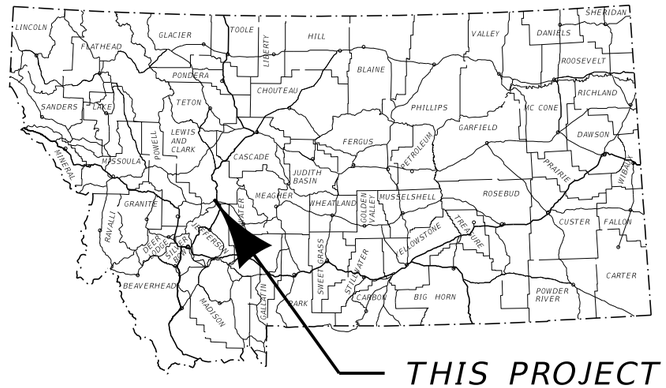
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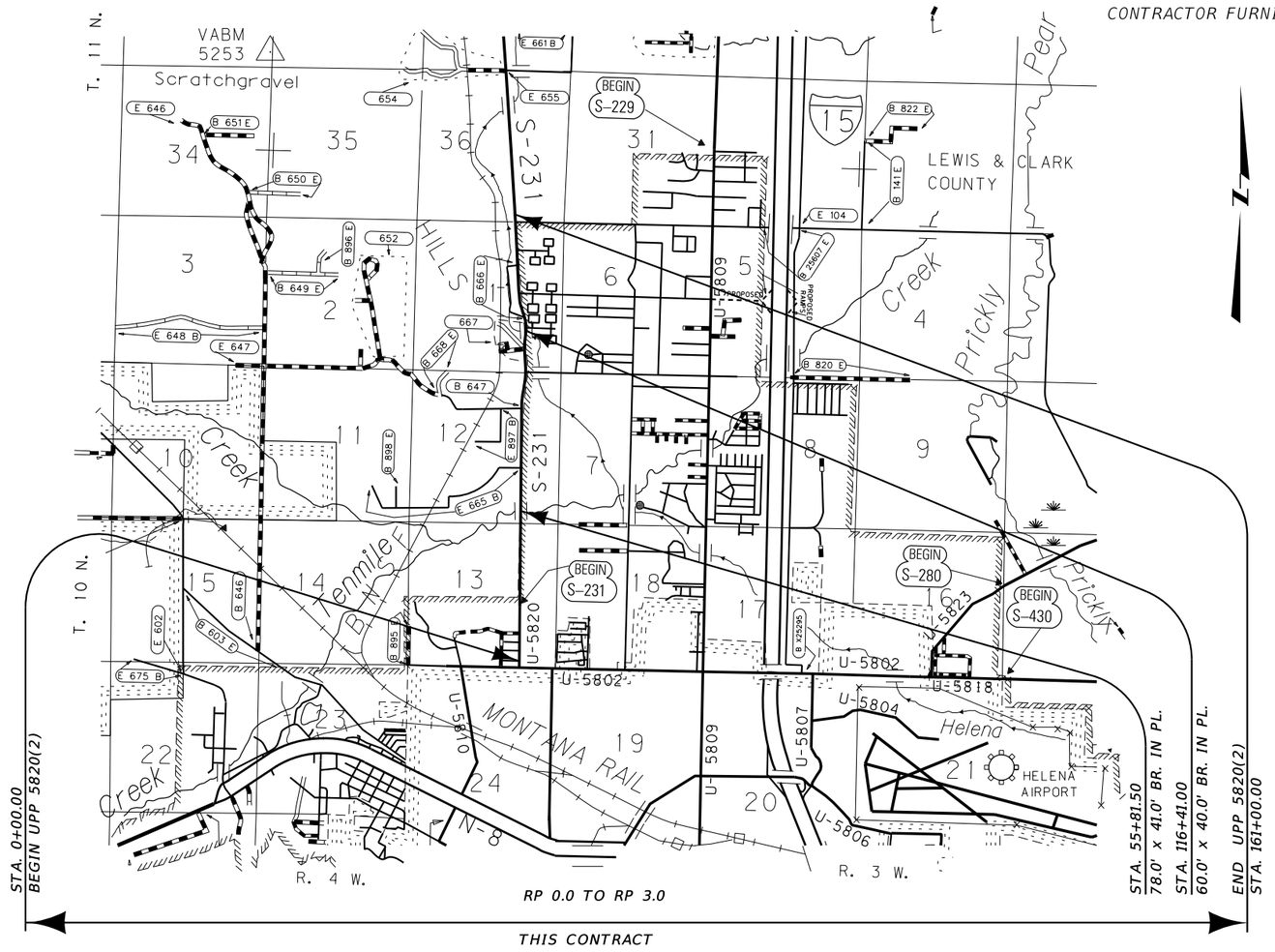
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT UPP 5820(2)
MILL & FILL, SEAL & COVER, BRIDGE DECK REPAIR, GUARDRAIL, SIGNING, AND STRIPING
GREEN MEADOW DRIVE - HELENA
LEWIS AND CLARK COUNTY

LENGTH 3.0 MILES

PROJECT DESIGN DATA		
PRESENT 2019	A.D.T. =	4,670
LETTING 2021	A.D.T. =	4,760
DESIGN 2041	A.D.T. =	5,810
	D.H.V. =	610
	TRUCKS =	2.9%
	V. =	45 mph / 55 mph
	18 KIP ESAL'S =	35
	GROWTH RATE =	1.0%

SURFACING SOURCES - CONTRACTOR FURNISHED



3	MONTANA Department of Transportation	C:\DGN\9754000rdtl001.dgn	DESIGNED BY	R. KUNDA	3/16/2022	ROAD PLANS
2		7/7/2022	REVIEWED BY			UPN 9754000
		11:12:27 AM CPS - U1716	CHECKED BY	JERRY SABOL	5/27/2022	

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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 - 1/2" AGG.	= 5.8% 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)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

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 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 IMPACT AREAS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR.

AS-BUILTS

RS 231-1(3)0 (1991)

LINEAR DATA

LENGTH OF ROADWAY	IN LEWIS & CLARK COUNTY	2 LANE RURAL	15,962.00 ft
LENGTH OF BRIDGE	IN LEWIS & CLARK COUNTY	2 LANE RURAL	138.00 ft
TOTAL LENGTH OF	UPP 5820 (2)	2 LANE RURAL	16,100.00 ft

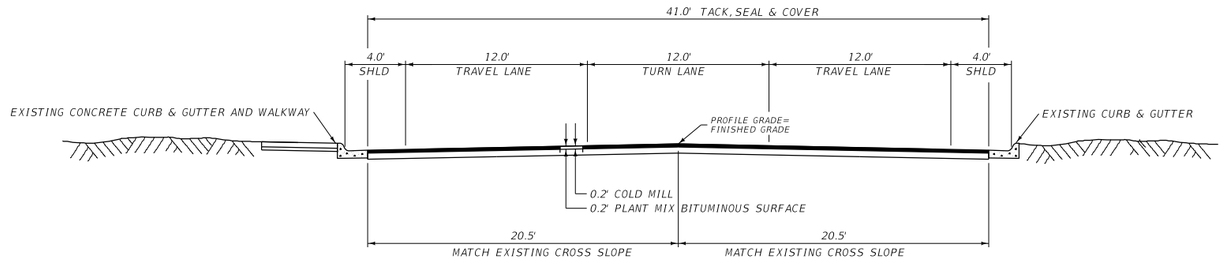
AWARD COPY

TYPICAL SECTION NO. 1

MAINLINE

0+43.41 TO 3+15.00 TYP. NO. 1 THEN TO TYP. NO. 2

℄



QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		8.20	square yards PER STATION		456	456	
cubic yards PER STATION		30.4	tons PER STATION	3.40	0.81		
tons PER STATION		58.6	gals. PER STATION			23	
square yards PER STATION	456						

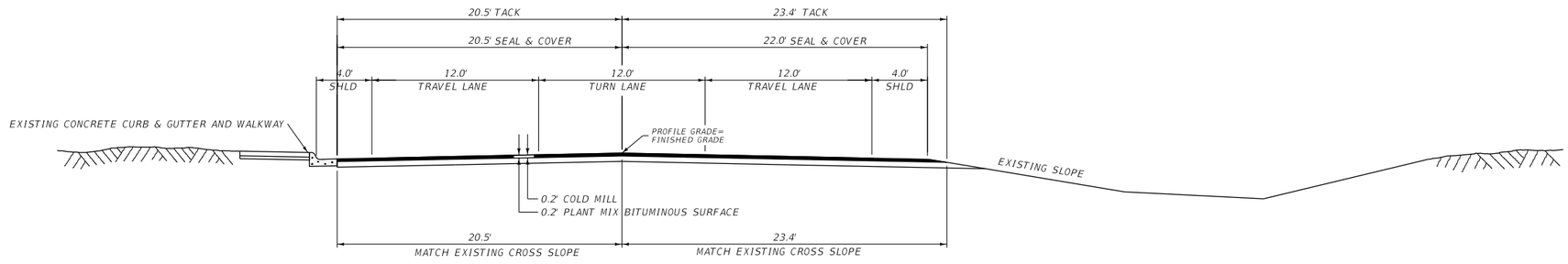
*BASED ON 1 APPLICATION

TYPICAL SECTION NO. 2

MAINLINE

3+15.00 TO 6+17.00 TRANS. TYP. NO 2 TO TYP. NO. 3

℄



QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		8.64	square yards PER STATION		472	488	
cubic yards PER STATION		32.0	tons PER STATION	3.58	0.84		
tons PER STATION		61.7	gals. PER STATION			24	
square yards PER STATION	472						

*BASED ON 1 APPLICATION

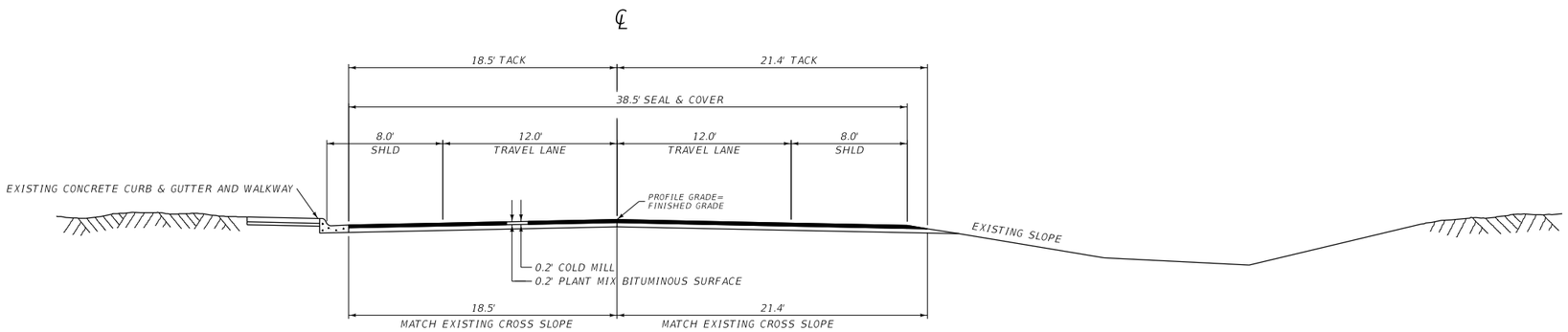
3	MONTANA Department of Transportation	C:\DGN\9754000rdtyp001.dgn	DESIGNED BY	R. KUNDA	3/16/2022	ROAD PLANS	GREEN MEADOW DRIVE - HELENA / UPP 5820(2)
2		7/7/2022	REVIEWED BY				
		11:12:44 AM CPS - U1716	CHECKED BY	JERRY SABOL	5/27/2022	LEWIS AND CLARK COUNTY	UPN 9754000 / 3

AWARD COPY

TYPICAL SECTION NO. 3

MAINLINE

6+17.00 TO 14+95.00 TYP. NO. 3 THEN TO TYP. NO. 4



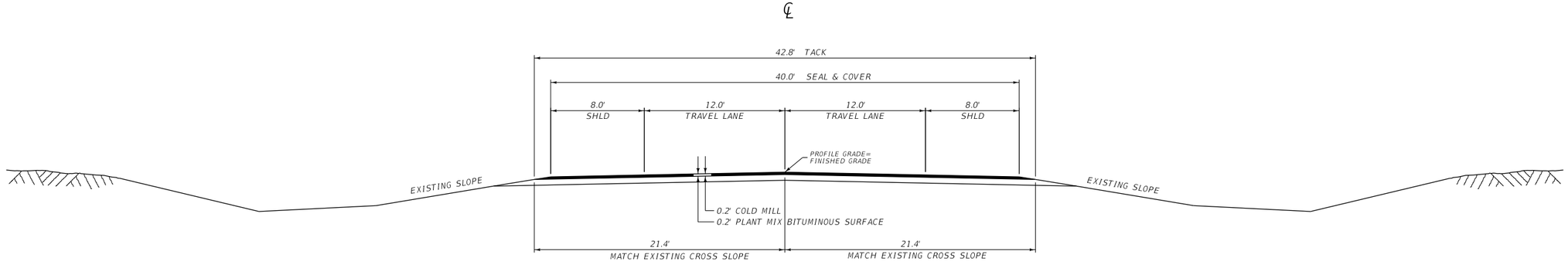
QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		7.84	square yards PER STATION		436	443	
cubic yards PER STATION		29.0	tons PER STATION	3.24	0.78		
tons PER STATION		55.9	gals. PER STATION			22	
square yards PER STATION	436						

*BASED ON 1 APPLICATION

TYPICAL SECTION NO. 4

MAINLINE

14+95.00 TO 55+42.50 BE TYP. NO. 4
56+20.50 BE TO 116+11.00 BE TYP. NO. 4
116+71.00 BE TO 161+00.00 TYP. NO. 4



QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		8.28	square yards PER STATION		444	476	
cubic yards PER STATION		30.7	tons PER STATION	3.43	0.79		
tons PER STATION		59.2	gals. PER STATION			24	
square yards PER STATION	444						

*BASED ON 1 APPLICATION

3 / 1	MONTANA Department of Transportation	C:\DGN\9754000rdtyp001.dgn	DESIGNED BY R. KUNDA	3/16/2022	ROAD PLANS	GREEN MEADOW DRIVE - HELENA	UPP 5820(2)
		7/7/2022	REVIEWED BY				
		11:12:50 AM CPS - U1716	CHECKED BY JERRY SABOL	5/27/2022	LEWIS AND CLARK COUNTY	UPN 9754000	4

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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 1	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 1/2"	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	REMARKS
0+00.00	0+43.41	43.41	43.41					279	36	2.1	0.5	14	MEASURED IN CAD (SEE DETAIL)
0+43.41	3+15.00	271.59	271.59					1,238	159	9.2	2.2	62	TYP. NO. 1
3+15.00	6+17.00	302.00	302.00					1,371	178	10.3	2.4	69	TRANSITION TYP. NO 2 TO TYP. NO. 3
6+17.00	14+95.00	878.00	878.00					3,828	491	28.4	6.8	193	TYP. NO. 3
14+95.00													
55+42.50	56+20.50				78.00	BRIDGE							
116+11.00	116+71.00				60.00	BRIDGE							
	161+00.00	14,605.00	14,467.00					64,233	8,564	496.2	114.3	3,472	TYP. NO. 4
						ADDITIONAL SURFACING		309	40	2.3	0.6	15	
TOTAL		16,100.00	15,962.00	~	138.00		133	71,258	9,468	548.5	126.8	3,825	

ADDITIONAL SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 1/2"	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	REMARKS
34+72.29	38+07.89	335.60	335.60			FLAGSTONE AVE. TURN LANE		309	40	2.3	0.6	15	MEASURED IN CAD (SEE DETAIL)
TOTAL		~	~	~	~		~	309	40	2.3	0.6	15	

COLD MILLING

STATION FROM	STATION TO	sq. yards COLD MILLING	REMARKS
0+00.00	0+43.41	279	CUSTER/GREEN MEADOW INTERSECTION (SEE DETAIL)
0+43.41	3+15.00	1,237	
3+15.00	6+17.00	1,473	
6+17.00	14+95.00	3,892	
14+95.00	55+42.50 BE	19,248	
34+72.29	38+07.89	309	FLAGSTAFF TURN LANE (SEE DETAIL)
56+20.50 BE	116+11.00 BE	28,488	
116+71.00 BE	161+00.00	21,062	
TOTAL		75,988	

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	214		214
STRIPING - YELLOW PAINT	gallon	162		162
WORDS & SYMBOLS - WHITE PAINT	gallon	8		8
STRIPING - WHITE EPOXY	gallon		142	142
STRIPING - YELLOW EPOXY	gallon		107	107
WORDS & SYMBOLS - WHITE EPOXY	gallon		5	5
CURB - YELLOW EPOXY	gallon		19	19
TEMPORARY STRIPING	linear feet			31,680
FINAL SWEEP AND BROOM	course mile			3.0

BASED ON 2 APPLICATIONS.

SUMMARY

GUARDRAIL

STATION		linear feet						each								REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL / LONG POST		MGS INTERSECTING ROADWAY TERMINAL SECTION		BRIDGE APPROACH SECTION TYPE 2		GUARDRAIL END SECTION WIDENING		MASH W-BEAM TERMINAL SECTION		OPTIONAL TERMINAL SECTION		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
NEW RAIL																
53+26.03	55+51.50				153.6 #				1		1		1			
54+23.50	55+11.50			28.1 #				1		1		1				
56+17.00	57+70.13			103.1 #		62.5		1								RADIUS=24'
56+51.00	57+39.00				28.1 #				1		1		1			
113+46.53	115+72.00				153.6 #				1		1		1			
115+88.00	116+13.00					50.0		1								RADIUS=16'
116+45.50	117+17.38								1		1				1	LONG POST
116+86.50	117+58.38							1		1				1		LONG POST
REMOVE RAIL																
53+23.00	57+27.00		300.0													
54+42.00	57+64.00	237.5														
113+47.00	117+21.00		300.0													
115+69.00	117+50.50	137.5														
SUBTOTAL		375.0	600.0	131.2	335.3	112.5	~	4	4	2	4	1	3	1	1	
TOTAL		975.0		466.5		112.5		8		6		4		2		

INCLUDES MGS TO METAL GUARDRAIL TRANSITION

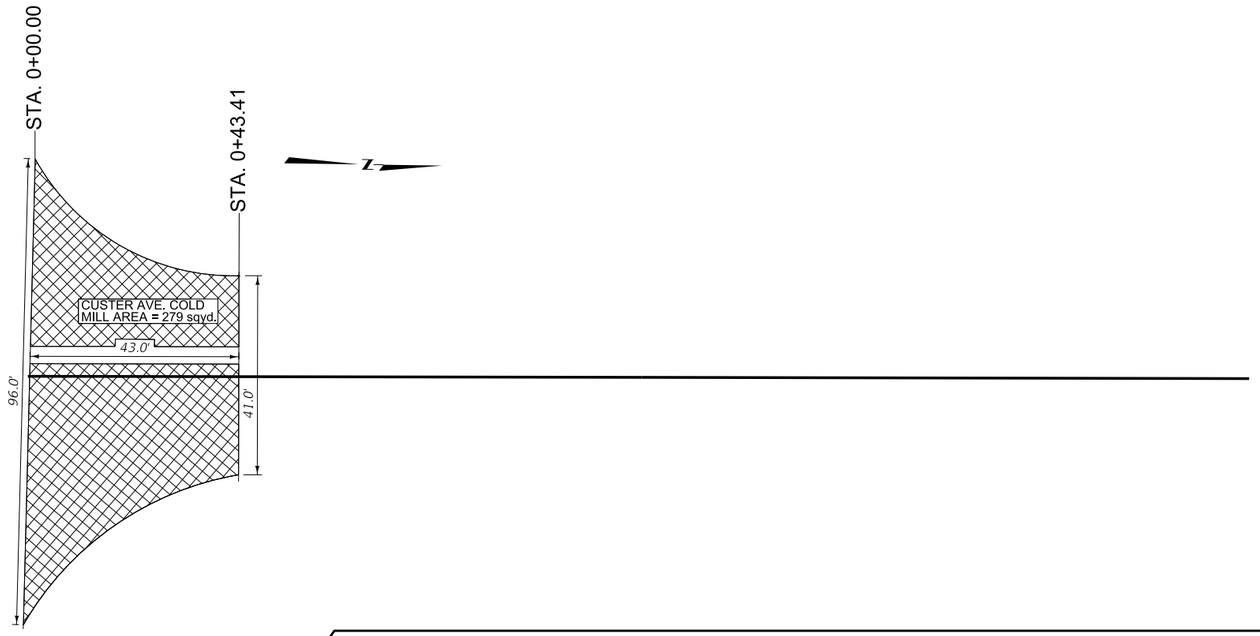
0.0
0.0
0.0
0.0

BRIDGE ITEMS

STATION		square yards				REMARKS
		CLASS A BRIDGE DECK REPAIR	PREPARE DECK	POLYMER OVERLAY	POLYMER OVERLAY PRIMER	
FROM	TO					
55+42.50	56+20.50	2.0	380.3	380.3	380.3	
116+11.00	116+71.00	2.0	287.2	287.2	287.2	
TOTAL		4.0	667.5	667.5	667.5	

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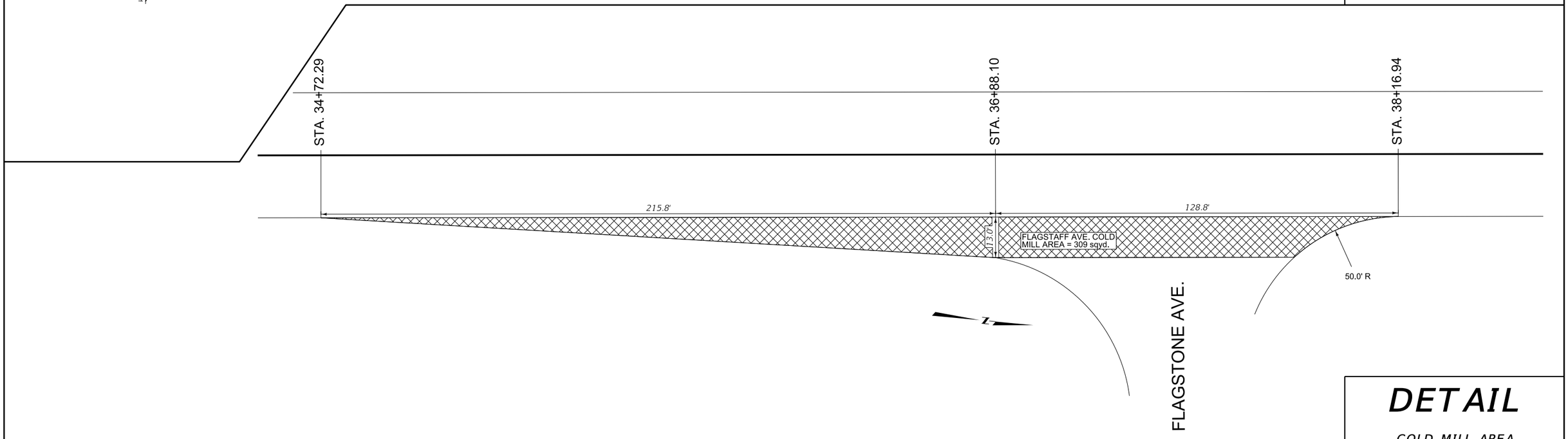
DETAIL



DETAIL

COLD MILL AREA
CUSTER AVE.

NO SCALE



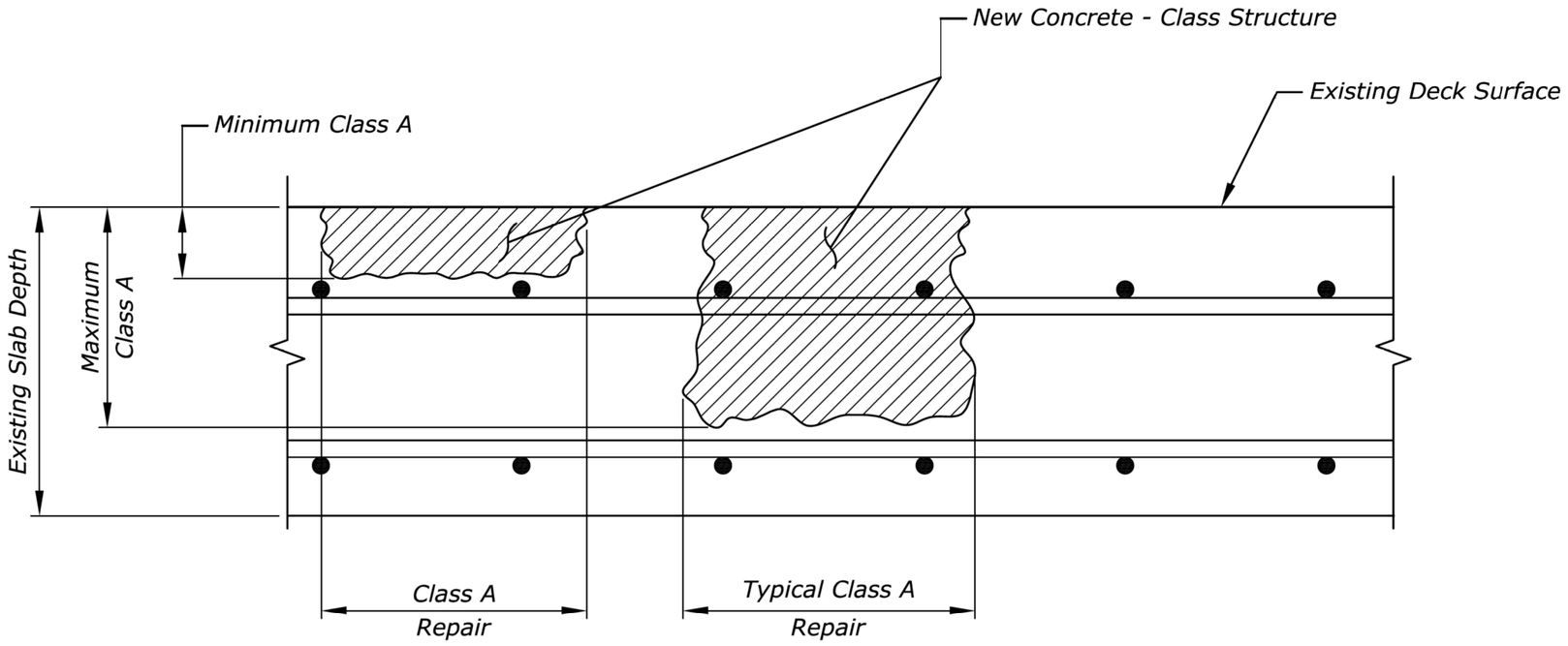
DETAIL

COLD MILL AREA
FLAGSTONE AVE.

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9754000rddet001.dgn	DESIGNED BY R. KUNDA	3/16/2022	ROAD PLANS	GREEN MEADOW DRIVE - HELENA	UPP 5820(2)
2		7/7/2022	REVIEWED BY				
		11:13:27 AM CPS - U1716	CHECKED BY JERRY SABOL	5/27/2022	LEWIS AND CLARK COUNTY	UPN 9754000	7

DETAIL



BRIDGE DECK REPAIR DEFINITION

No Scale

DETAIL

PREVENTATIVE DECK SEAL TREATMENT &
CLASS A - BRIDGE DECK REPAIR

NO SCALE

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV	165.6	SQ. FOOT
SIGNS-ALUM REFL SHEET XI	265.7	SQ. FOOT
SIGNS-ALUM SHEET INCR IV		SQ. FOOT
SIGNS-ALUM SHEET INCR XI		SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL U SIGN	66	POUNDS
POLES-TREATED WOOD 4 IN	604	LINEAR FT.
POLES-TREATED WOOD 5 IN		LINEAR FT.
POLES-TREATED TIMBER-CLASS 4		LINEAR FT.
POLES-TREATED TIMBER-CLASS 3		LINEAR FT.
POSTS-TUBULAR STEEL		POUNDS
POSTS-TUBULAR STEEL-SQ-PERF		POUNDS
POSTS-STEEL STRUCTURAL SIGN		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 DES A	135	EACH
DELINEATOR DES B		EACH
DELINEATOR DES C		EACH
DELINEATOR DES D	63	EACH
DELINEATOR DES E		EACH
DELINEATOR DES F		EACH
DELINEATOR DES G		EACH
DELINEATOR DES H		EACH
REMOVE SIGNS	50	EACH
REMOVE SIGNS-GUIDE		EACH
RESET SIGNS		EACH
RESET SIGNS-GUIDE		EACH
FRANG SIGN POST BKWY-		EACH
FRANG SIGN POST BKWY-		EACH
SQ TUBLR SLIP BASE BKWY-3 IN		EACH

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SIGN LOCATION AND SPECIFICATIONS

APPROXIMATE REF. POST		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.	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
0.066 LT		D-3	36 x 10	IV	IV	6-0		4" DIA POLE		13-4		6-0	3-0	2.5(IV)			14						1					REPLACE (2) D-3 DUNBAR 100 AVE
		D-3	36 x 10	IV	IV									2.5(IV)														
		D-3	42 x 10	IV	IV									2.9(IV)														(2) D-3 GREENMEADOW DR
		D-3	42 x 10	IV	IV									2.9(IV)														
		R1-1	30 x 30	XI	XI									5.2(XI)														R1-1 STOP
		-	-	-	-									-														
0.086 RT		R2-1	24 x 30	XI	-	10-0		4" DIA POLE		12-4		5-0	3-0	5.0(XI)			14						1					REPLACE R2-1 SPEED LIMIT 45
0.131 LT		D-3	36 x 10	IV	IV									2.5(IV)														
		D-3	36 x 10	IV	IV	6-0		4" DIA POLE		13-4		6-0	3-0	2.5(IV)			14						1					REPLACE (2) D-3 WILLOW 100 AVE
		D-3	42 x 10	IV	IV									2.9(IV)														
		D-3	42 x 10	IV	IV									2.9(IV)														(2) D-3 GREENMEADOW DR
		R1-1	30 x 30	XI	XI									5.2(XI)														
		-	-	-	-									-														R1-1 STOP
0.197 LT		D-3	30 x 10	IV	IV									2.1(IV)														
		D-3	30 x 10	IV	IV	6-0		4" DIA POLE		13-4		6-0	3-0	2.1(IV)			14						1					REPLACE (2) D-3 REED 100 AVE
		D-3	42 x 10	IV	IV									2.9(IV)														
		D-3	42 x 10	IV	IV									2.9(IV)														(2) D-3 GREENMEADOW DR
		R1-1	30 x 30	XI	XI									5.2(XI)														
		-	-	-	-									-														R1-1 STOP
0.205 RT		D-3	36 x 10	IV	IV									2.5(IV)														
		D-3	36 x 10	IV	IV	6-0		4" DIA POLE		12-10		6-0	3-0	2.5(IV)			14						1					REPLACE (2) D-3 BARNEY ST
		R1-1	30 x 30	XI	XI									5.2(XI)														
		-	-	-	-									-														R1-1 STOP
0.261 LT		D-3	36 x 10	IV	IV									2.5(IV)														
		D-3	36 x 10	IV	IV	6-0		4" DIA POLE		13-4		6-0	3-0	2.5(IV)			14						1					REPLACE (2) D-3 SILSBEE 100 AVE
		D-3	42 x 10	IV	IV									2.9(IV)														
		D-3	42 x 10	IV	IV									2.9(IV)														(2) D-3 GREENMEADOW DR
		R1-1	30 x 30	XI	XI									5.2(XI)														
		-	-	-	-									-														R1-1 STOP
0.270 RT		W11-3	30 x 30	XI	-	10-0		4" DIA POLE		13-6		5-0	3-0	6.3(XI)			14						1					REPLACE W11-3
0.347 RT		D-3	42 x 10	IV	IV									2.9(IV)														
		D-3	42 x 10	IV	IV	6-0		4" DIA POLE		13-4		6-0	3-0	2.9(IV)			14						1					REPLACE (2) D-3 BROOKFIELD 200 DR
		D-3	42 x 10	IV	IV									2.9(IV)														
		D-3	42 x 10	IV	IV									2.9(IV)														(2) D-3 GREENMEADOW DR
		R1-1	30 x 30	XI	XI									5.2(XI)														
		-	-	-	-									-														R1-1 STOP
0.408 LT		R2-1	24 x 30	XI	-	10-0		4" DIA POLE		12-4		5-0	3-0	5.0(XI)			14						1					REPLACE R2-1 SPEED LIMIT 45
0.408 RT		R2-1	24 x 30	XI	-	10-0		4" DIA POLE		12-4		5-0	3-0	5.0(XI)			14						1					REPLACE R2-1 SPEED LIMIT 55
0.473 LT		W3-5	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0(XI)			16						1					REPLACE W3-5
0.534 LT		D-3	36 x 18	IV	IV									4.5(IV)														
		D-3	36 x 18	IV	IV	6-0		4" DIA POLE		12-1		5-0	3-0	4.5(IV)			14						1					REPLACE (2) D-3 HORSESHOE BEND RD
		R1-1	30 x 30	XI	XI									5.2(XI)														
		-	-	-	-									-														R1-1 STOP
0.670 LT		W14-3	48 x 48 x 36	XI	-	10-0		4" DIA POLE		13-0		5-0	3-0	5.5(XI)			14						1				FY BBR	REPLACE W14-3 NO PASSING ZONE
0.735 RT		D-3	42 x 10	IV	IV									2.9(IV)														
		D-3	42 x 10	IV	IV	6-0		4" DIA POLE		13-4		6-0	3-0	2.9(IV)			14						1					REPLACE (2) D-3 FLAGSTONE AVE
		D-3	42 x 10	IV	IV									2.9(IV)														
		D-3	42 x 10	IV	IV									2.9(IV)														(2) D-3 GREENMEADOW DR
		R1-1	30 x 30	XI	XI									5.2(XI)														
		-	-	-	-									-														R1-1 STOP
0.767 RT		W14-3	48 x 48 x 36	XI	-	10-0		4" DIA POLE		13-0		5-0	3-0	5.5(XI)			14						1				FY BBR	REPLACE W14-3 NO PASSING ZONE
0.978 RT		W14-3pL	36 x 8	XI	-									2.0(XI)														
		W14-3pR	36 x 8	XI	-	6-0		4" DIA POLE		12-1		5-0	3-0	2.0(XI)			14						1					REPLACE W14-1pL DEAD END / W14-1pR DEAD END
		D-3	30 x 10	IV	IV									2.1(IV)														
		D-3	30 x 10	IV	IV									2.1(IV)														(2) D-3 OHANA CT
		R1-1	30 x 30	XI	XI									5.2(XI)														
		-	-	-	-									-														R1-1 STOP

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9754000sisum001.dgn	DESIGNED BY	HAYWARD	11/2020	SIGNING PLANS
2		1/28/2021	REVIEWED BY			LEWIS & CLARK COUNTY
1		1:25:21 PM CPS - U9009	CHECKED BY			

GREENMEADOW DRIVE - HELENA		UPP 5820 (1)
	UPN 9754000	S2

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

APPROXIMATE REF. POST		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.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAK AWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
1.000 RT		D10-1 D10-1	10 x 18 10 x 18	IV IV	IV IV	4-0		2 LBS STL U		10-3		4-0	3-0	1.3(IV) 1.3(IV)								22		1					REPLACE (2) D10-1 MILE 1
1.015 RT		OM-3R	REMOVE																					1				BGR	REMOVE OM-3R
1.055 LT		OM-3L	REMOVE																					1				BGR	REMOVE OM-3L
1.060 RT		N6-2	36 x 18	IV	IV	4-0		4" DIA POLE		9-6		5-0	3-0	4.5(IV)			10							1				BGR	REPLACE N6-2 TEN MILE CREEK
1.060 RT		OM-3R	REMOVE																					1				BGR	REMOVE OM-3R
1.071 LT		N6-2	36 x 18	IV	IV	4-0		4" DIA POLE		9-6		5-0	3-0	4.5(IV)			10							1				BGR	REPLACE N6-2 TEN MILE CREEK
1.071 LT		OM-3R	REMOVE																					1				BGR	REMOVE OM-3R
1.076 RT		POST	REMOVE																					1				BGR	REMOVE EXISTING POST OM-3 ?
1.261 LT		W14-3	48 x 48 x 36	XI	-	10-0		4" DIA POLE		13-0		5-0	3-0	5.5(XI)			14							1				FY BBR	REPLACE W14-3 NO PASSING ZONE
1.357 LT		D-3 D-3	36 x 10 36 x 10	IV IV	IV IV	6-0		4" DIA POLE		11-5		5-0	3-0	2.5(IV) 2.5(IV)			12							1					REPLACE (2) D-3 ALFALFA RD
		R1-1 -	30 x 30 -	XI -	XI -									5.2(XI) -															R1-1 STOP
1.479 RT		W14-3	48 x 48 x 36	XI	-	10-0		4" DIA POLE		13-0		5-0	3-0	5.5(XI)			14							1				FY BBR	REPLACE W14-3 NO PASSING ZONE
1.514 RT		W11-3	30 x 30	XI	-	10-0		4" DIA POLE		13-6		5-0	3-0	6.3(XI)			14							1					REPLACE W11-3
1.634 LT		W14-3	48 x 48 x 36	XI	-	10-0		4" DIA POLE		13-0		5-0	3-0	5.5(XI)			14							1				FY BBR	REPLACE W14-3 NO PASSING ZONE
1.730 RT		W2-4L	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0(XI)			16							1					REPLACE W2-4L
1.770 LT		D-3 D-3	30 x 18 30 x 18	IV IV	IV IV	6-0		4" DIA POLE		12-1		5-0	3-0	3.8(IV) 3.8(IV)			14							1					REPLACE (2) D-3 FRANKLIN MINE RD
		R1-1 -	30 x 30 -	XI -	XI -									5.2(XI) -															R1-1 STOP
1.811 LT		W2-4R	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0(XI)			14							1					REPLACE W2-4R
1.947 LT		W11-3	30 x 30	XI	-	10-0		4" DIA POLE		13-6		5-0	3-0	6.3(XI)			14							1					REPLACE W11-3
1.960 RT		W2-4R	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0(XI)			16							1					REPLACE W2-4R
		W16-8 -	18 x 8 -	XI -	- -									1.0(XI) -															W16-8 HILL RD
1.987 LT		R2-1	24 x 30	XI	-	10-0		4" DIA POLE		12-4		5-0	3-0	5.0(XI)			14							1					REPLACE R2-1 SPEED LIMIT 55
2.000 RT		D10-1 D10-1	10 x 18 10 x 18	IV IV	IV IV	4-0		2 LBS STL U		10-3		4-0	3-0	1.3(IV) 1.3(IV)								22		1					REPLACE (2) D10-1 MILE 2
2.023 RT		D-3 D-3	30 x 10 30 x 10	IV IV	IV IV	6-0		4" DIA POLE		12-4		5-0	3-0	2.1(IV) 2.1(IV)			14							1					REPLACE (2) D-3 HILL RD
		D-3 D-3	42 x 10 42 x 10	IV IV	IV IV									2.9(IV) 2.9(IV)															(2) D-3 GREENMEADOW DR
		R1-1 -	30 x 30 -	XI -	XI -									5.2(XI) -															R1-1 STOP
2.085 LT		W2-4L	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0(XI)			16							1					REPLACE W2-4L
		W16-8 -	18 x 8 -	XI -	- -									1.0(XI) -															W16-8 HILL RD
2.132 RT		R2-1	24 x 30	XI	-	10-0		4" DIA POLE		12-4		5-0	3-0	5.0(XI)			14							1					REPLACE R2-1 SPEED LIMIT 55
2.189 LT		D-3 D-3	30 x 10 30 x 10	IV IV	IV IV	6-0		4" DIA POLE		11-5		5-0	3-0	2.1(IV) 2.1(IV)			12							1					REPLACE (2) D-3 HILL DR
		R1-1 -	30 x 30 -	XI -	XI -									5.2(XI) -															R1-1 STOP

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9754000sisum001.dgn	DESIGNED BY	HAYWARD	11/2020	SIGNING PLANS
2		1/28/2021	REVIEWED BY			LEWIS & CLARK COUNTY
1		1:25:24 PM CPS - U9009	CHECKED BY			

GREENMEADOW DRIVE - HELENA		UPP 5820 (1)
	UPN 9754000	S3

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

APPROXIMATE REF. POST		SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	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.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
2.280 RT		D-3 D-3	42 x 10 42 x 10	IV IV	IV IV	6-0		4" DIA POLE		11-5		5-0	3-0	2.9(IV) 2.9(IV)			12						1					REPLACE (2) D-3 SCRIBNER RD
		R1-1 -	30 x 30 -	XI -	XI -									5.2(XI) -														REPLACE R1-1 STOP
2.461 RT		W2-4R	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0(XI)			16						1					REPLACE W2-4R
		W16-8 -	30 x 8 -	XI -	- -									1.7(XI) -														W16-8 FORESTVALE PL
2.475 LT		D-3 D-3	42 x 10 42 x 10	IV IV	IV IV	6-0		4" DIA POLE		12-4		5-0	3-0	2.9(IV) 2.9(IV)			14						1					REPLACE (2) D-3 WAGONWHEEL DR
		R1-1 -	30 x 30 -	XI -	XI -									5.2(XI) -														REPLACE R1-1 STOP
2.533 RT		D-3 D-3	42 x 10 42 x 10	IV IV	IV IV	6-0		4" DIA POLE		12-4		5-0	3-0	2.9(IV) 2.9(IV)			14						1					REPLACE (2) D-3 FORESTVALE RD
		D-3 D-3	42 x 10 42 x 10	IV IV	IV IV									2.9(IV) 2.9(IV)														(2) D-3 GREENMEADOW DR
		R1-1 -	30 x 30 -	XI -	XI -									5.2(XI) -														R1-1 STOP
2.597 LT		W2-4L	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0(XI)			16						1					REPLACE W2-4L
		W16-8 -	30 x 8 -	XI -	- -									1.7(XI) -														W16-8 FORESTVALE PL
2.803 RT		D-3 D-3	36 x 10 36 x 10	IV IV	IV IV	6-0		4" DIA POLE		12-4		5-0	3-0	2.5(IV) 2.5(IV)			14						1					REPLACE (2) D-3 TEMPLE RD
		D-3 D-3	42 x 10 42 x 10	IV IV	IV IV									2.9(IV) 2.9(IV)														(2) D-3 GREENMEADOW DR
		R1-1 -	30 x 30 -	XI -	XI -									5.2(XI) -														R1-1 STOP
2.894 RT		W14-3pL W14-3pR	36 x 8 36 x 8	XI XI	- -	6-0		4" DIA POLE		12-2		5-0	3-0	2.0(XI) 2.0(XI)			14						1					REPLACE W14-1pL DEAD END W14-1pR DEAD END
		D-3 D-3	30 x 10 30 x 10	IV IV	IV IV									2.1(IV) 2.1(IV)														(2) D-3 KATY CT
		R1-1 -	30 x 30 -	XI -	XI -									5.2(XI) -														R1-1 STOP
2.964 RT		W3-1a	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0(XI)			16						1					REPLACE W3-1a
		W16-8 -	24 x 8 -	XI -	- -									1.3(XI) -														W16-8 SIERRA DR
2.965 LT		R2-1	24 x 30	XI	-	10-0		4" DIA POLE		12-4		5-0	3-0	5.0(XI)			14						1					REPLACE R2-1 SPEED LIMIT 55
2.997 RT		W5-1	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0(XI)			16						1					REPLACE W5-1 ROAD NARROWS
3.000 RT		D10-1 D10-1	10 x 18 10 x 18	IV IV	IV IV	4-0		2 LBS STL U		10-3		4-0	3-0	1.3(IV) 1.3(IV)								22		1				REPLACE (2) D10-1 MILE 3
TOTALS														165.6(IV) 265.7(XI)			604					66		50				

DELINEATION TABLE		
	DESIGN "A"	135
	DESIGN "B"	
	DESIGN "C"	
	DESIGN "D"	63
	DESIGN "E"	
	DESIGN "F"	
	DESIGN "G"	
	DESIGN "H"	
	DESIGN "J"	
	DESIGN "BJ"	
	DESIGN "GJ"	

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9754000sisum002.dgn	DESIGNED BY	HAYWARD	11/2020	SIGNING PLANS	GREENMEADOW DRIVE - HELENA / UPP 5820 (1)
2		1/28/2021	REVIEWED BY			LEWIS & CLARK COUNTY	UPN 9754000 / S4
1		1:25:34 PM CPS - U9009	CHECKED BY				