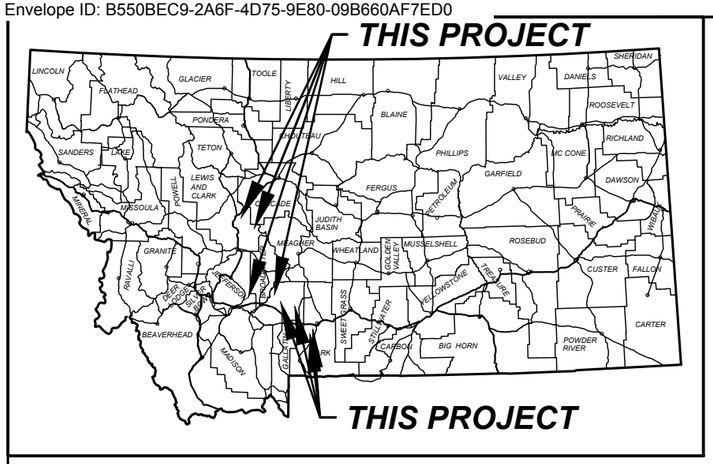
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT HSIP STWD(969)

ROADWAY & ROADSIDE SAFETY IMPROVEMENTS

SF229 GUARDRAIL DIST 2 & 3

GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK

LENGTH N/A MILES

SITE 6 GATES OF THE MOUNTAINS RD.

SITE 7 JIMTOWN RD.

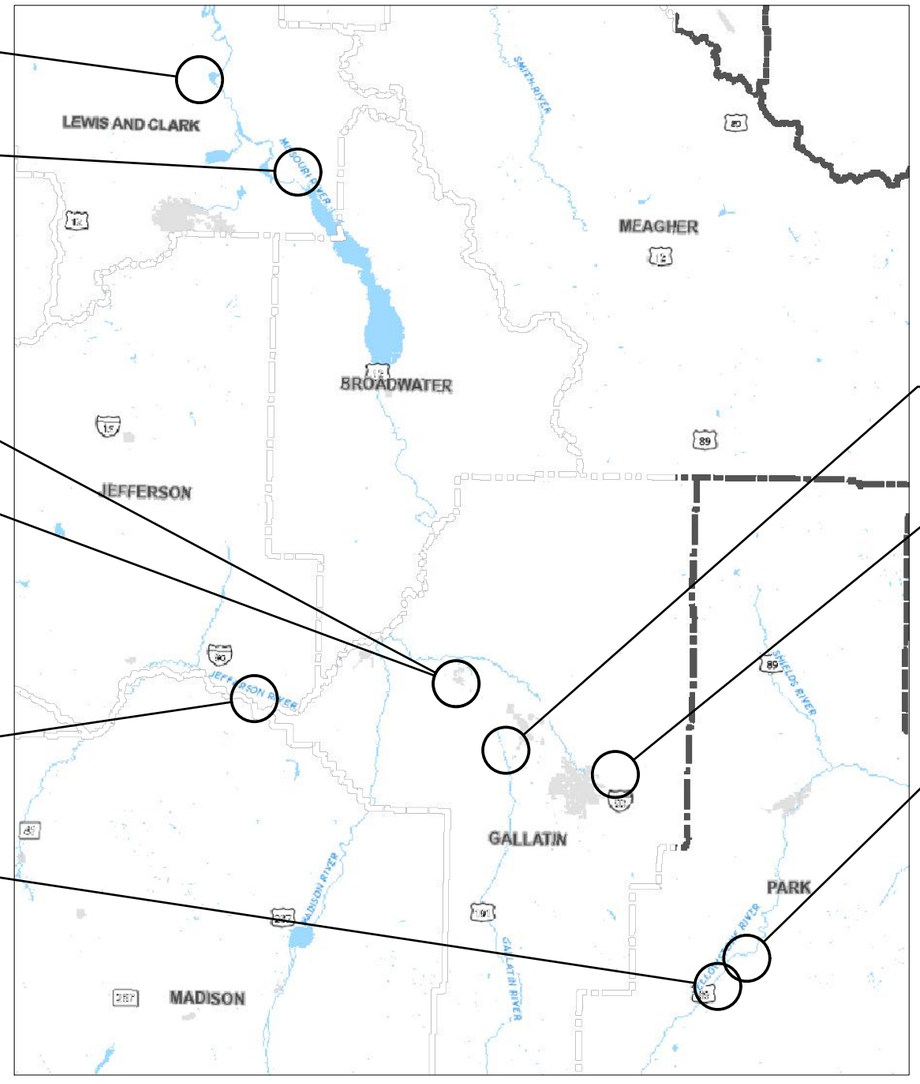
SITE 3 MANHATTAN INTERCHANGE

RP 0.00 ON S-288
66.5' X 236.9' BRIDGE IN PL.
DO NOT DISTURB
MDT STRUCTURE ID # 06586
NBI # S00288000+09091
NOT THIS CONTRACT

SURFACING SOURCES - CONTRACTOR FURNISHED

SITE 4 MT HWY 2

SITE 5 MURPHY LN.



SITE 2 WEST CAMERON BRIDGE RD.

SITE 8 BRIDGER CANYON RD.

SITE 1 EAST RIVER RD.

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	HSIP STWD(968)

MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:
TRAFFIC AND SAFETY ENGINEER

GABE B. PRIEBE
13957PE
LICENSED PROFESSIONAL ENGINEER
MONTANA

Signed by: Gabe B. Priebe
4895FFA73587466...
6/5/2025
DATE

SHEET NO. 1

TITLE

PROJECT NAME	SF229 GUARDRAIL DIST 2 & 3		
COUNTY	GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK		
PROJECT ID	HSIP STWD(969)		
UPN	10398000		
DESIGNED BY	T. PIERCE	1/14/2025	
REVIEWED BY	D. RELPH	1/27/2025	
CHECKED BY	T. JOHNSON	1/27/2025	

MONTANA Department of Transportation

10398000 PLAN SET

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SITE	CORRIDOR	ROUTE	MILEPOST	SHEET NO.	COUNTIES
SITE 1	C000540	EAST RIVER RD. (S-540)	16.37-16.58	9	PARK
SITE 2	C016403	WEST CAMERON BRIDGE RD. (L-16-403)	3.99-4.14	10	GALLATIN
SITE 3	C229020	MANHATTAN EB OFF-RAMP (R090E288OFAA)	0.00-0.20	11	GALLATIN
SITE 4	C022249	MT HWY 2 (X-22249)	9.42-9.77	12	JEFFERSON
SITE 5	C000571	MURPHY LN. (S-571)	0.79-0.96	13	PARK
SITE 6	C025428	GATES OF THE MOUNTAINS RD. (L-25-428)	1.12-1.30	14	LEWIS AND CLARK
SITE 7	C025002	JIMTOWN RD. (L-25-7)	3.70-3.92	15	LEWIS AND CLARK
SITE 8	C000086	BRIDGER CANYON RD. (P-86)	4.64-5.25	16-18	GALLATIN

SIGNING PLANS

SUMMARY	S1-S2
SPECIFICATIONS	S3-S4
DETAILS	S5
PLANS	S6-S12

NOTES

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.

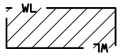
AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):

FAP 248-A (ORIGINAL CONST. - 1931)
I-IG-90-6(10)282 (ORIGINAL CONST. - 1964)
S-370(12) (ORIGINAL CONST. - 1963)
FAS-S-66(1) (BRIDGE & APPROACHES - 1950)
FAP 217-C (ORIGINAL CONST. - 1927)

WETLANDS

WETLANDS EXIST ADJACENT TO THE ROADWAY AND MAY EXIST BEYOND THE PROJECT LIMITS. WETLAND AREAS WITHIN THE PROJECT LIMITS AT SITE 2, SITE 7, AND SITE 8 HAVE BEEN DELINEATED AND ARE SHOWN ON THE PLANS. WETLANDS ARE LOCATED ADJACENT TO THE ROADWAY AT SITE 1 AND SITE 5. SEE THE PROTECTION OF AQUATIC RESOURCES SPECIAL PROVISION. ANY ACTION IMPACTING WETLAND AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR.



DELINEATED WETLAND AREAS

SITE 1 EAST RIVER RD. (S-540)

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
420+57.87	BOA	426,141.701	1,673,329.654	
423+08.70	PC	426,008.570	1,673,117.068	
430+62.30	PT	425,434.252	1,672,650.274	
433+78.90	PC	425,137.244	1,672,540.622	
445+64.71	PT	424,308.122	1,671,740.503	
447+06.35	PC	424,254.368	1,671,609.458	
458+86.92	PT	423,507.356	1,670,719.573	
468+86.89	EOA	422,661.928	1,670,185.533	

SITE 2 WEST CAMERON BRIDGE RD. (L-16-403)

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
210+00.00	BOA	549,317.004	1,529,102.921	
213+49.19	PC	549,309.048	1,529,452.025	
216+72.18	PT	549,356.194	1,529,769.977	
217+61.86	PC	549,384.166	1,529,855.186	
220+59.11	PT	549,428.987	1,530,147.672	
223+00.00	EOA	549,425.835	1,530,388.543	

SITE 3 CHURCHILL RD. (S-288)

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
34+32.76	BOA	586,562.269	1,502,684.692	
46+18.70	PC	586,952.921	1,501,564.939	
82+66.49	PT	589,949.447	1,500,702.603	
107+16.21	EOA	591,862.399	1,502,232.874	

SITE 3 MANHATTAN EB OFF-RAMP (R090E288OFAA)

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
656+73.78	BOA	589,310.204	1,499,257.371	
660+67.13	PC	589,065.708	1,499,565.510	
663+92.32	PT	588,846.222	1,499,805.078	
665+80.85	PC	588,709.333	1,499,934.711	
669+81.92	PT	588,489.721	1,500,266.186	
670+23.24	EOA	588,475.256	1,500,304.891	

SITE 4 MT HWY 2 (X-22249)

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
440+00.00	BOA	581,048.418	1,376,274.448	
477+36.10	PC	579,941.725	1,379,842.875	
482+63.90	PT	579,856.664	1,380,358.707	
500+00.00	EOA	579,811.305	1,382,094.214	

SITE 5 MURPHY LN. (S-571)

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
0+00.00	BOA	407,368.528	1,655,412.497	
8+89.00	PC	408,249.913	1,655,528.601	
37+86.99	PT	410,096.989	1,653,793.586	
49+52.99	PC	410,017.264	1,652,630.314	
59+05.77	PT	410,261.445	1,651,727.438	
61+79.70	EOA	410,415.365	1,651,500.846	

SITE 6 GATES OF THE MOUNTAINS RD. (L-25-428)

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
0+00.00	BOA	946,975.456	1,342,733.800	
2+88.50	PC	947,044.681	1,343,013.872	
6+63.55	PT	947,037.455	1,343,384.586	
9+05.35	PC	946,970.333	1,343,616.883	
12+62.80	PT	946,959.094	1,343,970.454	
47+76.14	PC	947,718.029	1,347,400.847	
49+97.47	PT	947,756.216	1,347,618.778	
54+25.95	PC	947,811.423	1,348,043.689	
59+32.79	PT	947,830.170	1,348,549.460	
59+90.82	PC	947,826.974	1,348,607.404	
63+38.00	PT	947,707.480	1,348,927.779	
66+40.99	PC	947,521.975	1,349,167.342	
68+11.67	PT	947,411.848	1,349,297.674	
69+41.02	EOA	947,324.224	1,349,392.825	

SITE 7 JIMTOWN RD. (L-25-7)

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
184+85.97	BOA	894,275.645	1,406,401.949	
186+36.60	PC	894,144.103	1,406,328.561	
188+94.06	PT	893,899.598	1,406,254.441	
192+04.60	PC	893,590.045	1,406,229.690	
194+92.08	PT	893,310.687	1,406,166.186	
197+61.10	PC	893,059.608	1,406,069.592	
201+28.95	PT	892,702.220	1,406,084.419	
205+09.98	PC	892,359.154	1,406,250.218	
207+43.07	EOA	892,155.533	1,406,363.395	

SITE 8 BRIDGER CANYON RD. (P-86)

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
194+13.90	BOA	535,376.839	1,593,120.732	
196+41.70	PT	535,335.589	1,593,344.573	
199+01.76	PC	535,306.769	1,593,603.030	
202+37.71	PT	535,153.955	1,593,893.484	
203+43.30	PC	535,074.097	1,593,962.569	
207+35.39	PT	534,909.321	1,594,306.283	
209+83.40	PC	534,900.280	1,594,554.121	
215+27.74	PT	534,707.567	1,595,052.533	
220+29.04	PC	534,384.071	1,595,435.485	
224+03.24	PT	534,249.467	1,595,777.533	
230+00.00	EOA	534,220.600	1,596,373.597	

SHEET NO.
2

TABLE OF CONTENTS & NOTES

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
T. PIERCE	1/14/2025	D. RELPH	1/27/2025	T. JOHNSON	1/27/2025

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MONTANA
Department of Transportation

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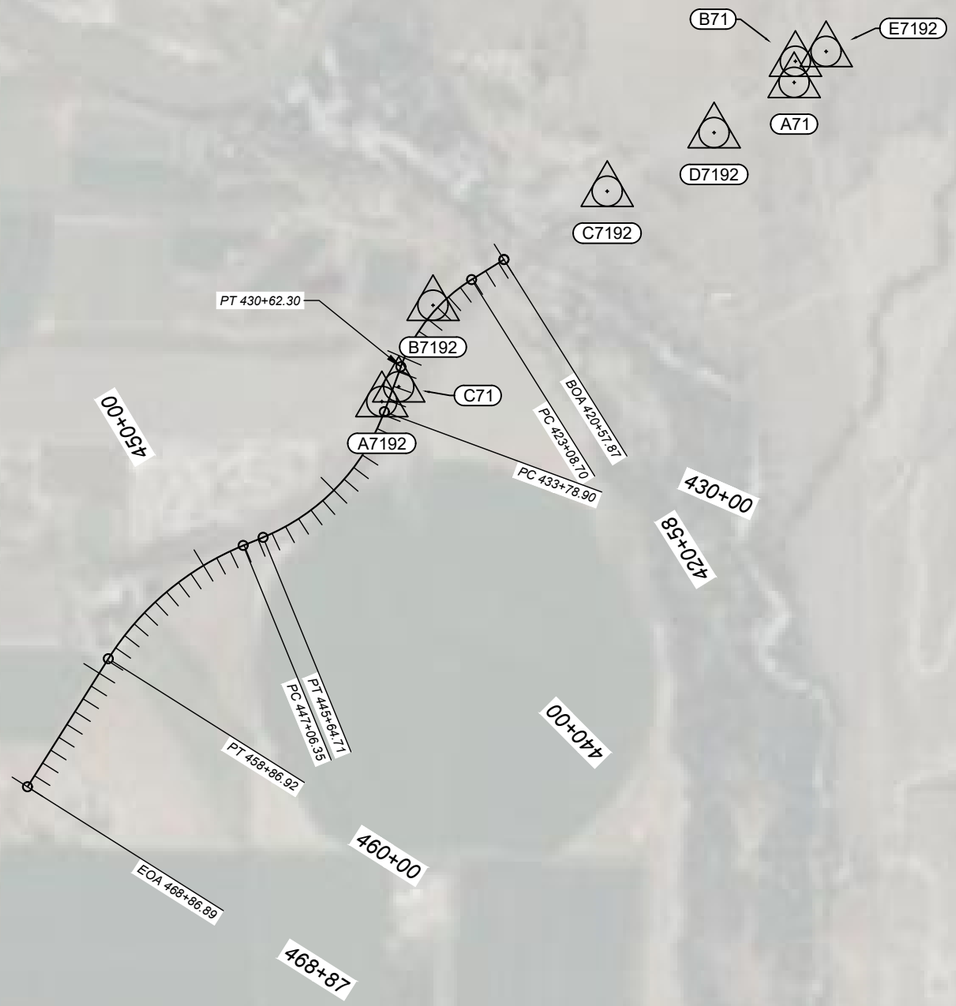
CONTROL DIAGRAM

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 0.999547

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

LEVEL DATUM SOURCE
NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID 12A AND HOLDING BMS L566)



CONTROL ABSTRACT

POINT NAME\NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
A71	427,310.138	1,675,245.007	4,835.54
A7192	425,204.675	1,672,523.802	4,873.98
B71	427,449.948	1,675,253.369	4,833.34
B7192	425,839.639	1,672,861.936	4,844.78
C71	425,302.024	1,672,635.509	4,872.39
C7192	426,591.988	1,674,011.371	4,843.09
D7192	426,978.816	1,674,716.611	4,839.88
E7192	427,514.442	1,675,456.148	4,833.08

SHEET NO. 3

CONTROL DIAGRAM
SITE 1 EAST RIVER RD.

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. PIERCE 1/14/2025	D. RELPH 1/27/2025	T. JOHNSON 1/27/2025

MONTANA
Department of Transportation

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CONTROL ABSTRACT

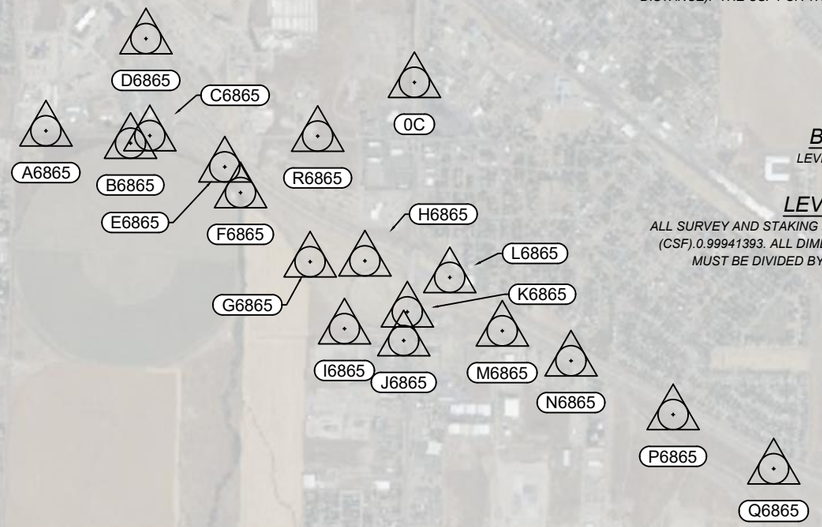
POINT NAME\NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
0C	560,675.554*	1,538,669.193*	4,457.22*
A6865	560,036.562	1,533,805.517	4,457.53
B6865	559,873.297	1,534,921.699	4,458.95
C6865	559,972.261	1,535,176.803	4,463.75
D6865	561,252.599	1,535,125.525	4,451.19
E6865	559,560.393	1,536,166.423	4,468.71
F6865	559,220.906	1,536,373.860	4,467.65
G6865	558,308.288	1,537,292.747	4,473.84
H6865	558,320.252	1,538,015.814	4,474.64
I6865	557,424.848	1,537,746.400	4,485.77
J6865	557,268.425	1,538,528.121	4,485.78
K6865	557,646.780	1,538,575.380	4,498.23
L6865	558,101.670	1,539,135.666	4,485.30
M6865	557,396.528	1,539,829.146	4,482.66
N6865	557,001.573	1,540,736.236	4,486.60
P6865	556,291.988	1,542,083.335	4,490.74
Q6865	555,576.726	1,543,411.273	4,495.13
R6865	559,966.604	1,537,392.658	4,462.35

*PER CN#4471

CONTROL DIAGRAM

SCALE: N/A

NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-1992 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 0.99941393



BEARING SOURCE
LEVEL DATUM SOURCE IS NAVD 88

LEVEL DATUM SOURCE
ALL SURVEY AND STAKING REQUIRES THE USE OF COMBINATION SCALE FACTOR (CSF).0.99941393. ALL DIMENSIONS ON THE PLANS ARE GRID DIMENSIONS AND MUST BE DIVIDED BY THE CSF TO ARRIVE AT GROUND DIMENSIONS.





SHEET NO. 4

CONTROL DIAGRAM
SITE 2 WEST CAMERON BRIDGE RD.

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY		DATE
T. PIERCE		1/14/2025
REVIEWED BY		1/27/2025
D. RELPH		
CHECKED BY		1/27/2025
T. JOHNSON		

MONTANA
Department of Transportation

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CONTROL ABSTRACT			
POINT NAME\NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
A8085	946,532.424	1,342,894.251	4,002.28
B8085	947,493.343	1,342,545.244	4,003.28

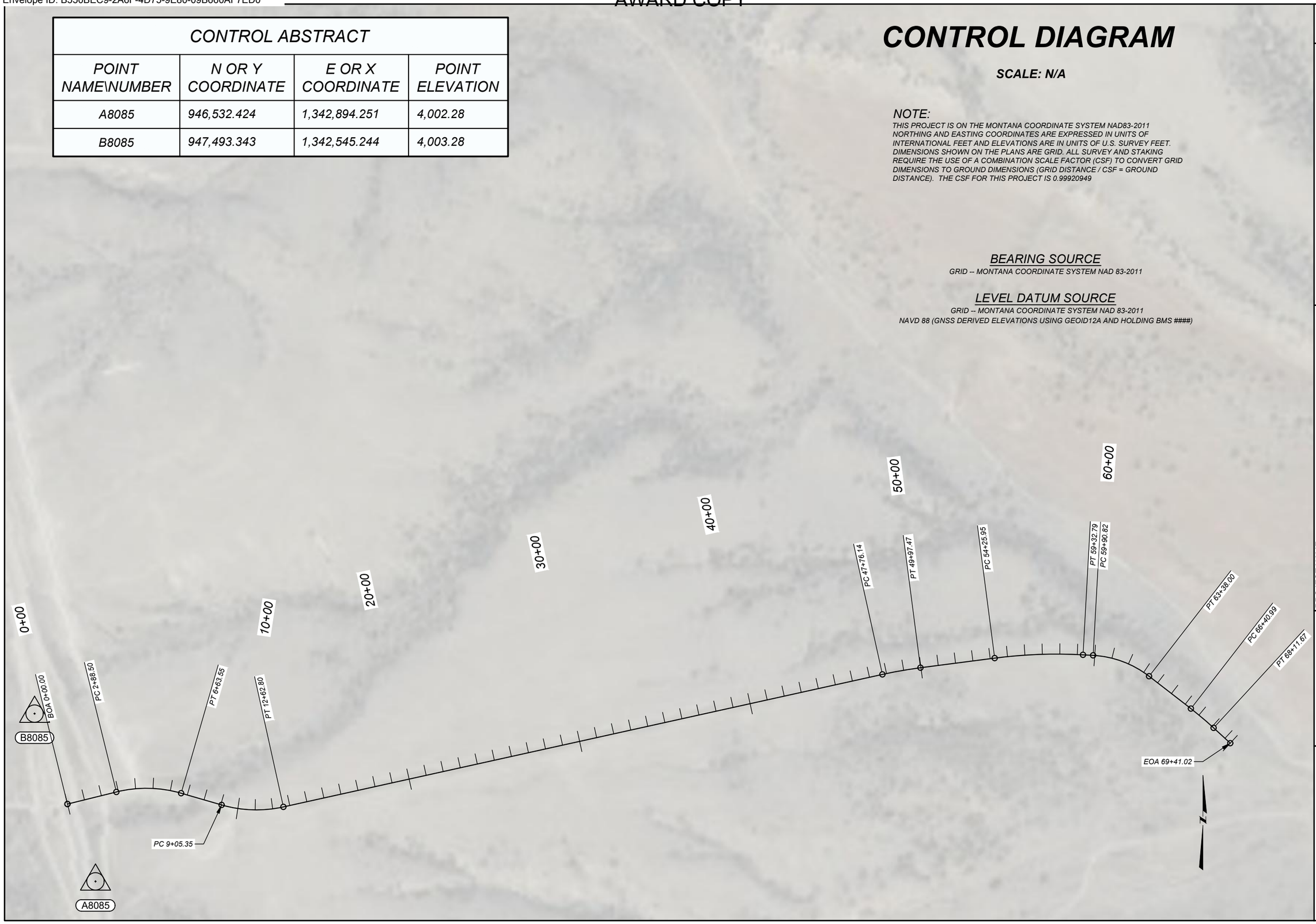
CONTROL DIAGRAM

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 0.99920949

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

LEVEL DATUM SOURCE
GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011
NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID12A AND HOLDING BMS ####)



SHEET NO. 5

CONTROL DIAGRAM
SITE 6 GATES OF THE MOUNTAINS RD.

PROJECT NAME	SF229 GUARDRAIL DIST 2 & 3		
COUNTY	GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK		
PROJECT ID	HSIP STWD(969)		
UPN	10398000		
DESIGNED BY	T. PIERCE	1/14/2025	
REVIEWED BY	D. RELPH	1/27/2025	
CHECKED BY	T. JOHNSON	1/27/2025	

MONTANA
Department of Transportation

10398000 PLAN SET

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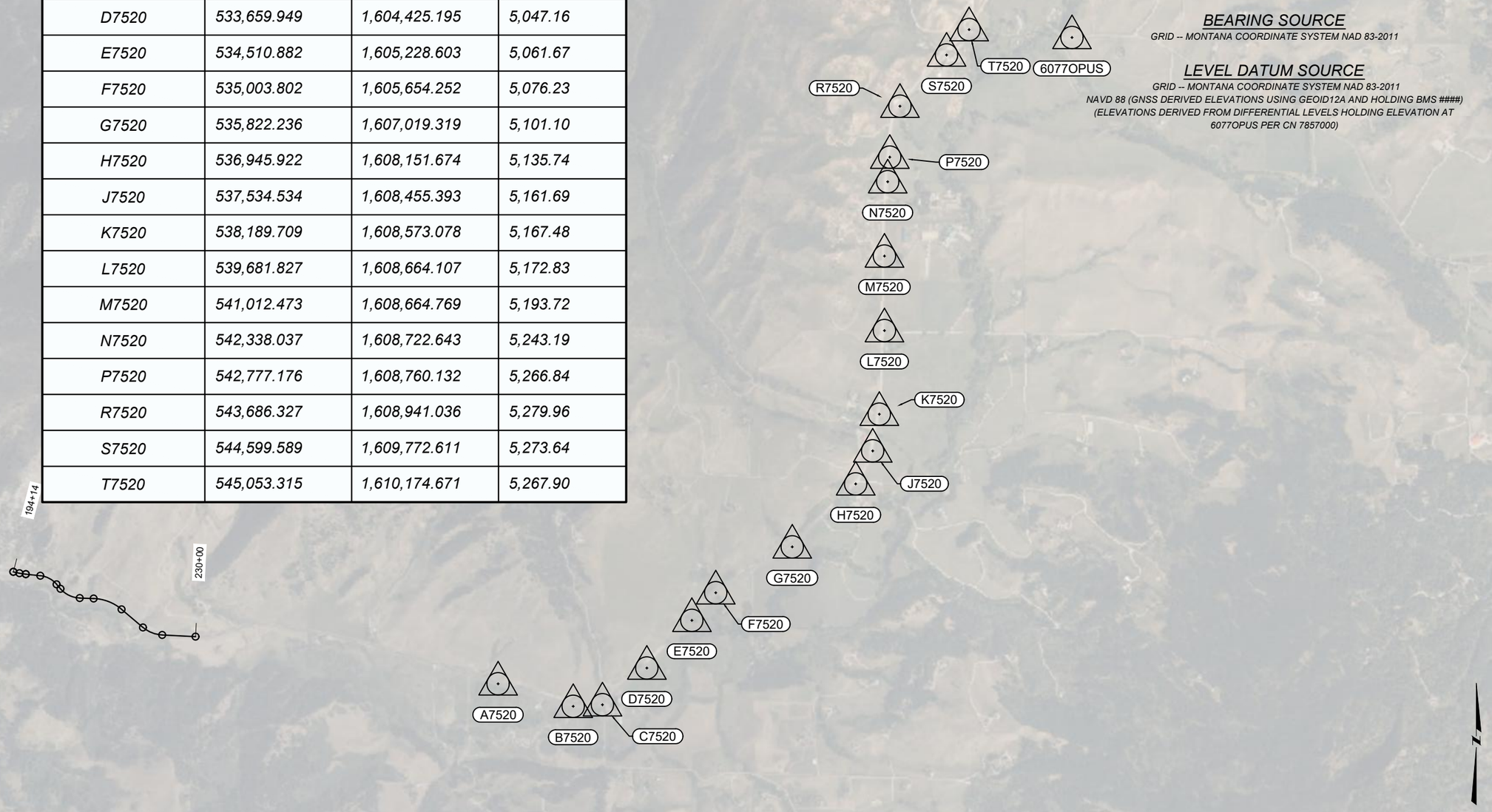
CONTROL DIAGRAM

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 0.99940070

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

LEVEL DATUM SOURCE
GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011
NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID12A AND HOLDING BMS ####)
(ELEVATIONS DERIVED FROM DIFFERENTIAL LEVELS HOLDING ELEVATION AT 6077OPUS PER CN 7857000)



CONTROL ABSTRACT

POINT NAME\NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
6077OPUS	544,912.668	1,612,010.925	5,282.92
A7520	533,378.542	1,601,771.073	5,017.69
B7520	532,976.590	1,603,110.768	5,035.25
C7520	533,004.430	1,603,632.433	5,045.42
D7520	533,659.949	1,604,425.195	5,047.16
E7520	534,510.882	1,605,228.603	5,061.67
F7520	535,003.802	1,605,654.252	5,076.23
G7520	535,822.236	1,607,019.319	5,101.10
H7520	536,945.922	1,608,151.674	5,135.74
J7520	537,534.534	1,608,455.393	5,161.69
K7520	538,189.709	1,608,573.078	5,167.48
L7520	539,681.827	1,608,664.107	5,172.83
M7520	541,012.473	1,608,664.769	5,193.72
N7520	542,338.037	1,608,722.643	5,243.19
P7520	542,777.176	1,608,760.132	5,266.84
R7520	543,686.327	1,608,941.036	5,279.96
S7520	544,599.589	1,609,772.611	5,273.64
T7520	545,053.315	1,610,174.671	5,267.90

SHEET NO.
6

CONTROL DIAGRAM
SITE 8 BRIDGER CANYON RD.

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	T. PIERCE	1/14/2025
REVIEWED BY	D. RELPH	1/27/2025
CHECKED BY	T. JOHNSON	1/27/2025

MONTANA
Department of Transportation

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SUMMARY

GUARDRAIL

STATION		linear feet				each						REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL LONG POST		MASH W-BEAM TERMINAL SECTION		RESET BRIDGE APPROACH SECTION		GUARDRAIL END SECTION WIDENING		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
REMOVE RAIL												
SITE 3 (MANHATTAN EB OFF-RAMP)												
665+36.78	669+58.01	552.3										STA. 668+79.60 - 669+18.12 SHOP BENT RAIL = 175' RADIUS STA. 669+18.12 - 669+55.46 SHOP BENT RAIL = 45' RADIUS
SITE 8 (BRIDGER CANYON RD.)												
200+44.79	206+72.27		628.8									
215+11.70	220+48.12		536.4									
NEW RAIL												
SITE 1 (EAST RIVER RD.)												
422+61.87	432+22.71				900.0		2				1	
SITE 2 (WEST CAMERON BRIDGE RD.)												
211+18.79	217+96.11				612.5		2				2	
212+88.08	217+73.56			412.5		2				1		
SITE 3 (MANHATTAN EB OFF-RAMP)												
665+01.41	669+40.63			528.1 #		1		1				CONNECT TO BRIDGE APPROACH SECTION STA. 668+80.82 - 669+28.94 SHOP BENT RAIL = 50' RADIUS STA. 669+28.94 - 669+27.95 SHOP BENT RAIL = 100' RADIUS
SITE 4 (MT HWY 2)												
473+23.93	484+54.61				1,062.5		2					
SITE 5 (MURPHY LN.)												
11+72.46	19+35.58				700.0		2				2	
SITE 6 (GATES OF THE MOUNTAINS RD.)												
56+56.32	66+78.13			962.5		2				1		
SITE 7 (JIMTOWN RD.)												
195+00.30	206+45.69				1,087.5		2					
SITE 8 (BRIDGER CANYON RD.)												
196+89.87	220+29.14				2,262.5		2					
221+00.71	226+94.90				537.5		2				1	
SUBTOTAL		552.3	1,165.2	1,915.6	7,162.5	5	14	1	~	2	6	
TOTAL		1,717.5		9,078.1		19		1		8		

INCLUDES 28.1' MGS TO METAL GUARDRAIL TRANSITION

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
SITE 3 (MANHATTAN EB OFF-RAMP)				
STRIPING - YELLOW EPOXY	*gallon*		*1*	*1*
WORDS & SYMBOLS - WHITE EPOXY	*gallon*		*1*	*1*
REMOVE PAVEMENT MARKINGS	*linear feet*		*282*	*282*

 # BASED ON 1 APPLICATION.

MAILBOXES

STATION	each	REMARKS
	RESET MAILBOX	
212+29.12	*1*	*PLACE MAILBOX 1' FROM EOP*
TOTAL	**1**	

SHEET NO. 7

SUMMARIES

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. PIERCE 1/14/2025	D. RELPH 1/27/2025	T. JOHNSON 1/27/2025

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MONTANA Department of Transportation

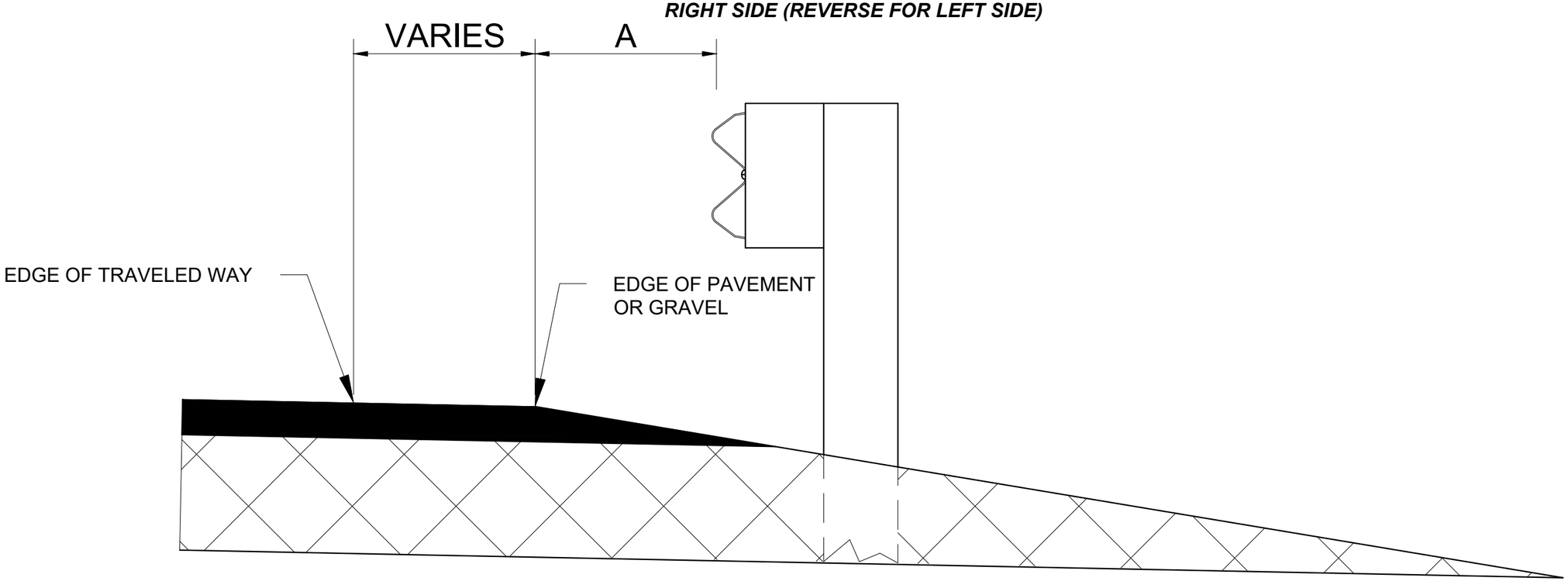
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DETAIL

RIGHT SIDE (REVERSE FOR LEFT SIDE)



SITE	GUARDRAIL OFFSET
	A
1	0'
2	0'
3	0' *
4	0'
5	0'
6	2'
7	0'
8	0'
*FOR RADIUS RETURN, SEE PLAN SHEET	

SHEET NO. 8

GUARDRAIL WIDENING DETAIL

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	REVIEWED BY	CHECKED BY
T. PIERCE 1/14/2025	D. RELPH 1/27/2025	T. JOHNSON 1/27/2025

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1/29/2025 11:03 AM

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420+58

BOA 420+57.87

421+99.17
PRIVATE APP. LT.
DO NOT DISTURB

422+02.16
PRIVATE APP. RT.
DO NOT DISTURB

PC 423+08.70

PI = 426+99.70
Δ = 37° 40' 48" (LT)
R = 1,146'
T = 390.99'
L = 753.60'
E = 64.87'

SEC. 7 & 8
T. 5 S., R. 9 E.

EAST RIVER RD.

S57° 56' 36.62"W

NEW OTS
NEW END SECTION WIDENING

SITE 1
422+35.79
BEG. HSIP STWD(968)

422+61.87

NEW LONG POST GUARDRAIL RT.

430+00

PT 430+62.30

SEC. 7
T. 5 S., R. 9 E.

432+26.94
U.G. TEL X-ING
DEPTH UNKNOWN

433+75.17
PUBLIC APP. RT.
DO NOT DISTURB

PC 433+78.90

EAST RIVER RD.

S20° 15' 48.62"W

NEW OTS

SITE 1
432+39.12
END HSIP STWD(968)

PI = 440+08.16
Δ = 47° 26' 00" (RT)
R = 1,432'
T = 629.26'
L = 1,185.80'
E = 132.13'

CHICORY RD.

NEW LONG POST GUARDRAIL RT.

432+22.71

432+71.06
36" CSP DR. IN PL.
DO NOT DISTURB

SHEET NO.
9

PLAN SHEET
SITE 1 EAST RIVER RD.

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	T. PIERCE	1/14/2025
REVIEWED BY	D. RELPH	1/27/2025
CHECKED BY	T. JOHNSON	1/27/2025

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MONTANA
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210+00

BOA 210+00.00

210+49.76
PRIVATE APP. LT.
DO NOT DISTURB

210+82.47
PRIVATE APP. RT.
DO NOT DISTURB

210+59.76
U.G. GAS LINE
DEPTH UNKNOWN

212+29.12
RESET MAILBOX LT.

212+45.37
PRIVATE APP. LT.
DO NOT DISTURB

T. 1 S R. 4 E
SEC. 22

PI = 215+12.26
Δ = 19° 28' 46" (LT)
R = 950'
T = 163.06'
L = 322.98'
E = 13.89'

PC 213+49.19

NEW OTS
NEW END SECTION WIDENING

FO
GAS
WL

WEST CAMERON BRIDGE RD.

S88° 41' 40.37"E

NEW OTS
NEW END SECTION WIDENING

SITE 2
210+92.66
BEG. HSIP STWD(968)

211+18.79

212+88.08

NEW LONG POST GUARDRAIL LT.

NEW LONG POST GUARDRAIL RT.

214+29.21
48" CSP DR. IN PL.
DO NOT DISTURB

220+00

T. 1 S R. 4 E
SEC. 15 & 22

PT 216+72.18

PC 217+61.86

217+99.60
FARM FIELD APP. LT.
REMOVE

218+64.39
PUBLIC APP. RT.
DO NOT DISTURB

NEW OTS

WEST CAMERON BRIDGE RD.

N71° 49' 33.69"E

NEW OTS
NEW END SECTION WIDENING

SITE 2
218+23.13
END HSIP STWD(968)

POWL LN.

PI = 219+11.85
Δ = 18° 55' 25" (RT)
R = 900'
T = 149.99'
L = 297.25'
E = 12.41'

PT 220+59.11

S89° 15' 01.66"E

NEW LONG POST GUARDRAIL LT.

NEW LONG POST GUARDRAIL RT.

217+73.56

217+96.11

SHEET NO.
10

PLAN SHEET
SITE 2 WEST CAMERON BRIDGE RD.

SF229 GUARDRAIL DIST 2 & 3

PROJECT NAME

COUNTY
GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK

PROJECT ID
HSIP STWD(969)

UPN
10398000

DESIGNED BY	T. PIERCE	1/14/2025
REVIEWED BY	D. RELPH	1/27/2025
CHECKED BY	T. JOHNSON	1/27/2025

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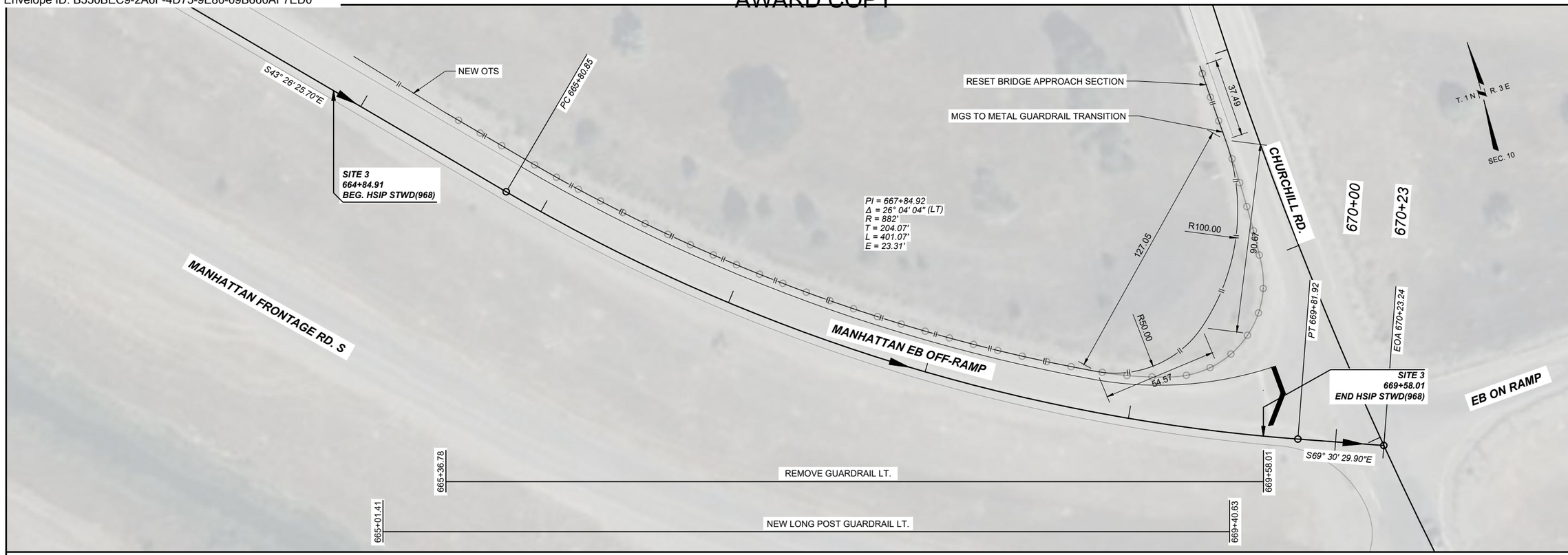
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SHEET NO. 11

PLAN SHEET
SITE 3 MANHATTAN INTERCHANGE

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Department of Transportation

PROJECT NAME	SF229 GUARDRAIL DIST 2 & 3
COUNTY	GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID	HSIP STWD(969)
UPN	10398000

DESIGNED BY	T. PIERCE	1/14/2025
REVIEWED BY	D. RELPH	1/27/2025
CHECKED BY	T. JOHNSON	1/27/2025

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472+55.49
PULLOUT RT.
DO NOT DISTURB

T. 1 N. R. 2 W.
SEC. 23

PC 477+36.10

MT HWY 2

S72° 46' 10.27"E

NEW OTS

END OF PULLOFF = 473+01.08'

SITE 4
473+07.44
BEG. HSIP STWD(968)

473+23.93

NEW LONG POST GUARDRAIL RT.

480+00

PI = 479+99.98
Δ = 15° 44' 00" (LT)
R = 1,910'
T = 263.88'
L = 524.44'
E = 18.14'

T. 1 N. R. 2 W.
SEC. 23

PT 482+63.90

485+01.91
FARM APP. RT.
DO NOT DISTURB

485+75.64
PULLOUT RT.
DO NOT DISTURB

MT HWY 2

S88° 30' 10.27"E

NEW OTS

SITE 4
484+71.18
END HSIP STWD(968)

STATION: 482+63.90 AH
EQ (-3.36) STATION: 482+60.54 BK

NEW LONG POST GUARDRAIL RT.

484+54.61

SHEET NO.
12

PLAN SHEET
SITE 4 MT HWY 2

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY		REVIEWED BY		CHECKED BY	
T. PIERCE	1/14/2025	D. RELPH	1/27/2025	T. JOHNSON	1/27/2025

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SHEET NO.
13

PLAN SHEET
SITE 5 MURPHY LN.

PROJECT NAME: **SF229 GUARDRAIL DIST 2 & 3**
COUNTY: **GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK**
PROJECT ID: **HSIP STWD(969)**
UPN: **10398000**

DESIGNED BY	T. PIERCE	1/14/2025
REVIEWED BY	D. RELPH	1/27/2025
CHECKED BY	T. JOHNSON	1/27/2025

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SHEET NO.
14

PLAN SHEET
SITE 6 GATES OF THE MOUNTAINS RD.

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	T. PIERCE	1/14/2025
REVIEWED BY	D. RELPH	1/27/2025
CHECKED BY	T. JOHNSON	1/27/2025

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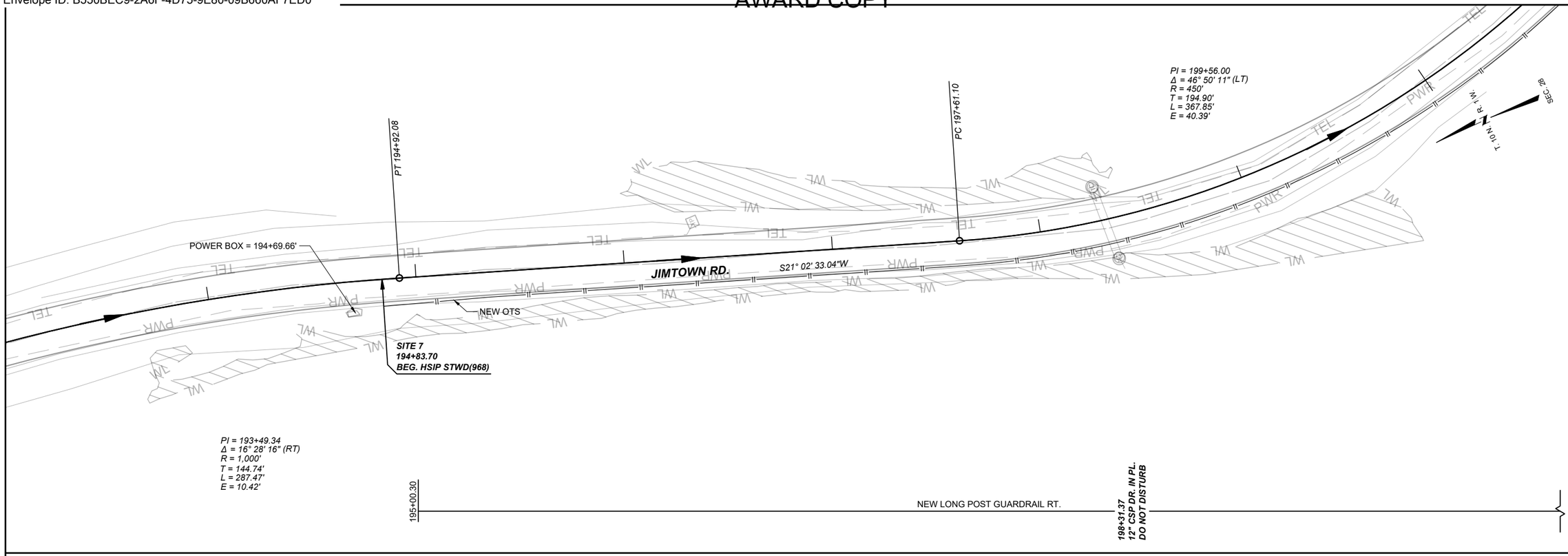
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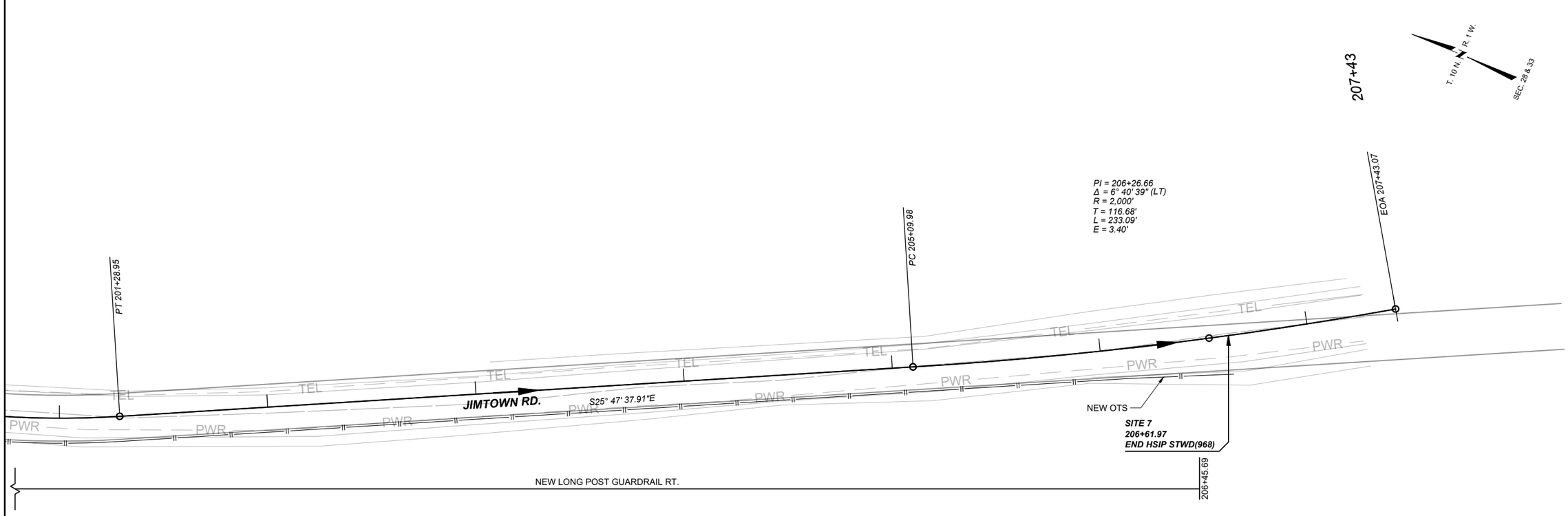
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SHEET NO. 15

PLAN SHEET
SITE 7 JIMTOWN RD.

PROJECT NAME: **SF229 GUARDRAIL DIST 2 & 3**
COUNTY: **GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK**
PROJECT ID: **HSIP STWD(969)**
UPN: **10398000**

DESIGNED BY	1/14/2025	T. PIERCE	
REVIEWED BY	1/27/2025	D. RELPH	
CHECKED BY	1/27/2025	T. JOHNSON	

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Department of Transportation

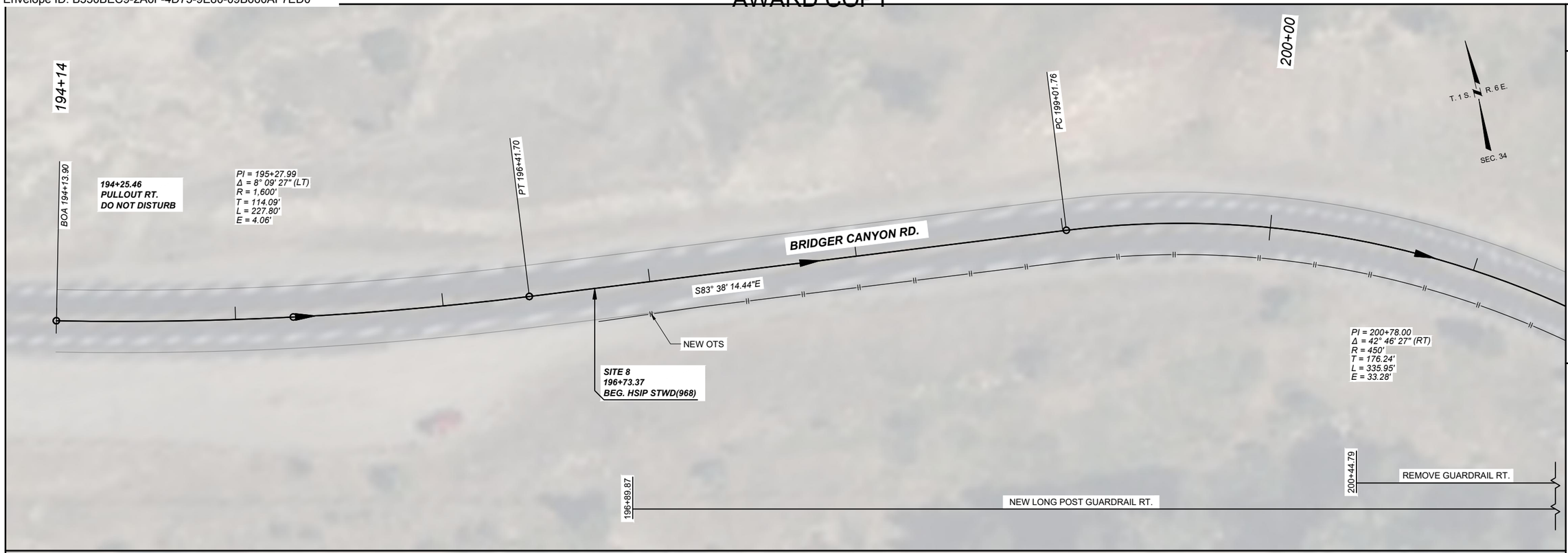
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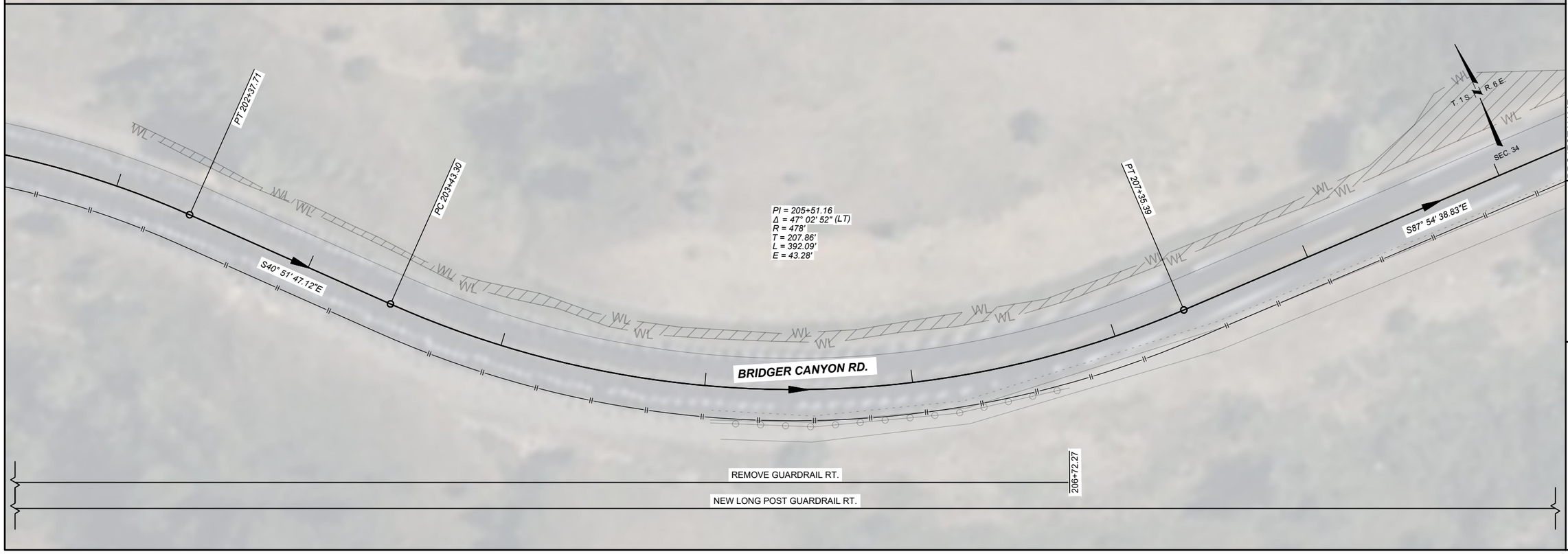
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SHEET NO.
16

PLAN SHEET
SITE 8 BRIDGER CANYON RD.

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	T. PIERCE	1/14/2025
REVIEWED BY	D. RELPH	1/27/2025
CHECKED BY	T. JOHNSON	1/27/2025

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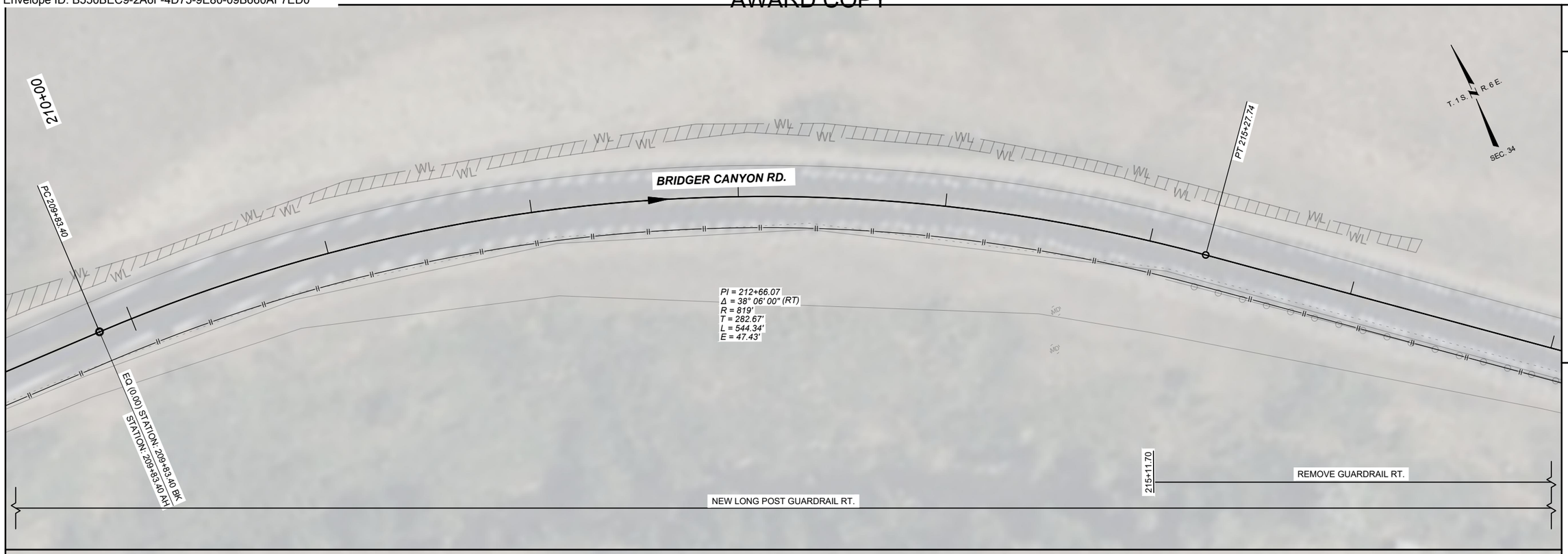
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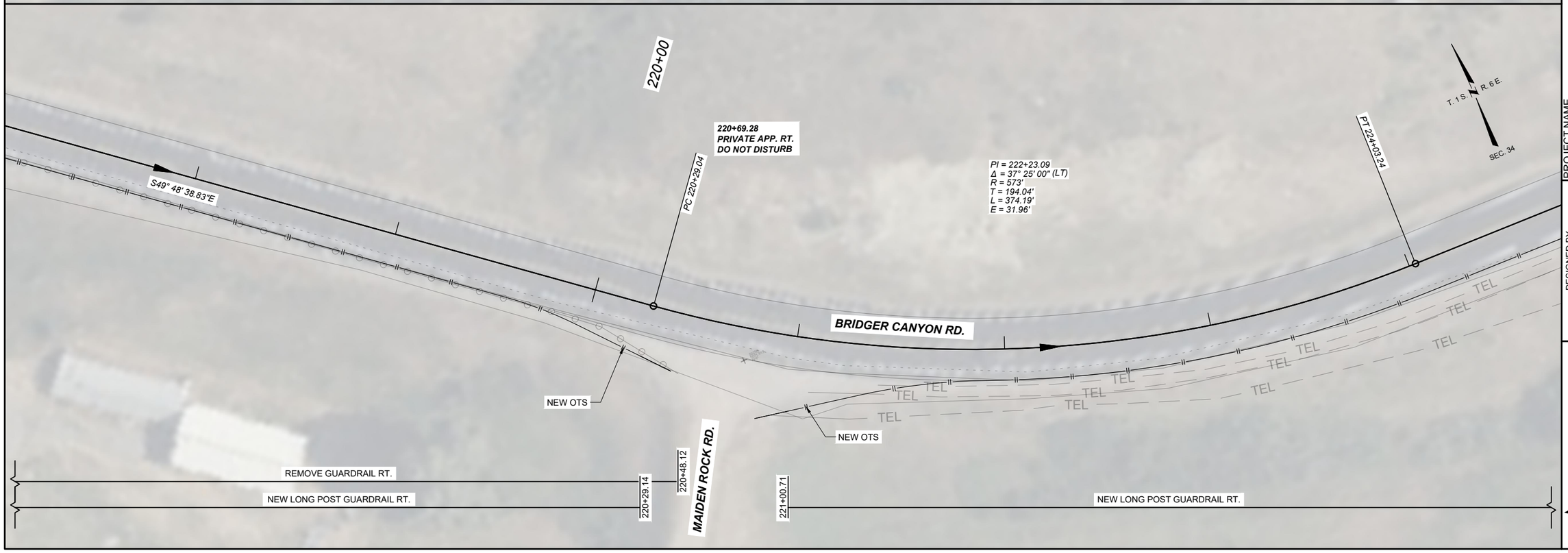
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SHEET NO. 17

PLAN SHEET
SITE 8 BRIDGER CANYON RD.

PROJECT NAME: **SF229 GUARDRAIL DIST 2 & 3**
COUNTY: **GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK**
PROJECT ID: **HSIP STWD(969)**
UPN: **10398000**

DESIGNED BY	T. PIERCE	1/14/2025
REVIEWED BY	D. RELPH	1/27/2025
CHECKED BY	T. JOHNSON	1/27/2025

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SHEET NO.
18

PLAN SHEET
SITE 8 BRIDGER CANYON RD.

PROJECT NAME
SF229 GUARDRAIL DIST 2 & 3

COUNTY
GALLATIN, JEFFERSON, LEWIS & CLARK, & PARK

PROJECT ID
HSIP STWD(969)

UPN
10398000

DESIGNED BY		DRAWN BY	
T. PIERCE	1/14/2025	T. PIERCE	1/14/2025
REVIEWED BY		CHECKED BY	
D. RELPH	1/27/2025	T. JOHNSON	1/27/2025

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NOTES AND ABBREVIATIONS:

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

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

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

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

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

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

✕	=	STANDARD BREAKAWAY DEVICE: • FOR WOOD POST SEE DETAILED DRAWING 619-20. • FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.
▲	=	SINGLE SQUARE TUBE REQUIRED. MOUNTED IN HEAVY DUTY STUB.
★	=	TELESCOPED SQUARE TUBES (2-1/4" & 2-1/2") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.
■	=	FRANGIBLE SIGN POST. BREAKAWAY DEVICE REQUIRED.
AIR	=	ANGLE IRON REQUIRED 2 1/2" x 2 1/2" x 3/8" x 6'-4" (37 lbs.)
BBR	=	BACKBRACING REQUIRED: • -FOR WOOD POST 2" X 4" REQ'D. • - FOR STRUCTURAL STEEL 2" X 2" X 1/4" ANGLE IRON REQ'D.
BGR	=	BEHIND GUARDRAIL
FY	=	FLUORESCENT YELLOW SHEETING REQUIRED.
FYG	=	FLUORESCENT YELLOW - GREEN SHEETING REQUIRED.
MBB	=	MOUNT BACK TO BACK
RSFO	=	REPLACE SIGN FACE ONLY

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTALS	UNIT
SIGNS-ALUM REFL SHEET XI	121.4	SQFT
REMOVE SIGN	3	EACH
POSTS-TUBULAR STEEL	93	LB
POLES-TREATED WOOD 4 IN	124	LNFT
POLES-TREATED WOOD 5 IN	48	LNFT
FRANG SIGN POST BKWY-3.5 IN RD (89MM)	1	EACH
DELINEATOR TYPE 1	94	EACH
DELINEATOR TYPE 2	34	EACH

DELINEATION SPECIFICATIONS		
SYMBOL	DESIGN	TOTALS
⊣	A	87
⊢⊣	C	34
⊢	F	7

SHEET NO.
S1

SIGNING SUMMARY
FRAMES AND NOTES

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: PARK, GALLATIN, JEFFERSON, LEWIS & CLARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY		REVIEWED BY		CHECKED BY	
S. WATSON	10/2024	D. RELPH	01/2025	N. STYREN	11/2024

10398000SISUM001.DWG

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Department of Transportation

SIGNING PLANS

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SITE 1 - EAST RIVER ROAD (S-540)		
MATERIAL	**TOTALS**	**UNIT**
NO SIGNING INVOLVED		

SITE 2 - WEST CAMERON BRIDGE ROAD (L-16-403)		
MATERIAL	**TOTALS**	**UNIT**
NO SIGNING INVOLVED		

SITE 3 - MANHATTAN EB OFF-RAMP		
MATERIAL	**TOTALS**	**UNIT**
SIGNS-ALUM REFL SHEET XI	**31.0**	SQFT
REMOVE SIGN	**2**	EACH
POSTS-TUBULAR STEEL	**93**	LB
POLES-TREATED WOOD 4 IN	**12**	LNFT
FRANG SIGN POST BKWY-3.5 IN RD (89MM)	**1**	EACH

SITE 4 - MT-2 (X-22249)		
MATERIAL	**TOTALS**	**UNIT**
SIGNS-ALUM REFL SHEET XI	**12.6**	SQFT
POLES-TREATED WOOD 4 IN	**28**	LNFT
DELINEATION SPECIFICATIONS		
SYMBOL	**DESIGN**	**TOTALS**
⊣	**A**	12

SITE 5 - MURPHY LANE (S-571)		
MATERIAL	**TOTALS**	**UNIT**
ADDING DELINEATORS - NO OTHER SIGNING INVOLVED		
DELINEATION SPECIFICATIONS		
SYMBOL	**DESIGN**	**TOTALS**
⊣	**A**	52

SITE 6 - GATES OF THE MOUNTAINS ROAD (L-25-428)		
MATERIAL	**TOTALS**	**UNIT**
SIGNS-ALUM REFL SHEET XI	**12.6**	SQFT
REMOVE SIGN	**1**	EACH
POLES-TREATED WOOD 4 IN	**28**	LNFT

SITE 7 - JIMTOWN ROAD (L-25-7)		
MATERIAL	**TOTALS**	**UNIT**
SIGNS-ALUM REFL SHEET XI	**12.6**	SQFT
POLES-TREATED WOOD 4 IN	**28**	LNFT

SITE 8 - MONTANA 86 (P-86)		
MATERIAL	**TOTALS**	**UNIT**
SIGNS-ALUM REFL SHEET XI	**40.0**	SQFT
POLES-TREATED WOOD 5 IN	**48**	LNFT
DELINEATION SPECIFICATIONS		
SYMBOL	**DESIGN**	**TOTALS**
⊣	**A**	23
⊢⊣	**C**	34
⊢	**F**	7

SHEET NO.
S2

SIGNING SUMMARY
FRAMES BY SITE

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: PARK, GALLATIN, JEFFERSON, LEWIS & CLARK
PROJECT ID: HSIP STWD(969)
UPN: 1039800

DESIGNED BY	REVIEWED BY	CHECKED BY
S. WATSON 10/2024	D. RELPH 01/2025	N. STYREN 11/2024

1039800SISUM001.DWG

MONTANA
Department of Transportation

SIGNING PLANS

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS						SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET					CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMOVE		RESET		SIGN IMAGE	SIGN STATUS & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X Y Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN	GUIDE	SIGN	GUIDE		
SITE 1 - EAST RIVER ROAD (S-540) - RP 16+0.370-16+0.580																																	
NO SIGNING INVOLVED																																	
SITE 2 - WEST CAMERON BRIDGE ROAD (L-16-403) - RP 3+0.990-4+0.130																																	
NO SIGNING INVOLVED																																	
SITE 3 - MANHATTAN EB OFF-RAMP - RP 0+0.000-0+0.200																																	
669+24		EB		R6-1L	36 X 12					5.0	3.5" Tubular Stl-Round		4.0		3.0	10.2			■	BGR	3.0				93				1				ONE WAY	REPLACE
X																																	
				R6-1R	36 X 12																3.0												ONE WAY	REPLACE
				R5-1	48 X 48		BBR														16.0												DO NOT ENTER	REPLACE
669+34		EB		R3-1	36 X 36					5.0	4" Treated Wood Pole		4.0		3.0	11.1				BGR	9.0		12						1					REPLACE
X																																	
SITE 4 - MT-2 (X-22249) - RP 9+0.420-9+0.770																																	
476+11		EB		W1-2L	30 X 30	FY				5.0	4" Treated Wood Pole		5.0		3.0	12.5				BGR	6.3		14											NEW
		X																															
483+89		EB		W1-2R	30 X 30	FY				10.0	4" Treated Wood Pole		5.0		3.0	13.3					6.3		14											NEW
X																																	
SITE 5 - MURPHY LANE (S-571) - RP 0+0.790-0+0.960																																	
ADDING DELINEATORS - NO OTHER SIGNING INVOLVED																																	
SITE 6 - GATES OF THE MOUNTAINS ROAD (L-25-428) - RP 1+0.120-1+0.300																																	
57+05		EB		W1-4R																									1					REMOVE
		X																															
58+65		EB		W1-2R	30 X 30	FY				10.0	4" Treated Wood Pole		5.0		3.0	13.3					6.3		14											NEW
		X																															
64+63		EB		W1-2L	30 X 30	FY				5.0	4" Treated Wood Pole		5.0		3.0	12.5				BGR	6.3		14											NEW
X																																	

SHEET NO.
S3

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: PARK, GALLATIN, JEFFERSON, LEWIS & CLARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY		REVIEWED BY		CHECKED BY	
S. WATSON	10/2024	D. RELPH	01/2025	N. STYREN	11/2024

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MONTANA Department of Transportation

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS						SIGN ASSEMBLY SPECIFICATIONS									SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET		FEET							PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				REMOVE		RESET			
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	SIGN STATUS & REMARKS
SITE 7 - JIMTOWN ROAD (L-25-7) - RP 3+0.700-3+0.920																															
196+36		SB																													
		X		W1-2L	30 X 30	FY				5.0	4" Treated Wood Pole		5.0		3.0	12.5					BGR	6.3		14									NEW
202+54		SB																													
X				W1-2R	30 X 30	FY				10.0	4" Treated Wood Pole		5.0		3.0	13.3						6.3		14									NEW
SITE 8 - MONTANA 86 (P-86) - RP 4+0.640-5+0.250																															
219+04		EB																													
		X		W1-2L	30 X 30	FY				5.0	4" Treated Wood Pole		5.0		3.0	12.5					BGR	6.3		14									NEW
220+29		EB																													
		X		W1-8L	24 X 30	FY		MBB		5.0	5" Treated Wood Pole		5.0		3.5	12.0					BGR	10.0			12								NEW
221+49		EB																													
		X		W1-8L	24 X 30	FY		MBB		5.0	5" Treated Wood Pole		5.0		3.5	12.0					BGR	10.0			12								NEW
222+69		EB																													
		X		W1-8L	24 X 30	FY		MBB		5.0	5" Treated Wood Pole		5.0		3.5	12.0					BGR	10.0			12								NEW
223+89		EB																													
		X		W1-8L	24 X 30	FY		MBB		5.0	5" Treated Wood Pole		5.0		3.5	12.0					BGR	10.0			12								NEW
225+29		EB																													
X				W1-2R	30 X 30	FY				10.0	4" Treated Wood Pole		5.0		3.0	13.3						6.3		14									NEW
PROJECT TOTALS																			121.4		124	48	93				3					

SHEET NO.
S4

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: PARK, GALLATIN, JEFFERSON, LEWIS & CLARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY: S. WATSON 10/2024
REVIEWED BY: D. RELPH 01/2025
CHECKED BY: N. STYREN 11/2024

MONTANA Department of Transportation

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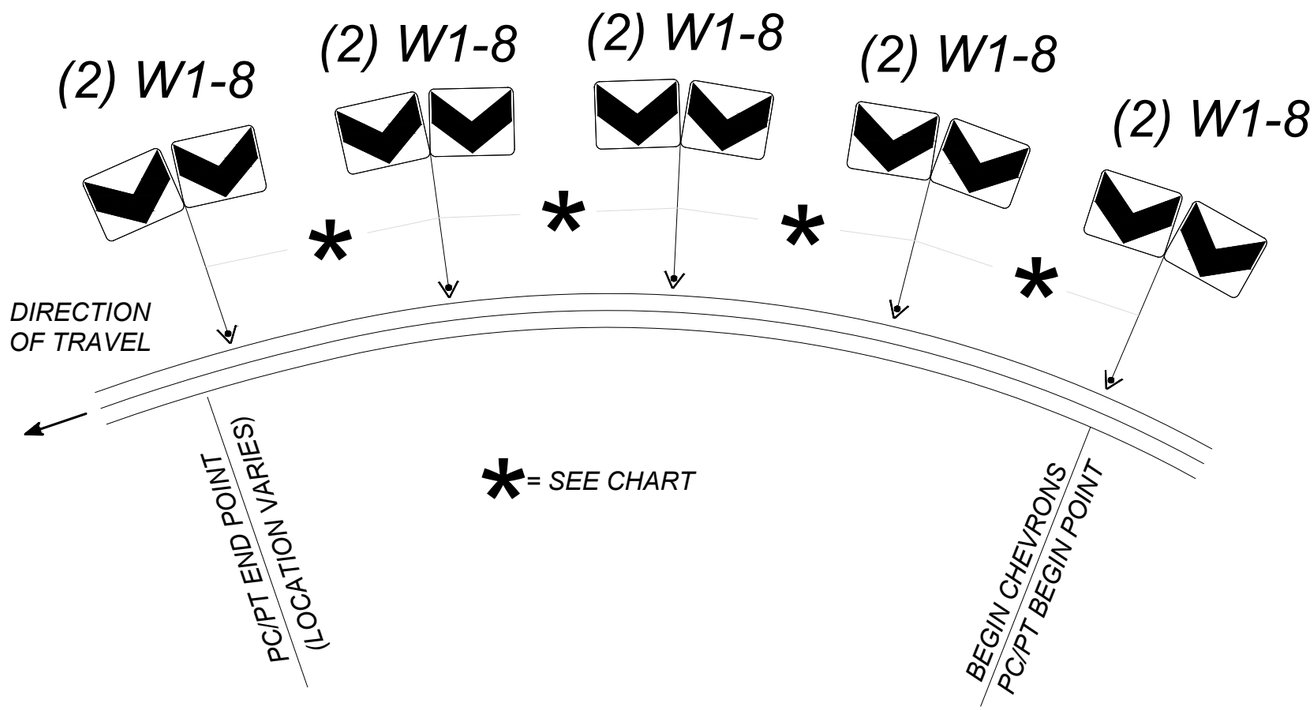
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CHEVRON PLACEMENT DETAIL

(GUIDANCE ONLY)



CURVE RADIUS	SIGN SPACING		R.P. CONVERSION
<200'	40'	=	.008±
200' - 400'	80'	=	.015±
401' - 700'	120'	=	.023±
701' - 1250'	160'	=	.030±
>1250'	200'	=	.038±

1) SEE SPEC SHEET FOR CHEVRON PLACEMENT

2) INSTALL CHEVRONS FROM BEGINNING OF CURVE POINT IN DIRECTION OF TRAVEL ALONG OUTSIDE OF CURVE

SHEET NO.
S5

DETAIL

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: PARK, GALLATIN, JEFFERSON, LEWIS & CLARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	S. WATSON	10/2024
REVIEWED BY	D. RELPH	01/2025
CHECKED BY	N. STYREN	11/2024

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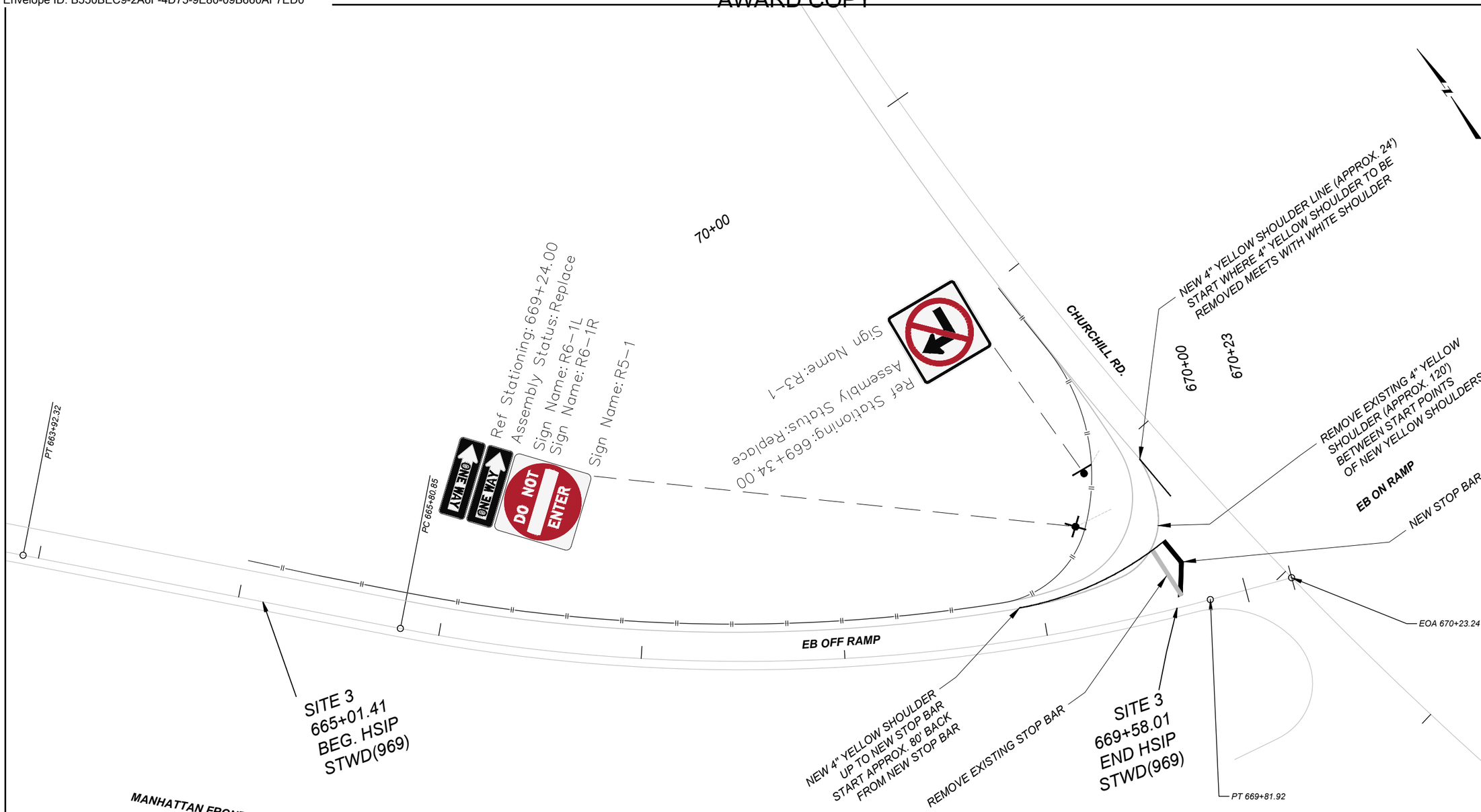
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SHEET NO.
S6

SITE 3 - MANHATTAN
EB OFF-RAMP

PROJECT NAME: **SF229 GUARDRAIL DIST 2 & 3**
COUNTY: **PARK, GALLATIN, JEFFERSON, LEWIS & CLARK**
PROJECT ID: **HSIP STWD(969)**
UPN: **10398000**

DESIGNED BY		REVIEWED BY		CHECKED BY	
S. WATSON	10/2024	D. RELPH	01/2025	N. STYREN	11/2024

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480+00

PC 477+36.10

PT 482+63.90

R = 1910'
160', 320' DELINEATOR SPACING
125' BEFORE PC AND AFTER PT FOR ADVANCE
CURVE WARNING SIGNS

MT HWY 2

SITE 4
473+11.43
BEG. HSIP
STWD(969)

Ref Stationing: 476+11.00
Assembly Status: Proposed
Sign Name: W1-2L

Ref Stationing: 483+89.00
Assembly Status: Proposed
Sign Name: W1-2R

STA BACK = 482+60.54
STA AHEAD = 482+63.90

SITE 4
484+92.18
END HSIP
STWD(969)

N

SHEET NO.	S7
SITE 4 - MONTANA 2 (X-22249)	
PROJECT NAME	SF229 GUARDRAIL DIST 2 & 3
COUNTY	PARK, GALLATIN, JEFFERSON, LEWIS & CLARK
PROJECT ID	HSIP STWD(969)
UPN	10398000

DESIGNED BY	S. WATSON	10/2024
REVIEWED BY	D. RELPH	01/2025
CHECKED BY	N. STYREN	11/2024

MONTANA
Department of Transportation

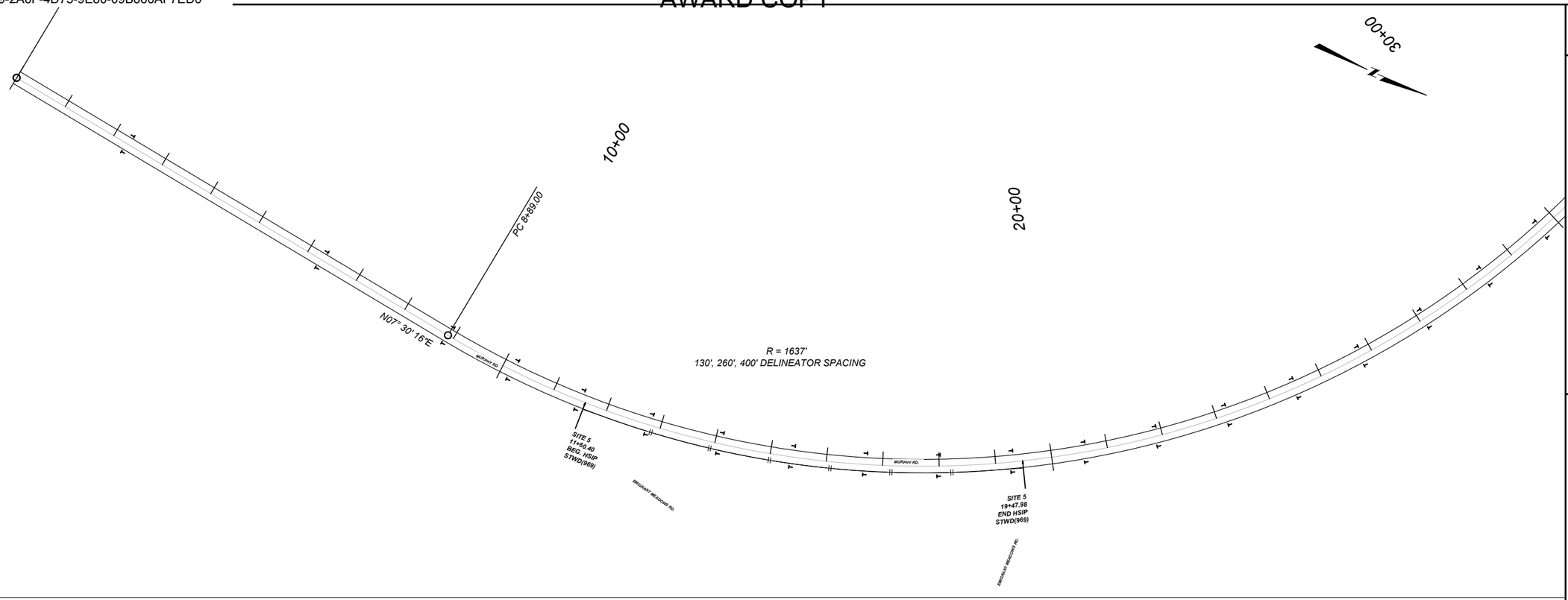
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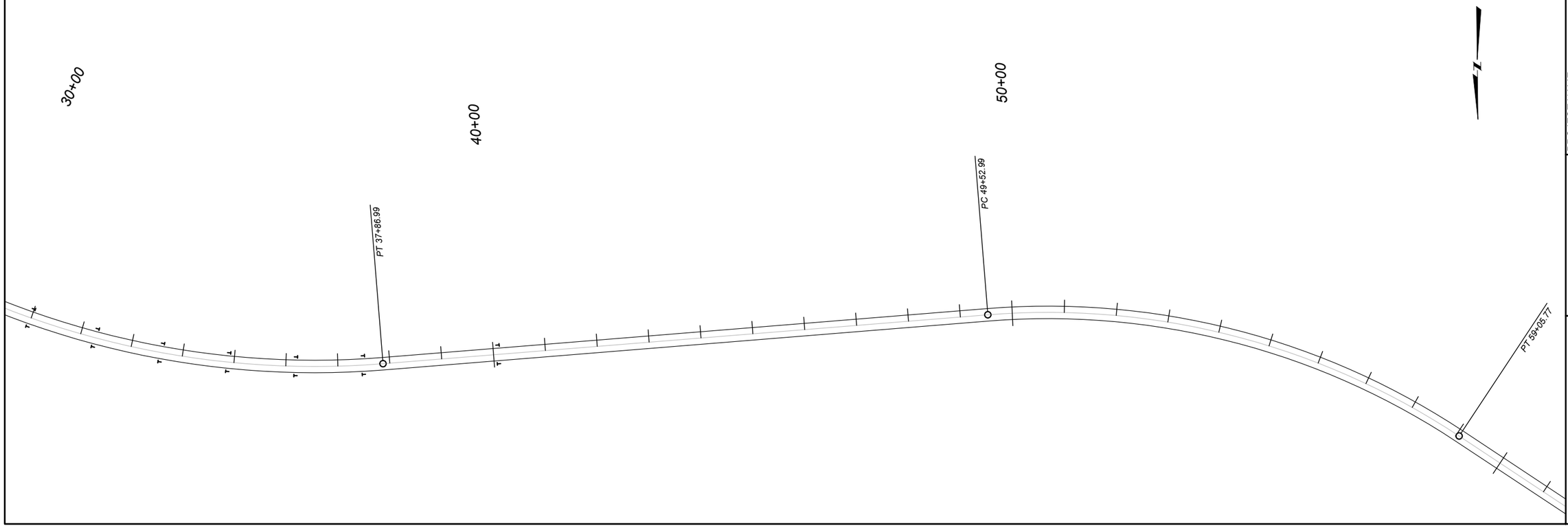
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SHEET NO.
S8

SITE 5 - MURPHY LANE (S-571)

PROJECT NAME
SF229 GUARDRAIL DIST 2 & 3

COUNTY
PARK, GALLATIN, JEFFERSON, LEWIS & CLARK

PROJECT ID
HSIP STWD(969)

UPN
10398000

DESIGNED BY		CHECKED BY	
S. WATSON	10/2024	N. STYREN	11/2024
REVIEWED BY			
D. RELPH	01/2025		

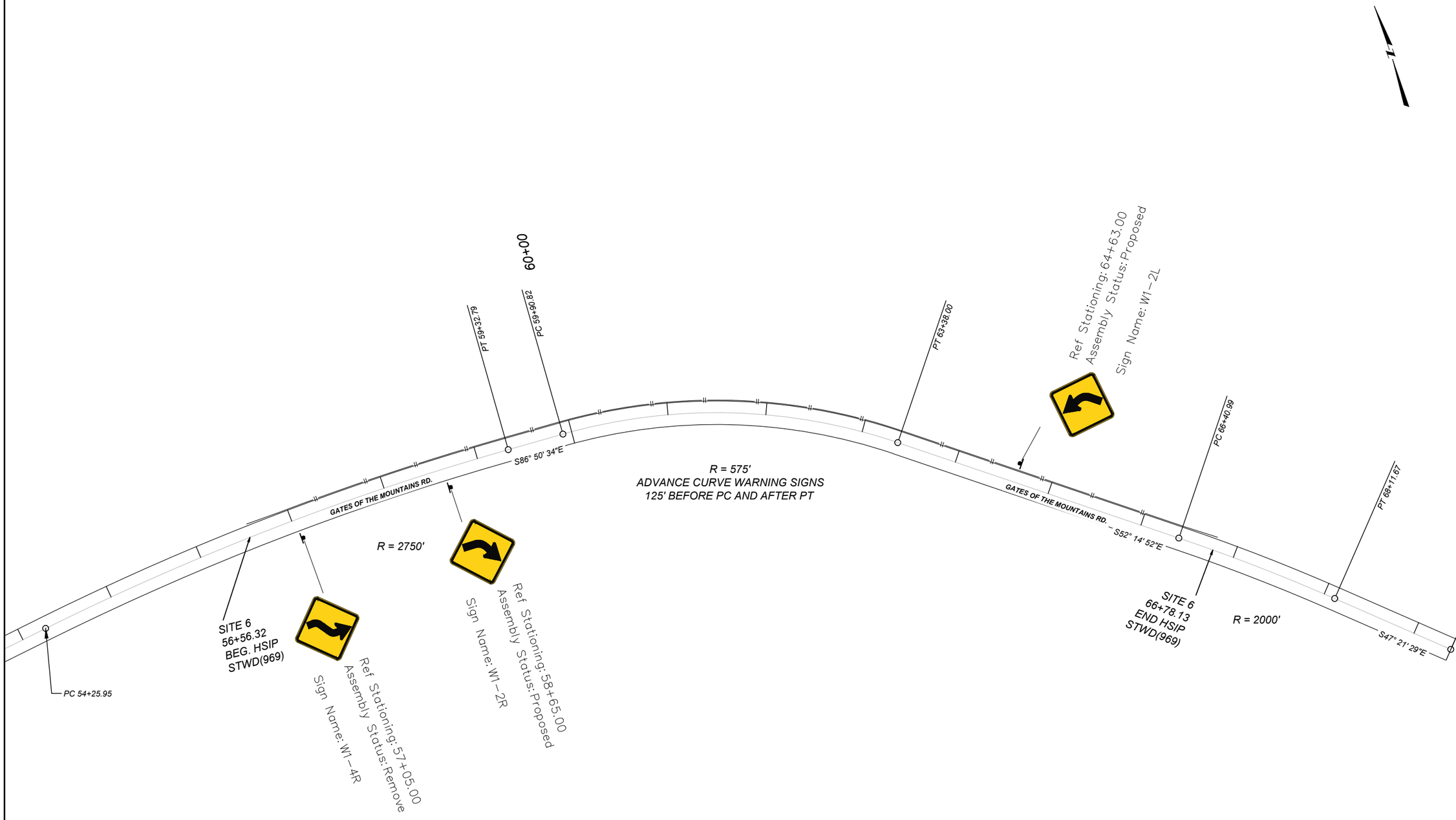
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SHEET NO.
S9

SITE 6 - GATES OF THE MOUTAINS ROAD

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3
COUNTY: PARK, GALLATIN, JEFFERSON, LEWIS & CLARK
PROJECT ID: HSIP STWD(969)
UPN: 10398000

DESIGNED BY	S. WATSON	10/2024
REVIEWED BY	D. RELPH	01/2025
CHECKED BY	N. STYREN	11/2024

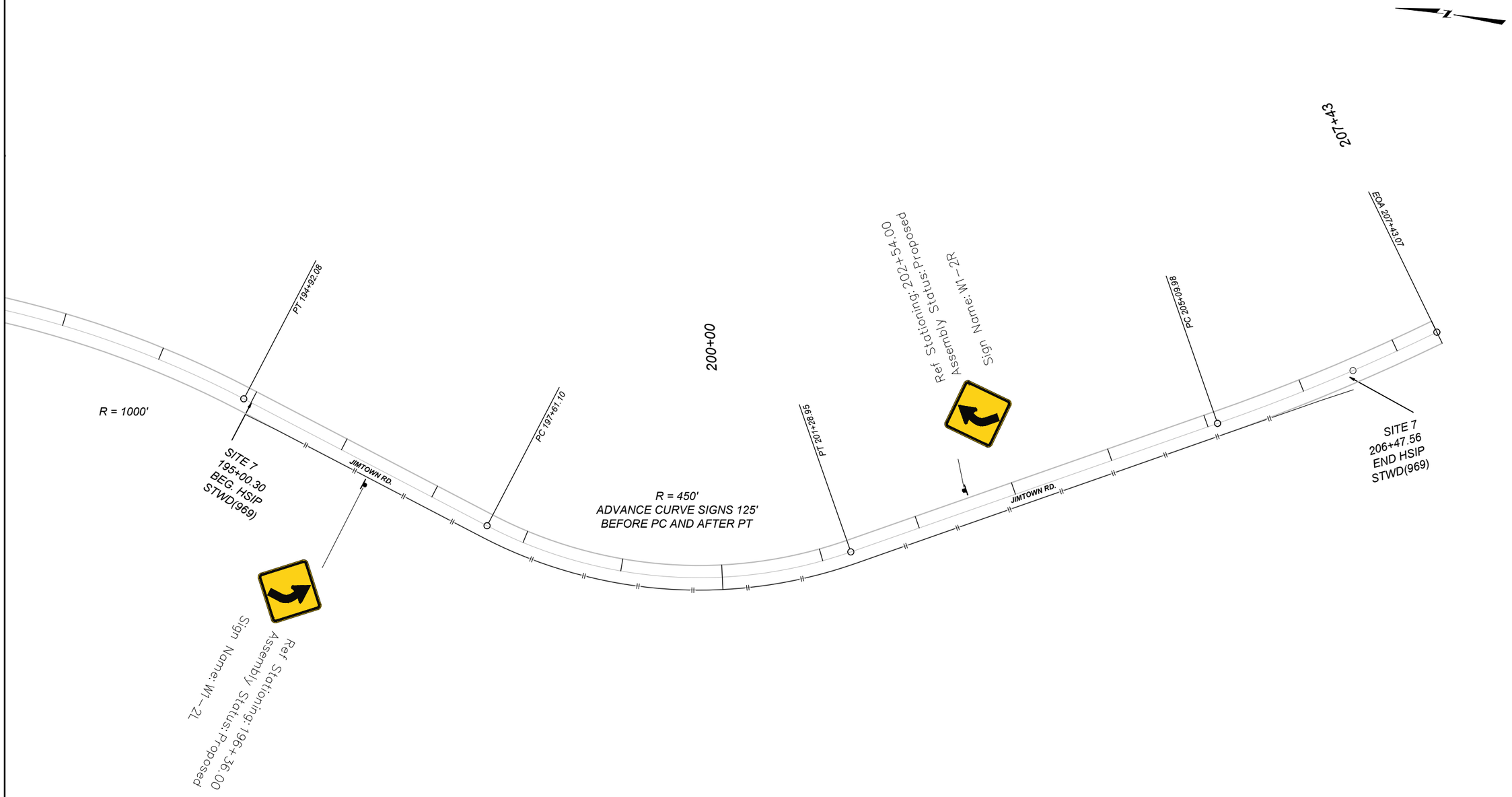
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SHEET NO. S10

SITE 7 - JIMTOWN ROAD

PROJECT NAME: SF229 GUARDRAIL DIST 2 & 3

COUNTY: PARK, GALLATIN, JEFFERSON, LEWIS & CLARK

PROJECT ID: HSIP STWD(969)

UPN: 10398000

DESIGNED BY		REVIEWED BY		CHECKED BY	
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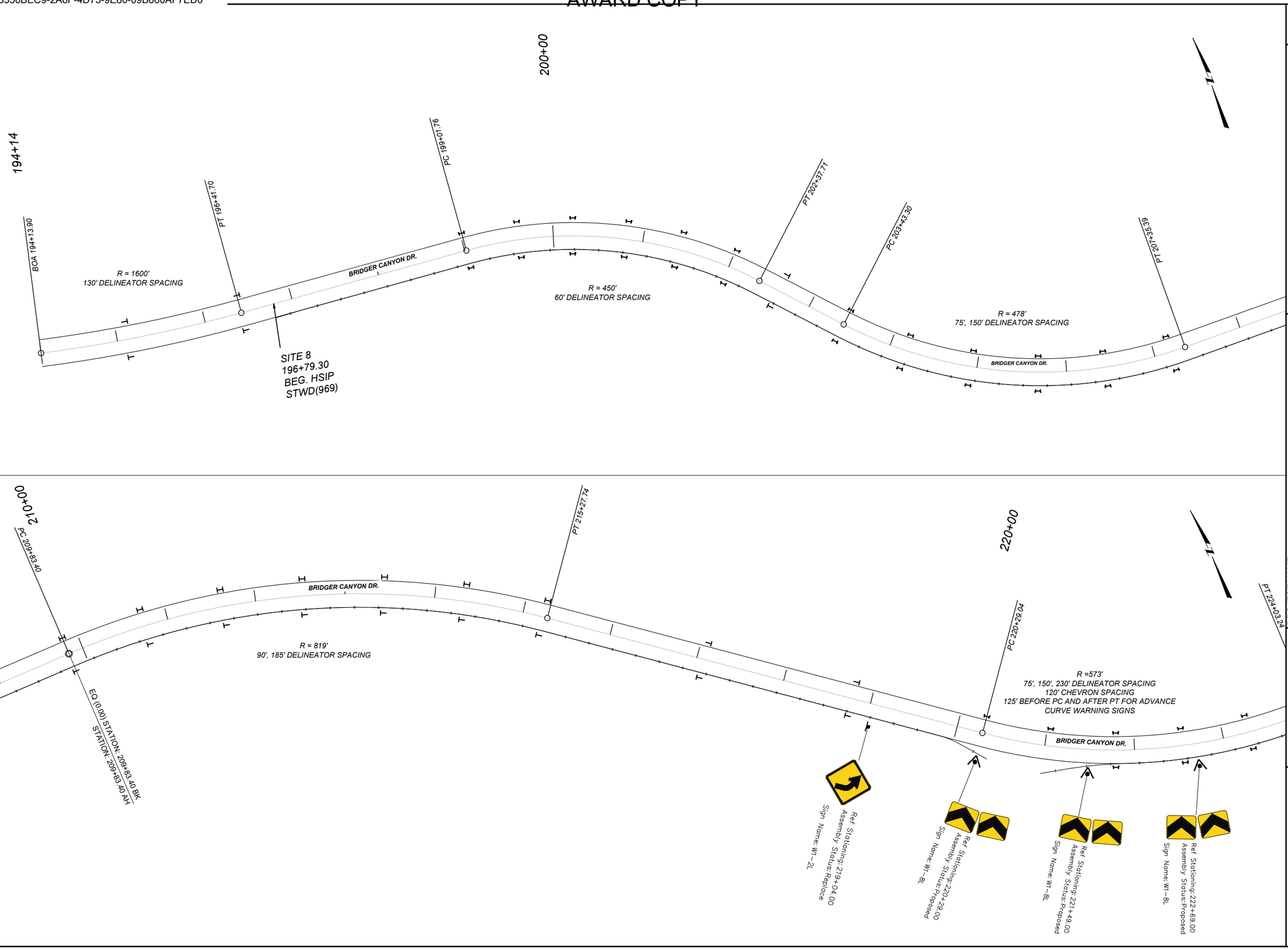
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SHEET NO.
S11

SITE 8 - MONTANA 86 (P-86)

PROJECT NAME
SF229 GUARDRAIL DIST 2 & 3

COUNTY
PARK, GALLATIN, JEFFERSON, LEWIS & CLARK

PROJECT ID
HSIP STWD(969)

UPN
10398000

DESIGNED BY		REVIEWED BY		CHECKED BY	
S. WATSON	10/2024	D. RELPH	01/2025	N. STYREN	11/2024

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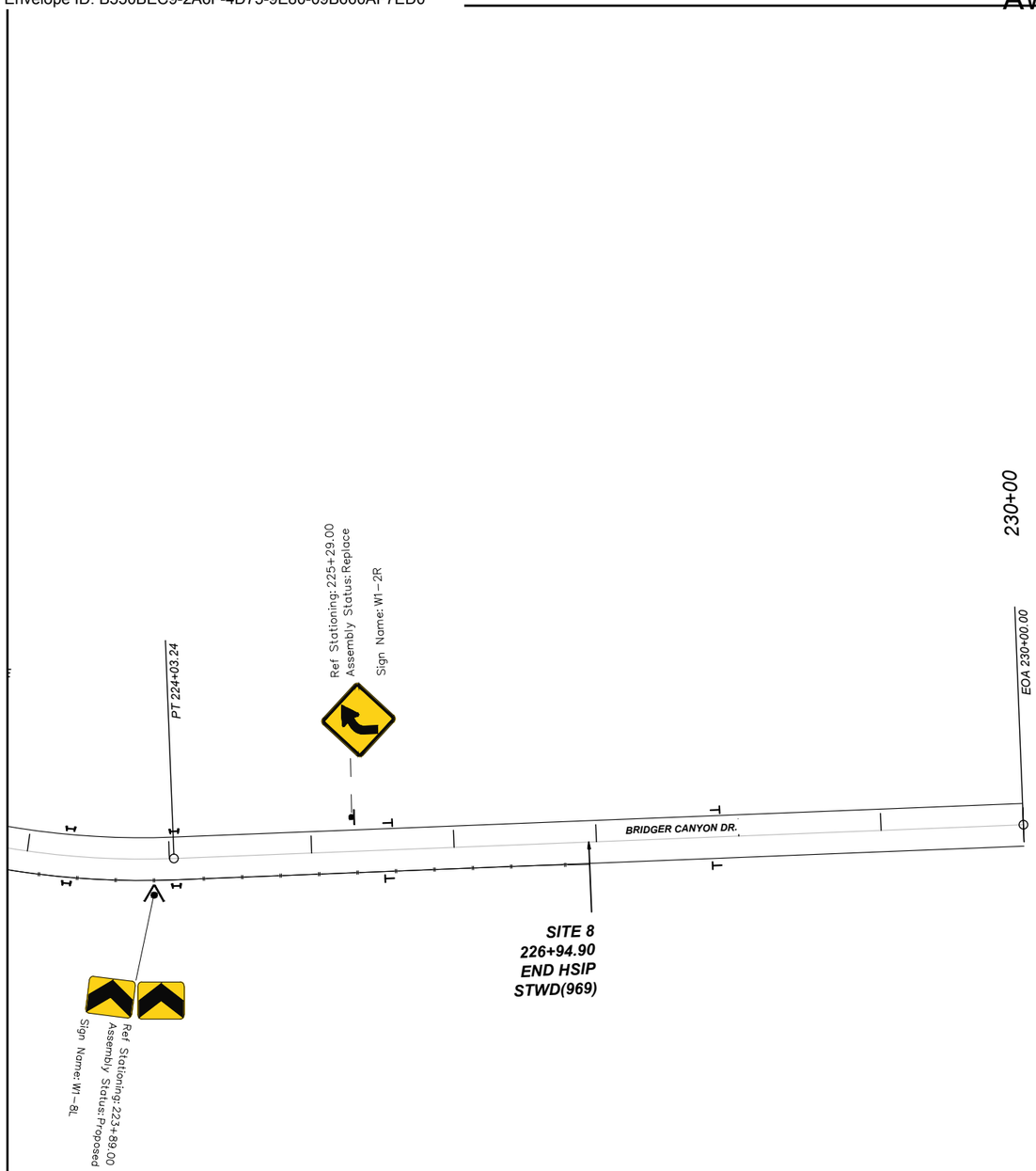
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SHEET NO.
S12

SITE 8 - MONTANA 86 (P-86)

PROJECT NAME
SF229 GUARDRAIL DIST 2 & 3

COUNTY
PARK, GALLATIN, JEFFERSON, LEWIS & CLARK

PROJECT ID
HSIP STWD(969)

UPN
10398000

DESIGNED BY		DESIGNED BY	
S. WATSON	10/2024	D. RELPH	01/2025
REVIEWED BY		CHECKED BY	
N. STYREN	11/2024	10398000SIPLN008.DWG	

MONTANA
Department of Transportation

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