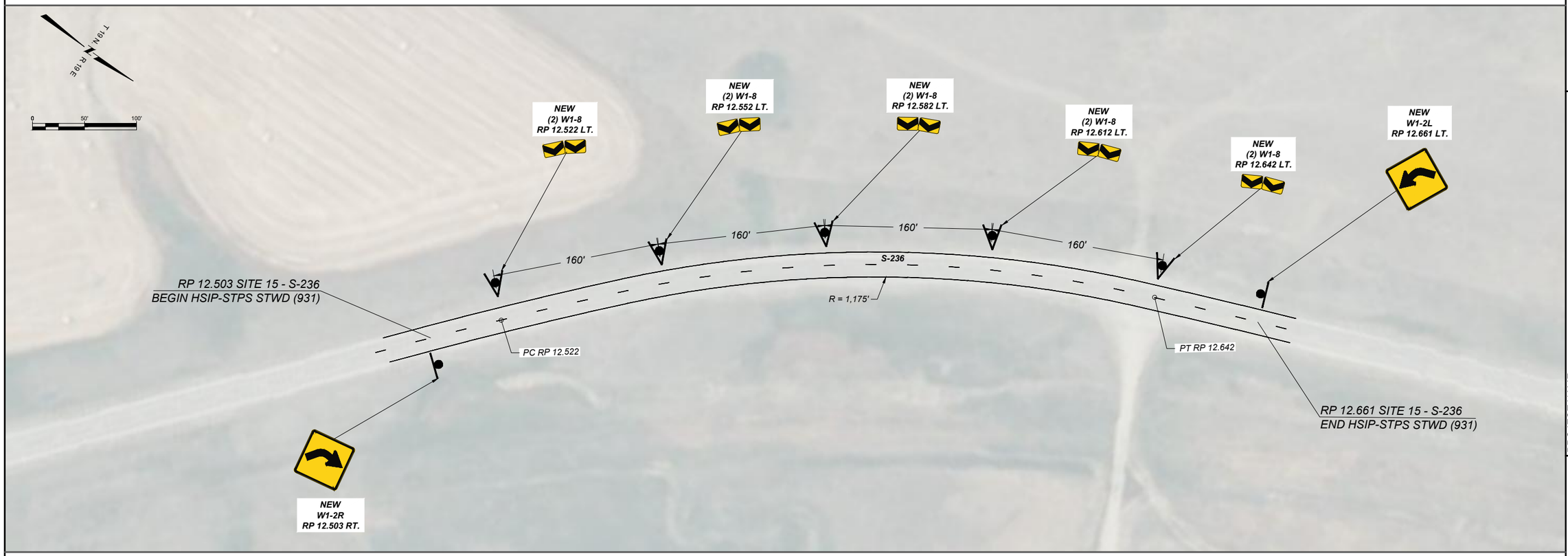
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RPA

SHEET NO.
S45

SIGNING PLANS
SITE 15 - S-236

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: FERGUS
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	DATE
T. BODLOVIC	JULY 2024
REVIEWED BY	DATE
B. THOMPSON	JULY 2024
CHECKED BY	DATE
S. VENNER	JULY 2024

10299000SIPLNZ15.DWG

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Department of Transportation

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T. 21 N
R. 23 E

0 50' 100'

RP 81.788 SITE 16 - US-191
BEGIN HSIP-STPS STWD (931)

PC RP 81.807

US 191

NEW
W1-2R
RP 81.788 RT.

USE AS IS
W14-3
RP 81.832 LT.

NO PASSING ZONE

PANEL DELINEATOR A

T. 21 N
R. 23 E

0 50' 100'

US 191

USE AS IS
(2) D10-2
RP 82.00 RT.

PANEL DELINEATOR A

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SHEET NO.
S46

SIGNING PLANS
SITE 16 - US-191
(SHEET 1 OF 2)

SIGNING & DIST SIGNS

PROJECT NAME	SF 209 BILLINGS DIST SIGNS
COUNTY	FERGUS
PROJECT ID	HSIP -STPS STWD(931)
UPN	10299000

DESIGNED BY	T. BODLOVIC	JULY 2024
REVIEWED BY	B. THOMPSON	JULY 2024
CHECKED BY	S. VENNER	JULY 2024

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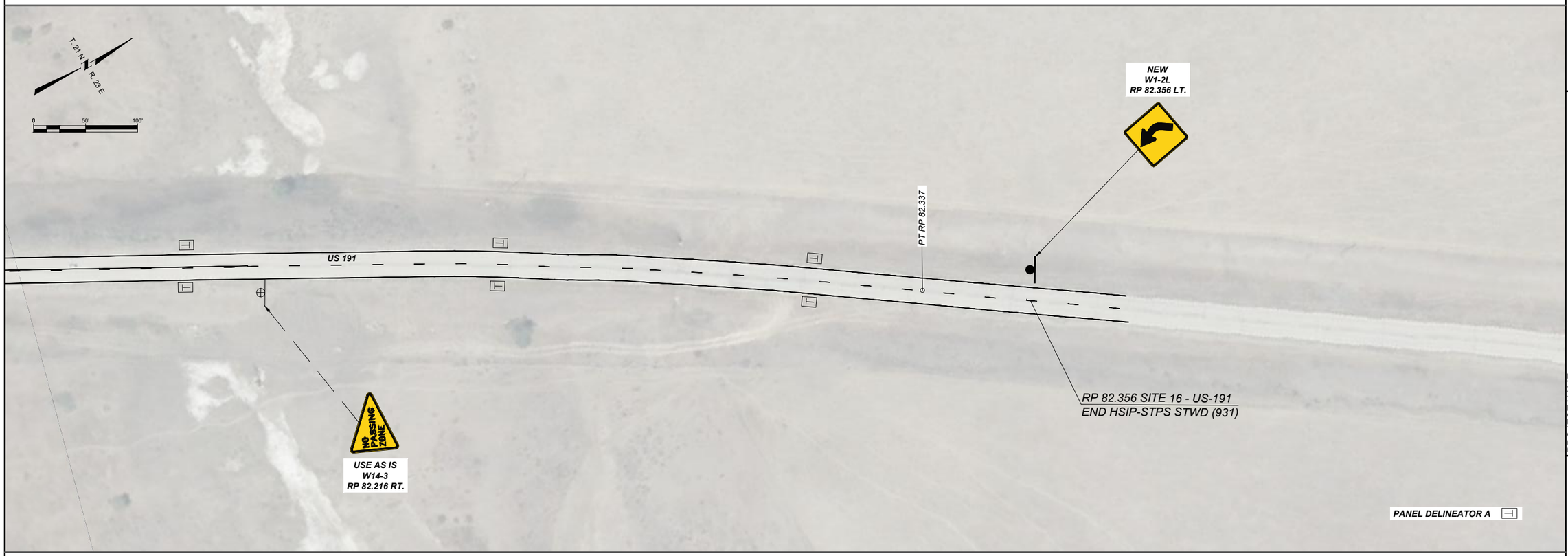
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ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SHEET NO.
S47

SIGNING PLANS
SITE 16 - US-191
(SHEET 2 OF 2)

PROJECT NAME: SF 209 BILLINGS DIST SIGNS
COUNTY: FERGUS
PROJECT ID: HSIP -STPS STWD(931)
UPN: 10299000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. BODLOVIC	B. THOMPSON	S. VENNER
JULY 2024	JULY 2024	JULY 2024

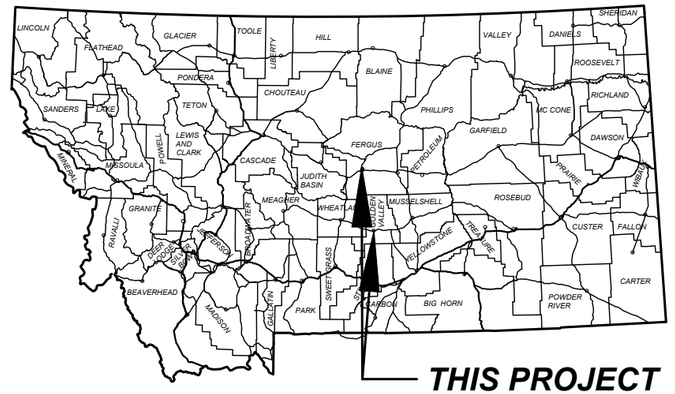
MONTANA
Department of Transportation

SIGNING PLANS

7/22/2024 9:46 AM

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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT HSIP STWD(800)

ROADWAY & ROADSIDE SAFETY IMPROVEMENTS

SF 189 NORTH D5 SAFETY IMPRV

GOLDEN VALLEY & FERGUS COUNTY

LENGTH N/A MILES

SHEET NO.
1

TITLE SHEET

SITE 1 - DESIGN DATA

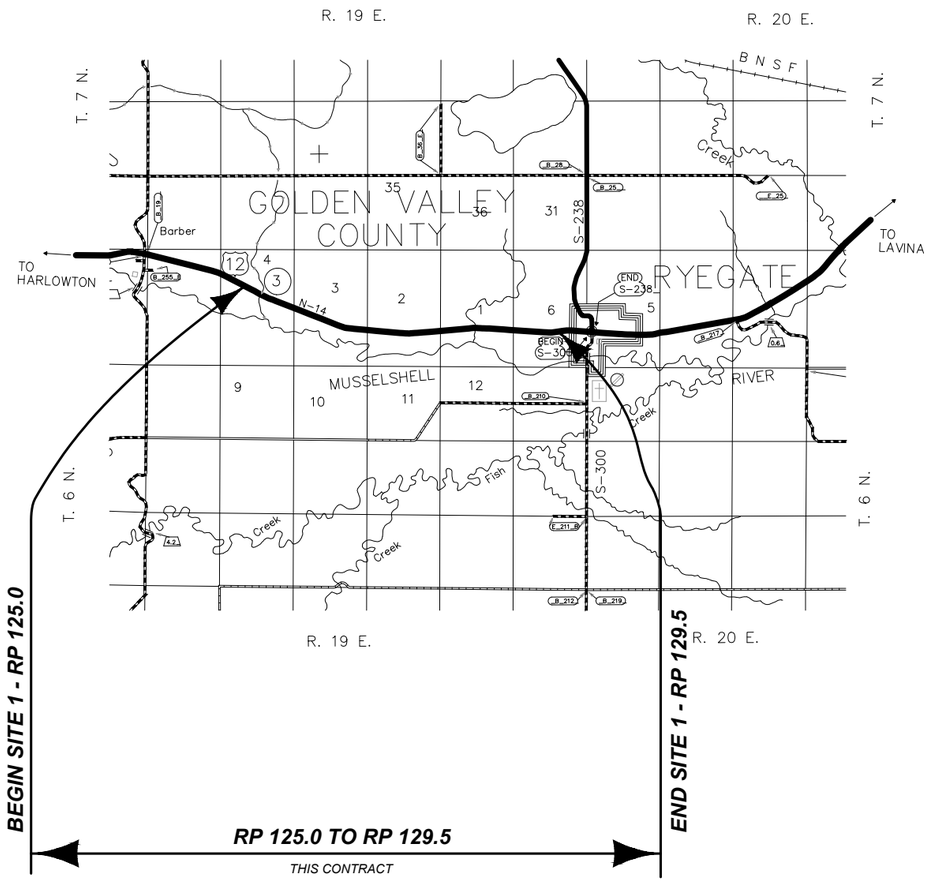
PRESENT	2023	A.D.T. =	1,700
LETTING	2024	A.D.T. =	1,720
DESIGN	2044	A.D.T. =	2,320
		D.H.V. =	350
		TRUCKS =	21.0%
		V. =	70 MPH
		18 KIP ESAL'S =	200
		GROWTH RATE =	1.5% ANNUALLY

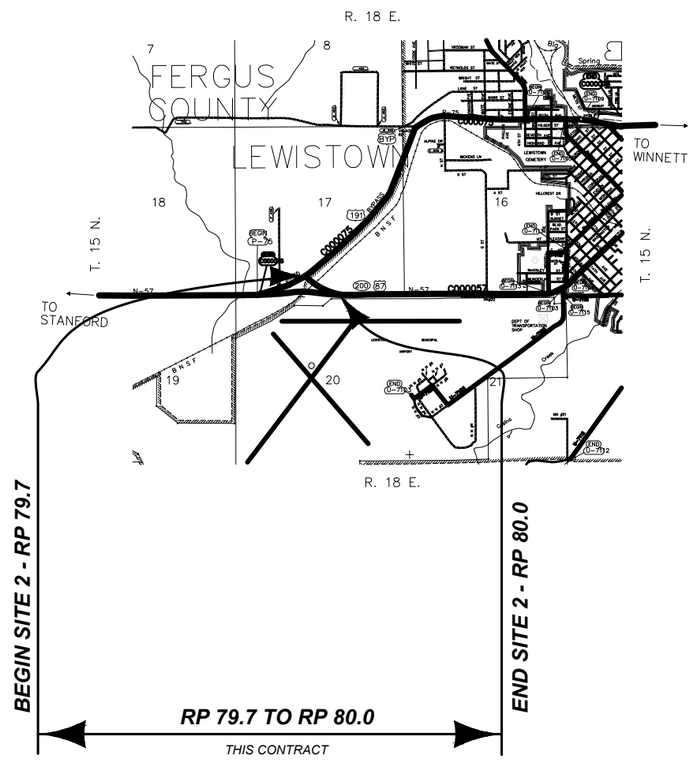
SITE 2 - DESIGN DATA

PRESENT	2023	A.D.T. =	2,450
LETTING	2024	A.D.T. =	2,480
DESIGN	2044	A.D.T. =	3,020
		D.H.V. =	290
		TRUCKS =	5.3%
		V. =	45 MPH
		18 KIP ESAL'S =	45
		GROWTH RATE =	1.0% ANNUALLY

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	HSIP STWD(799)

RELATED PROJECTS
HSIP-STPS STWD(931)





SURFACING SOURCES - CONTRACTOR FURNISHED

MONTANA DEPARTMENT OF TRANSPORTATION

APPROVED BY:

TRAFFIC AND SAFETY ENGINEER

Signed by: Gabe B. Priebe

4895FFA73587466...

GABE B. PRIEBE 13957PE LICENSED PROFESSIONAL ENGINEER

9/4/2024

DATE

PROJECT NAME	SF 189 NORTH D5 SAFETY IMPRV
COUNTY	GOLDEN VALLEY & FERGUS COUNTY
PROJECT ID	HSIP STWD(800)
UPN	9911000
DESIGNED BY	S. LUCIO 09/2023
REVIEWED BY	
CHECKED BY	J. SOLIDAY 04/2024

MONTANA Department of Transportation

ROAD PLANS

9911000SATTL001.DWG

5/30/2024 8:41 AM

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AWARD COPY

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SIGNING PLANS	
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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	=3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	=3855 LBS. PER CUBIC YARD
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)

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.

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND MAY EXIST 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.

PROJECT CONTROL

THE CONTROL FOR THIS PROJECT IS FROM NH 57-3(36)79.

SHEET NO.
2

TABLE OF CONTENTS & NOTES

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY	S. LUCIO 09/2023
REVIEWED BY	
CHECKED BY	J. SOLIDAY 04/2024
PROJECT NAME	SF 189 NORTH D5 SAFETY IMPRV
COUNTY	GOLDEN VALLEY & FERGUS COUNTY
PROJECT ID	HSIP STWD(800)
UPN	9911000

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CONTROL DIAGRAM

SCALE: N/A

CONTROL ABSTRACT				
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION *	LOCATION AND DESCRIPTION
PORT	1,022,755.698	1,978,250.299	4116.20 **	FOUND NGS BENCHMARK AT MP 80.342
Q176	1,022,835.577	1,967,808.224	4115.22 **	FOUND NGS BENCHMARK AT MP 78.255.
R176	1,022,864.618	1,973,464.364	4097.13 ***	FOUND NGS BENCHMARK AT MP 79.327.
78D	1,022,735.611	1,970,739.296	4111.21	FOUND 2" MDT AC, 51' RIGHT OF PTW AT MP 78.809.
79A	1,022,862.126	1,972,745.772	4112.58	FOUND 2" MDT AC, 73' LEFT OF PTW AT MP 79.192, 2' NORTH OF R/W FENCE.
79B	1,022,713.677	1,973,766.445	4109.49	FOUND 2" MDT AC, 75' RIGHT OF PTW AT MP 79.386.
79C	1,023,022.063	1,974,854.557	4108.24	FOUND 2" MDT AC, 59' LEFT OF PTW AT MP 79.594.
79D	1,022,717.373	1,974,727.736	4109.81	FOUND 2" MDT AC, 72' RIGHT OF PTW AT MP 79.568, 4' SOUTH OF R/W FENCE.
79E	1,022,717.986	1,975,779.969	4115.73	FOUND 2" MDT AC, 80' RIGHT OF PTW AT MP 79.766, 10' SOUTH OF R/W FENCE.
79F	1,022,862.623	1,975,856.149	4117.09	FOUND 2" MDT AC, 63' LEFT OF PTW AT MP 79.780.
80A	1,022,747.330	1,976,621.411	4117.38	FOUND 2" MDT AC, 58' RIGHT OF PTW AT MP 80.034, 19' SOUTH OF R/W FENCE.
80B	1,022,755.872	1,977,430.194	4119.55	FOUND 2" MDT AC, 54' RIGHT OF PTW AT MP 80.186, 14' SOUTH OF R/W FENCE.
80C	1,022,890.405	1,979,363.542	4108.42	FOUND 2" MDT AC, 73' LEFT OF PTW AT MP 80.852, 3' NORTH OF R/W FENCE.
80D	1,022,767.247	1,980,358.508	4113.02	FOUND 2" MDT AC, 55' RIGHT OF PTW AT MP 80.740.
80E	1,022,770.383	1,981,290.989	4106.42	FOUND 2" MDT AC, 55' RIGHT OF PTW AT MP 80.917.
81A	1,022,881.443	1,982,302.293	4093.07	FOUND 2" MDT AC, 52' LEFT OF PTW AT MP 81.048.
81B	1,022,861.382	1,983,404.530	4074.91	FOUND 2" MDT AC, 164' RIGHT OF PTW AT MP 81.253, 3' EAST OF A GUARD RAIL.
629	1,022,846.948	1,971,732.875	4112.56	FOUND 2" MDT AC AT MP 79, 59' NORTH OF CENTERLINE HIGHWAY 87, 10' SOUTH OF STATION MARKER 130, 417' EAST OF PRIVATE ACCESS ROAD. SET MDT FENCE POST IN NORTH R/W FENCE.
630	1,021,745.640	1,973,481.442	4116.76 **	FOUND 2" MDT AC AT MP 79.3, 1000' SOUTH OF HIGHWAY 87, 300' NORTHEAST OF APPROACH TO COUNTY GRAVEL PIT, 5' NORTH OF NORTH RAILROAD R/W FENCE, 151' SOUTHWEST OF CENTER OF DRAINAGE. SET MDT FENCE POST 2' SOUTHEAST.

*NAVD88 ORTHOMETRIC HEIGHTS, FROM DIGITAL LEVELS, USING PORT & S176 FOR VERTICAL CONTROL, UNLESS OTHERWISE NOTED
**ELEVATION FROM MDT CONTROL NH 57-3(30)70
***ELEVATION DERIVED FROM DIGITAL LEVELS, USING PORT & S176 FOR VERTICAL CONTROL. DOES NOT AGREE WITH NGS PUBLISHED ELEVATION

CONTROL ABSTRACT (CON'T)				
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION *	LOCATION AND DESCRIPTION
631	1,023,714.895	1,976,175.087	4092.18 **	FOUND 2" MDT AC AT MP 80, 1000' NORTH OF MAIN HIGHWAY 87, 52' SOUTH OF HIGHWAY 87 BY PASS, 41' NORTH OF CENTERLINE RAILROAD TRACKS, 300' NORTHEAST OF APPROACH TO WELCH CONSTRUCTION. SET MDT FENCE POST 2' SOUTHEAST.
632	1,022,464.787	1,978,965.701	4117.61	FOUND 2" MDT AC AT MP 80.5, 358' SOUTH OF HWY 87, 357' SOUTH OF PROJECTED NORTH-SOUTH CHAIN LINK FENCE AROUND AIRPORT RUNWAY, NORTH OF ABANDONED RUNWAY. SET MDT FENCE POST 2' SOUTHEAST.
633	1,023,969.404	1,980,903.791	4098.23 **	FOUND 2" MDT AC AT MP 80.8, 1100' SOUTH OF HIGHWAY 87, 10' WEST OF EAST "G" STREET R/W FENCE, 28' EAST OF CENTER OF "G" STREET, 23' NORTH OF FIELD APPROACH, 200' SOUTH OF "TOTAL BODY FITNESS CENTER". SET MDT FENCE POST 2' SOUTHEAST.
634	1,021,704.013	1,982,902.262	4087.52 **	FOUND 2" MDT AC AT MP 81.1, 62' NORTHWEST OF AIRPORT ROAD, 46' SOUTHEAST OF CHAIN LINK FENCE AROUND AIRPORT PERIMETER, 150' SOUTHWEST OF CLUSTER OF TREES AND BRUSH. SET MDT FENCE POST 2' NORTHWEST.
635	1,022,838.608	1,983,265.452	4076.14	FOUND 2" MDT AC AT MP 81.2, 100' SOUTH OF HIGHWAY 87, 111'WEST OF AIRPORT ROAD, EAST OF PROJECTED ROW OF TREES, 98' EAST OF CHAIN LINK FENCE NORTHWEST CORNER POST, 250' NORTH OF HIGHWAY DEPARTMENT BUILDING ENTRANCE. SET MDT FENCE POST 2' SOUTHEAST.
638	1,022,872.357	1,977,190.655	4117.46 **	FOUND 2" MDT AC AT MP 80.15, 65' NORTH OF CENTERLINE HIGHWAY 87, 5' SOUTH OF R/W FENCE, 56' EAST OF EAST R/W FENCE PRIVATE ACCESS DRIVE. SET MDT FENCE POST 2' NORTHEAST.

*NAVD88 ORTHOMETRIC HEIGHTS, FROM DIGITAL LEVELS, USING PORT & S176 FOR VERTICAL CONTROL, UNLESS OTHERWISE NOTED
**ELEVATION FROM MDT CONTROL NH 57-3(30)70

NOTE:

THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-1992 NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET. DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE / CSF = GROUND DISTANCE). THE CSF FOR THIS PROJECT IS 0.99919991

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-1992

LEVEL DATUM SOURCE

NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID96 AND HOLDING BMS A295, ARP, F176)



SHEET NO. 3

CONTROL DIAGRAM

PROJECT NAME: SF 189 NORTH D5 SAFETY IMPRV
COUNTY: GOLDEN VALLEY & FERGUS COUNTY
PROJECT ID: HSIP STWD(800)
UPN: 9911000

DESIGNED BY: S. LUCIO 09/2023
REVIEWED BY:
CHECKED BY: J. SOLIDAY 04/2024
9911000SATTL001.DWG

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

RUMBLE STRIPS

REFERENCE POST FROM	REFERENCE POST TO	miles RUMBLE STRIPS INTER-MITTENT	lump sum RUMBLE STRIPS TRANSVERSE ▲	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
125.0	129.5	9.0		528	SITE 1 – MODIFIED SHOULDER RUMBLE STRIPS
79.7	80.0		1.0	4	SITE 2 – TRANSVERSE RUMBLE STRIPS
SUBTOTAL		9.0	1.0	532	
TOTAL		9.0	1.0	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS
▲ SEE DETAILS

CONCRETE MEDIAN

LOCATION	linear feet CURB - SPECIAL DESIGN▲	sq. yards 9" P.C.C.P.	REMARKS
SITE 2	77.7	26.2	
TOTAL	77.7	26.2	

▲ SEE DETAIL

PAVEMENT MARKINGS

ITEM	UNIT	FINAL APPLICA-TION	TOTAL
STRIPING - WHITE EPOXY	gallon	21	21
STRIPING - YELLOW EPOXY	gallon	9	9
WORDS & SYMBOLS - WHITE EPOXY	gallon	10	10
WORDS & SYMBOLS - YELLOW EPOXY	gallon	10	10

SHEET NO.
4

SUMMARY

PROJECT NAME SF 189 NORTH D5 SAFETY IMPRV
COUNTY GOLDEN VALLEY & FERGUS COUNTY
PROJECT ID HSIP STWD(800)
UPN 9911000

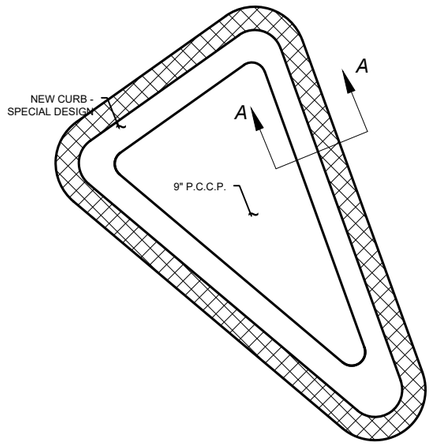
DESIGNED BY S. LUCIO 09/2023
REVIEWED BY
CHECKED BY J. SOLIDAY 04/2024

MONTANA Department of Transportation
ROAD PLANS

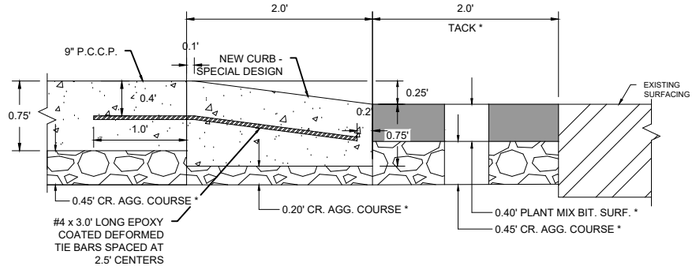
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PLAN VIEW



SECTION A-A

MAXIMUM CONSTRUCTION LIMITS FOR REMOVAL OF EXISTING SURFACING AND PLACEMENT OF FORMS FOR NEW CURB

NOTES:

CURB- SPECIAL DESIGN IS MEASURED ALONG THE FACE OF THE CURB.

* ITEMS ARE NOT MEASURED FOR PAYMENT AND ARE INCLUDED IN THE COST OF NEW CURB - SPECIAL DESIGN AND CONCRETE CAP

DETAIL
CURB - SPECIAL DESIGN

NO SCALE

SHEET NO. 5

PROJECT NAME: SF 189 NORTH D5 SAFETY IMPRV
COUNTY: GOLDEN VALLEY & FERGUS COUNTY
PROJECT ID: HSIP STWD(800) STWD(800)
UPN: 9911000

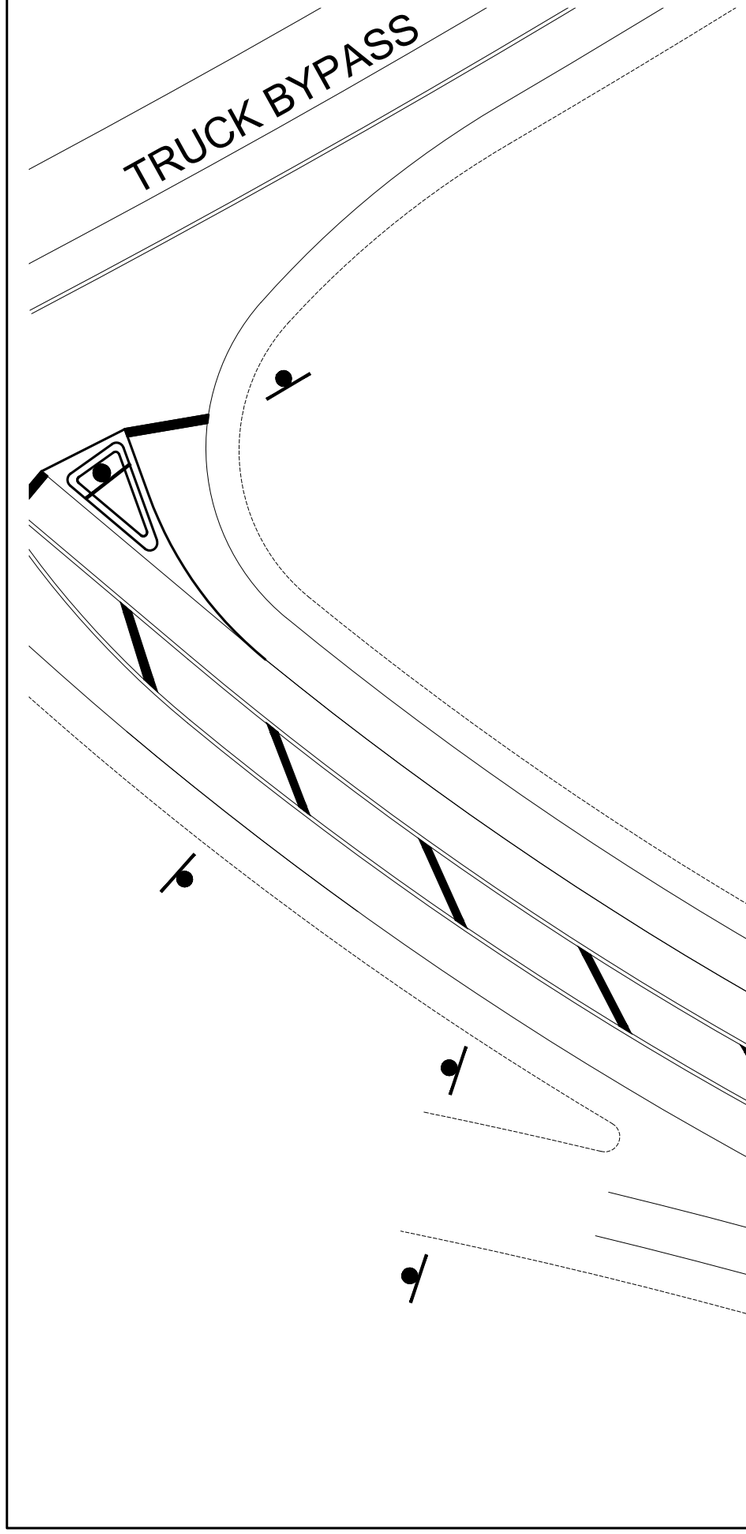
DESIGNED BY: S. LUCIO 09/2023
REVIEWED BY:
CHECKED BY: J. SOLIDAY 04/2024

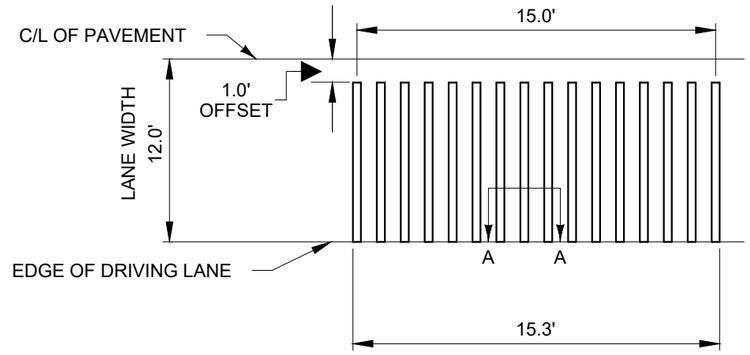
MONTANA Department of Transportation

ROAD PLANS

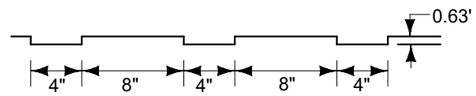
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PLAN



SECTION A-A

SHEET NO.
6

DETAIL TRAVERSE RUMBLE STRIP

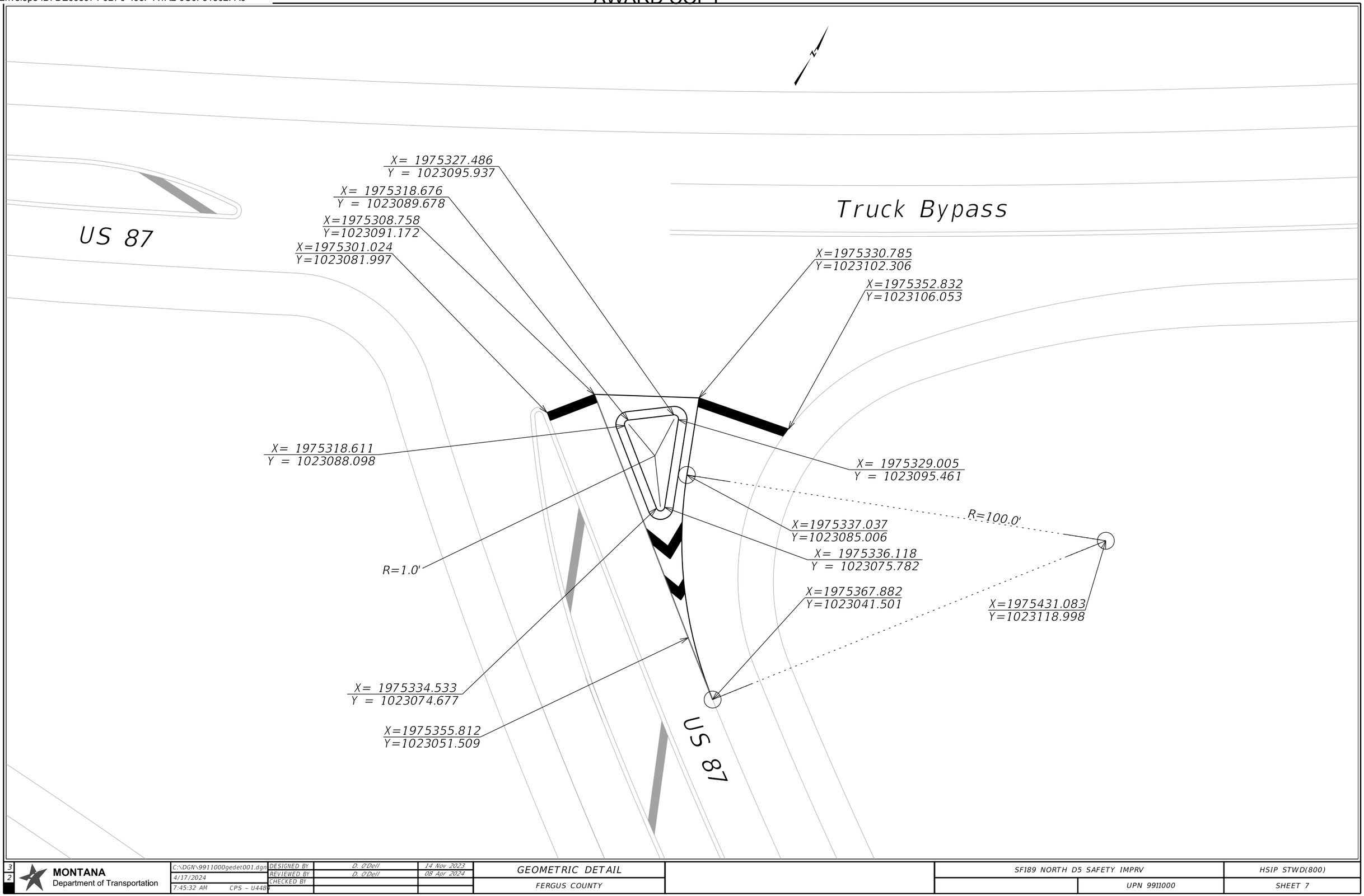
MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY	S. LUCIO	09/2023	
REVIEWED BY			
CHECKED BY	J. SOLIDAY	04/2024	

PROJECT NAME: SF 189 NORTH D5 SAFETY IMPRV
COUNTY: GOLDEN VALLEY & FERGUS COUNTY
PROJECT ID: HSIP STWD(800)
UPN: 9911000
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3	MONTANA Department of Transportation	C:\DGN\9911000gedet001.dgn	DESIGNED BY	D. O'Dell	14 Nov 2023	GEOMETRIC DETAIL	SF189 NORTH D5 SAFETY IMPRV / HSIP STWD(800)
2		4/17/2024	REVIEWED BY	D. O'Dell	08 Apr 2024		
		7:45:32 AM CPS - U448	CHECKED BY			FERGUS COUNTY	UPN 9911000 / SHEET 7

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTALS	UNIT
SIGNS-ALUM REFL SHEET XI	61.0	SQFT
REMOVE SIGN	4	EACH
POSTS-TUBULAR STEEL	286	LB
POSTS-STEEL U SIGN	38	LB
POLES-TREATED WOOD 4 IN	30	LNFT
TYPE 1 DELINEATORS	19	EACH

DELINEATION SPECIFICATIONS

SYMBOL	DESIGN	TOTALS
⊣	A	15
⊣‖	B	1
‖⊣‖	D	3

NOTES:

✕ = 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.)

BBR = BACKBRACING REQUIRED:
- -FOR WOOD POST 2" X 4 " REQ'D.
- - FOR STRUCTURAL STEEL 2" X 2" X 1/4" ANGLE IRON REQ'D.

BGR = BEHIND GUARDRAIL

DSF = DOUBLE SIGN FACE

FY = FLUORESCENT YELLOW SHEETING REQUIRED.

FYG = FLUORESCENT YELLOW - GREEN SHEETING REQUIRED.

MBB = MOUNT BACK TO BACK

RSFO = REPLACE SIGN FACE ONLY.

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

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

SEE LOCATION AND SPECIFICATION SHEETS FOR PORTIONS OF PROJECT NOT INCLUDED WITHIN SIGNING PLAN SHEETS.

SIGN POSTS SYMBOLS SHOWN ARE FOR REFERENCE ONLY TO SHOW EXISTING SIGNS THAT REQUIRE NO ACTION.

STATIONING IS APPROXIMATE. FIELD ADJUST AS NECESSARY.

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

CONTRACTOR WILL CONFIRM THAT THE GROUP NAME ON THE SIGN(S) CURRENTLY EXISTING AT THE TIME OF CONSTRUCTION CORRESPONDS TO THE GROUP NAME ON THE SIGN(S) SHOWN IN PLANS. IF NAME IS DIFFERENT, FIELD PROJECT MANAGER WILL CONTACT TRAFFIC & SAFETY BUREAU SIGNING SECTION WITH CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

WHITE CROSS
BY OTHERS. SIGNS WILL BE "USE AS IS"

SHEET NO.
S1

SIGNING SUMMARY
FRAMES AND NOTES

PROJECT NAME: SF 189 NORTH D5 SAFETY IMPROV
COUNTY: FERGUS
PROJECT ID: HSIP STWD(800)
UPN: 9911000

DESIGNED BY: S MORANO 11/2023
REVIEWED BY: FIRST INITIAL LAST NAME
CHECKED BY: N STYREN 12/2023

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.		DIRECTON	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMV		RESET		SIGN TEXT	SIGN IMAGE	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG					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			
79.120		EB		R1-1	48	x	48	XI	XI					2.00		4.0" Tubular Stl-Round		5.00		3	13.30						13.3				143.00								STOP	STOP	NEW = R1-1
	X			W4-4	48	x	24	XI																		8.0												CROSS TRAFFIC	CROSS TRAFFIC DOES NOT STOP	NEW = W4-4
						x																																		
79.120		EB		R1-1	48	x	48	XI	XI					6.00		4.0" Tubular Stl-Round		5.00		3	13.30						13.3				143.00				1				STOP	STOP	REPLACE = RI-1
X				W4-4	48	x	24	XI																		8.0												CROSS TRAFFIC	CROSS TRAFFIC DOES NOT STOP	NEW = W4-4
79.205		EB		R2-1	30	x	36	XI						10.00		4" Treated Wood Pole		5.00		3	12.60						7.5		14.00										SPEED LIMIT	SPEED LIMIT 45	NEW = R2-1 (45) RP 79.205
		X																																				
79.446		EB		W3-1	36	x	36	XI	XI					10.00		4" Treated Wood Pole		5.00		3	14.70						7.1		16.00						1				STOP AHEAD		REPLACE = W3-1 FROM RP 79.338
X																																								
80.000		EB		D10-2	10	x	27	XI	XI					4.00		2.0lb Steel U Post		4.00		3	10.00						1.9							19.00	1				REFERENCE POST	MILE 80	REPLACE = REF POST (80)
		X																																						
80.000		EB		D10-2	10	x	27	XI	XI					4.00		2.0lb Steel U Post		4.00		3	10.00						1.9							19.00	1				REFERENCE POST	MILE 80	REPLACE = REF POST (80)
X																																								
																				PROJECT TOTALS						61.0		30.0		286.0			38.0	4						

SHEET NO.
S2

SIGN LOCATION AND SPECIFICATIONS

PROJECT NAME: SF 189 NORTH D5 SAFETY IMPROV
COUNTY: FERGUS
PROJECT ID: HSIP STWD(800)
UPN: 9911000

DESIGNED BY	DATE
S MORANO	11/2023
REVIEWED BY	
FIRST INITIAL LAST NAME	
CHECKED BY	12/2023
N STYREN	9911000SIMAP002.DWG

MONTANA
Department of Transportation

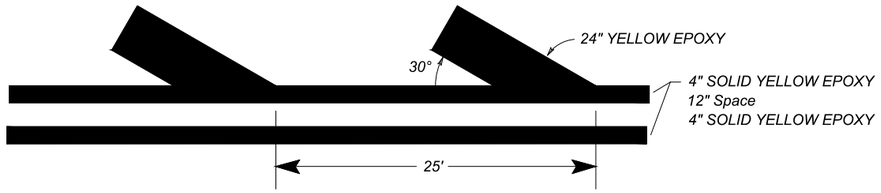
SIGNING PLANS

4/16/2024 8:21 AM

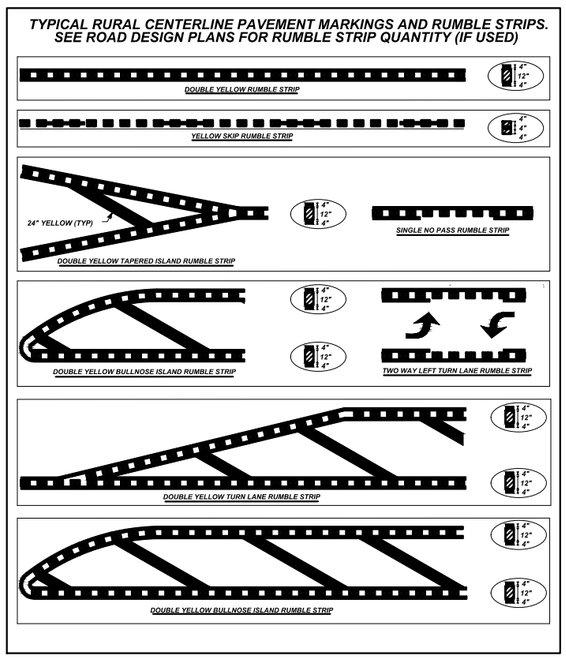
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YELLOW PAINTED MEDIAN DETAIL

NO SCALE

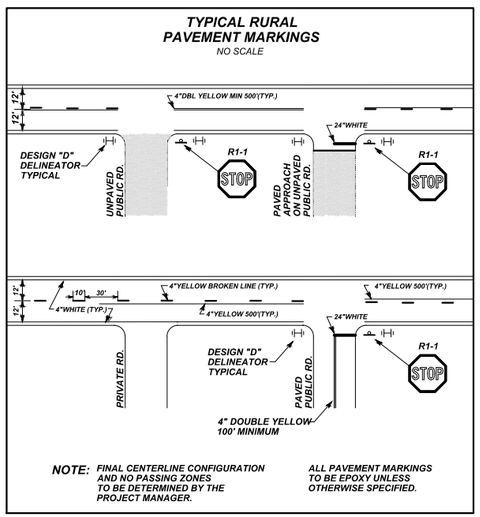


TYPICAL RURAL CENTERLINE PAVEMENT MARKINGS AND RUMBLE STRIPS.
SEE ROAD DESIGN PLANS FOR RUMBLE STRIP QUANTITY (IF USED)



TYPICAL RURAL PAVEMENT MARKINGS

NO SCALE



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

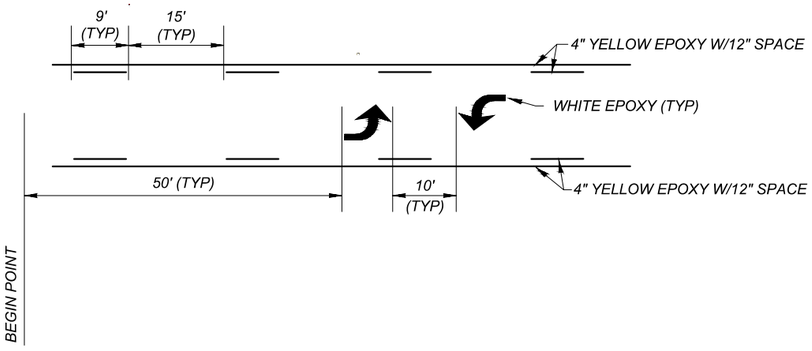
ALL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE SPECIFIED.

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

URBAN TWO WAY LEFT TURN TYPICAL PAVEMENT MARKINGS

NOT TO SCALE



SHEET NO.
S3

DETAIL SHEET

PROJECT NAME: SF 189 NORTH D5 SAFETY IMPROV
COUNTY: FERGUS
PROJECT ID: HSIP STWD(800)
UPN: 99110000

DESIGNED BY: S MORANO 11/2023
REVIEWED BY: FIRST INITIAL LAST NAME
CHECKED BY: N STYREN 12/2023

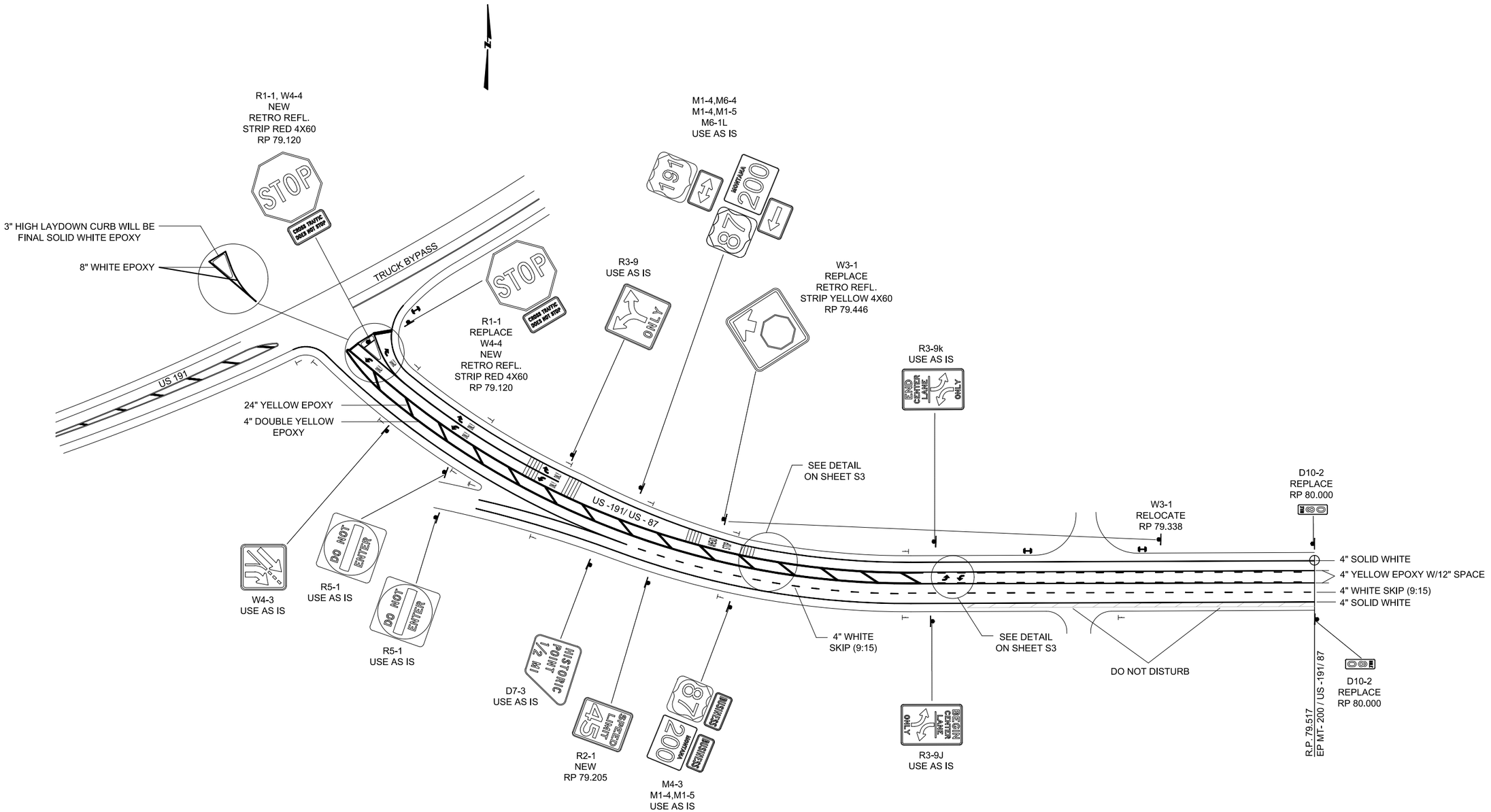
MONTANA Department of Transportation

SIGNING PLANS

4/16/2024 8:21 AM

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SHEET NO.
S4

PLAN SHEET

PROJECT NAME: SF 189 NORTH D5 SAFETY IMPROV
COUNTY: FERGUS
PROJECT ID: HSIP STWD(800)
UPN: 9911000

DESIGNED BY		DATE
S MORANO		11/2023
REVIEWED BY		
FIRST INITIAL LAST NAME		
CHECKED BY		DATE
N STYREN		12/2023

9911000SIMAP002.DWG

MONTANA
Department of Transportation

SIGNING PLANS

4/16/2024 8:21 AM