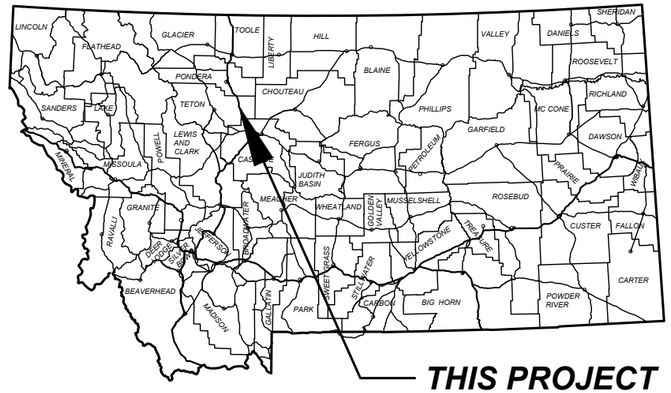
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MONTANA DEPARTMENT OF TRANSPORTATION

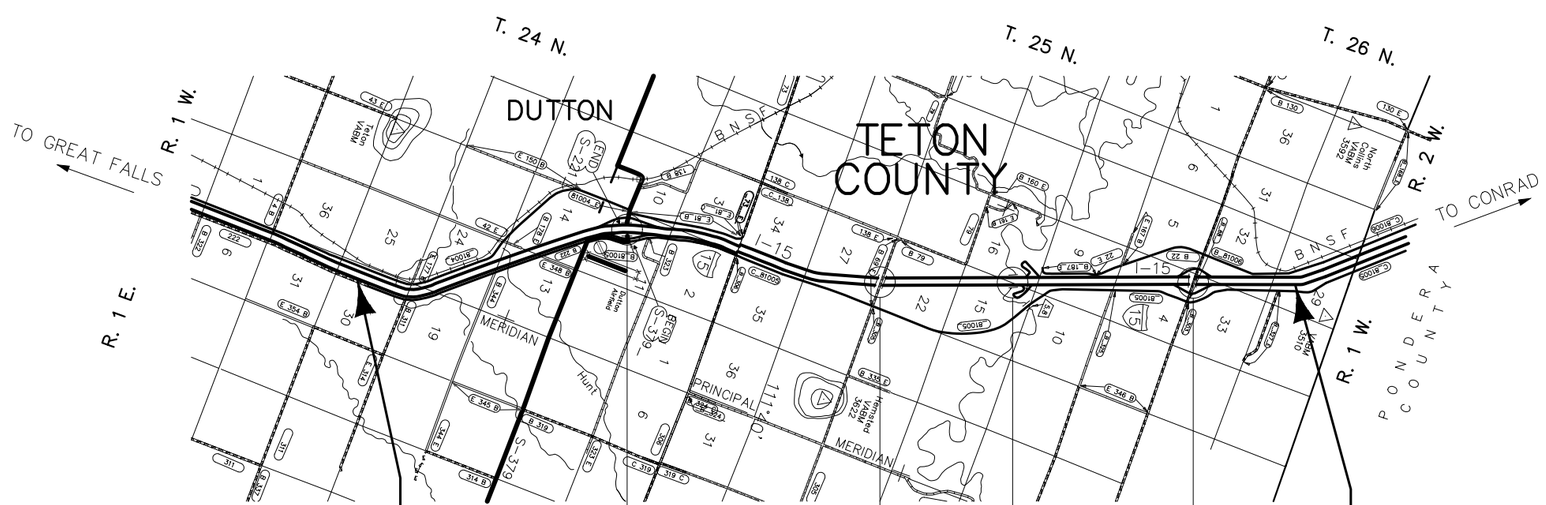
FEDERAL AID PROJECT IM 15-6(48)309
COLD MILL, OVERLAY , S & C, AND BRIDGE WORK
DUTTON - N & S (SB)
TETON COUNTY

LENGTH 12.6 MILES

SURFACING SOURCES -
CONTRACTOR FURNISHED

PROJECT DESIGN DATA

PRESENT	2022	A.D.T. =	3,740
LETTING	2023	A.D.T. =	3,770
DESIGN	2043	A.D.T. =	2.300 (SB)
		D.H.V. =	530
		TRUCKS =	24.6%
		V. =	70 mph
		18 KIP ESAL'S =	486
		GROWTH RATE =	1.0%



RP 323.687 = COUNTY LINE
DISTANCE BETWEEN:
RP 309 AND RP 310 = 0.509 MILES
RP 322 AND RP 323 = 0.607 MILES

SHEET NO. 1

TITLE SHEET

PROJECT NAME	DUTTON - N & S (SB)
COUNTY	TETON COUNTY
PROJECT ID	IM 15-6(48)309
UPN	10237000

DESIGNED BY	J CERECK	3/21/2023
REVIEWED BY	J COMBS	5/20/2023
CHECKED BY	J SABOL	6/8/2023

MONTANA
Department of Transportation

ROAD PLANS

6/15/2023 7:30 AM

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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
ASPHALT CEMENT - GRADE S - 3/4" AGG.	= 5.0% OF PL.MIX BIT.SURF.
HYDRATED LIME	= 1.4% OF PL.MIX BIT.SURF.
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - TACK (CONCRETE SURFACES)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD
CRACK SEAL	= 0.50 LBS. PER LINEAL FT.
CRACK SEAL (EXISTING CRACKS PREVIOUSLY FILLED)	= 0.125 LBS PER LINEAL FT.

PLSS MONUMENT

A PLSS MONUMENT RESIDES +/- 450' SOUTH OF THE SOUTHBOUND BRIDGE OVER THE TETON RIVER AND ABOUT 35' WEST OF THE WEST EDGE OF THE PAVED SURFACE. THIS MONUMENT IS AT THE QUARTER CORNER BETWEEN SECTIONS 15 AND 16 IN T25N, R1W. WHILE IT ISN'T WITHIN THE MILL AREA ON THE PAVED SURFACE IT'S CLOSE ENOUGH THAT ANY CONTRACTOR EQUIPMENT ACTIVITY IN THE AREA COULD DISTURB THE MONUMENT. LOCATE AND PROTECT IT IN PLACE.

AS-BUILTS

IM 15-6(35)309 (UPN 3889) DUTTON - N & S (METRIC) SOFT CONVERTED TO ENGLISH STATIONING

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.

SHEET NO.
2

TABLE OF CONTENTS AND NOTES

PROJECT NAME: DUTTON - N & S (SB)
COUNTY: TETON COUNTY
PROJECT ID: IM 15-6(48)309
UPN: 10237000

CHECKED BY	J SABOL	6/8/2023
REVIEWED BY	J COMBS	5/20/2023
DESIGNED BY	J CERECK	3/16/2023

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MONTANA Department of Transportation

ROAD PLANS

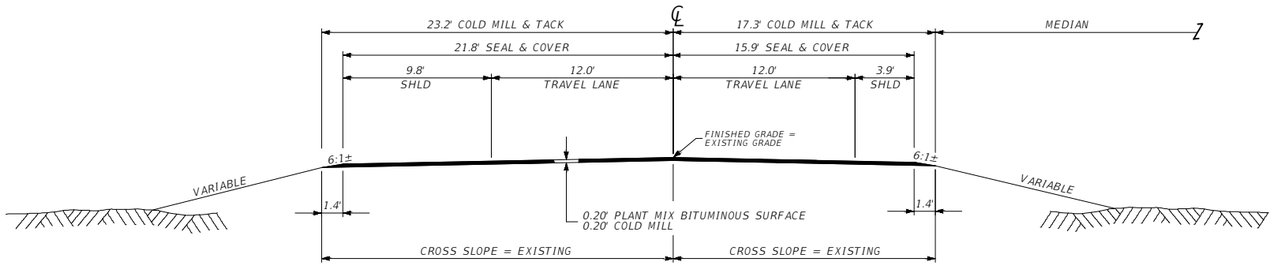
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TYPICAL SECTION NO. 1

SOUTHBOUND

409+50.30			BOP
409+50.30	TO	598+24.80 BE	
598+97.51 BE	TO	876+73.03 BE	
881+08.30 BE	TO	1074+70.93	
		1074+70.93	EOP

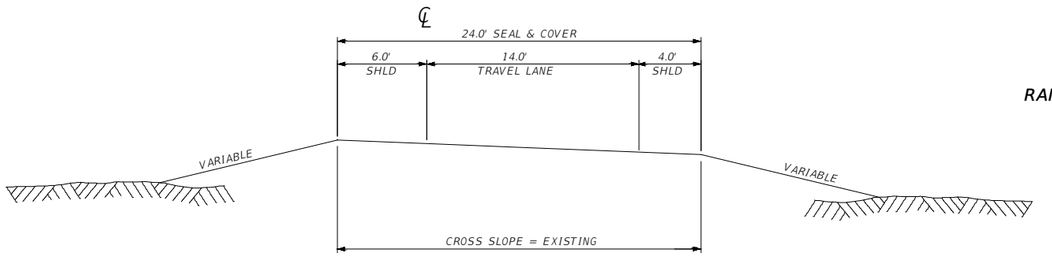


QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX			ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		7.82		square yards PER STATION		419	450
cubic yards PER STATION		29.0		tons PER STATION	2.80	0.75	
tons PER STATION		55.9		gallons PER STATION			23
square yards PER STATION	419						

*BASED ON 1 APPLICATION.

TYPICAL SECTION NO. 2

DUTTON INTERCHANGE & COLLINS ROAD
RAMPS D-1, D-2, C-2



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet				square yards PER STATION		267	
cubic yards PER STATION				tons PER STATION		0.48	
tons PER STATION				gallons PER STATION			
square yards PER STATION	267						

RAMP D-1

586+77.82	TO	598+85.79	GORE TO END OF RAMP

RAMP D-2

598+34.71	TO	611+05.64	BEGIN OF RAMP TO GORE

RAMP C-2

1011+01.80	TO	1020+34.12	BEGIN OF RAMP TO GORE

NOTE: SEE GORE AREA DETAIL FOR TRANSITION TO MAINLINE QUANTITY.

SHEET NO. 3

TYPICAL SECTIONS

PROJECT NAME: DUTTON - N & S (SB)
COUNTY: TETON COUNTY
PROJECT ID: IM 15-6(48)309
UPN: 1237000

CHECKED BY	J SABOL	6/8/2023	
REVIEWED BY	J COMBS	5/20/2023	
DESIGNED BY	J CERECK	3/14/2023	1023700RDTYP001.DWG

MONTANA Department of Transportation

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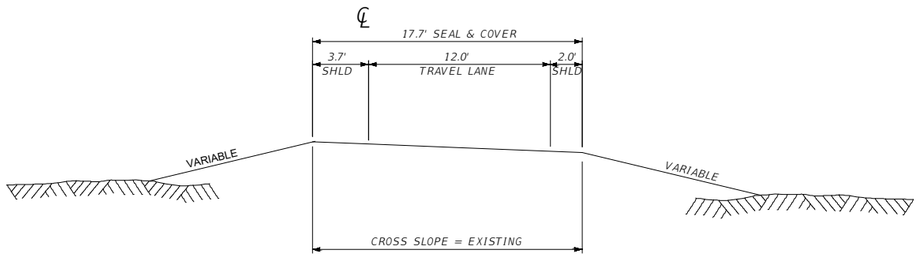
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TYPICAL SECTION NO. 3

COLLINS ROAD - RAMP C-1

RAMP C-1

997+37.53 T01011+94.55 GORE TO END OF RAMP



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet				square yards PER STATION		197	
cubic yards PER STATION				tons PER STATION		0.35	
tons PER STATION				gallons PER STATION			
square yards PER STATION	197						

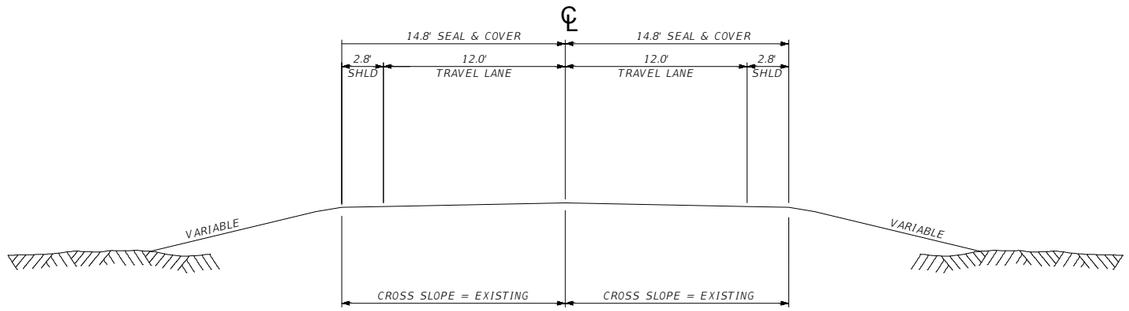
NOTE: SEE GORE AREA DETAIL FOR TRANSITION TO MAINLINE QUANTITY.

TYPICAL SECTION NO. 4

DUTTON INTERCHANGE CROSS ROAD (D-LINE)

D-LINE

16+46.81 TO 22+63.78 R/W LIMITS TO R/W LIMITS



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet				square yards PER STATION		329	
cubic yards PER STATION				tons PER STATION		0.59	
tons PER STATION				gallons PER STATION			
square yards PER STATION	329						

SHEET NO. 4

TYPICAL SECTION

PROJECT NAME: DUTTON - N & S (SB)
COUNTY: TETON COUNTY
PROJECT ID: IM 15-6(48)309
UPN: 10237000

CHECKED BY	J SABOL	6/8/2023	
REVIEWED BY	J COMBS	5/20/2023	
DESIGNED BY	J CERECK	3/14/2023	10237000RDTYP001.DWG

MONTANA Department of Transportation

ROAD PLANS

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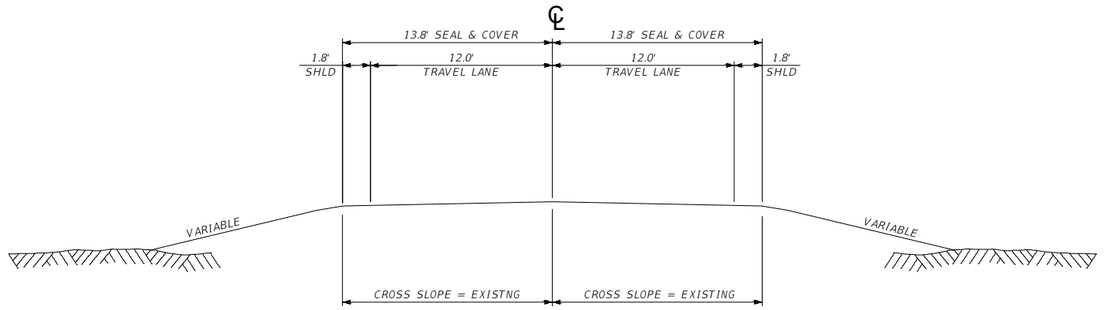
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TYPICAL SECTION NO. 5

COLLINS ROAD INTERCHANGE CROSS ROAD (C-LINE)

C-LINE

6+50.00 BE TO 10+17.06 WEST B.E. TO WEST R/W LIMITS



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	307			square yards PER STATION tons PER STATION gallons PER STATION		307 0.55	

TYPICAL SECTION NO. 6

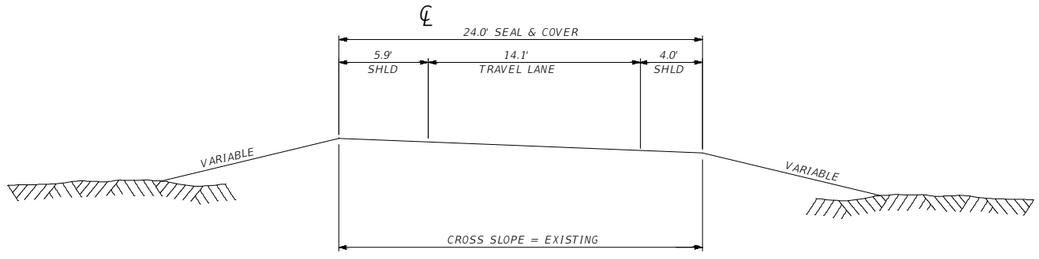
TETON RESTAREA
RAMPS R-1 AND R-2

RAMP R-1

891+89.63 TO 898+29.40 GORE TO PARKING AREA

RAMP R-2

883+19.88 TO 901+23.72 PARKING AREA TO GORE



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	267			square yards PER STATION tons PER STATION gallons PER STATION		267 0.48	

NOTE: SEE GORE AREA DETAIL FOR TRANSITION TO MAINLINE QUANTITY.

SHEET NO. 5

TYPICAL SECTION

PROJECT NAME DUTTON - N & S (SB)
COUNTY TETON COUNTY
PROJECT ID IM 15-6(48)309
UPN 10237000

DESIGNED BY	J CERECK	3/14/2023	10237000RDTYP001.DWG
REVIEWED BY	J COMBS	5/20/2023	
CHECKED BY	J SABOL	6/8/2023	

MONTANA Department of Transportation

ROAD PLANS

6/15/2023 7:35 AM

SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 2	AGGREGATE tons PLANT MIX BIT. SURF. GR. S-3/4"	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 70-28	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	REMARKS
409+50.30													
598+24.80 BE	598+97.51 BE				72.71	DUTTON INTERCHANGE							
876+73.03 BE	881+08.30 BE				435.27	TETON RIVER							
	1074+70.93	66,520.63	66,012.65					276,593	36,901	1,848.4	495.1	15,183	TYPICAL SECTION NO. 1
						ADDITIONAL SURFACING		30,399			54.5		
TOTAL		66,520.63	66,012.65	~	507.98		517	306,992	36,901	1,848.4	549.6	15,183	

* ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 2	AGGREGATE tons PLANT MIX BIT. SURF. GR. S-3/4"	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 70-28	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	REMARKS
586+77.82	598+85.79	1,207.97	1,207.97			RAMP D-1		3,225			5.8		TYP. SECT. NO. 2 - GORE TO RAMP END
598+34.71	611+05.64	1,270.93	1,270.93			RAMP D-2		3,393			6.1		TYP. SECT. NO. 2 - BEGIN RAMP TO GORE
997+37.53	1011+94.55	1,457.02	1,457.02			RAMP C-1		2,870			5.1		TYP. SECT. NO. 3 - GORE TO RAMP END
1011+01.80	1020+34.12	932.32	932.32			RAMP C-2		2,489			4.5		TYP. SECT. NO. 2 - BEGIN RAMP TO GORE
16+46.81	22+63.78	616.97	616.97			D-LINE		2,030			3.6		TYP. SECT. NO. 4 - R/W TO R/W
6+50.00	10+17.06	367.06	367.06			C-LINE		1,127			2.0		TYP. SECT. NO. 5 - BE TO R/W
891+89.63	898+29.40	639.77	639.77			RAMP R-1		1,708			3.1		TYP. SECT. NO. 6 - GORE TO REST AREA
883+19.88	901+23.72	1,803.84	1,803.84			RAMP R-2		4,816			8.7		TYP. SECT. NO. 6 - REST AREA TO GORE
						PARKING AREA		4,493			8.0		MEASURED ON CADD
						GORE AREAS		4,248			7.6		MEASURED ON CADD
SUBTOTAL		~	~	~	~		~	30,399	~	~	54.5	~	

* SEE DETAILS.

COLD MILLING *

STATION FROM	STATION TO	sq. yards COLD MILLING 0.20 ft	REMARKS
409+50.30	598+24.80 BE	84,935	40.5' WIDTH
598+97.51 BE	876+73.03 BE	124,990	40.5' WIDTH
881+08.30 BE	1074+70.93	87,132	40.5' WIDTH
TOTAL		297,057	

* SEE TYPICAL SECTIONS AND SPECIAL PROVISIONS.

RUMBLE STRIPS

STATION FROM	STATION TO	miles RUMBLE STRIPS CONTIN-UOUS	miles RUMBLE STRIPS INTER-MITTENT	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
409+50.30	1074+70.93	12.5		1,467	LT.
409+50.30	1074+70.93		11.5	1,350	RT.
SUBTOTAL		12.5	11.5	2,817	
TOTAL		24.0		~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICA-TION #	FINAL APPLICA-TION	TOTAL
STRIPING - WHITE PAINT	gallon	674		674
STRIPING - YELLOW PAINT	gallon	544		544
WORDS & SYMBOLS - WHITE PAINT	gallon	16		16
STRIPING - WHITE EPOXY	gallon		449	449
STRIPING - YELLOW EPOXY	gallon		362	362
WORDS & SYMBOLS - WHITE EPOXY	gallon		10	10
CURB MARKING - YELLOW EPOXY	gallon		4	4
TEMPORARY STRIPING	linear feet			33,260
FINAL SWEEP AND BROOM	course mile			12.6

BASED ON 2 APPLICATIONS.

BRIDGE ITEMS

MONTANA STRUCTURE ID	NBI NUMBER	AS-BUILT DRAWING NUMBER	square yards BRIDGE DECK CRACK SEAL	square yards CLASS A BRIDGE DECK REPAIR	REMARKS
01271	I00015313+0284	10621	538.0	5.0	DUTTON INT. BRIDGE
04584	L50069002+07001	10909	909.8	5.0	20TH RD. NE BRIDGE
01273	I00015318+05742	10915	2,004.8	16.0	TETON RIVER BRIDGE
04594	L50088000+01001	10923	1,042.2	5.0	COLLINS ROAD INT. BRIDGE
TOTAL			4,494.8	31.0	

SPECIFIC CLASS A BRIDGE DECK REPAIR AREAS ARE NOT IDENTIFIED IN THE CONTRACT. CLASS A BRIDGE DECK REPAIR QUANTITIES ARE PROVIDED AS A CONTINGENCY. THE PROJECT MANAGER WILL IDENTIFY ANY CLASS A BRIDGE DECK REPAIR AREAS IF THEY ARE NEEDED.

CRACK SEALING *

STATION FROM	STATION TO	TRANSVERSE & LONGITUDINAL CRACK SEALING CRACK SEALING NEW pounds	EXISTING pounds	NEW linear feet	EXISTING linear feet	REMARKS
409+50.30	1074+70.93	1,812	517	3,624	4,134	RAMPS/CROSSROADS/PARKING AREA
SUBTOTAL		1,812	517	#	#	
TOTAL		2,329		#	#	

* SEE DETAIL SHEET
# FOR INFORMATION ONLY

SHEET NO. 6

SUMMARY

PROJECT NAME: DUTTON - N & S (SB)
COUNTY: TETON COUNTY
PROJECT ID: IM 15-6(48)309
UPN: 10237000

CHECKED BY	J SABOL	6/8/2023	
REVIEWED BY	J COMBS	5/20/2023	
DESIGNED BY	J CERECK	2/23/2023	

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MONTANA Department of Transportation

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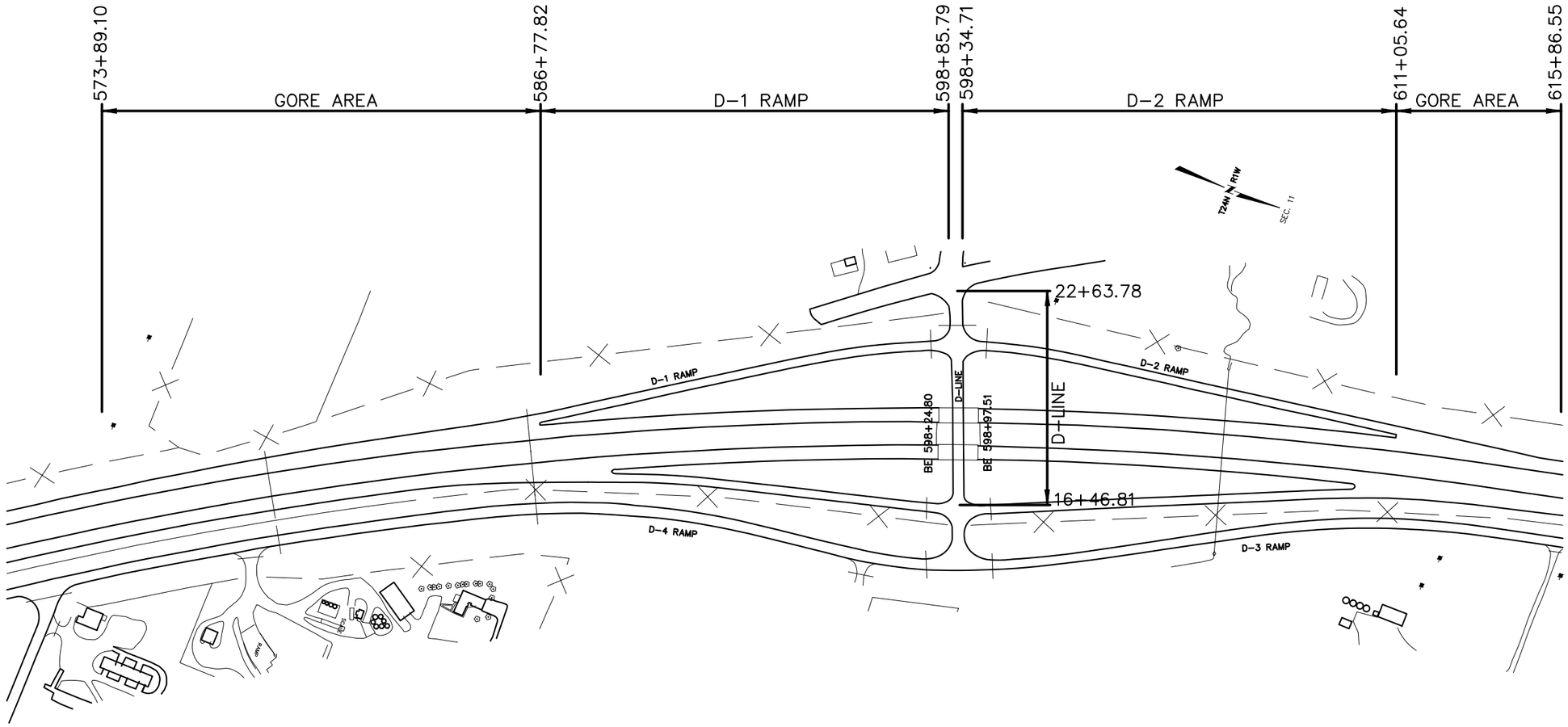
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DETAIL

(NO SCALE)

DUTTON INTERCHANGE DETAIL



SHEET NO. 7

DUTTON INTERCHANGE DETAIL

PROJECT NAME: DUTTON - N & S (SB)
COUNTY: TETON COUNTY
PROJECT ID: IM 15-6(48)309
UPN: 10237000

CHECKED BY	J SABOL	6/8/2023
REVIEWED BY	J COMBS	5/20/2023
DESIGNED BY	J CERECK	3/1/2023

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MONTANA Department of Transportation

ROAD PLANS

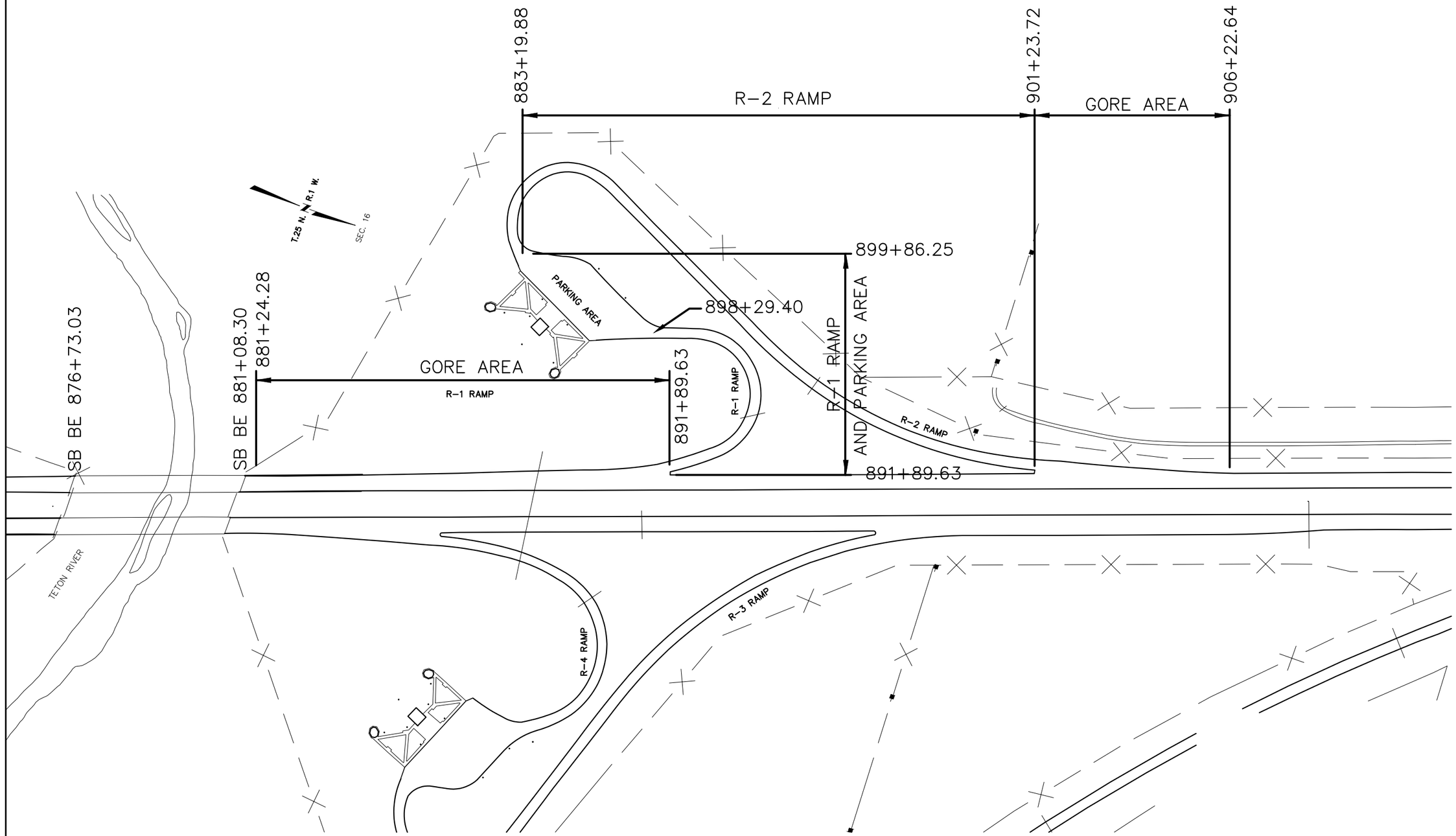
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DETAIL

(NO SCALE)

TETON REST AREA INTERCHANGE DETAIL



SHEET NO. 8

TETON REST AREA INTERCHANGE DETAIL

PROJECT NAME	DUTTON - N & S (SB)
COUNTY	TETON COUNTY
PROJECT ID	IM 15-6(48)309
UPN	10237000

DESIGNED BY	J CERECK	3/1/2023
REVIEWED BY	J COMBS	5/20/2023
CHECKED BY	J SABOL	6/8/2023

MONTANA Department of Transportation

ROAD PLANS

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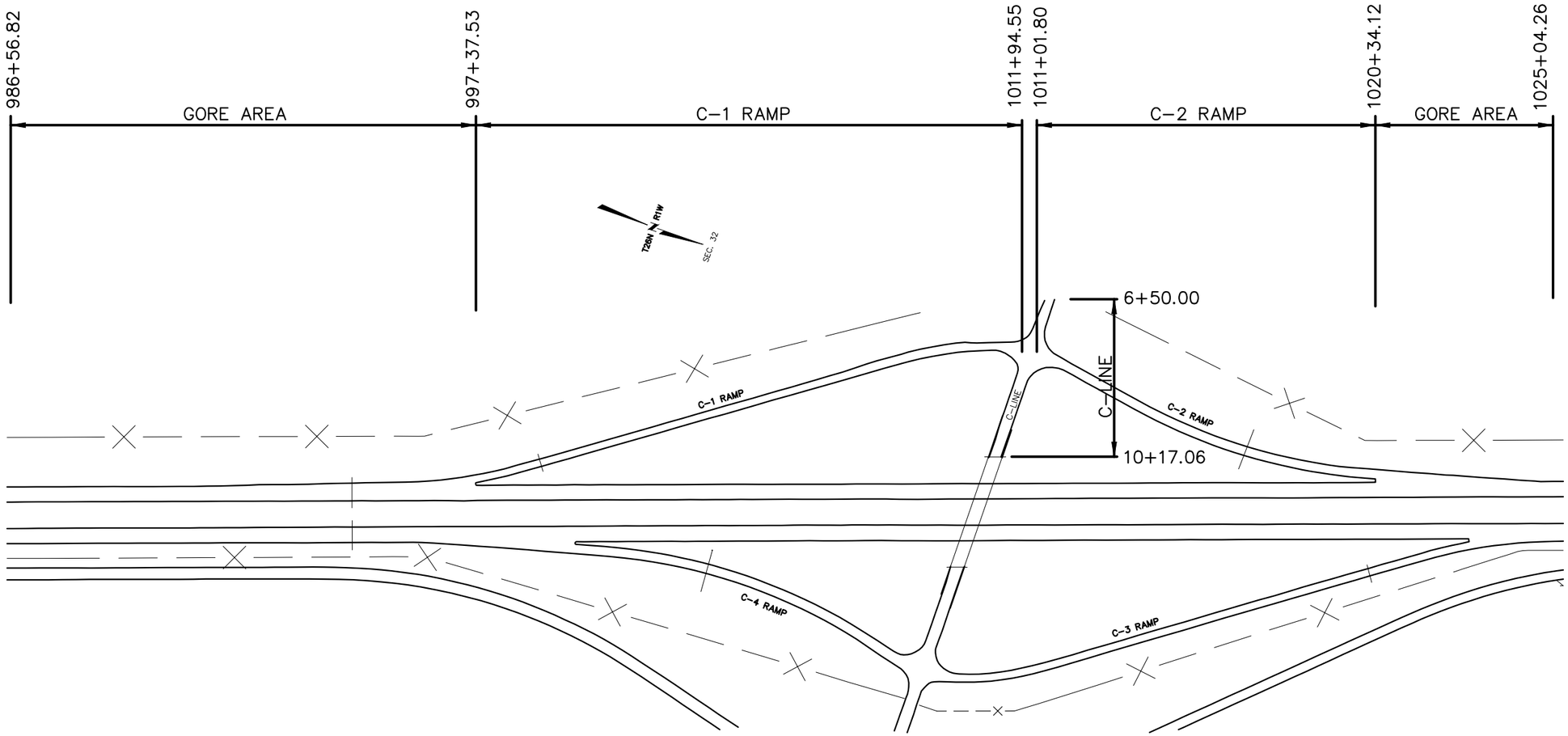
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DETAIL

(NO SCALE)

COLLINS ROAD INTERCHANGE DETAIL



SHEET NO. 9

COLLINS ROAD INTERCHANGE DETAIL

MONTANA Department of Transportation

ROAD PLANS

PROJECT NAME		DUTTON - N & S (SB)
COUNTY		TETON COUNTY
PROJECT ID		IM 15-6(48)309
UPN		10237000
DESIGNED BY	J CERECK	3/1/2023
REVIEWED BY	J COMBS	5/20/2023
CHECKED BY	J SABOL	6/8/2023

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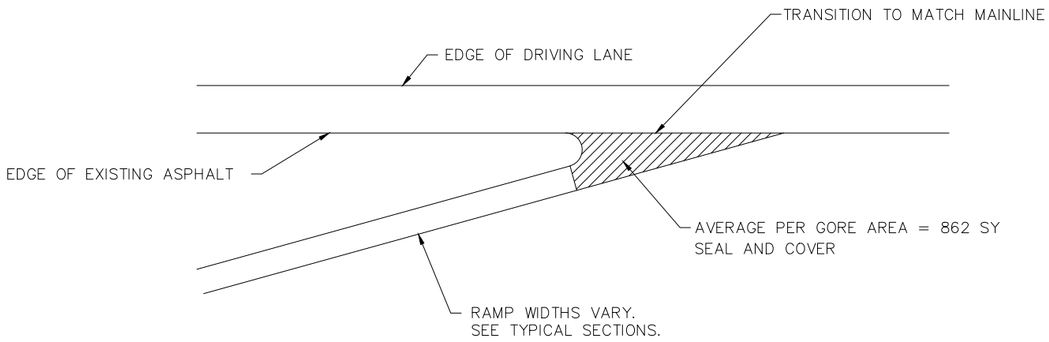
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DETAIL

(NO SCALE)

RAMP GORE AREA



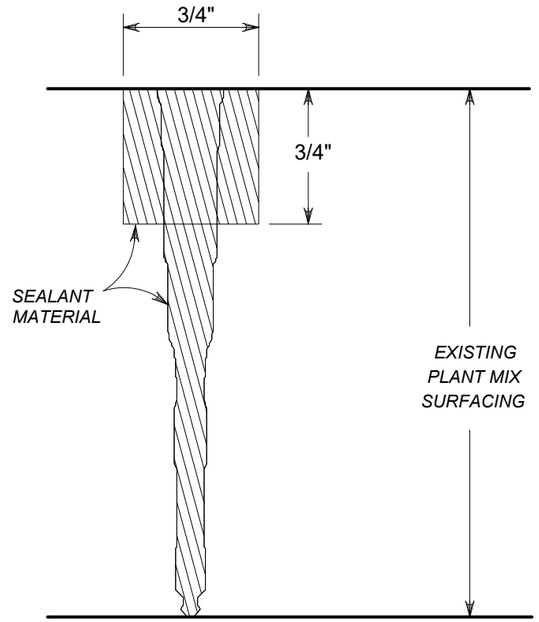
FOR RAMP QUANTITIES SEE TYPICAL SECTIONS.

AVERAGE QUANTITIES PER GORE AREA							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			
	COVER				SEAL		
AREA square feet			square yards PER STATION		862		
cubic yards PER STATION			tons PER STATION		1.54		
tons PER STATION							
square yards PER STATION	862						

CRACK SEAL

NOTE:
DO NOT ROUT CRACKS LARGER THAN 3/4" WIDE. CLEAN AND SEAL IN ACCORDANCE WITH SECTION 403.

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



SHEET NO. 10

RAMP GORE AREA AND CRACK SEAL DETAILS

PROJECT NAME: DUTTON - N & S (SB)
COUNTY: TETON COUNTY
PROJECT ID: IM 15-6(48)309
UPN: 10237000

CHECKED BY	J SABOL	6/8/2023
REVIEWED BY	J COMBS	5/20/2023
DESIGNED BY	J CERECK	3/1/2023

10237000RDDET002.DWG

MONTANA Department of Transportation

ROAD PLANS

6/15/2023 7:32 AM

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV		SQ. FOOT
SIGNS-ALUM REFL SHEET XI	320.4	SQ. FOOT
SIGNS-ALUM SHEET INCR IV		SQ. FOOT
SIGNS-ALUM SHEET INCR XI	869.9	SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL U SIGN	540	POUNDS
POLES-TREATED WOOD 4 IN	84	LINEAR FT.
POLES-TREATED WOOD 5 IN	40	LINEAR FT.
POLES-TREATED WOOD 6 IN	16	LINEAR FT.
POLES-TREATED TIMBER-CLASS 4		LINEAR FT.
POLES-TREATED TIMBER-CLASS 3		LINEAR FT.
POSTS-TUBULAR STEEL	144	POUNDS
POSTS-TUBULAR STEEL-SQ-PERF		POUNDS
POSTS-STEEL STRUCTURAL SIGN	344	POUNDS
OVERHEAD STR/METAL-CANTILEVER		EACH
OVERHEAD STR/METAL-BRIDGE		EACH
HIGHWAY TRAFFIC STRIPING-WHITE		GAL.(S)
HIGHWAY TRAFFIC STRIPING-YELLOW		GAL.(S)
WORDS & SYMBOLS		GAL.(S)
DELINEATOR TYPE 1	579	EACH
DELINEATOR DES A		EACH
DELINEATOR DES B		EACH
DELINEATOR DES C		EACH
DELINEATOR DES D		EACH
DELINEATOR DES BJ		EACH
DELINEATOR DES GJ		EACH
DELINEATOR DES G		EACH
DELINEATOR DES H		EACH
REMOVE SIGNS	28	EACH
REMOVE SIGNS-GUIDE	14	EACH
RESET SIGNS		EACH
RESET SIGNS-GUIDE		EACH
FRANG SIGN POST BKWY- S5x10	2	EACH
FRANG SIGN POST BKWY- 3-1/2" RD	1	EACH
SQ TUBLR SLIP BASE BKWY-3 IN		EACH

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

***"RT = outside shoulder (west side) of Southbound lane"

STATION	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	TIMBER POLE (LINEAR FT.): 6" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET	REMARKS
I-15 MAINLINE																													
309.000 Rt.	SB	D10-6	10"x36"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 309
310.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 310
311.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 311
312.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 312
312.310 Lt.	Med	R5-11 (2)	30"x24"	XI		30-0		4" Dia. POST		12-6		7-0	3-0	5.0 5.0			14								1					END STEEL BARRIER / ADVANCED WARNING SIGNS ONLY
312.320 Rt.	SB	G11-312a	126"x60"	XI	XI	——	R.S.F.O.	——		——					52.5											1				Power 10 Vaughn Jct 22 Great Falls 31
312.515 Rt.	SB	R2-1 (80)	48"x60"	XI		——	R.S.F.O.	——		——				20.0											1					SPEED LIMIT 80
		R2-2 (70)	48"x36"	XI		——	R.S.F.O.	——		——				12.0																TRUCKS 70
312.705 Rt.	SB	M3-3A (South)	30"x15"	XI	XI	20-0		5" Dia. POST		18-5		7-0	3-6	3.1				20						X	1					SOUTH INTERSTATE 15
		M1-1 (15)	36"x36"	XI	XI									7.2																
313.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 313
313.375 Rt.	SB	W8-12b	36"x36"	XI		——	R.S.F.O.	——		——				9.0											1					WATCH FOR ICE ON BRIDGE — Folding Panel
313.470 Rt.	SB	EG-313	90"x60"	XI	XI	——	R.S.F.O.	——		——					37.5											1					EXIT 313
313.624 Rt.	SB	E-313	114"x30"	XI	XI	——	R.S.F.O.	——		——					23.8											1					EXIT 313 Dutton Choteau
		G11-313	138"x150"	XI	XI										143.8															
314.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 314
314.005 Rt.	SB	IS21-312	126"x66"	XI	XI	——	R.S.F.O.	——		——					57.8											1					1 NEXT RIGHT
314.230 Lt.	Med	R5-11 (2)	30"x24"	XI		30-0		4" Dia. POST		12-6		7-0	3-0	9.0 9.0			14								1					END STEEL BARRIER / ADVANCED WARNING SIGNS ONLY
314.495 Rt.	SB	E-313	114"x30"	XI	XI	——	R.S.F.O.	——		——					23.8															EXIT 313 Dutton Choteau 1 MILE
		G2-117	138"x144"	XI	XI	——	R.S.F.O.	——		——					138											1				
315.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 315
316.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 316
317.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 317
318.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 318
318.094 Lt.	Med	R5-11 (2)	30"x24"	XI		30-0		4" Dia. POST		12-6		7-0	3-0	9.0 9.0			14								1					END STEEL BARRIER / ADVANCED WARNING SIGNS ONLY
318.150 Rt.	SB	W8-21	48"x48"	XI		20-0		3-1/2" PIPE		15-7		7-0		16.0						144				■						NEW — GUSTY WINDS AREA — Mount Windsock on top of W8-21
318.624 Rt.	SB	N6-2	54"x42"	XI	XI	4-0		6" Dia. POST		16-0		7-0	4-0		15.8				16					X	1				BBR	Teton River — Behind Guardrail
318.769 Rt.	SB	W8-12b	48"x48"	XI		——	R.S.F.O.	——		——				16.0											1					WATCH FOR ICE ON BRIDGE — Folding Panel
319.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1					MILE 319
319.015 Rt.	SB	IS-5	78"x78"	XI	XI	——	R.S.F.O.	——		——					42.3											1					REST AREA — Mount Back to Back
		R5-1a	42"x30"	XI	XI									8.8																WRONG WAY

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

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

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

STATION	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	TIMBER POLE (LINEAR FT.): 6" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET	REMARKS
318.450 Rt.	NB	W11-3	48"x48"	XI		20-0		S5x10		17-2		7-7	3-6	16.0								172		■				BBR	NEW
		W11-3p	30"x24"	XI										5.0															NEXT 1-1/2 MILES
318.489 Rt.	SB	IS-4	150"x60"	XI	XI	——	R.S.F.O.	——							62.5											1			REST AREA NEXT RIGHT
		D9-6	24"x24"	XI	XI	——	R.S.F.O.	——						4.0														
319.574 Lt.	Med	R5-11 (2)	30"x24"	XI		30-0		4" Dia. POST		12-6		7-0	3-0	5.0 5.0			14								1				
319.750 Lt.		W11-3	48"x48"	XI		20-0		S5x10		17-2		7-7	3-6	16.0								172		■				BBR	NEW
	SB	W11-3p	30"x24"	XI										5.0															NEXT 1-1/2 MILES
320.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1				MILE 320
320.155 Rt.	SB	G11-343	150"x60"	XI	XI	——	R.S.F.O.	——							62.5											1			Dutton 7 Vaughn Jct 30 Great Falls 39
320.340 Rt.	SB	R2-1 (80)	48"x60"	XI		——	R.S.F.O.	——						20.0											1				SPEED LIMIT 80
		R2-2 (70)	48"x36"	XI		——	R.S.F.O.	——						12.0															TRUCKS 70
320.341 Lt.	Med	R5-11 (2)	30"x24"	XI		30-0		4" Dia. POST		12-6		7-0	3-0	5.0 5.0			14								1				
320.535 Rt.	SB	M3-3A (South)	30"x15"	XI	XI	20-0		5" Dia. POST		18-5		7-0	3-6	3.1				20						X	1				SOUTH INTERSTATE 15
		M1-1 (15)	36"x36"	XI	XI									7.2															
321.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1				MILE 321
321.100 Rt.	SB	IS3-1	144"x60"	XI	XI	——	R.S.F.O.	——							66.0											1			REST AREA 2 MILES
		IS6-18	120"x36"	XI	XI	——	R.S.F.O.	——							40.3														NEXT REST AREA 80 MILES 80 MILES
		D9-6	12"x48"	XI	XI	——	R.S.F.O.	——						4.0															
321.239	SB	EG-321	66"x48"	XI	XI	——	R.S.F.O.	——							22.0											1			EXIT 321
321.799 Rt.	SB	E-321	114"x30"	XI	XI	——	R.S.F.O.	——							23.8											1			EXIT 321 Collins Rd 1/2 MILE
		G6-26	138"x60"	XI	XI										57.5														
322.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1				MILE 322
322.065 Lt.	Med	R5-11 (2)	30"x24"	XI		30-0		4" Dia. POST		12-6		7-0	3-0	5.0 5.0			14								1				
323.000 Rt.	SB	D10-6	12"x48"	XI	XI	6-0		3 lb/ft STL-U		11-0		4-0	3-0	4.0									36		1				MILE 323
I-15 MAINLINE TOTALS														320.4	869.9		84	40	16	144		344	540		28		14		

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

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

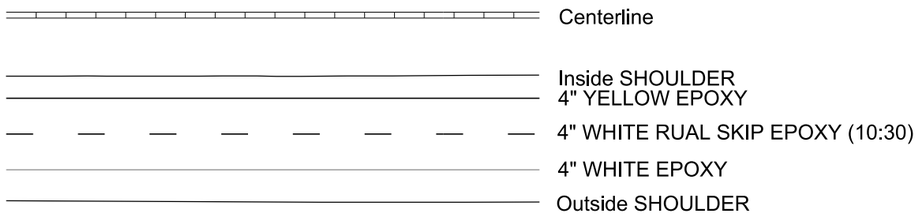
■ = FRANGIBLE SIGN POST BREAKAWAY DEVICE REQUIRED.

DELINEATION TABLE		
⊣	DESIGN "A"	225
⊣|	DESIGN "B"	11
⊢	DESIGN "C"	
⊣⊢	DESIGN "D"	24
⊣||	DESIGN "E"	
⊢	DESIGN "F"	
⊣<	DESIGN "G"	67
⊣>	DESIGN "H"	148
⊣×	DESIGN "J"	
×⊣|	DESIGN "BJ"	57
×⊣<	DESIGN "GJ"	47

AWARD COPY

DETAILS

INTERSTATE RURAL SKIP STRIPING



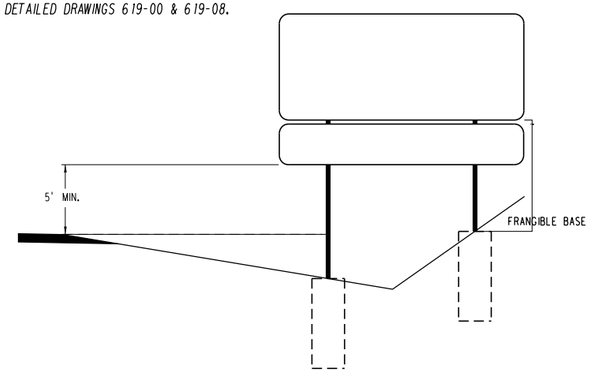
NOTES:

1. For Median Widths of 76 feet or less, mount the R5-11 signs back to back. Install at the centerline of the Median and on the side of the U - Turn away from the nearest Interchange.

2. For Median Widths greater then 76 feet, install the R5-11 signs separately on both sides of the U - Turn at clearances specified in the Sign Location and Specifications.

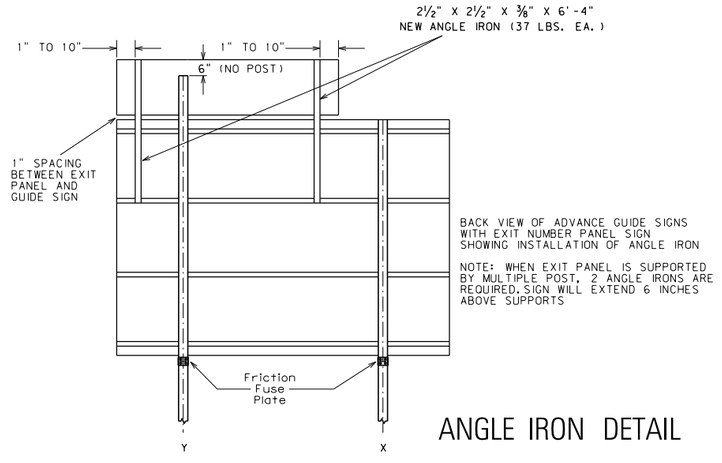
3. For openings though Median Guard Rails, install the sign post in line with the Guard Rail Posts.

MINIMUM MOUNTING HEIGHTS SHOWN IN LOCATION AND SPECIFICATION SHEETS REFER TO THE BOTTOM OF THE MAJOR PANEL. MOUNTING HEIGHTS WILL INCREASE WITH ADDITIONAL PANELS. SEE DETAILED DRAWINGS 619-00 & 619-08.

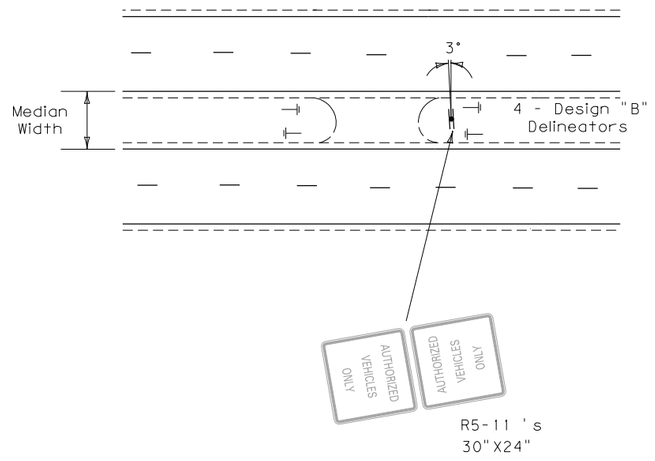


GUIDE SIGN MOUNTING HEIGHT DETAIL

R.S.F.O. GUIDE SIGNS with EXIT PANELS



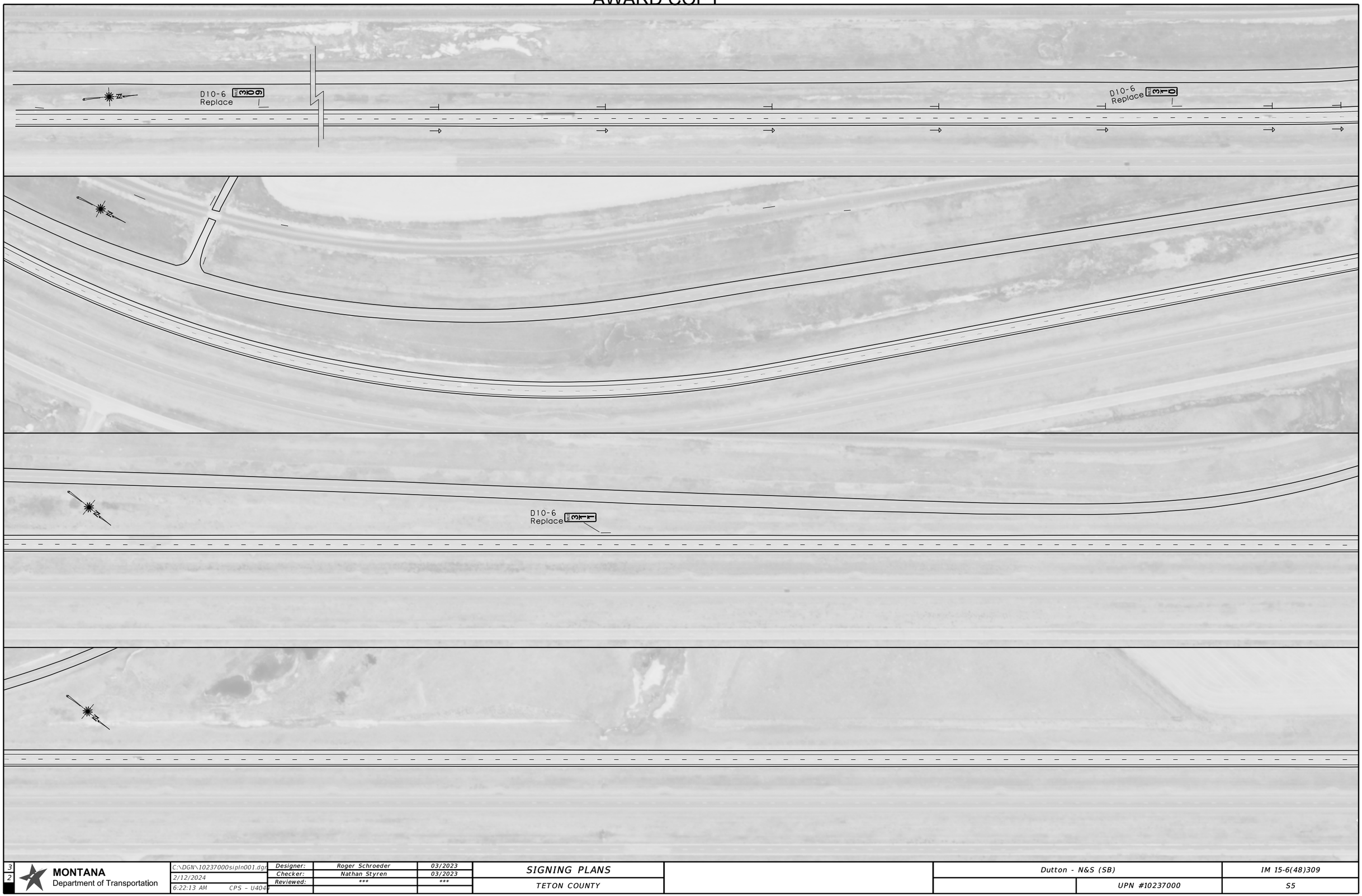
ANGLE IRON DETAIL



MEDIAN U – TURN SIGNING

3	MONTANA Department of Transportation	C:\DGN\10237000side001.dgn	Designer:	Roger Schroeder	03/2023	SIGNING PLANS	Dutton - N&S (SB) / IM 15-6(48)309
2		2/12/2024	Checker:	Nathan Styren	03/2023		
1		6:21:53 AM CPS - U4044	Reviewed:	***	***	TETON COUNTY	UPN #10237000 / S4

AWARD COPY



3	MONTANA Department of Transportation	C:\DGN\10237000sipln001.dgn	Designer:	Roger Schroeder	03/2023	SIGNING PLANS	Dutton - N&S (SB) / IM 15-6(48)309
2		2/12/2024	Checker:	Nathan Styren	03/2023		
		6:22:13 AM CPS - U404	Reviewed:	***	***	TETON COUNTY	UPN #10237000 / S5

AWARD COPY

D10-6
Replace
M3-2

(2) R4-14
REPLACE
AUTHORIZED VEHICLES ONLY
AUTHORIZED VEHICLES ONLY

10 22 31
Power
Vaughn Jct
Great Falls
G11-341
R. S. F. O.

R2-1(75)
R2-2A
R. S. F. O.
SPEED LIMIT 80
TRUCKS 70

M3-3a
M1-1
R. S. F. O.
SOUTH
Alternate
15

D10-6
Replace
M3-3

W12-8b
R. S. F. O.

EXIT
313
EG-313
R. S. F. O.

E-313
G4-114
R. S. F. O.
EXIT 313
87
87
Dutton
Choteau

IS21-3
R. S. F. O.
NEXT RIGHT

D10-6
Replace
M3-4

(2) R4-14
REPLACE
AUTHORIZED VEHICLES ONLY
AUTHORIZED VEHICLES ONLY

3 1	MONTANA Department of Transportation	C:\DGN\10237000sipln001.dgn 2/12/2024 6:44:13 AM CPS - U404	Designer: Checker: Reviewed:	Roger Schroeder Nathan Styren ***	03/2023 03/2023 ***	SIGNING PLANS TETON COUNTY	Dutton - N&S (SB) UPN #10237000	IM 15-6(48)309 S6

AWARD COPY



2	MONTANA Department of Transportation	C:\DGN\10237000sipln001.dgn	Designer:	Roger Schroeder	03/2023	SIGNING PLANS	Dutton - N&S (SB)	IM 15-6(48)309
1		2/12/2024	Checker:	Nathan Styren	03/2023			
		6:27:42 AM CPS - U404	Reviewed:	***	***	TETON COUNTY	UPN #10237000	S7

AWARD COPY

D10-6
Replace
MILE 317

D10-6
Replace
MILE 318

(2) R4-14
REPLACE
AUTHORIZED VEHICLES ONLY
AUTHORIZED VEHICLES ONLY

NEW
Windsock
W8-21
318.15
GUSTY WINDS AREA

R99-28
REPLACE
REST AREA SERVICES NEXT RIGHT

W11-3
W7-3a
R.P. 318.45
MILE 318

N.B.
N.B.

D10-6
Replace
MILE 319

R5-1a
I5-5
R. S. F. O.
AHEAD
REST AREA

3	MONTANA Department of Transportation	C:\DGN\10237000sipln002.dgn	Designer:	Roger Schroeder	03/2023	SIGNING PLANS	Dutton - N&S (SB)	IM 15-6(48)309
2		2/12/2024	Checker:	Nathan Styren	03/2023			
		6:30:36 AM CPS - U404	Reviewed:	***	***	TETON COUNTY	UPN #10237000	S8

AWARD COPY

D10-6
Replace
I 3 9
EXIT
AHEAD
REST AREA

R5-1a
IS-5
R. S. F. O.

IS-4
D9-1
D9-6
R. S. F. O.
REST AREA
NEXT RIGHT

(2) R4-14
REPLACE
AUTHORIZED VEHICLES ONLY

W11-3
W7-3a
R.P. 318.75

N.B.
N.B.

G11-343
R. S. F. O.
Dutton 7
Vaughn Jct 30
Great Falls 39

D10-6
Replace
I 3 9
EXIT
AHEAD

(2)R4-14
REPLACE
AUTHORIZED VEHICLES ONLY

R2-1(75)
R2-2A
R. S. F. O.
SPEED LIMIT 75
TRUCKS 65

3 / 1	MONTANA Department of Transportation	C:\DGN\10237000sipln002.dgn	Designer:	Roger Schroeder	03/2023	SIGNING PLANS	Dutton - N&S (SB) / IM 15-6(48)309
		2/12/2024	Checker:	Nathan Styren	03/2023		
		6:45:26 AM CPS - U404	Reviewed:	***	***	TETON COUNTY	UPN #10237000 / S9

AWARD COPY



2 1	MONTANA Department of Transportation	C:\DGN\10237000sipln002.dgn 2/12/2024 6:35:31 AM CPS - U404	Designer: Checker: Reviewed:	Roger Schroeder Nathan Styren ***	03/2023 03/2023 ***	SIGNING PLANS TETON COUNTY	Dutton - N&S (SB) UPN #10237000	IM 15-6(48)309 S10