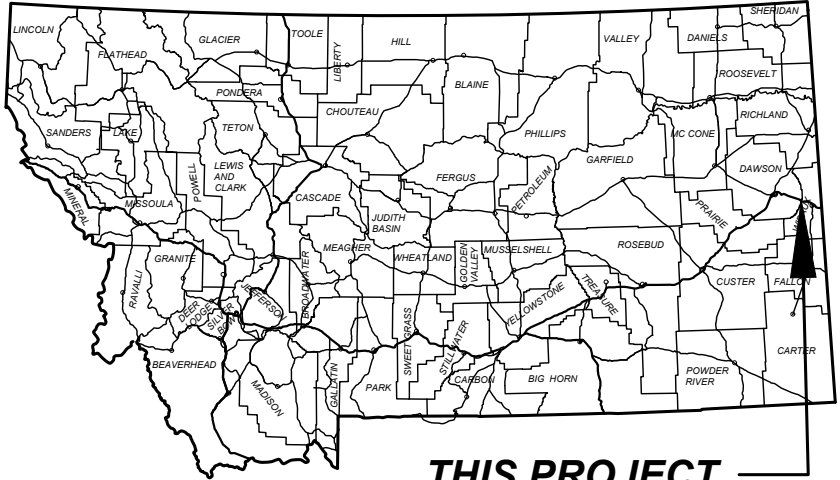


MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT IM 94-6(72)231
PL. MIX OVERLAY, CRACK SEAL & SEAL & COVER
WIBAUX-EAST & WEST (WB)
WIBAUX COUNTY

LENGTH 6.2 MILES



THIS PROJECT

PROJECT DESIGN DATA

RP 238.000 TO RP 241.616

PRESENT	2026	A.D.T. = 3,930
LETTING	2026	A.D.T. = 3,930
DESIGN	2046	A.D.T. = 4,800
		D.H.V. = 470
		TRUCKS = 21.9%
		V. = 70 MPH
		18 KIP ESAL'S = 503 DAILY
		ANNUAL GROWTH RATE = 1.0%

PROJECT DESIGN DATA

RP 241.616 TO RP 244.300

PRESENT	2026	A.D.T. = 3,230
LETTING	2026	A.D.T. = 3,230
DESIGN	2046	A.D.T. = 3,940
		D.H.V. = 450
		TRUCKS = 36.2%
		V. = 70 MPH
		18 KIP ESAL'S = 669 DAILY
		ANNUAL GROWTH RATE = 1.0%

ASSOCIATED PROJECT
AGREEMENT NUMBERS

R/W	
I. C.	
P. E.	IM 94-6(71)231



STA. 162+83.00 ON
I 94-6(8)221 U1 =
STA. 162+83.00 BEG. ON
IM 94-6(72)231

RP 238.0 TO RP 244.2
THIS CONTRACT - WESTBOUND ONLY

STA. 501+50.00 END ON
IM 94-6(72)231 =
STA. 501+50.00 ON I 94-7(4)233

MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:
HIGHWAYS
ENGINEER
APPROVED
By David Holien at 4:31 pm, Sep 16, 2026
DATE

DAVID
HOLIEN
20186PE
LICENSED
PROFESSIONAL ENGINEER

SHEET NO.

1

TITLE

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY

WIBAUX

PROJECT ID

IM 94-6(72)231

UPN

10230000

DESIGNED BY
A. BORSCHEL
03/2025

REVIEWED BY

CHECKED BY
J. SOLIDAY
05/2026

10230000RDTL001.DWG

MONTANA
Department of Transportation

ROAD PLANS

8/24/2026 8:45 AM

TABLE OF CONTENTS

NOTES

ROAD PLANS

SHEET NO.

BASIS OF PLAN QUANTITIES

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.

AS-BUILTS

I 94-6(29)226, 1978
I 94-7(9)233, 1978
IR 94-7(17)235, 1987
IR 94-6(37)218, 1988
IM 94-7(24)240, 2005

SALVAGE COLD MILLING

APPROXIMATELY 8,500 CUBIC YARDS OF COLD MILLINGS WILL BE GENERATED WITH THIS PROJECT.

SALVAGE ±8,500 CUBIC YARDS OF COLD MILLINGS TO THE WIBAUX COUNTY LANDFILL, LOCATED AT 81 MINGUS ROAD, WIBAUX, MT [W 1/2, SE 1/4, SEC 06, T14 N, R60 E]. TO ARRANGE DELIVERY CONTACT:

TIM BARTHEL
PHONE: (406) 796-2443
EMAIL: ROADDEPT@WIBAUXCOUNTY.NET

CONTACT WIBAUX COUNTY AT LEAST 2 WEEKS PRIOR TO ARRANGE FOR DELIVERY.

THIS WORK IS NOT MEASURED AND PAID FOR SEPARATELY. INCLUDE THE COST OF TRANSPORTING THE MATERIAL DESCRIBED IN THE UNIT PRICE BID PER SQUARE YARD OF COLD MILLING.

CENTERLINE COORDINATE TABLE - 10230000_RD_EA_WB_CL				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
383+83.57	BOA	1,044,732.591	3,293,313.549	
386+60.00	EOA	1,044,676.999	3,293,584.328	
PROFILE NAME: 10230000_RD_EP_WB_CL				

SIGNING PLANS

SUMMARY

SPECIFICATIONS

DETAILS

ELECTRICAL PLANS

SUMMARY & DETAILS

BRIDGE PLANS

BRIDGE PLANS

AS-BUILT DRAWINGS

CROSS SECTIONS

EMB. PROTECTOR

S1

S2-S4

S5

E1

B1-B5

9 SHEETS

1-5

TABLE OF CONTENTS, NOTES & CENTERLINE COORDINATE TABLE

PROJECT NAME	WIBAUX-EAST & WEST (WB)
COUNTY	WIBAUX
PROJECT ID	IM 94-6(72)231
UPN	10230000

DESIGNED BY	A. BORSCHEL	03/2025
REVIEWED BY		
CHECKED BY		
J. SOLIDAY		05/2026
102300000RDTTL001.DWG		


MONTANA
 Department of Transportation
ROAD PLANS
 8/24/2026 8:45 AM



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 0.99926756

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

LEVEL DATUM SOURCE
ELEVATIONS DERIVED FROM DIFFERENTIAL LEVELS HOLDING BMS A34, L557, N557,
AND V207

SHEET NO.
3

CONTROL DIAGRAM

MONTANA Department of Transportation	PROJECT NAME WIBAUX-EAST & WEST (WB)	
	COUNTY	WIBAUX
	PROJECT ID	IM 94-6(72)231
	UPN	10230000
DESIGNED BY A. BORSCHEL	03/2025	
REVIEWED BY		
CHECKED BY J. SOLIDAY	05/2026	
10230000RDTRV001.DWG		
ROAD PLANS		9/3/2026 2:18 PM

CONTROL ABSTRACT

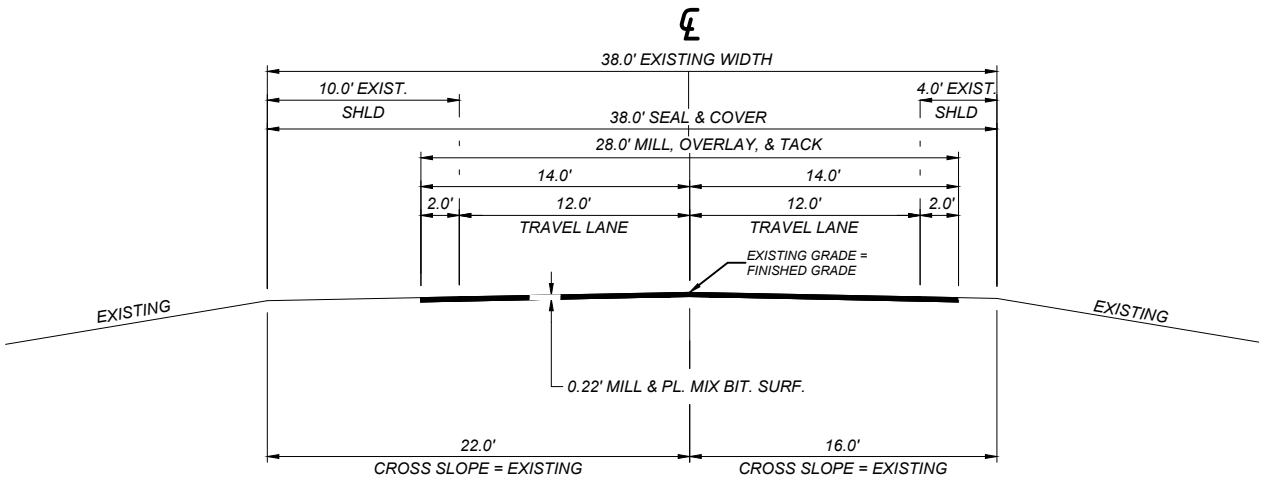
CONTROL ABSTRACT			
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
6238799	1,043,410.489	3,291,574.131	2,660.21
6248799	1,044,042.900	3,292,798.799	2,643.20
6258799	1,043,764.843	3,294,774.170	2,704.50
6268799	1,042,764.826	3,296,121.601	2,663.05
6278799	1,044,096.175	3,296,335.305	2,689.98
6288799	1,044,915.056	3,291,765.863	2,654.86
6338799	1,043,857.920	3,293,681.444	2,658.86
A34TBM	1,042,908.596	3,292,743.107	2,658.72
K8799	1,043,927.657	3,293,083.753	2,645.64
L557	1,044,331.562	3,295,697.956	2,699.95
L8799	1,043,938.314	3,293,330.971	2,651.61
M8799	1,043,853.425	3,293,374.636	2,647.61
N8799	1,043,977.733	3,293,474.859	2,638.73
P8799	1,043,599.649	3,293,620.203	2,649.26
R8799	1,043,804.662	3,293,820.653	2,660.56
S8799	1,043,863.681	3,293,894.373	2,664.14
T8799	1,043,653.015	3,294,392.195	2,693.48
U8799	1,043,599.278	3,294,723.369	2,711.37

CONTROL DIAGRAM

 MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME	
	A. BORSCHEL	03/2025	WIBAUX-EAST & WEST (WB)	
	REVIEWED BY		COUNTY	WIBAUX
			PROJECT ID	IM 94-6(72)231
ROAD PLANS		CHECKED BY	UPN	10230000
		J. SOLIDAY	05/2026	
102300000RDTRV001.DWG				

TYPICAL SECTION NO. 1

WESTBOUND - MAINLINE



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		6.16	square yards PER STATION		422	311
cubic yards PER STATION		22.8	tons PER STATION	2.37	0.75	
tons PER STATION		43.9	gals. PER STATION			16
square yards PER STATION	422					

* BASED ON 1 APPLICATION

WESTBOUND			
162+83.00	TO	251+73.46	
251+73.46	TO	255+01.94	TRANSITION TYP. NO. 1 TO TYP. NO. 2
278+37.93	TO	386+60.00	B.E. THEN TO TYP. NO. 3
389+66.50	TO	448+76.00	THEN TO TYP. NO. 4
451+76.00	TO	501+50.00	

NOTE: FOR EQUATIONS SEE THE SURFACING FRAME.

SHEET NO.

5

TYPICAL SECTION

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY
WIBAUX

PROJECT ID
IM 94-6(72)231

UPN
10230000

DESIGNED BY
A. BORSCHEL

03/2025

REVIEWED BY

CHECKED BY

05/2026

J. SOLIDAY

102300000RDTYP001.DWG



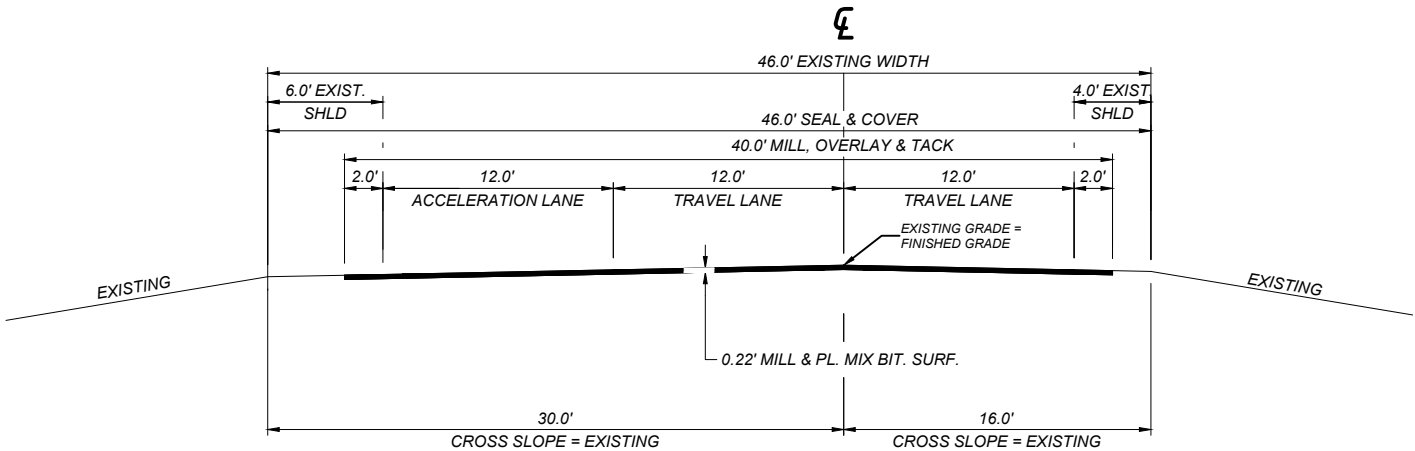
ROAD PLANS

8/17/2026 4:10 PM

WESTBOUND			
255+01.94	TO	278+37.93	THEN TO TYP. NO. 1

TYPICAL SECTION NO. 2

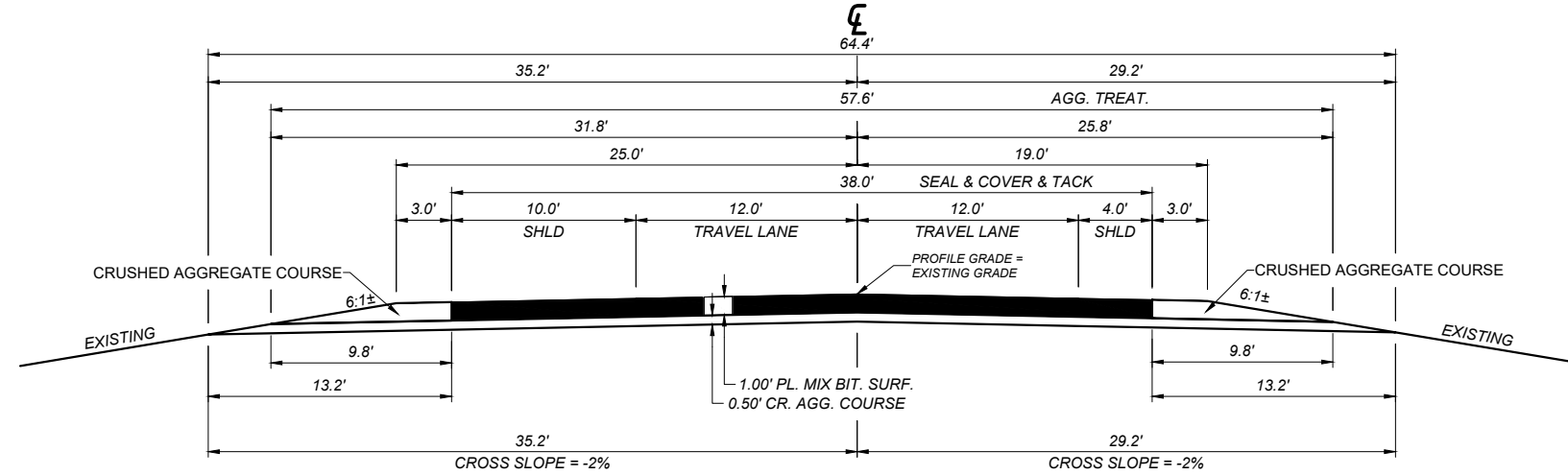
WESTBOUND - WEIGH STATION ACCELERATION LANE



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		8.80	square yards PER STATION		511	444
cubic yards PER STATION		32.6	tons PER STATION	3.39	0.91	
tons PER STATION		62.8	gals. PER STATION			22
square yards PER STATION	511					

* BASED ON 1 APPLICATION

WESTBOUND - APPROACH SLAB REMOVAL

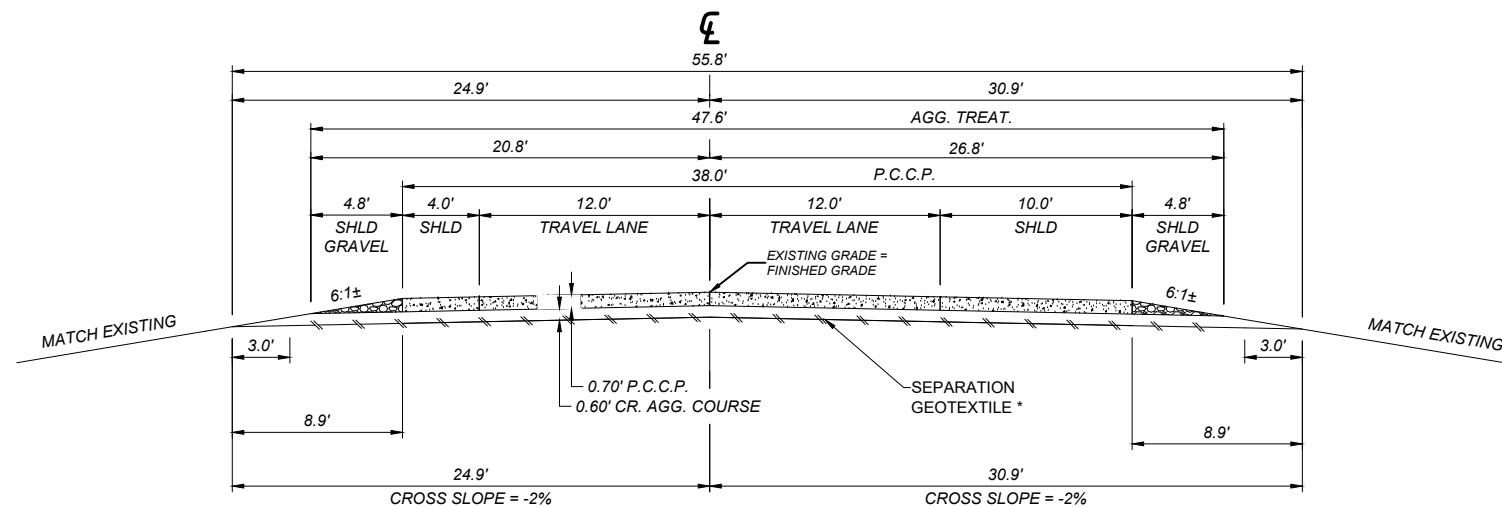


QUANTITIES								
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			AGG. TREATMENT
	COVER	PLANT MIX	CR. AGG. COURSE		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		38.00	43.30	square yards PER STATION		422	2,110	640
cubic yards PER STATION		140.7	160.4	tons PER STATION	14.64	0.75		
tons PER STATION		271.2		gals. PER STATION			106	
square yards PER STATION	422							

* BASED ON 5 APPLICATIONS

WESTBOUND
448+76.00 TO 451+76.00 THEN TO TYP. NO. 1

WESTBOUND - INTERSTATE WIM NEW P.C.C.P



* END GEOTEXTILE 3' FROM DAYLIGHT

QUANTITIES					
UNIT	AGGREGATE		P.C.C.P		
	CR. AGG. COURSE	SHLD GRAVEL #	0.70'	AGG. TREATMENT	GEOTEXTIL
AREA square feet	31.02	3.36			
cubic yards PER STATION	114.9	12.4			
tons PER STATION					
square yards PER STATION			422	620	553
# INCLUDES BOTH SHOULDERS					

INCLUDES BOTH SHOULDERS

TYPICAL SECTION

PROJECT NAME	WIBAUX-EAST & WEST (WB)
COUNTY	

WIBAUX

IM 94-6(72)231

10230000

DESIGNED BY	
A. BORSCHEL	03/2025
REVIEWED BY	

J. SOLIDAY	05/2026
CHECKED BY	



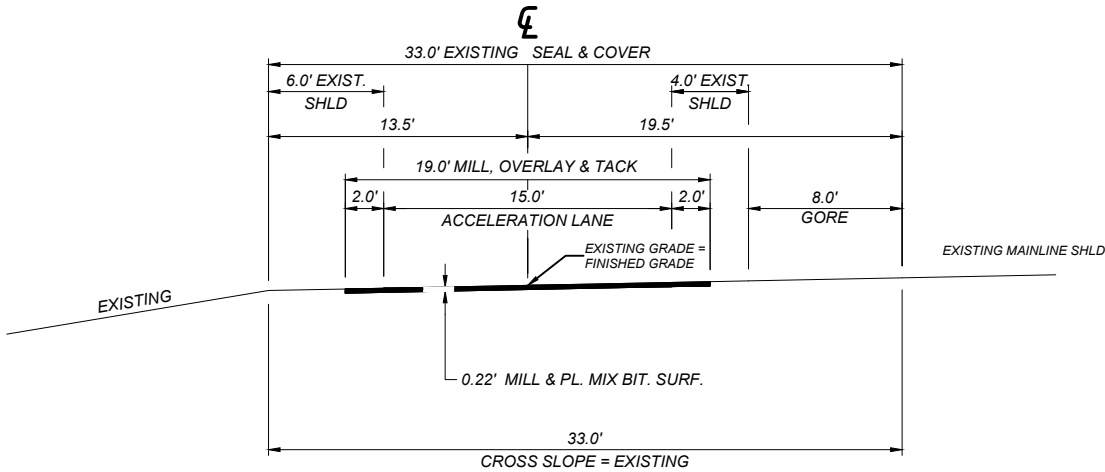
MONTANA
Department of Transportation

ROAD PLANS

8/17/2026 4:10 PM

TYPICAL SECTION NO. 5

WESTBOUND - WEIGH STATION ON RAMP

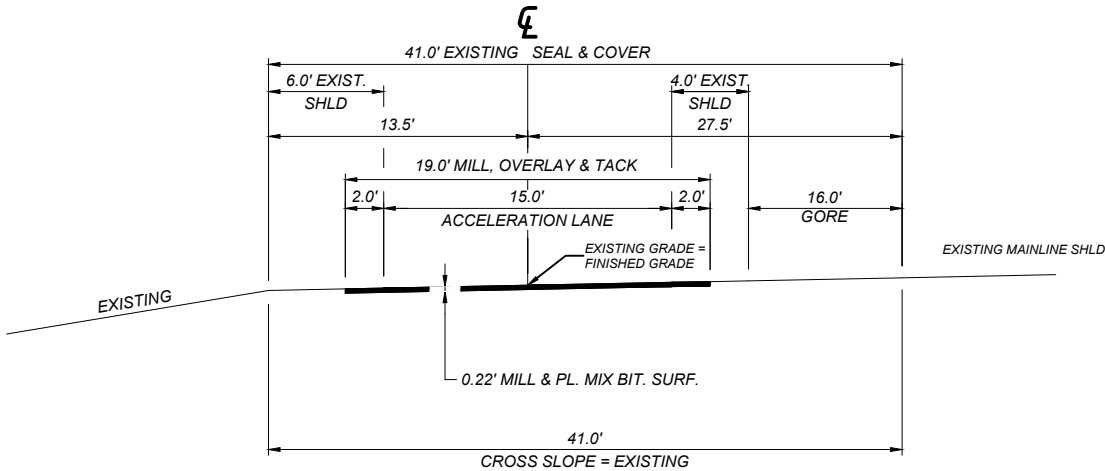


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		4.18	square yards PER STATION		367	211
cubic yards PER STATION		15.5	tons PER STATION	1.61	0.66	
tons PER STATION		29.9	gals. PER STATION			11
square yards PER STATION	367					

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 6

WESTBOUND - WEIGH STATION OFF RAMP

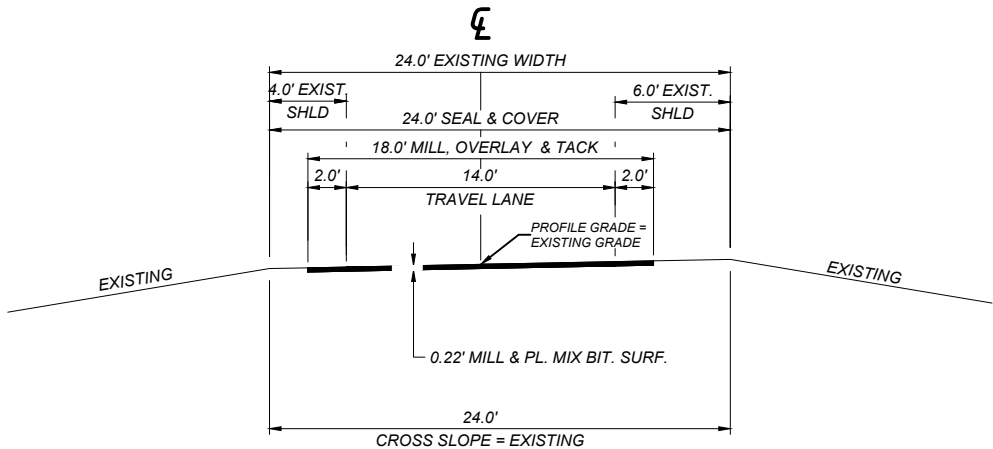


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		4.18	square yards PER STATION		456	211
cubic yards PER STATION		15.5	tons PER STATION	1.61	0.81	
tons PER STATION		29.9	gals. PER STATION			11
square yards PER STATION	456					

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 7

WESTBOUND - INTERCHANGE RAMPS



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		3.96	square yards PER STATION		267	200
cubic yards PER STATION		14.7	tons PER STATION	1.53	0.48	
tons PER STATION		28.3	gals. PER STATION			10
square yards PER STATION	267					

* BASED ON 1 APPLICATION

WEST WIBAUX INTERCHANGE
346+93.50 TO 355+93.50 RAMP "C1" TAPER *
355+93.50 TO 365+09.10 RAMP "C1"
EAST WIBAUX INTERCHANGE
397+73.60 TO 416+00.00 RAMP "C4"
* TAPER FROM 0.0 FT TO 24.0 FT WIDTH
NOTE: FOR EQUATIONS SEE THE SURFACING FRAME.

SHEET NO.

8

TYPICAL SECTION

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY

WIBAUX

PROJECT ID

IM 94-6(72)231

UPN

10230000



ROAD PLANS

8/17/2026 4:10 PM

10230000RDTYP001.DWG

GUARDRAIL																
STATION		linear feet						each								REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL		BOX BEAM GUARDRAIL		MASH BOX BEAM TERMINAL SECTION MBEAT		BOX BEAM ONE-WAY DEPARTURE TERMINAL SECTION		MASH THRIE-BEAM BRIDGE APPROACH SECTION		BOX BEAM TO MGS TRANSITION SECTION		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
NEW RAIL																
363+77.21	367+02.40						306		1		1					
365+38.11	366+65.30					108		1		1						
371+22.25	385+33.50					1,404				1						
385+33.50	386+60.00 BE				50.0								1		1	BEAVER CREEK BRIDGE - MDT ID #02091
389+46.00 BE	390+35.00			12.5								1		1		BEAVER CREEK BRIDGE - MDT ID #02091
389+46.00 BE	390+35.00				12.5								1		1	BEAVER CREEK BRIDGE - MDT ID #02091
390+35.00	392+08.94					162		1								
390+35.00	392+08.94						162		1							
397+12.21	400+37.40						306		1		1					
398+22.81	399+50.00					108		1		1						
REMOVE RAIL																
363+77.40	367+02.40		325.0													
365+36.80	366+65.30	128.5														
371+35.00	386+60.00 BE	1,525.0														BEAVER CREEK BRIDGE - MDT ID #02091
389+46.00 BE	392+08.50		262.5													BEAVER CREEK BRIDGE - MDT ID #02091
389+46.00 BE	392+08.50	262.5														BEAVER CREEK BRIDGE - MDT ID #02091
397+12.40	400+37.40		325.0													
398+40.00	399+50.00	110.0														
SUBTOTAL		2,026.0	912.5	12.5	62.5	1,782	774	3	3	3	2	1	2	1	2	
TOTAL		2,938.5		75.0		2,556		6		5		3		3		

RUMBLE STRIPS						
STATION		miles		lump sum	gals	REMARKS
		RUMBLE STRIPS		RUMBLE STRIPS	EMULSIFIED ASPHALT FOG SEAL #	
		CONTIN- UOUS	INTER- MITTENT	TRANSVERSE		
FROM	TO					
162+83.00	386+60.00	4.2			493	WESTBOUND RT. BEAVER CREEK BRIDGE
389+46.00	465+00.00	1.4			164	WESTBOUND RT.
162+83.00	251+73.46		1.7		199	WESTBOUND LT. WEIGH STATION ON RAMP
283+17.85	295+91.83		0.2		23	WESTBOUND LT. WEIGH STATION OFF RAMP
305+72.01	346+93.50		0.8		94	WESTBOUND LT. WEST WBAUX INTER. RAMP "C1"
357+17.00	386+60.00		0.6		70	WESTBOUND LT. BEAVER CREEK BRIDGE
389+46.00	411+50.00		0.4		47	WESTBOUND LT. EAST WBAUX INTER. RAMP "C4"
417+00.00	501+50.00		1.6		188	WESTBOUND LT.
397+73.60	416+00.00			1.0	3	EAST WBAUX INTER. RAMP "C4"
SUBTOTAL		5.6	5.3	1.0	1,278	
TOTAL		10.9		1.0		~

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

FENCING						
STATION		linear feet	each		DEADMAN	REMARKS
		FARM FENCE	FARM FENCE PANEL			
		TYPE F3M-32 IN WW	SINGLE	DOUBLE		
			FM	FM		
FROM	TO		FM	FM		
162+83.00	255+50.00	9,267	2	14		LT. TIE TO EX. FENCE
255+50.00	286+96.00	3,146		7		LT.
286+96.00	295+32.00	1,380	1	4		LT. WEIGH STATION
295+32.00	356+00.00	6,068	4	9		LT.
356+00.00	371+00.00	1,810	2	9		LT. WEST WIBAUX INTERCHANGE
371+00.00	386+60.00 B.E.	1,610	1	2		LT. TIE TO EX. BRIDGE
389+46.00 B.E.	397+66.00	820	3	1		LT. TIE TO EX. BRIDGE
397+66.00	415+00.00	1,950	2	7		LT. EAST WIBAUX INTERCHANGE
415+00.00	501+50.00	8,650	8	15		LT. TIE TO EX. FENCE
TOTAL		34,701	23	68	33	

FOR INFORMATION ONLY

MEDIAN CROSSOVER				
STATION		each		REMARKS
		CROSSOVER- CONST., MAINTAIN, REMOVE	CROSSOVER RECLAMATION	
FROM	TO			
370+42	380+26	1	1	EB & WB CROSSOVER
389+89	399+89	1	1	EB & WB CROSSOVER
TOTAL		2	2	

CROSSOVER TRAFFIC CONTROL				
STATION		each	miles	REMARKS
		TRAFFIC CONTROL- CROSSOVER	TRAFFIC CONTROL- TWO-WAY TRAFFIC	
FROM	TO			
370+42	380+26	1		EB & WB CROSSOVER EASTBOUND
389+89	399+89	1	0.3	EB & WB CROSSOVER
TOTAL		2	0.3	

PAVEMENT MARKINGS				
ITEM	UNIT	INTERIM APPLICA- TION #	FINAL APPLICA- TION	TOTAL
STRIPING - WHITE PAINT	gallon	315		315
STRIPING - YELLOWPAINT	gallon	235		235
WORDS & SYMBOLS - WHITE PAINT	gallon	2		2
STRIPING - WHITE EPOXY	gallon		210	210
STRIPING - YELLOWEPOXY	gallon		157	157
WORDS & SYMBOLS - WHITE EPOXY	gallon		2	2
TEMPORARY STRIPING	linear feet			16,500
FINAL SWEEP AND BROOM	course mile			6.3

BASED ON 1 APPLICATION.

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY

WIBAUX

PROJECT ID

IM 94-6(72)231

UPN

10230000

DESIGNED BY
A. BORSCHEL

03/2025

REVIEWED BY

CHECKED BY

05/2026

10230000RDSUM001.DWG

SUMMARY

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY
WIBAUX

PROJECT ID
IM 94-6(72)231

UPN
10230000

DESIGNED BY
A. BORSCHEL

03/2025

REVIEWED BY

CHECKED BY

05/2026

10230000RDSUM001.DWG



ROAD PLANS

PERMANENT EROSION CONTROL *				
STATION		sq. yards		REMARKS
		GEOTEXTILE	EROSION CONTROL BLANKET	
		PERM. EROS. CNTRL.		
		HIGH SURV. CLASS C	HIGH PERFORM.	
FROM	TO			
385+75.00	385+92.00	15		LT.
385+92.00	386+30.00		26	LT.
TOTAL		15	26	

* SEE DETAIL AND CROSS SECTIONS

EMBANKMENT PROTECTORS*					
STATION		linear feet		cu. yards	REMARKS
		EMBANKMENT PROTECTOR	CONCRETE CURB 4"	ANCILLARY ARMOR	
		18"			
FROM	TO	LEFT	LEFT	TYPE I	
385+75	385+92			13.0	LT.
385+83.89		58.6			LT. BEND = 26.0°
385+86	386+60 B.E.		78.0		LT.
TOTAL		58.6	78	13.0	

* SEE DETAIL AND CROSS SECTIONS

GRADING				
STATION		cu. yards		REMARKS
		UNLC. EXC.	EMB.+	
FROM	TO			
385+00.00	386+60.00	44	225	LT.
		677		WIM SITE.
TOTAL		721	# 225	

FOR INFORMATION ONLY

TOPSOIL & SEEDING				
STATION		cu. yards	lump sum	REMARKS
		TOPSOIL SALVAGING & PLACING	REVEGETATION	
FROM	TO			
385+00.00	386+60.00	83		
TOTAL		# 83	1.0	

FOR INFORMATION ONLY

COLD MILLING			
STATION		sq. yards	REMARKS
		COLD MILLING	
FROM	TO	0.22 ft	
162+83.00	251+73.46	27,659	TYP. NO. 1
251+73.46	255+01.94	1,241	TRANS. TYP. NO. 1 TO TYP. NO. 2
255+01.94	278+37.93	10,382	TYP. NO. 2
278+37.93	386+60.00 BE	33,669	TYP. NO. 1
389+66.50	448+76.00	18,385	TYP. NO. 1
451+76.00	501+50.00	15,475	TYP. NO. 1
278+37.93	283+00.52	977	TYP. NO. 5. WEIGH STATION ON RAMP
299+00.52	304+65.45	1,193	TYP. NO. 6. WEIGH STATION OFF RAMP
346+93.50	355+93.50	950	TYP. NO. 7. RAMP "C1" TAPER
355+93.50	365+09.10	1,831	TYP. NO. 7. WEST WIBUAX INTER. RAMP "C1"
397+73.60	416+00.00	3,653	TYP. NO. 7. EAST WIBUAX INTER. RAMP "C4"
TOTAL		115,415	

GUARDRAIL END SECTION WIDENING			
STATION	each		REMARKS
	GUARDRAIL END SECTION WIDENING		
	LEFT	RIGHT	
WESTBOUND			
366+65.30	1		
367+02.40		1	
392+08.94	1	1	
400+37.40		1	
399+50.00	1		
SUBTOTAL	3	3	
TOTAL	6		

TEMPORARY GUARDRAIL								
STATION		linear feet		each				REMARKS
		TEMPORARY METAL GUARDRAIL		TEMPORARY OPTIONAL TERMINAL SECTION		TEMPORARY METAL GUARDRAIL-BRIDGE APPROACH SECTION TYPE 1		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
389+46.00 BE		25.0		1		1		BEAVER CREEK (EB) LT. #
389+46.00 BE			62.5		1		1	BEAVER CREEK (EB) RT. #
SUBTOTAL		25.0	62.5	1	1	1	1	
TOTAL		88		2		2		

WHEN TEMPORARY GUARDRAIL IS REMOVED; FILL IN ALL POST HOLES WITH PAVEMENT FLUSH AND LEVEL WITH EXISTING SURFACING.

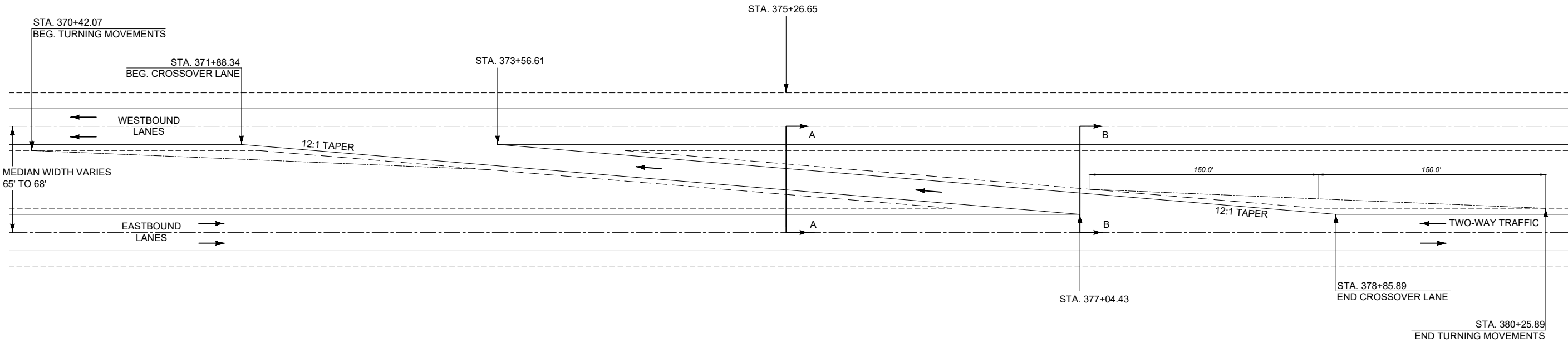
ADVERTISED COPY

DETAIL

SHEET NO.

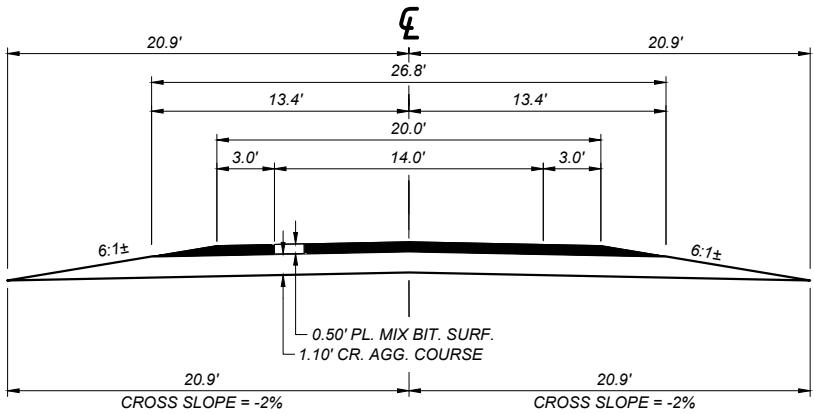
12

MEDIAN CROSSOVER
STA. 375+26.65



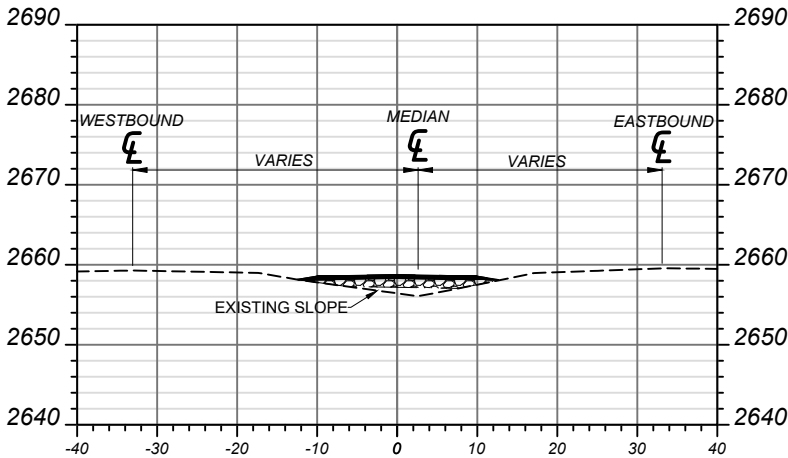
NEW TEMPORARY CROSSOVER (WESTBOUND LANES CLOSED)

TEMPORARY CROSSOVER TYPICAL SECTION

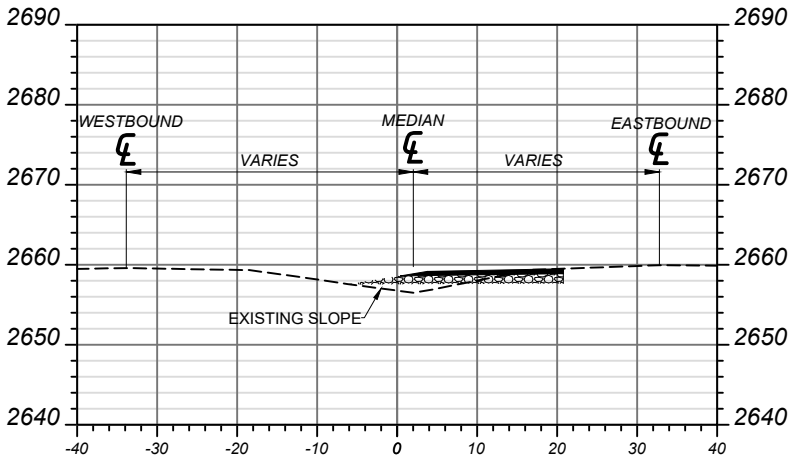


QUANTITIES FOR ONE MEDIAN CROSSOVER
(FOR INFORMATION ONLY)
PLANT MIX BIT. SURF. = 361 TONS
CRUSHED AGG. COURSE = 340 CYD.
EMB. IN PLACE = 244 CYD.
18" DR. = 396 LINEAR FT
10:1 SAFETY SLOPE END SECTION
FOR PARALLEL DRAINAGE = 2 EACH

SECTION A-A



SECTION B-B



PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY

WIBAUX

PROJECT ID

IM 94-6(72)231

UPN

10230000

DESIGNED BY
A. BORSCHEL

REVIEWED BY
J. SOLIDAY

CHECKED BY
J. SOLIDAY

10230000RDEET001.DWG

MONTANA
Department of Transportation

ROAD PLANS

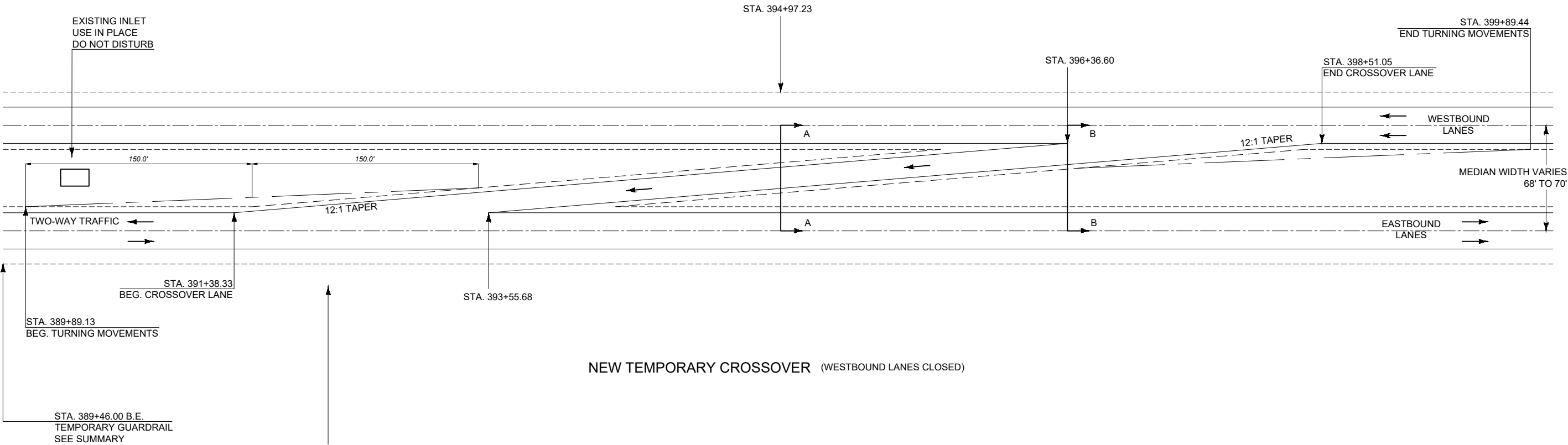
9/3/2026 2:19 PM

DETAIL

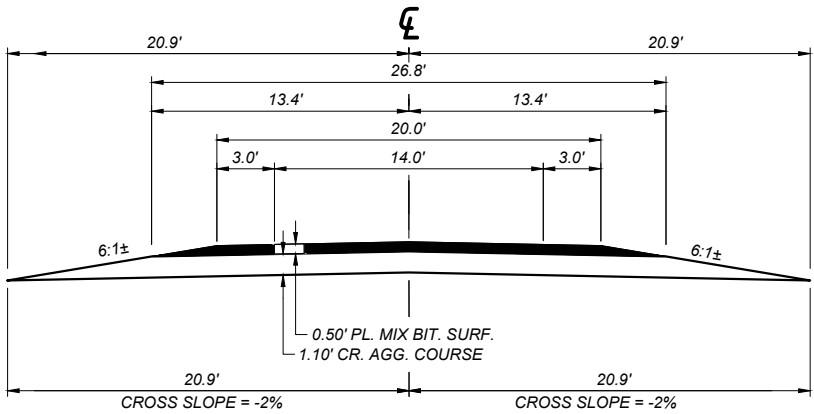
SHEET NO.

13

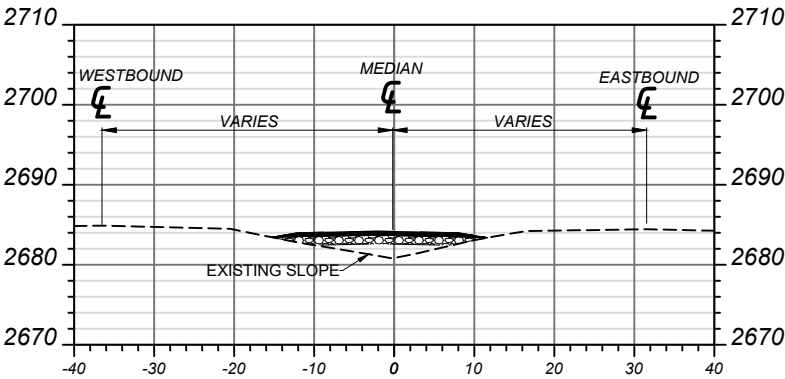
MEDIAN CROSSOVER
STA. 394+97.23



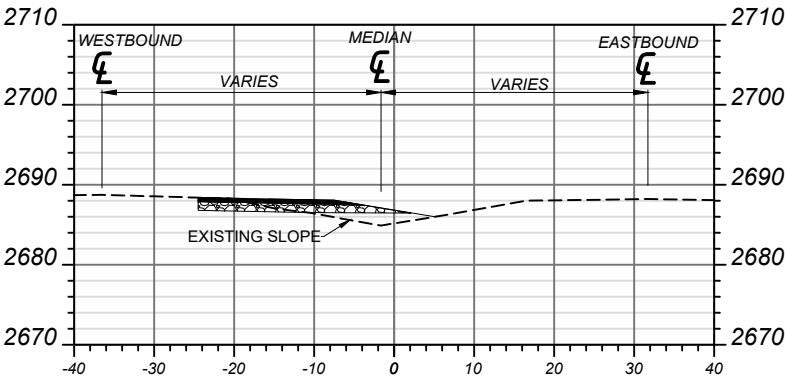
TEMPORARY CROSSOVER TYPICAL SECTION



SECTION A-A



SECTION B-B



QUANTITIES FOR ONE MEDIAN CROSSOVER
(FOR INFORMATION ONLY)
PLANT MIX BIT. SURF. = 379 TONS
CRUSHED AGG. COURSE = 362 CYD.
EMB. IN PLACE = 353 CYD.
18" DR. = 318 LINEAR FT
10:1 SAFETY SLOPE END SECTION
FOR PARALLEL DRAINAGE = 2 EACH

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY
WIBAUX

PROJECT ID
IM 94-6(72)231

UPN
10230000

DESIGNED BY
A. BORSCHEL

REVIEWED BY
01/2026

CHECKED BY
J. SOLIDAY

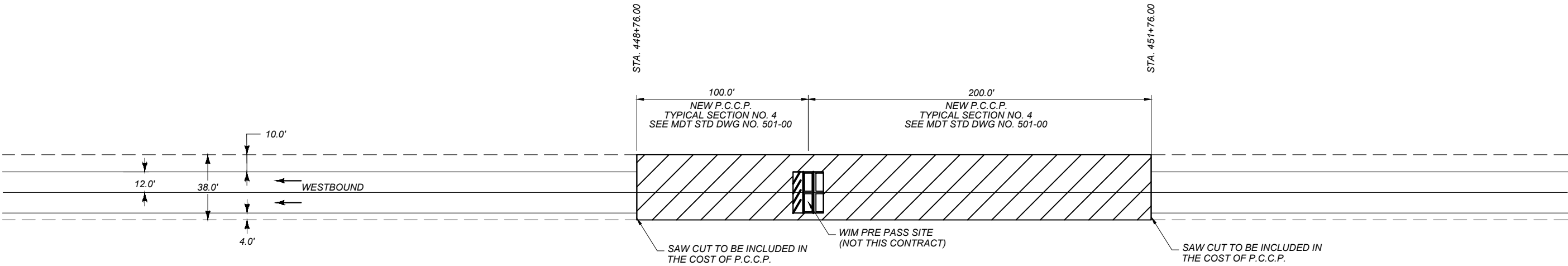
10230000RDE001.DWG

MONTANA
Department of Transportation

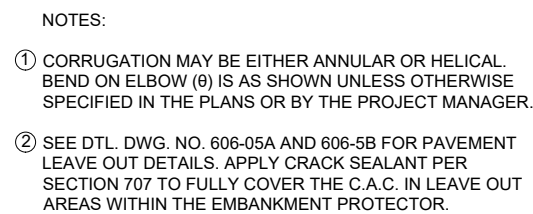
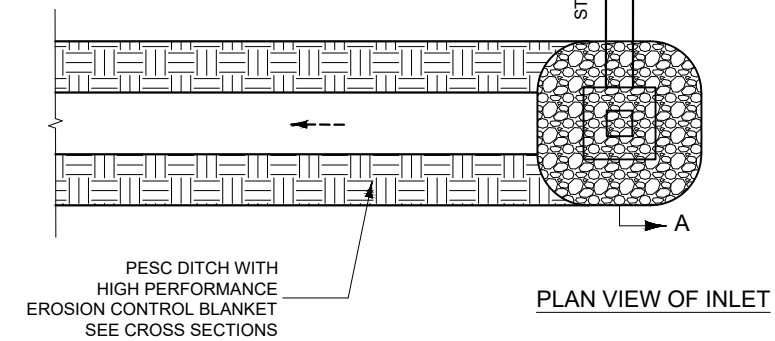
ROAD PLANS

9/3/2026 2:19 PM

WIM SITE LAYOUT DETAIL



SHEET NO.		14	
 ROAD PLANS		PROJECT NAME WIBAUX-EAST & WEST (WB)	
		COUNTY WIBAUX	
		PROJECT ID IM 94-6(72)231	
		UPN 10230000	
		10230000RDET001.DWG	
8/3/2026 8:03 AM			



* INCLUDED WITH ROADWAY QUANTITIES.

SECTION A-A

 MONTANA Department of Transportation		ROAD PLANS	
8/3/2026 8:03 AM		10230000R0DDT001.DWG	
J. SOLIDAY		05/2026	
CHECKED BY		PROJECT ID	
REVIEWED BY		IM 94-6(72)231	
DESIGNED BY		COUNTY	
A. BORSCHEL		WIBAUX-EAST & WEST (WB)	
03/2026		PROJECT NAME	

SUMMARY
SIGNING & DELINEATION QUANTITIES

DELINEATION SPECIFICATIONS		
SYMBOL	DESIGN	TOTALS
	A	107
	B	26
	D	4
	G	38
	H	85
	BJ	27
	GJ	16

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET XI	339.4	SQ. FOOT
SIGNS-ALUM SHEET INCR XI	865.6	SQ. FOOT
POSTS-STEEL U SIGN	252	POUNDS
POLES-TREATED WOOD 4 IN	7	EACH
POLES-TREATED WOOD 5 IN	8	EACH
POSTS-TUBULAR STEEL	1014	POUNDS
POSTS-STEEL STRUCTURAL SIGN	753	POUNDS
DELINEATOR TYPE 1	303	EACH
REMOVE SIGNS	25	EACH
REMOVE SIGNS-GUIDE	5	EACH
FRANG SIGN POST BKWY-W8X18	2	EACH
FRANG SIGN POST BKWY-3.5 IN RD	3	EACH
FRANG SIGN POST BKWY-4 IN RD	4	EACH

ADOPT-A-HIGHWAY SIGNING

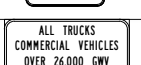
CONTRACTOR WILL CONFIRM THAT THE GROUP NAME ON THE SIGN(S) CURRENTLY EXISTING AT THE TIME OF CONSTRUCTION CORRESPONDS TO THE GROUP NAME ON THE SIGN(S) SHOWN IN PLANS. IF NAME IS DIFFERENT, FIELD PROJECT MANAGER WILL CONTACT TRFFIC & SAFETY BUREAU SIGNING SECTION WITH CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

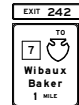
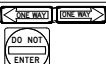
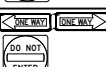
MOUNTING HEIGHT REQUIREMENTS:
MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL.
SEE DETAIL DRAWINGS 619-00 & 619-08.

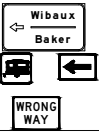
FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

BBR = BACKBRACING REQUIRED:
-FOR WOOD POST 2" X 4" REQ'D
-FOR STRUCTURAL STEEL
2" X 2" 1/4" ANGLE IRON REQ'D

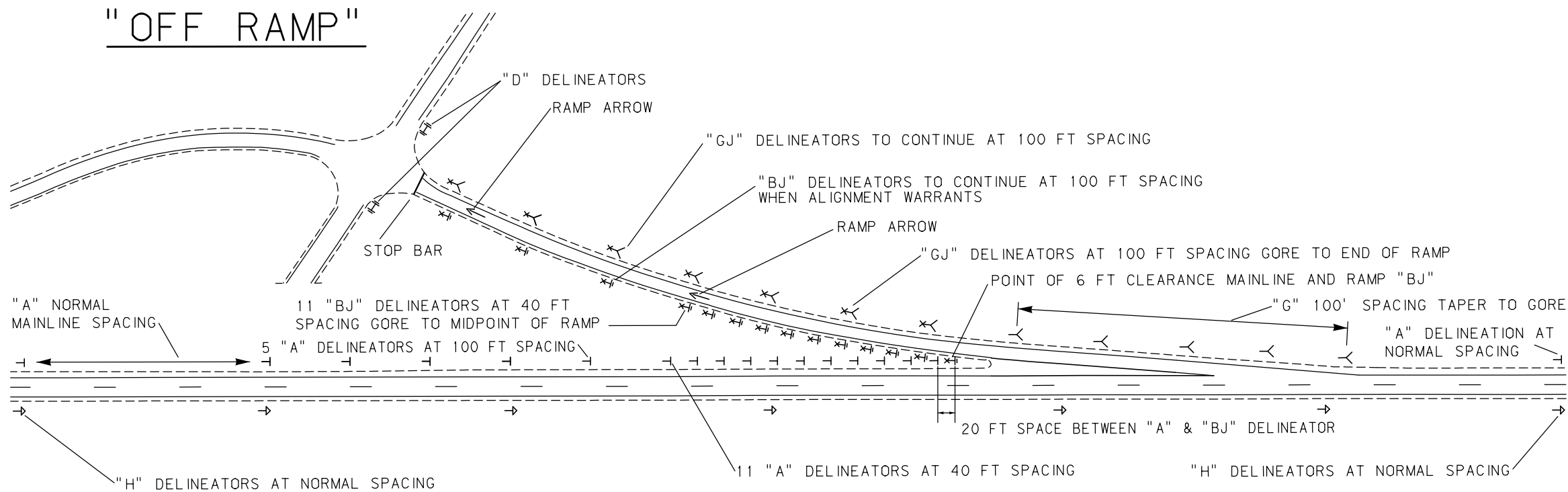
X = STANDARD BREAKAWAY DEVICE:
-FOR WOOD POST SEE
DETAILED DRAWING 619-20.
-FOR STRUCTURAL STEEL SEE
DETAILED DRAWING 619-13.

SIGN LOCATION			PANEL SPECIFICATIONS				SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES														ADDITIONAL INFORMATION														
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)			STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS										
				W	X	H							MOUNTING HEIGHT	SIGN HEIGHT+GAPS (ABOVE MOUNTING HEIGHT)	FOUNDATION DEPTH	X				Y	Z	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	6" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR		STRUCTURAL STEEL	"U" POST	SIGN	GUIDE			SIGN	GUIDE								
238.000	R	REPLACE	D10-3	12	X	48				6.0	3.0lb Steel U Post		4' Stl U - RP/M	4.0	3.0	12.0						4.0								36		1					MILE 238								
239.000	R	REPLACE	D10-3	12	X	48				6.0	3.0lb Steel U Post		4' Stl U - RP/M	4.0	3.0	12.0						4.0								36		1					MILE 239								
239.980	M	REPLACE	R4-14	30	X	24				13.5	4" Treated Wood Pole		7' Std - Inters	2.0	3.0	12.0						5.0 5.0		12								1					AUTHORIZED VEHICLES ONLY AUTHORIZED VEHICLES ONLY								
240.000	R	REPLACE	D10-3	12	X	48				6.0	3.0lb Steel U Post		4' Stl U - RP/M	4.0	3.0	12.0						4.0								36		1					MILE 240								
240.366	M	REPLACE	R4-14	30	X	24				13.5	4" Treated Wood Pole		7' Std - Inters	2.0	3.0	12.0						5.0 5.0		12								1					AUTHORIZED VEHICLES ONLY AUTHORIZED VEHICLES ONLY								
240.620	R	REPLACE	W3-5	48	X	48				20.0	3.5" Tubular Stl-Round		7' Std - Inters	5.7	3.0	16.0						16.0					146			1	1				SPEED LIMIT 15 AHEAD										
240.716	R	REPLACE	R99-1cR MT	72	X	48				20.0	4.0" Tubular Stl-Round		7' Std - Inters	4.0	3.0	14.3							24.0				154			1		1				MANDATORY WATERCRAFT INSPECTION									
240.731	R	RSFO	D8-3	84	X	78																45.5													WEIGH STATION										
240.891	R	RSFO	W11-3	48	X	48																16.0													DEER CROSSING SYMBOL										
240.931	R	RSFO	D8-2	126	X	66																57.8													WEIGH STATION NEXT RIGHT										
241.000	R	REPLACE	D10-3	12	X	48				6.0	3.0lb Steel U Post		4' Stl U - RP/M	4.0	3.0	12.0						4.0								36		1					MILE 241								
241.041	R	RSFO	G11-301	144	X	60																60.0													GLENDIVE 28 MILES CITY 103 BILLINGS 245										
241.156	R	REPLACE	R99-1b MT	72	X	48				20.0	4.0" Tubular Stl-Round		7' Std - Inters	4.0	3.0	14.3						24.0					154			1		1				MANDATORY WATERCRAFT INSPECTION 1/2 MILE									
241.221	R	RSFO	R13-1	132	X	72																66.0													ALL TRUCKS COIMMERCIAL VEHICLES OVER 26,000 GVW NEXT RIGHT										
241.296	R	RSFO	R2-1 R2-2	48 X 60 48 X 36																		20.0 12.0													SPEED LIMIT 80 TRUCKS 70										
241.341	M	REPLACE	R4-14	30	X	24				13.5	4" Treated Wood Pole		7' Std - Inters	2.0	3.0							5.0 5.0		12							1					AUTHORIZED VEHICLES ONLY AUTHORIZED VEHICLES ONLY									
241.361	R	REPLACE	D8-1	108 X 72 108 X 36						30.0	W8x18 Structural Steel	5.5	6' Min Inters	9.2	5.5	20.5	21.3						54 27					753		2		1				WEIGH STATION 1 MILEOPEN WHEN FLASHING									
																																			OPEN-POWERED SIGN										
241.466	R	RSFO	W8-5 W8-5aP	48 X 48 30 X 18																		16.0 3.75													SLIPPERY WHEN WET ICE										
241.651	R	REPLACE	R99-1a MT	72	X	48				20.0	4.0" Tubular Stl-Round		7' Std - Inters	4.0	3.0	14.3						24.0					154			1		1				MANDATORY WATERCRAFT INSPECTION 1 MILE									
3 2 1							DESIGNED BY		AJH	05/01/2026		SIGNING PLANS										WIBAUX - EAST & WEST (WB)						IM 94-6(71)231																	
CHECKED BY							JDM		05/01/2026		WIBAUX COUNTY																																		

SIGN LOCATION			PANEL SPECIFICATIONS				SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES														ADDITIONAL INFORMATION								
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			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)	FEET	TYPE OF SUPPORT	SUPPORT SPACING	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)			STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS		
														MOUNTING HEIGHT	SIGN HEIGHT+GAPS (ABOVE MOUNTING HEIGHT)	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)						SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	6" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE				
				W	X	H											X	Y	Z																					
242.026	R	REPLACE	N7-1 MT	36	X	48				20.0	5" Treated Wood Pole		7' Std - Inters	4.0	3.0	17.3							12.0			18						X	1				ADOPT A HIGHWAY KEEP IT GREEN KEEP IT CLEAN			
242.000	R	REPLACE	D10-3	12	X	48				6.0	3.0lb Steel U Post		4' Stl U - RP/M	4.0	3.0	12.0							4.0							36		1					MILE 242			
242.296	R	RSFO	G9-1	60	X	36																	15.0														BEAVER CREEK			
242.412	R	RSFO	W8-12	48	X	48																16.0															WATCH FOR ICE ON BRIDGE			
242.685	R	RSFO	EG-242	90	X	60																		37.5														EXIT 242		
242.834	R	RSFO	E-242 G1-1	114	X	30 114 X 174																	23.75 137.8																EXIT 242 ROUTE 7 (M1-5) AND ROUTE 261 (M1-12) WIBAUX BAKER	
243.000	R	REPLACE	D10-3	12	X	48				6.0	3.0lb Steel U Post		4' Stl U - RP/M	4.0	3.0	12.0							4.0							36		1							MILE 243	
243.142	R	RSFO RSFO REMOVE	D5-1a D8-2P D9-10	144 X 60 66 X 18 30 X 30																		8.3	60.0																REST ARE NEXT RIGHT OPEN TOURIST INFORMATION	
243.599	M	REPLACE	R4-14	30	X	24				13.5	4" Treated Wood Pole		7' Std - Inters	2.0	3.0	12.0							5.0 5.0		12							1								AUTHORIZED VEHICLES ONLY AUTHORIZED VEHICLES ONLY
243.718	R	RSFO	E-242 G1-2 D9-7 D9-6	114 X 30 114 X 168 30 X 30 30 X 30																		6.3 6.3	23.75 133															  	EXIT 242 ROUTE 7 (M1-5) AND ROUTE 261 (M1-12) WIBAUX BAKER 1 MILE GAS PUMP SYMBOL FOOD SYMBOL	
244.000	R	REPLACE	D10-3	12	X	48				6.0	3.0lb Steel U Post		4' Stl U - RP/M	4.0	3.0	12.0							4.0							36		1							MILE 244	
MILE 242 WB ON-RAMP																																								
241.758	R	REPLACE	D13-3 LA-1	48	X	30 24 X 12				10.0	5" Treated Wood Pole		7' Std - Inters	3.6	3.5	16.0							10.0 2.0		16							X	1							FREEWAY ENTRANCE ENTERING CNOTROLLED ACCESS HIGHWAY
MILE 242 WB OFF-RAMP																																								
242.460	R	REPLACE	R3-1b	36	X	48				6.0	5" Treated Wood Pole		7' Std - Inters	4.0	3.5	15.5							12.0		16							X	1							NO RIGHT TURN
242.460	R	REPLACE	R6-1L R6-1R R5-1	36 X 12 36 X 12 36 X 36						6.0	5" Treated Wood Pole		7' Std - Inters	4.1	3.5	15.5							3.0 3.0 9.0		16						X	1								ONE WAY DO NOT ENTER
242.465	L	REPLACE	R6-1L R6-1R R5-1	36 X 12 36 X 12 36 X 36						6.0	5" Treated Wood Pole		7' Std - Inters	4.1	3.5	15.5							3.0 3.0 9.0		18						X	1								ONE WAY DO NOT ENTER
242.473	R	REPLACE	R1-1 LA-2	48 X 48 24 X 12						10.0	3.5" Tubular Stl-Round		7' Std - Inters	5.1	3.0	14.0							13.3 2.0				128					1	1						 	STOP LEAVING CONTROLLED ACCESS HIGHWAY
242.527	L	REPLACE	R5-1a	42	X	30				10.0	4" Treated Wood Pole		7' Std - Inters	2.5	3.0	14.5							8.8		16							1								WRONG WAY
3										DESIGNED BY	AJH	05/01/2026	SIGNING PLANS									WIBAUX - EAST & WEST (WB)											IM 94-6(71)231							
2										REVIEWED BY	JDM	05/01/2026																												
1										CHECKED BY	JDM	05/01/2026	WIBAUX COUNTY																				UPN # 10230000							

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES														ADDITIONAL INFORMATION						
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)			STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS	
													MOUNTING HEIGHT	SIGN HEIGHT+GAPS (ABOVE MOUNTING HEIGHT)	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)						SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	6" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE			
				W	X	H										X	Y	Z																				
242.527	R	RSFO	G1-3 D9-3A M6-1A R5-1A	84 X 48 24 X 24 21 X 15 42 X 30																4 2.2 8.8		28.0													WIBAUX BAKER CAMPER SYMBOL BLUE LEFT ARROW WRONG WAY			
242.554	R	REPLACE	G1-4	84 X 42					20.0	4.0" Tubular Stl-Round		7' Std - Inters	3.5	3.0	14.0							24.5					132				1		1				HISTORIC DISTRICT	
242.559	L	USE AS IS																																		LODGING 1 MILE		
242.589	R	REPLACE	W3-1A	48 X 48					20.0	3.5" Tubular Stl-Round		- Inters tate	5.7	3.0	16.0							16.0					146				1	1					STOP AHEAD	
WEIGH STATION																																						
240.499	R	REPLACE	R6-1L R5-1	36 X 12 36 X 36					10.0	5" Treated Wood Pole		7' Std - Inters	4.1	3.5	16.5																X	1						ONE WAY DO NOT ENTER
240.500	R	REPLACE	R6-1R R5-1	36 X 12 36 X 36					10.0	5" Treated Wood Pole		7' Std - Inters	4.1	3.5	16.5																X	1						ONE WAY DO NOT ENTER
240.549	R	REPLACE	R5-1a	42 X 30					10.0	4" Treated Wood Pole		7' Std - Inters	2.5	3.0	14.5						8.8		16										1					WRONG WAY
242.550	R	REPLACE	R5-1a	42 X 30					10.0	4" Treated Wood Pole		7' Std - Inters	2.5	3.0	14.5						8.8		16									1						WRONG WAY
240.565	R	REPLACE	R2-1	36 X 48					10.0	5" Treated Wood Pole		7' Std - Inters	4.0	3.0	16.0						12.0		16								X	1						SPEED LIMIT 15

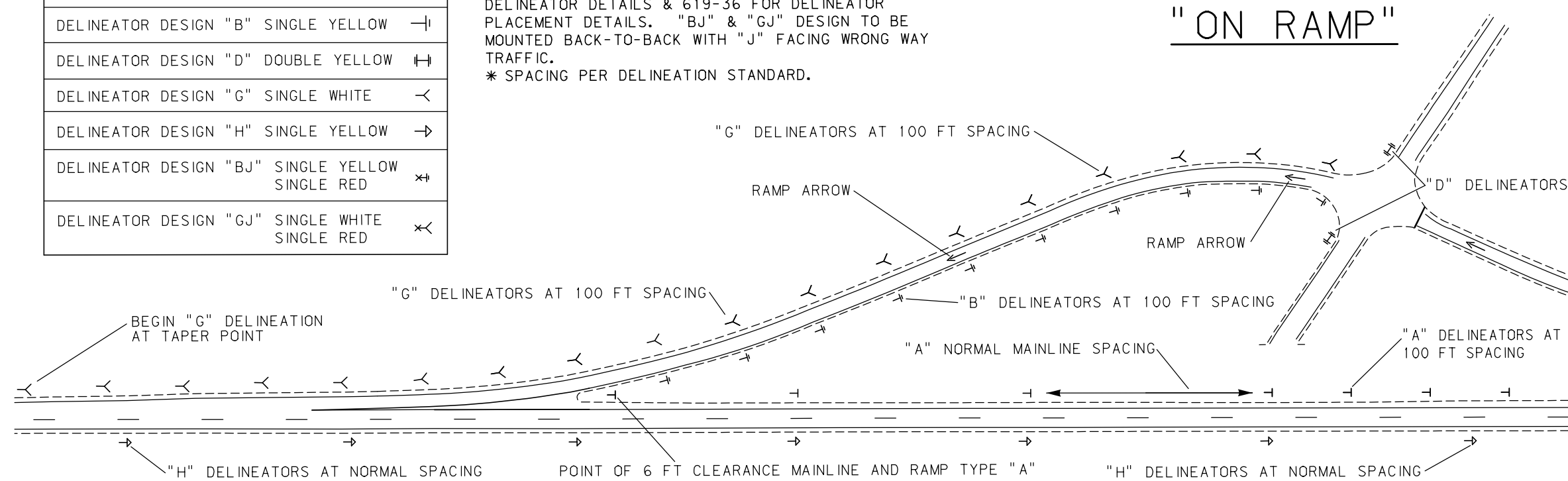
RAMP DELINEATION DETAIL



LEGEND

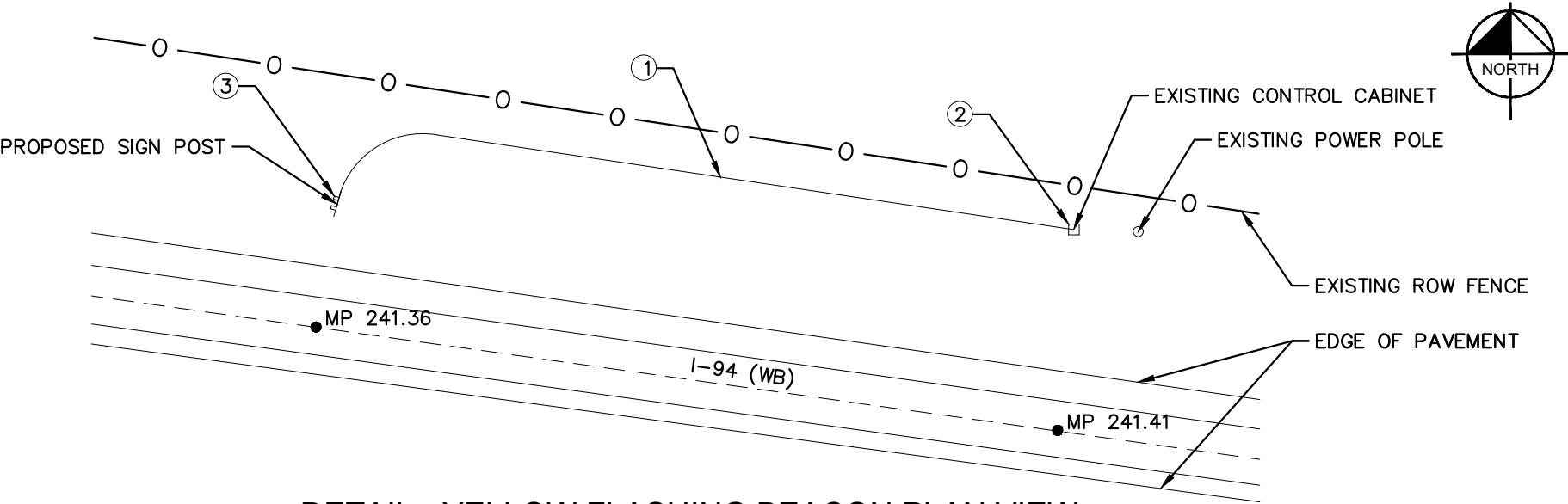
DELINEATOR DESIGN "A" SINGLE WHITE	→
DELINEATOR DESIGN "B" SINGLE YELLOW	→
DELINEATOR DESIGN "D" DOUBLE YELLOW	⇄
DELINEATOR DESIGN "G" SINGLE WHITE	←
DELINEATOR DESIGN "H" SINGLE YELLOW	→
DELINEATOR DESIGN "BJ" SINGLE YELLOW SINGLE RED	×→
DELINEATOR DESIGN "GJ" SINGLE WHITE SINGLE RED	×←

NOTE:
ALL DELINEATORS AT 6 FT CLEARANCE FROM EDGE OF PAVEMENT. SEE DETAILED DRAWING 619-34 FOR DELINEATOR DETAILS & 619-36 FOR DELINEATOR PLACEMENT DETAILS. "BJ" & "GJ" DESIGN TO BE MOUNTED BACK-TO-BACK WITH "J" FACING WRONG WAY TRAFFIC.
* SPACING PER DELINEATION STANDARD.



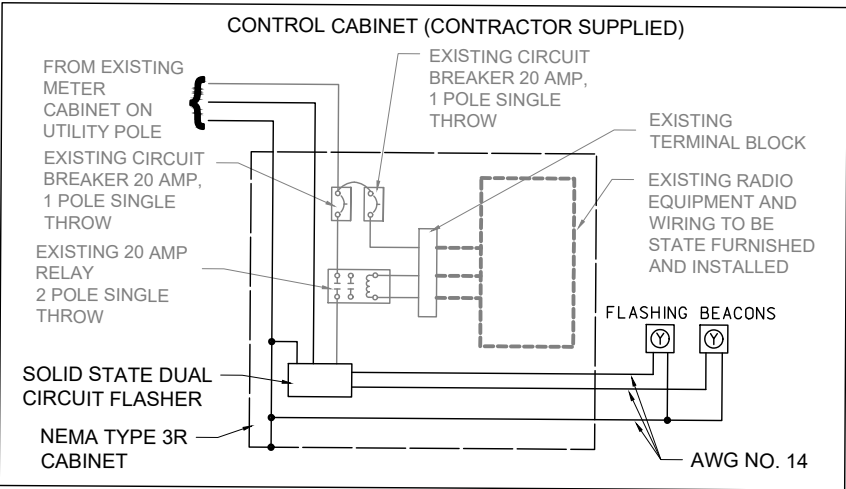
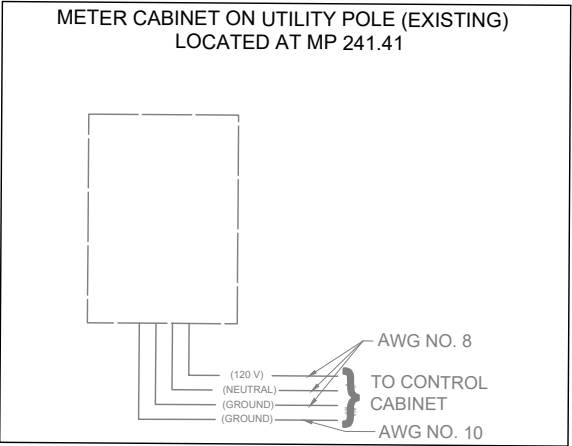
SUMMARY
ELECTRICAL QUANTITIES

CONDUIT-PLASTIC 1 1/2 IN	350	LINEAR FT.
CABLE-COPPER 3 AWG12-600V	410	LINEAR FT.
CONDUCTOR-COPPER AWG10-600V	410	LINEAR FT.
MODIFY CONTROLLER	1	EACH
SIG-TRF 1 COL-1 WAY 12 - YELLOW	2	EACH
CONDUIT-STEEL 1 1/2 IN RIGID	60	LINEAR FT.

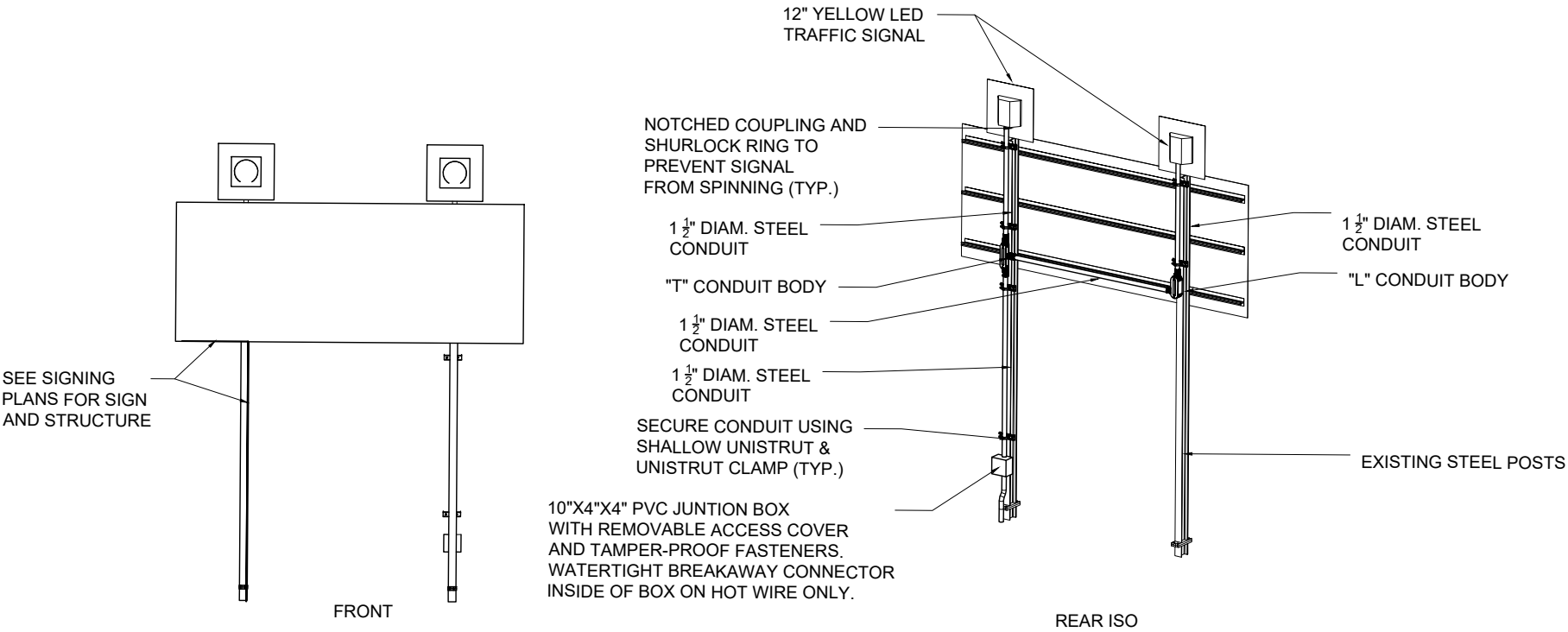


DETAIL - YELLOW FLASHING BEACON PLAN VIEW
(no scale)

DETAIL - CONTROL CABINET
(no scale)



DETAIL - BEACON MOUNT
(no scale)



- NOTE:
- ① INSTALL CONDUIT-PLASTIC 1 1/2 UNDERGROUND AND CONDUIT STEEL 1 1/2 IN ABOVE GROUND, WITH 3 NO. 14 AWG AND 1 NO. 10 AWG COPPER WIRE.
 - ② MODIFY THE EXISTING CONTROL UNIT TO ADD SOLID STATE DUAL CIRCUIT FLASHER.
 - ③ INSTALL YELLOW FLASHING BEACONS TO POSTS.

ASSOCIATED PROJECT AGREEMENT NUMBERS	
P.E.	IM 94-6(71)231

BRIDGE IDENTIFICATION	
MDT STR ID	NBI NUMBER
02091	I00094242+02642

MONTANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS AND QUANTITIES

FEDERAL AID PROJECT IM 94-6(72)231

WIBAUX - EAST & WEST (W.B.)

WIBAUX COUNTY

SCALES SHOWN ON BRIDGE PLANS SHEETS
ARE FOR HALF SIZE (11X17) PRINTS
FULL SIZE PRINTS ARE APPROXIMATELY TWICE
ORIGINAL SCALE

LIST OF DRAWINGS

SHEET NO.	DWG. NO.	SHEET TITLE
<i>B1</i>	<i>21225</i>	<i>LIST OF DRAWINGS</i>
<i>B2</i>	<i>21226</i>	<i>GENERAL NOTES & BRIDGE DECK REPAIRS</i>
<i>B3</i>	<i>21227</i>	<i>REVISE CONCRETE BARRIER RAIL - BR</i>
<i>B4</i>	<i>21228</i>	<i>REVISE CONCRETE BARRIER RAIL DETAILS</i>
<i>B5</i>	<i>21229</i>	<i>BARRIER REINFORCING STEEL PLACEMENT DIAGRAM</i>

ESTIMATED BRIDGE PLAN QUANTITIES

ESTIMATED BRIDGE PLAN QUANTITIES											
MDT STR ID	FEATURE INTERSECTED	GENERAL LAYOUT DRAWING NUMBER	REMOVE GUARD ANGLE (LN.FT.)	TRANSVERSE DECK GROOVING (YD²)	BRIDGE DECK MILLING (YD²)	* CLASS A BRIDGE DECK REPAIR (YD²)	* CLASS B BRIDGE DECK REPAIR (YD²)	** ESTIMATED CONCRETE - CLASS OVERLAY (YD³)	CONCRETE - CLASS OVERLAY (YD²)	CONCRETE - CLASS OVERLAY-FIXED (UNIT)	REVISE CONCRETE BARRIER RAIL - BR (LN.FT.)
02091	BEAVER CREEK	10600	83.0	1256.7	1316.5			73.5	1323.4	500	577.0
PROJECT TOTAL			83.0	1256.7	1316.5	5.0	5.0	73.5	1323.4	500	577.0

* NOTE: Specific Class A & B Deck Repair areas are not identified in the contract. Deck Repair quantities are provided for contingency. The Project Manager will identify and authorize any needed deck repair.

**** NOTE:** Estimated overlay concrete volume will not be measured for payment. The quantities shown will be used to determine overrun quantities for payment if applicable.

SHEET NO.
B1

LIST OF DRAWINGS

[illegible]

PN NUMBER
10230000

DRAWING NO.
21225

GENERAL NOTES

WORK SITE VERIFICATION:

Plans were prepared from original drawings and as-built drawings. Survey information was not collected for this project and existing structure dimensions may vary from those shown on the drawings. Field verify dimensions before ordering materials. Notify the Project Manager and provide recommended plan revisions if the existing structure does not represent what is shown on the plans.

Obtain approval of shop plans from the State of Montana, Department of Transportation before beginning fabrication. If the dimensions and details of the existing structure are not as shown on the plans, vary construction as necessary to best suit existing conditions and the nature of the intended work.

SPECIFICATIONS:

The current version of the Standard and Supplemental Specifications for Road and Bridge Construction, adopted by the Montana Department of Transportation, applies.

The design was prepared in accordance with AASHTO LRFD Bridge Design Specifications, Ninth edition - 2020.

NEW REINFORCING STEEL:

Unless specified otherwise on the drawings, the minimum concrete cover measured from the face of the concrete to the face of any reinforcing steel is 2" except as noted below:

Bottom of Slab	1"
Top of Slab	2" (Existing)
Bottom of Abutment Caps	3"
Concrete Barriers and Curbs	1 ½"

Concrete cover to any tie bar is ½" less than what is listed above.

Use new deformed type reinforcing steel meeting the requirements of AASHTO M 31 Grade 60.

The suffix "E" denotes epoxy coated reinforcing steel.

Minimum Lap Splice Length:

- #4E = 2'-11"
- #5E = 3'-8"
- #6E = 4'-5"

4" Additional per lap splice has been provided for construction tolerances.

EXISTING REINFORCING STEEL (To Remain):

Remove hardened concrete and all other bond inhibiting materials from the existing reinforcing steel before placing fresh concrete.

Replace existing reinforcing steel that is damaged during construction at no additional cost to the state. A bar is considered damaged if less than 75% of the bar diameter remains.

Replace all existing reinforcing steel that has corroded to the point that less than 75% of the bar diameter remains.

Repair damaged epoxy coating on the existing reinforcing steel with a coating that is specifically designed for repairing epoxy coated reinforcing steel.

Include the cost of cleaning existing reinforcing, replacing corroded reinforcing, and repairing epoxy coating in associated items of work.

GUARD ANGLE REMOVAL:

Include all costs associated with removal and replacement of asphalt and subgrade necessary to perform guard angle removal in the unit price bid for Remove Guard Angle.

ACRONYMS AND ABBREVIATIONS:

N.F. Denotes Near Face.

F.F. Denotes Fill Face.

E.F. Denotes Each Face.

Cl. Denotes Clear Cover

BRIDGE DECK REPAIR:

See the Standard Specifications for allowable deck repair concrete options.

Field measured deck repair quantities may vary from the quantities shown on plans.

MATERIALS:

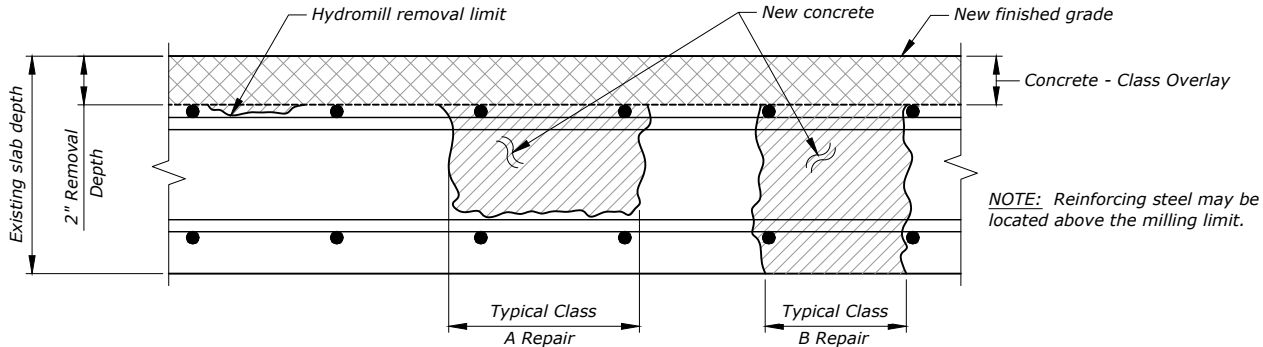
Standard Specifications, Division 700 - Materials controls unless specified otherwise.

TABLE OF DECK TREATMENTS

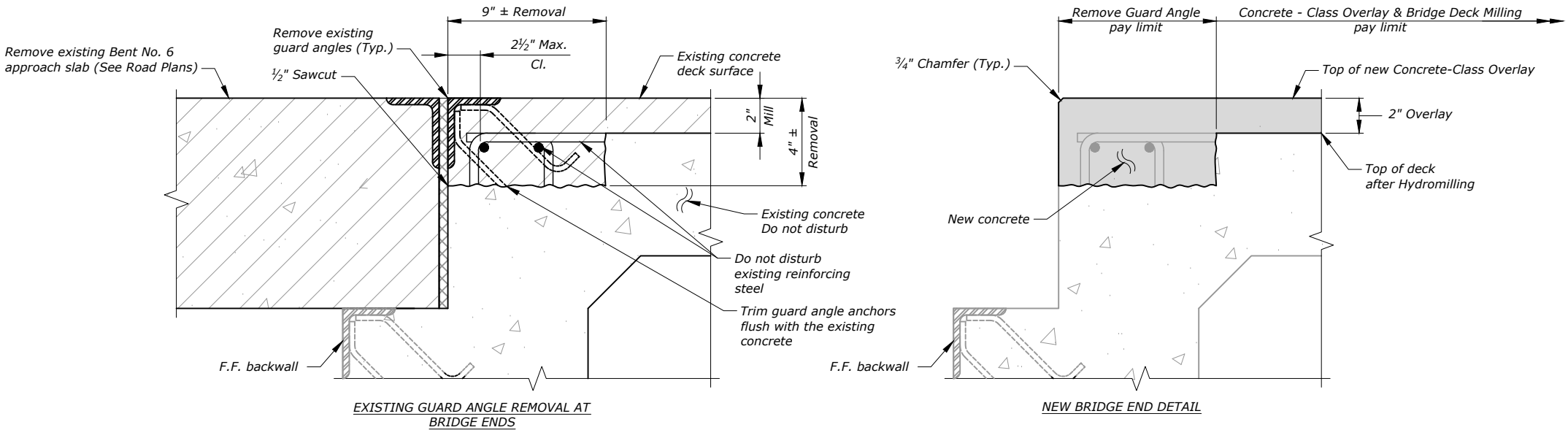
MDT I.D. STRUCTURE NUMBER	STRUCTURE NAME	DECK TREATMENT	DEPTH REMOVAL	MINIMUM OVERLAY THICKNESS	TOTAL GRADE RAISE
02091	BEAVER CREEK	CONCRETE CLASS OVERLAY (THICK)	2"	2"	0"

BRIDGE WORK SUMMARY

MDT STR ID	REMOVE GUARD ANGLE	TRANSVERSE DECK GROOVING	BRIDGE DECK MILLING	BRIDGE DECK REPAIR	CONCRETE OVERLAY	REVISE CONCRETE BARRIER RAIL - BR
02091	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓



BRIDGE DECK REPAIR AND CONCRETE OVERLAY DEFINITION



REMOVE GUARD ANGLE

NOTE: If two transverse reinforcing bars are not present within 3" of top of the slab, place new epoxy coated #4 transverse bars as necessary so there are two bars within the repair area.

NOTE: Include all costs associated with guard angle removal and asphalt or subgrade removal and replacement in the unit price bid for Remove Guard Angle.

SHEET NO.
B2

GENERAL NOTES & BRIDGE
DECK REPAIRS

PROJECT NAME
WIBAUX - EAST & WEST (W.B.)

FEDERAL AID PROJECT
IM 94-6(72)231

REVISIONS
REVISED
REVISED
REVISED
REVISED
CHECKED
DRAWN
DESIGNED

MONTANA
Department of Transportation
BRIDGE BUREAU

UPN NUMBER
10230000
DRAWING NO.
21226

MDT STRUCTURE ID
02091

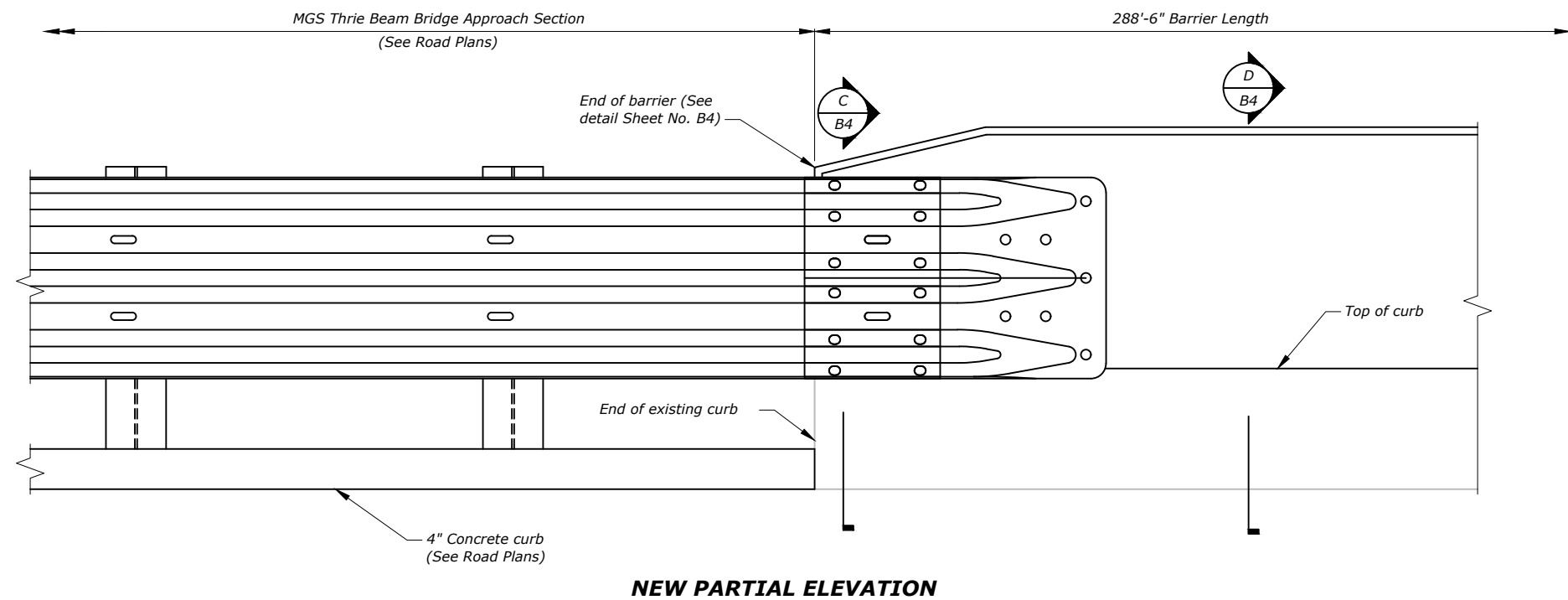
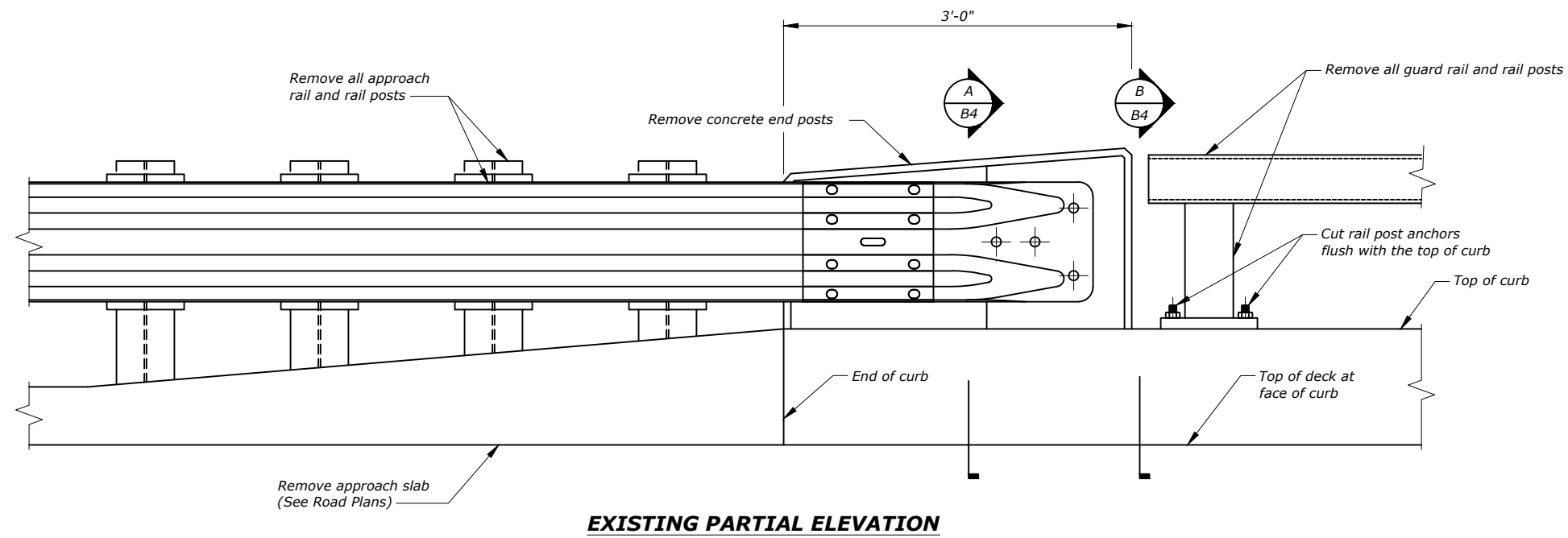
COUNTY
WIBAUX

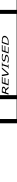
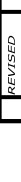
SCALE: No Scale

102300000BRREH001.dwg \SUM001
7/21/2026 6:32:14 AM

SHEET NOTES:

1. The details shown are typical for all bridge corners.

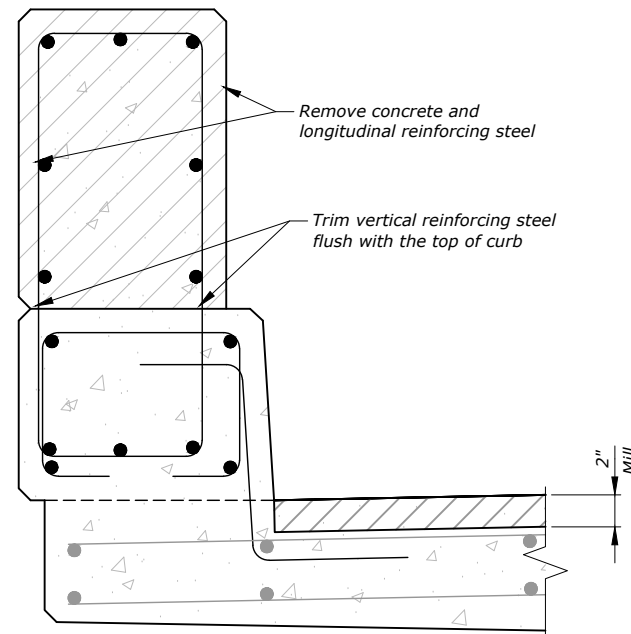


 MONTANA Department of Transportation  BRIDGE BUREAU										REVISED			REVISED			REVISED			FEDERAL AID PROJECT			PROJECT NAME			REVISE CONCRETE BARRIER		
UPN NUMBER										REVISED			REVISED			REVISED			IM 94-6(72)231			WIBAUX - EAST & WEST (W.B.)			RAIL - BR		
DRAWING NO.										CHECKED			DRAWN			DESIGNED			COUNTY			MDT STRUCTURE ID			SCALE: 3/4" = 1'-0"		
102300000										J.E.S.			D.G.G.			S.A.W.			WIBAUX			02091					
212227										05-29-26			12-10-25			03-20-26											
7/21/2026 6:32:15 AM										102300000BRREH001.dwg \ REFH001																	
SHEET NO.														B3													

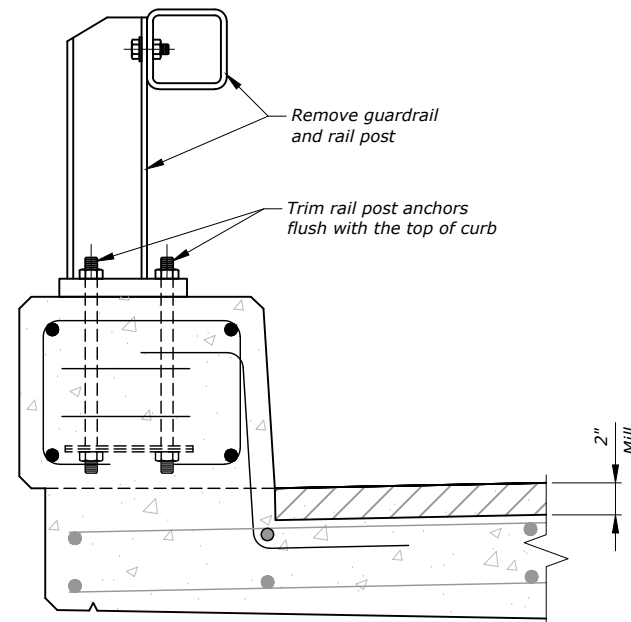
~~ADVERTISED COPY~~

SHEET NOTES:

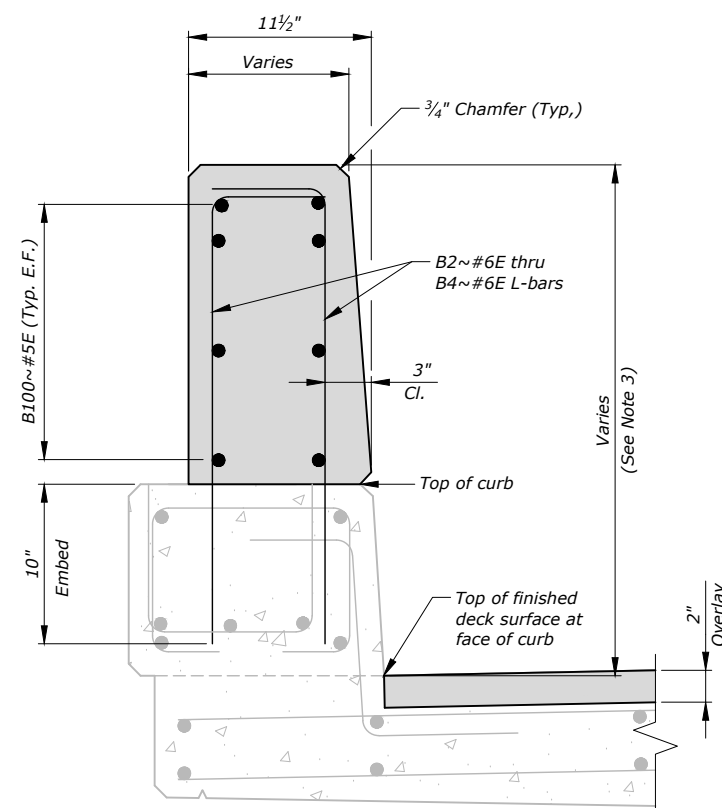
1. *Anchor all #6E L-bars into existing curb using an epoxy adhesive anchoring system (See Special Provisions).*
2. *Coat the trimmed end of the rail post anchors with a cold galvanizing spray.*
3. *Match the slope of the new concrete barrier with the slope of the existing curb.*



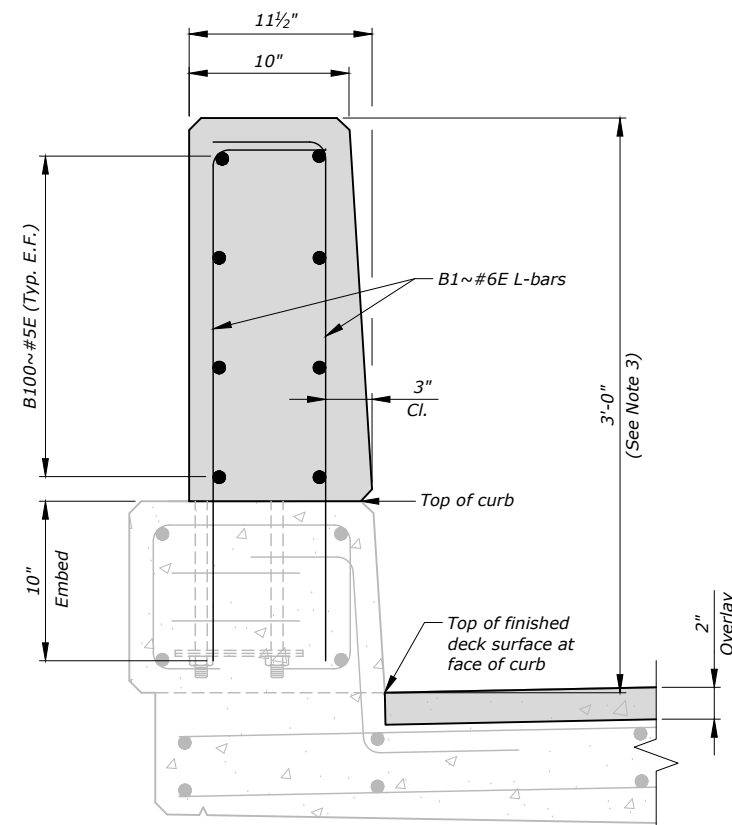
EXISTING CONCRETE ENDPOST



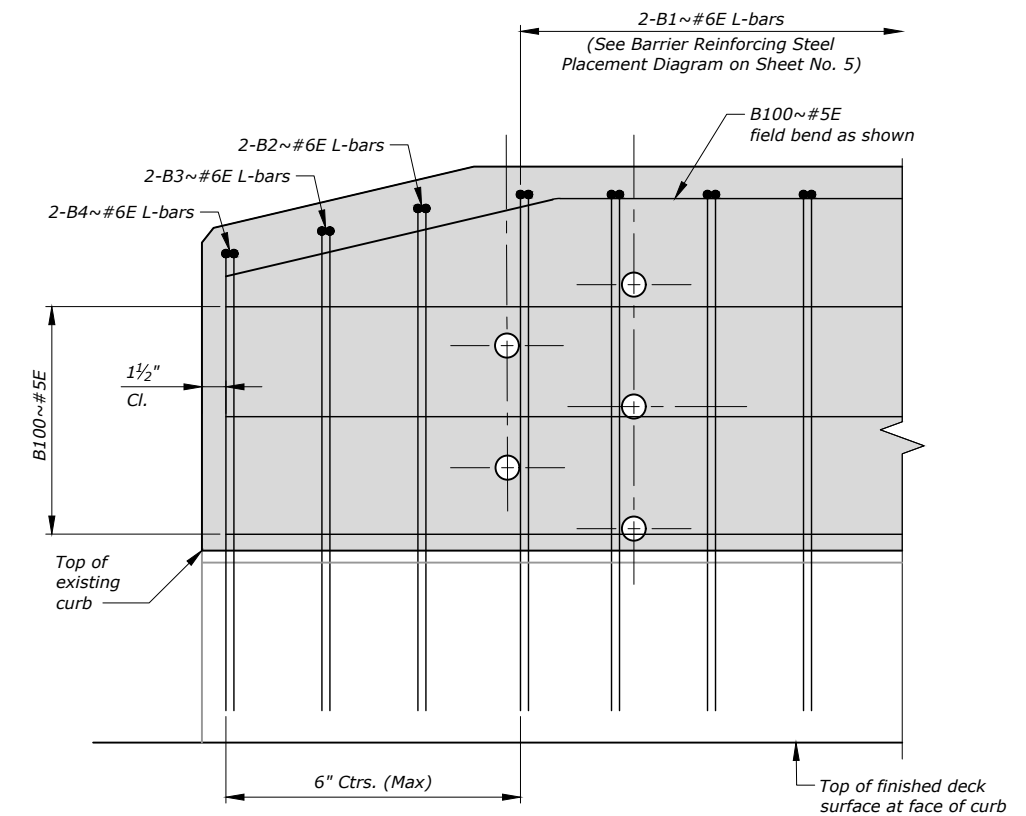
EXISTING GUARDRAIL ON CURB



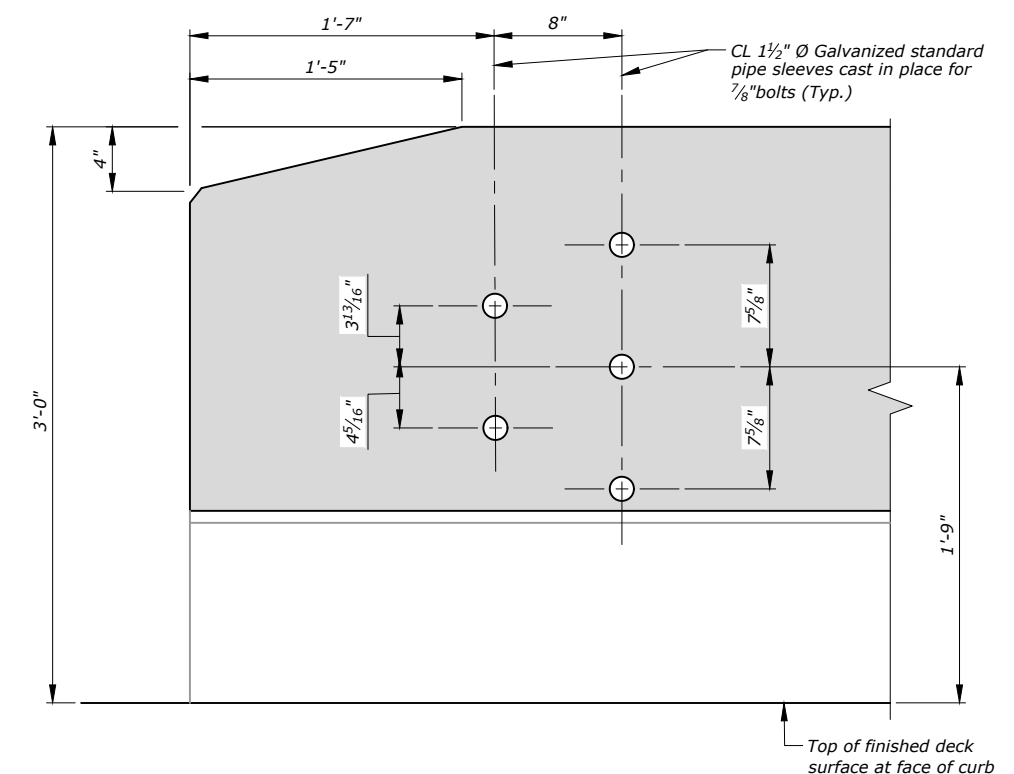
NEW BARRIER AT END OF CURB



D
P2 **NEW BARRIER ON CURB**



NEW BARRIER END DETAIL



NEW BARRIER END CONNECTION DETAIL
(Typical for approach and departure ends)

SHEET NO.
B4

REVISE CONCRETE BARRIER RAIL DETAILS

SCALE: 1" = 1'-0"

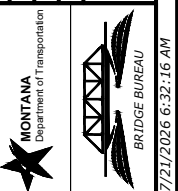
PROJECT NAME
WIBAUX - EAST & WEST (W.B.)

02091

IM 94-6(72)231

WIBAUX

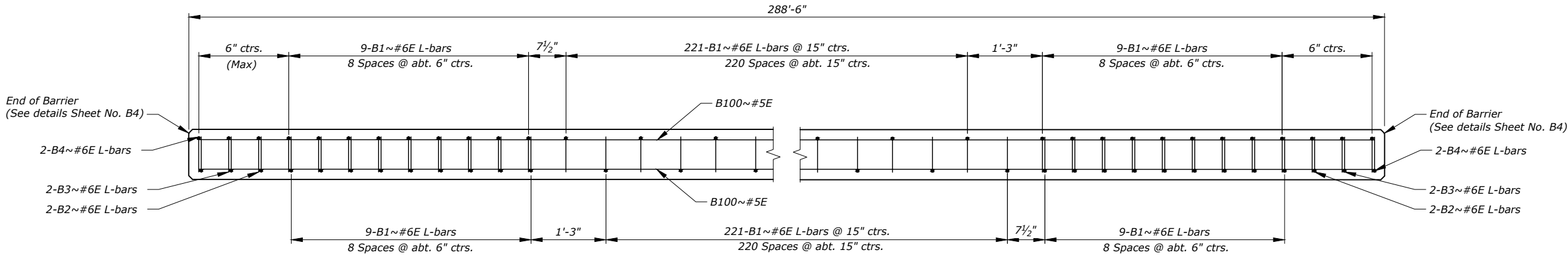
REVISED					
REVISED					
REVISED					
CHECKED	J.E.S.	05-29-26			
DRAWN	D.G.G.	12-10-25			
DESIGNED	S.A.W.	03-20-26			
10230000BRRHEH001.dwg REH002					



UPN NUMBER	10230000
DRAWING NO.	21228

SHEET NOTES:

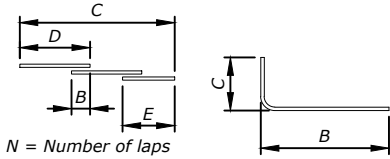
1. Barrier reinforcing shown is typical for left and right sides of structure.



BARRIER REINFORCING STEEL PLACEMENT DIAGRAM
No Scale

BILL OF REINFORCING STEEL

(ONE STRUCTURE ONLY)
(ALL DIMENSIONS ARE OUT TO OUT)



TYPE 27											
Mark	Size	No.	Type	Length	A	B	C	D	E	G	N
B100	#5E	12	27	310'-4"		4'-5"	288'-3"	60'-0"	10'-4'		5
B1	#6E	958	37	3'-3 1/2"		2'-8 1/2"	0'-7"				
B2	#6E	8	37	3'-2 1/2"		2'-7 1/2"	0'-7"				
B3	#6E	8	37	3'-1"		2'-6"	0'-7"				
B4	#6E	8	37	3'-0"		2'-5"	0'-7"				

SHEET NO.
B5

BARRIER REINFORCING STEEL
PLACEMENT DIAGRAM

SCALE: No Scale

PROJECT NAME
WIBAUX - EAST & WEST (W.B.)

MDT STRUCTURE ID
02091

FEDERAL AID PROJECT
IM 94-6(72)231

COUNTY
WIBAUX

REVISED
REVISED
REVISED
REVISED

CHECKED
DRAWN
DESIGNED

J.E.S.
D.G.G.
S.A.W.

05-29-26
12-10-25
03-20-26

10230000BRREH001.dwg \ REF003

MONTANA
Department of Transportation

BRIDGE BUREAU

UPN NUMBER
10230000

DRAWING NO.
21229

EMB. PROTECTOR
CROSS SECTIONS

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY
WIBAUX

PROJECT ID
IM 94-6(72)231

UPN
10230000

DESIGNED BY
A. BORSCHEL

04/2026

REVIEWED BY

CHECKED BY

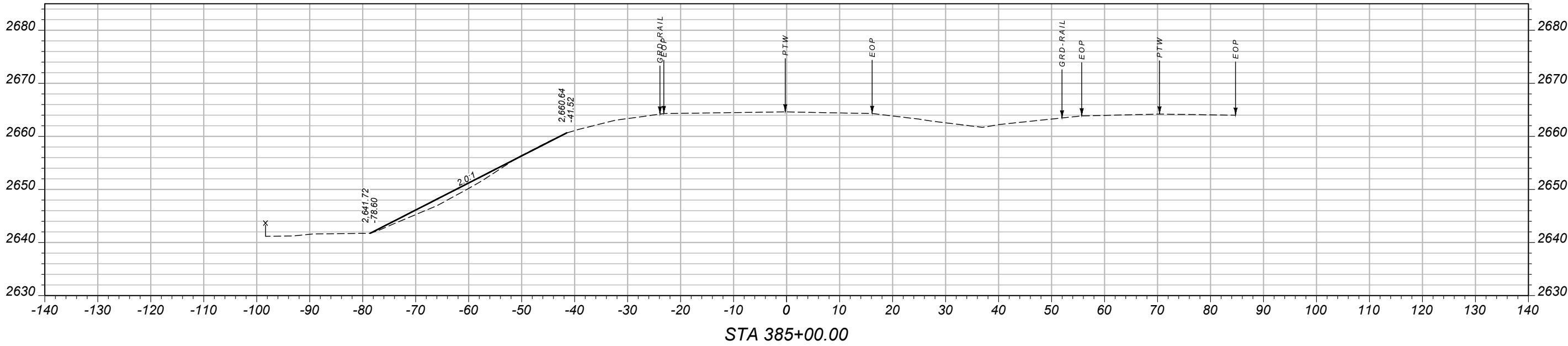
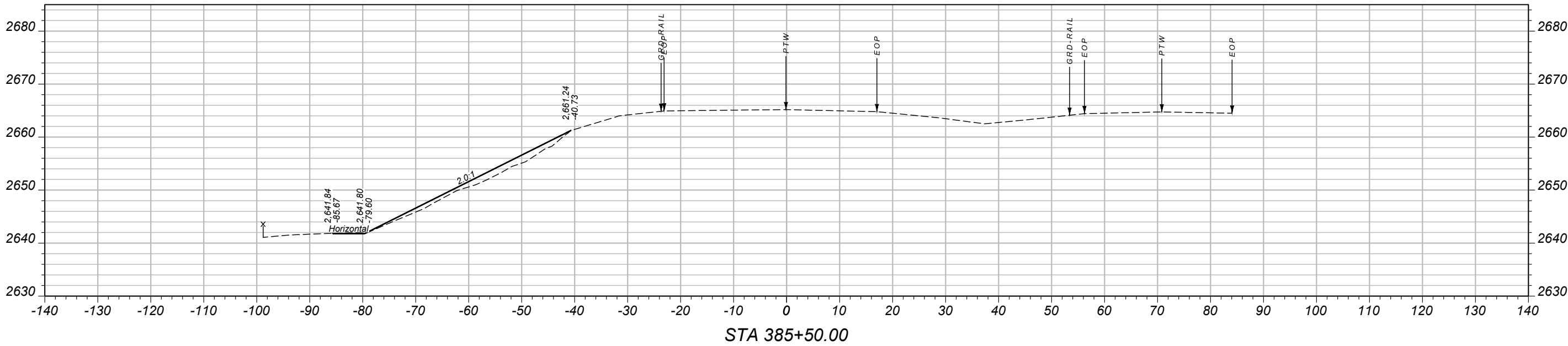
05/2026

10230000RDXSF001.DWG



CROSS SECTIONS

7/30/2026 4:30 PM



EMB. PROTECTOR
CROSS SECTIONS

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY
WIBAUX

PROJECT ID
IM 94-6(72)231

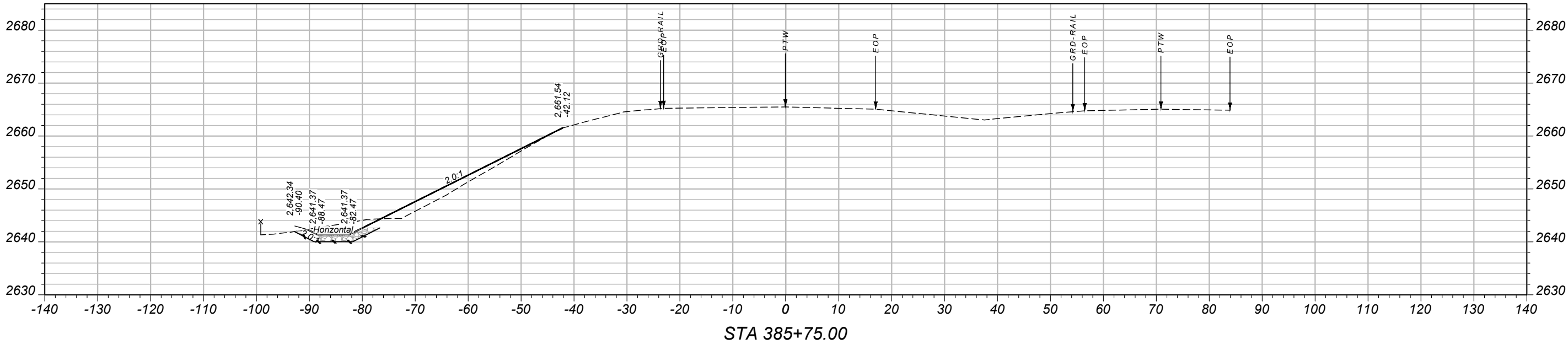
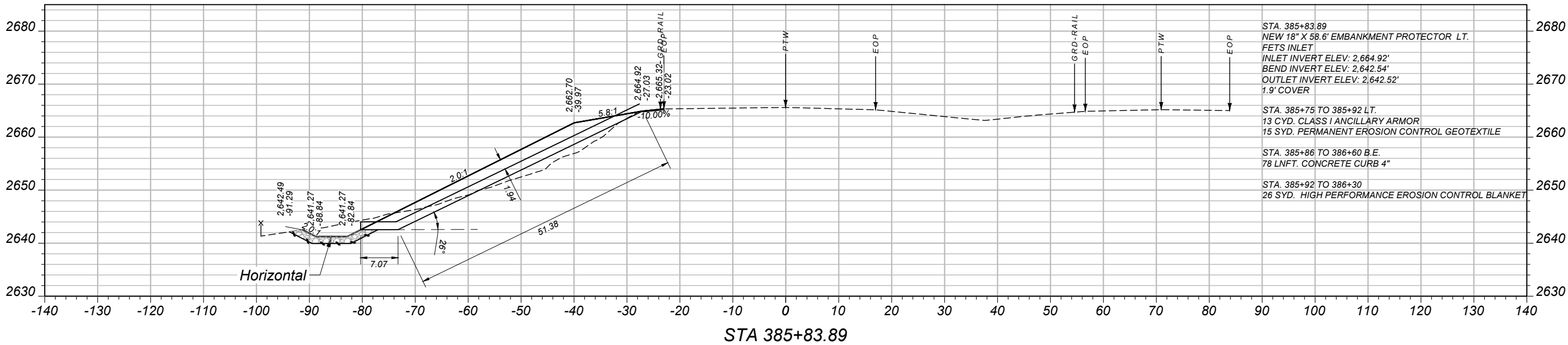
UPN
10230000

DESIGNED BY A. BORSCHEL	04/2026
REVIEWED BY	
CHECKED BY J. SOLIDAY	05/2026
10230000RDXSF001.DWG	



MONTANA
Department of Transportation

CROSS SECTIONS



EMB. PROTECTOR
CROSS SECTIONS

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY
WIBAUX

PROJECT ID
IM 94-6(72)231

UPN
10230000

DESIGNED BY
A. BORSCHEL

04/2026

REVIEWED BY

CHECKED BY

05/2026

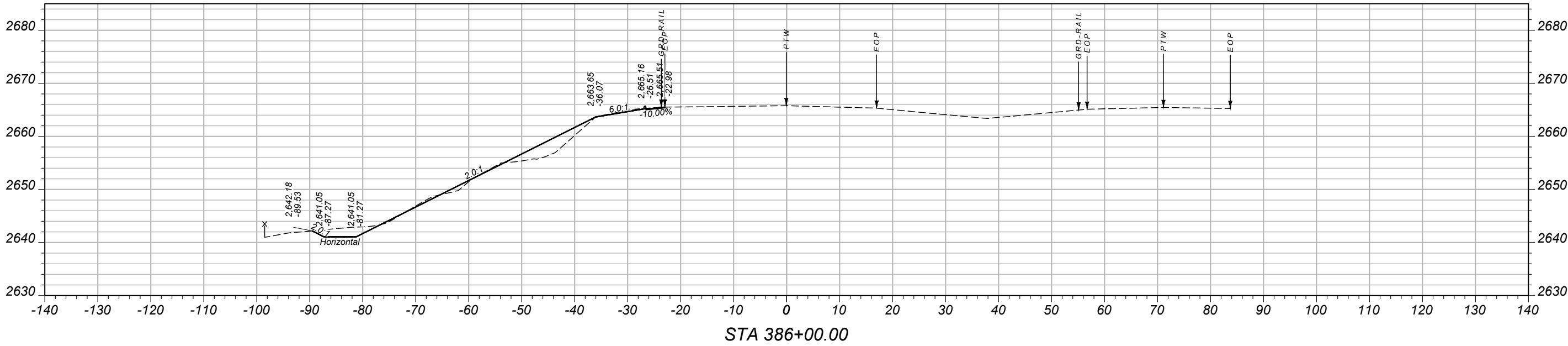
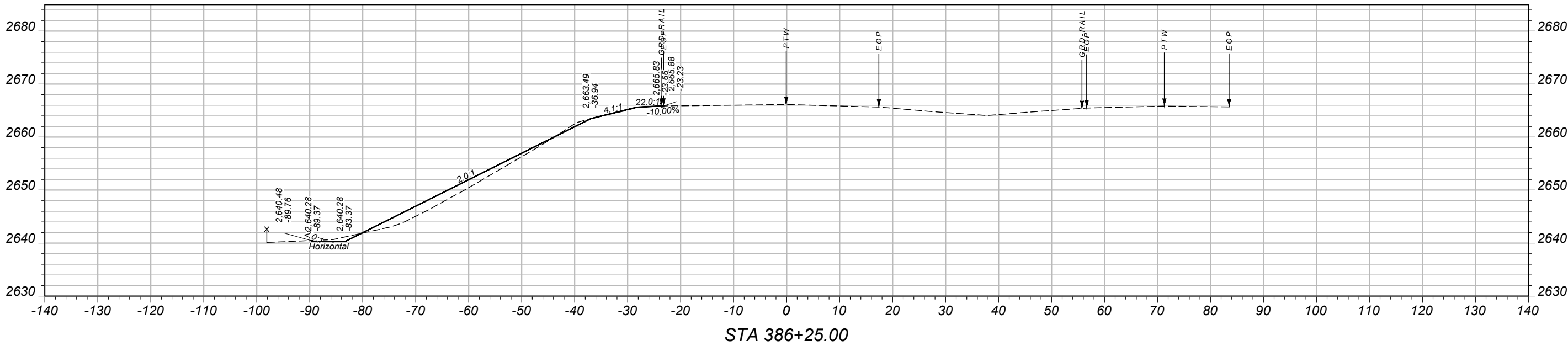
J. SOLIDAY

10230000RDXSF001.DWG



CROSS SECTIONS

7/30/2026 4:30 PM



EMB. PROTECTOR
CROSS SECTIONS

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY
WIBAUX

PROJECT ID
IM 94-6(72)231

UPN
10230000

DESIGNED BY
A. BORSCHEL

04/2026

REVIEWED BY

CHECKED BY

J. SOLIDAY

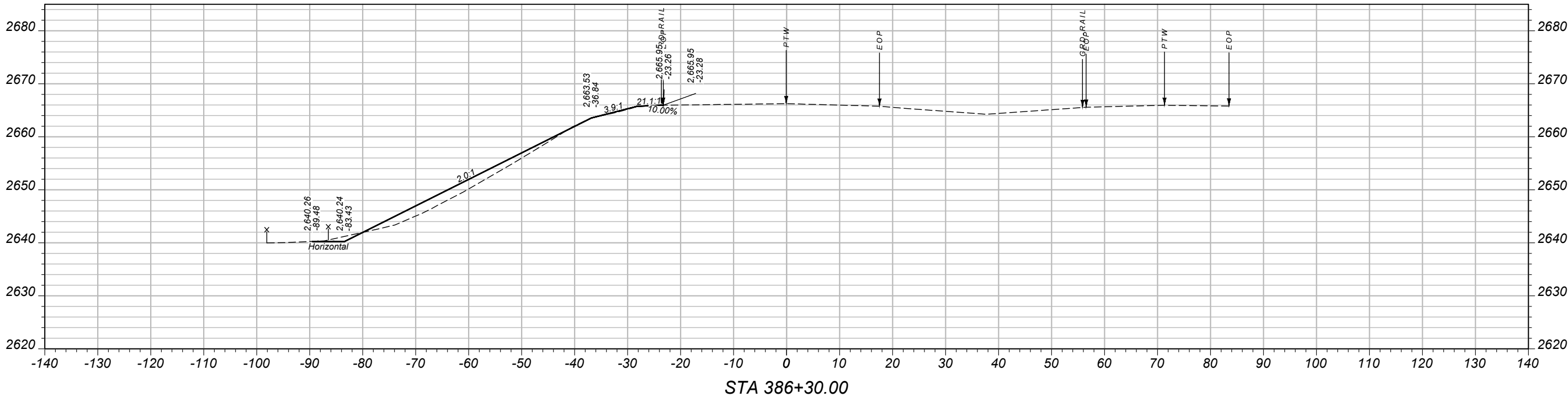
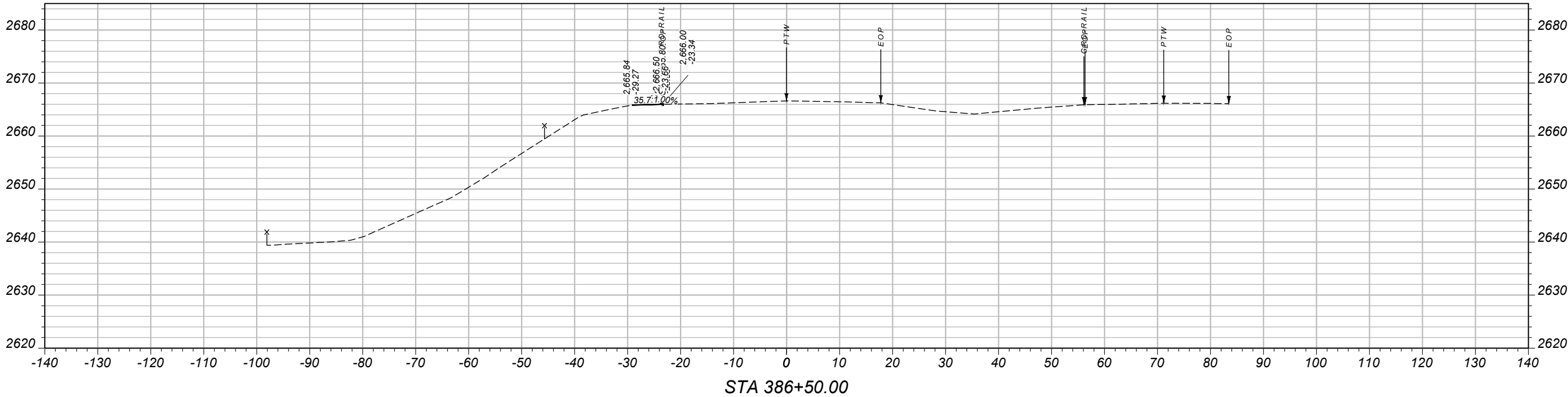
05/2026

10230000RDXSF001.DWG



CROSS SECTIONS

7/30/2026 4:30 PM



EMB. PROTECTOR
CROSS SECTIONS

PROJECT NAME
WIBAUX-EAST & WEST (WB)

COUNTY

WIBAUX

PROJECT ID

IM 94-6(72)231

UPN

10230000

DESIGNED BY

A. BORSCHEL

REVIEWED BY

CHECKED BY

J. SOLIDAY

10230000RDXSF001.DWG



CROSS SECTIONS

7/30/2026 4:30 PM

