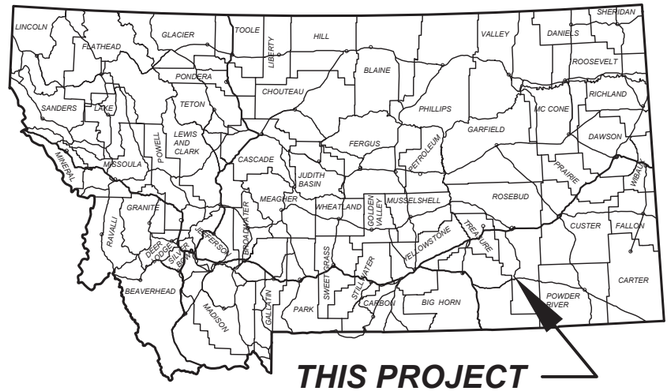
AWARD COPY



MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH-HSIP 37-2(46)42

PLANT MIX, OVERLAY, SEAL & COVER

LAME DEER - EAST

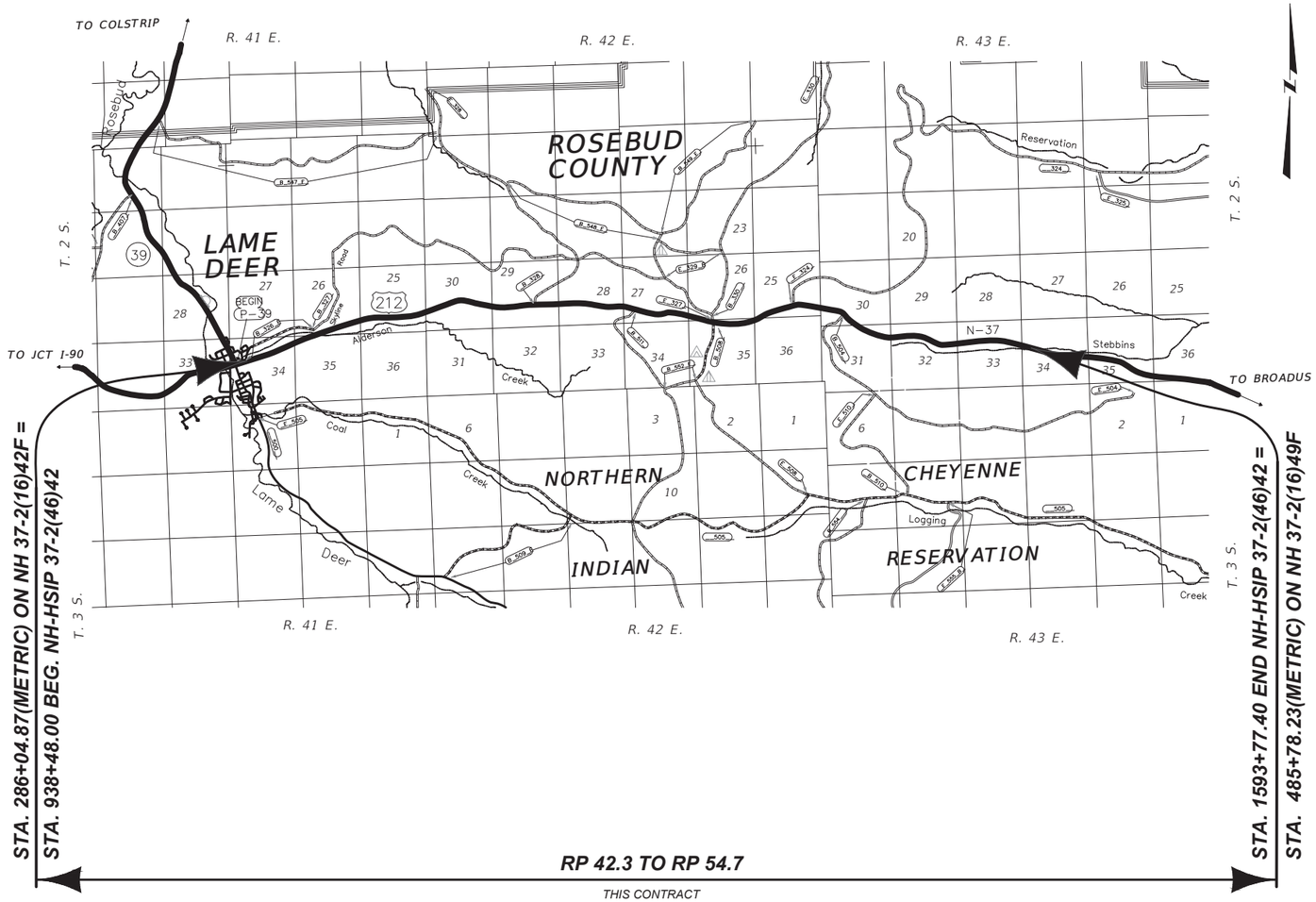
ROSEBUD COUNTY

SURFACING SOURCES-
CONTRACTOR FURNISHED

LENGTH 12.4 MILES

PROJECT DESIGN DATA

PRESENT	2021	A.D.T. =	2540
LETTING	2023	A.D.T. =	2670
DESIGN	2043	A.D.T. =	4280
		D.H.V. =	440
		TRUCKS =	22.4%
		V. =	60 M.P.H.
		18 KIP ESAL'S =	391
		GROWTH RATE =	2.4%



SHEET NO.
01

TITLE SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

CHECKED BY	J. FLEMING	5/15/23
REVIEWED BY		
DESIGNED BY	S. LUCIO	8/30/22

MONTANA
Department of Transportation

ROAD PLANS

4/24/2023 10:38 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.	= 5.1% 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 - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

CHAIN-UP AREAS

OVERLAY THE SIX EXISTING CHAIN-UP AREAS SHOWN IN THE PLANS.

PROVIDE THE FOLLOWING SURFACING:
0.22' PLANT MIX BITUMINOUS SURF.

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.

CLEAR INSLOPE

CLEAR EXISTING PAVING INSLOPE OF VEGETATION AND DEBRIS PRIOR TO PLACING THE NEW PAVEMENT. INCLUDE THE COST IN THE UNIT BID PRICE OF MOTOR GRADER HOURS.

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

MILLINGS

COLD MILLINGS WILL BE UTILIZED ON THE PROJECT OR DISPOSED OF BY THE CONTRACTOR. MILLINGS CAN BE UTILIZED FOR SHOULDER GRAVEL.

AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):
NH-HSIP 37-2(36)42 - (ENGLISH)
NH 37-2(16)42F - (METRIC)
NH 37-2(16)49F - (METRIC)

NOTE: METRIC PROJECTS WERE SOFT CONVERTED TO ENGLISH.

LEVELING

LEVELING AREAS TO BE DETERMINED BY THE ENGINEERING PROJECT MANAGER AND THE CONTRACTOR

LINEAR DATA

LENGTH OF ROADWAY	2 LANE RURAL	32,047.70 ft
LENGTH OF ROADWAY	3 LANE RURAL	33,481.70 ft
TOTAL LENGTH OF NH-HSIP 37-2(46)42	RURAL	65,529.40 ft

SHEET NO.
02

NOTE SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

CHECKED BY
REVIEWED BY
DESIGNED BY: S. LUCIO 09/01/22

9936000RDTTL001.DWG

MONTANA Department of Transportation

ROAD PLANS

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NOTES

APPROACHES (FOR INFORMATION ONLY)

STATION	TYPE	linear feet				EXISTING SURFACING	feet	PROPOSED SURFACE	tons			gallons	REMARKS
		WIDTH #	RADIUS #		SURFACING LENGTH		PMS THK.		PLANT MIX BIT. SURF. GR. S - 3/4"	PLANT MIX BIT. SURF. GR. S MISC	ASPHALT CEMENT PG 70-28	EMULSIFIED ASPHALT TACK	
			LEFT	RIGHT									
973+85		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP LT.
974+80		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1009+02		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1034+78		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1041+96		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1056+43		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP LT.
1063+81		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1095+28		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1113+19		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP LT.
1242+29		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1338+09		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1351+05		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1357+71		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP LT.
1380+84		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1380+84		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP LT.
1427+17		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP LT.
1439+14		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP RT.
1555+77		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP LT.
1579+07		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	FARM/FIELD APP LT.
SUBTOTAL	**FARM FIELD**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**114**	**5.7**	**57**	
942+09		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
945+01													PRIVATE APP RT. - USE IN PLACE
950+07		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT. - JOINT USE
954+04		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
954+36		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
959+94		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
960+60		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
962+27		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
964+57		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
989+27		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
998+92		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT. - JOINT USE
1038+88		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1041+70		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1047+61		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1059+68		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1059+74		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1063+81		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1070+01		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT. - JOINT USE
1076+67		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1086+15		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1086+94		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1095+34		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1136+25		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1139+76		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1154+20		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1158+63		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1174+38		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1183+37		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1209+32		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1499+34		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1517+72		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1519+36		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1527+07		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1527+07		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1530+74		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1534+88		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1550+75		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP LT.
1551+12		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
1583+04		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PRIVATE APP RT.
SUBTOTAL	**PRIVATE**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**228**	**11.4**	**114**	
936+35		36	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		8	0.4	3	PUBLIC APP LT.
1070+37		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PUBLIC APP LT.
1311+75		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PUBLIC APP RT.
1323+00		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PUBLIC APP LT.
1332+02		24	25	25	12.0	PMS	0.2	ASPHALT - 12.0' STRIP		6	0.3	3	PUBLIC APP LT.
SUBTOTAL	**PUBLIC**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**32.0**	**1.6**	**15**	

ALL RADII AND WIDTHS ARE BASED ON AS-BUILT DATA

SHEET NO.
03

NOTE SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

CHECKED BY				9/01/22
REVIEWED BY				S. LUCIO
DESIGNED BY				9936000RDTTL001.DWG

MONTANA
Department of Transportation

ROAD PLANS

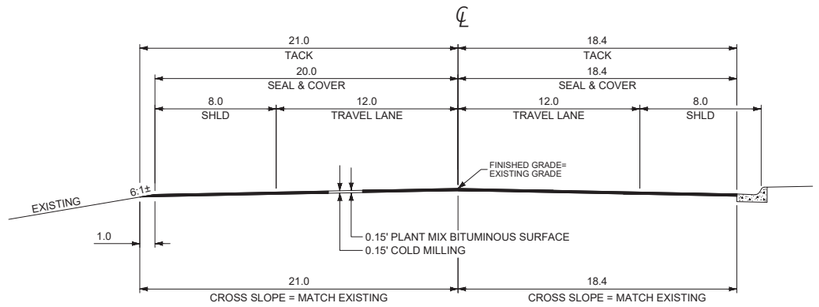
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938+48.00 TO 949+96.42 THEN TO TYP. NO. 2

TYPICAL SECTION NO. 1

MAINLINE



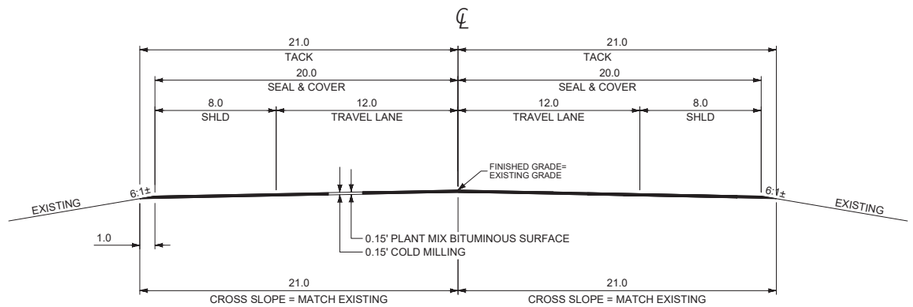
QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		5.84	square yards PER STATION		427	438
cubic yards PER STATION		21.6	tons PER STATION	2.12	0.76	
tons PER STATION		41.6	gals. PER STATION			22
square yards PER STATION	427					

*BASED ON 1 APPLICATION

949+96.42 ONLY
949+96.42 TO 951+96.42 TRANS. TO TYP. NO. 3

TYPICAL SECTION NO. 2

MAINLINE



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		6.15	square yards PER STATION		444	467
cubic yards PER STATION		22.8	tons PER STATION	2.24	0.79	
tons PER STATION		43.9	gals. PER STATION			23
square yards PER STATION	444					

*BASED ON 1 APPLICATION

SHEET NO. 04

TYPICAL SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

	DESIGNED BY	REVIEWED BY	CHECKED BY	
S. LUCIO				9/02/22

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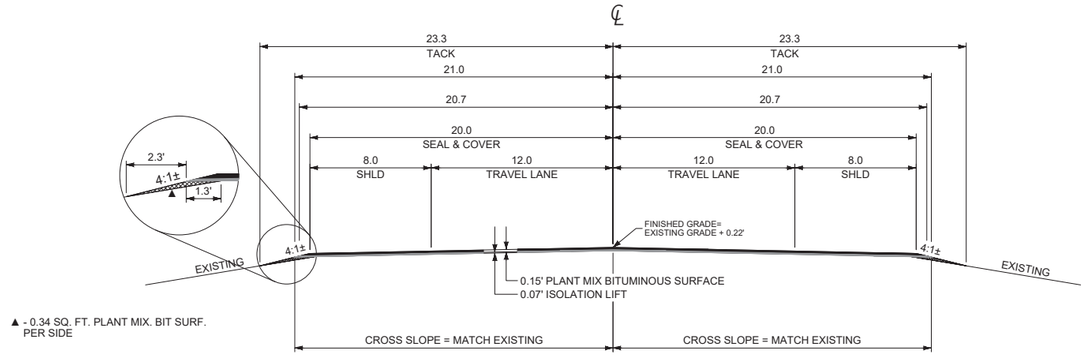
MONTANA Department of Transportation

ROAD PLANS

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TYPICAL SECTION NO. 3

MAINLINE



▲ - 0.34 SQ. FT. PLANT MIX. BIT SURF. PER SIDE

951+96.42	TO	1036+54.82	
1036+54.82	TO	1039+74.70	TRANS. TYP. 3 TO TYP. 4
1055+79.10	TO	1066+80.48	
1066+80.48	TO	1069+64.83	TRANS. TYP. 3 TO TYP. 4
1079+78.90	TO	1101+50.00	
1101+50.00	TO	1104+48.56	TRANS. TYP. 3 TO TYP. 4
1125+66.47	TO	1136+52.49	
1136+52.49	TO	1139+72.38	TRANS. TYP. 3 TO TYP. 4
1355+58.50	TO	1369+75.07	
1369+75.07	TO	1371+39.11	TRANS. TYP. 3 TO TYP. 7
1526+24.67	TO	1539+26.41	
1539+26.41	TO	1542+24.97	TRANS. TYP. 3 TO TYP. 4
1548+01.12	TO	1571+86.29	
1571+86.29	TO	1574+84.84	TRANS. TYP. 3 TO TYP. 4
1581+75.26	TO	1591+77.40	
1591+77.40	TO	1593+77.40	TRANS. TYP. 3 TO TYP. 11

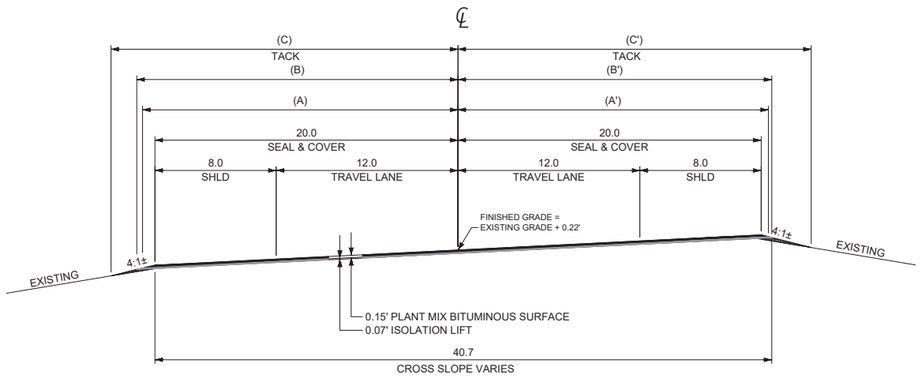
QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX	PLANT MIX ISO. LIFT		ASPHALT CEMENT	ASPHALT CEMENT ISO. LIFT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		6.11	3.60	square yards PER STATION			444	1036
cubic yards PER STATION		22.6	13.3	tons PER STATION	2.22	1.31	0.79	
tons PER STATION		43.6	25.6	gals. PER STATION				52
square yards PER STATION	444							

*BASED ON 2 APPLICATIONS

TYPICAL SECTION NO. 4

MAINLINE (REVERSE DIMENSIONS FOR CURVE RT)



FOR QUANTITIES SEE TYPICAL NO. 3

SUPER %	WIDTHS (ft)					
	A	B	C	A'	B'	C'
0.04	20.8	21.0	22.7	20.5	20.7	22.0
0.05	20.8	21.0	22.9	20.5	20.7	21.9
0.06	20.8	21.2	23.0	20.5	20.7	21.8

1039+74.70	TO	1052+59.22	4% RT.
1052+59.22	TO	1055+79.10	TRANS. TYP. 4 TO TYP. 3
1069+64.83	TO	1076+94.55	6% LT.
1076+94.55	TO	1079+78.90	TRANS. TYP. 4 TO TYP. 3
1104+48.56	TO	1122+67.91	5% RT.
1122+67.91	TO	1125+66.47	TRANS. TYP. 4 TO TYP. 3
1139+72.38	TO	1153+26.28	4% LT.
1153+26.28	TO	1156+46.16	TRANS. TYP. 4 TO TYP. 5
1335+81.99	TO	1352+59.65	6% LT.
1352+59.65	TO	1355+58.50	TRANS. TYP. 4 TO TYP. 3
1542+24.97	TO	1545+02.56	5% RT.
1545+02.56	TO	1548+01.12	TRANS. TYP. 4 TO TYP. 3
1574+84.84	TO	1579+75.16	5% RT.
1579+75.16	TO	1581+75.26	TRANS. TYP. 4 TO TYP. 3

SHEET NO. 05

TYPICAL SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

CHECKED BY		9/02/22
REVIEWED BY	S. LUCIO	
DESIGNED BY		9936000RDTYP001.DWG

MONTANA Department of Transportation

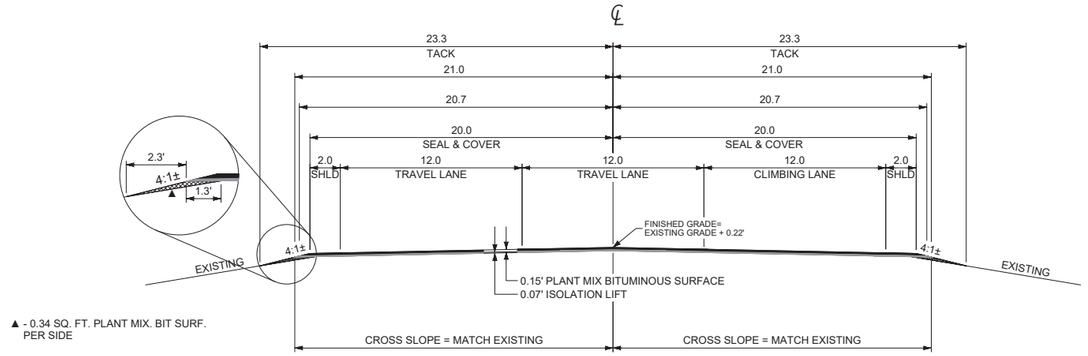
ROAD PLANS

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TYPICAL SECTION NO. 5

MAINLINE



▲ - 0.34 SQ. FT. PLANT MIX. BIT SURF. PER SIDE

1156+46.16	TO	1167+14.34	
1167+14.34	TO	1170+34.22	TRANS. TYP. 5 TO TYP. 6
1179+19.75	TO	1186+80.25	
1186+80.25	TO	1190+00.13	TRANS. TYP. 5 TO TYP. 6
1197+65.65	TO	1200+76.80	
1200+76.80	TO	1203+96.69	TRANS. TYP. 5 TO TYP. 6
1213+59.81	TO	1242+95.34	
1242+95.34	TO	1245+93.90	TRANS. TYP. 5 TO TYP. 6
1257+85.20	TO	1262+27.13	
1262+27.13	TO	1265+25.69	TRANS. TYP. 5 TO TYP. 6
1300+96.10	TO	1305+93.96	
1305+93.96	TO	1309+13.75	TRANS. TYP. 5 TO TYP. 6
1317+80.58	TO	1332+83.43	
1332+83.43	TO	1335+81.99	TRANS. TYP. 5 TO TYP. 4

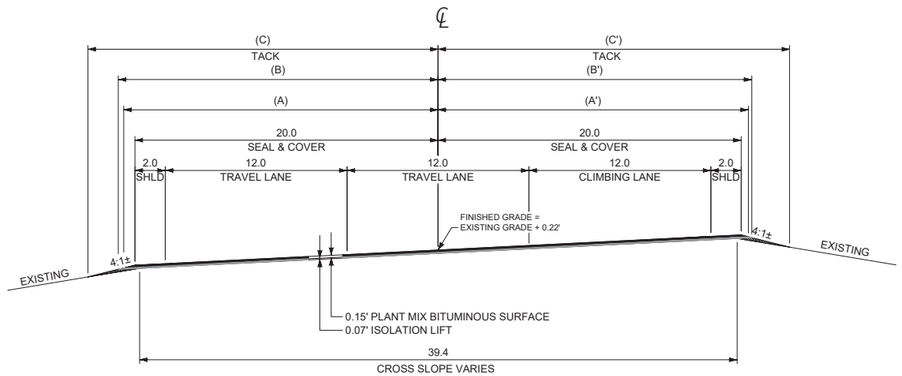
QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX	PLANT MIX ISO. LIFT		ASPHALT CEMENT	ASPHALT CEMENT ISO. LIFT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		6.11	3.60	square yards PER STATION			444	1036
cubic yards PER STATION		22.6	13.3	tons PER STATION	2.22	1.31	0.79	
tons PER STATION		43.6	25.6	gals. PER STATION				52
square yards PER STATION	444							

*BASED ON 2 APPLICATIONS

TYPICAL SECTION NO. 6

MAINLINE (REVERSE DIMENSIONS FOR CURVE RT)



FOR QUANTITIES SEE TYPICAL NO. 5

SUPER %	WIDTHS (ft)					
	A	B	C	A'	B'	C'
0.04	20.8	21.0	22.7	20.5	20.7	22.0
0.05	20.8	21.0	22.9	20.5	20.7	21.9
0.06	20.8	21.2	23.0	20.5	20.7	21.8

1170+34.22	TO	1175+99.87	4% RT.
1175+99.87	TO	1179+19.75	TRANS. TYP. 6 TO TYP. 5
1190+00.13	TO	1194+45.77	4% LT.
1194+45.77	TO	1197+65.65	TRANS. TYP. 6 TO TYP. 5
1203+96.69	TO	1210+39.93	4% RT.
1210+39.93	TO	1213+59.81	TRANS. TYP. 6 TO TYP. 5
1245+93.90	TO	1254+86.65	5% RT.
1254+86.65	TO	1257+85.20	TRANS. TYP. 6 TO TYP. 5
1265+25.69	TO	1279+20.18	5% LT.
1279+20.18	TO	1285+74.41	TRANS. 5% LT. TO 5% RT.
1285+74.41	TO	1297+97.54	5% RT.
1297+97.54	TO	1300+96.10	TRANS. TYP. 6 TO TYP. 5
1309+13.75	TO	1314+60.70	4% LT.
1314+60.70	TO	1317+80.58	TRANS. TYP. 6 TO TYP. 5

SHEET NO.
06

TYPICAL SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

	DESIGNED BY	REVIEWED BY	CHECKED BY
	S. LUCIO		
9/02/22			

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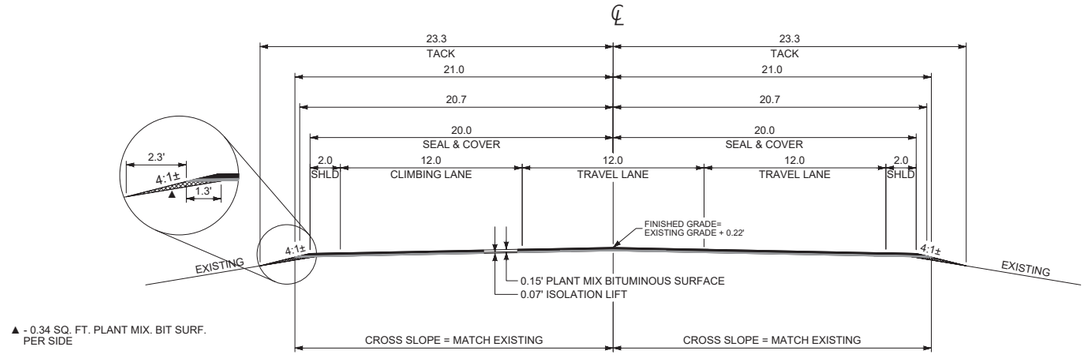
MONTANA Department of Transportation

ROAD PLANS

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TYPICAL SECTION NO. 7

MAINLINE



▲ - 0.34 SQ. FT. PLANT MIX. BIT SURF. PER SIDE

1371+39.11	TO	1381+37.57	
1381+37.57	TO	1384+36.12	TRANS. TYP. 7 TO TYP. 8
1399+93.60	TO	1405+50.16	
1405+50.16	TO	1408+70.05	TRANS. TYP. 7 TO TYP. 8
1444+01.97	TO	1463+01.77	
1463+01.77	TO	1466+09.35	TRANS. TYP. 7 TO TYP. 8
1501+66.57	TO	1511+41.01	
1511+41.01	TO	1514+48.59	TRANS. TYP. 7 TO TYP. 8
1524+70.18	TO	1525+59.06	
1525+59.06	TO	1526+24.67	TRANS. TYP. 7 TO TYP. 3

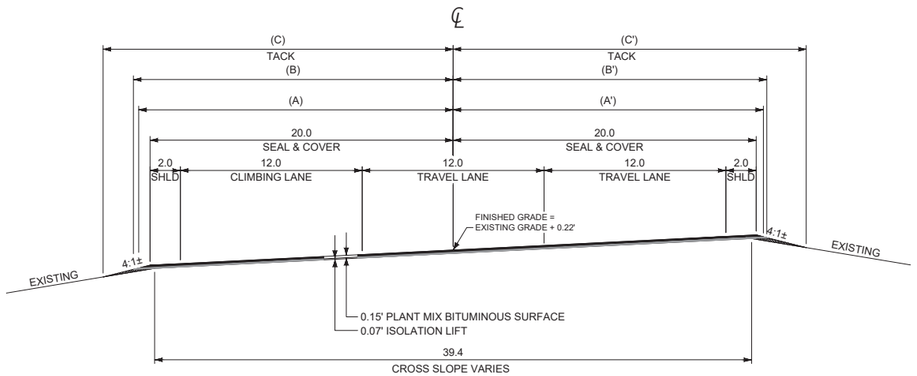
QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX	PLANT MIX ISO. LIFT		ASPHALT CEMENT	ASPHALT CEMENT ISO. LIFT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		6.11	3.60	square yards PER STATION			444	1036
cubic yards PER STATION		22.6	13.3	tons PER STATION	2.22	1.31	0.79	
tons PER STATION		43.6	25.6	gals. PER STATION				52
square yards PER STATION	444							

*BASED ON 2 APPLICATIONS

TYPICAL SECTION NO. 8

MAINLINE (REVERSE DIMENSIONS FOR CURVE RT)



FOR QUANTITIES SEE TYPICAL NO. 7

SUPER %	WIDTHS (ft)					
	A	B	C	A'	B'	C'
0.04	20.8	21.0	22.7	20.5	20.7	22.0
0.05	20.8	21.0	22.9	20.5	20.7	21.9
0.06	20.8	21.2	23.0	20.5	20.7	21.8
0.08	20.9	21.3	23.4	20.5	20.7	21.7

1384+36.12	TO	1396+95.05	5% RT.
1396+95.05	TO	1399+93.60	TRANS. TYP. 8 TO TYP. 7
1408+70.05	TO	1412+80.97	4% RT, THEN TO TYP. 9
1466+09.35	TO	1475+05.87	8% LT.
1475+05.87	TO	1482+34.19	TRANS. 8% LT. TO 5% RT.
1482+34.19	TO	1498+68.01	5% RT.
1498+68.01	TO	1501+66.57	TRANS. TYP. 8 TO TYP. 7
1514+48.59	TO	1521+62.60	8% LT.
1521+62.60	TO	1524+70.18	TRANS. TYP. 8 TO TYP. 7

SHEET NO. 07

TYPICAL SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

MONTANA Department of Transportation

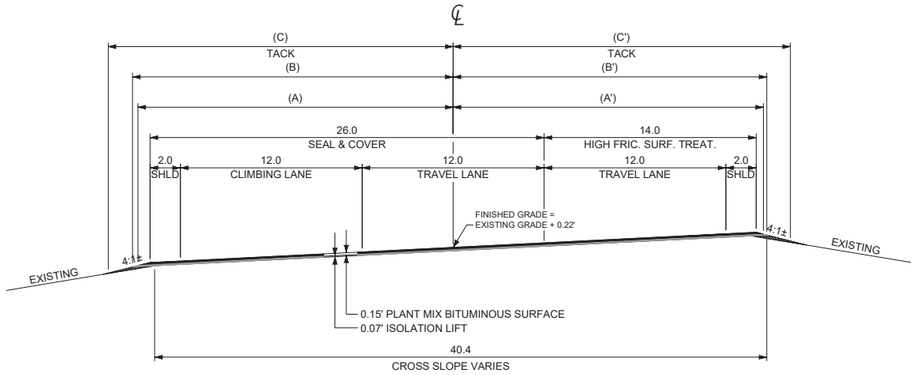
ROAD PLANS

DESIGNED BY	S. LUCIO	9/02/22	9936000RDTYP001.DWG
REVIEWED BY			
CHECKED BY			

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TYPICAL SECTION NO. 9

MAINLINE (REVERSE DIMENSIONS FOR CURVE RT)



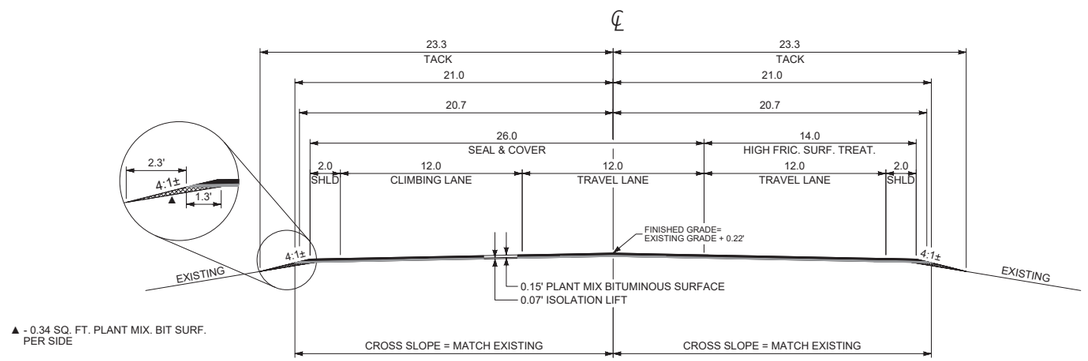
FOR QUANTITIES SEE TYPICAL NO. 10

SUPER %	WIDTHS (ft)					
	A	B	C	A'	B'	C'
0.04	20.8	21.0	22.7	20.5	20.7	22.0
0.05	20.8	21.0	22.9	20.5	20.7	21.9
0.06	20.8	21.2	23.0	20.5	20.7	21.8
0.08	20.9	21.3	23.4	20.5	20.7	21.7

1412+80.97			ONLY
1412+80.97	TO	1416+00.85	TRANS. TYP. 9 TO TYP. 10
1426+96.39	TO	1433+06.46	8% RT.
1433+06.46	TO	1438+09.28	TRANS. 8% RT. TO 8% LT.
1438+09.28	TO	1441+55.91	8% LT.
1441+55.91	TO	1444+01.97	TRANS. TYP. 9 TO TYP. 10

TYPICAL SECTION NO. 10

MAINLINE



▲ - 0.34 SQ. FT. PLANT MIX. BIT SURF. PER SIDE

QUANTITIES									
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				HIGH FRICTION SURFACE TREATMENT ▲
	COVER	PLANT MIX	PLANT MIX ISO. LIFT		ASPHALT CEMENT	ASPHALT CEMENT ISO. LIFT	SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		6.11	3.60	square yards PER STATION			289	1036	156
cubic yards PER STATION		22.6	13.3	tons PER STATION	2.22	1.31	0.52		
tons PER STATION		43.6	25.6	gals. PER STATION				52	
square yards PER STATION	289								

*BASED ON 2 APPLICATIONS
▲ SEE SPECIAL PROVISION

1416+00.85	TO	1424+50.33	
1424+50.33	TO	1426+96.39	TRANS. TYP. 10 TO TYP. 9
1444+01.97			ONLY, THEN TO TYP. 7

SHEET NO.
08

TYPICAL SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

DESIGNED BY	S. LUCIO	9/02/22
REVIEWED BY		
CHECKED BY		

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MONTANA
Department of Transportation

ROAD PLANS

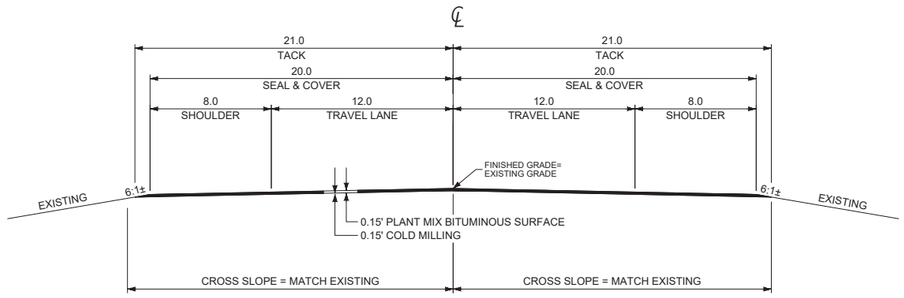
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1593+77.40 ONLY, END OF PROJECT

TYPICAL SECTION NO. 11

MAINLINE



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		6.15	square yards PER STATION		444	467
cubic yards PER STATION		22.8	tons PER STATION	2.24	0.79	
tons PER STATION		43.9	gals. PER STATION			23
square yards PER STATION	444					

*BASED ON 1 APPLICATION

SHEET NO. 09

TYPICAL SHEET

LAME DEER - EAST

ROSEBUD COUNTY

NH-HSIP 37-2(46)42

9936000

MONTANA Department of Transportation

ROAD PLANS

DESIGNED BY	S. LUCIO
REVIEWED BY	
CHECKED BY	
PROJECT ID	
COUNTY	
PROJECT NAME	
UPN	9936000
9/02/22	

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SURFACING

STATION		linear feet				FOR	tons	AGGREGATE					BITUMINOUS MATERIAL				sq. yards	REMARKS
								sq. yards	tons			cu. yards	tons			gals.		
FROM	TO	GROSS	NET	+	-		HYDRATED LIME	COVER TYPE I	PLANT MIX BIT. SURF. GR. S - 3/4"	PLANT MIX BIT. SURF. GR. S - 3/4" ISO LIFT	PLANT MIX BIT. SURF. GR. S MISC	SHOULDER GRAVEL	ASPHALT CEMENT PG 70-28	ASPHALT CEMENT PG 70-28 ISO LIFT	EMULSIFIED ASPHALT CHFRS-2P	EMULSIFIED ASPHALT TACK	HIGH FRICTION SURFACE TREATMENT	
938+48.00	949+96.42	1,148.42	1,148.42					4,904	478				24.3		8.7	253		TYPICAL 1
949+96.42	951+96.42	200.00	200.00					888	88	26			4.5	1.3	1.6	75		TRANS. TYP 2 TO TYP. 3
951+96.42	1036+54.82	8,458.40	8,458.40					37,555	3,688	2,165			187.8	110.8	66.8	4,398		TYPICAL 3
1036+54.82	1039+74.70	319.88	319.88					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 3 TO TYP. 4
1039+74.70	1052+59.22	1,284.52	1,284.52					5,703	560	329			28.5	16.8	10.1	668		TYPICAL 4 (4% RT.)
1052+59.22	1055+79.10	319.88	319.88					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 4 TO TYP. 3
1055+79.10	1066+80.48	1,101.38	1,101.38					4,890	480	282			24.5	14.4	8.7	573		TYPICAL 3
1066+80.48	1069+64.83	284.35	284.35					1,263	124	73			6.3	3.7	2.2	148		TRANS. TYP. 3 TO TYP. 4
1069+64.83	1076+94.55	729.72	729.72					3,240	318	187			16.2	9.6	5.8	379		TYPICAL 4 (6% LT.)
1076+94.55	1079+78.90	284.35	284.35					1,263	124	73			6.3	3.7	2.2	148		TRANS. TYP. 4 TO TYP. 3
1079+78.90	1101+50.00	2,171.10	2,171.10					9,640	947	556			48.2	28.4	17.2	1,129		TYPICAL 3
1101+50.00	1104+48.56	298.56	298.56					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 3 TO TYP. 4
1104+48.56	1122+67.91	1,819.35	1,819.35					8,078	793	466			40.4	23.8	14.4	946		TYPICAL 4 (5% RT.)
1122+67.91	1125+66.47	298.56	298.56					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 4 TO TYP. 3
1125+66.47	1136+52.49	1,086.02	1,086.02					4,822	474	278			24.1	14.2	8.6	565		TYPICAL 3
1136+52.49	1139+72.38	319.89	319.89					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 3 TO TYP. 4
1139+72.38	1153+26.28	1,353.90	1,353.90					6,011	590	347			30.1	17.7	10.7	704		TYPICAL 4 (4% LT.)
1153+26.28	1156+46.16	319.88	319.88					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 4 TO TYP. 5
1156+46.16	1167+14.34	1,068.18	1,068.18					4,743	466	273			23.7	14.0	8.4	555		TYPICAL 5
1167+14.34	1170+34.22	319.88	319.88					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 5 TO TYP. 6
1170+34.22	1175+99.87	565.65	565.65					2,511	247	145			12.6	7.4	4.5	294		TYPICAL 6 (4% RT.)
1175+99.87	1179+19.75	319.88	319.88					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 6 TO TYP. 5
1179+19.75	1186+80.25	760.50	760.50					3,377	332	195			16.9	10.0	6.0	395		TYPICAL 5
1186+80.25	1190+00.13	319.88	319.88					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 5 TO TYP. 6
1190+00.13	1194+45.77	445.64	445.64					1,979	194	114			9.9	5.8	3.5	232		TYPICAL 6 (4% LT.)
1194+45.77	1197+65.65	319.88	319.88					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 6 TO TYP. 5
1197+65.65	1200+76.80	311.15	311.15					1,382	136	80			6.9	4.1	2.5	162		TYPICAL 5
1200+76.80	1203+96.69	319.89	319.89					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 5 TO TYP. 6
1203+96.69	1210+39.93	643.24	643.24					2,856	280	165			14.3	8.4	5.1	334		TYPICAL 6 (4% RT.)
1210+39.93	1213+59.81	319.88	319.88					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 6 TO TYP. 5
1213+59.81	1242+95.34	2,935.53	2,935.53					13,034	1,280	751			65.2	38.5	23.2	1,526		TYPICAL 5
1242+95.34	1245+93.90	298.56	298.56					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 5 TO TYP. 6
1245+93.90	1254+86.65	892.75	892.75					3,964	389	229			19.8	11.7	7.1	464		TYPICAL 6 (5% RT.)
1254+86.65	1257+85.20	298.55	298.55					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 6 TO TYP. 5
1257+85.20	1262+27.13	441.93	441.93					1,962	193	113			9.8	5.8	3.5	230		TYPICAL 5
1262+27.13	1265+25.69	298.56	298.56					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 5 TO TYP. 6
1265+25.69	1279+20.18	1,394.49	1,394.49					6,192	608	357			31.0	18.3	11.0	725		TYPICAL 6 (5% LT.)
1279+20.18	1285+74.41	654.23	654.23					2,905	285	167			14.5	8.6	5.2	340		TYPICAL 6 (5% LT. TO 5% RT.)
1285+74.41	1297+97.54	1,223.13	1,223.13					5,431	533	313			27.2	16.0	9.7	636		TYPICAL 6 (5% RT.)
1297+97.54	1300+96.10	298.56	298.56					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 6 TO TYP. 5
1300+96.10	1305+93.96	497.86	497.86					2,210	217	127			11.1	6.5	3.9	259		TYPICAL 5
1305+93.96	1309+13.75	319.79	319.79					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 5 TO TYP. 6
1309+13.75	1314+60.70	546.95	546.95					2,428	238	140			12.1	7.2	4.3	284		TYPICAL 6 (4% LT.)
1314+60.70	1317+80.58	319.88	319.88					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 6 TO TYP. 5
1317+80.58	1332+83.43	1,502.85	1,502.85					6,673	655	385			33.4	19.7	11.9	781		TYPICAL 5
1332+83.43	1335+81.99	298.56	298.56					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 5 TO TYP. 4
1335+81.99	1352+59.65	1,677.66	1,677.66					7,449	731	429			37.2	22.0	13.3	872		TYPICAL 4 (6% LT.)
1352+59.65	1355+58.50	298.85	298.85					1,327	130	77			6.6	3.9	2.4	155		TRANS. TYP. 4 TO TYP. 3
1355+58.50	1369+75.07	1,416.57	1,416.57					6,290	618	363			31.4	18.6	11.2	737		TYPICAL 3
1369+75.07	1371+39.11	164.04	164.04					728	72	42			3.6	2.1	1.3	85		TRANS. TYP. 3 TO TYP. 7
1371+39.11	1381+37.57	998.46	998.46					4,433	435	256			22.2	13.1	7.9	519		TYPICAL 7
1381+37.57	1384+36.12	298.55	298.55					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 7 TO TYP. 8
1384+36.12	1396+95.05	1,258.93	1,258.93					5,590	549	322			27.9	16.5	9.9	655		TYPICAL 8 (5% RT.)
1396+95.05	1399+93.60	298.55	298.55					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 8 TO TYP. 7
1399+93.60	1405+50.16	556.56	556.56					2,471	243	142			12.4	7.3	4.4	289		TYPICAL 7
1405+50.16	1408+70.05	319.89	319.89					1,420	139	82			7.1	4.2	2.5	166		TRANS. TYP. 7 TO TYP. 8
1408+70.05	1412+80.97	410.92	410.92					1,824	179	105			9.1	5.4	3.2	214		TYPICAL 8 (4% RT.), THEN TO TYP9
1412+80.97	1416+00.85	319.88	319.88					924	139	82			7.1	4.2	1.7	166	499	TRANS. TYP. 9 TO TYP. 10

SHEET NO.
10

SUMMARY SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

MONTANA
Department of Transportation

ROAD PLANS

CHECKED BY
REVIEWED BY
DESIGNED BY: S. LUCIO 9/02/22

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SURFACING (CONT.)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE I	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 3/4"	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 3/4" ISO LIFT	AGGREGATE tons PLANT MIX BIT. SURF. GR. S MISC	AGGREGATE cu. yards SHOULDER GRAVEL	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 70-28	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 70-28 ISO LIFT	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards HIGH FRICTION SURFACE TREATMENT	REMARKS
1416+00.85	1424+50.33	849.48	849.48					2,455	370	217			18.9	11.1	4.4	442	1,325	TYPICAL 10
1424+50.33	1426+96.39	246.06	246.06					711	107	63			5.5	3.2	1.3	128	384	TRANS. TYP. 10 TO TYP. 9
1426+96.39	1433+06.46	610.07	610.07					1,763	266	156			13.5	8.0	3.2	317	952	TYPICAL 9 (8% RT.)
1433+06.46	1438+09.28	502.82	502.82					1,453	219	129			11.2	6.6	2.6	261	784	TYPICAL 9 (8% RT. TO 8% LT.)
1438+09.28	1441+55.91	346.63	346.63					1,002	151	89			7.7	4.5	1.8	180	541	TYPICAL 9 (8% LT.)
1441+55.91	1444+01.97	246.06	246.06					711	107	63			5.5	3.2	1.3	128	384	TRANS. TYP. 9 TO TYP. 10 THEN TO TYP. 7
1444+01.97	1463+01.77	1,899.80	1,899.80					8,435	828	486			42.2	24.9	15.0	988		TYPICAL 7
1463+01.77	1466+09.35	307.58	307.58					1,366	134	79			6.8	4.0	2.4	160		TRANS. TYP. 7 TO TYP. 8
1466+09.35	1475+05.87	896.52	896.52					3,981	391	230			19.9	11.7	7.1	466		TYPICAL 8 (8% LT.)
1475+05.87	1482+34.19	728.32	728.32					3,234	318	186			16.2	9.5	5.8	379		TYPICAL 8 (8% LT. TO 5% RT.)
1482+34.19	1498+68.01	1,633.82	1,633.82					7,254	712	418			36.3	21.4	12.9	850		TYPICAL 8 (5% RT.)
1498+68.01	1501+66.57	298.56	298.56					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 8 TO TYP. 7
1501+66.57	1511+41.01	974.44	974.44					4,327	425	249			21.6	12.8	7.7	507		TYPICAL 7
1511+41.01	1514+48.59	307.58	307.58					1,366	134	79			6.8	4.0	2.4	160		TRANS. TYP. 7 TO TYP. 8
1514+48.59	1521+62.60	714.01	714.01					3,170	311	183			15.9	9.4	5.6	371		TYPICAL 8 (8% LT.)
1521+62.60	1524+70.18	307.58	307.58					1,366	134	79			6.8	4.0	2.4	160		TRANS. TYP. 8 TO TYP. 7
1524+70.18	1525+59.06	88.88	88.88					395	39	23			2.0	1.2	0.7	46		TYPICAL 7
1525+59.06	1526+24.67	65.61	65.61					291	29	17			1.5	0.9	0.5	34		TRANS. TYP. 7 TO TYP. 3
1526+24.67	1539+26.41	1,301.74	1,301.74					5,780	568	333			28.9	17.1	10.3	677		TYPICAL 3
1539+26.41	1542+24.97	298.56	298.56					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 3 TO TYP. 4
1542+24.97	1545+02.56	277.59	277.59					1,232	121	71			6.2	3.6	2.2	144		TYPICAL 4 (5% RT.)
1545+02.56	1548+01.12	298.56	298.56					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 4 TO TYP. 3
1548+01.12	1571+86.29	2,385.17	2,385.17					10,590	1,040	611			53.0	31.2	18.8	1,240		TYPICAL 3
1571+86.29	1574+84.84	298.55	298.55					1,326	130	76			6.6	3.9	2.4	155		TRANS. TYP. 3 TO TYP. 4
1574+84.84	1579+75.16	490.32	490.32					2,177	214	126			10.9	6.4	3.9	255		TYPICAL 4 (5% RT.)
1579+75.16	1581+75.26	200.10	200.10					888	87	51			4.4	2.6	1.6	104		TRANS. TYP. 4 TO TYP. 3
1581+75.26	1591+77.40	1,002.14	1,002.14					4,450	437	257			22.2	13.1	7.9	521		TYPICAL 3
1591+77.40	1593+77.40	200.00	200.00					888	88	26			4.5	1.3	1.6	75		TRANS. TYP. 3 TO TYP. 11
						ADDITIONAL SURFACING		2,583	735	931	374	1,664	56.1	47.5	4.6	442		
TOTAL		65,529.40	65,529.40				658	288,506	29,275	17,360	374	1,664	1,509.7	888.0	513.8	34,103.0	4,869	

EQUIPMENT

STATION FROM	STATION TO	hours MOTOR GRADER	REMARKS
938+48	1593+77	20	CLEAR INSLOPES OF VEGETATION
TOTAL		20	

COLD MILLING ▲

STATION FROM	STATION TO	sq. yards COLD MILLING 0.15'	sq. yards COLD MILLING 0.00' TO 0.15'	REMARKS
938+48.00	949+96.42	4,964		TYPICAL 1
949+96.42	951+96.42		456	TYPICAL 2 TO 3 TRANSITION
1591+77.40	1593+77.40		922	ENDING CONNECTION
SUBTOTAL		4,964	1,378	
TOTAL		6,342		

▲ SEE DETAILS

SHEET NO. 11

SUMMARY SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

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ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION		linear feet				FOR	tons	AGGREGATE					BITUMINOUS MATERIAL				sq. yards	REMARKS
								sq. yards	tons			cu. yards	tons			gals.		
FROM	TO	GROSS	NET	+	-		HYDRATED LIME	COVER TYPE I	PLANT MIX BIT. SURF. GR. S - 3/4"	PLANT MIX BIT. SURF. GR. S - 3/4" ISO LIFT	PLANT MIX BIT. SURF. GR. S MISC	SHOULDER GRAVEL	ASPHALT CEMENT PG 70-28	ASPHALT CEMENT PG 70-28 ISO LIFT	EMULSIFIED ASPHALT CHFRS-2P	EMULSIFIED ASPHALT TACK	HIGH FRICTION SURFACE TREATMENT	
938+78.15	941+54.08					GUARDRAIL WIDENING						24						LT.
1001+84.35	1004+96.28					GUARDRAIL WIDENING						27						LT.
1157+04.27	1162+68.20					GUARDRAIL WIDENING						45						RT.
1162+72.97	1169+61.94					CHAIN-UP AREA		969	275				14.0		1.7	96		LT. & RT.
1168+59.68	1172+97.61					GUARDRAIL WIDENING						36						RT.
1182+80.12	1189+88.05					GUARDRAIL WIDENING						56						RT.
1201+41.21	1207+41.14					GUARDRAIL WIDENING						48						RT.
1209+59.12	1218+11.05					GUARDRAIL WIDENING						67						RT.
1226+59.65	1241+59.58					GUARDRAIL WIDENING						114						RT.
1242+80.71	1247+72.64					GUARDRAIL WIDENING						40						RT.
1246+10.30	1253+90.23					GUARDRAIL WIDENING						61						LT.
1257+35.60	1266+95.53					GUARDRAIL WIDENING						75						LT.
1273+27.00	1282+14.93					GUARDRAIL WIDENING						69						RT.
1277+99.61	1284+71.54					GUARDRAIL WIDENING						53						LT.
1366+65.52	1377+33.45					GUARDRAIL WIDENING						83						LT.
1366+75.49	1375+63.42					GUARDRAIL WIDENING						69						RT.
1378+51.05	1385+36.75					CHAIN-UP AREA		969	275				14.0		1.7	96		LT. & RT.
1405+00.13	1417+48.06					GUARDRAIL WIDENING						96						RT.
1427+11.22	1435+82.15					GUARDRAIL WIDENING						68						RT.
1439+23.00	1466+64.93					GUARDRAIL WIDENING						206						RT.
1470+35.89	1481+75.82					GUARDRAIL WIDENING						88						RT.
1491+42.68	1499+76.61					GUARDRAIL WIDENING						65						RT.
1532+80.84	1539+69.82					CHAIN-UP AREA		646	185				9.4		1.2	64		LT. & RT.
1571+59.97	1581+19.90					GUARDRAIL WIDENING						75						RT.
						ADDITIONAL WIDENING						199						ADDITIONAL WIDENING FOR TYP. 2 THRU 10
						LEVELING ♦				931				47.5				
						19 - FARM/FIELD APPROACHES					114		5.7			57		
						39 - PRIVATE APPROACHES					228		11.4			114		
						5 - PUBLIC APPROACHES					32		1.6			15		
SUBTOTAL		~	~	~	~		~	2,583	735	931	374	1,664	56.1	47.5	4.6	442	~	

♦ LEVELING - 75 TONS/MILE
INSTALL GUARDRAIL WIDENING PER DET. DWG. NO. 606-55. STATION RANGE IS THE LENGTH OF GUARDRAIL

SHEET NO.
12

SUMMARY SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

9/02/2022 S. LUCIO 9936000RDSUM001.DWG

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GUARDRAIL

STATION		linear feet						each		REMARKS
		REMOVE GUARDRAIL		RESET GUARDRAIL		BOXBEAM GUARDRAIL		BOX BEAM TERMINAL SECTION - MBEAT		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
938+78.15	941+54.08	96.4		180.0		72.0		2		REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1001+84.35	1004+96.28	96.4		216.0		72.0		2		REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1157+04.27	1162+68.20		96.4		468.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1168+59.68	1172+97.61		96.4		342.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1182+80.12	1189+88.05		96.4		612.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1201+41.21	1207+41.14		96.4		504.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1209+59.12	1218+11.05		96.4		756.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1226+59.65	1241+59.58		96.4		1,404.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1242+80.71	1247+72.64		96.4		396.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1246+10.30	1253+90.23	96.4		684.0		72.0		2		REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1257+35.60	1266+95.53	96.4		864.0		72.0		2		REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1273+27.00	1282+14.93		96.4		792.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1277+99.61	1284+71.54	96.4		576.0		72.0		2		REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1366+65.52	1377+33.45	96.4		972.0		72.0		2		REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1366+75.49	1375+63.42		96.4		792.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1405+00.13	1417+48.06		96.4		1,152.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1427+11.22	1435+82.15		96.4		774.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1439+23.00	1466+64.93		96.4		2,646.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1470+35.89	1481+75.82		96.4		1,044.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1491+42.68	1499+76.61		96.4		738.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
1571+59.97	1581+19.90		96.4		864.0		72.0		2	REMOVE & REPLACE END SECTIONS (RESET BOX BEAM)
SUBTOTAL		578.4	1,446.0	3,492.0	13,284.0	432.0	1,080.0	12	30	
TOTAL		2,024.4		16,776.0		1,512.0		42		

CURB

STATION		linear feet		REMARKS
		REMOVE CURB		
FROM	TO	LEFT	RIGHT	
938+77.62	941+41.40	263.8		CURB LT.
1158+84.38	1162+39.04		354.7	CURB RT.
1169+66.96	1172+60.60		293.6	CURB RT.
1183+32.94	1188+63.12		530.2	CURB RT.
1203+00.98	1206+74.34		373.4	CURB RT.
1210+94.29	1217+51.44		657.2	CURB RT.
1228+18.11	1241+10.43		1,292.3	CURB RT.
1258+12.37	1265+60.73	748.4		CURB LT.
1367+15.88	1376+22.21	906.3		CURB LT.
1368+08.86	1375+28.54		719.7	CURB RT.
1406+91.90	1416+25.30		933.4	CURB RT.
1427+35.50	1434+64.17		728.7	CURB RT.
1443+48.43	1464+14.04		2,065.6	CURB RT.
1477+42.78	1481+39.11		396.3	CURB RT.
1493+23.82	1499+45.87		622.0	CURB RT.
1573+40.55	1580+59.06		718.5	CURB RT.
SUBTOTAL		1,918.5	9,685.6	
TOTAL		11,604.0		

RUMBLE STRIPS

STATION		miles		gals	REMARKS
		RUMBLE STRIPS		EMULSIFIED ASPHALT FOG SEAL #	
		INTER-MITTENT	CENTERLINE TYPE III		
FROM	TO				
938+48.00	1593+77.40	12.4		1,455	LT.
938+48.00	1593+77.40	12.4		1,455	RT.
938+48.00	1593+77.40		12.3	1,443	CENTERLINE
SUBTOTAL		24.8	12.3	4,353	
TOTAL		24.8	12.3	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

SHEET NO.
13

SUMMARY SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

				9/02/2022	9936000RDSUM001.DWG
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		REVIEWED BY			
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BITUMINOUS PAVEMENT REMOVAL

STATION		sq. yards	REMARKS
FROM	TO	REMOVE BITUMINOUS PAVEMENT	
938+78.15	941+54.08	138	REMOVE PMS BEHIND EX. GUARDRAIL LT.
1001+84.35	1004+96.28	149	REMOVE PMS BEHIND EX. GUARDRAIL LT.
1157+04.27	1162+68.20	226	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1168+59.68	1172+97.61	188	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1182+80.12	1189+88.05	270	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1201+41.21	1207+41.14	237	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1209+59.12	1218+11.05	314	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1226+59.65	1241+59.58	512	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1242+80.71	1247+72.64	204	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1246+10.30	1253+90.23	292	REMOVE PMS BEHIND EX. GUARDRAIL LT.
1257+35.60	1266+95.53	347	REMOVE PMS BEHIND EX. GUARDRAIL LT.
1273+27.00	1282+14.93	325	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1277+99.61	1284+71.54	259	REMOVE PMS BEHIND EX. GUARDRAIL LT.
1366+65.52	1377+33.45	380	REMOVE PMS BEHIND EX. GUARDRAIL LT.
1366+75.49	1375+63.42	325	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1405+00.13	1417+48.06	435	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1427+11.22	1435+82.15	320	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1439+23.00	1466+64.93	892	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1470+35.89	1481+75.82	402	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1491+42.68	1499+76.61	309	REMOVE PMS BEHIND EX. GUARDRAIL RT.
1571+59.97	1581+19.90	347	REMOVE PMS BEHIND EX. GUARDRAIL RT.
TOTAL		6,871	

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICA-TION #	FINAL APPLICA-TION	TOTAL
STRIPING - WHITE PAINT	gallon	958		958
STRIPING - YELLOW PAINT	gallon	604		604
WORDS & SYMBOLS - WHITE PAINT	gallon	16		16
STRIPING - WHITE EPOXY	gallon		639	639
STRIPING - YELLOW EPOXY	gallon		403	403
WORDS & SYMBOLS - WHITE EPOXY	gallon		10	10
TEMPORARY STRIPING	linear feet			**65,472**
FINAL SWEEP AND BROOM	course mile			**12.4**

BASED ON 2 APPLICATIONS.

SHEET NO.
14

SUMMARY SHEET

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

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Department of Transportation

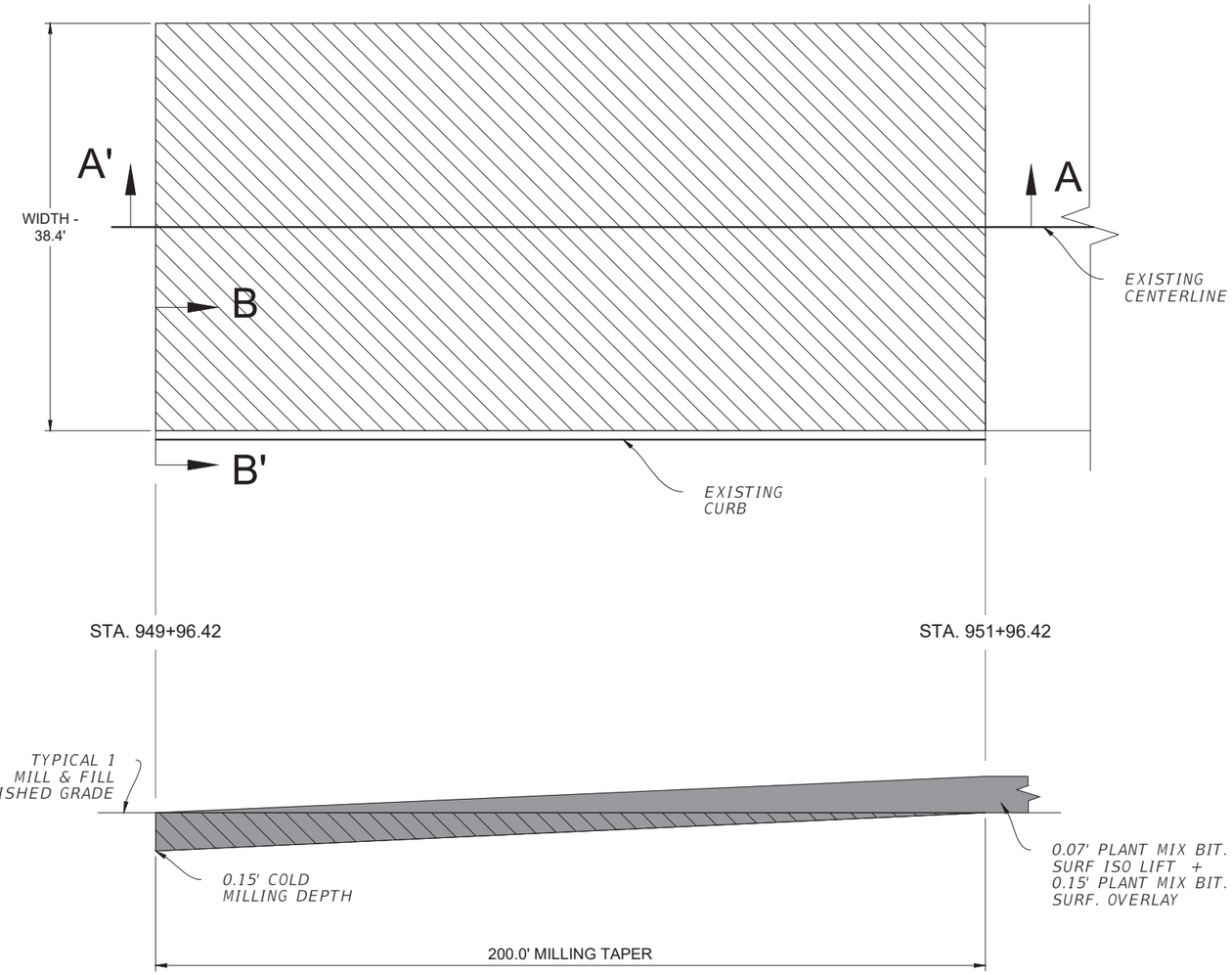
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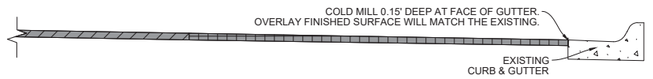
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SECTION A'-A



SECTION B'-B

- 0.15' TO 0.00' COLD MILLING TAPER

- PLANT MIX BIT. SURF. OVERLAY

SHEET NO.
15

DETAIL SHEET
COLD MILLING -
BEGINNING
CONNECTION

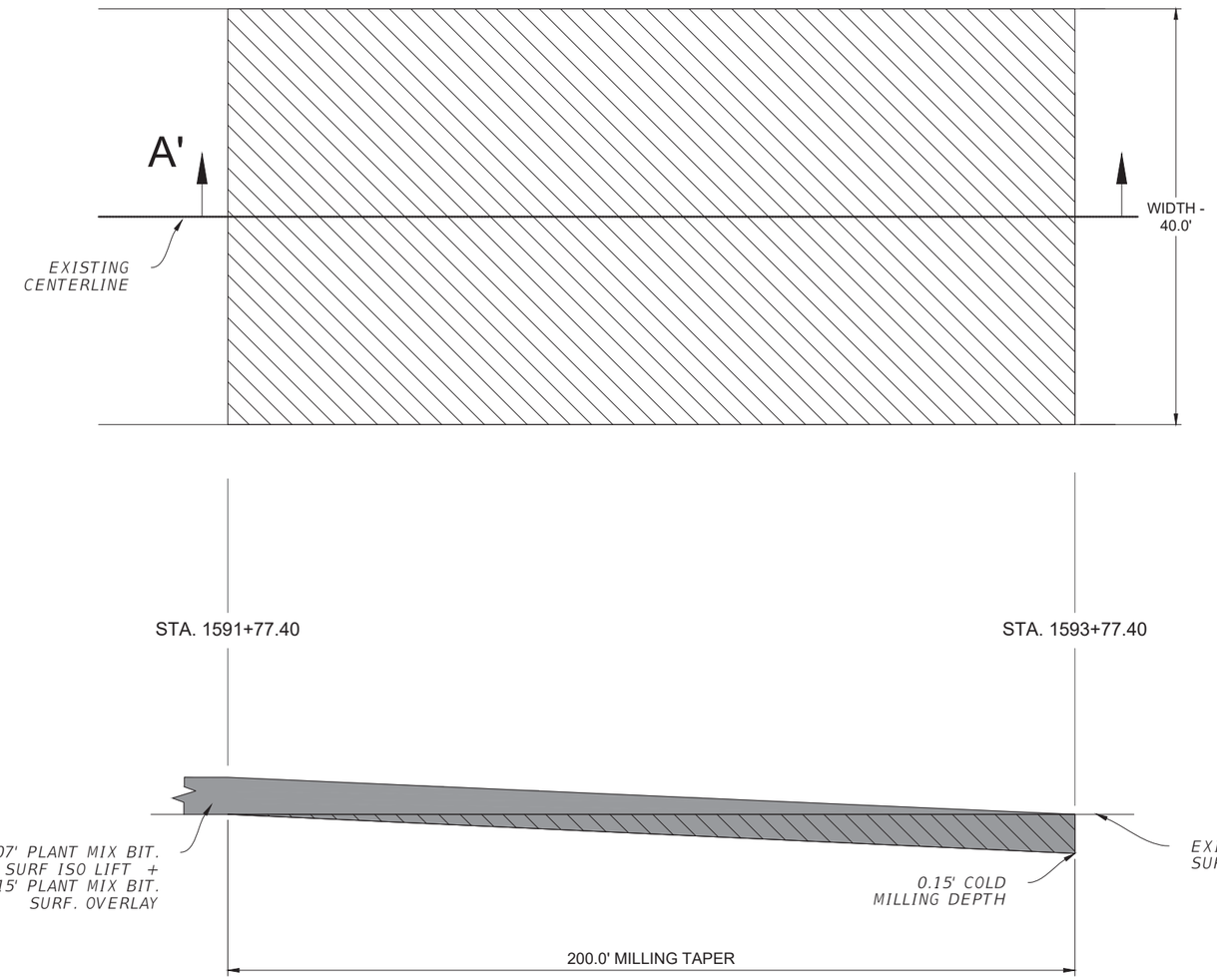
PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

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SECTION A'-A

- 0.15' TO 0.00' COLD MILLING TAPER

- PLANT MIX BIT. SURF. OVERLAY

SHEET NO. 16

DETAIL SHEET
COLD MILLING -
ENDING CONNECTION

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

DESIGNED BY: S. LUCIO 9/06/22
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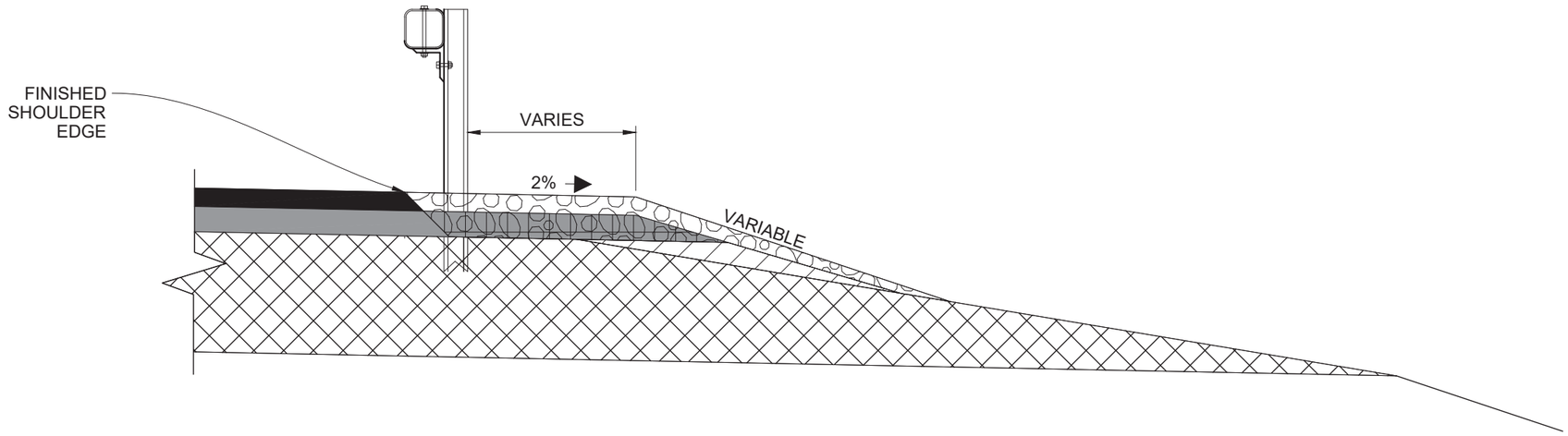
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- EXISTING SUBGRADE (USE IN PLACE)
- PLANT MIX GUARDRAIL WIDENING REMOVAL
- EXISTING PLANT MIX
- NEW GUARDRAIL WIDENING
- EXISTING GUARDRAIL WIDENING USE IN PLACE
- NEW PLANT MIX (SEE TYPICALS)

SHEET NO.
17

DETAIL SHEET
GUARDRAIL WIDENING

PROJECT NAME: LAME DEER - EAST
COUNTY: ROSEBUD COUNTY
PROJECT ID: NH-HSIP 37-2(46)42
UPN: 9936000

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ROAD PLANS

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV		SQ. FOOT
SIGNS-ALUM REFL SHEET XI	398.6	SQ. FOOT
.		
SIGNS-ALUM SHEET INCR IV		SQ. FOOT
SIGNS-ALUM SHEET INCR XI	283.2	SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL U SIGN	240	POUNDS
POLES-TREATED WOOD 3 IN		LINEAR FT.
POLES-TREATED WOOD 4 IN	434	LINEAR FT.
POLES-TREATED WOOD 5 IN	168	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	189*	EACH
DELINEATOR DES B		EACH
DELINEATOR DES C		EACH
DELINEATOR DES D	88*	EACH
DELINEATOR DES E		EACH
DELINEATOR DES F	270*	EACH
DELINEATOR DES G		EACH
DELINEATOR DES H		EACH
REMOVE SIGNS	57	EACH
REMOVE SIGNS-GUIDE	12	EACH
RESET SIGNS	9	EACH
RESET SIGNS-GUIDE		EACH
.		
FRANG SIGN POST BKWY-		EACH
FRANG SIGN POST BKWY-		EACH
.		
.		
SQ TUBLR SLIP BASE BKWY-3 IN		EACH

* REPLACE DELINEATORS IN THEIR CURRENT LOCATION. A 5% CONTINGENCY HAS BEEN ADDED TO EACH DELINEATOR TYPE.

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

	RAMP NO.	SIGN NO.	PANEL SIZE	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 TYPE XI	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT TYPE XI	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 3" TOP DIA.	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
42.41 RT		R1-1	30 X 30	6-0		4 IN DIA POLE		12-6		5-0	3-0	6.3				14.0						1					STOP
42.46 RT		R2-1	24 X 30	10-0		4 IN DIA POLE		12-6		5-0	3-0	5.0				14.0						1					SPEED LIMIT 55
42.46 LT		R2-1	24 X 30	REPLACE SIGN FACE ONLY USE AS IS								5.0										1					SPEED LIMIT 35;SIGN FACES WB TRAFFIC RADAR SPEED MONITOR SIGN: USE AS IS
42.52 RT		W14-3	48 X 48 X 36	10-0		4 IN DIA POLE		13-0		5-0	3-0	5.5				14.0						1					NO PASSING ZONE
42.61 LT		D3 D3	42 X 18 42 X 18	REPLACE SIGN FACE ONLY								4.5 4.5										1					LITTLE WHITEMAN LN
42.66 RT		R2-1	24 X 30	10-0		4 IN DIA POLE		12-6		5-0	3-0	5.0				14.0						1					SPEED LIMIT 65
42.66 LT		R2-1	24 X 30	10-0		4 IN DIA POLE		12-6		5-0	3-0	5.0				14.0						1					SPEED LIMIT 55
42.75 LT		W3-5	36 X 36	10-0		4 IN DIA POLE		14-7		5-0	3-0	9.0				16.0						1					REDUCE SPEED LIMIT 55 YELLOW
43.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0	1					REFERENCE POST 43
43.99 RT		N7-1 N7-1P	RESET	20-0						5-1													1				ADOPT A HIGHWAY LITTER CONTROL NEXT 4 MILES INDIAN HEALTH SERVICE NCSU
43.99 LT		N7-1	RESET	20-0						5-0													1				ADOPT A HIGHWAY LITTER CONTROL NEXT 3 MILES
44.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0	1					REFERENCE POST 44
44.59 LT		W14-3	48 X 48 X 36	10-0		4 IN DIA POLE		13-0		5-0	3-0	5.5				14.0						1					NO PASSING ZONE
44.91 LT		W14-3	48 X 48 X 36	10-0		4 IN DIA POLE		13-0		5-0	3-0	5.5				14.0						1					NO PASSING ZONE
45.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0	1					REFERENCE POST 45
45.01 LT		D3 D3	30 X 18 30 X 18	REPLACE SIGN FACE ONLY								3.8 3.8										1					BURNS COURT LN
45.12 RT		W14-3	48 X 48 X 36	10-0		4 IN DIA POLE		13-0		5-0	3-0	5.5				14.0						1					NO PASSING ZONE
45.40 LT		W14-3	48 X 48 X 36	10-0		4 IN DIA POLE		13-0		5-0	3-0	5.5				14.0						1					NO PASSING ZONE





































ADOPT-A-HIGHWAY SIGNING

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45.85 RT		IS12-13	60 X 42	REPLACE SIGN FACE ONLY									17.5											1		BBR	CHAIN-UP AREA ½ MILE
46.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0		1					REFERENCE POST 46
46.01 RT		R37-45A	96 X 66	REPLACE SIGN FACE ONLY									44.0											1		BBR	WHEN FLASHING CHAINS REQUIRED FOR TOWING UNITS
46.26 RT		W8-11a	30 X 30	10-0		4 IN DIA POLE		12-6		5-0	3-0	6.3				14.0							1					FALLING ROCKS
46.38 RT		R4-3	24 X 30	5-0		4 IN DIA POLE		11-6		5-0	3-0	5.0				12.0							1					SLOWER TRAFFIC KEEP RIGHT
46.38 LT		R4-2	24 X 30	10-0		4 IN DIA POLE		12-6		5-0	3-0	5.0				14.0												PASS WITH CARE
46.44 RT		IS12-1	60 X 30	REPLACE SIGN FACE ONLY									12.5											1		BBR	CHAIN-UP AREA
46.59 RT		W8-12a	USE AS IS																									HINGED SIGN USE AS IS
46.60 LT		IS10-1	78 X 30	REPLACE SIGN FACE ONLY									16.3											1		BBR	CHAIN REMOVAL AREA
47.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0		1					REFERENCE POST 47
47.11 LT		IS9-1	78 X 42	REPLACE SIGN FACE ONLY									22.8											1		BBR	CHAIN REMOVAL AREA ½ MILE
48.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0		1					REFERENCE POST 48
48.00 RT		N7-1 N7-1P	RESET	20-0						5-1														1				ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES MEMORY OF C.W. STANDING ELK
48.00 LT		N7-1 N7-1P	RESET	20-0						5-1														1				ADOPT A HIGHWAY LITTER CONTROL NEXT 4 MILES INDIAN HEALTH SERVICE NCSU
48.23 LT		W8-11a	30 X 30	10-0		4 IN DIA POLE		12-6		5-0	3-0	6.3				14.0							1					FALLING ROCKS
49.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0		1					REFERENCE POST 49
49.26 RT		G37-49A	114 X 36	REPLACE SIGN FACE ONLY									28.5											1		BBR	CRAZY HEAD SPRINGS
49.28 LT		W8-12a	USE AS IS																									HINGED SIGN USE AS IS



ADOPT-A-HIGHWAY SIGNING

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2	MONTANA Department of Transportation		DESIGNED BY SAP	SIGNING PLANS		LAME DEER - EAST	NH-HSIP 37-2(46)42
1	02/15/23		REVIEWED BY IDM CHECKED BY IDM	ROSEBUD COUNTY		UPN# 9936000	S3

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

STATION	RAMP NO.	SIGN NO.	PANEL SIZE	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 TYPE XI	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT TYPE XI	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 3" TOP DIA.	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
49.30 RT		R1-1	30 X 30	12-0		4 IN DIA POLE		12-6		5-0	3-0	6.3			14.0							1					STOP
49.32 LT		G37-49B	114 X 36	REPLACE SIGN FACE ONLY									28.5											1		BBR	CRAZY HEAD SPRINGS
49.46 RT		W9-1	36 X 36	10-0		4 IN DIA POLE		13-0		5-0	3.0	9.0			14.0												RIGHT LANE ENDS (TEXT)
49.50 RT		W4-2	36 X 36	10-0		4 IN DIA POLE		13-0		5-0	3.0	9.0			14.0							1					RIGHT LANE ENDS
49.69 LT		R1-1	30 X 30	12-0		4 IN DIA POLE		12-6		5-0	3-0	6.3			14.0							1					STOP
49.85 RT		W14-3	48 X 48 X 36	10-0		4 IN DIA POLE		13-0		5-0	3-0	5.5			14.0							1					NO PASSING ZONE
50.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0	1					REFERENCE POST 50
50.00 RT		N7-1 N7-1P	RESET	20-0						5-1												1					ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES MEMORY OF HOXO VENA HANE'E
50.00 LT		N7-1 N7-1P	RESET	20-0						5-1												1					ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES MEMORY OF C.W. STANDING ELK
50.30 LT		W14-3	48 X 48 X 36	10-0		4 IN DIA POLE		13-0		5-0	3-0	5.5			14.0							1					NO PASSING ZONE
50.47 RT		W7-1a W7-3aP	30 X 30 24 X 18	5-0		4 IN DIA POLE		12-1		5-7	3-0	6.3 3.0			14.0							X 1					HILL W/% GRADE NEXT 2 MILES
50.54 RT		W1-4 W16-9P	30 X 30 REMOVE	10-0		4 IN DIA POLE		12-6		5-0	3-0	6.3			14.0							1					RIGHT REVERSE CURVE REMOVE AHEAD SIGN
50.56 LT		R1-1	30 X 30	12-0		4 IN DIA POLE		12-6		5-0	3-0	6.3			14.0							1					STOP
50.66 LT		W9-1	36 X 36	10-0		4 IN DIA POLE		13-0		5-0	3.0	9.0			14.0												RIGHT LANE ENDS (TEXT)
50.70 LT		W4-2	36 X 36	10-0		4 IN DIA POLE		13-0		5-0	3.0	9.0			14.0							1					RIGHT LANE ENDS
50.74 LT		W9-1	REMOVE																			1					REMOVE RIGHT LANE ENDS (TEXT)
51.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0	1					REFERENCE POST 51
51.31 RT		W1-13R W13-1	36 X 36 18 X 18	REPLACE SIGN FACE ONLY								9.0 2.3										1					TRUCK ROLLOVER ADVISORY SPEED 55 MPH



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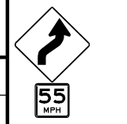
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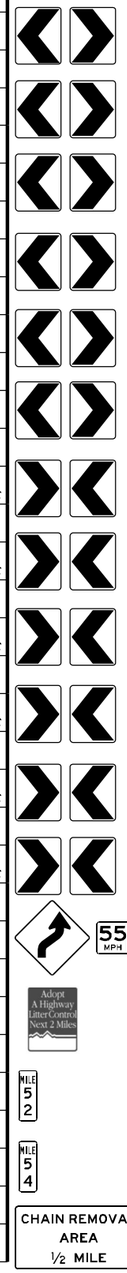
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51.38 RT		W1-4 W13-1	30 X 30 18 X 18	10-0		4 IN DIA POLE		13-1		5-7	3-0	6.3 2.3				14.0							1					RIGHT REVERSE CURVE ADVISORY SPEED 55 MPH
51.45 LT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (RIGHT) CHEVRON (LEFT) FACES WB TRAFFIC
51.48 LT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (RIGHT) CHEVRON (LEFT) FACES WB TRAFFIC
51.51 LT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (RIGHT) CHEVRON (LEFT) FACES WB TRAFFIC
51.54 LT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (RIGHT) CHEVRON (LEFT) FACES WB TRAFFIC
51.57 LT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (RIGHT) CHEVRON (LEFT) FACES WB TRAFFIC
51.60 LT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (RIGHT) CHEVRON (LEFT) FACES WB TRAFFIC
51.65 RT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (LEFT) CHEVRON (RIGHT) FACES WB TRAFFIC
51.68 RT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (LEFT) CHEVRON (RIGHT) FACES WB TRAFFIC
51.71 RT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (LEFT) CHEVRON (RIGHT) FACES WB TRAFFIC
51.74 RT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (LEFT) CHEVRON (RIGHT) FACES WB TRAFFIC
51.77 RT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (LEFT) CHEVRON (RIGHT) FACES WB TRAFFIC
51.80 RT		W1-8 W1-8	24 X 30 24 X 30	10-0		5 IN DIA POLE		12-6		5-0	3-0	5.0 5.0					14.0				X	1					CHEVRON (LEFT) CHEVRON (RIGHT) FACES WB TRAFFIC
51.83 LT		W1-4 W13-1	30 X 30 18 X 18	12-0		4 IN DIA POLE		13-1		5-7	3-0	6.3 2.3				14.0							1					RIGHT REVERSE CURVE ADVISORY SPEED 55 MPH
51.99 RT		N7-1	RESET	20-0						5-7														1				ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES
52.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9								20.0		1					REFERENCE POST 52
53.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9								20.0		1					REFERENCE POST 53
53.10 RT		IS9-1	78 X 42	REPLACE SIGN FACE ONLY									22.8									BBR			1		CHAIN REMOVAL AREA ½ MILE





CHAIN REMOVAL AREA ½ MILE

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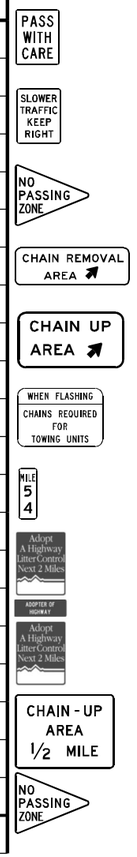
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AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

STATION	RAMP NO.	SIGN NO.	PANEL SIZE	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	FEET: 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 TYPE XI	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT TYPE XI	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 3" TOP DIA.	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
53.37 RT		R4-2	24 X 30	10-0		4 IN DIA POLE		12-6		5-0	3-0	5.0				14.0						1					PASS WITH CARE
53.37 LT		R4-3	24 X 30	10-0		4 IN DIA POLE		12-6		5-0	3-0	5.0				14.0						1					SLOWER TRAFFIC KEEP RIGHT
53.47 RT		W14-3	48 X 48 X 36	10-0		4 IN DIA POLE		13-0		5-0	3-0	5.5				14.0						1					NO PASSING ZONE
53.47 RT		1S10-1	78 X 30	REPLACE SIGN FACE ONLY									16.3											1		BBR	CHAIN REMOVAL AREA
53.63 LT		1S12-1	60 X 30	REPLACE SIGN FACE ONLY									12.5											1		BBR	CHAIN-UP AREA
53.79 LT		R3T-53	96 X 66	REPLACE SIGN FACE ONLY									44.0											1		BBR	WHEN FLASHING CHAINS REQUIRED FOR TOWING UNITS
54.00 RT		D10-2 D10-2	10 X 27 10 X 27	4-0		2# STL U POST		10-0		4-0	3-0	1.9 1.9									20.0	1					REFERENCE POST 54
54.00 RT		N7-1P	RESET	20-0						5-1													1				ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES IN MEMORY OF JOE BEAR SR.
54.00 LT		N7-1	RESET	20-0						5-1													1				ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES
54.10 LT		1S12-13	60 X 42	REPLACE SIGN FACE ONLY									17.5											1		BBR	CHAIN-UP AREA ½ MILE
54.57 LT		W14-3	48 X 48 X 36	10-0		4 IN DIA POLE		13-0		5-0	3-0	5.5				14.0						1					NO PASSING ZONE
ALL SHEET TOTALS												398.6	283.2			434	168				240.0	57	9	12			



ADOPT-A-HIGHWAY SIGNING

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 TRFFIC & SAFETY BUREAU SIGNING SECTION WITH CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

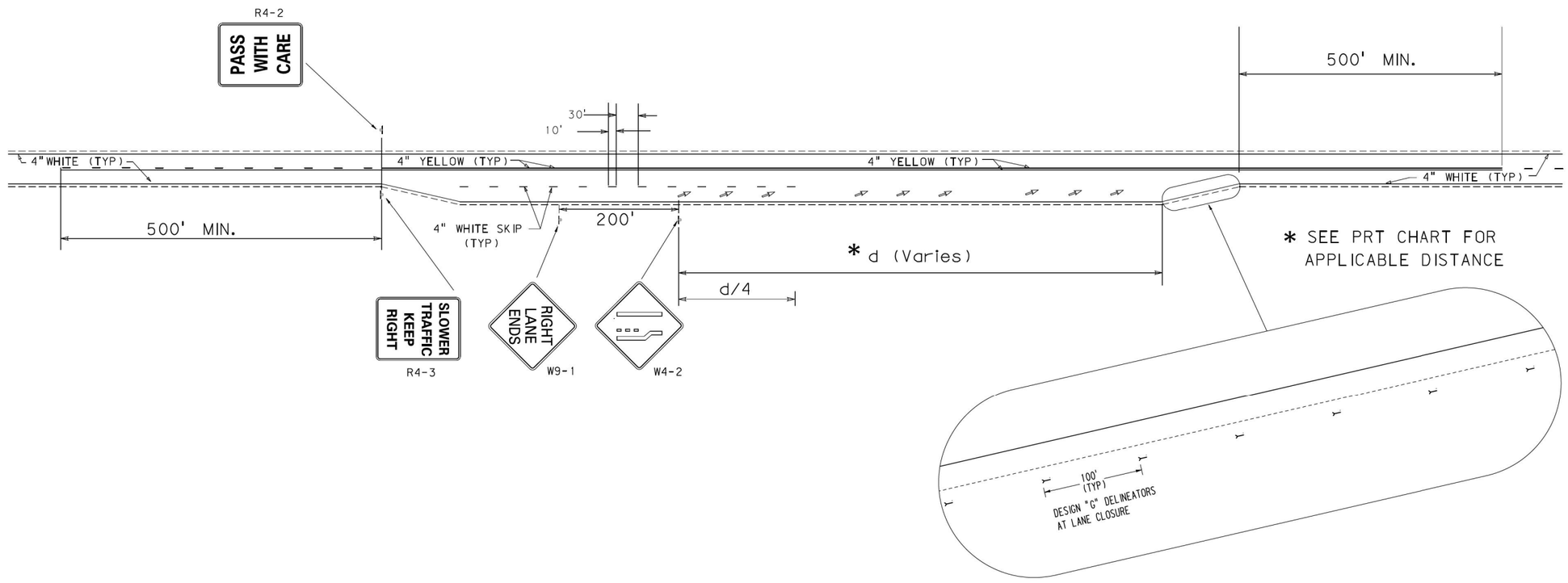
MOUNTING HEIGHT REQUIREMENTS: MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAIL DRAWINGS 619-00 & 619-08.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

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

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

TYPICAL CLIMBING LANE
PAVEMENT MARKINGS
NOT TO SCALE

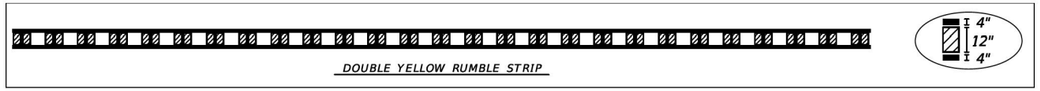


3 2	MONTANA Department of Transportation	02/15/23	DESIGNED BY SAP REVIEWED BY IDM CHECKED BY IDM	CLIMBING LANE DETAIL ROSEBUD COUNTY		LAME DEER - EAST	NH-HSIP 37-2(46)42 UPN# 9936000	S7

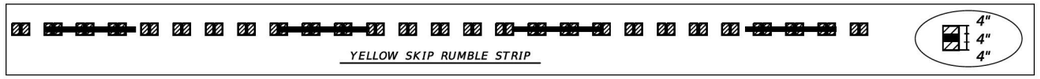
AWARD COPY

DETAILS

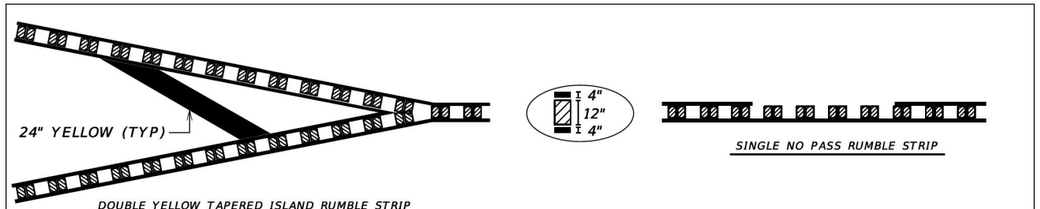
TYPICAL CENTERLINE RUMBLE STRIP DETAILS



DOUBLE YELLOW RUMBLE STRIP

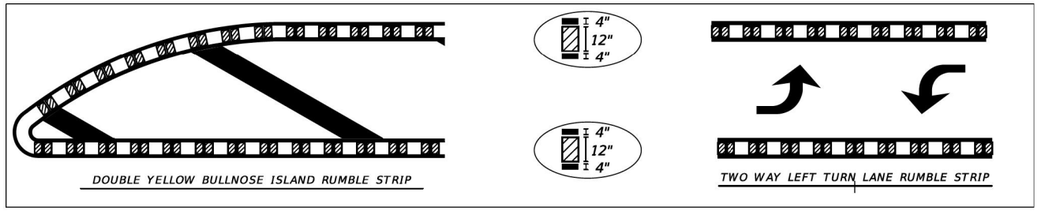


YELLOW SKIP RUMBLE STRIP



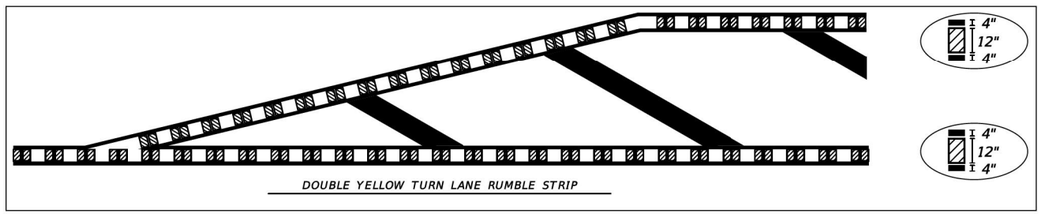
DOUBLE YELLOW TAPERED ISLAND RUMBLE STRIP

SINGLE NO PASS RUMBLE STRIP

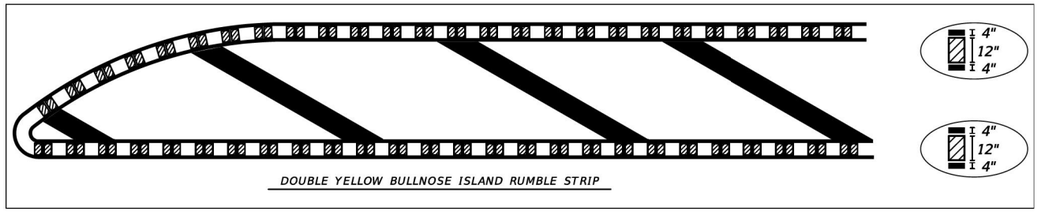


DOUBLE YELLOW BULLNOSE ISLAND RUMBLE STRIP

TWO WAY LEFT TURN LANE RUMBLE STRIP



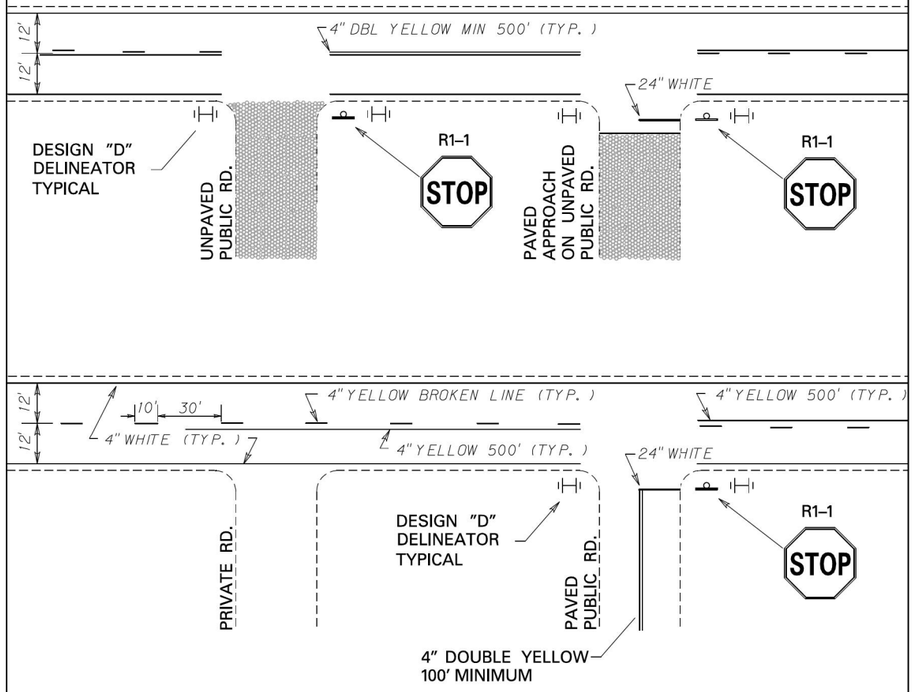
DOUBLE YELLOW TURN LANE RUMBLE STRIP



DOUBLE YELLOW BULLNOSE ISLAND RUMBLE STRIP

TYPICAL 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 2	MONTANA Department of Transportation	02/14/23	DESIGNED BY SAP REVIEWED BY IDM CHECKED BY IDM	TYPICAL PAVEMENT MARKING DETAIL ROSEBUD COUNTY		LAME DEER - EAST	NH-HSIP 37-2(46)42 UPN# 9936000 S8