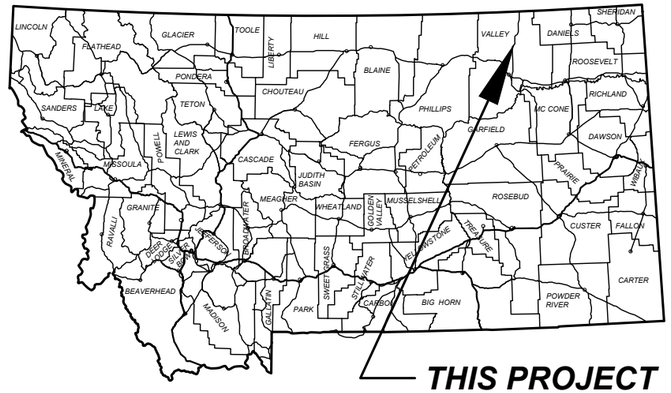
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MONTANA DEPARTMENT OF TRANSPORTATION

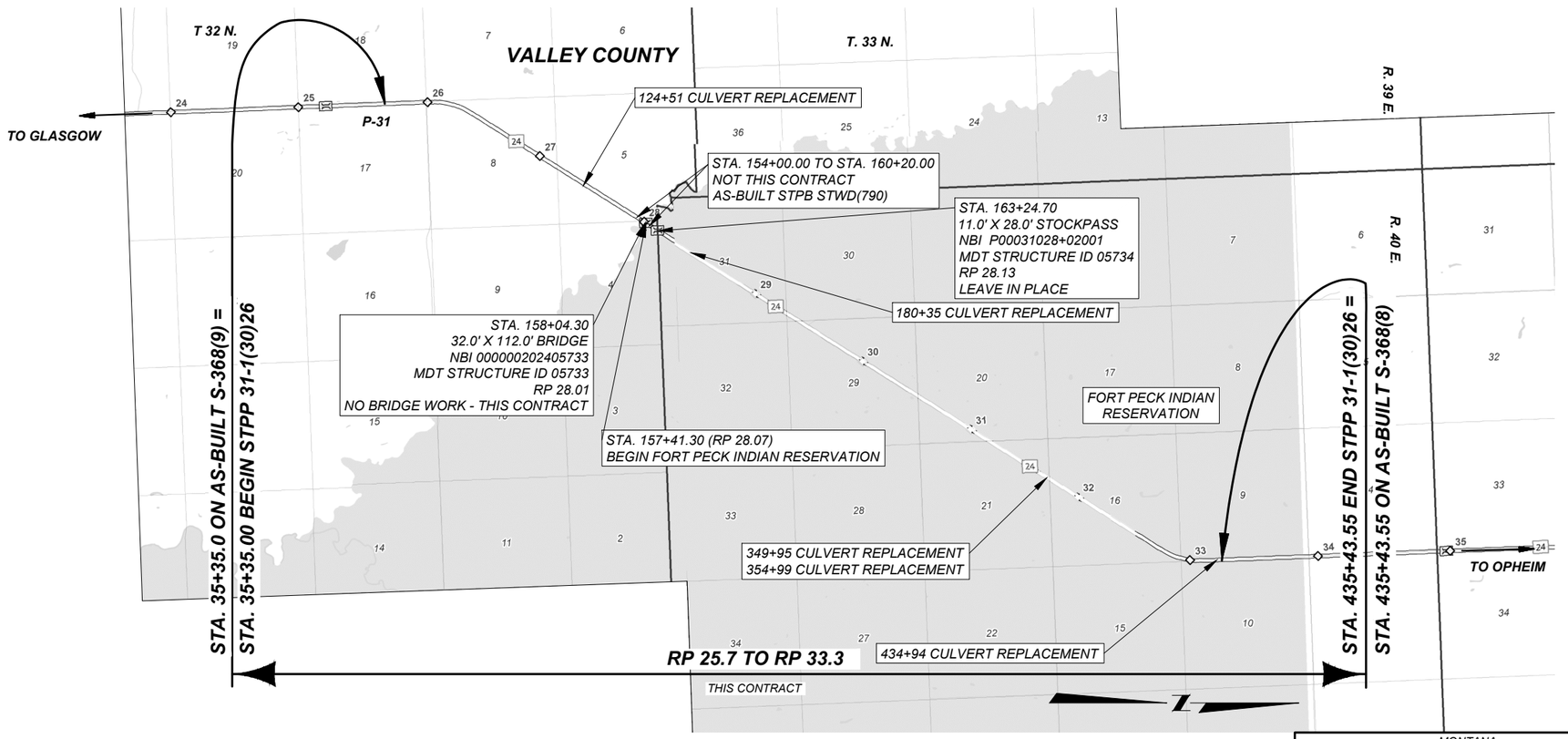
FEDERAL AID PROJECT STPP 31-1(30)26
OVERLAY, SEAL & COVER & CULVERT REPLACEMENT
SOUTH OF OPHEIM-SOUTH
VALLEY COUNTY

LENGTH 7.6 MILES

PROJECT DESIGN DATA			
PRESENT	2025	A.A.D.T. =	300
LETTING	2026	A.A.D.T. =	300
DESIGN	2045	A.A.D.T. =	360
		D.H.V. =	40
		TRUCKS =	29.3%
		V. =	55 MPH
		18 KIP ESAL'S =	43 DAILY
		ANNUAL GROWTH RATE =	1.000%

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	STPP 31-1(29)26

SURFACING SOURCES - CONTRACTOR FURNISHED



MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:

HIGHWAYS ENGINEER

APPROVED

By David Holien at 10:11 am, Sep 30, 2026

DAVID HOLIEN 20186PE LICENSED PROFESSIONAL ENGINEER MONTANA

DATE

SHEET NO. 1

TITLE

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 1022800

DESIGNED BY: L. ZEIGLER 11/2025
REVIEWED BY:
CHECKED BY: J. CERECK 06/2026

1022800RDTTL001.DWG

MONTANA Department of Transportation

ROAD PLANS

8/31/2026 9:20 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 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 - SEAL	= 0.42 GAL. PER SQ.YARD (UNDILUTED)
COVER	= 25 LBS. PER SQ.YARD
LEVELING	= 350 TONS PER MILE
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ. YARD (UNDILUTED)
ASPHALT BINDER - PAVING GEOTEXTILE	= 0.22 GAL. PER SQ. YARD (AVG. APPLICATION RATE)

AS-BUILTS

THE FOLLOWING AS-BUILT PROJECTS CAN BE REFERENCED FOR INFORMATION BUT THIS PROJECT WAS RESTATIONED AND LOCATIONS ARE APPROXIMATE. STATIONING WILL NOT ALIGN BETWEEN AS-BUILTS AND THIS CONTRACT.

FAS S-368(8) (ORIGINAL CONST. - 1954)
FAS S-368(9) (ORIGINAL CONST. - 1955)
STPP 31-1(22)29 (SLIDE REPAIR - 2017)
STPB STWD(790) (BRIDGE REPLACEMENT - 2024)

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.

SALVAGE COLD MILLINGS

APPROXIMATELY 4,000 CU. YDS. OF COLD MILLINGS WILL BE GENERATED WITH THIS PROJECT. SALVAGE TO OPHEIM MAINTENANCE STOCKPILE SITE AT RP 31.3 ON P-31. TO ARRANGE DELIVERY CONTACT: TRAVIS AANSTAD (406)942-2635.

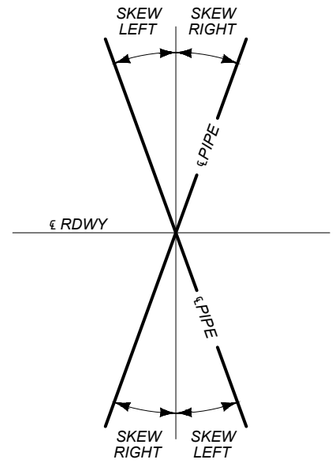
SOILS INFORMATION

SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. THE LOCATION OF GEOTECHNICAL BORINGS IS SHOWN ON THE PLAN VIEW WITH THE FOLLOWING SYMBOL:

BORING NUMBER

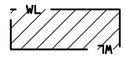
(GEOTECHNICAL BORING)

SKEW DIAGRAM

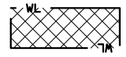


WETLANDS

WETLANDS EXIST ADJACENT TO THE ROADWAY AND MAY EXIST BEYOND THE PROJECT LIMITS. WETLAND AREAS AND PERMANENT WETLAND IMPACT AREAS WITHIN THE PROJECT LIMITS HAVE BEEN DELINEATED AND ARE SHOWN ON THE PLANS. ANY ACTION IMPACTING WETLAND AREAS OUTSIDE OF THE PERMANENT IMPACT AREAS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR.



DELINEATED WETLAND AREAS



PERMANENT WETLAND IMPACTED AREAS

WETLAND DELINEATION TABLE

WETLAND DESIGNATION	STATION FROM	STATION TO	WETLAND AREA (acres) DELINEATED AREA	WETLAND AREA (acres) PERMANENT IMPACTED AREA	REMARKS
W1	347+16	349+77	0.147	0.000	LT.
W2	348+04	350+49	0.067	0.000	RT.
W3	354+40	355+55	0.308	0.000	RT.
W4	354+50	357+08	0.703	0.000	LT.
			1.23	0.00	FORT PECK INDIAN RESERVATION

SHEET NO. 2

TABLE OF CONTENTS & NOTES

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: L. ZEIGLER 11/2025
REVIEWED BY:
CHECKED BY: J. CERECK 06/2026
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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	hours	REMARKS
		WIDTH	RADIUS #		LENGTH		PMS THK.		PLANT MIX BIT. SURF. 3/4"	PLANT MIX BIT. SURF. MISC.	ASPHALT BINDER PG 58H-34	EMULS. ASPHALT TACK	MOTOR GRADER HOURS	
			LEFT	RIGHT										
52+25	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT.
150+20	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT.
150+20	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
SUBTOTAL	**FARM FIELD**									**9**	**0.6**	**6**	**1.5**	
176+33	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
195+28	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT.
195+28	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
242+85	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
266+09	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT.
266+09	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
295+13	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT.
295+13	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
306+21	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT.
306+21	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
321+00	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT,
321+00	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
350+24	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT.
369+57	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT.
369+57	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
387+00	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	LT.
387+00	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
418+64	FARM FIELD	12	25	25	12.0	GRAVEL	0.15	12' ASPHALT STRIP/GRAVEL		3	0.2	2	0.5	RT.
SUBTOTAL	**FARM FIELD**									**54**	**3.6**	**36**	**9.0**	**FORT PECK INDIAN RESERVATION**
TOTAL	**FARM FIELD**									**63**	**4.2**	**42**	**10.5**	
176+33	PRIVATE	20	25	25	58.0	GRAVEL	0.15	PAVE TO LENGTH		19	1.0	10	0.5	LT.
258+69	PRIVATE	20	25	25	68.0	GRAVEL	0.15	PAVE TO LENGTH		22	1.2	11	0.5	RT.
261+33	PRIVATE	20	25	25	68.0	GRAVEL	0.15	PAVE TO LENGTH		22	1.2	11	0.5	RT.
SUBTOTAL	**PRIVATE**									**63**	**3.4**	**32**	**1.5**	**FORT PECK INDIAN RESERVATION**
TOTAL	**PRIVATE**									**63**	**3.4**	**32**	**1.5**	
52+25	PUBLIC	30	25	25	38.0	GRAVEL	0.15	PAVE TO LENGTH	13		0.7	7	0.5	RT.
SUBTOTAL	**PUBLIC**								**13**		**0.7**	**7**	**0.5**	
237+70	PUBLIC	25	25	25	68.0	GRAVEL	0.15	PAVE TO LENGTH	22		1.2	11	0.5	LT.
290+90	PUBLIC	30	25	25	88.0	GRAVEL	0.15	PAVE TO LENGTH	28		1.5	14	0.5	LT.
290+90	PUBLIC	30	25	25	48.0	GRAVEL	0.15	PAVE TO LENGTH	15		0.8	8	0.5	RT.
325+52	PUBLIC	25	25	25	78.0	GRAVEL	0.15	PAVE TO LENGTH	25		1.4	13	0.5	RT.
326+28	PUBLIC	25	25	25	88.0	GRAVEL	0.15	PAVE TO LENGTH	28		1.5	14	0.5	LT.
354+33	PUBLIC	30	25	25	108.0	GRAVEL	0.15	PAVE TO LENGTH	35		1.9	18	0.5	LT.
355+63	PUBLIC	30	25	25	88.0	GRAVEL	0.15	PAVE TO LENGTH	28		1.5	14	0.5	RT.
SUBTOTAL	**PUBLIC**								**181**		**9.8**	**92**	**3.5**	**FORT PECK INDIAN RESERVATION**
TOTAL	**PUBLIC**								**194**		**10.5**	**99**	**4.0**	

ALL RADII MEASURED TO EDGE OF SHOULDER

SHEET NO. 3

NOTES

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: L. ZEIGLER 11/2025
REVIEWED BY:
CHECKED BY: J. CERECK 06/2026
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MONTANA Department of Transportation

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CENTERLINE COORDINATE TABLE - 10228000_RD_PA_122+50_TO_140+28				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
122+49.72	BOA	1,582,705.243	2,682,976.536	
140+27.98	EOA	1,584,208.482	2,683,926.530	NSOP
10228000_RD_PP_122+50				

CENTERLINE COORDINATE TABLE - 10228000_RD_PA_178+18_TO_182+45				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
178+18.40	BOA	1,587,408.837	2,685,951.025	
182+44.50	EOA	1,587,768.445	2,686,179.597	
10228000_RD_PP_178+12				

CENTERLINE COORDINATE TABLE - 10228000_RD_PA_347+75_TO_361+44				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
347+75.20	BOA	1,601,725.293	2,695,008.439	
361+44.19	EOA	1,602,882.181	2,695,740.391	
10228000_RD_PP_349+55 AND 10228000_RD_PP_354+33				

CENTERLINE COORDINATE TABLE - 10228000_RD_PA_AB				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
387+42.30	BOA	1,605,088.873	2,697,139.071	NSOP
401+00.00	PI	1,606,237.348	2,697,863.200	
410+25.93	PC	1,607,020.591	2,698,357.038	
427+53.08	PT	1,608,664.035	2,698,796.218	
449+38.79	EOA	1,610,847.972	2,698,708.174	NSOP
10228000_RD_PP_AB				

NSOP - NOT SHOWN ON PLANS

SHEET NO. 4

CENTERLINE COORDINATE TABLES

MONTANA
Department of Transportation

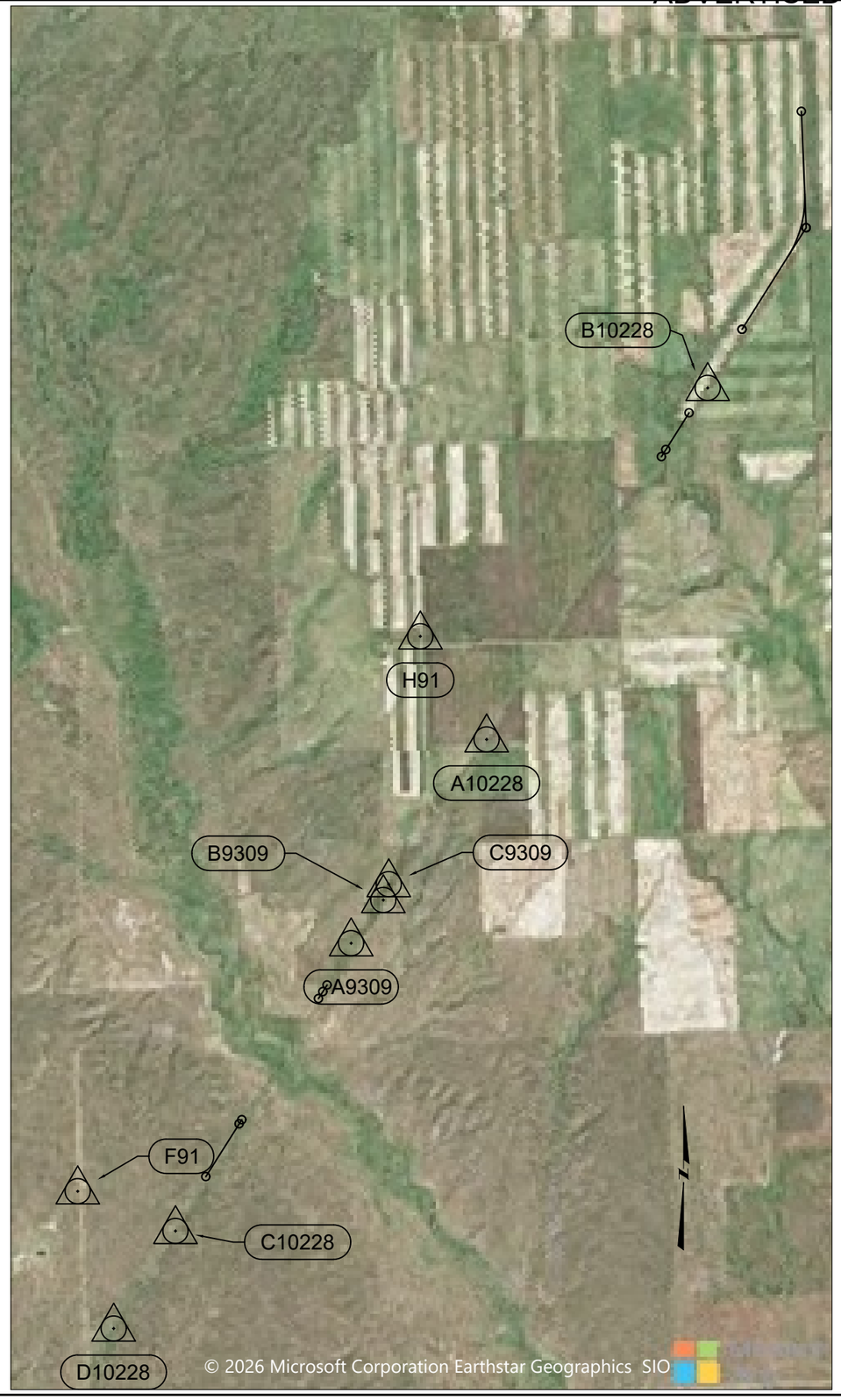
ROAD PLANS

PSE

DESIGNED BY	L. ZEIGLER 11/2025
REVIEWED BY	
CHECKED BY	J. CERECK 06/2026
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PROJECT NAME: **SOUTH OF OPHEIM-SOUTH**
COUNTY: **VALLEY**
PROJECT ID: **STPP 31-1(30)26**
UPN: **10228000**

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CONTROL DIAGRAM

SCALE: N/A

NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2011 NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET. DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE / CSF = GROUND DISTANCE). THE CSF FOR THIS PROJECT IS 0.99963261

BEARING SOURCE
GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE
NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID03 AND HOLDING B9309)

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
A9309	1,588,883.942	2,686,815.750	2,784.42
A10228	1,594,256.029	2,690,379.041	2,913.18
B9309	1,590,010.877	2,687,678.870	2,835.45
B10228	1,603,541.241	2,696,217.326	2,900.37
C9309	1,590,430.139	2,687,793.177	2,847.10
C10228	1,581,267.787	2,682,160.059	4,249.52
D10228	1,578,676.569	2,680,542.093	2,828.82
F91	1,582,317.605	2,679,578.962	2,806.21
H91	1,596,962.754	2,688,643.054	2,902.19

SHEET NO.
5

CONTROL DIAGRAM

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000
DESIGNED BY: L. ZEIGLER 11/2025
REVIEWED BY:
CHECKED BY: J. CERECK 06/2026
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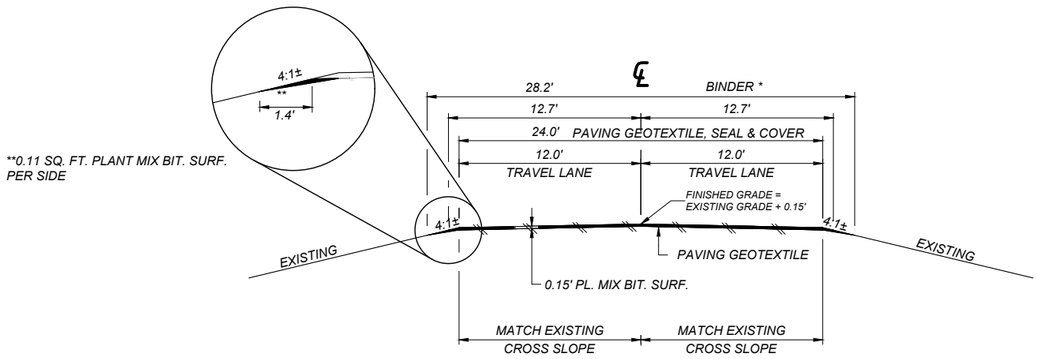
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TYPICAL SECTION NO. 1

MAINLINE



**0.11 SQ. FT. PLANT MIX BIT. SURF. PER SIDE

QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			PAVING GEOTEXTILE
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	ASPHALT BINDER PG 58-28*	
AREA square feet		3.93	square yards PER STATION		267	313	267
cubic yards PER STATION		14.6	tons PER STATION	1.52	0.48		
tons PER STATION		28.1	gals. PER STATION			69	
square yards PER STATION	267						

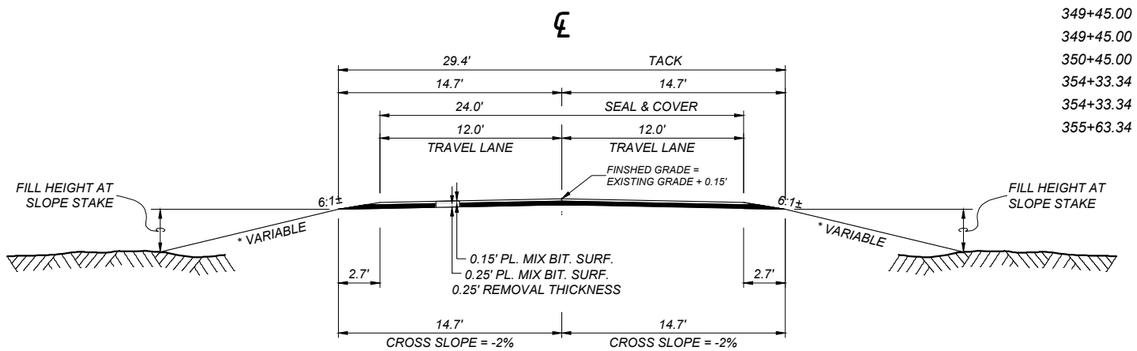
* BASED ON 1 APPLICATION FOR INFORMATION ONLY. SEE SPECIAL PROVISION FOR CONSTRUCTION PROCEDURE.

35+35.00	TO	37+35.00	#BEGIN PROJECT/CONNECTION
37+35.00	TO	53+09.80	
53+09.80	TO	54+91.80	TRANS. TYP. NO. 1 TO TYP. NO. 2
72+13.50	TO	124+00.71	THEN TO TYP. NO. 1A
125+00.71	TO	152+00.00	
152+00.00	TO	154+00.00	TRANS. TYP. NO. 1 TO TYP. NO. 2
165+60.20	TO	179+85.00	THEN TO TYP. NO. 1A
180+85.00	TO	197+00.00	THEN TO TYP. NO. 4
208+00.00	TO	349+45.00	THEN TO TYP. NO. 1A
350+45.00	TO	354+33.34	THEN TO TYP. NO. 1A
355+63.34	TO	408+00.00	THEN TO TYP. NO. 5

#COLD MILL BEGIN CONNECTION 0.15' TO 0.00'.

TYPICAL SECTION NO. 1A

MAINLINE CULVERT REPLACEMENT TRANSITION



*FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		10.68	square yards PER STATION		267	654
cubic yards PER STATION		39.6	tons PER STATION	4.12	0.48	
tons PER STATION		76.3	gals. PER STATION			33
square yards PER STATION	267					

* BASED ON 2 APPLICATIONS

124+00.71			ONLY
124+00.71	TO	124+15.71	TRANS. TYP. NO. 1A TO TYP. NO. 3
125+00.71			ONLY, THEN TO TYP. NO. 1
179+85.00			ONLY
179+85.00	TO	180+00.00	TRANS. TYP. NO. 1A TO TYP. NO. 3
180+85.00			ONLY, THEN TO TYP. NO. 1
349+45.00			ONLY
349+45.00	TO	349+60.00	TRANS. TYP. NO. 1A TO TYP. NO. 3
350+45.00			ONLY, THEN TO TYP. NO. 1
354+33.34			ONLY
354+33.34	TO	354+48.34	TRANS. TYP. NO. 1A TO TYP. NO. 3
355+63.34			ONLY, THEN TO TYP. NO. 1

SHEET NO. 6

TYPICAL SECTIONS

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: L. ZEIGLER 11/2025
REVIEWED BY:
CHECKED BY: J. CERECK 06/2026
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MONTANA Department of Transportation

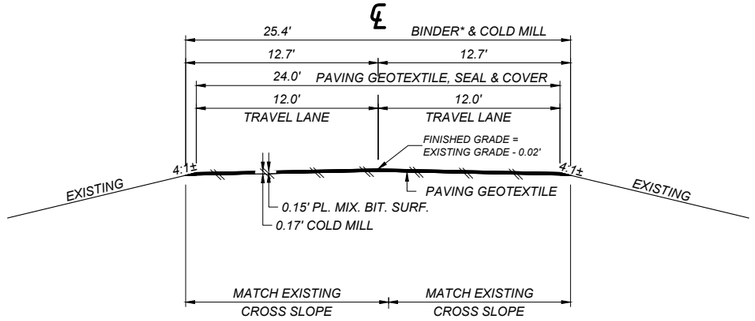
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TYPICAL SECTION NO. 2

MAINLINE



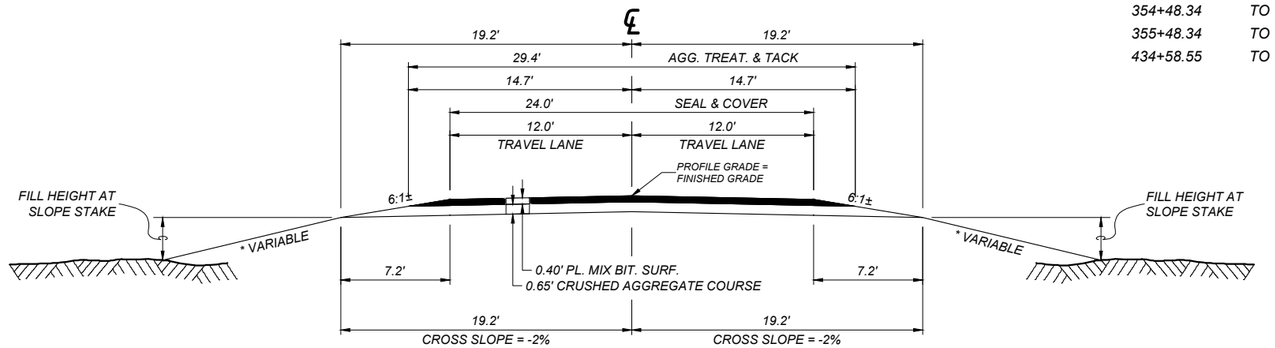
QUANTITIES								
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			COLD MILLING	PAVING GEOTEXTILE
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	ASPHALT BINDER PG 58-28*		
AREA square feet		3.71	square yards PER STATION		267	282	282	267
cubic yards PER STATION		13.7	tons PER STATION	1.43	0.48			
tons PER STATION		26.4	gals. PER STATION			62		
square yards PER STATION	267							

* BASED ON 1 APPLICATION FOR INFORMATION ONLY. SEE SPECIAL PROVISION FOR CONSTRUCTION PROCEDURE.

54+91.80	TO	70+31.50	(5% RT.)
70+31.50	TO	72+13.50	TRANS. TYP. NO. 2 TO TYP. NO. 1
154+00.00	TO	160+20.00	NOT THIS CONTRACT
160+20.00	TO		
163+19.20 BE	TO	163+30.20 BE	STOCKPASS
	TO	163+60.20	
163+60.20	TO	165+60.20	TRANS. TYP. NO. 2 TO TYP. NO. 1

TYPICAL SECTION NO. 3

MAINLINE CULVERT REPLACEMENT



QUANTITIES								
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			AGG. TREATMENT
	COVER	PLANT MIX	CR. AGG. COURSE		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		10.68	22.04	square yards PER STATION		267	654	327
cubic yards PER STATION		39.6	81.6	tons PER STATION	4.12	0.48		
tons PER STATION		76.3		gals. PER STATION			33	
square yards PER STATION	267							

* BASED ON 2 APPLICATIONS

*FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

124+15.71	TO	124+85.71	
124+85.71	TO	125+00.71	TRANS. TYP. NO. 3 TO TYP. NO. 1A
180+00.00	TO	180+70.00	
180+70.00	TO	180+85.00	TRANS. TYP. NO. 3 TO TYP. NO. 1A
349+60.00	TO	350+30.00	
350+30.00	TO	350+45.00	TRANS. TYP. NO. 3 TO TYP. NO. 1A
354+48.34	TO	355+48.34	
355+48.34	TO	355+63.34	TRANS. TYP. NO. 3 TO TYP. NO. 1A
434+58.55	TO	435+43.55	END PROJECT

SHEET NO. 7

TYPICAL SECTIONS

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: L. ZEIGLER 11/2025
REVIEWED BY:
CHECKED BY: J. CERECK 06/2026

1022800RDTYP001.DWG

MONTANA Department of Transportation

ROAD PLANS

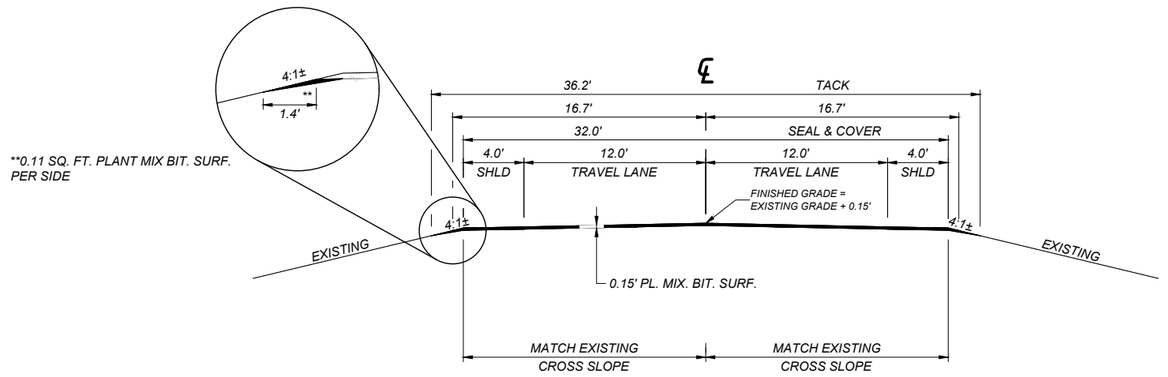
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TYPICAL SECTION NO. 4

MAINLINE

197+00.00 TO 208+00.00 THEN TO TYP. NO. 1



**0.11 SQ. FT. PLANT MIX BIT. SURF. PER SIDE

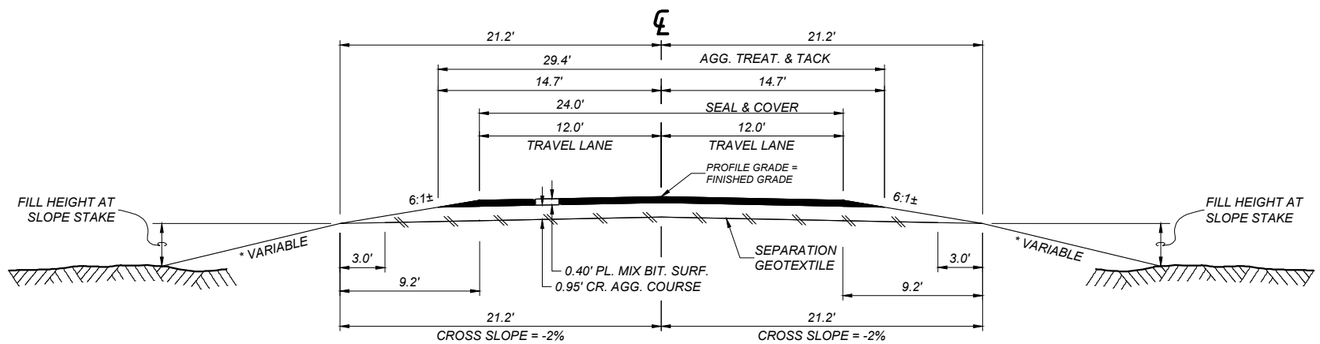
QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		5.02	square yards PER STATION		356	402
cubic yards PER STATION		19.0	tons PER STATION	1.98	0.64	
tons PER STATION		36.6	gals. PER STATION			20
square yards PER STATION	356					

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 5

MAINLINE DIGOUT

408+00.00 TO 408+82.93
408+82.93 TO 410+64.93 TRANS. TYP. NO. 5 TO TYP. NO. 6 (5% LT.)
428+96.08 TO 434+43.55
434+43.55 TO 434+58.55 TRANS. TYP. NO. 5 TO TYP. NO. 3



GEOTEXTILE BEGIN AND END STATIONS:
STA. 408+00.00 TO STA. 434+43.55

QUANTITIES									
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			AGG. TREATMENT	SEPARATION GEOTEXTILE
	COVER	PLANT MIX	CR. AGG. COURSE		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*		
AREA square feet		10.68	34.11	square yards PER STATION		267	654	327	404
cubic yards PER STATION		39.6	126.3	tons PER STATION	4.12	0.48			
tons PER STATION		76.3		gals. PER STATION			33		
square yards PER STATION	267								

* BASED ON 2 APPLICATIONS

*FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

SHEET NO. 8

TYPICAL SECTIONS

PROJECT NAME SOUTH OF OPHEIM-SOUTH
COUNTY VALLEY
PROJECT ID STPP 31-1(30)26
UPN 10228000

DESIGNED BY L. ZEIGLER 11/2025
REVIEWED BY
CHECKED BY J. CERECK 06/2026
10228000RDTYP001.DWG

MONTANA Department of Transportation

ROAD PLANS

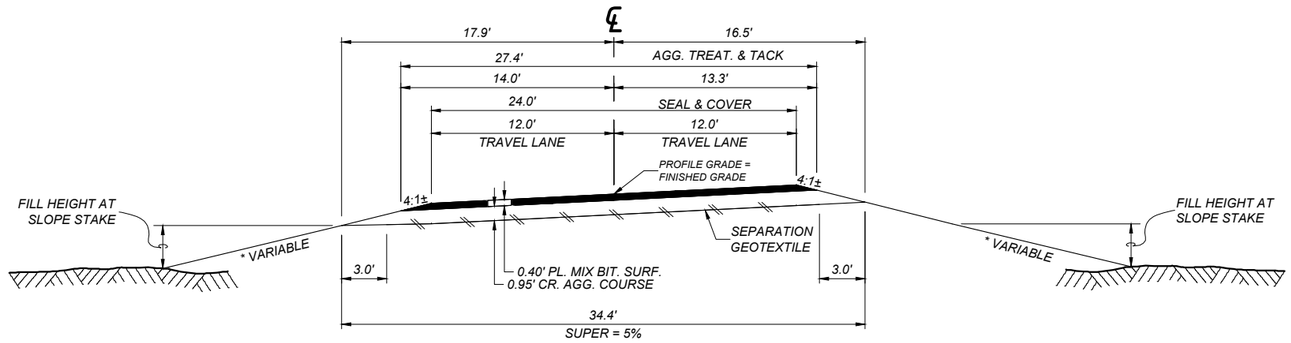
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410+64.93	TO	427+14.08	(5% LT.)	
427+14.08				
427+55.80	BK =	427+54.00	AH	EQUATION (+1.80')
	TO	428+96.08		TRANS. TYP. NO. 6 TO TYP. NO. 5

TYPICAL SECTION NO. 6

MAINLINE



*FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

FOR QUANTITIES SEE TYPICAL NO. 5

SHEET NO.
9

TYPICAL SECTIONS

PROJECT NAME SOUTH OF OPHEIM-SOUTH
COUNTY VALLEY
PROJECT ID STPP 31-1(30)26
UPN 10228000

DESIGNED BY L. ZEIGLER 11/2025
REVIEWED BY
CHECKED BY J. CERECK 06/2026

MONTANA Department of Transportation

ROAD PLANS

9/2/2026 9:01 AM 1022800RDTYP001.DWG

ADVERTISED COPY

SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. 3/4"	AGGREGATE tons PLANT MIX BIT. SURF. MISC.	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL tons ASPHALT BINDER PG 58H-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards PETROMAT PAVING GEOTEXTILE	sq. yards SEPARATION GEOTEXTILE	sq. yards AGG. TREAT.	REMARKS
35+35.00	53+09.80	1,774.80	1,774.80					4,739	499			27.0	8.5		4,739			TYP. NO. 1
53+09.80	54+91.80	182.00	182.00					486	50			2.7	0.9		486			TRANS. TYP. NO. 1 TO TYP. NO. 2
54+91.80	70+31.50	1,539.70	1,539.70					4,111	406			22.0	7.4		4,111			TYP. NO. 2
70+31.50	72+13.50	182.00	182.00					486	50			2.7	0.9		486			TRANS. TYP. NO. 2 TO TYP. NO. 1
72+13.50	124+00.71	5,187.21	5,187.21					13,850	1,458			78.8	24.9		13,850			TYP. NO. 1
124+00.71	124+15.71	15.00	15.00					40	11		6	0.6	0.1	3			25	TRANS. TYP. NO. 1A TO TYP. NO. 3
124+15.71	124+85.71	70.00	70.00					187	53		57	2.9	0.3	23			229	TYP. NO. 3
124+85.71	125+00.71	15.00	15.00					40	11		6	0.6	0.1	3			25	TRANS. TYP. NO. 3 TO TYP. NO. 1A
125+00.71	152+00.00	2,699.29	2,699.29					7,207	759			41.0	13.0		7,207			TYP. NO. 1
152+00.00	154+00.00	200.00	200.00					534	55			3.0	1.0		534			TRANS. TYP. NO. 1 TO TYP. NO. 2
154+00.00	160+20.00	620.00	0.00		620.00	NOT THIS CONTRACT												
						ADDITIONAL SURFACING			800	9		43.8		13				
SUBTOTAL		**12,485.00**	**11,865.00**		**620.00**		**58**	**31,680**	**4,152**	**9**	**69**	**225.1**	**57.1**	**42**	**31,412**		**279**	**NON-RESERVATION**
160+20.00	163+19.20	299.20	299.20					799	79			4.3	1.4		799			TYP. NO. 2
163+19.20 BE	163+30.20 BE	11.00	11.00			STOCKPASS		29	3			0.2	0.1		29			TYP. NO. 2
163+30.20	163+60.20	30.00	30.00					80	8			0.4	0.1		80			TYP. NO. 2
163+60.20	165+60.20	200.00	200.00					534	55			3.0	1.0		534			TRANS. TYP. NO. 2 TO TYP. NO. 1
165+60.20	179+85.00	1,424.80	1,424.80					3,804	400			21.7	6.8		3,804			TYP. NO. 1
179+85.00	180+00.00	15.00	15.00					40	11		6	6.0	0.1	3			25	TRANS. TYP. NO. 1A TO TYP. NO. 3
180+00.00	180+70.00	70.00	70.00					187	53		57	2.9	0.3	23			229	TYP. NO. 3
180+70.00	180+85.00	15.00	15.00					40	11		6	0.6	0.1	3			25	TRANS. TYP. NO. 3 TO TYP. NO. 1A
180+85.00	197+00.00	1,615.00	1,615.00					4,312	454			24.5	7.8		4,312			TYP. NO. 1
197+00.00	208+00.00	1,100.00	1,100.00					3,916	403			21.8	7.0	220				TYP. NO. 4
208+00.00	349+45.00	14,145.00	14,145.00					37,767	3,975			215.0	67.9		37,767			TYP. NO. 1
349+45.00	349+60.00	15.00	15.00					40	11		6	0.6	0.1	3			25	TRANS. TYP. NO. 1A TO TYP. NO. 3
349+60.00	350+30.00	70.00	70.00					187	53		57	2.9	0.3	23			229	TYP. NO. 3
350+30.00	350+45.00	15.00	15.00					40	11		6	0.6	0.1	3			25	TRANS. TYP. NO. 3 TO TYP. NO. 1A
350+45.00	354+33.34	388.34	388.34					1,037	109			5.9	1.9		1,037			TYP. NO. 1
354+33.34	354+48.34	15.00	15.00					40	11		6	0.6	0.1	3			25	TRANS. TYP. NO. 1A TO TYP. NO. 3
354+48.34	355+48.34	100.00	100.00					267	76		82	4.1	0.5	33			327	TYP. NO. 3
355+48.34	355+63.34	15.00	15.00					40	11		6	0.6	0.1	3			25	TRANS. TYP. NO. 3 TO TYP. NO. 1A
355+63.34	408+00.00	5,236.66	5,236.66					13,982	1,472			79.6	25.1		13,982			TYP. NO. 1
408+00.00	408+82.93	82.93	82.93					221	63		105	3.4	0.4	27		335	271	TYP. NO. 5
408+82.93	410+64.93	182.00	182.00					486	139		230	7.5	0.9	60		735	595	TRANS. TYP. NO. 5 TO TYP. NO. 6
410+64.93	427+14.08	1,649.15	1,649.15					4,403	1,258		2,083	67.9	7.9	544		6,663	5,393	TYP. NO. 6
427+14.08																		
427+55.80 BK	427+54.00 AH			1.80		STATION EQUATION												
	428+96.08	182.00	183.80					491	140		232	7.6	0.9	61		743	601	TRANS. TYP. NO. 6 TO TYP. NO. 5
428+96.08	434+43.55	547.47	547.47					1,462	418		691	22.6	2.6	181		2,212	1,790	TYP. NO. 5
434+43.55	434+58.55	15.00	15.00					40	11		16	0.6	0.1	5		25	49	TRANS. TYP. NO. 5 TO TYP. NO. 3
434+58.55	435+43.55	85.00	85.00					227	65		69	3.5	0.4	28			278	TYP. NO 3
						ADDITIONAL SURFACING			2,006	117		115.4		160				
SUBTOTAL- FORT PECK IND. RES.		**27,523.55**	**27,525.35**	**1.80**			**158**	**74,471**	**11,306**	**117**	**3,658**	**623.8**	**134.0**	**1,383**	**62,344**	**10,713**	**9,912**	**FORT PECK INDIAN RESERVATION**
TOTAL		**40,008.55**	**39,390.35**	**1.80**	**620.00**		**216**	**106,151**	**15,458**	**126**	**3,727**	**848.9**	**191.1**	**1,425**	**93,756**	**10,713**	**10,191**	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. 3/4"	AGGREGATE tons PLANT MIX BIT. SURF. MISC.	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL tons ASPHALT BINDER PG 58H-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards PETROMAT PAVING GEOTEXTILE	sq. yards SEPARATION GEOTEXTILE	sq. yards AGG. TREAT.	REMARKS
						1 PUBLIC APPROACH			13			0.7		7				
						3 FARM FIELD APPROACHES				9		0.6		6				
						LEVELING			787			42.5						
SUBTOTAL		~	~	~	~		~	~	**800**	**9**	~	**43.8**	~	**13**	~	~	~	**NON-RESERVATION**
						7 PUBLIC APPROACHES			181			9.8		92				
						3 PRIVATE APPROACHES				63		3.4		32				
						18 FARM FIELD APPROACHES				54		3.6		36				
						LEVELING			1,825			98.6						
SUBTOTAL-FORT PECK IND. RES.		~	~	~	~		~	~	**2,006**	**117**	~	**115.4**	~	**160**	~	~	~	**FORT PECK INDIAN RESERVATION**
SUBTOTAL		~	~	~	~		~	~	**2,806**	**126**	~	**159.2**	~	**173**	~	~	~	

SHEET NO. 10

SUMMARY

PROJECT NAME SOUTH OF OPHEIM-SOUTH
COUNTY VALLEY
PROJECT ID STPP 31-1(30)26
UPN 10228000

DESIGNED BY L. ZEIGLER 11/2025
REVIEWED BY
CHECKED BY J. CERECK 06/2026
10228000RDSUM001.DWG

MONTANA Department of Transportation
ROAD PLANS

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SUMMARY

COLD MILLING *

STATION		sq. yards COLD MILLING			REMARKS
FROM	TO	0.00' TO 0.15'	0.00' TO 0.17'	0.17'	
35+35.00	37+35.00	564			25.4' WIDTH
53+09.80	54+91.80		514		25.4' WIDTH
54+91.80	70+31.50			4,345	25.4' WIDTH
70+31.50	72+13.50		514		25.4' WIDTH
152+00.00	154+00.00		564		25.4' WIDTH
SUBTOTAL		**564**	**1,592**	**4,345**	**NON-RESERVATION**
160+20.00	163+60.20			960	25.4' WIDTH
163+60.20	165+60.20		564		25.4' WIDTH
406+00.00	408+00.00	564			25.2' WIDTH
SUBTOTAL		**564**	**564**	**960**	**FORT PECK INDIAN RESERVATION**
TOTAL			**8,589**		

*SEE DETAIL AND TYPICAL SECTIONS

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
NON-RESERVATION				
STRIPING - WHITE PAINT	gallon	166		166
STRIPING - YELLOW PAINT	gallon	64		64
STRIPING - WHITE EPOXY	gallon		111	111
STRIPING - YELLOW EPOXY	gallon		43	43
TEMPORARY STRIPING	linear feet			9,294
FINAL SWEEP AND BROOM	course mile			2.3
FORT PECK INDIAN RESERVATION				
STRIPING - WHITE PAINT	gallon	388		388
STRIPING - YELLOW PAINT	gallon	150		150
STRIPING - WHITE EPOXY	gallon		259	259
STRIPING - YELLOW EPOXY	gallon		99	99
TEMPORARY STRIPING	linear feet			21,684
FINAL SWEEP AND BROOM	course mile			5.3

BASED ON 2 APPLICATIONS.

MAILBOXES

STATION	each MAILBOXES-EXTRA LARGE	REMARKS
355+62	2	RT.
TOTAL	**2**	**FORT PECK INDIAN RESERVATION**

GRADING

STATION	cu. yards EXC. #	cu. yards EMB. IN PLACE	REMARKS
124+00.71			
	115	95	CULVERT REPLACEMENT STA. 124+51
125+00.71			
SUBTOTAL	**115**	**95**	**NON-RESERVATION**
179+85.00			
	115	50	CULVERT REPLACEMENT STA. 180+35
180+85.00			
349+45.00			
	120	75	CULVERT REPLACEMENT STA. 349+95
350+45.00			
354+33.34			
	190	235	CULVERT REPLACEMENTS STA. 354+99
355+63.34			
408+00.00			
	3,465	4,810	CURVE RECONSTRUCT
434+43.55			
434+43.55			
	115	80	CULVERT REPLACEMENT STA. 434+79
435+43.55			
		6,645	TOPSOIL REPLACEMENT
		10	ADDITIONAL GRADING
SUBTOTAL	**4,005**	**11,905**	**FORT PECK INDIAN RESERVATIONS**
TOTAL	**4,120 #**	**12,000**	

FOR INFORMATION ONLY

TOPSOIL & SEEDING

STATION FROM	STATION TO	cu. yards TOPSOIL SALVAGING & PLACING	acres SEED NO. 1	SEED NO. 3	FERTILIZER NO. 1	CONDITION SEEDBED #	REMARKS
124+00.71	125+00.71	55	0.1	0.1	0.1	0.2	CULVERT REPLACEMENT SITE (1)
		1,351					OVERLAY-VARIOUS LOCATIONS
SUBTOTAL		**1,406**	**0.1**	**0.1**	**0.1**		**NON-RESERVATION**
408+82.93	434+43.55	1,854	1.7	1.8	1.7	3.5	CURVE RECONSTRUCTION
		232	0.1	0.2	0.1	0.3	CULVERT REPLACEMENT SITES (4)
		3,153		8.5		8.5	OVERLAY-VARIOUS LOCATIONS
SUBTOTAL		**5,239**	**1.8**	**10.5**	**1.8**		**FORT PECK INDIAN RESERVATION**
TOTAL		**6,645**	**1.9**	**10.6**	**1.9**	~	

FOR INFORMATION ONLY - INCLUDED IN THE COST OF SEEDING AREA NO.1 & SEEDING AREA NO. 3

ADDITIONAL GRADING

STATION FROM	STATION TO	cu. yards EXC. #	cu. yards EMB. IN PLACE	REMARKS
	180+18		5	DITCH BLOCK LT. - ELEV. 2738.70'
	434+71		5	DITCH BLOCK RT. - ELEV. 2934.50'
SUBTOTAL		~	**10**	

RUMBLE STRIPS

STATION FROM	STATION TO	miles RUMBLE STRIPS CENTERLINE TYPE 1	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
35+35	154+00.00	2.2	258	
SUBTOTAL		**2.2**	**258**	**NON-RESERVATION**
160+20.00	435+43.55	5.2	610	
SUBTOTAL		**5.2**	**610**	**FORT PECK INDIAN RESERVATION**
TOTAL		**7.4**	**868**	

FOR INFORMATION ONLY

EQUIPMENT

STATION FROM	STATION TO	hours MOTOR GRADER	REMARKS
35+35	154+00	5.0	CLEAR VEGETATION FROM SURF IN-SLOPE
		1.5	SHAPE FARM FIELD APPROACHES
		0.5	SHAPE PUBLIC APPROACHES
SUBTOTAL		**7.0**	**NON-RESERVATION**
160+20	435+43.55	13.0	CLEAR VEGETATION FROM SURF IN-SLOPE
		9.0	SHAPE FARM FIELD APPROACHES
		1.5	SHAPE PRIVATE APPROACHES
		3.5	SHAPE PUBLIC APPROACHES
SUBTOTAL		**27.0**	**FORT PECK INDIAN RESERVATION**
TOTAL		**34.0**	

SHEET NO. 11

SUMMARY

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: L. ZEIGLER 11/2025
REVIEWED BY:
CHECKED BY: J. CERECK 06/2026

MONTANA Department of Transportation

ROAD PLANS

10228000RDSUM001.DWG

9/2/2026 9:01 AM

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SUMMARY

CULVERTS (INCLUDED IN CULVERT SUMMARY RECAP)

STATION	BASIC BID ITEMS: CULVERT PIPE in	linear feet: LENGTH OF PIPE	linear feet: REMOVE PIPE CULVERT	cu. yards: FOUND-ATION MATERIAL	cu. yards: GRANULAR BEDDING MATERIAL	cu. yards: SPECIAL BACKFILL	cu. yards: CONCRETE - CLASS GENERAL	sq. yards: GEOTEXT. STAB.	PIPE OPTIONS in: STEEL - 2 2/3 X 1/2 CORR. CONCRETE ALUMINUM - 2 2/3 x 1/2 CORR.	PIPE OPTIONS in: CLASS OR THK.	PIPE OPTIONS in: COATING *	END SECTIONS: LEFT	END SECTIONS: RIGHT	cu. yards: FOUND-ATION MATERIAL	cu. yards: GRANULAR BEDDING MATERIAL	cu. yards: SPECIAL BACKFILL	cu. yards: CONCRETE - CLASS GENERAL	sq. yards: GEOTEXT. STAB.	linear feet: HEIGHT OF COVER	SKEW ANGLE	CULVERT IN PL. in x ft	REMARKS
99+00	24	4	4						24 CSP	-	-	FETS									24 X 77 CMP	USE IN PLACE REMOVE 4.0' LT. NEW FETS LT.
124+51	30	70	68	34		268		155	30 CSP 30 RCP 30 CAP	0.079 CL 2 0.075	YES	FETS FETS FETS	FETS FETS FETS	34 34		268 268		155 155	4.0		30 X 68 CMP	DR.
128+96	24	4	6						24 CSP	0.079	YES		FETS								24 X 69 CMP	USE IN PLACE REMOVE 6.0' RT. NEW FETS RT.
139+00	24	4	3						24 CSP	0.079	YES		FETS								24 X 69 CMP	USE IN PLACE REMOVE 3.0' RT. NEW FETS RT.
180+35	60 EQ	72	75	54	50	182	3.8	218	73 X 45 RCPA	CL 2		FETS W/CO WALLS	FETS W/CO WALLS						3.0		48 X 75 CMP	DR. - EMBEDDED 0.40'
279+93	36	8	10						36 CSP	0.079	YES	FETS	FETS								36 X 67 CMP	USE IN PLACE-REGRADE PIPE ENDS REMOVE 5.0' RT. & 5.0' LT. NEW FETS LT. & RT.
330+45	24	4	2						24 CSP	0.079	YES	FETS									24 X 61 CMP	USE IN PLACE REMOVE 2.0' LT. NEW FETS LT.
335+34	24	8	10						24 CSP	0.079	YES	FETS	FETS								24 X 59 CMP	USE IN PLACE REMOVE 4.0' RT. & 6.0' LT. NEW FETS LT. & RT.
349+95	36	66	68	34		175		154	36 CSP 36 RCP 36 CAP	0.079 CL 2 0.075	YES	FETS FETS FETS	FETS FETS FETS	34 34		175 175		154 154	3.1	3° LT.	30 X 68 CMP	DR,
354+99	90	76		72	91	232	5.0	252	90 RCP	CL 2		FETS W/CO WALLS	FETS W/CO WALLS						3.4			DR. - EMBEDDED 0.80'
355+04			306																		48 X 102 TRIPLE CMP	REMOVE
360+18	24	8	8						24 CSP	0.079	YES	FETS	FETS								24 X 69 CMP	USE IN PLACE REMOVE 4.0' RT. & 4.0' LT. NEW FETS LT. & RT.
401+95	48	10	10						48 CSP	0.079	YES	FETS	FETS								48 X 63 CMP	USE IN PLACE-REGRADE PIPE ENDS REMOVE 6.0' RT. & 4.0' LT. NEW FETS LT. & RT.
434+79	30	62	62	20		141		38	30 CSP 30 RCP 30 CAP	0.079 CL 2 0.075	YES	FETS FETS FETS	FETS FETS FETS	30 30		141 141		83 83	2.8		24 X 62 CMP	DR.
TOTAL	~	~	**632**	**214**	**141**	**998**	**8.8**	**817**	~	~	~	~	~	~	~	~	~	~	~	~	~	

* SEE STANDARD SPEC. SEC. 709.05 OR 709.12

CULVERT SUMMARY RECAP

BASIC BID	linear feet: NEW PIPE (TOTAL)	linear feet: REMOVE PIPE CULVERT	cu. yards: FOUND-ATION MATERIAL	cu. yards: GRANULAR BEDDING MATERIAL	cu. yards: SPECIAL BACKFILL	cu. yards: CONCRETE - CLASS GENERAL	sq. yards: GEOTEXT. STAB.
24" CSP	12						
30" DR	70						
SUBTOTAL-NON-RESERVATION	~	**81**	**34**	~	**268**	~	**155**
24" CSP	20						
30" DR	62						
36" DR	66						
36" CSP	8						
48" CSP	10						
60" EQ DIA RCPA	72						
90" RCP	76						
SUBTOTAL-FORT PECK IND. RES.	~	**551**	**180**	**141**	**730**	**8.8**	**641**
TOTAL	~	**632**	**214**	**141**	**998**	**8.8**	**796**

SHEET NO. 12

SUMMARY

PROJECT NAME: SOUTH OF OPHEIM-SCOBEY
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: L. ZEIGLER 11/2025
REVIEWED BY:
CHECKED BY: J. CERECK 06/2026
10228000RDSUM001.DWG

MONTANA Department of Transportation

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HYDRAULIC DATA SUMMARY *

STATION	STREAM NAME (IF NAMED)	DRAINAGE AREA (mi^2)	SIZE/TYPE STRUCTURE ① ② ⑤	DESIGN FLOOD			BASE FLOOD (1%)		OVERTOPPING FLOOD ③ ④			REMARKS (FLOOD OF RECORD, Qp(max), etc.) ⑥
				MAGNITUDE (cfs)	FREQUENCY (%)	H.W. ELEV. (ft)	MAGNITUDE (cfs)	H.W. ELEV. (ft)	MAGNITUDE (cfs)	APPROX. FREQUENCY (%)	H.W. ELEV. (ft)	
124+51	-	0.04	30" CMP	22	2	2790.3	27	2790.6	23	2	2790.4	
180+35	-	0.34	60" RCPA	98	2	2738.7	141	2739.2	99	2	2738.7	
349+95	-	0.09	36" CMP	59	2	2859.6	71	2859.7	34	10	2859.1	Headwater exception
354+99	-	4.22	90" RCP	417	2	2858.6	580	2860.7	495	1.4	2860.4	
434+94	-	0.03	30" CMP	15	2	2934.5	18	2934.6	16	2	2934.5	

NOTES:
* H.W. ELEVATIONS SHOWN ARE BASED UPON PEAK FLOW ANALYSIS UNLESS NOTED IN REMARKS COLUMN.
ADDITIONAL GUIDANCE ON THE HYDRAULIC DATA SUMMARY SHEET CAN BE FOUND IN SECTION 11.8.2 OF THE HYDRAULICS MANUAL.

① STRUCTURE SIZE OR TYPE AND RELATED HYDRAULIC DATA MAY NOT REFLECT CHANGES MADE DUE TO R/W OR OTHER CONSIDERATIONS (I.E. STOCKPASS ADDED, STRUCTURE SIZE OR TYPE CHANGED, ROAD GRADE CHANGED DURING CONSTRUCTION, ETC.)

② BRIDGE TOP LENGTH AND NUMBER OF SPANS OR BASE BID CULVERT SIZE AND SHAPE.

③ OVERTOPPING IS DEFINED AS FLOW OVER THE ROAD, FLOW THROUGH A SIGNIFICANT RELIEF STRUCTURE OR FLOW OVER THE BASIN DIVIDE WHICHEVER IS LOWER.

④ FOR THOSE CROSSINGS NOTED BY Qp(max) IN THE REMARKS COLUMN, OVERTOPPING DOES NOT OCCUR THROUGH THE Qp(max) EVENT. Qp(max) IS THE 200 YEAR EVENT FOR CULVERTS AND THE 500 YEAR EVENT FOR BRIDGES.

⑤ HEAD WATER ELEVATIONS MAY VARY SLIGHTLY DEPENDING UPON THE PIPE OPTION SELECTED.

⑥ NOTE ANY CULVERTS THAT WERE SIZED USING THE HEADWATER EXCEPTION PROCEDURE PER SECTION 11.3.1.3.2 OF THE HYDRAULICS MANUAL. (FORMERLY CALLED PM10.)

EXCEEDANCE PROBABILITY	
25 YEAR	4% CHANCE
50 YEAR	2% CHANCE
100 YEAR	1% CHANCE
200 YEAR	0.5% CHANCE
500 YEAR	0.2% CHANCE

SHEET NO. 13

HYDRAULIC DATA SUMMARY

PROJECT NAME SOUTH OF OPHEIM-SOUTH
COUNTY VALLEY
PROJECT ID STPP 31-1(30)26
UPN 10228000

DESIGNED BY G. METZGER 12/2025
REVIEWED BY
CHECKED BY J. CERECK 06/2026

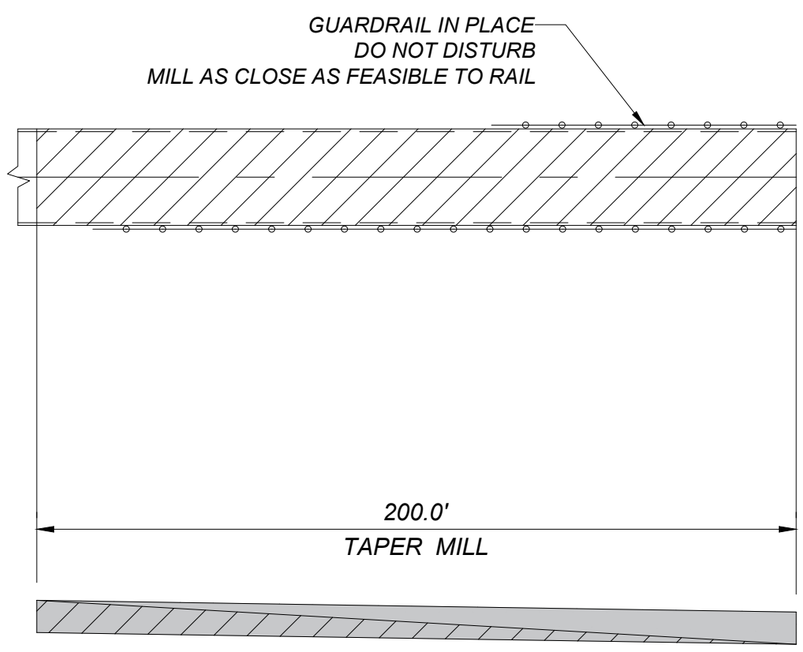
MONTANA Department of Transportation

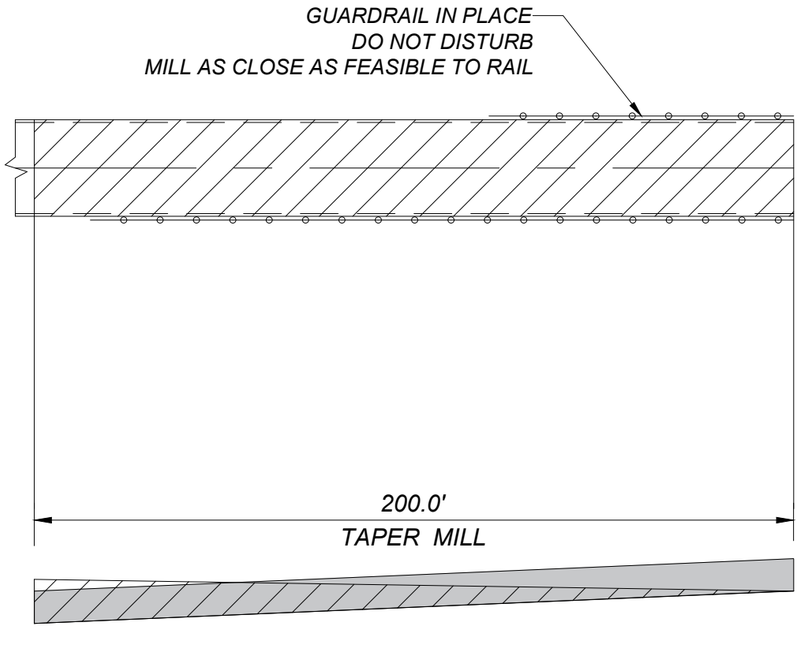
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0.15' PLANT MIX BIT. SURF.

TAPER MILL 0.15' TO 0.00'

0.15' PLANT MIX BIT. SURF.

TAPER MILL 0.17' TO 0.00'

SEE COLD MILLING FRAME
AND TYPICALS FOR STATIONS

SHEET NO.
14

DETAIL - TAPER MILL CONNECTION

PROJECT NAME SOUTH OF OPHEIM-SOUTH
COUNTY VALLEY
PROJECT ID STPP 31-1(30)26
UPN 10228000

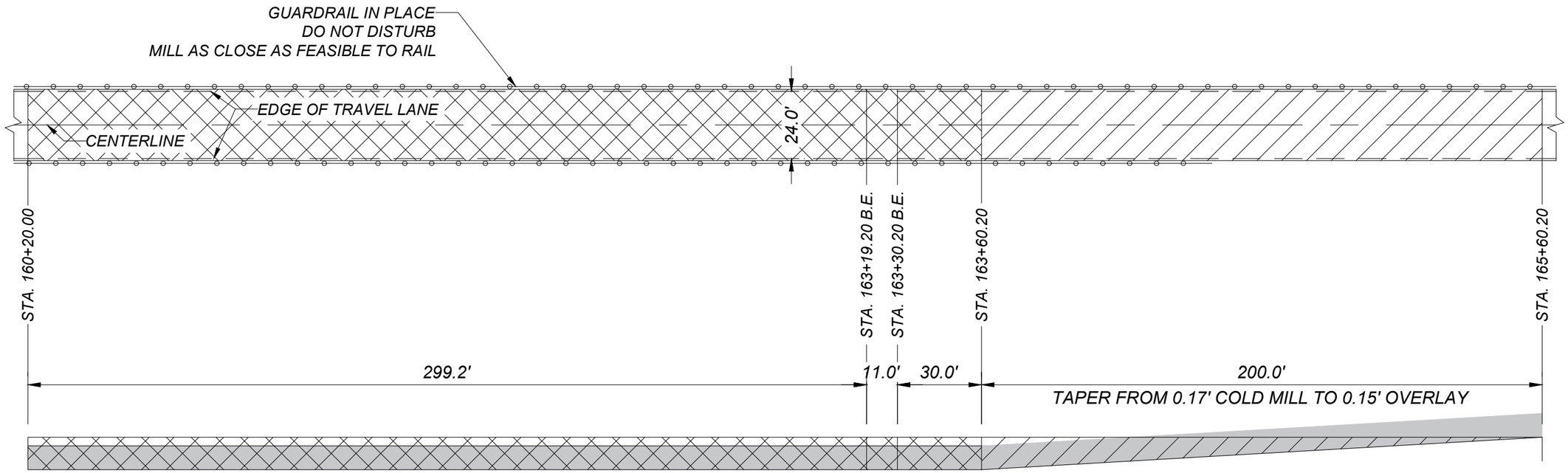
DESIGNED BY L. ZEIGLER 11/2025
REVIEWED BY
CHECKED BY J. CERECK 06/2026
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MONTANA Department of Transportation
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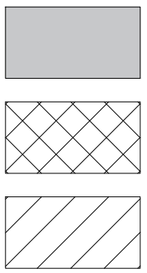
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PLAN



PROFILE



SHEET NO. 15

DETAIL - COLD MILLING AND TAPER MILL CONNECTION

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: L. ZEIGLER 11/2025
REVIEWED BY:
CHECKED BY: J. CERECK 06/2026

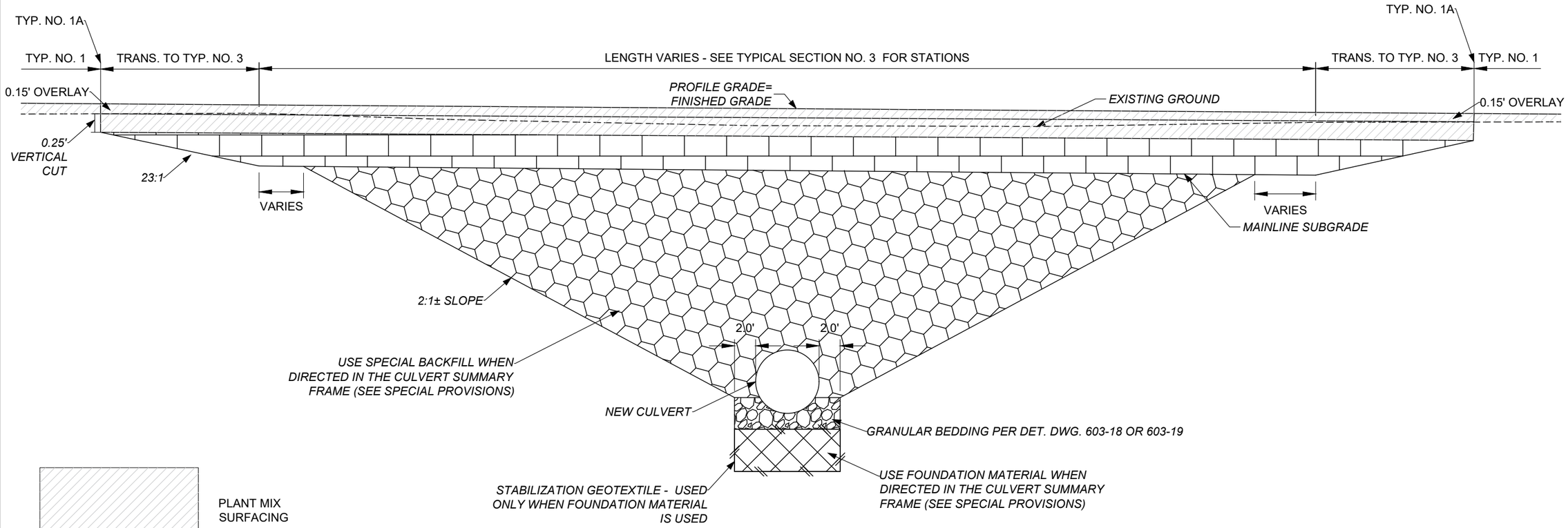
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PLANT MIX SURFACING

CAC

CULVERT EXCAVATION & BACKFILL

CULVERT LOCATION:
124+51
180+35
349+95
354+99
434+79

NOTE:

EXCAVATION & CULVERT BACKFILL PER DET. DWG. 603-18 OR 603-19.

INCLUDE COST OF CULVERT EXCAVATION IN THE COST OF NEW CULVERTS.

SHEET NO. 16

DETAIL - CULVERT EXCAVATION & REPLACEMENT

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY	REVIEWED BY	CHECKED BY
L. ZEIGLER 11/2025		J. CERECK 06/2026

MONTANA Department of Transportation

ROAD PLANS

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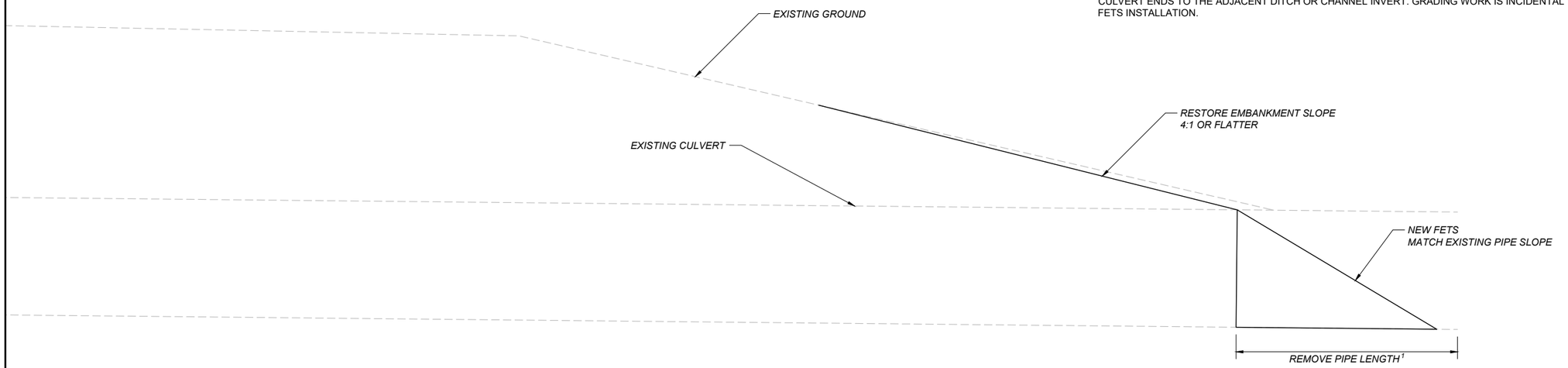
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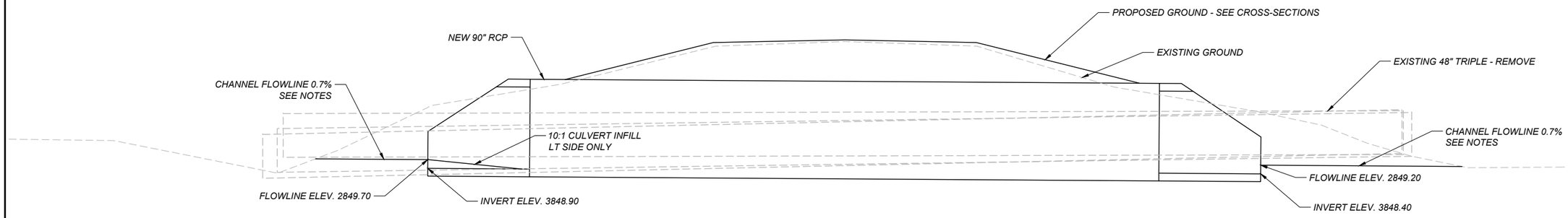
DETAIL

NOTES:

1. REMOVE CULVERT LENGTH AS NOTED IN THE CULVERT SUMMARY FRAME.
2. INSTALL NEW FETS. REGRADE AROUND PIPE ENDS TO FIX EROSION AND UNDERMINING AND TIE NEW CULVERT ENDS TO THE ADJACENT DITCH OR CHANNEL INVERT. GRADING WORK IS INCIDENTAL TO THE NEW FETS INSTALLATION.



DAMAGED CULVERT END REPLACEMENT



STA 354+99 GRADING DETAIL

NOTES:

1. REMOVE EXISTING CULVERTS.
2. RESTORE CHANNEL FLOWLINE TO THE ELEVATIONS SHOWN AT CULVERT ENDS. GRADE FLOWLINE TO APPROX. 0.7% SLOPING LT TO RT TO DAYLIGHT. USE CHANNEL MATERIAL SALVAGED DURING CULVERT REMOVAL.
3. GRADE CHANNEL SIDES TO MATCH EXISTING GROUND.
4. LIMIT CHANNEL GRADING TO EXTENTS DISTURBED BY EXISTING CULVERT REMOVAL.
5. INFILL CULVERT INLET (LT) WITH SALVAGED STREAMBED MATERIAL AT 10:1 TO MEET CULVERT INVERT.
6. GRADING WORK AND SALVAGED STREAMBED MATERIAL IS INCIDENTAL TO THE NEW CULVERT INSTALLATION.

SHEET NO. 17

CULVERT DETAILS (NO SCALE)

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

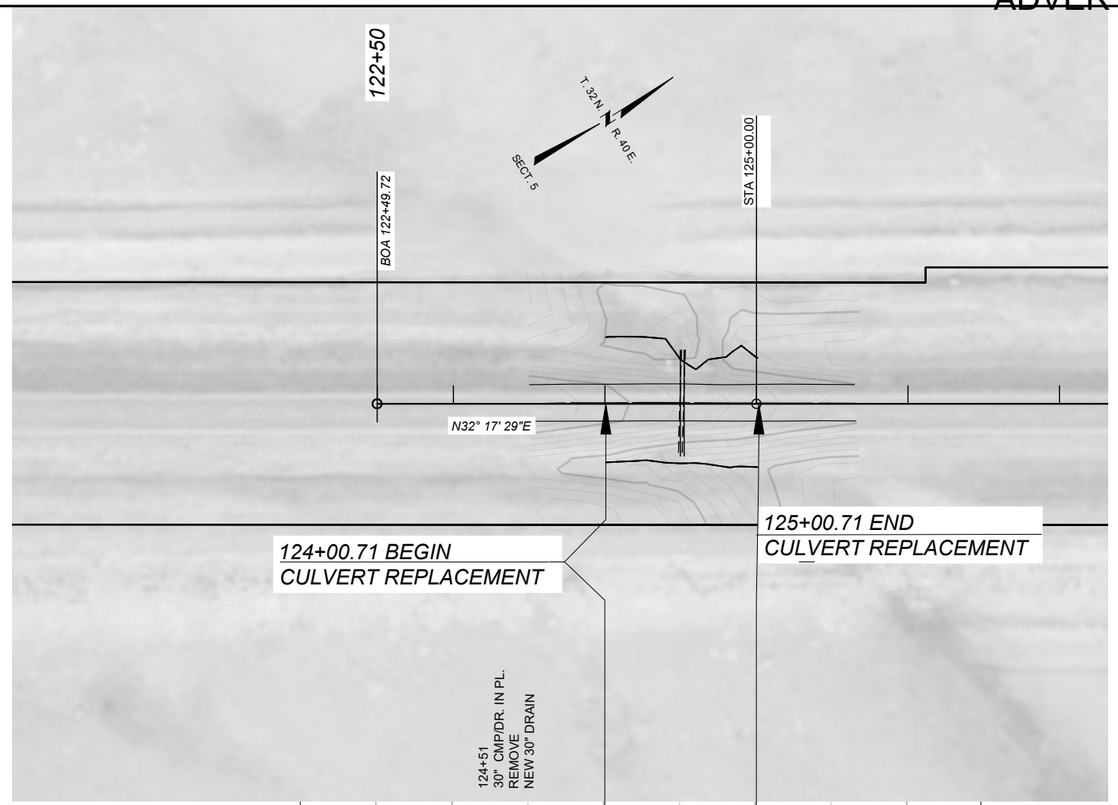
DESIGNED BY	12/2025	REVIEWED BY	CHECKED BY	06/2026
G METZGER			J. CERECK	10288000HYDET001.DWG

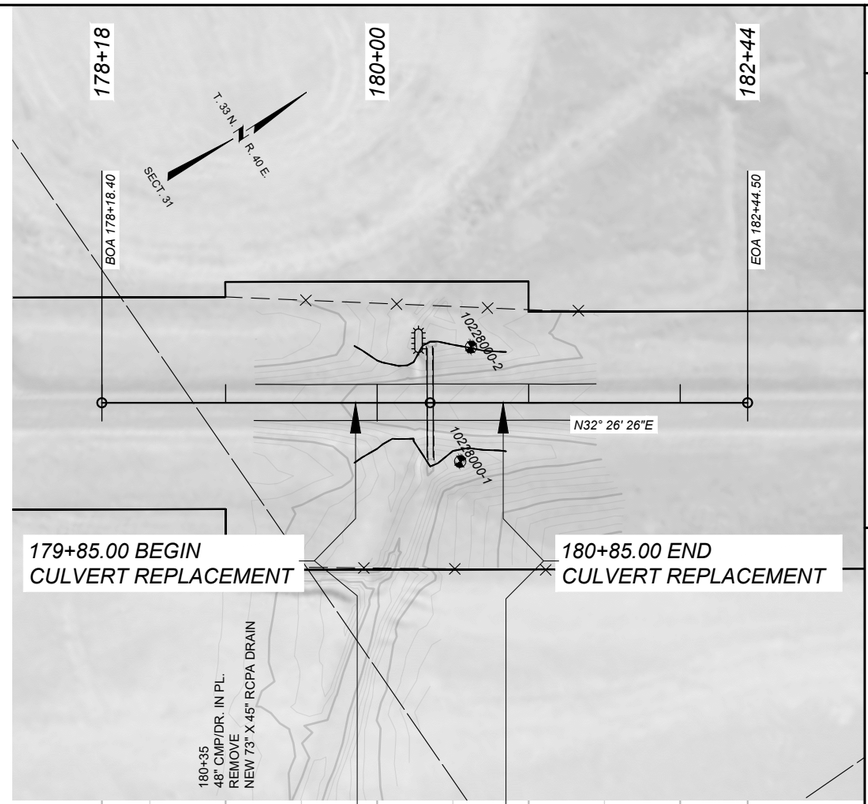
MONTANA Department of Transportation

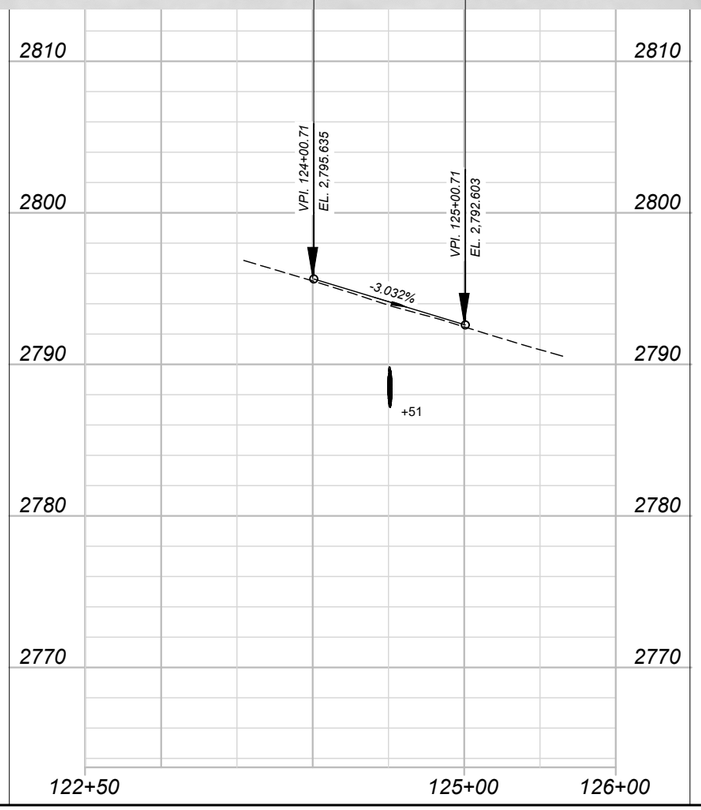
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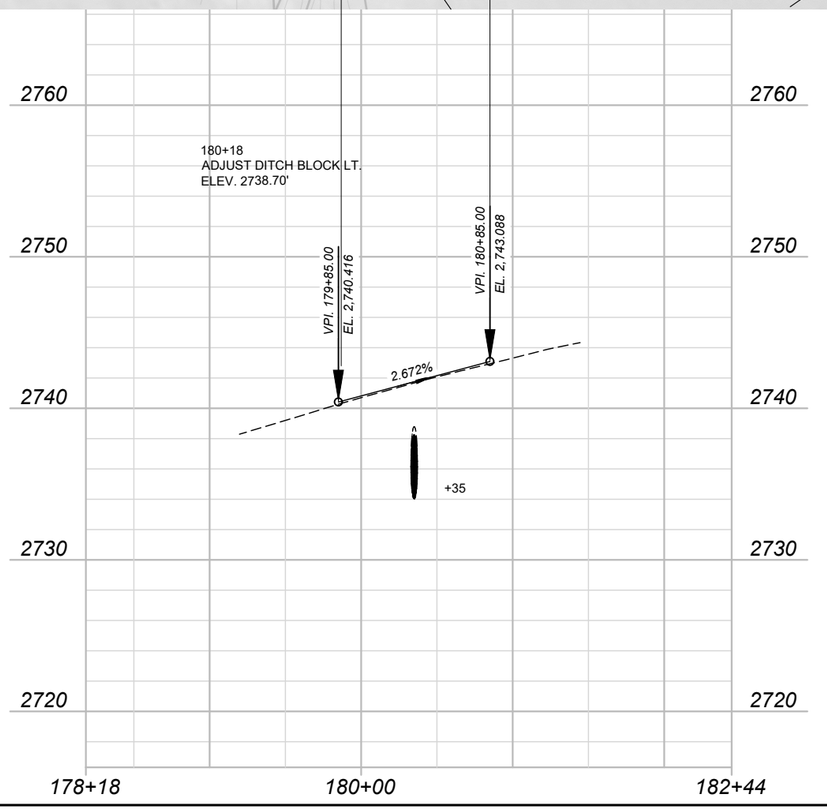
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SHEET NO.
18

PLAN & PROFILE

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY		REVIEWED BY		CHECKED BY	
L. ZEIGLER	11/2025			J. CERECK	06/2026

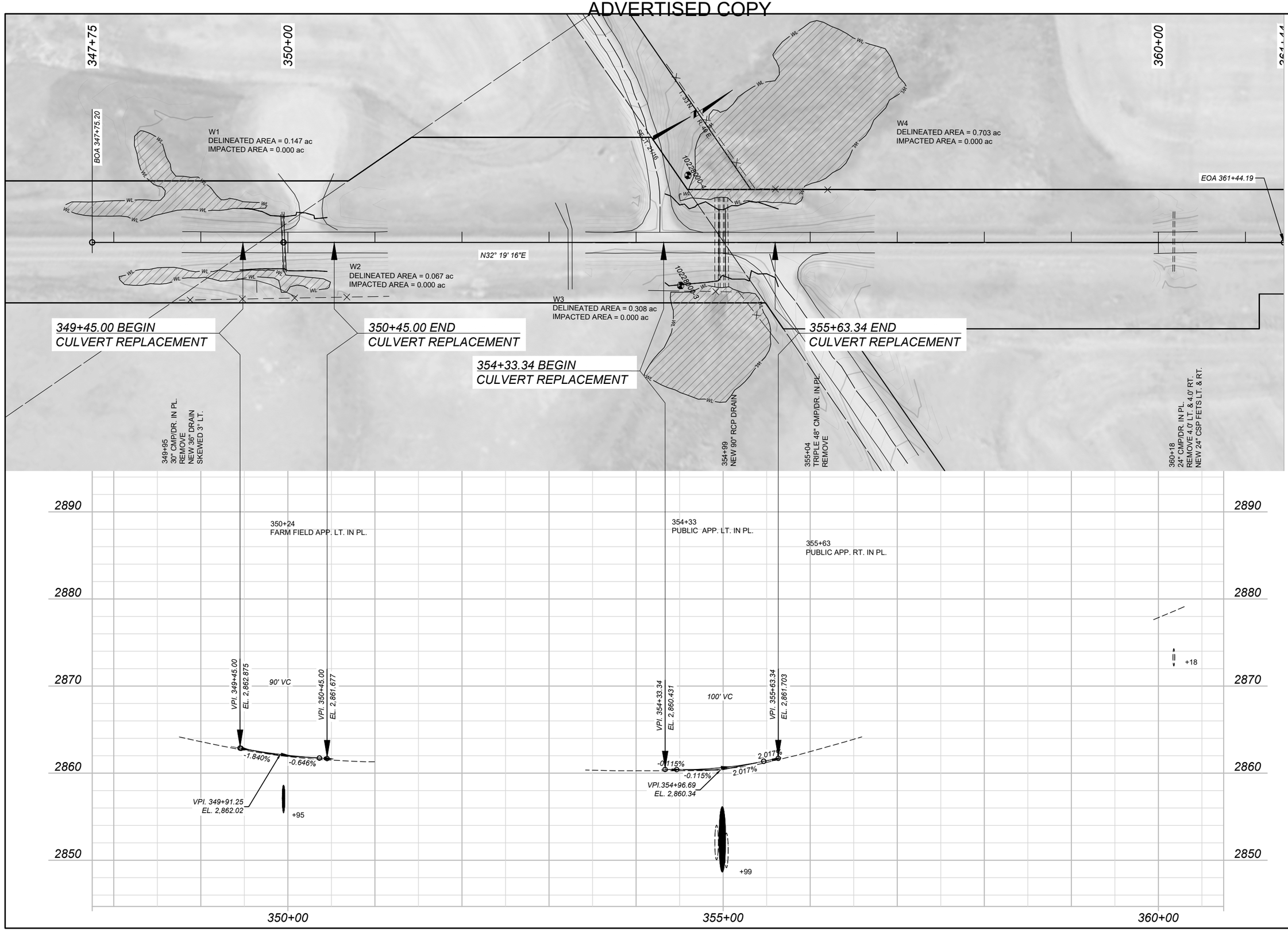
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SHEET NO.
19

PLAN & PROFILE

PROJECT NAME
SOUTH OF OPHEIM-SOUTH

COUNTY
VALLEY

PROJECT ID
STPP 31-1(30)26

UPN
10228000

DESIGNED BY	L. ZEIGLER	11/2025
REVIEWED BY		
CHECKED BY	J. CERECK	06/2026

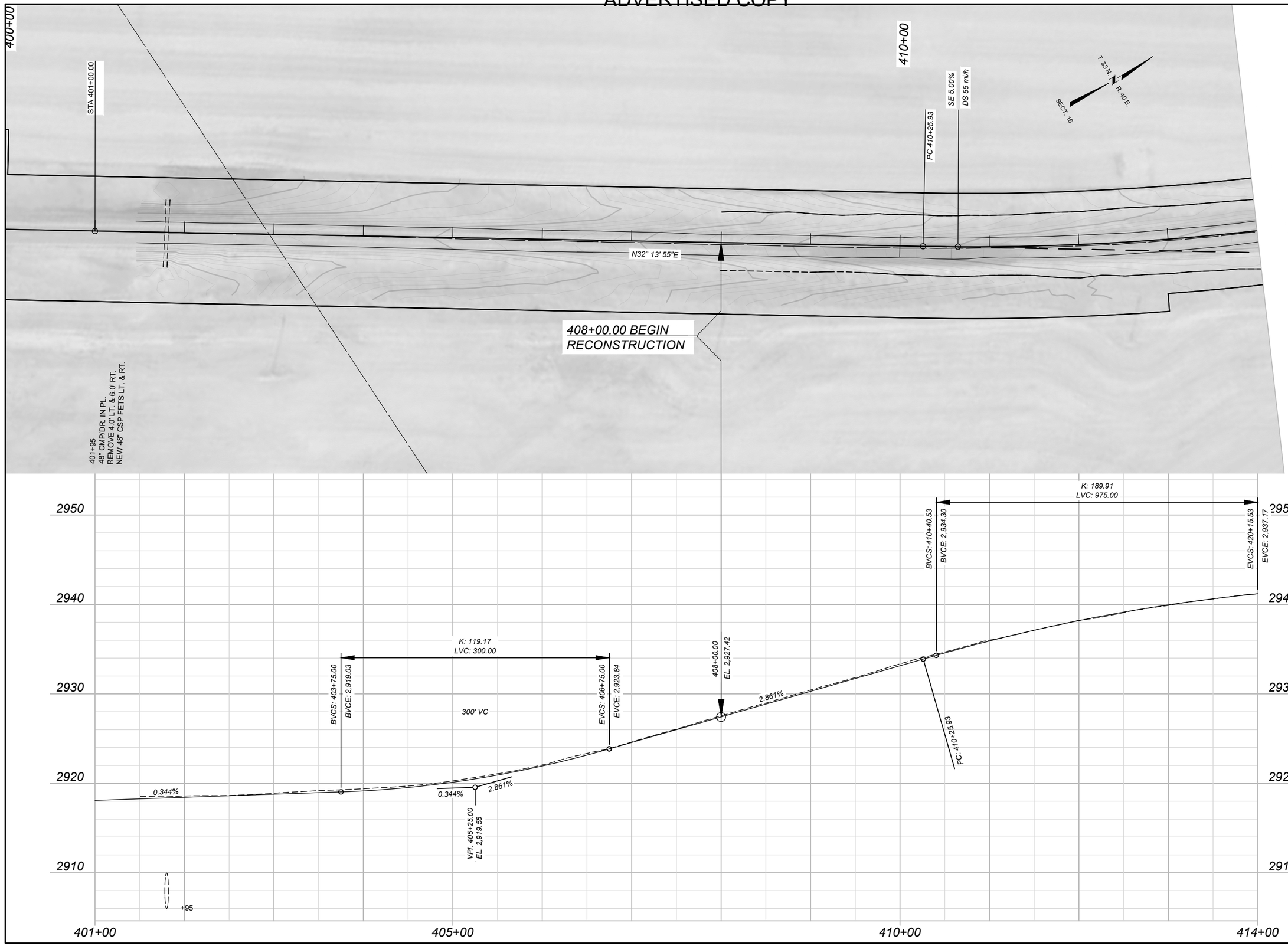
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SHEET NO. 20

PLAN & PROFILE

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY	L. ZEIGLER	11/2025
REVIEWED BY		
CHECKED BY	J. CERECK	06/2026

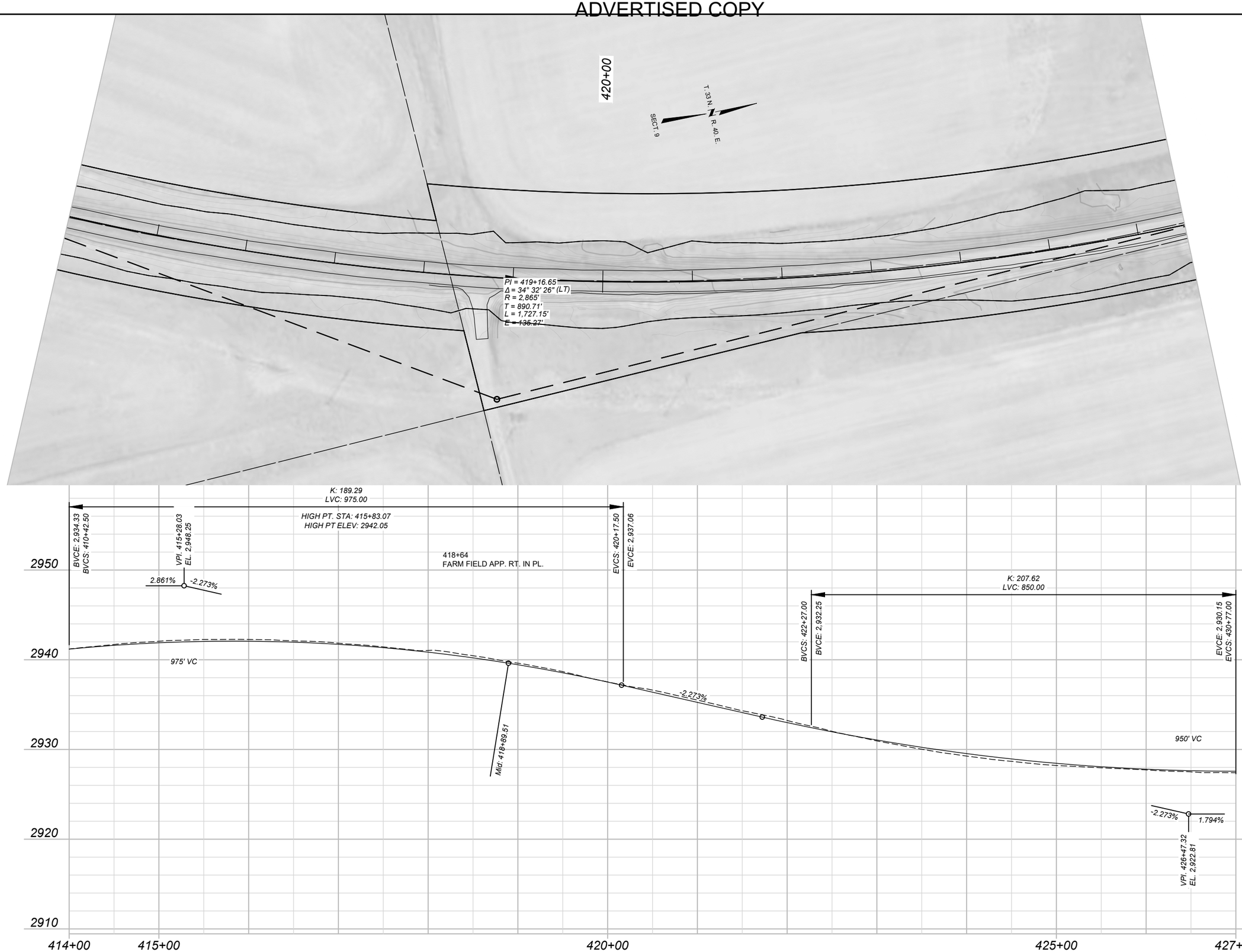
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SHEET NO.
21

PLAN & PROFILE

PROJECT NAME SOUTH OF OPHEIM-SOUTH
COUNTY VALLEY
PROJECT ID STPP 31-1(30)26
UPN 10228000

DESIGNED BY	L. ZEIGLER	11/2025
REVIEWED BY		
CHECKED BY	J. CERECK	06/2026

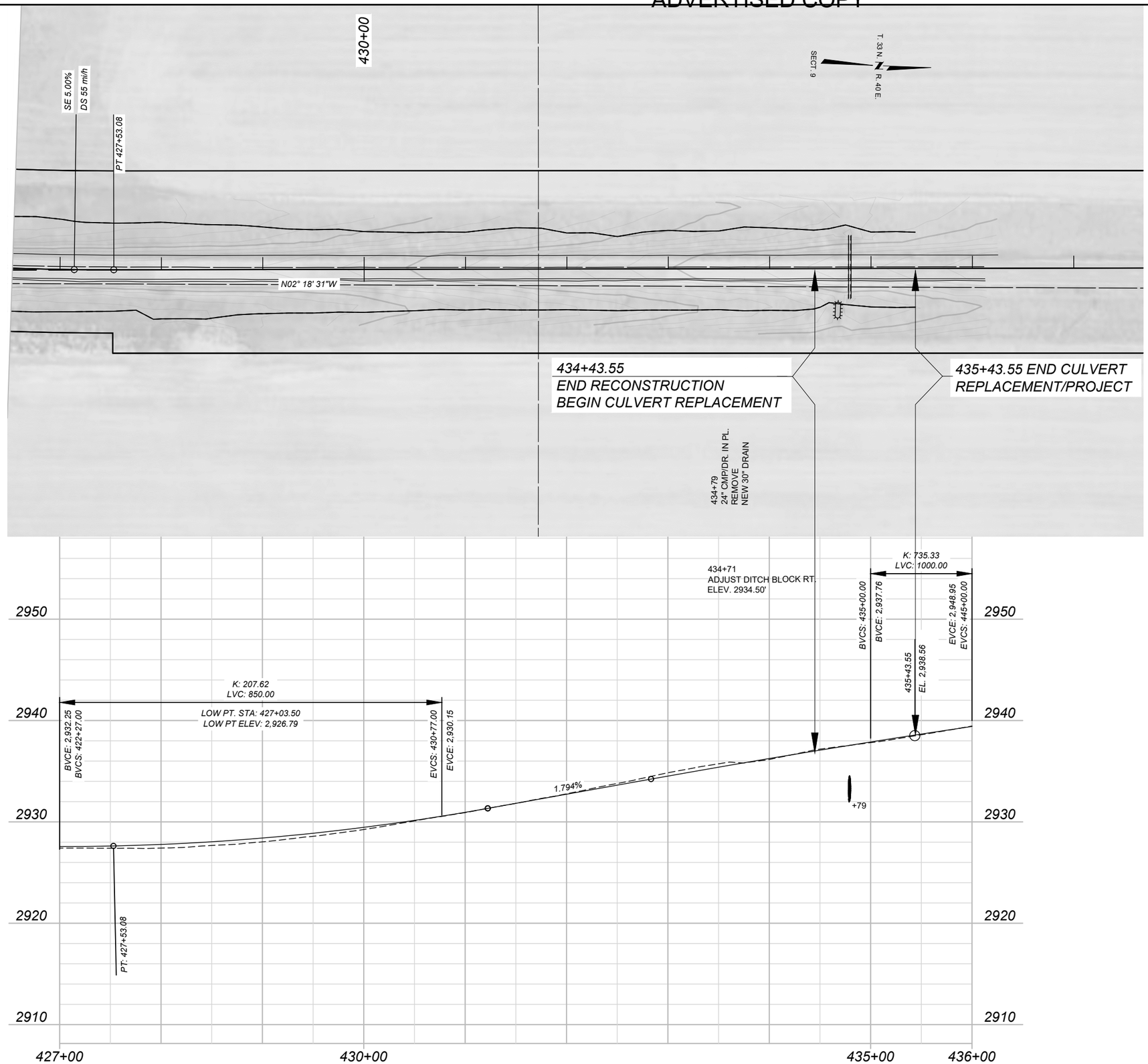
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SHEET NO. 22

PLAN & PROFILE

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY	L. ZEIGLER	11/2025	
REVIEWED BY			
CHECKED BY	J. CERECK	06/2026	

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MONTANA
Department of Transportation

ROAD PLANS

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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

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 AND PAVEMENT MARKING LOCATIONS ARE APPROXIMATE. 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, PROJECT MANAGER WILL CONTACT TRAFFIC & SAFETY BUREAU SIGNING SECTION WITH THE CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

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

RSFO = REPLACE SIGN FACE ONLY

FY = FLUORESCENT YELLOW SHEETING REQUIRED

FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED

1 AIR = 1 OR 2 ANGLE IRONS REQUIRED
2 AIR = 2 1/2" x 2 1/2" x 3/8" x 6'-4" (37 lbs.EACH) IF Y POST DOES NOT REACH TOP 6" OF PANEL, 2 ANGLE IRONS REQUIRED.

MBB = MOUNT BACK TO BACK

CAM = CHEVRON ANGLE MOUNT (SEE DET. DWG 619-24)

CBR = CONCRETE BARRIER RAIL

✕ = 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.

BGR = BEHIND GUARDRAIL

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET XI	**191.2**	SQFT
REMOVE SIGN	**17**	EACH
POSTS-STEEL U SIGN	**168**	LB
POLES-TREATED WOOD 4 IN	**19**	EACH
POLES-TREATED WOOD 5 IN	**2**	EACH
DELINEATOR TYPE 1	**224**	EACH

DELINEATION SPECIFICATIONS

SYMBOL	DESIGN	TOTAL
⊣	A	216
⊣⊢	D	8

HORIZONTAL ALIGNMENT: THE ALIGNMENT AND STATIONING SHOWN IN THE SIGNING PLANS IS NOT A RE-CREATION OF THE EXISTING AND DOES NOT SUPERSEDE THE EXISTING. THE INTENT OF THE SHOWN ALIGNMENT IS TO ASSIST IN LAYING OUT SIGNING ELEMENTS ONLY.

SHEET NO.
S1

SIGNING NOTES AND SUMMARY FRAMES

PROJECT NAME SOUTH OF OPHEIM-SOUTH
COUNTY VALLEY
PROJECT ID STPP 31-1(30)26
UPN 10228000

DESIGNED BY S. WATSON 05/2026
REVIEWED BY
CHECKED BY N. STYREN 06/2026

MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS													SIGN ASSEMBLY QUANTITIES											ADDITIONAL INFORMATION	
								FEET				FEET									PANEL (SQ. FT.)		WOOD POLE (EACH)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	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	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
10+01.00	L	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1						1					
29+67.00	R	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1						1					
32+10.00	R	REPLACE	D10-2 (2x)	10 X 27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.4						3.8						21		1					
73+48.00	L	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1						1					
84+43.00	R	REPLACE	D10-2 (2x)	10 X 27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.4						3.8						21		1					
91+16.00	R	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1						1					
135+15.00	R	REPLACE	D10-2 (2x)	10 X 27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.4						3.8						21		1					
181+11.00	L	REMOVE SIGN	OM1-3																								1					
182+43.00	L	REMOVE SIGN	W8-1																								1					
186+80.00	L	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
190+56.00	R	REPLACE	D10-2 (2x)	10 X 27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.4						3.8						21		1					
215+74.00	L	REPLACE	D3-1 (2x)	48 X 12			MBB	6.0	4" Treated Wood Pole		5.0	3.0	13.4						8.0		1						1					
			R1-1	30 X 30															5.2													
221+17.00	R	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
238+61.00	L	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
242+75.00	R	REPLACE	D10-2 (2x)	10 X 27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.4						3.8						21		1					

SHEET NO.
S2

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: S. WATSON 05/2026
REVIEWED BY:
CHECKED BY: N. STYREN 06/2026

MONTANA Department of Transportation

SIGNING PLANS

8/28/2026 9:54 AM

10228000SISUM001.DWG

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET		FEET								PANEL (SQ. FT.)		WOOD POLE (EACH)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	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	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
242+79.00	R	REPLACE	N7-1 MT	36 X 48				20.0	5" Treated Wood Pole		5.1	3.5	16.2				X		12.0			1					1					
			N7-1P MT	36 X 12															3.0													
256+66.00	R	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
264+55.00	L	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
269+22.00	L	REPLACE	D3-1 (2x)	48 X 12			MBB	6.0	4" Treated Wood Pole		5.0	3.0	11.0						8.0		1						1					
270+24.00	R	REPLACE	D3-1 (2x)	42 X 12			MBB	6.0	4" Treated Wood Pole		5.0	3.0	13.4						7.0		1						1					
			R1-1	30 X 30															5.2													
274+92.00	R	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
291+15.00	L	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
295+53.00	R	REPLACE	D10-2 (2x)	10 X 27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.4						3.8						21		1					
332+42.00	L	REPLACE	D3-1 (2x)	24 X 12			MBB	6.0	4" Treated Wood Pole		5.0	3.0	13.4						4.0		1						1					
			R1-1	30 X 30															5.2													
334+36.00	R	REPLACE	D3-1 (2x)	36 X 12			MBB	6.0	4" Treated Wood Pole		5.0	3.0	13.4						6.0		1						1					
			R1-1	30 X 30															5.2													

SHEET NO.
S3

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: S. WATSON 05/2026
REVIEWED BY:
CHECKED BY: N. STYREN 06/2026

MONTANA Department of Transportation

SIGNING PLANS

8/28/2026 9:54 AM

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET		FEET								PANEL (SQ. FT.)		WOOD POLE (EACH)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	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	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
347+78.00	R	REPLACE	D10-2 (2x)	10 X 27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.4						3.8						21		1					
347+82.00	L	REPLACE	N7-1 MT	36 X 48				20.0	5" Treated Wood Pole		5.1	3.5	16.2				X		12.0			1					1					
			N7-1P MT	36 X 12															3.0												FUHRMAN RANCH	
354+78.00	R	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
383+38.00	L	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
401+00.00	R	REPLACE	D10-2 (2x)	10 X 27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.4						3.8						21		1					
402+57.00	R	NEW	W14-3	48 X 36	FY	BBR		10.0	4" Treated Wood Pole		5.0	3.0	13.2						5.5		1											
																	PROJECT TOTALS		191.2		19	2				168		17					

SHEET NO.
S4

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY: S. WATSON 05/2026
REVIEWED BY:
CHECKED BY: N. STYREN 06/2026

MONTANA Department of Transportation

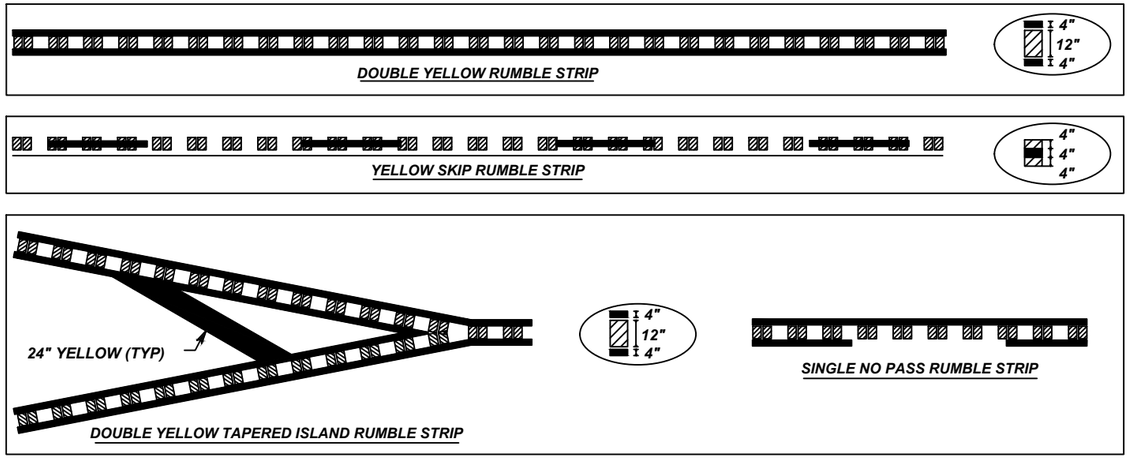
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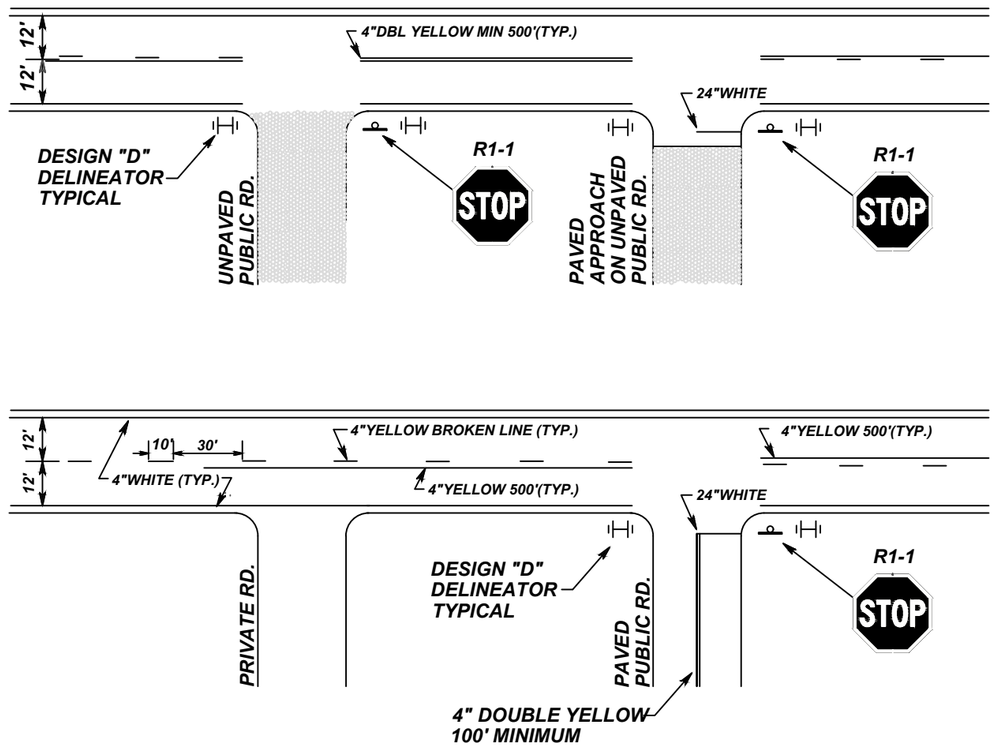
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TYPICAL RURAL CENTERLINE PAVEMENT MARKINGS AND RUMBLE STRIPS. SEE ROAD DESIGN PLANS FOR RUMBLE STRIP QUANTITY (IF USED)



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. S5

DETAIL

PROJECT NAME: SOUTH OF OPHEIM-SOUTH
COUNTY: VALLEY
PROJECT ID: STPP 31-1(30)26
UPN: 10228000

DESIGNED BY	S. WATSON	05/2026
REVIEWED BY		
CHECKED BY	N. STYREN	06/2026

10228000SIDET001.DWG

MONTANA Department of Transportation

SIGNING PLANS

9/28/2026 12:59 PM

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10+00

20+00

30+00

40+00

50+00

60+00

NO PASSING ZONE

Ref Stationing:10+01.00
Assembly Status:Proposed
Sign Name:W14-3

BOA 10+00.00

4" WHITE SHOULDER

4" YELLOW CENTERLINES
WITH 12" SPACE

MT HWY 24

PC 33+69.97

Ref Stationing:29+67.00
Assembly Status:Proposed
Sign Name:W14-3

NO PASSING ZONE

Sign Name:D10-2 (26)

Ref Stationing:32+10.00
Assembly Status:Replace

PT 50+75.09

R = 2865'
225', 400' DELINEATOR SPACING

NOTE: HORIZONTAL ALIGNMENT AND STATIONING SHOWN IS FOR SIGNING PLANS ONLY

SHEET NO.
S6

PLAN SHEET

PROJECT NAME **SOUTH OF OPHEIM-SOUTH**
COUNTY **VALLEY**
PROJECT ID **STPP 31-1(30)26**
UPN **10228000**

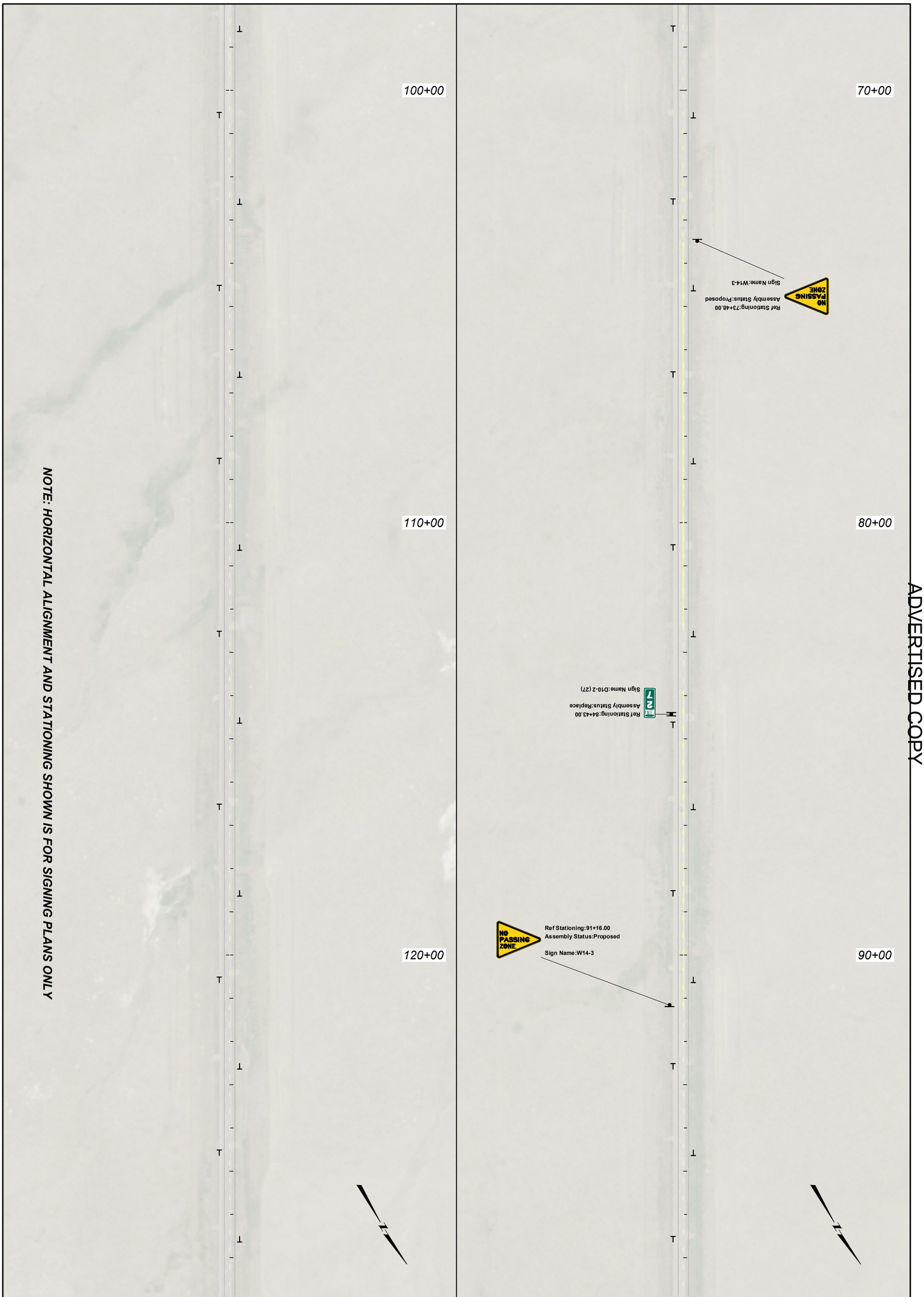
DESIGNED BY	05/2026
S. WATSON	
REVIEWED BY	
CHECKED BY	06/2026
N. STYREN	

10228000SIPLN001.DWG

MONTANA
Department of Transportation

SIGNING PLANS

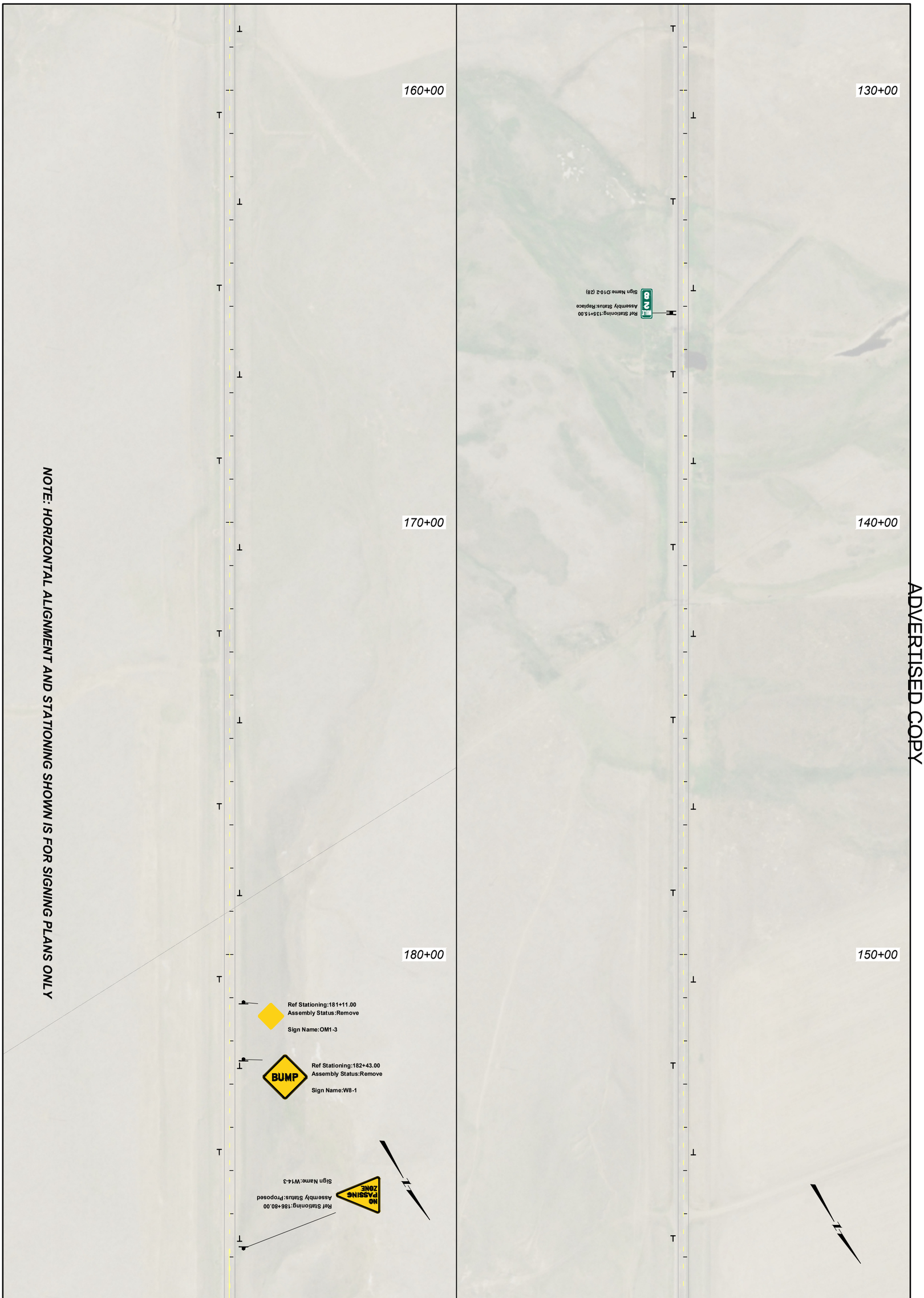
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NOTE: HORIZONTAL ALIGNMENT AND STATIONING SHOWN IS FOR SIGNING PLANS ONLY

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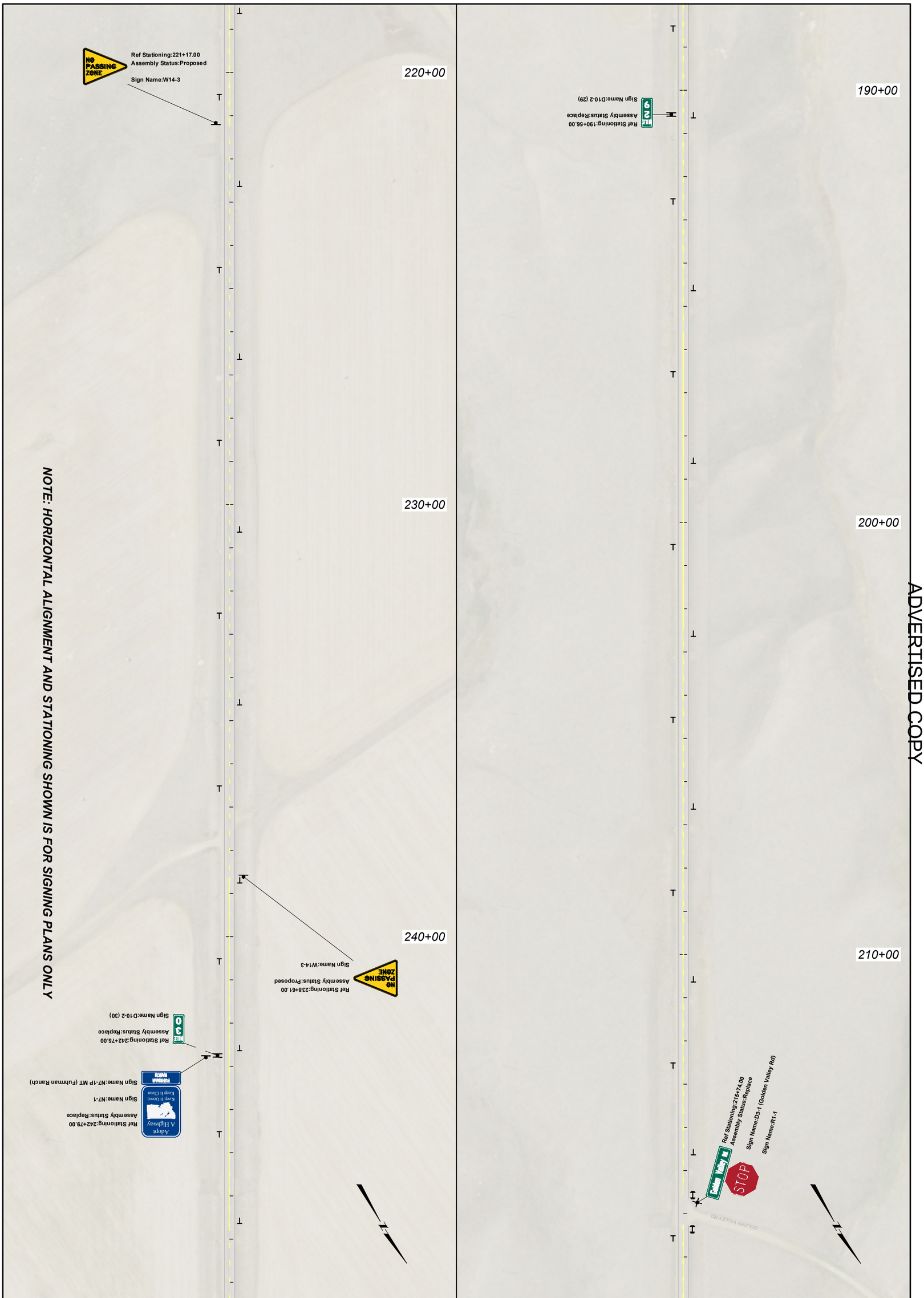
MONTANA Department of Transportation	DESIGNED BY: S. WATSON 05/2026	PROJECT NAME: SOUTH OF OPHEIM-SOUTH	PLAN SHEET	SHEET NO. S7
SIGNING PLANS	REVIEWED BY:	COUNTY: VALLEY		
	CHECKED BY: N. STYREN 06/2026	PROJECT ID: STPP 31-1(30)26		
9/28/2026 12:59 PM	10228000SIPLN001.DWG	UPN: 10228000		



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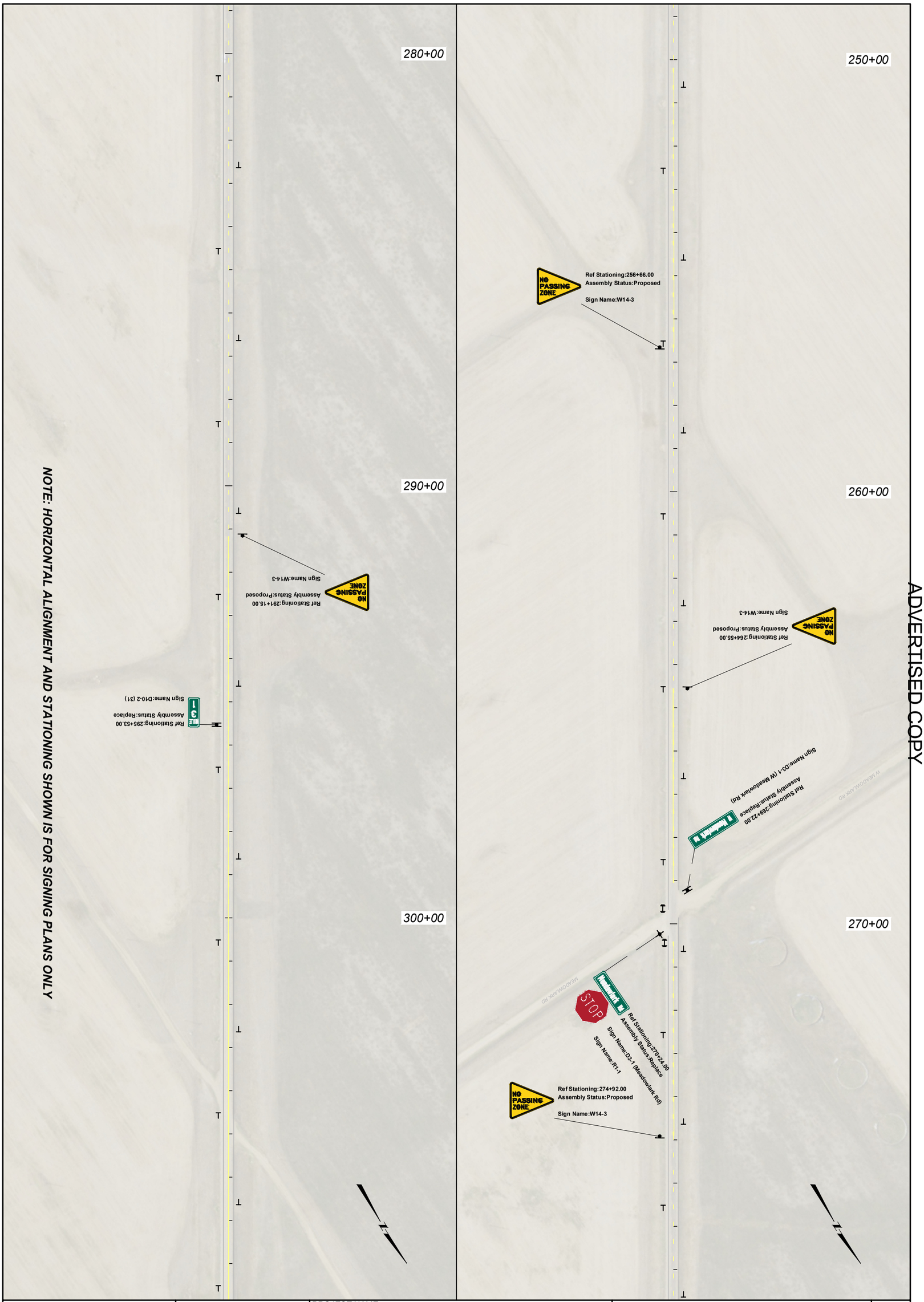
MONTANA Department of Transportation	DESIGNED BY: S. WATSON 05/2026	PROJECT NAME: SOUTH OF OPHEIM-SOUTH	PLAN SHEET
SIGNING PLANS	REVIEWED BY:	COUNTY: VALLEY	SHEET NO. S8
	CHECKED BY: N. STYREN 06/2026	PROJECT ID: STPP 31-1(30)26	
9/28/2026 12:59 PM	10228000SIPLN001.DWG	UPN: 10228000	



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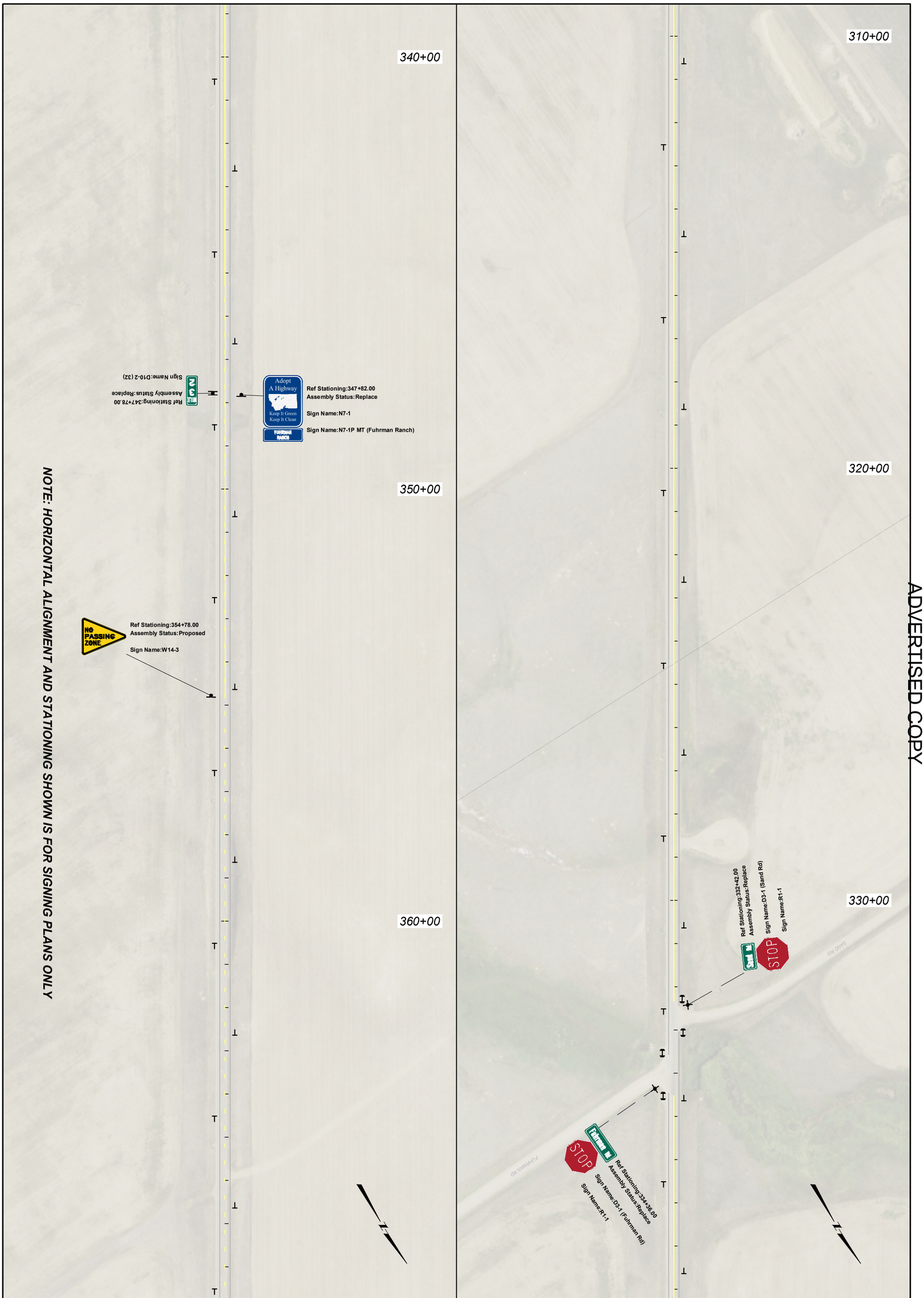
MONTANA Department of Transportation	DESIGNED BY: S. WATSON 05/2026	PROJECT NAME: SOUTH OF OPHEIM-SOUTH	PLAN SHEET
SIGNING PLANS	REVIEWED BY:	COUNTY: VALLEY	SHEET NO. S9
	CHECKED BY: N. STYREN 06/2026	PROJECT ID: STPP 31-1(30)26	
9/28/2026 12:59 PM	10228000SIPLN001.DWG	UPN: 10228000	



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MONTANA Department of Transportation	DESIGNED BY: S. WATSON 05/2026	PROJECT NAME: SOUTH OF OPHEIM-SOUTH	PLAN SHEET
SIGNING PLANS	REVIEWED BY:	COUNTY: VALLEY	SHEET NO. S10
	CHECKED BY: N. STYREN 06/2026	PROJECT ID: STPP 31-1(30)26	
9/28/2026 12:59 PM	10228000SIPLN001.DWG	UPN: 10228000	



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MONTANA Department of Transportation	DESIGNED BY: S. WATSON 05/2026	PROJECT NAME: SOUTH OF OPHEIM-SOUTH	PLAN SHEET
SIGNING PLANS	REVIEWED BY:	COUNTY: VALLEY	SHEET NO. S11
9/28/2026 1:00 PM 10228000SIPLN001.DWG	CHECKED BY: N. STYREN 06/2026	PROJECT ID: STPP 31-1(30)26	
		UPN: 10228000	

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370+00

380+00

390+00

N

NO PASSING ZONE

Ref Stationing:383+38.00
Assembly Status:Proposed
Sign Name:W14-3

PC 386+64.27

R = 2865'
225', 400' DELINEATOR SPACING

400+00

410+00

415+58

N

R = 2865'
225', 400' DELINEATOR SPACING

PT 405+17.99

EOA 415+57.70

Ref Stationing:401+00.00
Assembly Status:Replace
Sign Name:D10-2 (33)

Ref Stationing:402+57.00
Assembly Status:Proposed
Sign Name:W14-3

NO PASSING ZONE

NOTE: HORIZONTAL ALIGNMENT AND STATIONING SHOWN IS FOR SIGNING PLANS ONLY

SHEET NO.
S12

PLAN SHEET

PROJECT NAME **SOUTH OF OPHEIM-SOUTH**
COUNTY **VALLEY**
PROJECT ID **STPP 31-1(30)26**
UPN **10228000**

DESIGNED BY	05/2026
S. WATSON	
REVIEWED BY	
CHECKED BY	06/2026
N. STYREN	

10228000SIPLN001.DWG

MONTANA
Department of Transportation

SIGNING PLANS

9/28/2026 1:00 PM