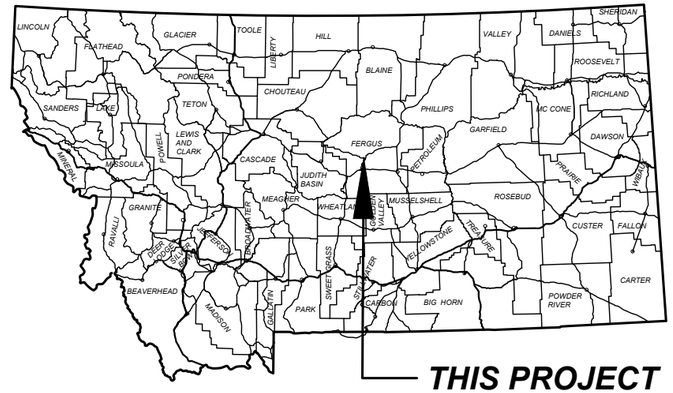
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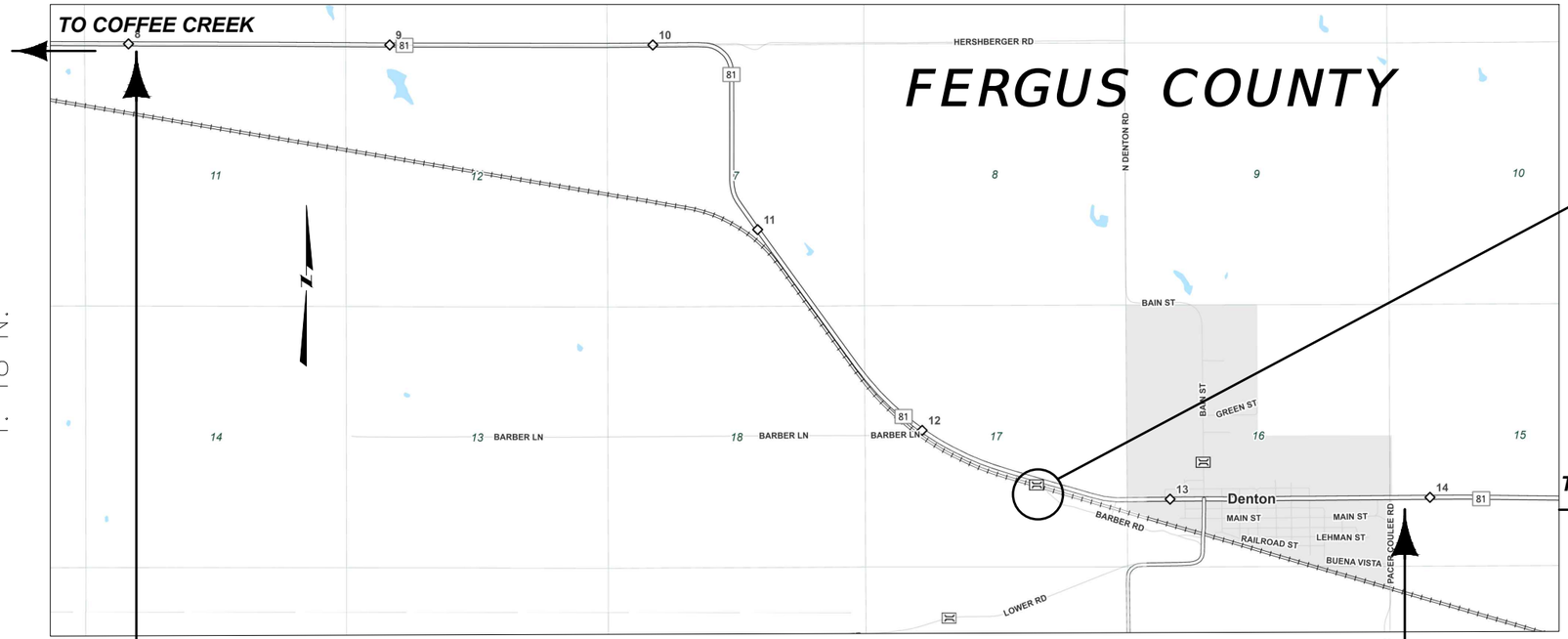


MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPP 81-1(38)8
SCRUB SEAL, OVERLAY, SEAL AND COVER
DENTON - E & W
FERGUS COUNTY

LENGTH 5.8 MILES

PROJECT DESIGN DATA			
PRESENT	2021	A.A.D.T. =	350
LETTING	2023	A.A.D.T. =	350
DESIGN	2043	A.A.D.T. =	430
		D.H.V. =	50
		TRUCKS =	17.9%
		V. =	55 MPH
		18 KIP ESAL'S =	28 DAILY
		ANNUAL GROWTH RATE =	1.0%



STA. 661+54.24
35.33' x 115.58'BRIDGE
NOT THIS CONTRACT

RP 12.533
NBI # 000000202206208
MDT STRUCTURE ID # 06208

SURFACING SOURCES - CONTRACTOR FURNISHED

STA. 423+84.66 ON STPIP 81-1(30)0=
STA. 423+84.66 BEG. STPP 81-1(38)

RP 8.0 TO RP 13.8
THIS CONTRACT

STA. 1729+00.00 END STPP 81-1(38)8=
STA. 1729+00.00 S-RS-342(10)

MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:
HIGHWAYS ENGINEER

MONTANA
DAVID HOLIEN
20186PE
LICENSED PROFESSIONAL ENGINEER

Signed by: David Holien
4351D89326494E2...
5/15/2025
DATE

SHEET NO.
1

TITLE SHEET

PROJECT NAME	DENTON - E & W
COUNTY	FERGUS COUNTY
PROJECT ID	STPP 81-1(38)8
UPN	9969000

DESIGNED BY	B. HENDERSON	9/27/2021	
REVIEWED BY	J. BROTZLER	5/18/2023	
CHECKED BY	J. SOLIDAY	2/20/2025	9969000RDTTL001.DWG

MONTANA
Department of Transportation

PLANS

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END OF OVERLAY TAPER MILL	10

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3625 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 4167 LBS. PER CUBIC YARD
ASPHALT BINDER - GRADE S - 3/4" AGG.	= 5.4% 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

EQUIPMENT HOURS

RESHAPE EXISTING MATERIAL ON GRAVEL SURFACED APPROACHES TO MATCH GRADE OF NEW PLANT MIX APRON. WORK PERFORMED IS PAID SEPARATELY AT THE UNIT PRICE BID PER HOUR FOR MOTOR GRADER AS DIRECTED BY THE PROJECT MANAGER.

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.

PAVEMENT MARKINGS

EXISTING PAVEMENT MARKINGS ARE IN THE FINAL LOCATION UNLESS ADJUSTED BY THE PROJECT MANAGER. REPLACE ALL STRIPING IN ORIGINAL LOCATIONS.

AS-BUILTS

STPIP 81-1(30)0
S-RS-342(10)

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

NOTES

MONTANA
Department of Transportation

PLANS

DESIGNED BY	B. HENDERSON	9/27/2021	
REVIEWED BY	J. BROTZLER	5/18/2023	
CHECKED BY	J. SOLIDAY	2/20/2025	

PROJECT NAME: DENTON - E & W
COUNTY: FERGUS COUNTY
PROJECT ID: STPP 81-1(38)8
UPN: 9969000

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NOTES

APPROACHES (FOR INFORMATION ONLY)

STATION	TYPE	linear feet				EXISTING SURFACING	PROPOSED SURFACE	feet	tons		feet	cu. yards	tons	gallons	REMARKS
		WIDTH	RADIUS #		LENGTH			PLANT MIX DEPTH	PLANT MIX BIT. SURF. - GRADE S-3/4"	PLANT MIX BIT. SURF. - MISC.	CRUSHED AGG. COURSE DEPTH	CRUSHED AGG. COURSE	ASPHALT BINDER 58H-34	EMULS. ASPHALT TACK	
			LEFT	RIGHT											
444+37	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
446+64	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
472+45	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
472+48	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
492+11	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
499+80	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
506+49	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
519+64	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
523+40	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
529+68	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
541+30	FARM FIELD	40	60	150	12	GRAVEL	12" PMS & CAC TO ROW	0.20		16	0.5	22	0.9	6	LT
547+15	FARM FIELD	NA	NA	NA	NA	PMS	REPLACE IN KIND	0.15		11			0.6	6	LT, TURNOUT
555+85	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
555+85	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
563+86	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
563+86	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
569+62	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	RT
569+95	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
594+66	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
616+29	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
663+71	FARM FIELD	24	25	25	36	PMS	PMS & CAC TO LENGTH	0.15							RECONSTRUCTED WITH WOLF CREEK BRIDGE - DENTON
637+32	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
652+08	FARM FIELD	24	25	25	12	PMS	PMS & CAC TO LENGTH	0.15		6			0.3	3	LT
685+49	FARM FIELD	24	25	25	50	GRAVEL	PMS & CAC TO LENGTH	0.20		9	0.5	12	0.5	3	LT
687+63	FARM FIELD	24	25	25	12	GRAVEL	3' PAVEMENT STRIP	0.15		3			0.2	2	LT
SUBTOTAL	FARM FIELD									159		34	8.2	77	
507+72	PRIVATE	15	25	25	46	GRAVEL	PMS & CAC TO ROW	0.20		16	0.5	24	0.9	6	RECONSTRUCTED WITH WOLF CREEK BRIDGE - DENTON
677+43	PRIVATE	24	45	50	70	GRAVEL	PMS & CAC TO ROW	0.20		51	0.5	70	2.8	19	RT
677+66	PRIVATE	15	25	40	75	GRAVEL	PMS & CAC TO ROW	0.20		25	0.5	37	1.4	10	LT
681+14	PRIVATE	14	12	25	70	GRAVEL	PMS & CAC TO ROW	0.20		19	0.5	30	1.0	8	LT
682+02	PRIVATE	30	25	25	38	GRAVEL	PMS & CAC TO LENGTH	0.20		23	0.5	32	1.2	9	RT
683+42	PRIVATE	30	25	25	38	GRAVEL	PMS & CAC TO LENGTH	0.20		23	0.5	32	1.2	9	RT
684+91	PRIVATE	30	25	25	38	GRAVEL	PMS & CAC TO LENGTH	0.20		23	0.5	32	1.2	9	RT
689+30	PRIVATE	15	NA	NA	20	GRAVEL	3' PAVEMENT STRIP	0.20		4			0.2	2	LT
SUBTOTAL	PRIVATE									168		257	9.0	72	
636+87	PUBLIC	30	65	20	20	PMS	PMS & CAC TO ROW	0.2	30		0.6	52	1.6	11	RT
SUBTOTAL	PUBLIC								30			52	1.6	11	

ALL RADII MEASURED TO FRONT OF GUTTER OR EDGE OF SHOULDER
M.O.C. - MEASURED ON CAD

SHEET NO. 3

NOTES

PROJECT NAME: DENTON - E & W
COUNTY: FERGUS COUNTY
PROJECT ID: STPP 81-1(38)8
UPN: 9969000

DESIGNED BY	DATE
B. HENDERSON	9/27/2021
REVIEWED BY	5/18/2023
J. BROTZLER	
CHECKED BY	2/20/2025
J. SOLIDAY	

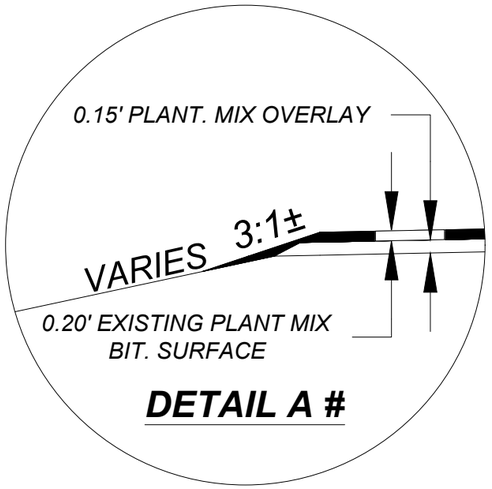
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MONTANA Department of Transportation

PLANS

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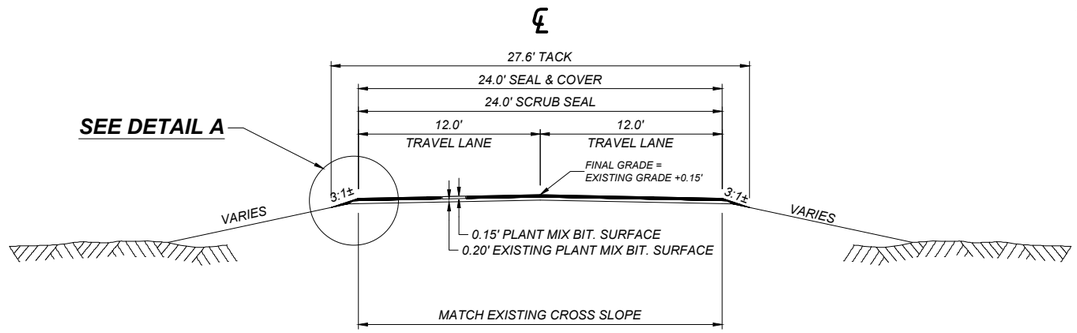
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IN AREAS WHERE THE EXISTING SURFACING IS NOT WIDE ENOUGH TO SUPPORT THE NEW TYPICAL SURFACING, USE PLANT MIX SURFACING AS SHOWN TO SUPPORT NEW PLANT MIX SURFACING.

TYPICAL SECTION NO. 1

MAINLINE



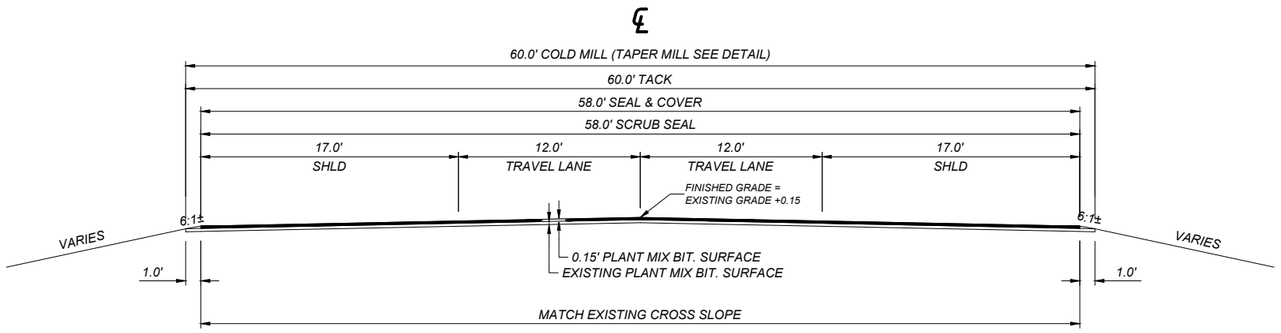
QUANTITIES								
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	SCRUB SEAL COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	SCRUB SEAL EMULSION	EMULSIFIED ASPHALT TACK*
AREA square feet			3.87	square yards PER STATION		267	267	307
cubic yards PER STATION			14.3	tons PER STATION	1.61	0.48	0.48	
tons PER STATION			29.8	gals. PER STATION				15
square yards PER STATION	267	267						

* BASED ON 1 APPLICATION

422+84.66		TO 592+00.00	
592+00.00	BK	TO 593+00.00	AH EQUATION
593+00.00		TO 654+31.90	
654+31.90	BK	TO 654+47.00	AH EQUATION
654+47.00		TO 658+11.60	THEN TO TYP. NO. 6
664+14.70		TO 687+00.00	
687+00.00		TO 687+62.00	
687+62.00	BK	TO 1687+62.00	AH EQUATION
1687+62.00		TO 1688+50.00	TRANS. TYP. NO. 1 TO TYP. NO. 2

TYPICAL SECTION NO. 2

MAINLINE



QUANTITIES								
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	SCRUB SEAL COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	SCRUB SEAL EMULSION	EMULSIFIED ASPHALT TACK*
AREA square feet			8.84	square yards PER STATION		644	644	667
cubic yards PER STATION			32.7	tons PER STATION	3.68	1.15	1.15	
tons PER STATION			68.1	gals. PER STATION				33
square yards PER STATION	644	644						

* BASED ON 1 APPLICATION

1688+50.00			ONLY
1688+50.00		TO 1691+00.00	TRANS. TYP. NO. 2 TO TYP. NO. 3

SHEET NO. 4

TYPICAL SECTIONS

PROJECT NAME: DENTON - E & W

COUNTY: FERGUS COUNTY

PROJECT ID: STPP 81-1(38)8

UPN: 9969000

DESIGNED BY	B. HENDERSON	9/27/2021
REVIEWED BY	J. BROTZLER	5/18/2023
CHECKED BY	J. SOLIDAY	2/20/2025

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MONTANA Department of Transportation

PLANS

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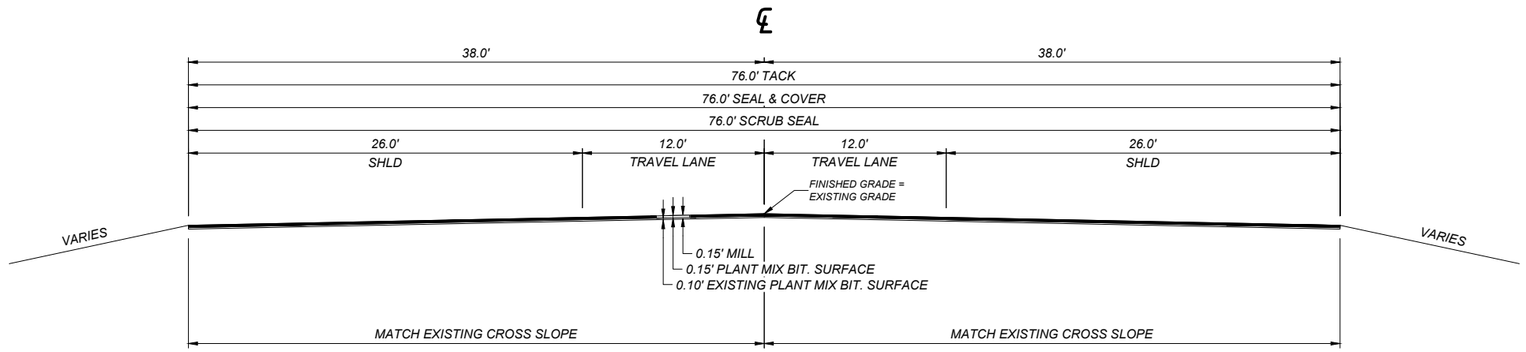
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AWARD COPY

1691+00.00 ONLY

TYPICAL SECTION NO. 3

MAINLINE



QUANTITIES								
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	SCRUB SEAL COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	SCRUB SEAL EMULSION	EMULSIFIED ASPHALT TACK*
AREA square feet			11.40	square yards PER STATION		844	844	844
cubic yards PER STATION			42.2	tons PER STATION	4.75	1.51	1.51	
tons PER STATION			87.9	gals. PER STATION				42
square yards PER STATION	844	844						

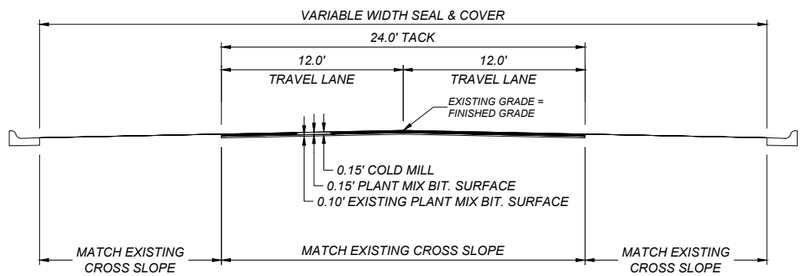
* BASED ON 1 APPLICATION

1691+00.00 TO 1725+00.00

1725+00.00 TO 1729+00.00 TRANS. TYP. NO. 4 TO TYP. NO. 5

TYPICAL SECTION NO. 4

MAINLINE



QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			COLD MILLING
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		3.60	square yards PER STATION		#	267	267
cubic yards PER STATION		13.3	tons PER STATION	1.50	#		
tons PER STATION		27.7	gals. PER STATION			13	
square yards PER STATION	#						

* BASED ON 1 APPLICATION

SEE SURFACING SUMMARY FOR QUANTITIES. QUANTITIES MEASURED ON CAD.

SHEET NO. 5

TYPICAL SECTIONS

PROJECT NAME DENTON - E & W

COUNTY FERGUS COUNTY

PROJECT ID STPP 81-1(38)8

UPN 9969000

DESIGNED BY	9/27/2021
B. HENDERSON	
REVIEWED BY	5/18/2023
J. BROTZLER	
CHECKED BY	2/20/2025
J. SOLIDAY	

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MONTANA Department of Transportation

PLANS

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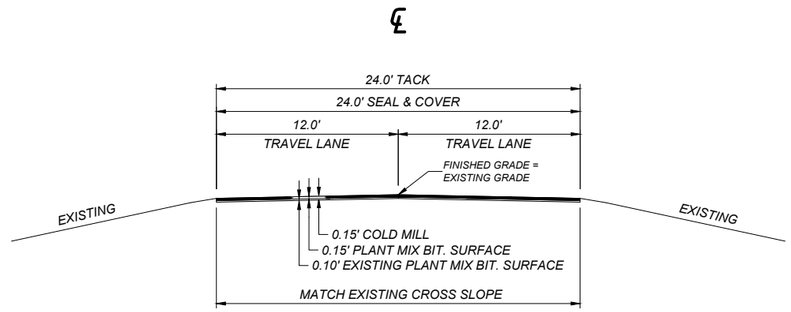
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1729+00.00 ONLY

TYPICAL SECTION NO. 5

MAINLINE



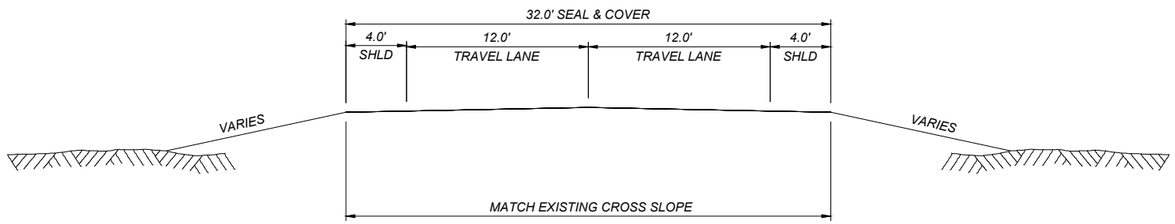
QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			COLD MILLING
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		3.60	square yards PER STATION		267	267	267
cubic yards PER STATION		13.3	tons PER STATION	1.50	0.48		
tons PER STATION		27.7	gals. PER STATION			13	
square yards PER STATION	267						

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 6

MAINLINE

658+11.60 TO 660+96.14 BE
662+11.72 BE TO 664+14.70 THEN TO TYP. NO. 1



QUANTITIES						
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL			
	COVER		EMULSIFIED ASPHALT SEAL			
AREA square feet		square yards PER STATION	356			
cubic yards PER STATION		tons PER STATION	0.64			
tons PER STATION		gals. PER STATION				
square yards PER STATION	356					

* BASED ON 1 APPLICATION

SHEET NO. 6

TYPICAL SECTIONS

PROJECT NAME: **DENTON - E & W**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **STPP 81-1(38)8**
UPN: **9969000**

DESIGNED BY	B. HENDERSON	9/27/2021
REVIEWED BY	J. BROTZLER	5/18/2023
CHECKED BY	J. SOLIDAY	2/20/2025

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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 sq. yards COVER TYPE 1 (SCRUB SEAL)	AGGREGATE tons PLANT MIX BIT. SURF. - GRADE S-3/4"	AGGREGATE tons PLANT MIX BIT. SURF. - MISC	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL tons ASPHALT BINDER 58H-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	REMARKS
422+84.66																	
592+00.00 B.K.	593+00.00 A.H.				100.00	EQUATION											
654+31.90 B.K.	654+47.00 A.H.				15.10	EQUATION											
	658+11.60	23,526.94	23,411.84					62,510	62,510	6,977			376.9	112.4	112.4	3,512	TYP. NO. 1
658+11.60	660+96.14 BE	284.54	284.54			WOLF CREEK BR. - DENTON PROJ. BEG.		1,013						1.8			TYP. NO. 6
660+96.14 BE	662+11.72 BE	115.58			115.58	WOLF CREEK BR.											
662+11.72 BE	664+14.70	202.98	202.98			WOLF CREEK BR. - DENTON PROJ. END		723						1.3			TYP. NO. 6
664+14.70	687+00.00	2,285.30	2,285.30					6,102	6,102	681			36.8	11.0	11.0	343	TYP. NO. 1
687+00.00																	
687+62.00 B.K.	1687+62.00 A.H.				100,000.00	EQUATION											
	1688+50.00	100,150.00	150.00					683	683	73			4.0	1.2	1.2	36	TRANS. TYP. NO. 1 TO TYP. NO 2
1688+50.00	1691+00.00	250.00	250.00					1,860	1,860	195			10.5	3.3	3.3	94	TRANS. TYP. NO. 2 TO TYP. NO. 3
1691+00.00	1725+00.00	3,400.00	3,400.00					* 27,871		942			51.0	49.7		442	* TYP. NO. 4
1725+00.00	1729+00.00	400.00	400.00					* 2,178		111			6.0	3.9		52	* TRANS. TYP. NO. 4 TO TYP. NO. 5
						ADDITIONAL SURFACING		202		30	327	343	18.8	0.4		160	
TOTAL		130,615.34	30,384.66		100,230.68		131	103,142	71,155	9,009	327	343	504.0	185.0	127.9	4,639	

* MEASURED ON CAD

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 1	AGGREGATE sq. yards COVER TYPE 1 (SCRUB SEAL)	AGGREGATE tons PLANT MIX BIT. SURF. - GRADE S-3/4"	AGGREGATE tons PLANT MIX BIT. SURF. - MISC	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL tons ASPHALT BINDER 58H-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	REMARKS
						26 - FARM FIELD APPROACH					159	34	8.2			77	*
						8 - PRIVATE APPROACH					168	257	9.0			72	*
						1 - PUBLIC APPROACH		202		30		52	1.6	0.4		11	*
SUBTOTAL		~	~	~	~		~	202	~	30	327	343	18.8	0.4	~	160	

* MEASURED ON CAD

RUMBLE STRIPS

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	miles RUMBLE STRIPS CENTERLINE TYPE 1	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
422+84.66	660+96.14 BE	23,811.48	23,696.38		115.10	4.5	528	
662+11.72 BE	679+40.00	1,728.28	1,728.28			0.3	35	
SUBTOTAL						4.8	563	
TOTAL						4.8	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

COLD MILLING *

STATION FROM	STATION TO	sq. yards COLD MILLING 0.00 - 0.15 ft	sq. yards COLD MILLING 0.15 ft	REMARKS
422+84.66	423+84.66	281		PROJ. BEGIN TAPER MILL
657+11.60	658+11.60	281		WOLF CREEK BRIDGE PROJ. TAPER
664+14.70	665+14.70	281		WOLF CREEK BRIDGE PROJ. TAPER
1688+50.00	1691+00.00	1,889		TRANS. TYP. NO. 2 TO NO. 3
1691+00.00	1729+00.00		10,146	
SUBTOTAL		2,732	10,146	
TOTAL		12,878		

* SEE DETAILS

SHEET NO. 7

SUMMARY

PROJECT NAME: DENTON - E & W
COUNTY: FERGUS COUNTY
PROJECT ID: STPP 81-1(38)8
UPN: 9969000

DESIGNED BY	B. HENDERSON 9/27/2021
REVIEWED BY	J. BROTZLER 5/18/2023
CHECKED BY	J. SOLIDAY 2/20/2025

MONTANA Department of Transportation

PLANS

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SUMMARY

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	417		417
STRIPING - YELLOW PAINT	gallon	213		213
WORDS & SYMBOLS - WHITE PAINT	gallon	24		24
STRIPING - WHITE EPOXY	gallon		278	278
STRIPING - YELLOW EPOXY	gallon		142	142
WORDS & SYMBOLS - WHITE EPOXY	gallon		16	16
TEMPORARY STRIPING	linear feet			23,537
FINAL SWEEP AND BROOM	course mile			5.8

BASED ON 2 APPLICATIONS.

MANHOLES IN PLACE

STATION	each ADJUST MANHOLE	REMARKS
1698+90.00	1	
1702+50.00	1	
SUBTOTAL	**2**	
TOTAL	**2**	

EQUIPMENT

STATION FROM	STATION TO	hours MOTOR GRADER	REMARKS
423+84.66	658+11.61	25	LT. & RT., APPROACH SHAPING
664+14.69	691+00.00	10	LT. & RT., APPROACH SHAPING
TOTAL		35	

SHEET NO.
8

SUMMARY

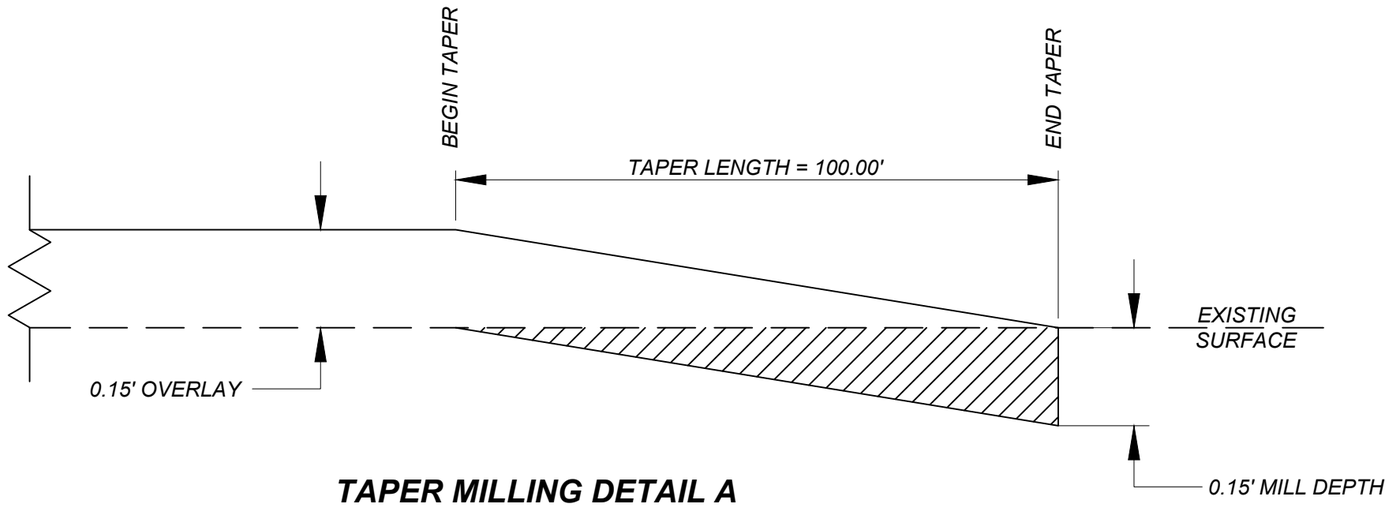
MONTANA Department of Transportation	DESIGNED BY	PROJECT NAME	DENTON - E & W
	B. HENDERSON 9/27/2021	COUNTY	FERGUS COUNTY
	REVIEWED BY		
	J. BROTZLER 5/18/2023	PROJECT ID	STPP 81-1(38)8
PLANS	CHECKED BY		
	J. SOLIDAY 2/20/2025	UPN	9969000
3/28/2025 1:06 PM	9969000RDSUM001.DWG		

Docusign Envelope ID: 5E951BDE-2C41-4765-90B7-0889663D65B5

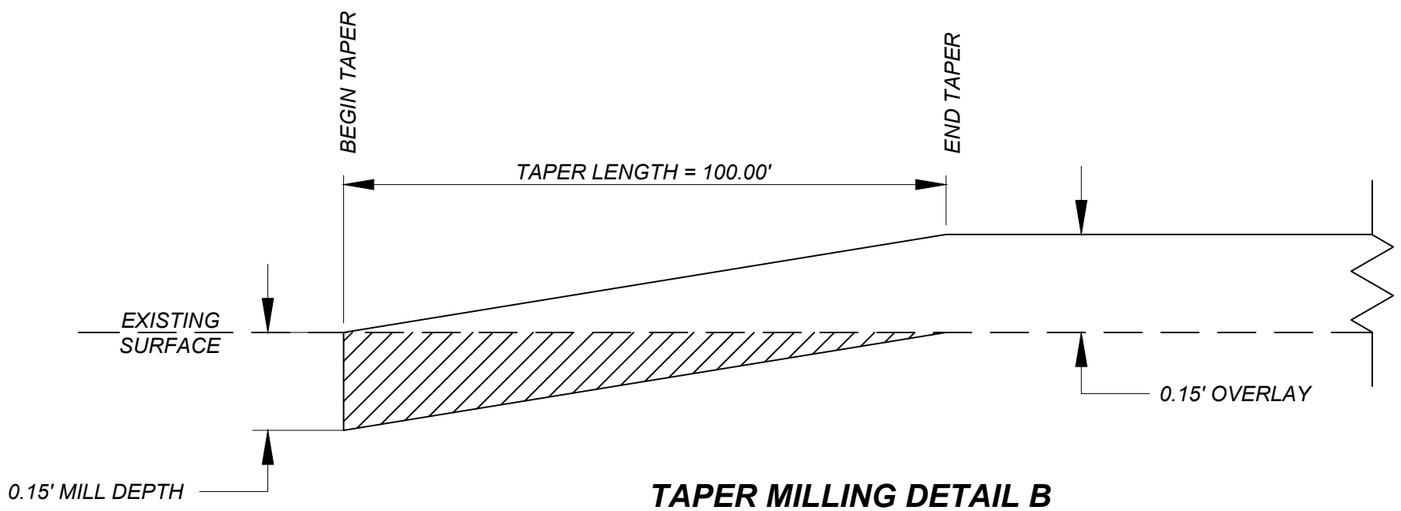
DETAIL

422+84.66	TO	423+84.66	TAPER MILLING DETAIL B; BEGIN PROJ.
657+11.60	TO	658+11.60	TAPER MILLING DETAIL A; BEGIN WOLF CREEK BRIDGE PROJ.
664+14.70	TO	665+14.70	TAPER MILLING DETAIL B; END WOLF CREEK BRIDGE PROJ.
688+50.00	TO	691+00.00	TAPER MILLING DETAIL A; END OF OVERLAY

TAPER MILL



TAPER MILLING DETAIL A



TAPER MILLING DETAIL B

SHEET NO. 9

TAPER MILLING (NO SCALE)

PROJECT NAME: DENTON - E & W
COUNTY: FERGUS COUNTY
PROJECT ID: STPP 81-1(38)8
UPN: 9969000

DESIGNED BY	B. HENDERSON	9/27/2021
REVIEWED BY	J. BROTZLER	5/18/2023
CHECKED BY	J. SOLIDAY	2/20/2025

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MONTANA Department of Transportation

PLANS

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DETAIL

TAPER MILL
AREA = 1,1889 S.Y.

SHEET NO.
10

END OF OVERLAY
TAPER MILL
(NO SCALE)

MONTANA
Department of Transportation

PLANS

PROJECT NAME	DENTON - E & W
COUNTY	FERGUS COUNTY
PROJECT ID	STPP 81-1(38)8
UPN	9969000

DESIGNED BY	B. HENDERSON 9/27/2021
REVIEWED BY	J. BROTZLER 5/18/2023
CHECKED BY	J. SOLIDAY 2/20/2025

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NOTES AND ABBREVIATIONS:

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

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

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

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

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

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

FY = FLUORESCENT YELLOW SHEETING REQUIRED

FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED

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

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

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

■ = FRANGIBLE SIGN POST. BREAKAWAY DEVICE REQUIRED.

AIR = ANGLE IRON REQUIRED 2 1/2" x 2 1/2" x 3/8" x 6'-4" (37 lbs.)

BBR = BACKBRACING REQUIRED:
- FOR WOOD POLE SEE DET. DWG 619-22
- FOR STEEL POST 2" X 2" X 1/4" REQUIRED. SEE DET. DWG 619-16
- FOR STRUCTURAL STEEL POST 2 3/4" X 2 3/8" EXTRUDED "T" SECTION BACKBRACE REQUIRED. SEE DET. DWG 619-19
- FOR CANTILEVER POST, SEE DET. DWG 619-18
- FOR GUIDE SIGN PANELS, USE EXTRUDED "T" SECTION BACKBRACE. SEE DET. DWG 619-04

USE HARDWARE MEETING REQUIREMENTS OF SECTION 704

BGR = BEHIND GUARDRAIL

MBB = MOUNT BACK TO BACK

RSFO = REPLACE SIGN FACE ONLY

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET XI	488.4	SQFT
REMOVE SIGN	56	EACH
REMOVE SIGN-GUIDE	2	EACH
POSTS-STEEL U SIGN	118	LB
POLES-TREATED WOOD 4 IN	164	LNFT
POLES-TREATED WOOD 5 IN	304	LNFT
DELINEATOR TYPE 1	197	EACH

DELINEATION SPECIFICATIONS

SYMBOL	DESIGN	TOTAL
⊣	A	153
⊢⊣	D	6
⊢	F	38

SHEET NO.
S1

SIGN SUMMARIES
NOTES AND ABBREVIATION

PROJECT NAME: DENTON - E&W
COUNTY: FERGUS
PROJECT ID: STPP 81-1(38)8
UPN: 9969000

DESIGNED BY: S.MORANO 03/2025
REVIEWED BY:
CHECKED BY: N.STYREN 03/2025

MONTANA Department of Transportation

SIGNING PLANS

3/13/2025 9:00 AM

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS						SIGN ASSEMBLY SPECIFICATIONS								SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET					CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	SIGN STATUS & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X Y Z					SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
423+30																																	
		X		D10-1	10 X 18			MBB		4.0	2.0lb Steel U Post		4.0	3.0	9.5					2.5							19		1				MILE 8	REPLACE FROM STA. 479+.52
476+10																																	
		X		N7-1 MT-1	36 X 48					20.0	5" Treated Wood Pole		5.08	3.5	17.0				X	12.0			18						1				ADOPT A HIGHWAY KEEP IT GREEN KEEP IT CLEAN	REPLACE FROM STA. 478+.52
				N7-1P MT-1	36 X 12															3.0												AMERICAN LEDGION POST #62	
476+10																																	
		X		D10-1	10 X 18			MBB		4.0	2.0lb Steel U Post		4.0	3.0	9.50					2.5							19		1				MILE 9	REPLACE FROM STA. 479+.52
478+05																																	
X				N7-1 MT-1	36 X 48					20.0	5" Treated Wood Pole		5.08	3.5	17.0				X	12.0			18						1				ADOPT A HIGHWAY KEEP IT GREEN KEEP IT CLEAN	REPLACE FROM STA. 478+52
				N7-1P MT-1	36 X 12															3.0												OLD LONSOME GEORGE	
529+38																																	
		X		D10-2	10 X 27			MBB		4.0	2.0lb Steel U Post		4.0	3.0	10.0					3.8							20		1				MILE 10	REPLACE
536+30																																	
		X		W1-2R	30 X 30	FY				10.0	4" Treated Wood Pole		5.0	3.0	13.8					6.3		14							1					REPLACE
				W13-1P	18 X 18	FY														2.3												45 MPH	
538+94																																	
X				W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X	10.0			14						1					REPLACE
540+26																																	
X				W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X	10.0			14						1					REPLACE
541+84																																	
X				W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X	10.0			14						1					REPLACE
543+16																																	
X				W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X	10.0			14						1					REPLACE
544+22																																	
X				W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X	10.0			14						1					REPLACE
545+28																																	
X				W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X	10.0			14						1					REPLACE

SHEET NO.
S2

SIGN LOCATION AND SPECIFICATION

PROJECT NAME DENTON - E&W
COUNTY FERGUS
PROJECT ID STPP 81-1(38)8
UPN 9969000
DESIGNED BY S.MORANO 03/2025
REVIEWED BY
CHECKED BY N.STYREN 03/2025
9969000SIGLM001.DWG

MONTANA Department of Transportation

SIGNING PLANS

3/13/2025 9:00 AM

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES														ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET		FEET					CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	SIGN STATUS & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
546+43																																		
X				W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X		10.0			14					1					REPLACE
547+40																																		
X				W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X		10.0			14					1					REPLACE
548+46																																		
X				W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X		10.0			14					1					REPLACE
551+89																																		
X				W1-2L	30 X 30	FY				10.0	4" Treated Wood Pole		5.0	3.0	13.8						6.3		14						1					REPLACE
				W13-1P	18 X 18	FY															2.3												
567+92																																		
	X			W1-2R	30 X 30	FY				10.0	4" Treated Wood Pole		5.0	3.0	13.8						6.3		14						1					REPLACE
				W13-1P	30 X 30	FY															6.3												
570+30																																		
	X			W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X		10.0			14					1					REPLACE
571+62																																		
	X			W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X		10.0			14					1					REPLACE
573+47																																		
	X			W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X		10.0			14					1					REPLACE
575+05																																		
	X			W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X		10.0			14					1					REPLACE
576+63																																		
	X			W1-8 (2x)	24 X 30	FY		MBB		10.0	5" Treated Wood Pole		5.0	3.5	12.33				X		10.0			14					1					REPLACE
578+74																																		
X				W1-2R	30 X 30	FY				10.0	4" Treated Wood Pole		5.0	3.0	13.8						6.3		14						1					REPLACE
				W13-1P	18 X 18	FY															2.3												

SHEET NO.
S3

SIGN LOCATION AND SPECIFICATION

PROJECT NAME: DENTON - E&W
COUNTY: FERGUS
PROJECT ID: STPP 81-1(38)8
UPN: 9969000

DESIGNED BY: S.MORANO 03/2025
REVIEWED BY:
CHECKED BY: N.STYREN 03/2025

9969000SISUM001.DWG

MONTANA Department of Transportation

SIGNING PLANS

3/13/2025 9:00 AM

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SIGN LOCATION			SIGN PANEL SPECIFICATIONS						SIGN ASSEMBLY SPECIFICATIONS								SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION		SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	SIGN STATUS & REMARKS
LFT	MDN	RGT	RAMP NO.		W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X Y Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
582+18																															
		X		N7-1 MT	36 X 48					20.0	5" Treated Wood Pole		5.08	3.5	16.7			X				18					1				ADOPT A HIGHWAY KEEP IT GREEN KEEP IT CLEAN	REPLACE FROM STA. 579+80
				N7-1P MT	36 X 12														3.0											GEORGE PETERSON MEMORIAL	
582+18																															
		X		D10-2	10 X 27			MBB		4.0	2.0lb Steel U Post		4.0	3.0	9.5				3.8						20		1				MILE 1 1	REPLACE
582+18																															
X				N7-1 MT-1	36 X 48					20.0	5" Treated Wood Pole		5.08	3.5	17.0			X	12.0			18					1				ADOPT A HIGHWAY KEEP IT GREEN KEEP IT CLEAN	REPLACE FROM STA. 584+82
				N7-1P MT-1	36 X 12														3.0											AMERICAN LEDGION POST #62	
634+98																															
		X		D10-2	10 X 27			MBB		4.0	2.0lb Steel U Post		4.0	3.0	9.5				3.8						20		1				MILE 1 2	REPLACE
636+25																															
		X		D3-1 (2x)	32 X 10			MBB		6.0	4" Treated Wood Pole		5.0	3.0	12.4				4.4		14						1				BARBER RD	REPLACE
				R1-1	30 X 30														5.2											STOP	
651+447																															
		X		W3-5																											45	"USE AS IS"
656+570																															
X				W14-3																											NO PASSING ZONE	"USE AS IS"
660+422																															
		X		N6-2																											WOLF CREEK	"USE AS IS"
661+106																															
X				N6-2																											WOLF CREEK	"USE AS IS"

SHEET NO.
S4

SIGN LOCATION AND SPECIFICATION

PROJECT NAME: DENTON - E&W
COUNTY: FERGUS
PROJECT ID: STPP 81-1(38)8
UPN: 9969000

DESIGNED BY: S.MORANO 03/2025
REVIEWED BY:
CHECKED BY: N.STYREN 03/2025

9969000SISUM001.DWG

MONTANA Department of Transportation

SIGNING PLANS

3/13/2025 9:00 AM

Docusign Envelope ID: 5E951BDE-2C41-4765-90B7-0889663D65B5

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS						SIGN ASSEMBLY SPECIFICATIONS									SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET		FEET					CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	SIGN STATUS & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
663+624																																	
		X		R1-1	30 X 30					6.0	4" Treated Wood Pole		5.0	3.0	11.6					5.2		12							1				STOP	USE AS IS
666.600				R2-1																												TRUCK SPEED LIMIT 65	"USE AS IS"
X																																	
668+237				W14-3																												NO PASSING ZONE	"USE AS IS"
		X																															
668+237				R2-1																												SPEED LIMIT 70	"USE AS IS"
X																																	
				R2-2aP																												NIGHT 65	
676.684				R1-1	30 X 30					6.0	4" Treated Wood Pole		5.0	3.0	11.6					5.2		12							1				STOP	REPLACE
		X																															
678+800				R2-1	24 X 30					10.0	4" Treated Wood Pole		5.0	3.0	12.4					5.0		14							1				SPEED LIMIT 35	REPLACE
		X																															
678+480				R2-1	24 X 30					10.0	4" Treated Wood Pole		5.0	3.0	12.4					5.0		14							1				SPEED LIMIT 45	REPLACE
X																																	
680+280				M3-4P	24 X 12					10.0	4" Treated Wood Pole		5.0	3.0	12.6					2.0		14							1				WEST	REPLACE
X																																MONTANA 81	
				M1-5	24 X 24															4.0													

SHEET NO.
S5

SIGN LOCATION AND SPECIFICATION

PROJECT NAME: DENTON - E&W
COUNTY: FERGUS
PROJECT ID: STPP 81-1(38)8
UPN: 9969000

DESIGNED BY: S.MORANO 03/2025
REVIEWED BY:
CHECKED BY: N.STYREN 03/2025

9969000SISUM001.DWG

MONTANA Department of Transportation

SIGNING PLANS

3/13/2025 9:00 AM

Docusign Envelope ID: 5E951BDE-2C41-4765-90B7-0889663D65B5

SIGN LOCATION				SIGN PANEL SPECIFICATIONS						SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	SIGN STATUS & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X Y Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
682+281																															
		X		N6-1	48 X 18		BBR			20.0	4" Treated Wood Pole		5.0	3.0	12.8					6.0		14							1			DENTON	REPLACE
684+552																															
X				N7-1 MT	36 X 48					20.0	5" Treated Wood Pole		5.0	3.5	17.0			X		12.0			18					1				REPLACE FROM STA. 685+04
				N7-1P MT	36 X 12															3.0											GEORGE PETERSON MEMORIAL	
686+030																															
		X		N7-1 MT	36 X 48					20.0	5" Treated Wood Pole		5.0	3.5	17.0			X		12.0			18					1				REPLACE FROM STA. 686+10
				N7-1P MT	36 X 12															3.0											DENTON LIONS CLUB	
686+640																															
		X		D10-2	10 X 27			MBB		4.0	2.0lb Steel U Post		4.0	3.0	9.2					3.8						20		1				MILE 13	REPLACE
687+772																															
		X		R2-1	24 X 30				RSFO											3.3								1			SPEED LIMIT 25	REPLACE SIGN FACE ONLY
688.308																															
X				R2-1	24 X 30				RSFO											3.3								1			SPEED LIMIT 35	REPLACE SIGN FACE ONLY
688+512																															
		X		USE AS IS																											YOUR SPEED	(YOUR SPEED) SIGN "USE AS IS"
690+096																															
X				R1-1	30 X 30				RSFO											5.2								1			STOP	REPLACE SIGN FACE ONLY

SHEET NO.
S6

SIGN LOCATION AND SPECIFICATION

PROJECT NAME DENTON - E&W
COUNTY FERGUS
PROJECT ID STPP 81-1(38)8
UPN 9969000

DESIGNED BY S.MORANO 03/2025
REVIEWED BY
CHECKED BY N.STYREN 03/2025

MONTANA Department of Transportation

SIGNING PLNS

3/13/2025 9:00 AM

9969000SISUM001.DWG

Docusign Envelope ID: 5E951BDE-2C41-4765-90B7-0889663D65B5

SIGN LOCATION				SIGN PANEL SPECIFICATIONS						SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	SIGN STATUS & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
690+782																																	
		X		D3-1 (2x)	42 X 10			MBB	RSFO												2.9									1				BROADWAY ST	REPLACE SIGN FACE ONLY
				D3-1 (2x)	32 X 10			MBB	RSFO												4.4													HELENA ST	REPLACE SIGN FACE ONLY
				R1-1	30 X 30				RSFO												5.2													STOP	REPLACE SIGN FACE ONLY
693+950																																	
X				D3-1 (2x)	42 X 10			MBB	RSFO												2.9									1				BROADWAY ST	REPLACE SIGN FACE ONLY
				D3-1 (2x)	42 X 10			MBB	RSFO												2.9													N DENTON RD	REPLACE SIGN FACE ONLY
				R1-1	30 X 30				RSFO												5.2													STOP	REPLACE SIGN FACE ONLY
694+531																																	
		X		D3-1 (2x)	42 X 10			MBB	RSFO												2.9									1				BROADWAY ST	REPLACE SIGN FACE ONLY
				D3-1 (2x)	24 X 10			MBB	RSFO												1.7													BAIN ST	REPLACE SIGN FACE ONLY
				R1-1	30 X 30				RSFO												5.2													STOP	REPLACE SIGN FACE ONLY
697+453																																	
X				R1-1	30 X 30				RSFO												5.2									1				STOP	REPLACE SIGN FACE ONLY
698+122																																	
		X		D3-1 (2x)	42 X 10			MBB	RSFO												2.9									1				BROADWAY ST	REPLACE SIGN FACE ONLY
				D3-1 (2x)	42 X 10			MBB	RSFO												2.9													KETCHNER ST	REPLACE SIGN FACE ONLY
				R1-1	30 X 30				RSFO												5.2													STOP	REPLACE SIGN FACE ONLY
700+87																																	
X				R1-1	30 X 30				RSFO												5.2									1				STOP	REPLACE SIGN FACE ONLY

SHEET NO.
S7

SIGN LOCATION AND SPECIFICATION

PROJECT NAME DENTON - E&W
COUNTY FERGUS
PROJECT ID STPP 81-1(38)8
UPN 9969000

DESIGNED BY S.MORANO 03/2025
REVIEWED BY
CHECKED BY N.STYREN 03/2025

MONTANA Department of Transportation

SIGNIG PLANS

3/13/2025 9:00 AM 9969000SISUM001.DWG

Docusign Envelope ID: 5E951BDE-2C41-4765-90B7-0889663D65B5

SIGN LOCATION				SIGN PANEL SPECIFICATIONS						SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	SIGN STATUS & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X Y Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
701+870																															
		X		D3-1 (2x)	42 X 10			MBB	RSFO										2.9								1				BROADWAY ST	REPLACE SIGN FACE ONLY
				D3-1 (2x)	32 X 10			MBB	RSFO										4.4												KNERR ST	REPLACE SIGN FACE ONLY
				R1-1	30 X 30				RSFO										5.2												STOP	REPLACE SIGN FACE ONLY
705+355																															
		X		D3-1 (2x)	42 X 10			MBB	RSFO										2.9								1				BROADWAY ST	REPLACE SIGN FACE ONLY
				D3-1 (2x)	42 X 10			MBB	RSFO										2.9												KIERSTEAD ST	REPLACE SIGN FACE ONLY
				R1-1	30 X 30				RSFO										5.2												STOP	REPLACE SIGN FACE ONLY
708+260																															
X				R1-1	30 30				RSFO																						STOP	REPLACE SIGN FACE ONLY
709+000																															
		X		D3-1 (2x)	42 X 10			MBB	RSFO										2.9								1				BROADWAY ST	REPLACE SIGN FACE ONLY
				D3-1 (2x)	30 X 10			MBB	RSFO										2.1												BOWER ST	REPLACE SIGN FACE ONLY
				R1-1	30 X 30				RSFO										5.2												STOP	REPLACE SIGN FACE ONLY
711+480																															
X				R1-1	30 X 30				RSFO										5.2								1				STOP	REPLACE SIGN FACE ONLY
712+061																															
		X		D3-1 (2x)	42 X 10			MBB	RSFO										2.9								1				BROADWAY ST	REPLACE SIGN FACE ONLY
				D3-1 (2x)	36 X 10			MBB	RSFO										2.5												N MILLER ST	REPLACE SIGN FACE ONLY
				R1-1	30 X 30				RSFO										5.2												STOP	REPLACE SIGN FACE ONLY

SHEET NO.
S8

SIGN LOCATION AND SPECIFICATION

PROJECT NAME DENTON - E&W
COUNTY FERGUS
PROJECT ID STPP 81-1(38)8
UPN 9969000

DESIGNED BY S.MORANO 03/2025
REVIEWED BY
CHECKED BY N.STYREN 03/2025
9969000SISUM001.DWG

MONTANA Department of Transportation

SIGNING PLANS

3/13/2025 9:00 AM

Docusign Envelope ID: 5E951BDE-2C41-4765-90B7-0889663D65B5

SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET		FEET								PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	SIGN STATUS & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
715+123																																
X				R1-1	30 X 30				RSFO											5.2									1					REPLACE SIGN FACE ONLY
				"USE AS IS"																													(YOUR SPEED) SIGN "USE AS IS"
715+704																																
		X		D3-1 (2x)	42 X 10			MBB	RSFO											2.9									1					REPLACE SIGN FACE ONLY
				D3-1 (2x)	36 X 10			MBB	RSFO											2.5														REPLACE SIGN FACE ONLY
				R1-1	30 X 30				RSFO											5.2														REPLACE SIGN FACE ONLY
716+020																																
X				R2-1	24 X 30				RSFO											5.0									1					REPLACE SIGN FACE ONLY
716+500																																
		X		R2-1	24 X 30				RSFO											5.0									1					REPLACE SIGN FACE ONLY
723+994																																
		X		R2-1	24 X 30				RSFO											5.0									1					REPLACE SIGN FACE ONLY
723+994																																
X				R2-1	24 X 30				RSFO											5.0									1					REPLACE SIGN FACE ONLY
PROJECT TOTALS																				488.4		164	304				118		56	2			

SHEET NO.
S9

SIGN LOCATION AND SPECIFICATION

PROJECT NAME DENTON - E&W
COUNTY FERGUS
PROJECT ID STPP 81-1(38)8
UPN 9969000

DESIGNED BY S.MORANO 03/2025
REVIEWED BY
CHECKED BY N.STYREN 03/2025

MONTANA Department of Transportation

SIGNING PLANS

3/13/2025 9:00 AM 9969000SISUM001.DWG