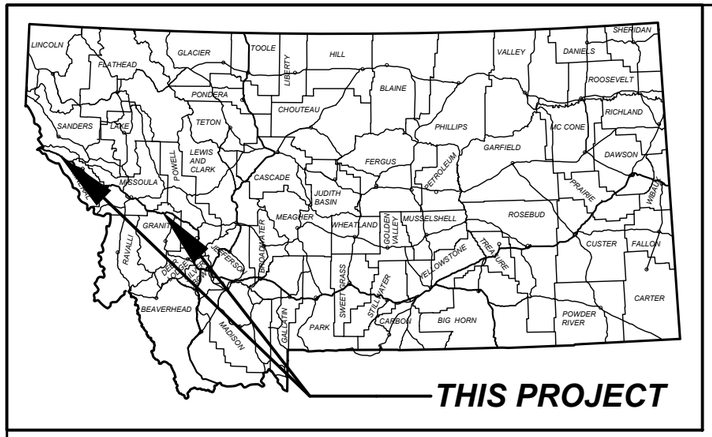
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MONTANA DEPARTMENT OF TRANSPORTATION

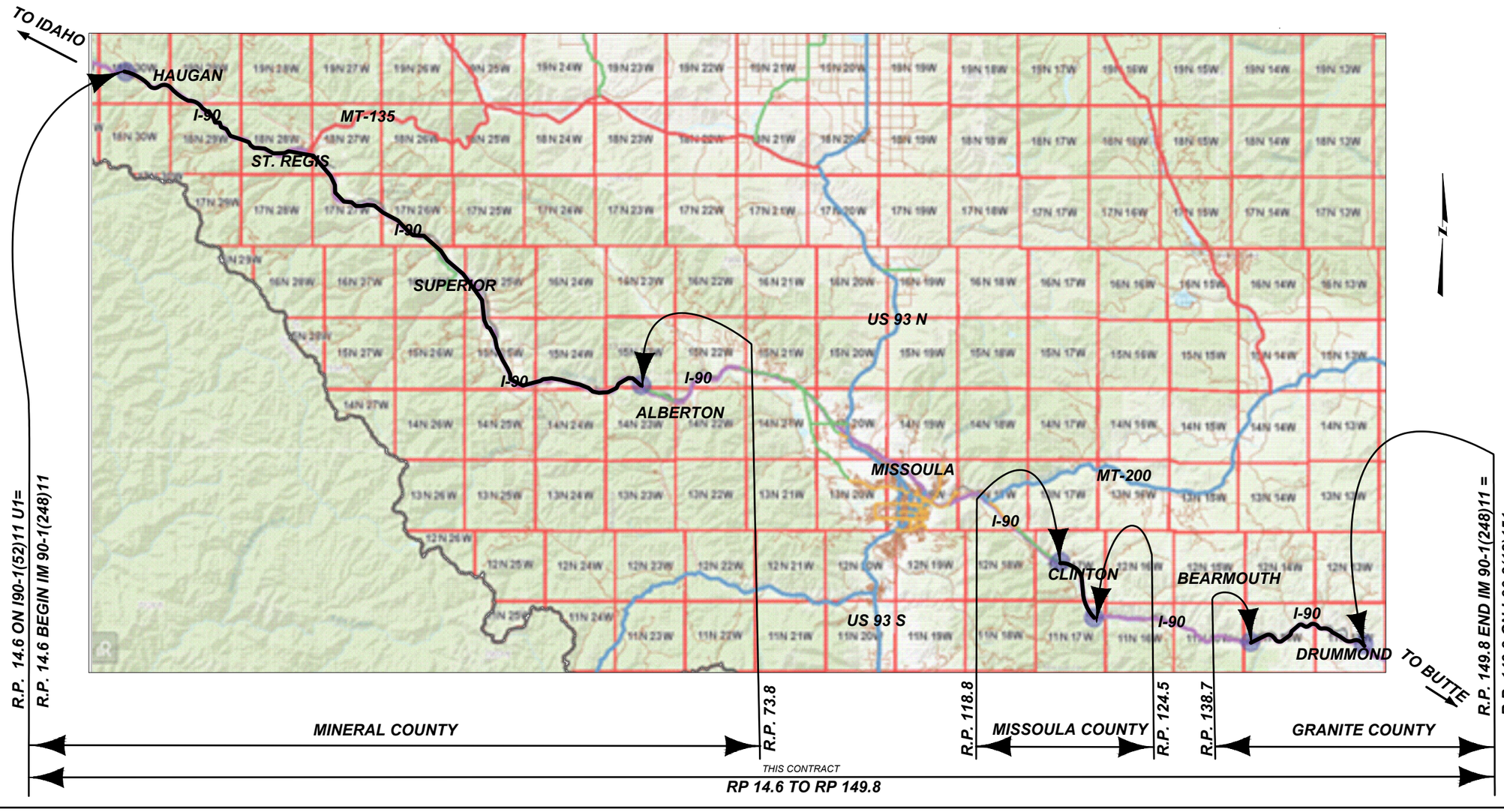
FEDERAL AID PROJECT IM 90-1(248)11

ROADWAY & ROADSIDE SAFETY

D1 GUARDRAIL & FENCING (I-90)

MINERAL, MISSOULA, & GRANITE COUNTIES

LENGTH 76.0 MILES



SHEET NO. 01

TITLE SHEET

PROJECT NAME	D1 GUARDRAIL & FENCING (I-90)
COUNTY	MINERAL, MISSOULA, & GRANITE
PROJECT ID	IM 90-1(248)11
UPN	10379000

DESIGNED BY	R. CATHEY
	01/30/2024
REVIEWED BY	B. NUNNALLEE
	04/20/2024
CHECKED BY	J. CERECK
	05/20/2024

MONTANA Department of Transportation

ROAD PLANS

9/10/2024 3:16 PM

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TABLE OF CONTENTS

ROAD PLANS	SHEET NO.
TITLE SHEET	1
TABLE OF CONTENTS	2
NOTES	2
SUMMARIES	3-4
FENCING	3
GUARDRAIL	4
PLAN SHEETS	5-63

NOTES

FENCE PLACEMENT

FENCE PLACEMENT MAY VARY FROM RIGHT OF WAY TO AVOID STEEP SLOPES, WETLANDS, SNOWDRIFT AREAS, AND THICK VEGETATION.

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING.

WETLANDS

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

SHEET NO.
02

TABLE OF CONTENTS
NOTES

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY		PROJECT NAME	
R. CATHEY	01/30/2024	D1 GUARDRAIL & FENCING (I-90)	
REVIEWED BY		COUNTY	MINERAL, MISSOULA, & GRANITE
B. NUNNALLEE	04/20/2024	PROJECT ID	IM 90-1(248)11
CHECKED BY		UPN	10379000
J. CERECK	05/20/2024		

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SUMMARY

FENCING

STATION		linear feet						each				REMARKS
		*FARM FENCE						FARM FENCE PANEL		DEADMAN	RESET FARM GATE	
		TYPE F3W	TYPE F4M	TYPE F5M	TYPE F5W	TYPE F3M-32 INCH WW	TYPE F3W-32 INCH WW	SINGLE	DOUBLE			
FROM	TO							FW	FW			
EASTBOUND												
RP 14.6	RP 16.3		9,082					16	9	3		RT
RP 17.9	RP 21.8	2,596		17,756				17	14	8		RT
RP 31.8	RP 33.8			5,414	4,252			8	12	4		RT
RP 34.0	RP 34.8				3,608			6	2	2		RT
RP 45.2	RP 47.5					5,480	6,879	14	22	5		RT
RP 48.5	RP 49.3						4,203	5	2	2		RT
RP 49.4	RP 53.6						22,086	45	16	8		RT
RP 55.4	RP 57.4						10,069	16	6	4		RT
RP 58.6	RP 61.8						16,687	30	9	6		RT
RP 66.4	RP 69.9						19,045	22	12	7	1	RT
RP 140.9	RP 141.5						3,365	8	9	1		RT
RP 144.6	RP 145.7						5,776	13	3	2		RT
WESTBOUND												
RP 15.0	RP 16.3	4,241		2,619				11	6	1		LT
RP 21.0	RP 21.9			3,653	784			8	3	2		LT
RP 31.6	RP 32.8				6,586			10	5	2		LT
RP 34.0	RP 37.3				4,133		13,267	20	14	6		LT
RP 40.7	RP 43.0				8,729		3,882	27	9	4		LT
RP 45.2	RP 46.2						5,025	6	6	2		LT
RP 50.3	RP 53.6					12,561	5,601	39	10	7		LT
RP 54.1	RP 57.4						17,362	25	13	7		LT
RP 58.6	RP 61.8						16,558	25	12	6		LT
RP 66.4	RP 69.9						18,673	28	14	7		LT
RP 118.8	RP 119.2			2,102				3	1	0		LT
RP 119.5	RP 121.0			7,061				12	1	1		LT
RP121.0	RP 124.5			19,318				29	2	1		LT
RP 138.7	RP 141.7						15,705	20	15	6		LT
TOTAL		6,837	9,082	57,923	28,092	18,041	184,183	463	227	104	1	

* MATCH EXISTING FENCE TYPE

SHEET NO. 03

SUMMARY

PROJECT NAME: D1 GUARDRAIL & FENCING (D-1)
COUNTY: MINERAL, MISSOULA, & GRANITE
PROJECT ID: IM 90-1(248)11
UPN: 10379000

DESIGNED BY: R. CATHEY 01/30/2024
REVIEWED BY: B. NUNNALLEE 04/20/2024
CHECKED BY: J. CERECK 05/20/2024
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MONTANA Department of Transportation
ROAD PLANS

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SUMMARY

GUARDRAIL

STATION		linear feet				each								REMARKS
		REMOVE & SALVAGE GUARDRAIL		MGS GUARDRAIL		MASH W-BEAM TERMINAL SECTION		MGS ONE-WAY DEPARTURE TERMINAL SECTION		GUARDRAIL STL/BR APPR - TY 1		GUARDRAIL END SECTION WIDENING		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
EB GUARDRAIL														
RP 28.0	RP 28.9		4,525.0		4,478.1		1						1	*TIES INTO EXISTING GUARDRAIL
RP 29.7	RP 29.8		612.5		550.0		1		1					MAINLINE TO 2 MILE EXIT OFF RAMP
RP 43.7 BE	RP 44.5		4,262.5		4,228.1				1		1			*MAINLINE
RP 59.5	RP 59.7		1,037.5		937.5		2							MAINLINE
RP 61.8	RP 62.4		3,200.0		3,100.0		2							TARKIO EXIT ON RAMP TO MAINLINE
RP 64.3	RP 64.5		987.5		925.0		1		1					MAINLINE
RP 64.6	RP 64.9		1,462.5		1,400.0		1		1					MAINLINE
RP 65.3	RP 65.4 BE	450.0		378.1		1				1		1		*MAINLINE
RP 65.5 BE	RP 65.6	687.5		653.1				1		1				*MAINLINE
RP 65.5 BE	RP 65.8		1,575.0		1,540.6				1		1			*MAINLINE
RP 66.1	RP 66.1 BE		325.0		253.1		1				1		1	*MAINLINE
RP 70.2	RP 70.2		387.5		325.0		1		1					CYR EXIT ON RAMP UNDER BRIDGE
RP 70.2 BE	RP 70.2		300.0		265.6				1		1			*MAINLINE
RP 70.2	RP 70.9		4,003.1		3,990.6				1					*CYR EXIT ON RAMP TO MAINLINE
RP 71.1	RP 71.9		4,562.5		4,500.0		1		1					MAINLINE TO REST AREA OFF RAMP
RP 72.1	RP 72.2		950.0		887.5		1		1					REST AREA ON RAMP TO MAINLINE
RP 72.3	RP 72.6		1,450.0		1,387.5		1		1					MAINLINE
RP 73.0	RP 73.8		4,325.0		4,262.5		1		1					MAINLINE
RP 148.7	RP 149.3		3,087.5		3,025.0		1		1					MAINLINE
WB GUARDRAIL														
RP 61.5	RP 61.7	1,050.0		950.0		2								MAINLINE TO TARKIO EXIT ON RAMP
RP 61.8	RP 61.9	350.0		300.0		1						1		MAINLINE
RP 64.4	RP 64.6		1,050.0		987.5		1		1					MAINLINE
RP 64.9	RP 65.5		3,328.1		3,315.6				1					*MAINLINE
RP 65.2	RP 65.5	1,540.6		1,528.1				1						*MAINLINE
RP 65.7	RP 65.8		765.6		715.6		1						1	*MAINLINE
RP 72.7	RP 72.9		775.0		712.5		1		1					MAINLINE
RP 141.7	RP 142.3	3,412.5		3,350.0		1		1						MAINLINE
RP 148.8	RP 149.6		4,025.0		3,962.5		1		1					MAINLINE
RP 149.1	RP 149.8	3,287.5		3,225.0		1		1						MAINLINE
SUBTOTAL		**10,778.1**	**46,996.8**	**10,384.3**	**45,749.8**	**6**	**19**	**4**	**17**	**2**	**4**	**2**	**3**	
TOTAL		**57,774.9**		**56,134.1**		**25**		**21**		**6**		**5**		

* NEEDS MGS TO METAL GUARDRAIL TRANSITION PIECE. SEE DETAIL DRAWING 606-20

SHEET NO. 04

SUMMARY

PROJECT NAME D1 GUARDRAIL & FENCING (I-90)
COUNTY MINERAL, MISSOULA, & GRANITE
PROJECT ID IM 90-1(248)11
UPN 10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA Department of Transportation

ROAD PLANS

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SHEET NO.
05

PLAN

PROJECT NAME: ***D1 GUARDRAIL & FENCING (I-90)***
COUNTY: ***MINERAL, MISSOULA, & GRANITE***
PROJECT ID: ***IM 90-1(248)11***
UPN: ***10379000***

DESIGNED BY		REVIEWED BY		CHECKED BY	
R. CATHEY	01/30/2024	B. NUNNALLEE	04/20/2024	J. CERECK	05/20/2024

MONTANA
Department of Transportation

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SHEET NO.
06

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

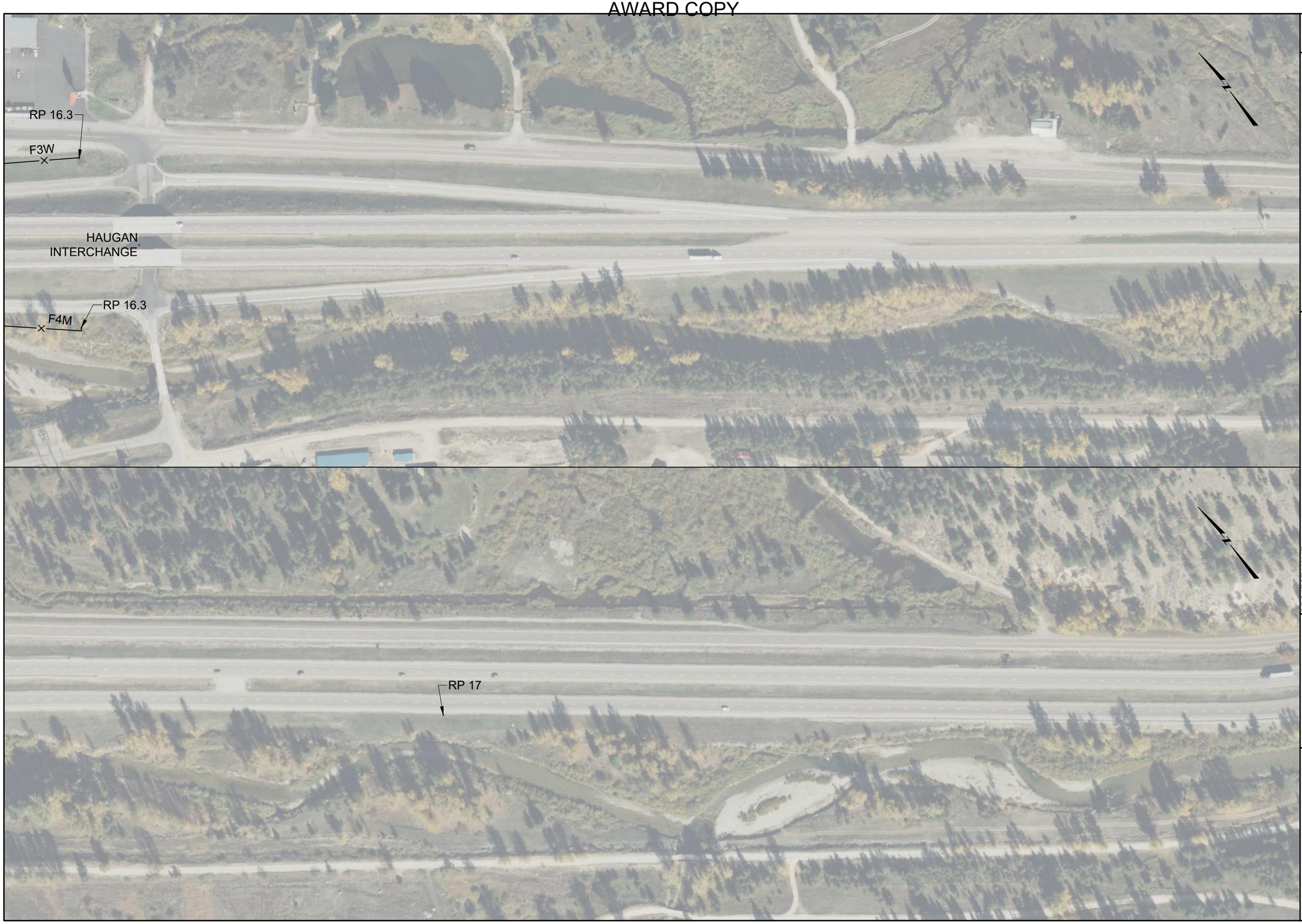
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MONTANA
Department of Transportation

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SHEET NO.
07

PLAN

PROJECT NAME	*D1 GUARDRAIL & FENCING (I-90)*
COUNTY	*MINERAL, MISSOULA, & GRANITE*
PROJECT ID	*IM 90-1(248)11*
UPN	*10379000*

DESIGNED BY		REVIEWED BY		CHECKED BY	
R. CATHEY	01/30/2024	B. NUNNALLEE	04/20/2024	J. CERECK	05/20/2024

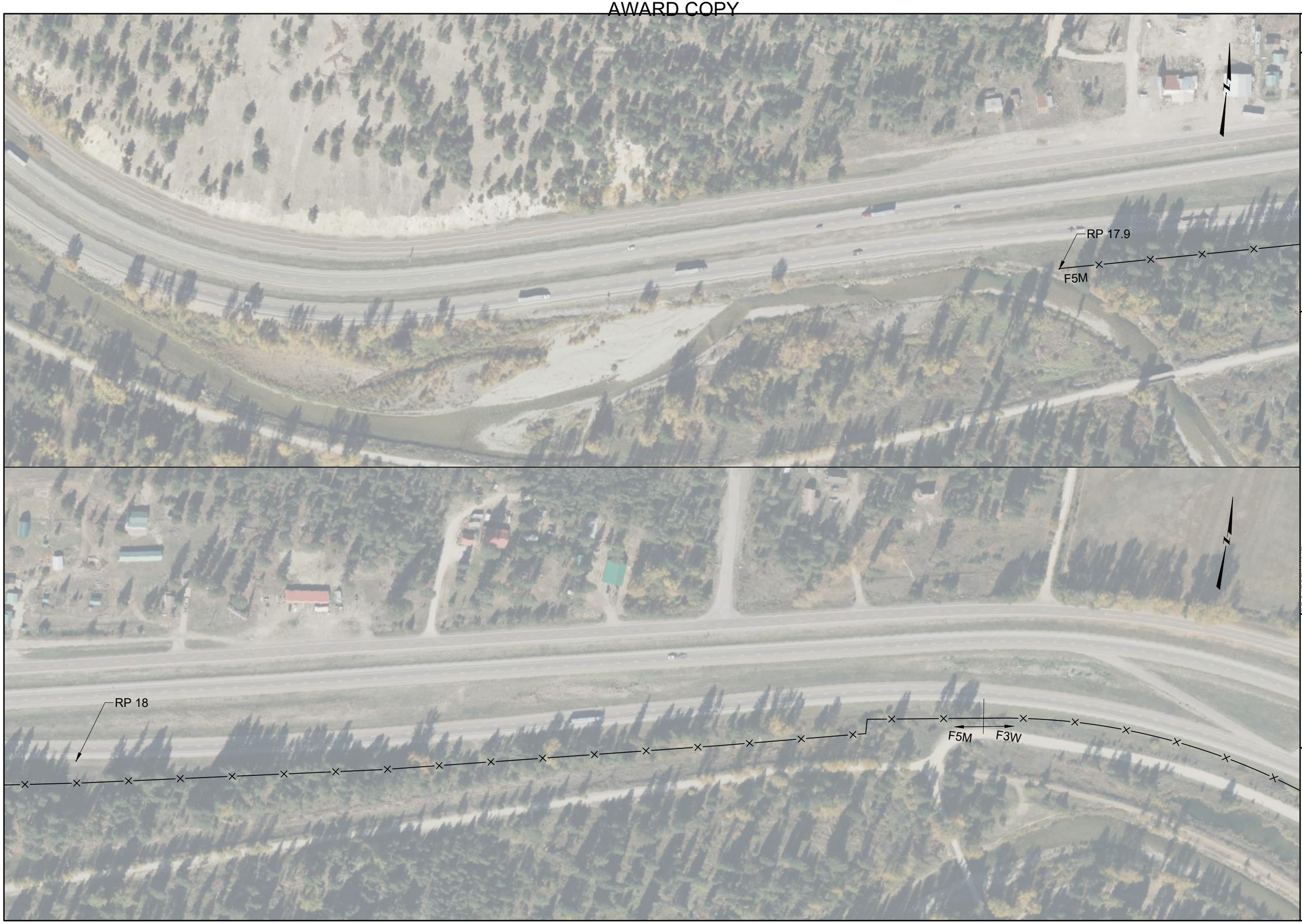
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SHEET NO.
08

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY		
R. CATHEY	01/30/2024	
REVIEWED BY		
B. NUNNALLEE	04/20/2024	
CHECKED BY		
J. CERECK	05/20/2024	

MONTANA
Department of Transportation

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INTERCHANGE

RP 19

F3W

F3W

F5M

F5M

SHEET NO.
09

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
1037900000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

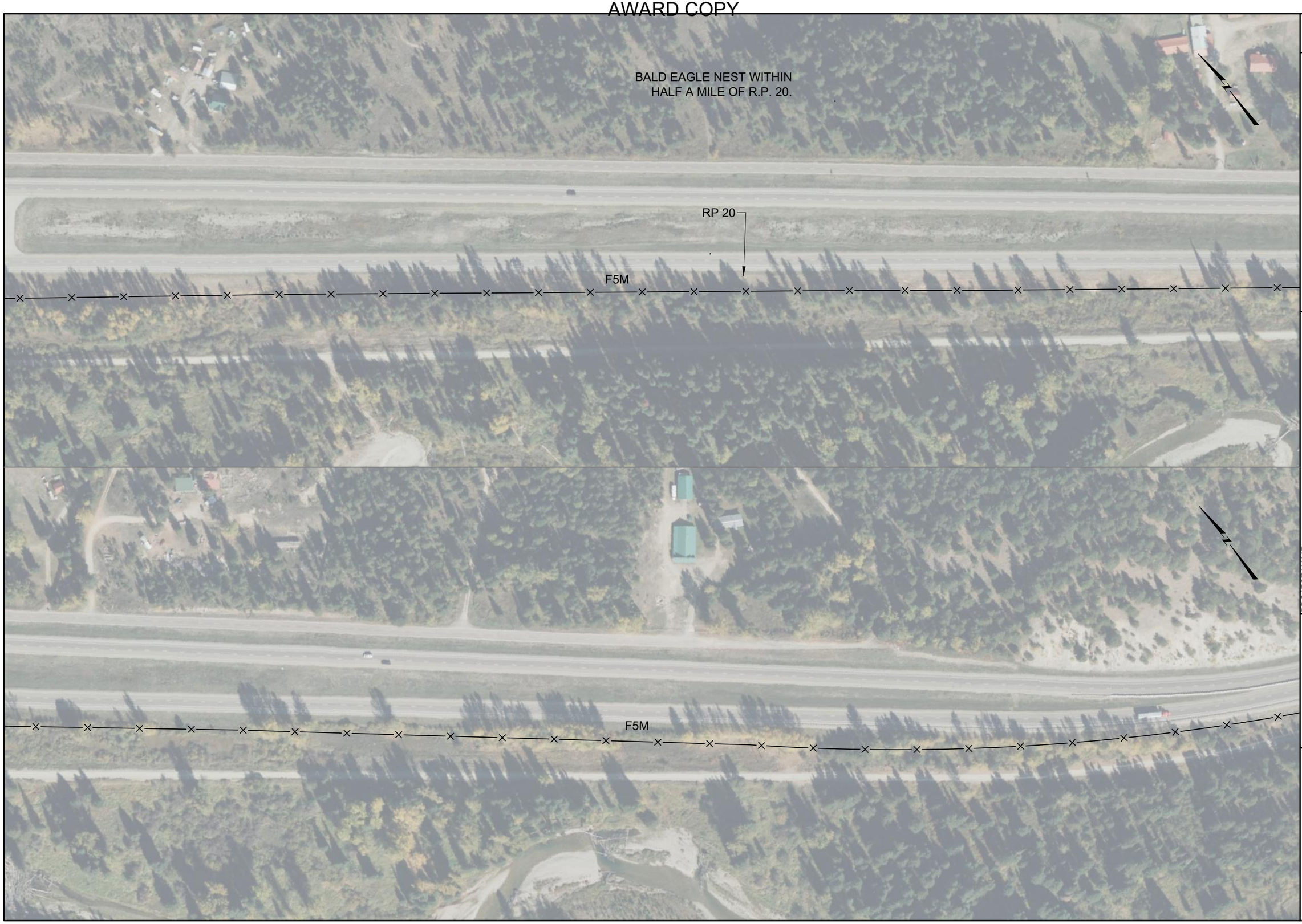
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Department of Transportation

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SHEET NO.
10

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY		REVIEWED BY		CHECKED BY	
R. CATHEY	01/30/2024	B. NUNNALLEE	04/20/2024	J. CERECK	05/20/2024

MONTANA
Department of Transportation

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SHEET NO.
11

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
1037900

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

VFG - ALIGNMENT - (2) - (4) - (2).DWG

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Department of Transportation

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SHEET NO.
12

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	
R. CATHEY	01/30/2024
REVIEWED BY	
B. NUNNALLEE	04/20/2024
CHECKED BY	
J. CERECK	05/20/2024

MONTANA
Department of Transportation

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SHEET NO.
13

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

ROAD PLANS

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SHEET NO.
14

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY		REVIEWED BY		CHECKED BY	
R. CATHEY	01/30/2024	B. NUNNALLEE	04/20/2024	J. CERECK	05/20/2024

MONTANA
Department of Transportation

ROAD PLANS

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RP 32.8

F5W

F5M

RP 33

F5W

SHEET NO.
15

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

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RP 33.8

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F5W

F5W

F5W

F5W

F5W

RP 34

F5W

F5W

F5W

F5W

F5W

F5W

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SHEET NO.
17

PLAN

PROJECT NAME: ***D1 GUARDRAIL & FENCING (I-90)***
COUNTY: ***MINERAL, MISSOULA, & GRANITE***
PROJECT ID: ***IM 90-1(248)11***
UPN: ***1037900000***

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

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SHEET NO.
18

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

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SHEET NO.
19

PLAN

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY	R. CATHEY	01/30/2024	
REVIEWED BY	B.NUNNALLEE	04/20/2024	
CHECKED BY	J. CERECK	05/20/2024	

PROJECT NAME: D1 GUARDRAIL & FENCING (I-90)
COUNTY: MINERAL, MISSOULA, & GRANITE
PROJECT ID: IM 90-1(248)11
UPN: 1037900

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MONTANA Department of Transportation	DESIGNED BY: R. CATHEY 01/30/2024	PROJECT NAME: D1 GUARDRAIL & FENCING (I-90)	PLAN
	REVIEWED BY: B. NUNNALLEE 04/20/2024	COUNTY: MINERAL, MISSOULA, & GRANITE	
ROAD PLANS	CHECKED BY: J. CERECK 05/20/2024	PROJECT ID: IM 90-1(248)11	SHEET NO. 20
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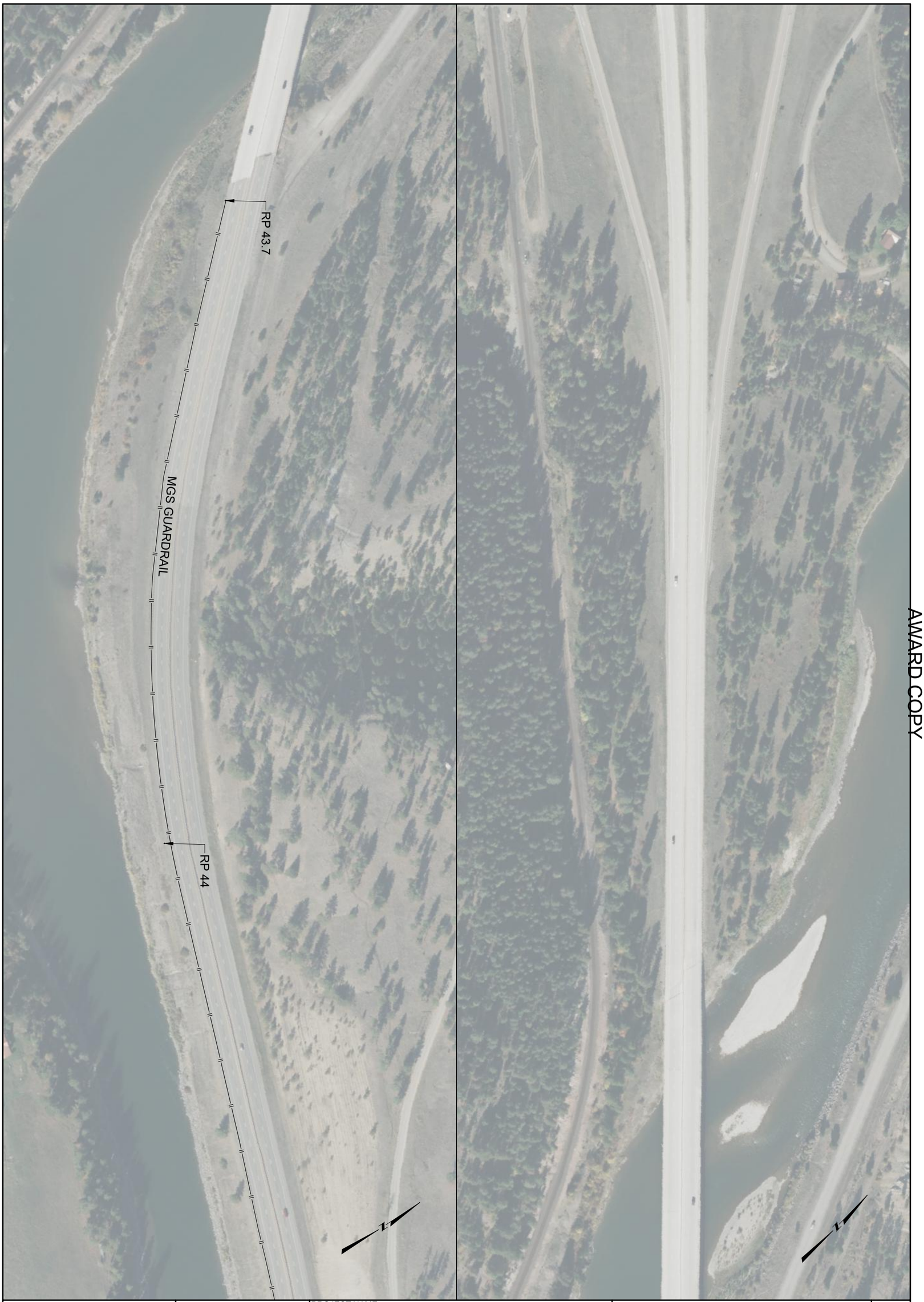
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MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME	PLAN	SHEET NO.
	R. CATHEY	01/30/2024	D1 GUARDRAIL & FENCING (I-90)		
	REVIEWED BY		COUNTY		
	B. NUNNALLEE	04/20/2024	MINERAL, MISSOULA, & GRANITE		
ROAD PLANS	CHECKED BY		PROJECT ID		
	J. CERECK	05/20/2024	IM 90-1(248)11		
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MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME		SHEET NO.
	R. CATHEY	01/30/2024	D1 GUARDRAIL & FENCING (I-90)		
	REVIEWED BY		COUNTY		
	B. NUNNALLEE	04/20/2024	MINERAL, MISSOULA, & GRANITE	PLAN	22
ROAD PLANS	CHECKED BY		PROJECT ID		
	J. CERECK	05/20/2024	IM 90-1(248)11		
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MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME	PLAN	SHEET NO.
	R. CATHEY	01/30/2024	D1 GUARDRAIL & FENCING (I-90)		23
	REVIEWED BY		COUNTY		
	B. NUNNALLEE	04/20/2024	MINERAL, MISSOULA, & GRANITE		
ROAD PLANS	CHECKED BY		PROJECT ID		
	J. CERECK	05/20/2024	IM 90-1(248)11		
8/12/2024 9:10 AM	VFG - ALIGNMENT - (2) - (4) - (6).DWG		UPN 10379000		

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SHEET NO.
24

PLAN

PROJECT NAME: ***D1 GUARDRAIL & FENCING (I-90)***
COUNTY: ***MINERAL, MISSOULA, & GRANITE***
PROJECT ID: ***IM 90-1(248)11***
UPN: ***10379000***

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 9:10 AM
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F3W-32 INCH WW

F3W-32 INCH WW

RP 46.2

F3W-32 INCH WW

RP 46

F3W-32 INCH WW

SHEET NO.
25

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

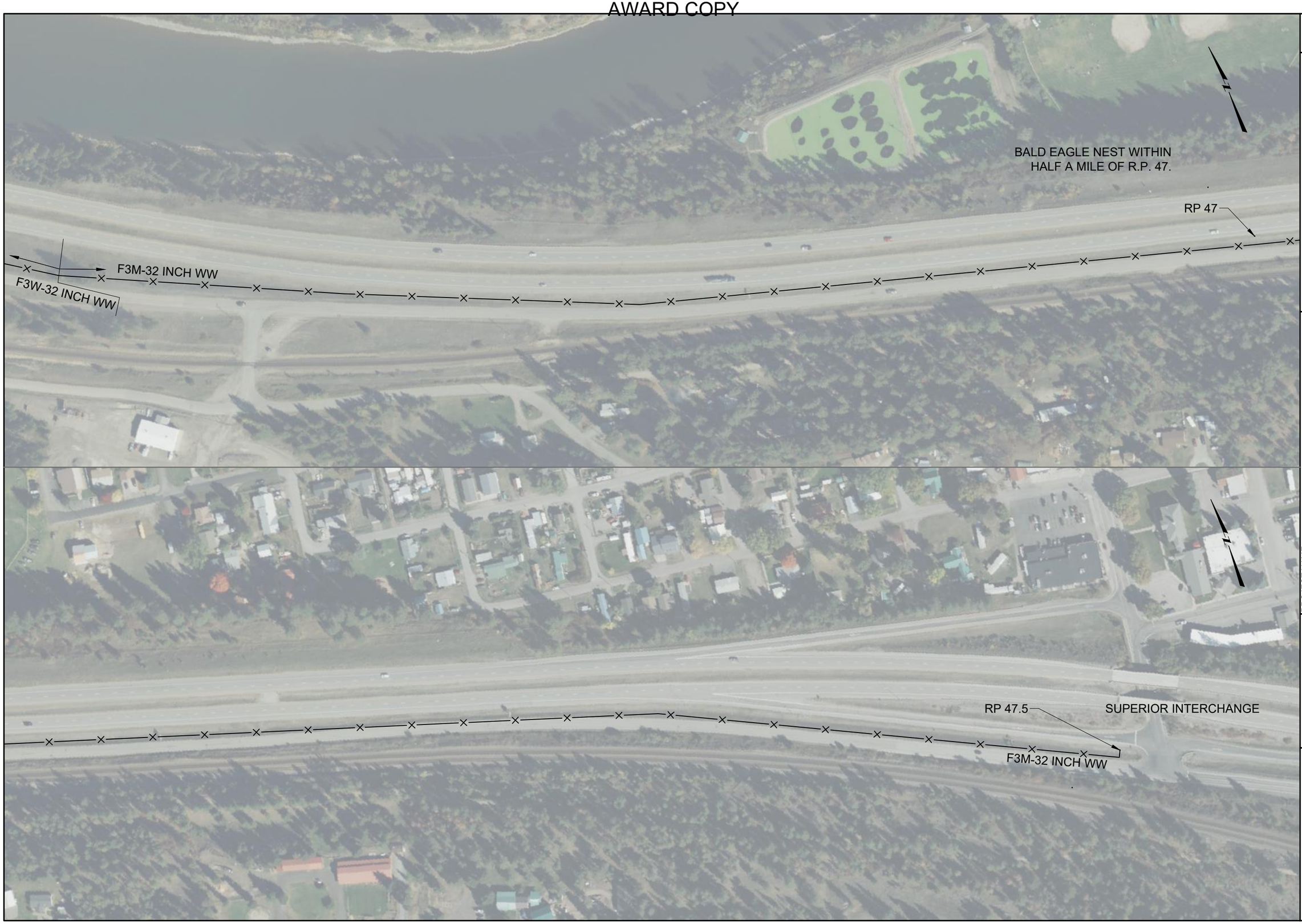
VFG - ALIGNMENT - (2) - (4) - (6).DWG

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 9:10 AM

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SHEET NO.
26

PLAN

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY	R. CATHEY	01/30/2024
REVIEWED BY	B. NUNNALLEE	04/20/2024
CHECKED BY	J. CERECK	05/20/2024

PROJECT NAME: D1 GUARDRAIL & FENCING (I-90)
COUNTY: MINERAL, MISSOULA, & GRANITE
PROJECT ID: IM 90-1(248)11
UPN: 10379000

8/12/2024 9:10 AM
VFG - ALIGNMENT - (2) - (4) - (6).DWG

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SHEET NO.
27

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
1037900000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

VFG - ALIGNMENT - (2) - (4) - (6).DWG

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Department of Transportation

ROAD PLANS

8/12/2024 9:10 AM



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MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME	PLAN	SHEET NO.
	R. CATHEY	01/30/2024	D1 GUARDRAIL & FENCING (I-90)		28
	REVIEWED BY		COUNTY		
	B. NUNNALLEE	04/20/2024	MINERAL, MISSOULA, & GRANITE		
ROAD PLANS	CHECKED BY		PROJECT ID		
	J. CERECK	05/20/2024	IM 90-1(248)11		
8/12/2024 10:07 AM	VFG - ALIGNMENT - (2) - (4) - (7).DWG		UPN 10379000		

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SHEET NO.
29

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
1037900000

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

MONTANA
Department of Transportation

ROAD PLANS

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SHEET NO.
30

PLAN

PROJECT NAME: ***D1 GUARDRAIL & FENCING (I-90)***
COUNTY: ***MINERAL, MISSOULA, & GRANITE***
PROJECT ID: ***IM 90-1(248)11***
UPN: ***1037900***

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

VFG - ALIGNMENT - (2) - (4) - (7).DWG

MONTANA
Department of Transportation

ROAD PLANS

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SHEET NO.
31

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

VFG - ALIGNMENT - (2) - (4) - (7).DWG

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 10:07 AM

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F3W-32 INCH WW

RP 53.6

F3W-32 INCH WW

BALD EAGLE NEST WITHIN
HALF A MILE OF R.P. 54.

RP 54.1

F3W-32 INCH WW

RP 54

SHEET NO.
32

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

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ROAD PLANS

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SHEET NO.
33

PLAN

PROJECT NAME D1 GUARDRAIL & FENCING (I-90)
COUNTY MINERAL, MISSOULA, & GRANITE
PROJECT ID IM 90-1(248)11
UPN 10379000

DESIGNED BY		01/30/2024
RC	REVIEWED BY	####
####	CHECKED BY	####
####		####

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 10:15 AM VFG - ALIGNMENT - (2) - (4) - (8).DWG

AWARD COPY

F3W-32 INCH WW

RP 56

F3W-32 INCH WW

BALD EAGLE NEST WITHIN
HALF A MILE OF R.P. 56.5.

F3W-32 INCH WW

F3W-32 INCH WW

SHEET NO.
34

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

VFG - ALIGNMENT - (2) - (4) - (8).DWG

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ROAD PLANS

8/12/2024 10:15 AM



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MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME	PLAN	SHEET NO.
	R. CATHEY	01/30/2024	D1 GUARDRAIL & FENCING (I-90)		35
	REVIEWED BY		COUNTY		
	B. NUNNALLEE	04/20/2024	MINERAL, MISSOULA, & GRANITE		
ROAD PLANS	CHECKED BY		PROJECT ID		
	J. CERECK	05/20/2024	IM 90-1(248)11		
8/12/2024 10:15 AM	VFG - ALIGNMENT - (2) - (4) - (8).DWG		UPN 10379000		



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MONTANA Department of Transportation	DESIGNED BY R. CATHEY 01/30/2024	PROJECT NAME D1 GUARDRAIL & FENCING (I-90)	PLAN	SHEET NO. 36
	REVIEWED BY B. NUNNALLEE 04/20/2024	COUNTY MINERAL, MISSOULA, & GRANITE		
ROAD PLANS	CHECKED BY J. CERECK 05/20/2024	PROJECT ID IM 90-1(248)11		
8/12/2024 10:15 AM	VFG - ALIGNMENT - (2) - (4) - (8).DWG	UPN 10379000		

F3W-32 INCH WW

F3W-32 INCH WW

RP 59.5

F3W-32 INCH WW

RP 59.7

MGS GUARDRAIL

RP 60

F3W-32 INCH WW

SHEET NO.
37

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
1037900000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

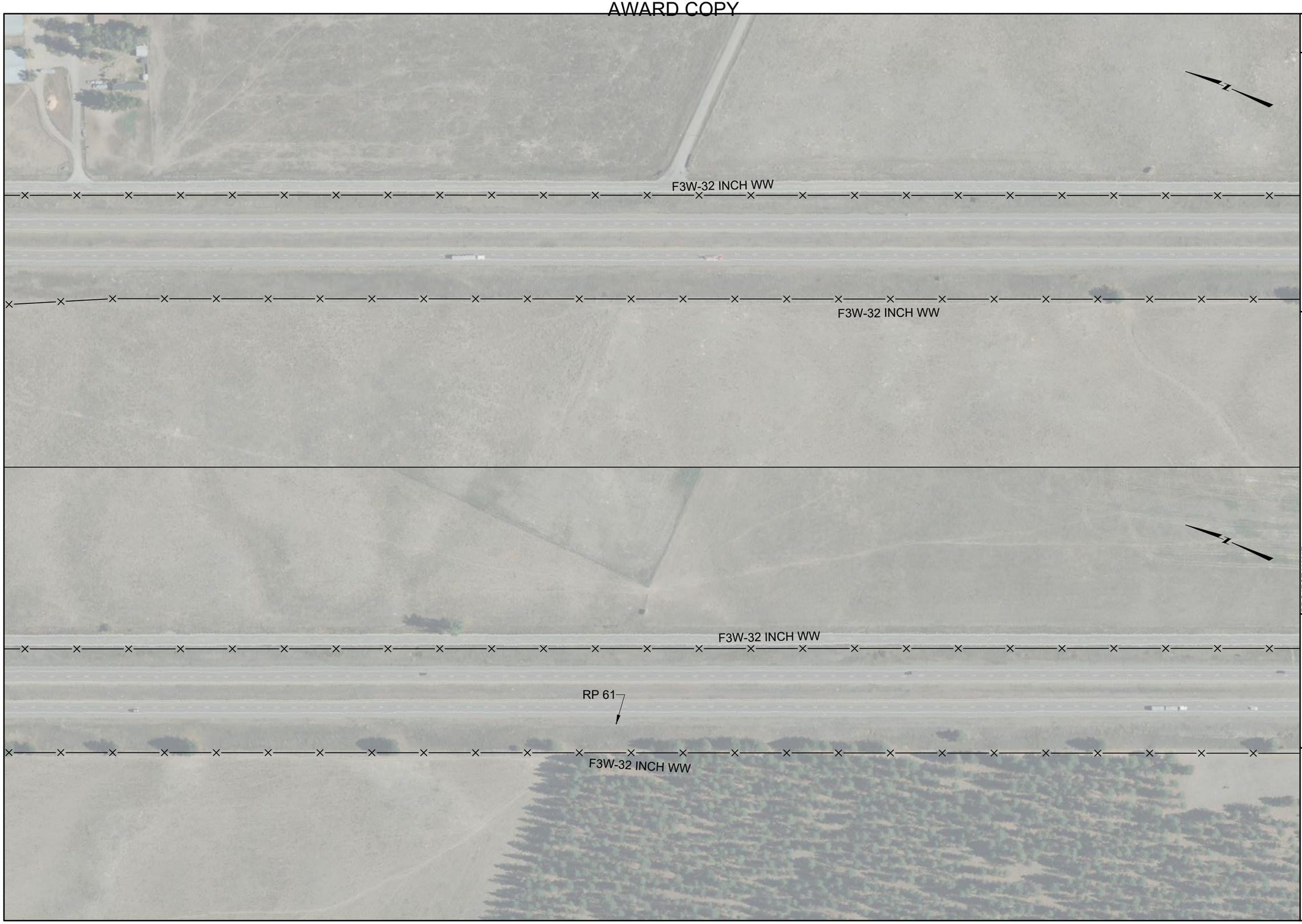
VFG - ALIGNMENT - (2) - (4) - (8).DWG

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Department of Transportation

ROAD PLANS

8/12/2024 10:15 AM

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SHEET NO.
38

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
1037900000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

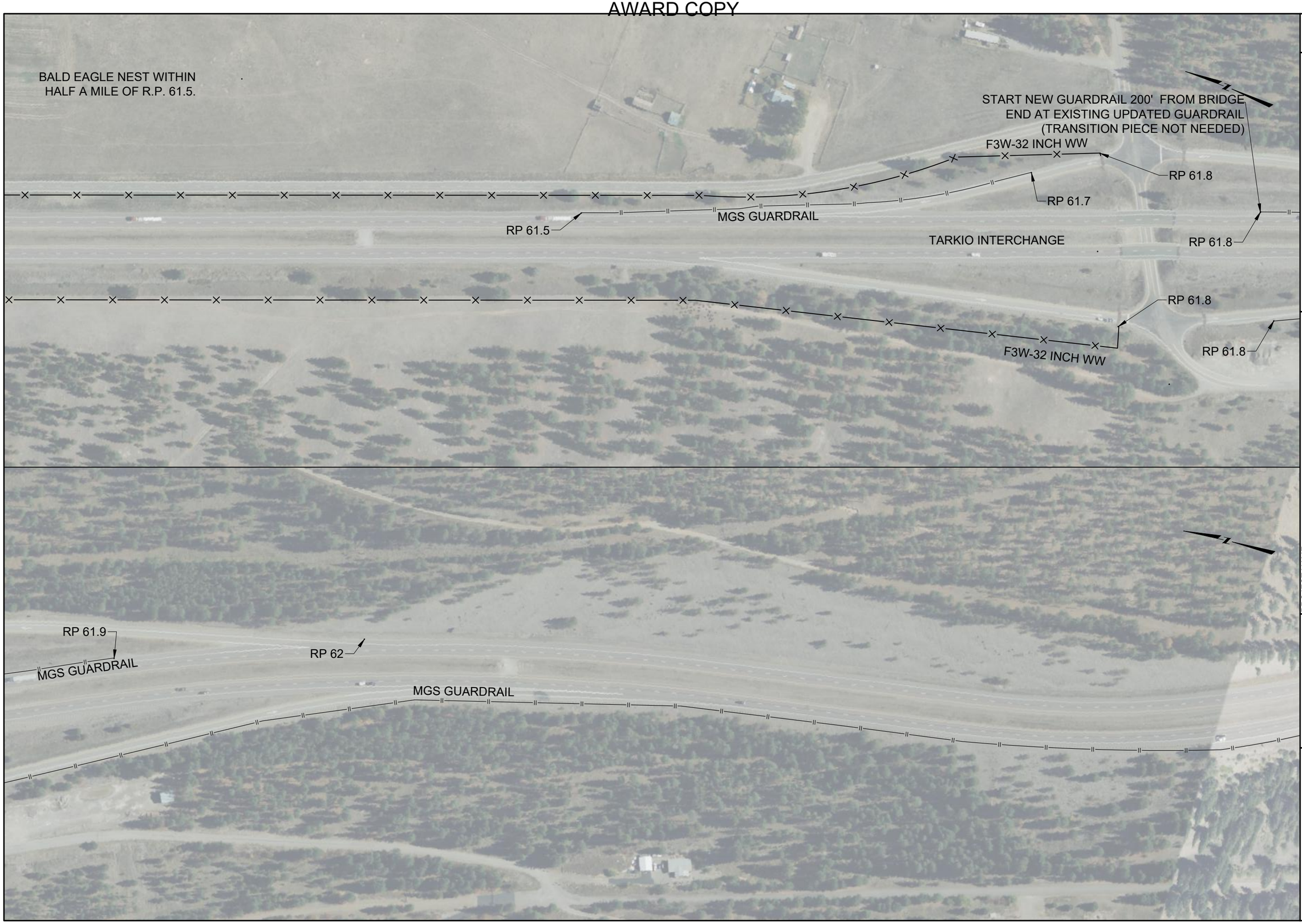
VFG - ALIGNMENT - (2) - (4) - (9).DWG

MONTANA
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ROAD PLANS

8/12/2024 3:00 PM

AWARD COPY



SHEET NO.
39

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
1037900000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

ROAD PLANS

VFG - ALIGNMENT - (2) - (4) - (9).DWG

8/12/2024 3:00 PM



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MONTANA Department of Transportation	DESIGNED BY R. CATHEY 01/30/2024	PROJECT NAME D1 GUARDRAIL & FENCING (I-90)	PLAN
	REVIEWED BY B. NUNNALLEE 04/20/2024	COUNTY MINERAL, MISSOULA, & GRANITE	
ROAD PLANS	CHECKED BY J. CERECK 05/20/2024	PROJECT ID IM 90-1(248)11	
8/12/2024 3:00 PM	VFG - ALIGNMENT - (2) - (4) - (9).DWG	UPN 10379000	SHEET NO. 40

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SHEET NO.
41

PLAN

PROJECT NAME: ***D1 GUARDRAIL & FENCING (I-90)***
COUNTY: ***MINERAL, MISSOULA, & GRANITE***
PROJECT ID: ***IM 90-1(248)11***
UPN: ***10379000***

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

VFG - ALIGNMENT - (2) - (4) - (9).DWG

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 3:00 PM

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SHEET NO. 42

PLAN

PROJECT NAME: *D1 GUARDRAIL & FENCING (I-90)*
COUNTY: *MINERAL, MISSOULA, & GRANITE*
PROJECT ID: *IM 90-1(248)11*
UPN: *10379000*

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

VFG - ALIGNMENT - (2) - (4) - (9).DWG

MONTANA
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ROAD PLANS

8/12/2024 3:00 PM

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SHEET NO.
43

PLAN

PROJECT NAME: ***D1 GUARDRAIL & FENCING (I-90)***
COUNTY: ***MINERAL, MISSOULA, & GRANITE***
PROJECT ID: ***IM 90-1(248)11***
UPN: ***10379000***

DESIGNED BY		REVIEWED BY		CHECKED BY	
R. CATHEY	01/30/2024	B. NUNNALLEE	04/20/2024	J. CERECK	05/20/2024

VFG - ALIGNMENT - (2) - (4) - (10).DWG

MONTANA
Department of Transportation

ROAD PLANS

8/13/2024 8:54 AM

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SHEET NO.
44

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

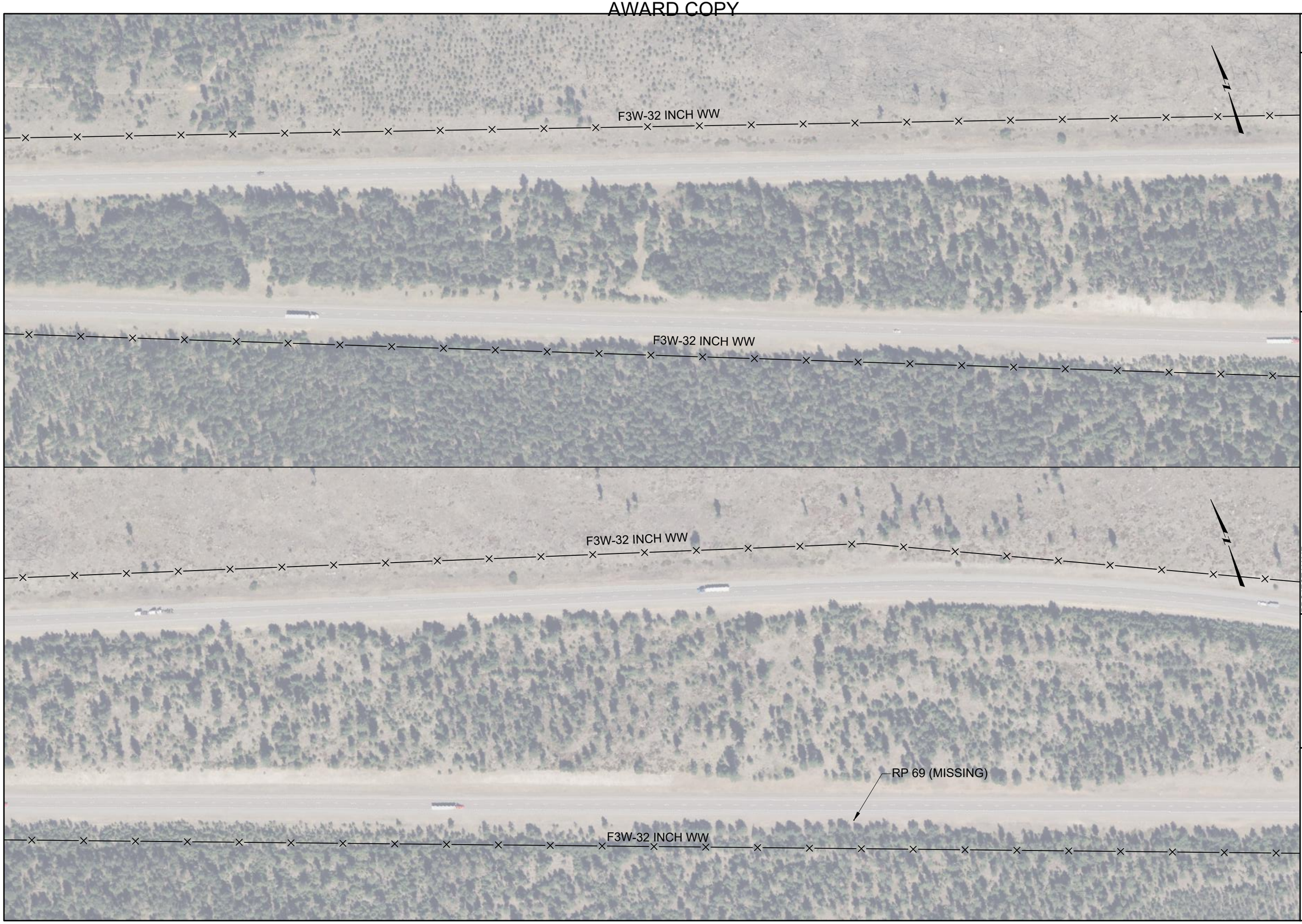
VFG - ALIGNMENT - (2) - (4) - (10).DWG

MONTANA
Department of Transportation

ROAD PLANS

8/13/2024 8:54 AM

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SHEET NO.
45

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY		REVIEWED BY		CHECKED BY	
R. CATHEY	01/30/2024	B. NUNNALLEE	04/20/2024	J. CERECK	05/20/2024

MONTANA
Department of Transportation

ROAD PLANS

8/13/2024 8:54 AM

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F3W-32 INCH WW

F3W-32 INCH WW

F3W-32 INCH WW

RP 69.9

F3W-32 INCH WW

RP 70

RP 70.2

CYR INTERCHANGE

MGS GUARDRAIL

RP 70.2

MGS GUARDRAIL

NOT THIS CONTRACT

START NEW GUARDRAIL 184' +\- FROM EXISTING GUARDRAIL WESTEND. TRANSITION WILL OVERLAP. SEE DETAIL DWG. 606-20 AND SPECIAL PROVISIONS.

SHEET NO.
46

PLAN

PROJECT NAME: **D1 GUARDRAIL & FENCING (I-90)**
COUNTY: **MINERAL, MISSOULA, & GRANITE**
PROJECT ID: **IM 90-1(248)11**
UPN: **10379000**

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

VFG - ALIGNMENT - (2) - (4) - (10).DWG

MONTANA Department of Transportation

ROAD PLANS

8/13/2024 8:54 AM

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SHEET NO.
47

PLAN

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY	R. CATHEY 01/30/2024
REVIEWED BY	B. NUNNALLEE 04/20/2024
CHECKED BY	J. CERECK 05/20/2024
PROJECT NAME	D1 GUARDRAIL & FENCING (I-90)
COUNTY	MINERAL, MISSOULA, & GRANITE
PROJECT ID	IM 90-1(248)11
UPN	10379000

8/13/2024 8:54 AM VFG - ALIGNMENT - (2) - (4) - (10).DWG

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SHEET NO.
48

PLAN

PROJECT NAME: D1 GUARDRAIL & FENCING (I-90)
COUNTY: MINERAL, MISSOULA, & GRANITE
PROJECT ID: IM 90-1(248)11
UPN: 10379000

DESIGNED BY	R. CATHEY	01/30/2024
REVIEWED BY	B. NUNNALLEE	04/20/2024
CHECKED BY	J. CERECK	05/20/2024

MONTANA
Department of Transportation

ROAD PLANS

8/13/2024 9:26 AM

VFG - ALIGNMENT - (2) - (4) - (11).DWG

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SHEET NO.
49

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

ROAD PLANS

8/13/2024 9:26 AM

VFG - ALIGNMENT - (2) - (4) - (11).DWG

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SHEET NO.
50

PLAN

PROJECT NAME	*D1 GUARDRAIL & FENCING (I-90)*
COUNTY	*MINERAL, MISSOULA, & GRANITE*
PROJECT ID	*IM 90-1(248)11*
UPN	*10379000*

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

ROAD PLANS

8/13/2024 9:26 AM VFG - ALIGNMENT - (2) - (4) - (11).DWG

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SHEET NO.
51

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/24
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

ROAD PLANS

8/13/2024 2:17 PM VFG - ALIGNMENT - (2) (1) - (5) - (16) (1).DWG

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SHEET NO. 52

PLAN

PROJECT NAME: *D1 GUARDRAIL & FENCING (I-90)*
COUNTY: *MINERAL, MISSOULA, & GRANITE*
PROJECT ID: *IM 90-1(248)11*
UPN: *1037900000*

DESIGNED BY	RC	01/30/24
REVIEWED BY	B. NUNNALLEE	04/20/2024
CHECKED BY	J. CERECK	05/20/2024

MONTANA
Department of Transportation

ROAD PLANS

8/13/2024 2:17 PM VFG - ALIGNMENT - (2) (1) - (5) - (16) (1).DWG

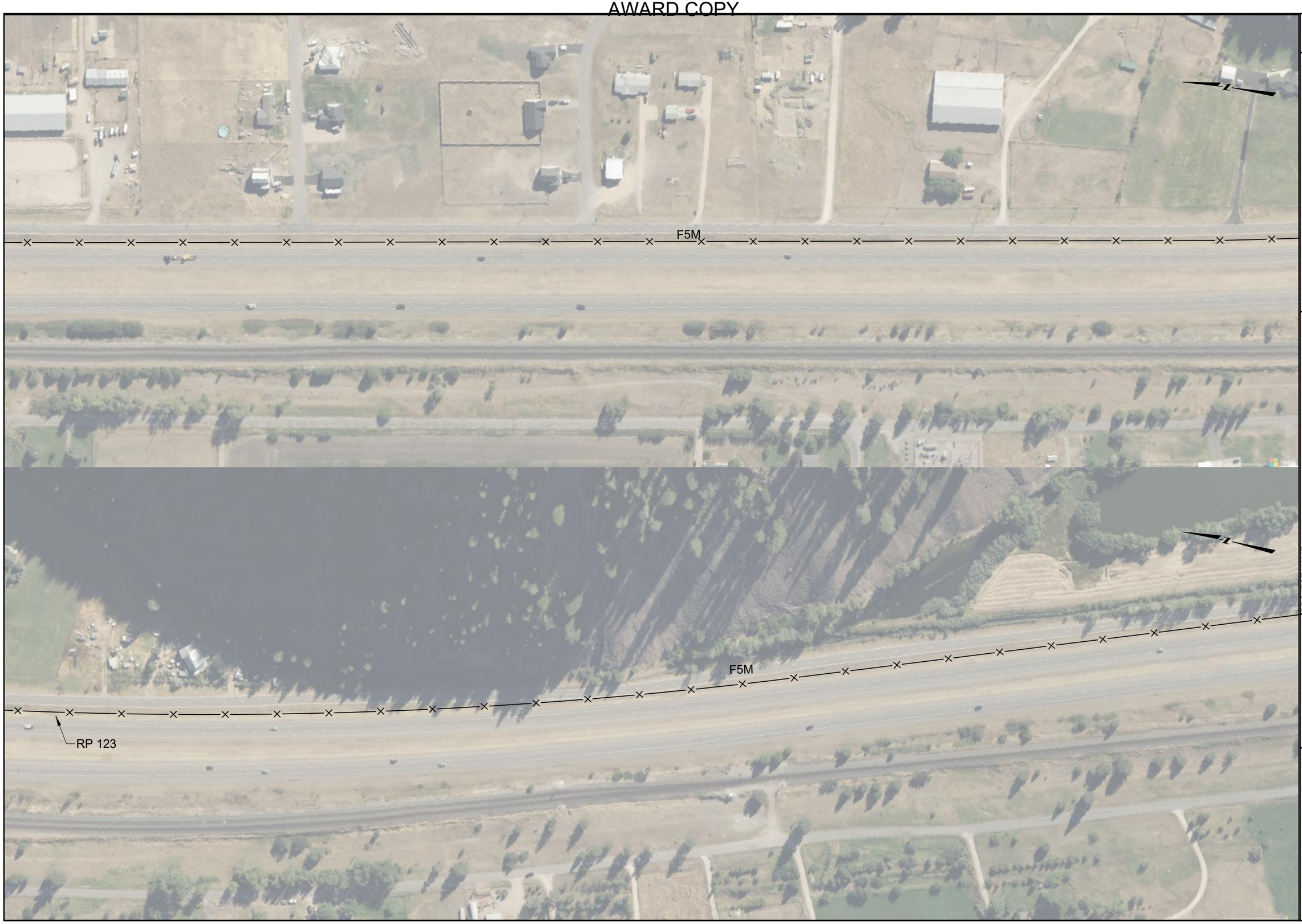
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MONTANA Department of Transportation	DESIGNED BY R. CATHEY 01/30/24	PROJECT NAME D1 GUARDRAIL & FENCING (I-90)	PLAN	SHEET NO. 53
	REVIEWED BY B. NUNNALLEE 04/20/2024	COUNTY MINERAL, MISSOULA, & GRANITE		
ROAD PLANS	CHECKED BY J. CERECK 05/20/2024	PROJECT ID IM 90-1(248)11		
8/13/2024 2:17 PM	VFG - ALIGNMENT - (2) (1) - (5) - (16) (1).DWG	UPN 10379000		

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SHEET NO.
54

PLAN

PROJECT NAME: ***D1 GUARDRAIL & FENCING (I-90)***
COUNTY: ***MINERAL, MISSOULA, & GRANITE***
PROJECT ID: ***IM 90-1(248)11***
UPN: ***10379000***

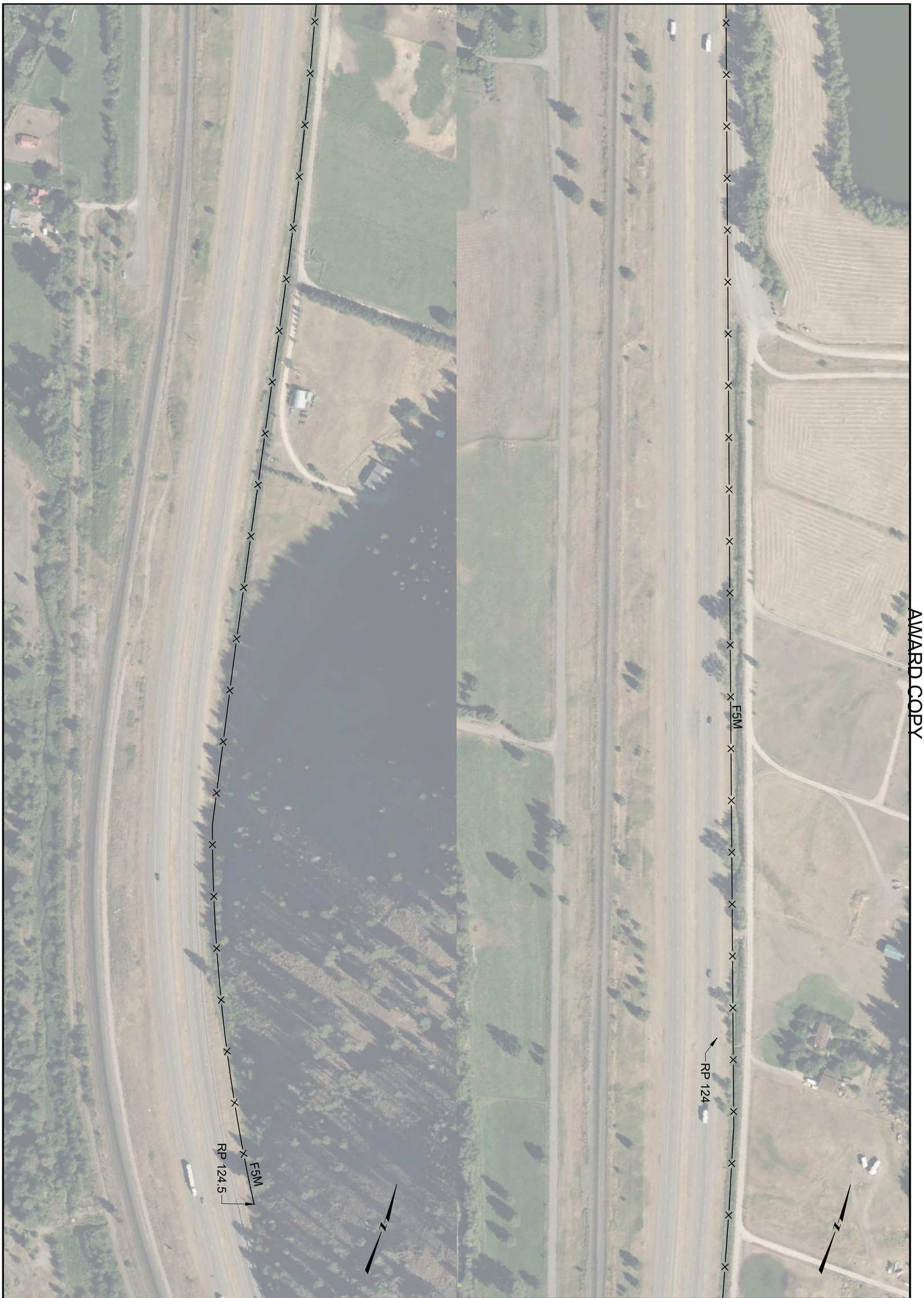
DESIGNED BY		REVIEWED BY		CHECKED BY	
R. CATHEY	01/30/24	B. NUNNALLEE	04/20/2024	J. CERECK	05/20/2024

MONTANA
Department of Transportation

ROAD PLANS

8/13/2024 2:17 PM

VFG - ALIGNMENT - (2) (1) - (5) - (16) (1).DWG



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MONTANA Department of Transportation	DESIGNED BY: R. CATHEY 01/30/24	PROJECT NAME: D1 GUARDRAIL & FENCING (I-90)	PLAN
ROAD PLANS	REVIEWED BY: B. NUNNALLEE 04/20/2024	COUNTY: MINERAL, MISSOULA, & GRANITE	SHEET NO. 55
8/13/2024 2:17 PM VFG - ALIGNMENT - (2) (1) - (5) - (16) (1).DWG	CHECKED BY: J. CERECK 05/20/2024	PROJECT ID: IM 90-1(248)11	
		UPN: 10379000	

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F3W-32 INCH WW

RP 138.7

CONNECT FENCE TOGETHER AND
REMOVE FENCE ATTACHED TO GUARDRAIL

RP 139

BALD EAGLE NEST WITHIN
HALF A MILE OF R.P. 139.

F3W-32 INCH WW

SHEET NO.
56

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

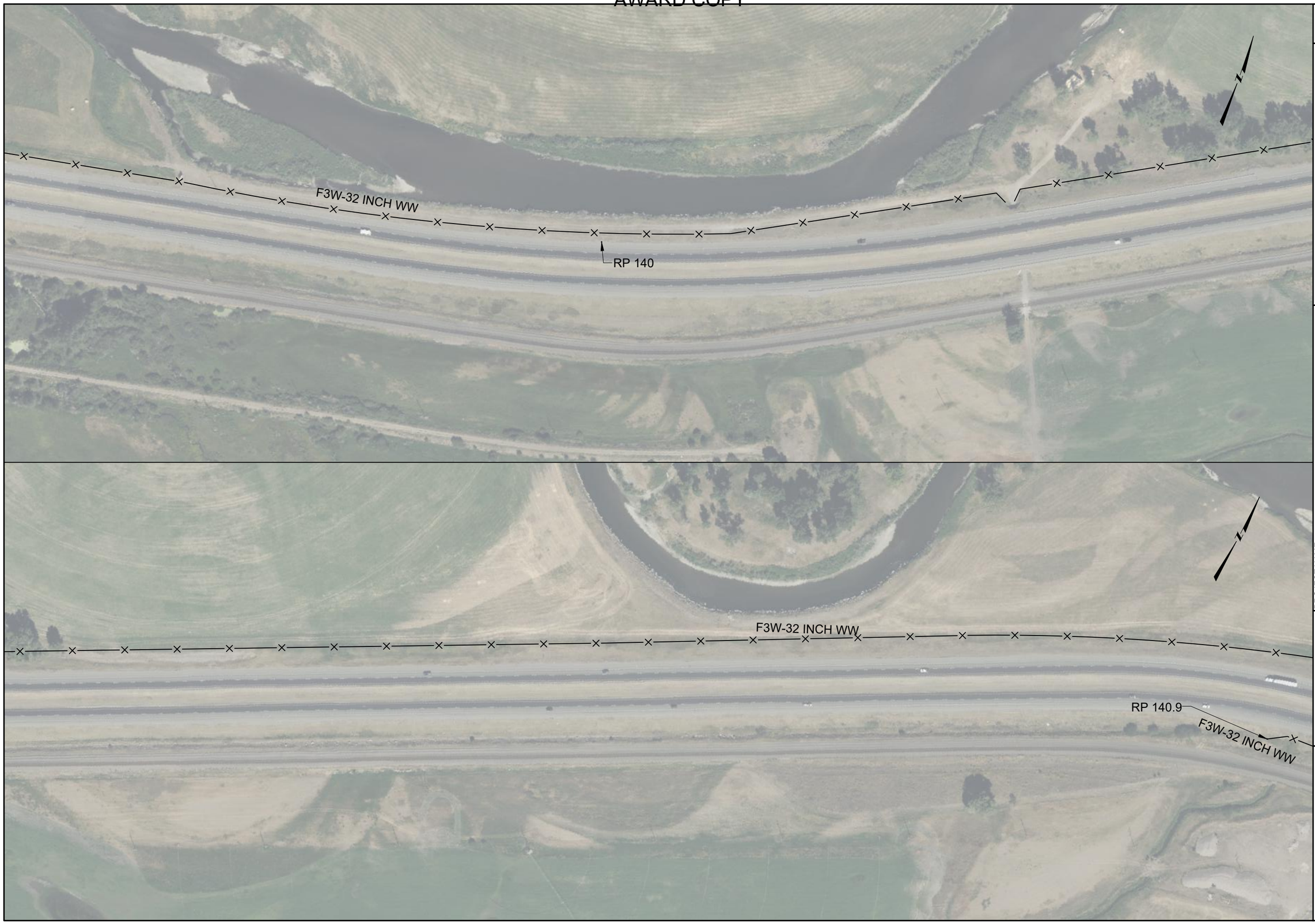
MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 11:03 AM

VFG - ALIGNMENT - (3) - (3) - (13).DWG

AWARD COPY



SHEET NO.
57

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 11:03 AM

VFG - ALIGNMENT - (3) - (3) - (13).DWG

AWARD COPY

F3W-32 INCH WW

RP 141

F3W-32 INCH WW

FENCE BORDERS RAILROAD
RW OR EASEMENT

F3W-32 INCH WW

F3W-32 INCH WW

RP 141.5

F3W-32 INCH WW

RP 141.7

MGS GUARDRAIL

RP 142

FENCE BORDERS RAILROAD
RW OR EASEMENT

SHEET NO.
58

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 11:03 AM

VFG - ALIGNMENT - (3) - (3) - (13).DWG

AWARD COPY



SHEET NO.
59

PLAN

D1 GUARDRAIL & FENCING (I-90)
MINERAL, MISSOULA, & GRANITE
IM 90-1(248)11
10379000

DESIGNED BY		PROJECT NAME
R. CATHEY	01/30/2024	
REVIEWED BY		COUNTY
B. NUNNALLEE	04/20/2024	
CHECKED BY		PROJECT ID
J. CERECK	05/20/2024	UPN

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 11:16 AM
VFG - ALIGNMENT - (3) - (3) - (14).DWG

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SHEET NO. 60

PLAN

PROJECT NAME: *D1 GUARDRAIL & FENCING (I-90)*
COUNTY: *MINERAL, MISSOULA, & GRANITE*
PROJECT ID: *IM 90-1(248)11*
UPN: *10379000*

DESIGNED BY	DATE
R. CATHEY	01/30/2024
REVIEWED BY	DATE
B. NUNNALLEE	04/20/2024
CHECKED BY	DATE
J. CERECK	05/20/2024

VFG - ALIGNMENT - (3) - (3) - (14).DWG

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 11:16 AM

RP 145.7

F3W-32 INCH WW

FENCE BORDERS RAILROAD
RW OR EASEMENT

RP 146

SHEET NO.
61

PLAN

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY	
R. CATHEY	01/30/2024
REVIEWED BY	
B. NUNNALLEE	04/20/2024
CHECKED BY	
J. CERECK	05/20/2024

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
1037900000

8/12/2024 11:16 AM
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AWARD COPY



SHEET NO.
62

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY		
R. CATHEY	01/30/2024	
REVIEWED BY		
B. NUNNALLEE	04/20/2024	
CHECKED BY		
J CERECK	05/20/2024	

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 11:16 AM
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SHEET NO.
63

PLAN

PROJECT NAME
D1 GUARDRAIL & FENCING (I-90)

COUNTY
MINERAL, MISSOULA, & GRANITE

PROJECT ID
IM 90-1(248)11

UPN
10379000

DESIGNED BY	01/30/2024
R. CATHEY	
REVIEWED BY	04/20/2024
B. NUNNALLEE	
CHECKED BY	05/20/2024
J. CERECK	

MONTANA
Department of Transportation

ROAD PLANS

8/12/2024 11:16 AM

VFG - ALIGNMENT - (3) - (3) - (15).DWG