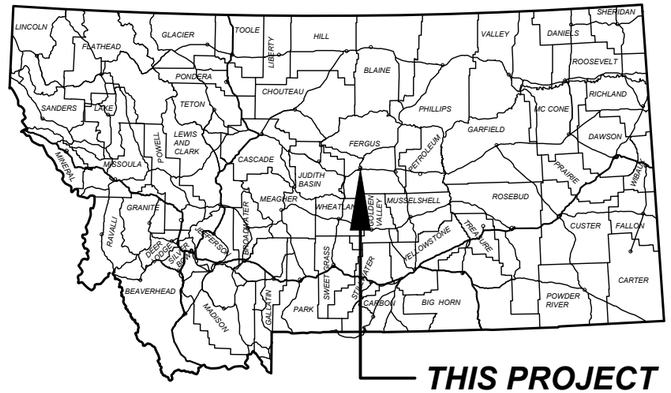
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT UPP 7103(5)

SCRUB SEAL, OVERLAY, SEAL & COVER

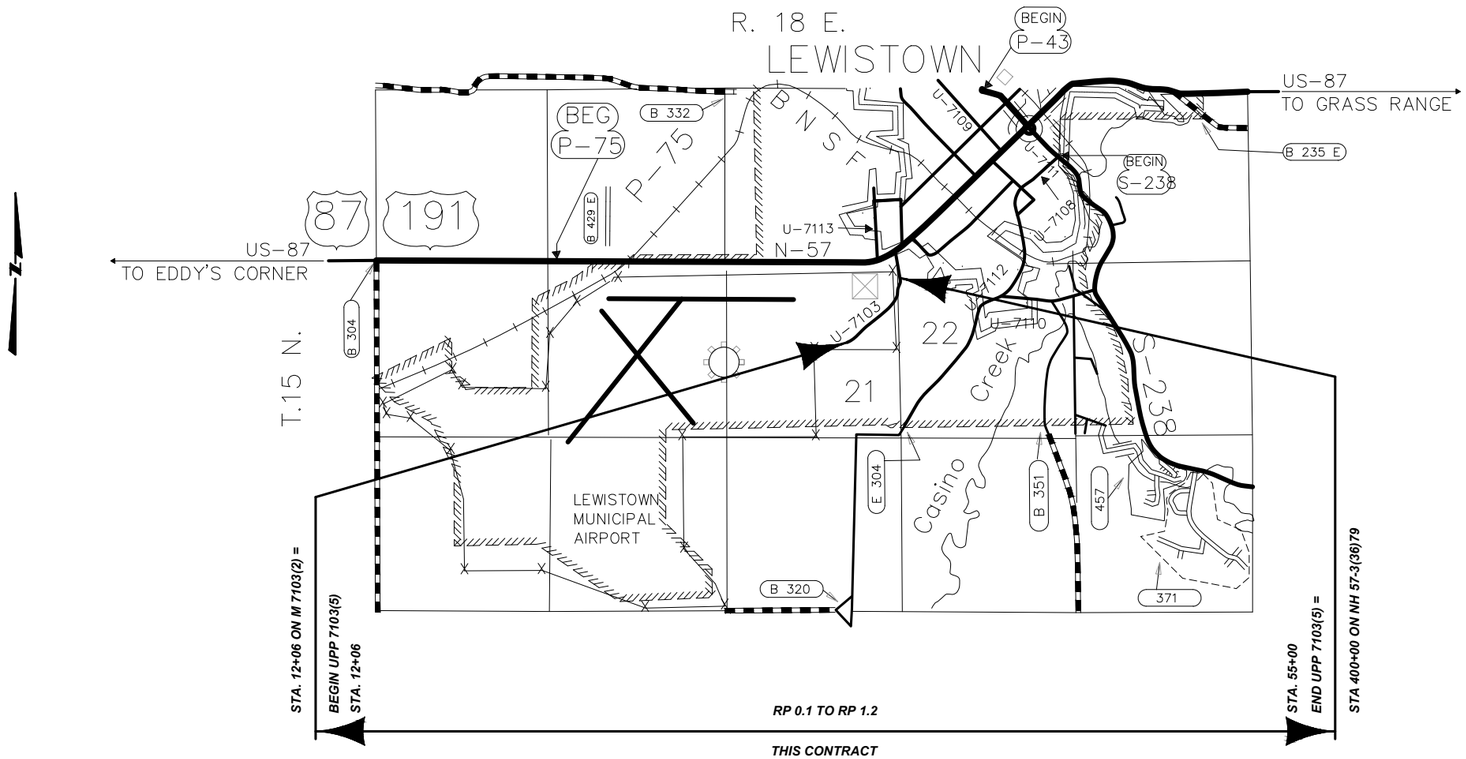
AIRPORT ROAD - LEWISTOWN

FERGUS COUNTY

LENGTH 1.1 MILES

PROJECT DESIGN DATA			
PRESENT	2023	A.D.T. =	660
LETTING	2024	A.D.T. =	670
DESIGN	2044	A.D.T. =	810
		D.H.V. =	90
		TRUCKS =	3.4%
		V. =	30 MPH
		18 KIP ESAL'S =	8
		GROWTH RATE =	1.0%

SURFACING SOURCES –
CONTRACTOR FURNISHED



SHEET NO. 1

TITLE SHEET

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS COUNTY
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY		
C. DICK	10/20/23	
REVIEWED BY		
K. SHUCK	9/30/22	
CHECKED BY		
T. JOHNSON	11/15/23	

MONTANA
Department of Transportation

ROAD PLANS

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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
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - TACK (CONCRETE SURFACES)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (S & C)	= 0.075 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
SCRUB SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECTS:

M 7103(2) (WIDENING & SURFACING - 1981)
NH 57-3(36)79 (RECONSTRUCTION OF INTERSECTION WITH N-57)

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

STATIONING - REFERENCE POSTS

STATIONING ON THIS PROJECT INCREASES FROM SOUTH TO NORTH. REFERENCE POSTS INCREASE FROM NORTH TO SOUTH.

APPROACHES (FOR INFORMATION ONLY)

STATION	TYPE	linear feet: WIDTH ^	linear feet: RADIUS #^ LEFT	linear feet: RADIUS #^ RIGHT	linear feet: LENGTH ^	square feet: SURFACE AREA ^	EXISTING SURFACING	feet: PMS THK.	PROPOSED SURFACE	tons: COMMERCIAL MIX PG 58V-34	tons: COMMERCIAL PLANT MIX - MISC	gallons: EMULS. ASPHALT TACK	REMARKS
12+21 BK	PUBLIC	20	0	30	37.0	928	PLANT MIX	0.15	MILL & PAVE TO R/W		11	5	LT. BONANZA AVE.
12+26 BK	PUBLIC	20	30	5	37.0	934	PLANT MIX	0.15	MILL & PAVE TO R/W		11	5	RT. BONANZA AVE.
15+42 BK	PRIVATE	20	25	25	12.0	478	GRAVEL	0.15	12' PLANT MIX STRIP		6	3	RT.
7+26 AH	PRIVATE	14	15	15	12.0	264	PLANT MIX	0.15	12' PLANT MIX STRIP		3	1	LT.
8+06 AH	PRIVATE	22	10	25	37.0	967	PLANT MIX	0.15	PAVE TO R/W		11	5	LT.
11+61 AH	FARM FIELD	12	20	20	3.0	113	PLANT MIX STRIP	0.15	3' PLANT MIX STRIP		1	1	RT.
13+99 AH	PRIVATE	24	25	25	37.0	1150	PLANT MIX	0.15	PAVE TO R/W		13	6	LT. SKYLINE DR.
14+57 AH	PRIVATE	24	25	15	39.0	1139	PLANT MIX	0.15	PAVE TO R/W		13	6	RT. MT. ARMY NAT. GUARD
16+29 AH	PUBLIC	32	40	20	42.0	1851	PLANT MIX	0.15	MILL & PAVE TO R/W		21	10	RT. ARMORY RD.
17+92 AH	PRIVATE	28	25	10	37.0	1166	PLANT MIX	0.15	PAVE TO R/W		13	6	RT.
20+16 AH	PRIVATE	24	35	20	37.0	1199	PLANT MIX	0.15	PAVE TO R/W		14	7	RT. BUFFALO BERRY TR.
23+22 AH	PRIVATE	26	15	20	37.0	1090	GRAVEL	0.15	PAVE TO R/W		13	6	LT. D'AUTREMONT COMPLEX PARKING LOT
26+74 AH	FARM FIELD	12	15	15	3.0	89	PLANT MIX STRIP	0.15	3' PLANT MIX STRIP		1	1	RT.
26+85 AH	PRIVATE	16	25	25	37.0	859	PLANT MIX	0.15	PAVE TO R/W		10	5	LT.
33+92 AH	PRIVATE	12	15	15	12.0	240	PLANT MIX STRIP	0.15	12' PLANT MIX STRIP		3	1	RT.
42+71 AH	PUBLIC	50	40	45	37.0	2613	PLANT MIX	0.15	MILL & PAVE TO R/W		30	15	RT. USFWS
52+80 AH	PUBLIC	20	25	25	37.0	1008	PLANT MIX	0.15	MILL & PAVE TO R/W		12	6	RT. WILD LIFE LN.

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

SHEET NO. 2

TABLE OF CONTENTS & NOTES

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS COUNTY
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY	REVIEWED BY	CHECKED BY
C. DICK 10/20/23	K. SHUCK 9/30/22	T. JOHNSON 11/15/23

9508000RDTTL001.DWG

MONTANA Department of Transportation

ROAD PLANS

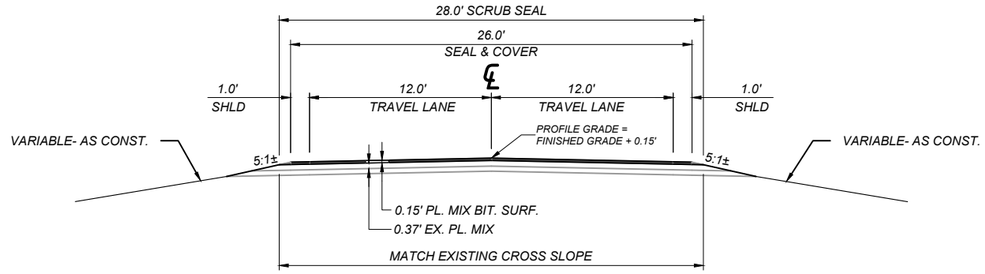
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TYPICAL SECTION NO. 1

MAINLINE

12+06			BEGIN PROJECT
12+06	TO		
18+00 BK	TO	5+49 AH	STATION EQUATION
	TO	53+00	TYP. NO. 1
53+00	TO	55+00	TRANSITION TYP. NO. 1 TO EXISTING (SEE END CONNECTION DETAIL)



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	SCRUB SEAL COVER	COVER	PLANT MIX		ASPHALT CEMENT	SCRUB SEAL	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet			4.05	square yards PER STATION				311
cubic yards PER STATION			15.0	tons PER STATION		0.56	0.52	
tons PER STATION			31.3	gals. PER STATION				16
square yards PER STATION	311	289						

* BASED ON 1 APPLICATION

SHEET NO. 3

TYPICAL SECTION

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS COUNTY
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY		REVIEWED BY		CHECKED BY	
C. DICK	10/20/23	K. SHUCK	9/30/22	T. JOHNSON	11/15/23

MONTANA
Department of Transportation

ROAD PLANS

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SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1 (SCRUB SEAL)	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons COMMERCIAL PLANT MIX - MISC.	AGGREGATE tons COMMERCIAL PLANT MIX GR. S - 3/4" PG 58V-34	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	REMARKS
12+06	12+71	65.00	65.00			PROJECT BEGIN CONNECTION	202	202		20	0.4	0.3	10	BEGIN CONNECTION AT CATTLE GUARD
12+71														
18+00 BK	5+49 AH			1,251.00		EQUATION								
	53+00	4,029.00	5,280.00				16,421	15,259		1,653	29.3	27.2	845	TYP. NO. 1
53+00	55+00	200.00	200.00			PROJECT END CONNECTION	622	622		68	1.2	1.2	33	END CONNECTION, TOP WIDTH TRANSITION FROM 26' TO 32'
						ADDITIONAL SURFACING	~	~	216	~	~	~	102	
TOTAL		4,294.00	5,545.00	1,251.00	~		17,245	16,083	216	1,741	30.9	28.7	989	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1 (SCRUB SEAL)	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons COMMERCIAL PLANT MIX - MISC.	AGGREGATE tons COMMERCIAL PLANT MIX GR. S - 3/4" PG 58V-34	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT TACK CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	REMARKS
						PUBLIC APPROACHES			85				41	DRAWN IN CAD
						PRIVATE APPROACHES			99				46	
						FARM FIELD APPROACHES			2				2	
13+41	16+21	280.00				DIGOUT NO. 1			26				11	
40+83	41+08	25.00				DIGOUT NO. 2			4				2	
SUBTOTAL		~	~	~	~		~	~	216	~	~	~	102	

COLD MILLING *

STATION FROM	STATION TO	sq. yards COLD MILLING	REMARKS
FROM	TO	0.00 - 0.15 ft	
12+06	12+71	202	PROJECT BEGIN - CATTLE GUARD ADJ. - 28' WIDTH
53+00	55+00	650	PROJECT END - 28'-32' WIDTH
		815	APPROACH MILLING
SUBTOTAL		1,667	
TOTAL		1,667	

* SEE DETAILS, AREAS MEASURED IN CAD

DIGOUT EXCAVATION *

STATION FROM	STATION TO	cu. yards DIGOUT EXCAVATION	cu. yards CRUSHED AGGREGATE COURSE	sq. yards GEOTEXTILE STABILIZATION	REMARKS
13+41	16+21	188	175	411	AIRPORT ROAD DIGOUT NO. 1, 8' WIDE, 280' FULL DEPTH
40+83	41+08	41	38	102	AIRPORT ROAD DIGOUT NO. 2, 13' WIDE, 25' FULL DEPTH
TOTAL		228	213	513	

* SEE DETAIL

SHEET NO. 4

SUMMARIES

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS COUNTY
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY	REVIEWED BY	CHECKED BY	
C. DICK 10/20/23	K. SHUCK 9/30/22	T. JOHNSON 11/15/23	9508000RDSUM001.DGN

MONTANA Department of Transportation

ROAD PLANS

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SIDEWALK

STATION		sq. yards				cu. yards	linear feet	REMARKS
		CONCRETE SIDEWALK		DETECTABLE WARNING DEVICES		CRUSHED AGGREGATE COURSE	WIDTH	
		4"		TYPE 1				
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	6"		
43+54	43+62		8.9		1.3		8.0	RT. AIRPORT RD.
43+54	43+62	8.9		1.3		5	8.0	LT. AIRPORT RD., PATH TO BE RE-ALIGNED
54+02	54+10	8.9		1.3			8.0	LT. AIRPORT RD.
54+02	54+10		8.9		1.3	7	8.0	RT. AIRPORT RD., PATH TO BE RE-ALIGNED
SUBTOTAL		17.8	17.8	2.6	2.6		~	
TOTAL		35.6		5.2		12	~	

FOR INFORMATION ONLY - INCLUDE IN THE COST OF STREET EXCAVATION

EQUIPMENT

STATION		hours		REMARKS
		MOTOR GRADER	MISC. EQUIPMENT #	
FROM	TO			
12+06	55+00	4	4	APPROACH SHAPING LT/RT
43+00	55+00		8	ADA CROSSING WORK
TOTAL		4	12	

ALL EQUIPMENT REQUIRED FOR PREP WORK INCLUDED IN COST OF MISC. EQUIPMENT

GUARDRAIL

STATION		linear feet				each		REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL		MASH W-BEAM TERMINAL SECTION		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
NEW RAIL								
47+84	50+41				187.5		2	
REMOVE RAIL								
47+75	50+50		275.0					
SUBTOTAL		~	275.0	~	187.5	~	2	
TOTAL		275.0		187.5		2		

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	43		43
STRIPING - YELLOW PAINT	gallon	37		37
WORDS & SYMBOLS - WHITE PAINT	gallon	3		3
STRIPING - WHITE EPOXY	gallon		57	57
STRIPING - YELLOW EPOXY	gallon		49	49
WORDS & SYMBOLS - WHITE EPOXY	gallon		4	4
TEMPORARY STRIPING	linear feet			10,824
FINAL SWEEP AND BROOM	course mile			1.1

BASED ON 1 APPLICATION.

SHEET NO. 5

SUMMARIES

PROJECT NAME AIRPORT ROAD - LEWISTOWN
COUNTY FERGUS COUNTY
PROJECT ID UPP 7103(5)
UPN 9508000

DESIGNED BY		DATE
C. DICK		10/20/23
REVIEWED BY		9/30/22
K. SHUCK		
CHECKED BY		11/15/23
T. JOHNSON		

MONTANA Department of Transportation

ROAD PLANS

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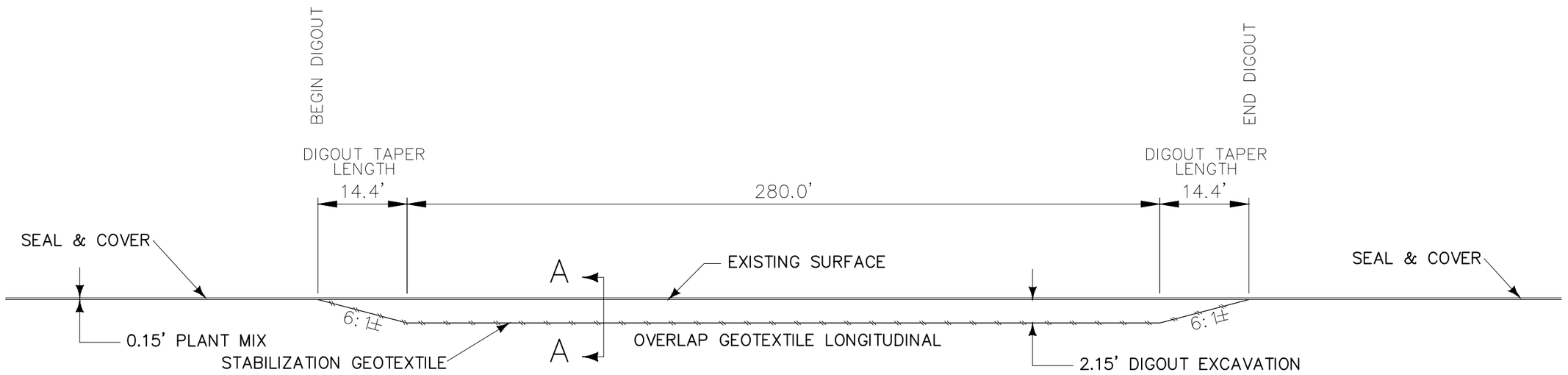
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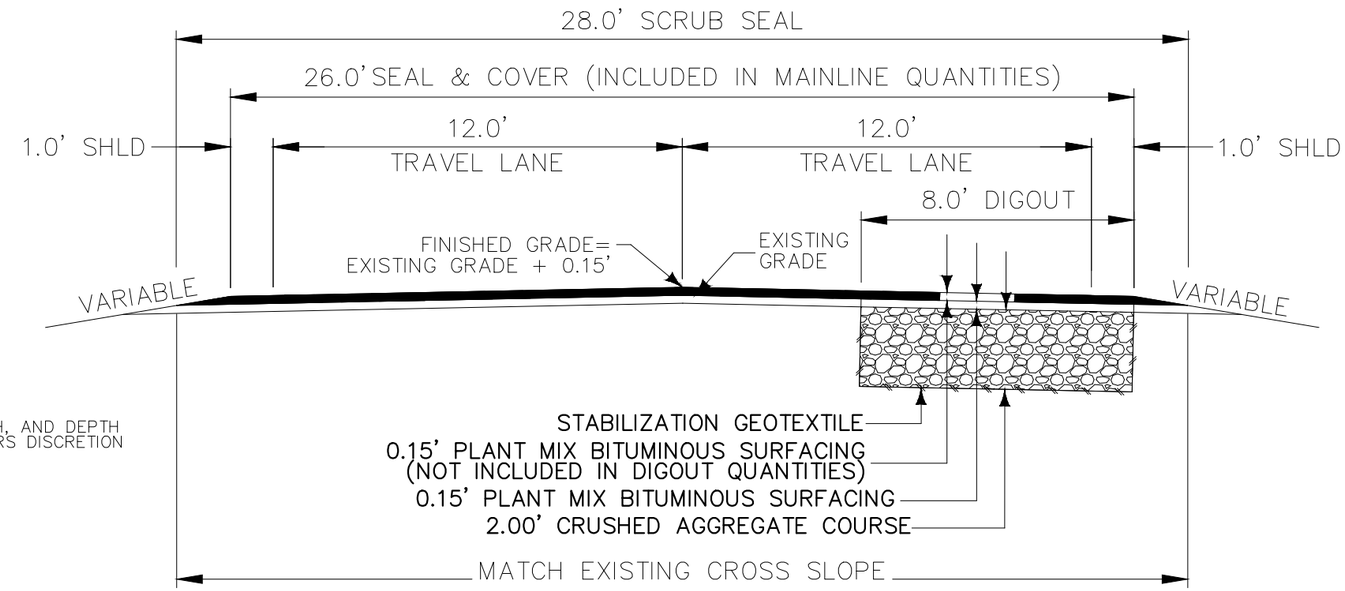
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DIGOUT DETAIL

AIRPORT ROAD

13+41 TO 16+21





NOTE: FINAL DIGOUT LOCATION, LENGTH, AND DEPTH IS AT THE PROJECT'S MANAGERS DISCRETION

SECTION A–A

QUANTITIES

UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COMM. PLANT MIX	CRUSHED AGG.		SCRUB SEAL	EMULSIFIED ASPHALT TACK *	STABILIZATION GEOTEXTILE
AREA square feet	1.20	16.0	square yards PER STATION		89	89
cubic yards PER STATION	4.4	59.3	tons PER STATION			
tons PER STATION	9.2		gals PER STATION		4	
square yards PER STATION						

* BASED ON ONE APPLICATION

SHEET NO. 6

DIGOUT NO. 1 DETAIL

NO SCALE

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS COUNTY
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY	REVIEWED BY	CHECKED BY
C. DICK 10/20/23	K. SHUCK 9/30/22	T. JOHNSON 11/15/23

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MONTANA Department of Transportation

ROAD PLANS

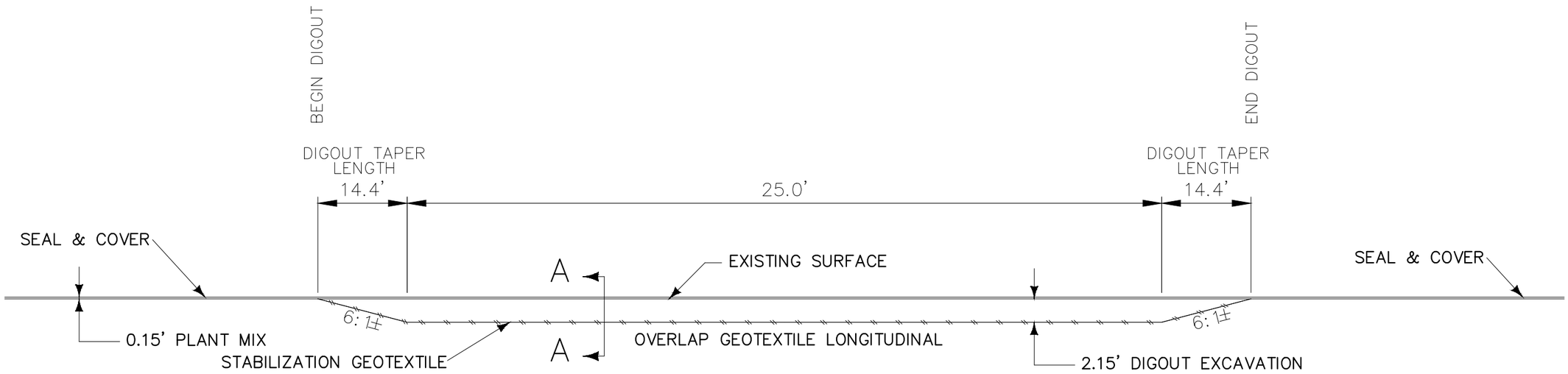
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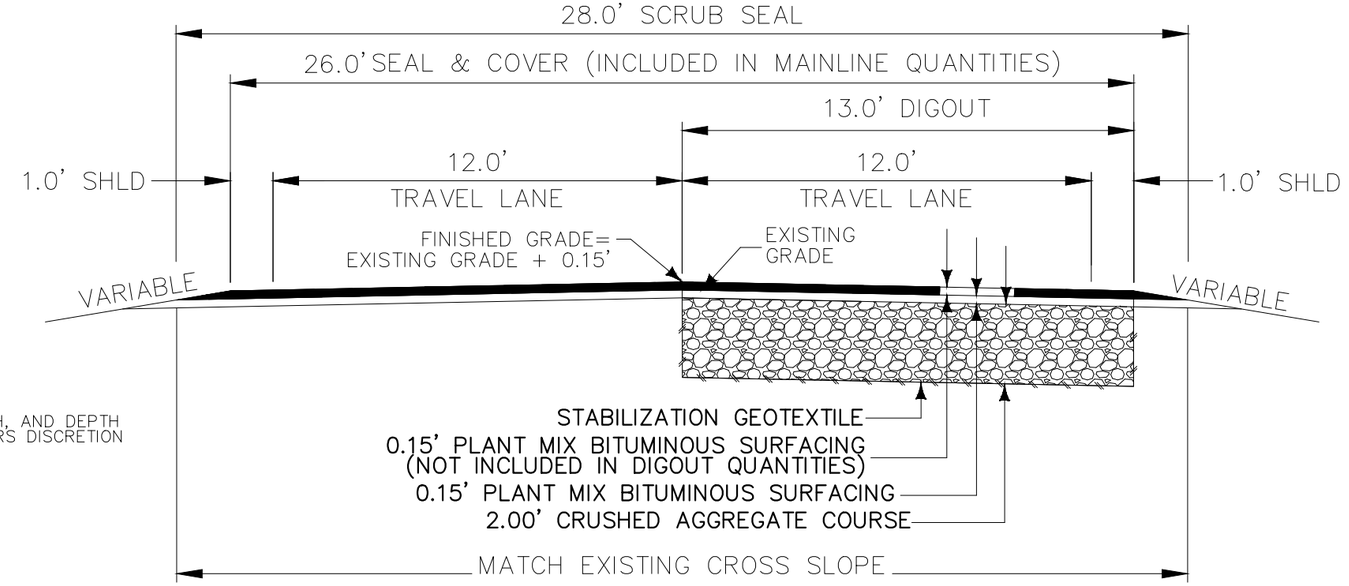
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DIGOUT DETAIL

AIRPORT ROAD

40+83 TO 41+08





SECTION A–A

NOTE: FINAL DIGOUT LOCATION, LENGTH, AND DEPTH IS AT THE PROJECT'S MANAGERS DISCRETION

QUANTITIES

UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COMM. PLANT MIX	CRUSHED AGG.		SCRUB SEAL	EMULSIFIED ASPHALT TACK *	STABILIZATION GEOTEXTILE
AREA square feet	1.95	26.0	square yards PER STATION		144	144
cubic yards PER STATION	7.2	96.3	tons PER STATION			
tons PER STATION	15.0		gals PER STATION		7	
square yards PER STATION						

* BASED ON ONE APPLICATION

SHEET NO. 7

DIGOUT NO. 2 DETAIL

NO SCALE

PROJECT NAME: AIRPORT ROAD - LEWISTOWN

COUNTY: FERGUS COUNTY

PROJECT ID: UPP 7103(5)

UPN: 9508000

DESIGNED BY: C. DICK 10/20/23

REVIEWED BY: K. SHUCK 9/30/22

CHECKED BY: T. JOHNSON 11/15/23

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MONTANA Department of Transportation

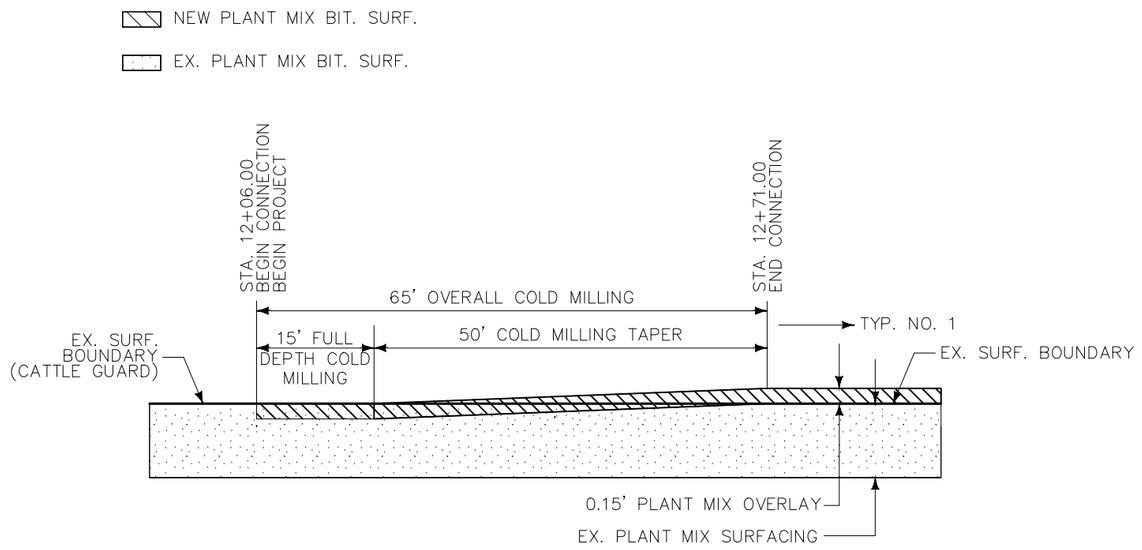
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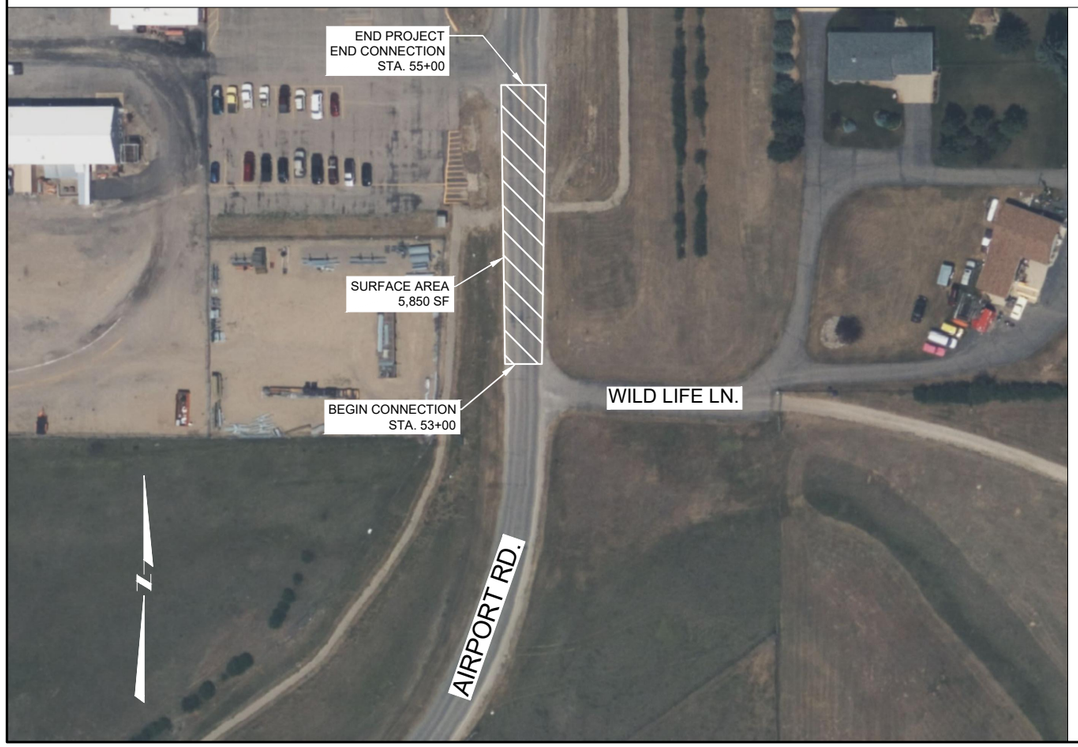
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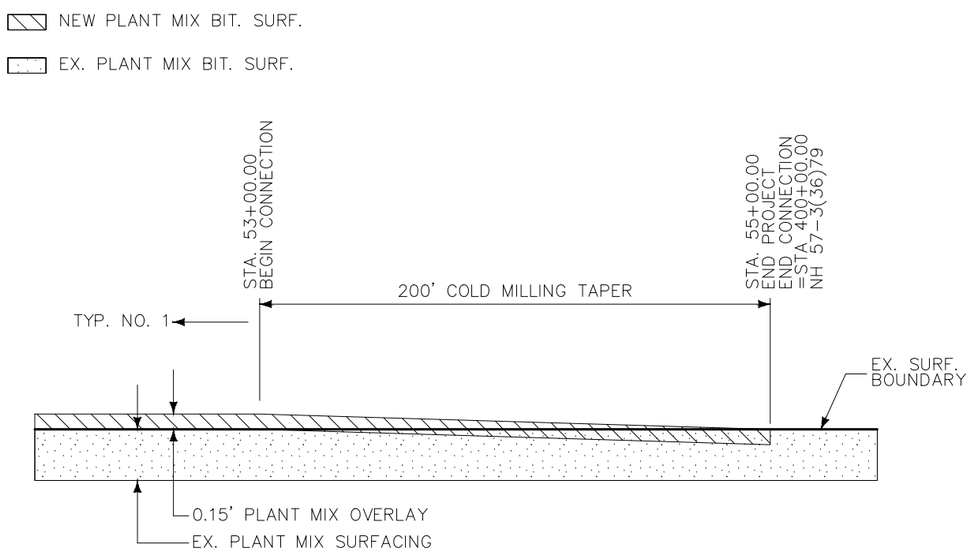
PROJECT BEGIN CONNECTION





PROJECT END CONNECTION





SHEET NO. 8

PROJECT BEGIN AND END CONNECTION DETAILS

NO SCALE

PROJECT NAME AIRPORT ROAD - LEWISTOWN
COUNTY FERGUS COUNTY
PROJECT ID UPP 7103(5)
UPN 9508000

DESIGNED BY	DATE
C. DICK	10/20/23
REVIEWED BY	DATE
K. SHUCK	9/30/22
CHECKED BY	DATE
T. JOHNSON	11/15/23

MONTANA Department of Transportation

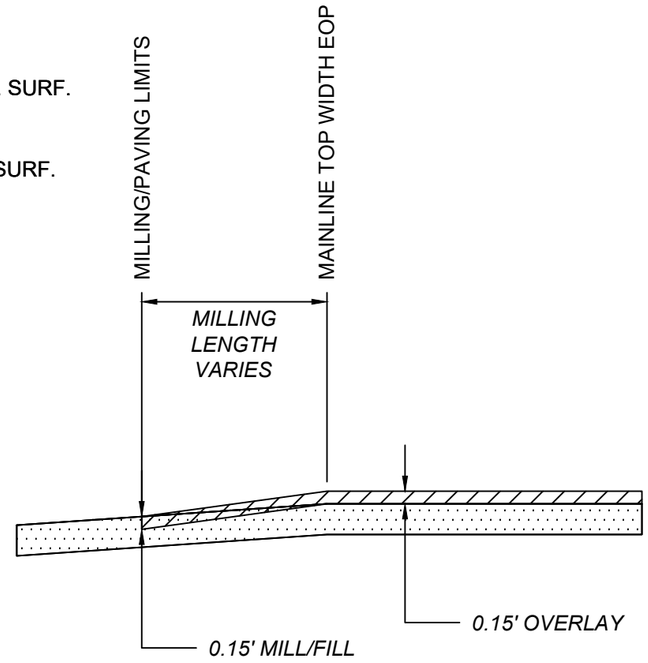
ROAD PLANS

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NEW PLANT MIX BIT. SURF.

EX. PLANT MIX BIT. SURF.



NOTE: SEE APPROACHES TABLE FOR APPROACH LOCATIONS

SHEET NO. 9

APPROACH MILLING DETAIL

MONTANA Department of Transportation

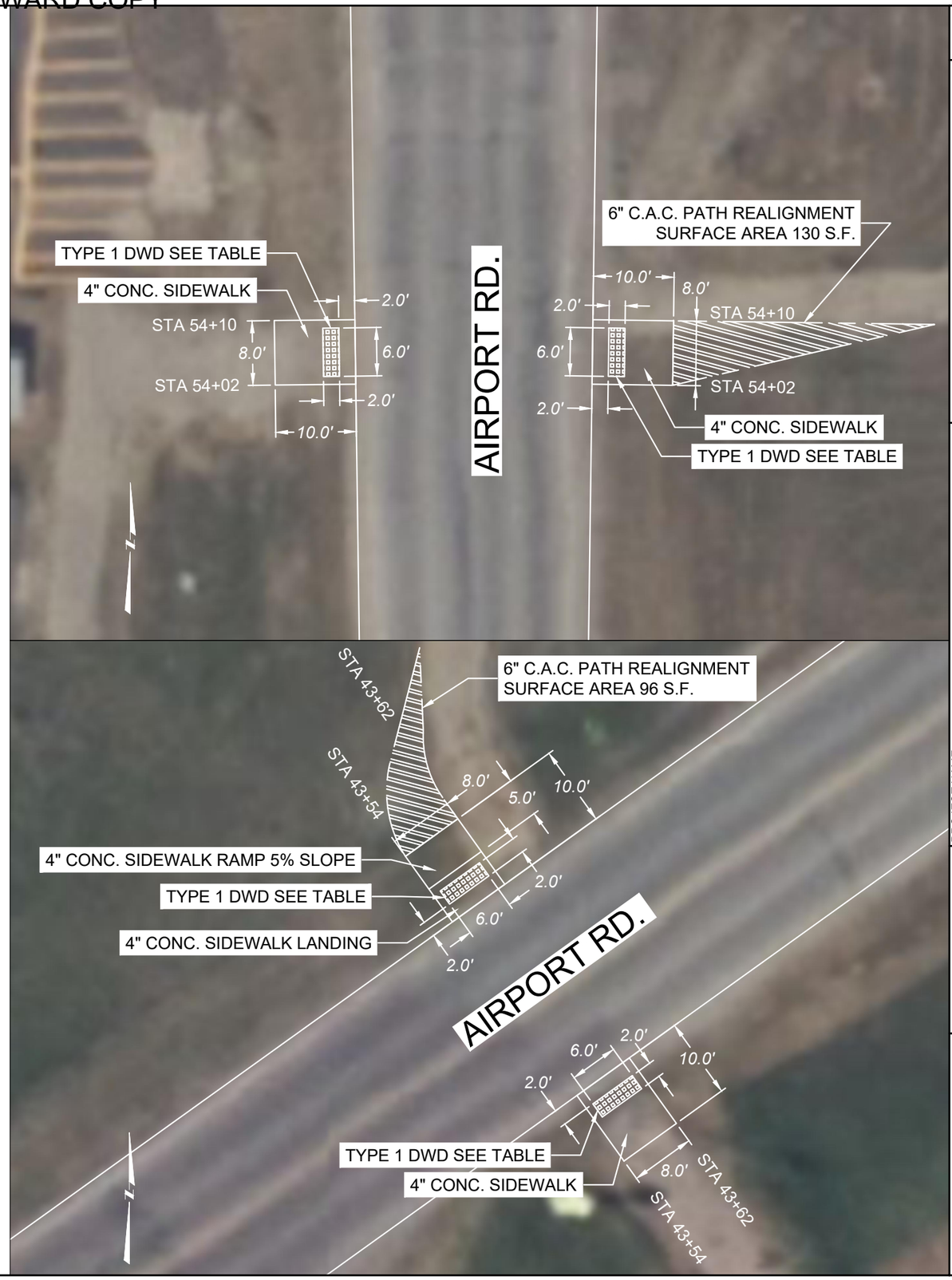
ROAD PLANS

DESIGNED BY		PROJECT NAME	AIRPORT ROAD - LEWISTOWN
C. DICK	10/20/23	COUNTY	FERGUS COUNTY
REVIEWED BY			
K. SHUCK	9/30/22	PROJECT ID	UPP 7103(5)
CHECKED BY			
T. JOHNSON	11/15/23	UPN	9508000

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NOTES:

MATCH ELEVATIONS AT ALL JOINTS BETWEEN NEW CONCRETE AND FINAL ADJOINING SURFACES

PROVIDE 2' SLOPE TRANSITION FROM EDGE OF FINISHED ROADWAY TO DWD.

DIMENSIONS TO MATCH FIELD CONDITIONS AT PROJECT MANAGER DISCRETION

SHEET NO. 10

ADA DETAILS

NO SCALE

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS COUNTY
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY	REVIEWED BY	CHECKED BY
C. DICK 10/20/23	K. SHUCK 9/30/22	T. JOHNSON 11/15/23

9508000RDDET001.DGN

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY SIGNING & DELINEATION QUANTITIES

Material	Total	Unit
SIGNS-ALUM REFL SHEET XI	146	SQUARE FOOT
POLES-TREATED WOOD 4 IN	222	FOOT
DELINEATOR DES A	29	EACH
DELINEATOR DES C	14	EACH
DELINEATOR DES D	12	EACH
WHITE FLEXIBLE DRIVABLE DELINEATOR	4	EACH
REMOVE SIGNS	14	EACH

NOTES:

RSFO = REPLACE SIGN FACE ONLY

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

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

FY = FLUORESCENT YELLOW SHEETING REQUIRED

⬟ = WHITE FLEXIBLE DRIVABLE DELINEATOR (WFDD)

SHEET NO.
S1

SUMMARY & NOTES

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY	REVIEWED BY	CHECKED BY
S WATSON 11/2023	T MURFITT 11/2023	N STYREN 11/2023

MONTANA
Department of Transportation

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SHEET NO. S2

SIGN LOCATION			SIGN PANEL SPECIFICATIONS																	SIGN ASSEMBLY QUANTITIES								ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTON	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET				BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		BREAKAWAY	REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT		W	X	H	BG	LEG				CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)			MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z			SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.		SIGN	GUIDE	SIGN	GUIDE		
STRATOSPHERE DRIVE																															
12+06																															
		X	BY OTHERS																											(by others)	USE AS IS - YIELD TO TAXIING AIRCRAFT (ON FENCE)
12+11																															
		X	BY OTHERS																											(by others)	USE AS IS - (2) BONANZA AVE
			BY OTHERS																											(by others)	USE AS IS - (2) STRATOSPHERE DR
17+60																															
		X	BY OTHERS																											(by others)	USE AS IS - SKYLINE AVIATION LLC
			BY OTHERS																											(by others)	USE AS IS - O'DELLS' SMALL ENGINE REPAIR
17+60																															
X			REMOVE																								1			REMOVE	REMOVE - (2) AIRPORT RD
			REMOVE																											REMOVE	REMOVE - (2) STRATOSPHERE DR
17+79																															
		X	D3	42	x	18	XI	XI		DFS		6'	"6:1"	4" Treated Wood Pole	5'	3'	14'2"					10.6		16.00			1			D3	NEW - D3 - (2) STRATOSPHERE DRIVE
			D3	36	x	10	XI	XI		DFS												5.0								D3	NEW - D3 - (2) AIRPORT RD
			R1-2	36	x	36	XI	XI														3.9								YIELD	REPLACE - YIELD
AIRPORT RD																															
6+18																															
X			BY OTHERS																											(by others)	USE AS IS - MFWP
			BY OTHERS																											(by others)	USE AS IS - NO UNAUTHORIZED PERSONNEL
			BY OTHERS																											(by others)	USE AS IS - AIRPORT TERMINAL
6+44																															
		X	R2-1	24	x	30	XI				RSFO											5.0					1			SPEED LIMIT {___}	RSFO - SPEED LIMIT (35)
7+86																															
X			BY OTHERS																											(by others)	USE AS IS - (2) AIRPORT RD

SIGN LOCATION & SPECIFICATION

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY: S WATSON 11/2023
REVIEWED BY: T MURFITT 11/2023
CHECKED BY: N STYREN 11/2023

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MONTANA Department of Transportation

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SHEET NO. S3

SIGN LOCATION			SIGN PANEL SPECIFICATIONS																	SIGN ASSEMBLY QUANTITIES								ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTON	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET				BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		BREAKAWAY	REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT		W	X	H	BG	LEG				CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)			MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z			SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.		SIGN	GUIDE	SIGN	GUIDE		
9+13																															
		X	BY OTHERS																											(by others)	USE AS IS - GROW YOUR BUSINESS HERE
13+80																															
X			D3	36	x	10	XI	XI		DFS		6'	"6:1"	4" Treated Wood Pole	5'	3'	13'7"					5.0		14.00			1				D3	REPLACE - D3 - (2) SKYLINE DR
			D3	36	x	10	XI	XI		DFS												5.0									D3	REPLACE - D3 - (2) AIRPORT RD
			R1-1	30	x	30	XI	XI														5.2									STOP	REPLACE - STOP
13+93																															
		X	BY OTHERS																											(by others)	USE AS IS - MT ARMY NATIONAL GUARD
			BY OTHERS																											(by others)	USE AS IS - 143RD MP DET (L&O)
14+98																															
X			BY OTHERS																											(by others)	USE AS IS - NATIONAL GUARD ARMORY
15+50																															
X			BY OTHERS																											(by others)	USE AS IS - LEWISTOWN FIRE STATION
15+72																															
		X	BY OTHERS																											(by others)	USE AS IS - FERGUS COUNTY SHOP
16+64																															
		X	D3	36	x	10	XI	XI		DFS		6'	"6:1"	4" Treated Wood Pole	5'	3'	13'7"					5.0		14.00			1				D3	REPLACE - D3 - (2) ARMORY RD
			D3	36	x	10	XI	XI		DFS												5.0									D3	REPLACE - D3 - (2) AIRPORT RD
			R1-1	30	x	30	XI	XI														5.2									STOP	REPLACE - STOP
18+17																															
		X	R1-1	30	x	30	XI	XI				6'	"6:1"	4" Treated Wood Pole	5'	3'	11'9"					5.2		12.00			1				STOP	REPLACE - STOP
20+45																															
		X	D3	30	x	18	XI	XI		DFS		6'	"6:1"	4" Treated Wood Pole	5'	3'	13'4"					7.6		14.00			1				D3	REPLACE - (2) BUFFALO BERRY TR
			R1-1	30	x	30	XI	XI																							STOP	REPLACE - STOP

SIGN LOCATION & SPECIFICATION

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY		DRAWN BY		REVIEWED BY		CHECKED BY		9508000SISUM001.DWG
S WATSON	11/2023			T MURFITT	11/2023	N STYREN	11/2023	

MONTANA Department of Transportation

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SHEET NO. S4

SIGN LOCATION			SIGN PANEL SPECIFICATIONS																SIGN ASSEMBLY QUANTITIES								ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTON	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET				BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		BREAKAWAY	REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT		W	X	H	BG	LEG				CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)			MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z			SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.		SIGN	GUIDE	SIGN	GUIDE		
20+75																														
		X	R2-1	24	X	30	XI					10'	"6:1"	4" Treated Wood Pole	5'	3'	12'4"					5.0		14.00			1				SPEED LIMIT {___}	REPLACE - SPEED LIMIT (35)
23+00																														
X			R1-1	30	X	30	XI	XI				6'	"6:1"	4" Treated Wood Pole	5'	3'	11'9"					5.2		12.00			1				STOP	REPLACE - STOP
41+55																														
X			BY OTHERS																											(by others)	USE AS IS - SIGN POSTS
42+13																														
		X	BY OTHERS																											(by others)	USE AS IS - CHARLES M. RUSSELL
43+18																														
		X	R1-5L	30	X	30	XI					10'	"6:1"	4" Treated Wood Pole	7'	3'	14'5"					6.3		16.00							YIELD-PEDESTRIAN-LT	NEW - YIELD HERE TO PEDESTRIANS
43+48																														
		X	W11-2	30	X	30	XI		FY			10'	"6:1"	4" Treated Wood Pole	7'1"	3'	15'7"					6.3		16.00			1				PEDESTRIAN XING	REPLACE - PEDESTRIAN CROSSING
			W16-7PL	24	X	12	XI		FY													2.0									LT DOWN ARROW	REPLACE - DOWNWARD ARROW
43+77																														
		X	W11-2	30	X	30	XI		FY			10'	"6:1"	4" Treated Wood Pole	7'1"	3'	15'7"					6.3		16.00			1				PEDESTRIAN XING	REPLACE - PEDESTRIAN CROSSING
			W16-7PL	24	X	12	XI		FY													2.0									LT DOWN ARROW	REPLACE - DOWNWARD ARROW
44+07																														
			R1-5L	30	X	30	XI					10'	"6:1"	4" Treated Wood Pole	7'	3'	14'5"					6.3		16.00							YIELD-PEDESTRIAN-LT	NEW - YIELD HERE TO PEDESTRIANS
52+35																														
		X	R2-1	24	X	30	XI				RSFO											5.0									SPEED LIMIT {___}	RSFO - SPEED LIMIT (25)
52+54																														
		X	BY OTHERS																											(by others)	USE AS IS - (2) WILD LIFE LN
53+15																														
X			R2-1	24	X	30	XI					10'	"6:1"	4" Treated Wood Pole	5'	3'	12'4"					5.0		14.00			1				SPEED LIMIT {___}	REPLACE - SPEED LIMIT (35)

SIGN LOCATION & SPECIFICATION

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY	REVIEWED BY	CHECKED BY
S WATSON 11/2023	T MURFITT 11/2023	N STYREN 11/2023

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MONTANA Department of Transportation

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SHEET NO. S5

SIGN LOCATION			SIGN PANEL SPECIFICATIONS																			SIGN ASSEMBLY QUANTITIES								ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTON	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET				BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		BREAKAWAY	REMV		RESET		SIGN TEXT	REMARKS
LFT	MDN	RGT		W	X	H	BG	LEG				CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)			MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z			SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.		SIGN	GUIDE	SIGN	GUIDE		
53+22																															
		X	REMOVE																								1				REMOVE	REMOVE - PEDESTRIAN CROSSING
53+77																															
		X	R1-5L	30	X	30	XI					10'	"6:1"	4" Treated Wood Pole	7'	3'	14'5"					6.3		16.00							YIELD-PEDESTRIAN-LT	NEW - YIELD HERE TO PEDESTRIANS
54+07																															
		X	W11-2	30	X	30	XI		FY			10'	"6:1"	4" Treated Wood Pole	7'1"	3'	15'7"					6.3		16.00							PEDESTRIAN XING	NEW - PEDESTRIAN CROSSING
			W16-7PL	24	X	12	XI		FY													2.0									LT DOWN ARROW	NEW - DOWNWARD ARROW
54+10																															
		X	W11-2	30	X	30	XI		FY		RSFO											6.3					1				PEDESTRIAN XING	RSFO - PEDESTRIAN CROSSING
			W16-7PL	24	X	12	XI		FY		RSFO											2.0									LT DOWN ARROW	RSFO - DOWNWARD ARROW
53+77																															
		X	R1-5L	30	X	30	XI					10'	"6:1"	4" Treated Wood Pole	7'	3'	14'5"					6.3		16.00							YIELD-PEDESTRIAN-LT	NEW - YIELD HERE TO PEDESTRIANS
																					TOTALS:	146		222			14				

DELINEATION TABLE		
	DESIGN "A"	29
	DESIGN "C"	14
	DESIGN "D"	12
	WHITE FLEX DRIVABLE	4

SIGN LOCATION & SPECIFICATION

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY	S WATSON	11/2023
REVIEWED BY	T MURFITT	11/2023
CHECKED BY	N STYREN	11/2023

MONTANA Department of Transportation

SPEC SUM

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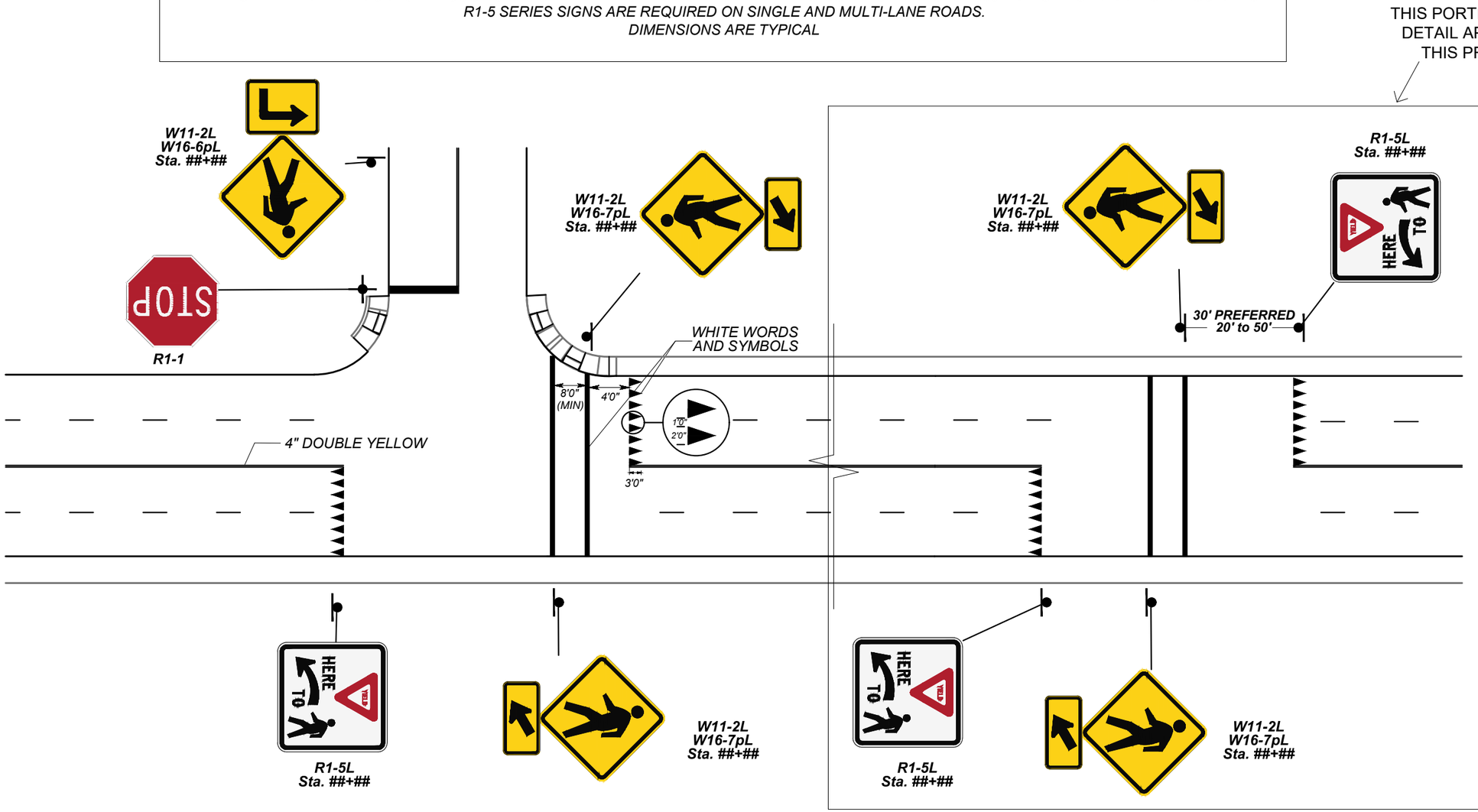
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TYPICAL PEDESTRIAN CROSSING - NON SIGNALIZED DETAIL

NOT TO SCALE

GENERAL NOTES:

REFER TO PART 2B-11 AND 3B-15 THROUGH 3B-18 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION FOR ADDITIONAL GUIDANCE.
R1-5 SERIES SIGNS ARE REQUIRED ON SINGLE AND MULTI-LANE ROADS.
DIMENSIONS ARE TYPICAL



SHEET NO.
S6

PEDESTRIAN CROSSING DETAIL

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY	S WATSON	11/2023
REVIEWED BY	T MURFITT	11/2023
CHECKED BY	N STYREN	11/2023

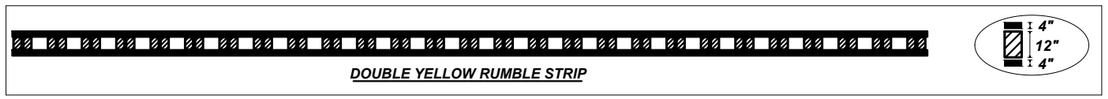
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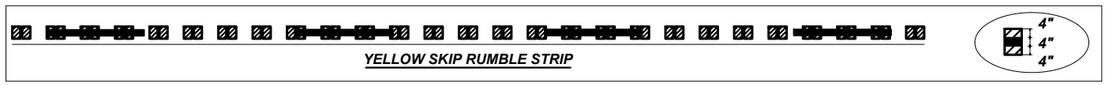
DETAILS

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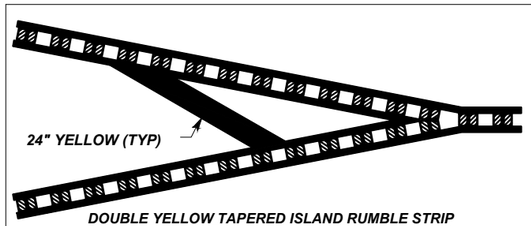
TYPICAL RURAL CENTERLINE PAVEMENT MARKINGS AND RUMBLE STRIPS. SEE ROAD DESIGN PLANS FOR RUMBLE STRIP QUANTITY (IF USED)



DOUBLE YELLOW RUMBLE STRIP

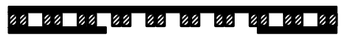


YELLOW SKIP RUMBLE STRIP

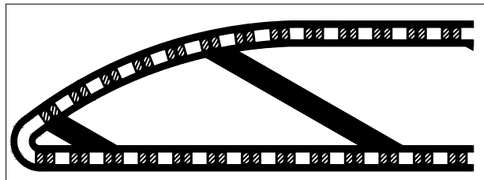


DOUBLE YELLOW TAPERED ISLAND RUMBLE STRIP

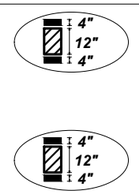


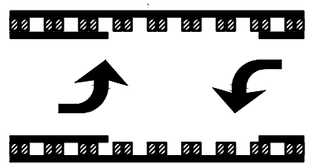


SINGLE NO PASS RUMBLE STRIP

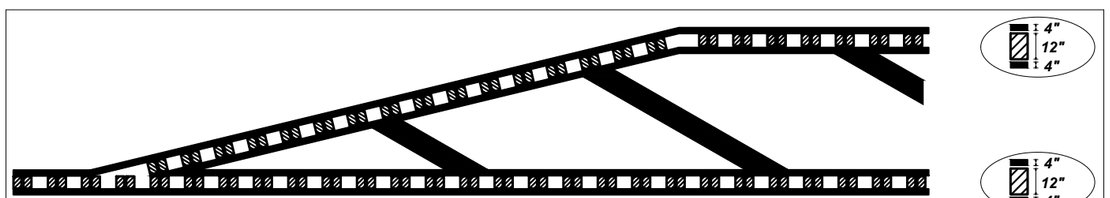


DOUBLE YELLOW BULLNOSE ISLAND RUMBLE STRIP

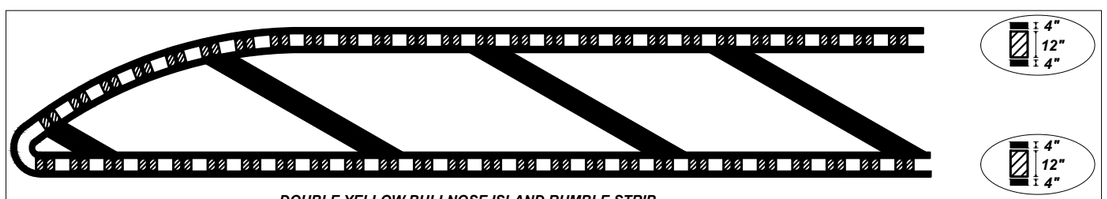




TWO WAY LEFT TURN LANE RUMBLE STRIP



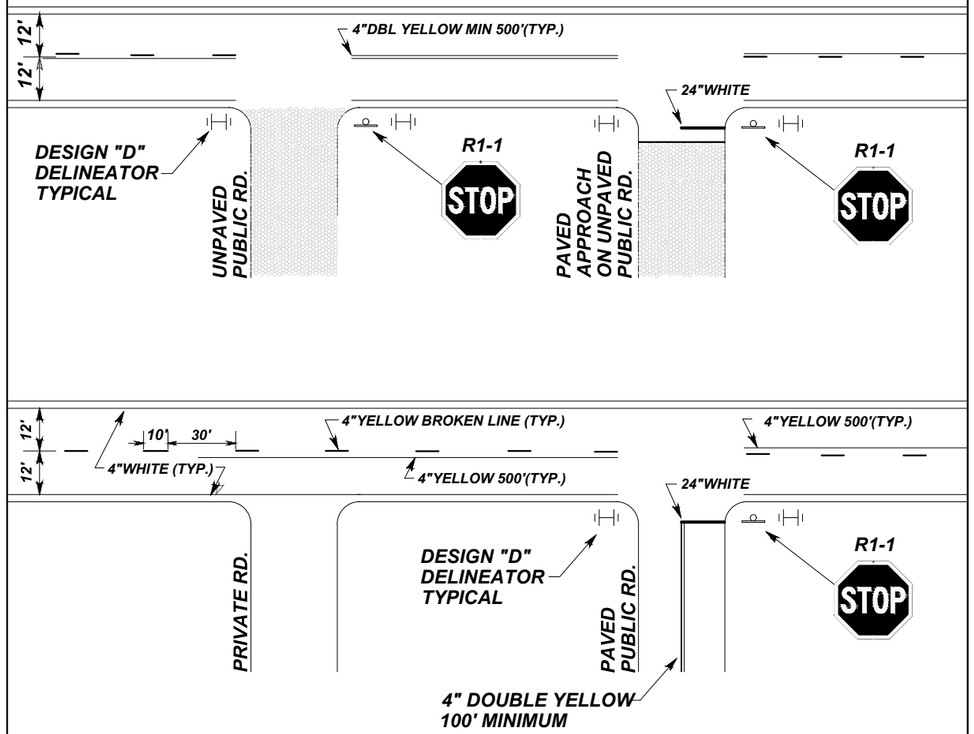
DOUBLE YELLOW TURN LANE RUMBLE STRIP



DOUBLE YELLOW BULLNOSE ISLAND RUMBLE STRIP

TYPICAL RURAL PAVEMENT MARKINGS

NO SCALE



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

ALL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE SPECIFIED.

NOTES:

1. SEE CENTERLINE RUMBLE STRIPS DTL. DWG. NO. 411-05 FOR ADDITIONAL INFORMATION.
2. ALL PAVEMENT MARKINGS ARE TO CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" PUBLICATIONS, FROM THE FEDERAL HIGHWAY ADMINISTRATION.
3. SEE CENTERLINE PAVEMENT MARKINGS FOR RURAL HIGHWAYS MEMO DATED JUNE 18, 2019 FOR APPLICATION METHODOLOGY
4. DASHED LINES WILL HAVE A 10:30 SKIP IN RURAL LOCATIONS, AND A 9:15 SKIP IN URBAN LOCATIONS

SHEET NO. S7

TYPICAL PAVEMENT MARKING DETAIL

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY	S WATSON	11/2023
REVIEWED BY	T.MURFITT	11/2023
CHECKED BY	N.STYREN	11/2023

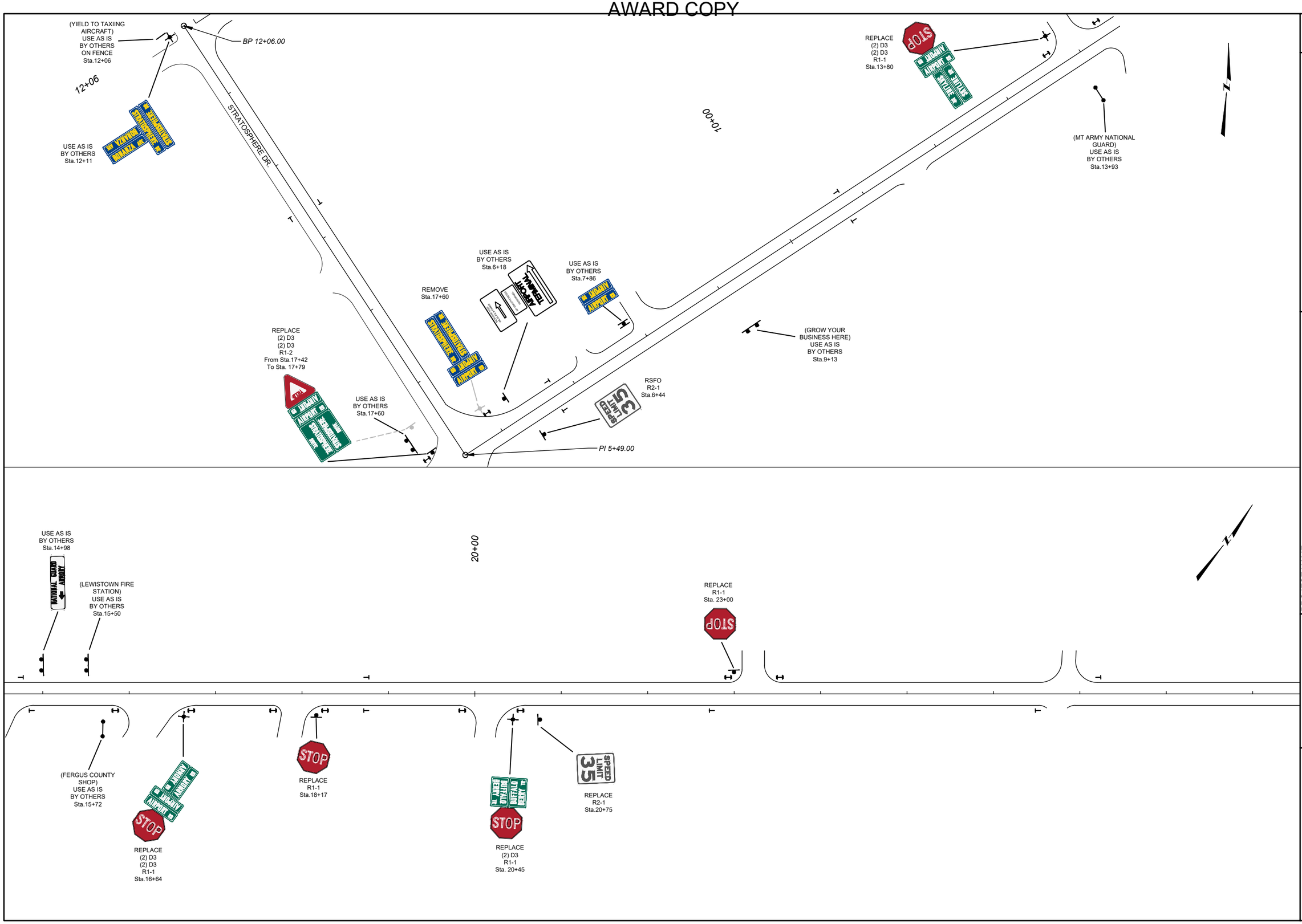
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MONTANA Department of Transportation

DETAILS

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SHEET NO. S8

PROJECT BEGIN

PROJECT NAME: AIRPORT ROAD - LEWISTOWN
COUNTY: FERGUS
PROJECT ID: UPP 7103(5)
UPN: 9508000

DESIGNED BY		REVIEWED BY		CHECKED BY	
S WATSON	11/2023	T MURFITT	11/2023	N STYREN	11/2023

MONTANA Department of Transportation

SIGNING PLANS

12/1/2023 2:55 PM

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SHEET NO.
S9

PROJECT END

PROJECT NAME **AIRPORT ROAD - LEWISTOWN**
COUNTY **FERGUS**
PROJECT ID **UPP 7103(5)**
UPN **9508000**

DESIGNED BY	S WATSON	11/2023
REVIEWED BY	T MURFITT	11/2023
CHECKED BY	N STYREN	11/2023

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MONTANA
Department of Transportation

SIGNING PLANS

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