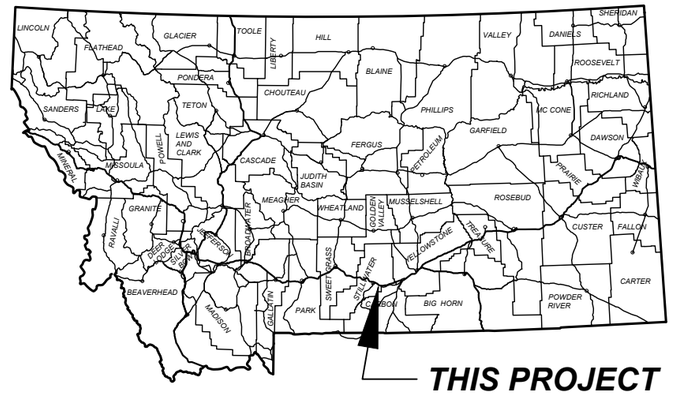
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT HSIP 421-1(13)5

PL. MIX SURF., GRADE, GRAVEL AND SEAL & COVER

SF 159 SE COLUMBUS SHLDR WID

STILLWATER COUNTY

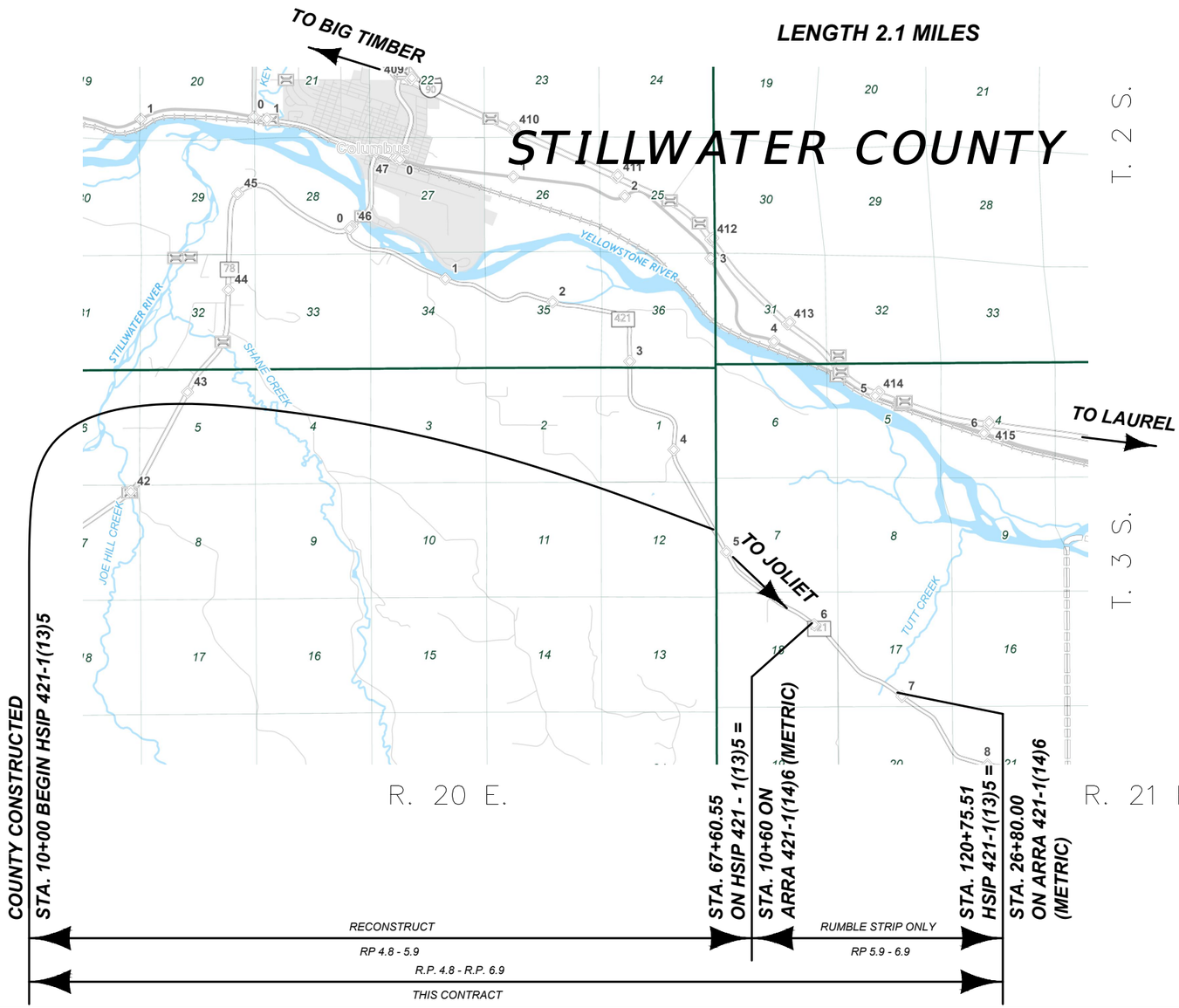
LENGTH 2.1 MILES

PROJECT DESIGN DATA

PRESENT	2024	A.D.T. =	950
LETTING	2025	A.D.T. =	980
DESIGN	2045	A.D.T. =	1850
		D.H.V. =	210
		TRUCKS =	9.9%
		V. =	50 MPH
		18 KIP ESAL'S =	54
		GROWTH RATE =	3.2%

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	HSIP 421-1(14)5
I.C.	
P.E.	HSIP 421-1(12)5

SURFACING SOURCES - CONTRACTOR FURNISHED



MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:

HIGHWAYS ENGINEER

MONTANA DAVID HOLIEN 20186PE LICENSED PROFESSIONAL ENGINEER

Signed by: David Holien 4351D89326494E2...

5/15/2025
DATE

SHEET NO. 1

TITLE SHEET

PROJECT NAME	SF 159 SE COLUMBUS SHLDR WID	
COUNTY	STILLWATER COUNTY	
PROJECT ID	HSIP 421-1(13)5	
UPN	9116000	
DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

MONTANA Department of Transportation

PLANS

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3750 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 4167 LBS. PER CUBIC YARD
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (S & C)	= 0.075 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

CLEARING AND GRUBBING

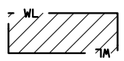
CLEAR AND GRUB TO CONSTRUCTION LIMITS. INCLUDE THE COST OF CLEARING AND GRUBBING IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.

UTILITIES

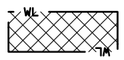
CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

WETLANDS

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



DELINEATED WETLAND AREAS



PERMANENT WETLAND IMPACTED AREAS

WETLAND DELINEATION TABLE

WETLAND DESIGNATION	STATION		WETLAND AREA (acres)		REMARKS
	FROM	TO	DELINEATED AREA	PERMANENT IMPACTED AREA	
WL1a	40+65	41+58	0.024	0.003	LT.
WL1b	41+10	41+35	0.018	0.002	RT.
TOTAL			0.04	0.01	

SOILS INFORMATION

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

BORING NUMBER

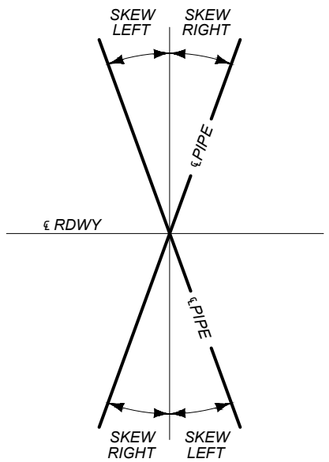


(GEOTECHNICAL BORING)

DO NOT DISTURB

WATER WELL 42' RIGHT OF STA. 52+92

SKEW DIAGRAM



SHEET NO.
2

NOTES

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

MONTANA Department of Transportation

PLANS

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CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	LOCATION AND DESCRIPTION
8+00.00	BOA	488,390.582	2,047,353.183	
10+00.00	POT	488,217.050	2,047,452.616	BEGIN RECONSTRUCT
26+48.00	TS	486,787.153	2,048,271.939	
28+40.00	SC	486,623.248	2,048,371.828	
31+05.82	CS	486,422.691	2,048,545.436	
32+97.82	ST	486,300.344	2,048,693.334	
50+92.28	PC	485,194.285	2,050,106.396	
58+11.39	PT	484,810.356	2,050,713.028	
62+39.15	PC	484,618.780	2,051,095.485	
65+87.03	PT	484,439.086	2,051,392.937	
67+60.55	POT	484,338.231	2,051,533.464	END RECONSTRUCT
72+00.00	EOA	484,081.681	2,051,890.930	

ALIGNMENT - COLUMBUS_MAINLINE_DA

APPROACHES (FOR INFORMATION ONLY)

STATION	TYPE	linear feet				EXISTING SURF.	feet		PROPOSED SURFACE	AGGREGATE			BITUMINOUS MATERIAL		sq. yards	REMARKS
		WIDTH	RADIUS #		LENGTH		PMS THK.	CAC THK.		sq. yards	tons	cu. yards	tons	gallons	sq. yards	
			LEFT	RIGHT						COVER TYPE 1	COMMERCIAL PLANT MIX-PG MISC	CRUSHED AGG. COURSE	SEAL CHFRS-2P	EMULS. ASPHALT TACK	AGG. TREAT.	
15+00	FARM FIELD	24	25	25	40.5		0.2	0.6	12' PMS & CAC TO LENGTH		8	32		4	153	FARM FIELD APPROACH RT.
15+00	FARM FIELD	24	25	25	40.5		0.2	0.6	12' PMS & CAC TO LENGTH		8	77		4	333	FARM FIELD APPROACH LT.
25+45	FARM FIELD	24	25	25	44.0	GRAVEL	0.2	0.6	12' PMS & CAC TO LENGTH		8	30		4	154	FARM FIELD APPROACH RT.
25+45	FARM FIELD	24	25	25	65.7		0.2	0.6	12' PMS & CAC TO LENGTH		8	47		4	212	FARM FIELD APPROACH LT.
26+70	PRIVATE	24	25	25	50.6	GRAVEL	0.2	0.6	PMS & CAC TO LENGTH		18	30		7	145	PRIVATE APPROACH LT.
29+62	PRIVATE	24	*	*	170.6	GRAVEL	0.2	0.6	PMS & CAC TO LENGTH		91	131		30	599	PRIVATE APPROACH LT. - JAWSMITH DR.
38+42	FARM FIELD	24	*	*	126.0	GRAVEL	0.2	0.6	12' PMS & CAC TO LENGTH		12	86		4	463	FARM FIELD APPROACH LT.
43+90	FARM FIELD	24	25	25	102.3		0.2	0.6	12' PMS & CAC TO LENGTH		8	56		4	258	FARM FIELD APPROACH RT.
44+80	PRIVATE	24	25	25	62.6	GRAVEL	0.2	0.6	PMS & CAC TO LENGTH		28	48		11	227	PRIVATE APPROACH LT. - REALIGN
47+05	FARM FIELD	24	25	25	72.3	GRAVEL	0.2	0.6	12' PMS & CAC TO LENGTH		8	40		4	191	FARM FIELD APPROACH RT. - RELOCATE
49+76	PRIVATE	24	*	*	168.9	GRAVEL	0.2	0.6	SEE DETAIL		75	234		32	1,272	PRIVATE APPROACH RT. - MORNING GLORY
53+75	PRIVATE	24	25	25	39.0		0.2	0.6	PMS & CAC TO LENGTH		20	33		8	158	PRIVATE APPROACH LT.
TOTAL										~	292	844	~	116	4,165	

ALL RADII MEASURED TO EDGE OF SHOULDER.
* SEE DETAIL (MEASURED ON CAD)

SHEET NO. 3

CENTERLINE COORDINATE TABLE AND APPROACH TABLE

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID

COUNTY STILLWATER COUNTY

PROJECT ID HSIP 421-1(13)5

UPN 9116000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

MONTANA Department of Transportation

PLANS

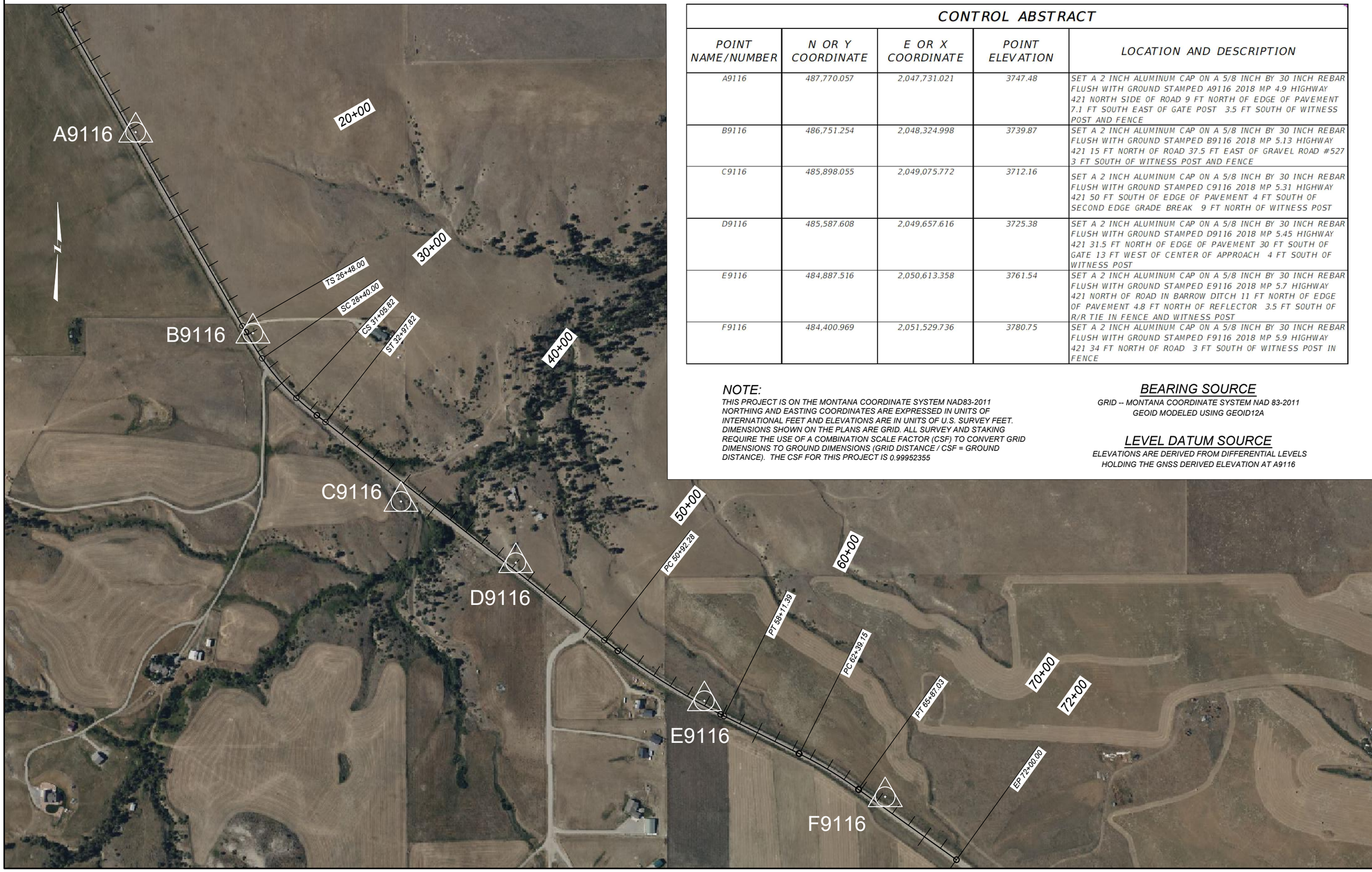
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CONTROL DIAGRAM

SCALE: N/A



CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
A9116	487,770.057	2,047,731.021	3747.48	SET A 2 INCH ALUMINUM CAP ON A 5/8 INCH BY 30 INCH REBAR FLUSH WITH GROUND STAMPED A9116 2018 MP 4.9 HIGHWAY 421 NORTH SIDE OF ROAD 9 FT NORTH OF EDGE OF PAVEMENT 7.1 FT SOUTH EAST OF GATE POST 3.5 FT SOUTH OF WITNESS POST AND FENCE
B9116	486,751.254	2,048,324.998	3739.87	SET A 2 INCH ALUMINUM CAP ON A 5/8 INCH BY 30 INCH REBAR FLUSH WITH GROUND STAMPED B9116 2018 MP 5.13 HIGHWAY 421 15 FT NORTH OF ROAD 37.5 FT EAST OF GRAVEL ROAD #527 3 FT SOUTH OF WITNESS POST AND FENCE
C9116	485,898.055	2,049,075.772	3712.16	SET A 2 INCH ALUMINUM CAP ON A 5/8 INCH BY 30 INCH REBAR FLUSH WITH GROUND STAMPED C9116 2018 MP 5.31 HIGHWAY 421 50 FT SOUTH OF EDGE OF PAVEMENT 4 FT SOUTH OF SECOND EDGE GRADE BREAK 9 FT NORTH OF WITNESS POST
D9116	485,587.608	2,049,657.616	3725.38	SET A 2 INCH ALUMINUM CAP ON A 5/8 INCH BY 30 INCH REBAR FLUSH WITH GROUND STAMPED D9116 2018 MP 5.45 HIGHWAY 421 31.5 FT NORTH OF EDGE OF PAVEMENT 30 FT SOUTH OF GATE 13 FT WEST OF CENTER OF APPROACH 4 FT SOUTH OF WITNESS POST
E9116	484,887.516	2,050,613.358	3761.54	SET A 2 INCH ALUMINUM CAP ON A 5/8 INCH BY 30 INCH REBAR FLUSH WITH GROUND STAMPED E9116 2018 MP 5.7 HIGHWAY 421 NORTH OF ROAD IN BARROW DITCH 11 FT NORTH OF EDGE OF PAVEMENT 4.8 FT NORTH OF REFLECTOR 3.5 FT SOUTH OF R/R TIE IN FENCE AND WITNESS POST
F9116	484,400.969	2,051,529.736	3780.75	SET A 2 INCH ALUMINUM CAP ON A 5/8 INCH BY 30 INCH REBAR FLUSH WITH GROUND STAMPED F9116 2018 MP 5.9 HIGHWAY 421 34 FT NORTH OF ROAD 3 FT SOUTH OF WITNESS POST IN FENCE

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 0.99952355

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011
GEOID MODELED USING GEOID12A

LEVEL DATUM SOURCE

ELEVATIONS ARE DERIVED FROM DIFFERENTIAL LEVELS HOLDING THE GNSS DERIVED ELEVATION AT A9116

SHEET NO. 4

CONTROL DIAGRAM

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

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MONTANA Department of Transportation

PLANS

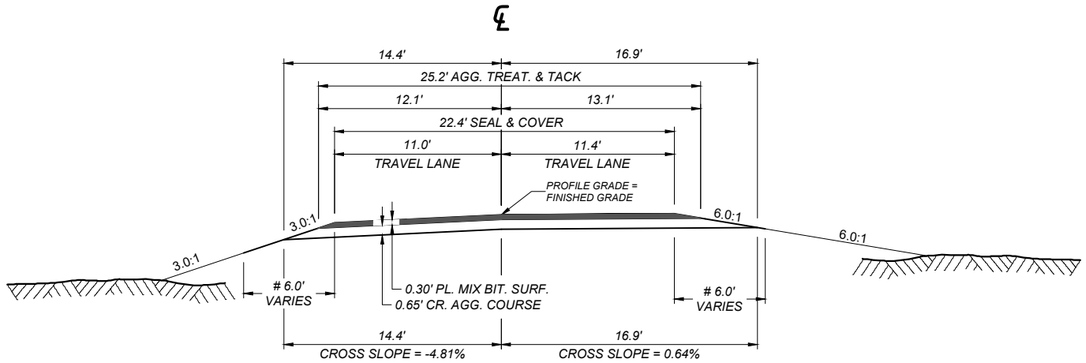
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10+00.00 BEGIN PROJECT
10+00.00 TO 10+55.00 TRANS. TYP. SECT. NO. 1 TO TYP. NO. 2

TYPICAL SECTION NO. 1

MAINLINE



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK **	AGG. TREATMENT
AREA square feet		7.14	18.36	square yards PER STATION	249	560	280
cubic yards PER STATION		26.4	68.0	tons PER STATION	0.44		
tons PER STATION		55.0		gals. PER STATION		28	
square yards PER STATION	249						

**BASED ON 2 APPLICATIONS

NOTES:
HINGE OFFSET VARIES
SEE CROSS SECTIONS

*FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2.5:1

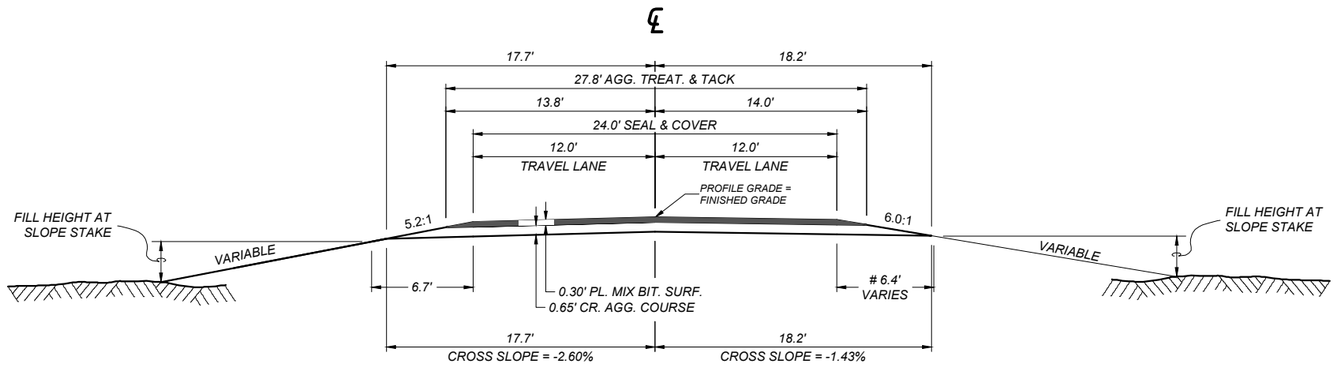
*BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
OVER 20'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

10+55.00 TO 10+70.00 TRANS. TYP. SECT. NO. 2 TO TYP. NO. 3

TYPICAL SECTION NO. 2

MAINLINE



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK **	AGG. TREATMENT
AREA square feet		7.77	20.70	square yards PER STATION	267	618	309
cubic yards PER STATION		28.8	76.7	tons PER STATION	0.48		
tons PER STATION		60.0		gals. PER STATION		31	
square yards PER STATION	267						

**BASED ON 2 APPLICATIONS

NOTES:
HINGE OFFSET VARIES
SEE CROSS SECTIONS

SHEET NO. 5

TYPICAL SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	DATE
B HENDERSON	02/2024
REVIEWED BY	DATE
J. BROTZLER	02/2024
CHECKED BY	DATE
J. CERECK	11/2024

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MONTANA Department of Transportation

PLANS

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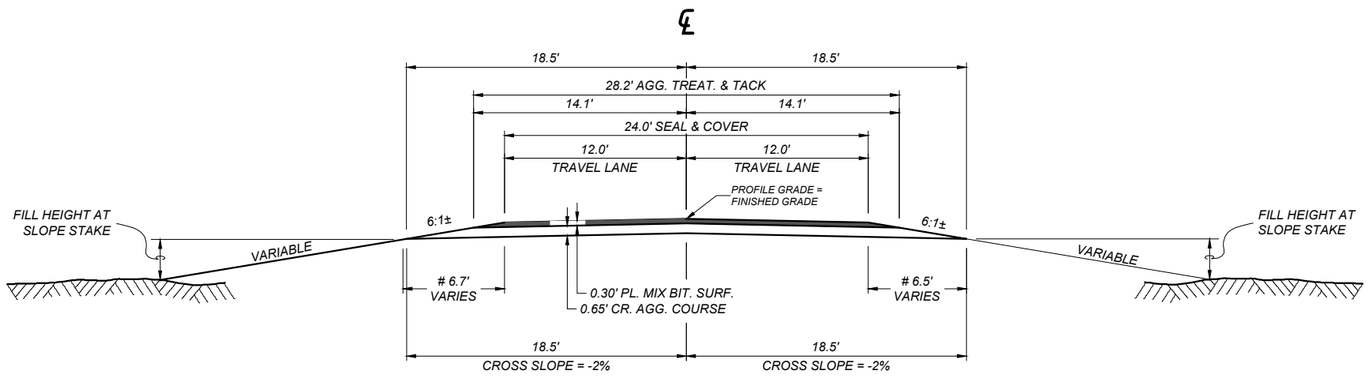
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10+70.00	TO	12+37.50	TRANS. TYP. SECT. NO. 3 TO TYP. NO. 4

TYPICAL SECTION NO. 3

MAINLINE



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK **	AGG. TREATMENT
AREA square feet		7.83	21.19	square yards PER STATION	267	627	313
cubic yards PER STATION		29.0	78.5	tons PER STATION	0.48		
tons PER STATION		60.4		gals. PER STATION		31	
square yards PER STATION	267						

**BASED ON 2 APPLICATIONS

NOTES:
HINGE OFFSET VARIES
SEE CROSS SECTIONS

*FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2.5:1

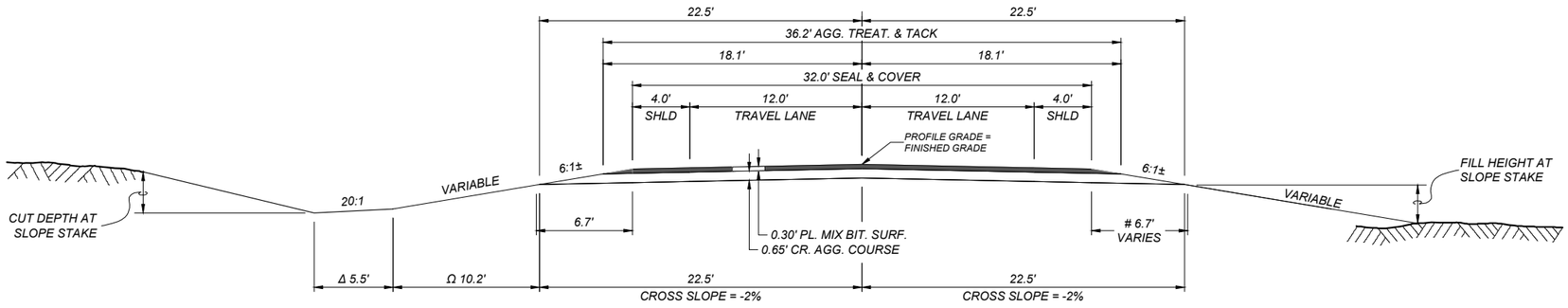
*BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
OVER 20'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

TYPICAL SECTION NO. 4

MAINLINE

12+37.50	TO	26+00.00	
26+00.00	TO	28+40.00	TRANS. TYP. SECT. NO. 4 TO TYP. NO. 5
33+45.82	TO	49+77.08	
49+77.08	TO	51+21.08	TRANS. TYP. SECT. NO. 4 TO TYP. NO. 5
67+19.03	TO	67+38.05	
67+38.05	TO	67+60.55	TRANS. TYP. SECT. NO. 4 TO TYP. NO. 6



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK **	AGG. TREATMENT
AREA square feet		10.23	26.39	square yards PER STATION	356	804	402
cubic yards PER STATION		37.9	97.7	tons PER STATION	0.64		
tons PER STATION		79.0		gals. PER STATION		40	
square yards PER STATION	356						

**BASED ON 2 APPLICATIONS

NOTES:
HINGE OFFSET VARIES
SEE CROSS SECTIONS

Δ DITCH WIDTH VARIES
SEE CROSS SECTIONS

Ω DITCH FORESLOPE VARIES
BETWEEN 67+19.03 TO 67+60.55

SHEET NO. 6

TYPICAL SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	REVIEWED BY	CHECKED BY
B HENDERSON 02/2024	J. BROTZLER 02/2024	J. CERECK 11/2024

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MONTANA Department of Transportation

PLANS

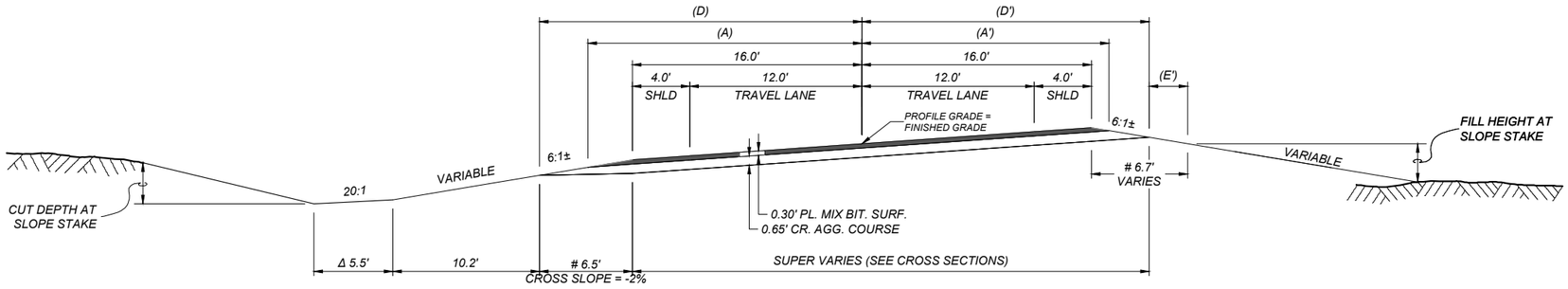
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TYPICAL SECTION NO. 5

MAINLINE

28+40.00	TO	31+05.82	7% LT
31+05.82	TO	33+45.82	TRANS. TYP. SECT. NO. 5 TO TYP. NO. 4
51+21.08	TO	57+82.59	4% LT
57+82.59	TO	62+75.15	TRANS. 4% LT TO 5% RT
62+75.15	TO	65+51.03	5% RT
65+51.03	TO	67+19.03	TRANS. TYP. SECT. NO. 5 TO TYP. NO. 4



NOTES:
HINGE OFFSET VARIES SEE CROSS SECTIONS

Δ DITCH WIDTH VARIES SEE CROSS SECTIONS

FOR QUANTITIES SEE TYPICAL NO. 4

SUPER %	WIDTHS (ft)								
	A	B	C	D	A'	B'	C'	D'	E'
4.00%	18.4			22.5	17.5			20.6	1.9
5.00%	18.6			22.5	17.4			20.4	2.1
7.00%	19.1			22.5	17.3			20.0	2.5

*FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2.5:1

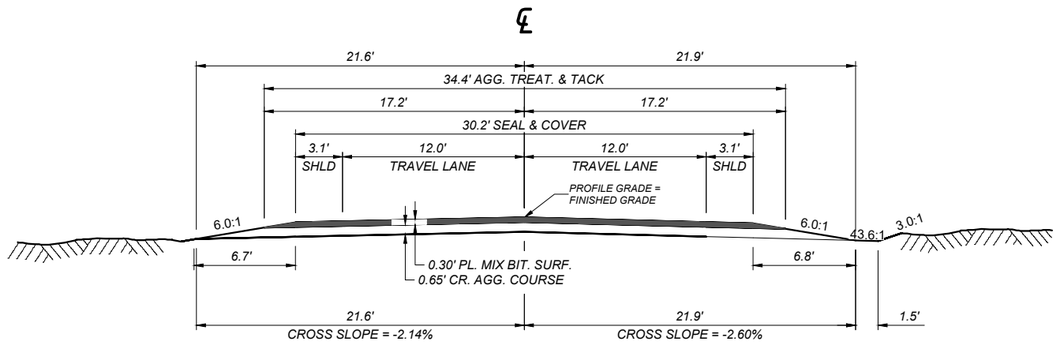
*BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
OVER 20'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

67+60.55 END RECONST TO TYP. SECT. NO. 7

TYPICAL SECTION NO. 6

MAINLINE



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK **	AGG. TREATMENT
AREA square feet		9.69	23.32	square yards PER STATION	336	764	382
cubic yards PER STATION		35.9	93.8	tons PER STATION	0.60		
tons PER STATION		74.8		gals. PER STATION		38	
square yards PER STATION	336						

**BASED ON 2 APPLICATIONS

SHEET NO. 7

TYPICAL SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID

COUNTY STILLWATER COUNTY

PROJECT ID HSIP 421-1(13)5

UPN 9116000

DESIGNED BY	DATE
B HENDERSON	02/2024
REVIEWED BY	DATE
J. BROTZLER	02/2024
CHECKED BY	DATE
J. CERECK	11/2024

9116000RDTYP100.DWG

MONTANA Department of Transportation

PLANS

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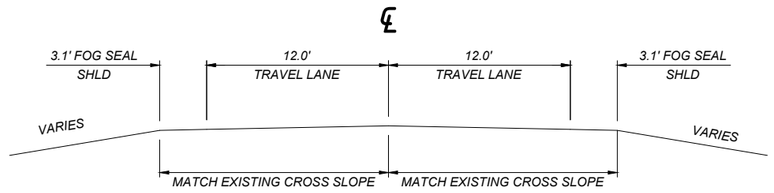
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67+60.55 TO 120+75.51

TYPICAL SECTION NO. 7

MAINLINE



QUANTITIES	
UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT FOG SEAL
square yards PER STATION	69
gallons PER STATION	7

SHEET NO. 8

TYPICAL SECTIONS

SF 159 SE COLUMBUS SHLDR WID

STILLWATER COUNTY

HSIP 421-1(13)5

9116000

MONTANA
Department of Transportation

PLANS

DESIGNED BY	
B HENDERSON	02/2024
REVIEWED BY	
J. BROTZLER	02/2024
CHECKED BY	
J. CERECK	11/2024

PROJECT NAME
COUNTY
PROJECT ID
UPN

2/20/2025 4:28 PM 9116000RDTYP100.DWG

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY

SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE I	AGGREGATE tons COMMERCIAL PLANT MIX-PG 58H-34	AGGREGATE tons COMMERCIAL PLANT MIX - MISC	AGGREGATE cu. yards CRUSHED AGG. COURSE	AGGREGATE cu. yards TRAFFIC GRAVEL	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT SEAL CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	sq. yards AGG. TREAT.	REMARKS
10+00.00	10+55.00	55.00	55.00				142	32		40		0.3	17		162	TRANS. TYP. SECT. NO. 1 TO TYP. NO. 2
10+55.00	10+70.00	15.00	15.00				40	9		12		0.1	5		47	TRANS. TYP. SECT. NO. 2 TO TYP. NO. 3
10+70.00	12+37.50	167.50	167.50				523	117		147		0.9	60		600	TRANS. TYP. SECT. NO. 3 TO TYP. NO. 4
12+37.50	26+00.00	1,362.50	1,362.50				4,851	1,076		1,331		8.7	545		5,477	TYP. SECT. NO. 4
26+00.00	28+40.00	240.00	240.00				854	190		235		1.5	96		965	TRANS. TYP. SECT. NO. 4 TO TYP. NO. 5
28+40.00	31+05.82	265.82	265.82				946	210		260		1.7	106		1,069	TYP. SECT. NO. 5
31+05.82	33+45.82	240.00	240.00				854	190		235		1.5	96		965	TRANS. TYP. SECT. NO. 5 TO TYP. NO. 4
33+45.82	49+77.08	1,631.26	1,631.26				5,807	1,289		1,594		10.4	653		6,558	TYP. SECT. NO. 4
49+77.08	51+21.08	144.00	144.00				513	114		141		0.9	58		579	TRANS. TYP. SECT. NO. 4 TO TYP. NO. 5
51+21.08	65+51.03	1,429.95	1,429.95				5,091	1,130		1,397		9.2	572		5,748	TYP. SECT. NO. 5
65+51.03	67+19.03	168.00	168.00				598	133		165		1.1	67		675	TRANS. TYP. SECT. NO. 5 TO TYP. NO. 4
67+19.03	67+38.05	19.02	19.02				68	15		19		0.1	8		76	TYP. SECT. NO. 4
67+38.05	67+60.55	22.50	22.50				78	17		22		0.2	9		88	TRANS. TYP. SECT. NO. 4 TO TYP. NO. 6
67+60.55	120+75.51	5,314.96	5,314.96											372		TYP. SECT. NO. 7
						ADDITIONAL SURFACING	~	~	292	992		~	116	~	4,165	
TOTAL		11,075.51	11,075.51	0.00	0.00		20,365	4,522	292	6,590	500	36.6	2,408	372	27,174	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE I	AGGREGATE tons COMMERCIAL PLANT MIX PG 58H-34	AGGREGATE tons COMMERCIAL PLANT MIX-PG MISC	AGGREGATE cu. yards CRUSHED AGG. COURSE	AGGREGATE cu. yards TRAFFIC GRAVEL	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT SEAL CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	sq. yards AGG. TREAT.	REMARKS
						5 - FARM FIELD APPROACHES			60	368			28		1,764	
						5 - PRIVATE APPROACHES			232	476			88		2,401	
38+21.63	43+54.88					GUARDRAIL WIDENING				42						RT.
38+95.38	43+91.13					GUARDRAIL WIDENING				39						LT.
107+57.81	113+45.30					GUARDRAIL WIDENING				47						RT.
112+41.38	113+31.00					GUARDRAIL WIDENING				11						LT.
118+81.00	119+33.33					GUARDRAIL WIDENING				9						LT.
SUBTOTAL		~	~	~	~		~	~	292	992	~	~	116	~	4,165	

GRADING

STATION FROM	STATION TO	cu. yards EXC.	cu. yards EMB. IN PLACE	REMARKS
10+00.00	40+50.00	6,698	10,924	
40+50.00	42+00.00	278		
42+00.00	67+60.55	13,459	4,403	
10+00.00	67+60.55		3,591	TOPSOIL REPLACEMENT
		390	1,918	ADDITIONAL GRADING
TOTAL		# 20,825	20,836	

FOR INFORMATION ONLY

ADDITIONAL GRADING

STATION FROM	STATION TO	cu. yards INCL. IN GRADING FRAME EXC. *	cu. yards INCL. IN GRADING FRAME EMB. IN PLACE *	cu. yards ADD. EMB. IN PLACE #	REMARKS
15+00.00		10	60		FARM FIELD APPROACH RT.
15+00.00		7	344		FARM FIELD APPROACH LT.
25+45.00		8	98		FARM FIELD APPROACH RT.
25+45.00		6	134		FARM FIELD APPROACH LT.
26+70.00		6	67		PRIVATE APPROACH LT.
29+62.00		23	400		PRIVATE APPROACH RT. - JAWSMITH DR. W/ MAILBOX TURNOUT
38+42.00		18	265		FARM FIELD APPROACH LT.
43+90.00		54	53		FARM FIELD APPROACH RT.
44+80.00		95	157		PRIVATE APPROACH LT.
47+05.00		40	88		FARM FIELD APPROACH RT.
48+86.00			16		DITCH BLOCK RT.
49+76.00		114	185		PRIVATE APPROACH RT. - MORNING GLORY LN. INCLS. DRIVEWAY
53+75.00		9	51		PRIVATE APPROACH LT.
SUBTOTAL		390	1,918	~	

EXCAVATION QUANTITIES- FOR ROADWAY EMBANKMENTS

SHEET NO. 9

SUMMARY SHEETS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY: B HENDERSON 02/2024
REVIEWED BY: J. BROTZLER 02/2024
CHECKED BY: J. CERECK 11/2024

MONTANA Department of Transportation

PLANS

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SUMMARY

* SPECIAL EMBANKMENT

STATION		cu. yards	REMARKS
FROM	TO	SPECIAL EMBANKMENT	
40+50.00	42+00.00	8,272	FILL SLOPES LT. & RT.
TOTAL		8,272	

* SEE DETAIL AND SPECIAL PROVISION

SPECIAL BORROW

STATION		cu. yards	sq. yards	REMARKS
FROM	TO	SPECIAL BORROW NEAT LINE	STABILIZATION GEOTEXTILE *	
10+00.00	67+60.55	17,532	37,510	MUCK EXCAVATION BACKFILL INCLUDED
TOTAL		17,532	37,510	

* SEE DETAIL

MUCK EXCAVATION

STATION		cu. yards	REMARKS
FROM	TO	MUCK EXC. *	
40+75.00	41+50.00	625	LT.
40+75.00	41+25.00	130	RT.
TOTAL		755	

* MEASURED ON CAD

TOPSOIL & SEEDING

STATION		cu. yards	acres							linear feet	REMARKS
		TOPSOIL SALVAGING & PLACING	SEED			FERTILIZER		CONDITION SEEDBED	MULCH - COMPOST	9" FIBER ROLL	
FROM	TO		NO. 1	NO. 2	NO.3	NO. 1	NO. 2			NATURAL FIBER	
10+00.00	40+25.00	1,855	1.6		2.3	1.6		3.9			
40+25.00	42+00.00									405	FIBER ROLLS RT.
40+25.00	42+25.00									725	FIBER ROLLS LT.
40+25.00	43+00.00	385		0.6	0.2		0.6	0.2	0.6		
43+00.00	67+60.55	1,351	1.1		2.0	1.1		3.1			
TOTAL		3,591	2.7	0.6	4.5	2.7	0.6	# 7.2	0.6	## 1,130	

#FOR INFORMATION ONLY. INCLUDE IN COST OF SEEDING AREA.
##FOR INFORMATION ONLY. INCLUDE IN COST OF MULCH-COMPOST.

CLEARING & GRUBBING

STATION		lump sum	REMARKS
FROM	TO	CLEARING AND GRUBBING	
31+00	45+00	1	RT. & LT.
TOTAL		1	

PERMANENT EROSION CONTROL *

STATION		cu. yards		CHECK DAMS	sq. yards		REMARKS
		RANDOM RIPRAP			GEOTEXTILE PERM. EROS. CNTRL.	EROSION CONTROL BLANKET	
FROM	TO	CL. 1	CL. 2	CRUSHED AGG. COURSE	HIGH SURV. CLASS B	HIGH PERF. %	
38+90				2			CHECK DAM DITCH RT., SEE PESC MANUAL
39+35				3			CHECK DAM DITCH RT., SEE PESC MANUAL
39+40	41+12					509	LINED DITCH RT. *
39+63	39+90	36.6			81		EROSION REPAIR RIPRAP BASIN RT. *
40+25	41+10					267	LINED DITCH LT. *
41+20			54.0		75		RIPRAP BASIN LT. *
41+27	42+50					360	LINED DITCH RT. *
41+50	43+00					488	LINED DITCH LT. *
49+07	49+14	13.6			26		CULVERT OUTLET RIPRAP LT. *
TOTAL		50.2	54.0	5	182	1,624	

* SEE DETAILS
% MEASURED ON CAD

RUMBLE STRIPS

STATION		miles		gals	REMARKS
		RUMBLE STRIPS		EMULSIFIED ASPHALT FOG SEAL #	
FROM	TO	INTER-MITTENT *	CENTERLINE TYPE 3		
10+00.00	67+60.55	2.2	1.1	387	
67+60.55	120+75.51	2.0	1.0	~	##
SUBTOTAL		4.2	2.1	387	
TOTAL		4.2	2.1	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS
FOG SEAL QUANTITY INCLUDED IN SURFACING FRAME
* CONSTRUCT IN ACCORDANCE WITH DETAIL DRAWING 411-03

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	80		80
STRIPING - YELLOW PAINT	gallon	65		65
WORDS & SYMBOLS - WHITE PAINT	gallon	1		1
STRIPING - WHITE EPOXY	gallon		106	106
STRIPING - YELLOW EPOXY	gallon		87	87
WORDS & SYMBOLS - WHITE EPOXY	gallon		1	1
TEMPORARY STRIPING	linear feet		18,984	18,984
FINAL SWEEP AND BROOM	course mile			2.4

BASED ON 2 APPLICATIONS

SHEET NO. 10

SUMMARY SHEETS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

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MONTANA Department of Transportation

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SUMMARY

GUARDRAIL

STATION		linear feet						each				REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL		MGS INTERSECTING ROADWAY TERMINAL SECTION		MASH W-BEAM TERMINAL SECTION		MGS TO METAL GUARDRAIL TRANSITION		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
NEW RAIL												
38+72.63	43+03.88				362.5				2			
39+46.38	43+40.13			325.0				2				
107+57.81	113+45.30				553.1				1		1	
112+41.38	113+31.00			65.6		62.5				1		24' RADIUS
116+12.71	116+75.21				28.1				1		1	
118+81.20	119+33.33			28.1		62.5				1		24' RADIUS
REMOVE RAIL												
112+95.30	113+45.30		50.0									REMOVE EXISTING OPTIONAL TERMINAL SECTION
112+81.00	113+31.00	50.0										REMOVE EXISTING OPTIONAL TERMINAL SECTION
116+12.71	116+87.71		75.0									REMOVE EXISTING OPTIONAL TERMINAL SECTION
118+81.20	119+31.20	50.0										REMOVE EXISTING OPTIONAL TERMINAL SECTION
SUBTOTAL		100.0	125.0	418.7	943.7	125.0	0.0	2	4	2	2	
TOTAL		225.0		1,362.4		125		6		4		

MAILBOXES

STATION	each		REMARKS
	MAILBOX	RESET MAILBOX	
29+62	3		JAWSMITH DR. RT.
49+76	6	6	MORNING GLORY LN. RT. *
TOTAL	9	6	

*RESET EXISTING MAILBOXES PER DETAIL NO. 623-10

FENCING

STATION		linear feet				each			linear feet		REMARKS
		FARM FENCE			TEMP. FENCE	FARM FENCE PANEL		DEADMAN	FARM GATE		
		TYPE F4W	TYPE F5W	TYPE F2W-39WW		SINGLE	DOUBLE				
FROM	TO					FW	FW		TYPE G2	TYPE G3	
10+00.00	25+75.00	1,510				13	1	1			RT., BARBED WIRE, SALVAGE FENCE TO GRANTOR
10+00.00	26+48.00	1,591				12	3	2			LT., BARBED WIRE, SALVAGE FENCE TO GRANTOR
15+00.00										32	LT., TWO 16FT GATES
15+00.00										32	RT., TWO 16FT GATES
25+45.00										32	RT., TWO 16FT GATES
25+45.00										32	RT., TWO 16FT GATES
26+48.00	37+25.00	1,034				11	6	3			LT., BARBED WIRE
29+30.00	39+03.00	1,015				7	9	4			RT., BARBED WIRE
30+00.00										32	RT.; ALONG JAWSMITH DR., TWO 16FT GATES
37+25.00	46+62.00		881			12	4	3			LT., BARBED WIRE
38+42.00									32		LT., TWO 16FT GATES
39+03.00	44+60.00		495			7	3	1			RT., BARBED WIRE
43+90.00										32	RT., TWO 16FT GATES
44+60.00	47+56.00		265			5	1				RT., BARBED WIRE, SALVAGE CEDAR POSTS TO GRANTORS
44+80.00										32	LT., TWO 16FT GATES
44+80.00										32	RT., TWO 16FT GATES, SALVAGE GATE TO GRANTOR
46+62.00	54+38.00		743			7	7	1			LT., BARBED WIRE, SALVAGE CEDAR POSTS TO GRANTORS
47+05.00										32	RT., TWO 16FT GATES
47+56.00	55+18.00			190		4	3	2			RT., COMBINATION WOVEN WIRE AND BARBED WIRE
53+75.00										32	LT., TWO 16FT GATES
54+38.00	67+60.00		1,326			7	6	2			LT., BARBED WIRE
55+18.00	67+59.00		1,239			7	3				RT., BARBED WIRE
TOTAL		5,150	4,949	190	* 2000	92	46	19	32	320	

*TO BE PLACED PER PROJECT MANAGER'S DISCRETION TO MAINTAIN CLOSURES WHEN NEEDED

CONCRETE BARRIER RAIL

STATION	each		REMARKS
	CONCRETE BARRIER RAIL	CONCRETE BARRIER RAIL TERMINAL SECTION	
52+92	2	2	43' RT.
TOTAL	2	2	

SHEET NO. 11

SUMMARY SHEETS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID

COUNTY STILLWATER COUNTY

PROJECT ID HSIP 421-1(13)5

UPN 9116000

DESIGNED BY B HENDERSON 02/2024

REVIEWED BY J. BROTZLER 02/2024

CHECKED BY J. CERECK 11/2024

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MONTANA Department of Transportation

PLANS

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SUMMARY

APPROACH PIPES (INCLUDED IN CULVERT SUMMARY RECAP)

STATION	BASIC BID ITEMS			PIPE OPTIONS in					END SECTIONS		linear feet			
	CULVERT PIPE in	linear feet: LENGTH OF PIPE	linear feet: REMOVE PIPE CULVERT	STEEL - 2 2/3 x 1/2 CORR. 0.079 THK. *	CONCRETE CLASS 3	CONCRETE CLASS 4	ALUMINUM - 2 2/3 x 1/2 CORR. 0.060 THK.	CORRU-GATED POLY-ETHYLENE PIPE	LEFT	RIGHT	HEIGHT OF COVER	SKEW ANGLE	CULVERT IN PL. in x ft	REMARKS
15+00	18	52				18 RCP			FETS	FETS	0.9			FARM FIELD APPROACH RT.
25+45	18	70	36.4	18		18 RCP			FETS	FETS	1.5		12" x 36.4' POLYETHYLENE	FARM FIELD APPROACH RT.
26+70	22 x 13.5	56	40.2			18 RCPA			FETS	FETS	0.8	3° LT	15" x 40.2' CMP	PRIVATE APPROACH LT.
29+17			47.5										12" x 47.5' CMP	PRIVATE APPROACH RT. - JAWSMITH DR.
29+62	24	128			24 RCP				FETS	FETS	1.5			JAWSMITH DR. APPROACH RT.
43+90	18	56				18 RCP			FETS	FETS	0.7			FARM FIELD APPROACH RT.
44+80	18	98		18	18 RCP		18	18	FETS	FETS	2.4			PRIVATE APPROACH LT.
47+05	18	68		18	18 RCP		18		FETS	FETS	1.6			FARM FIELD APPROACH RT.
49+76			40.4										12" x 40.4' CMP	PRIVATE APPROACH RT. - MORNING GLORY LN. 26' RT.
49+76	28.5 x 18	84				24 RCPA			FETS	FETS	0.5			PRIVATE APPROACH RT. - MORNING GLORY LN. 38' RT.
53+75	22 x 13.5	54				18 RCPA			FETS	FETS	0.5			PRIVATE APPROACH LT.
0+45	12		22.0										12" x 22' POLYETHYLENE	PRIV. APP. RT. - MORNING GLORY LN. DRIVEWAY
0+45	22 x 13.5	38	25.0			18 RCPA			FETS	FETS	0.5		12" x 25'	PRIV. APP. RT. - MORNING GLORY LN. DRIVEWAY
TOTAL	~	~	149.1	~	~	~	~	~	~	~	~	~	~	

* COAT PIPE PER STANDARD SPEC. SEC. 709.12

CULVERTS

STATION	linear feet: RCPA 28.5" X 18"	linear feet: SCP 72"	CLASS OR THK.	END SECTIONS: LEFT	END SECTIONS: RIGHT	linear feet: REMOVE PIPE CULVERT	linear feet: SPECIAL INSTALL-ATION *	cu. yards: FOUND-ATION MATERIAL	cu. yards: GRANULAR BEDDING MATERIAL	cu. yards: CONCRETE - CLASS GENERAL	cu. yards: FILL & ABANDON PIPE	sq. yards: GEOTEXT. STAB.	linear feet: HEIGHT OF COVER	SKEW ANGLE	CULVERT IN PL. in x ft	REMARKS
18+05						40.3									12x40.3 CMP	REMOVE 12" CMP DR.
41+07											122				5'9"x6'6"x104.5' R SSPA	DR.
41+20		# 214	0.75"	SQUARE	SQUARE		106.0	80	103	11.8		287	26.7			DR. EDGE PROTECTION & CUTOFF WALLS LT. & RT.
47+55						49.4									12x49.4 CMP	REMOVE 12" CMP DR.
49+07	68		CL. 3	FETS	FETS								1.3			DR.
49+14	68		CL. 3	FETS	FETS								1.5			DR.
49+47						49.1									24x49.1 CMP	REMOVE 24" CMP DR.
TOTAL	136	214	~	~	~	138.8	106.0	80	103	11.8	122	287	~	~	~	

* SEE SPECIAL PROVISION
\# UNCOATED

CULVERT SUMMARY RECAP

BASIC BID	linear feet: NEW PIPE (TOTAL)	linear feet: REMOVE PIPE CULVERT	linear feet: SPECIAL INSTALL-ATION	cu. yards: FOUND-ATION MATERIAL	cu. yards: GRANULAR BEDDING MATERIAL	cu. yards: CONCRETE - CLASS GENERAL	sq. yards: GEOTEXT. STAB.
18"	344						
18" RCPA EQUIV.	148						
24"	128						
24" RCPA EQUIV.	220						
72" SCP DR	214						
TOTAL	~	287.9	106.0	80	103	11.8	287

SHEET NO. 12

SUMMARY SHEETS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

MONTANA Department of Transportation

PLANS

3/13/2025 8:13 AM

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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

HYDRAULIC DATA SUMMARY *

STATION	STREAM NAME (IF NAMED)	DRAINAGE AREA (mi^2)	SIZE/TYPE STRUCTURE ① ② ⑤	DESIGN FLOOD			BASE FLOOD (1%)		OVERTOPPING FLOOD ③ ④			REMARKS (FLOOD OF RECORD, Qp(max), etc.) ⑥
				MAGNITUDE (cfs)	FREQUENCY (%)	H.W. ELEV. (ft)	MAGNITUDE (cfs)	H.W. ELEV. (ft)	MAGNITUDE (cfs)	APPROX. FREQUENCY (%)	H.W. ELEV. (ft)	
41+20		1.1	72" SCP	153	2	3676.79	236	3679.37	542	~	3699.69	ROADWAY SAG, Qp(max)

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

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

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

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

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

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

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

EXCEEDANCE PROBABILITY

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

SHEET NO. 13

HYDRAULIC DATA SUMMARY

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	REVIEWED BY	CHECKED BY
L. DAVIES 5/2024	J. BROTZLER 02/2024	J. CERECK 11/2024

9116000HYHDS001.DWG

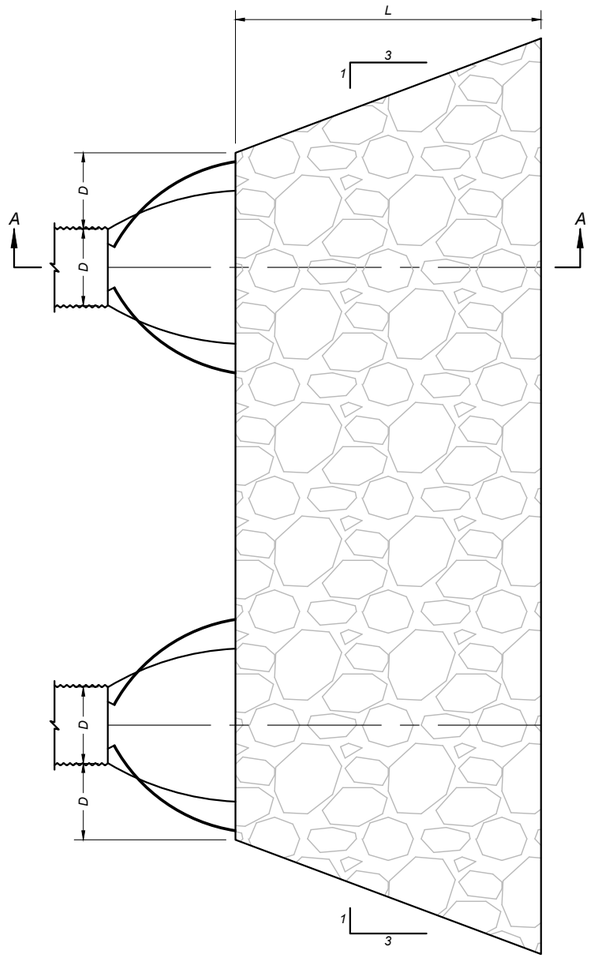
MONTANA Department of Transportation

PLANS

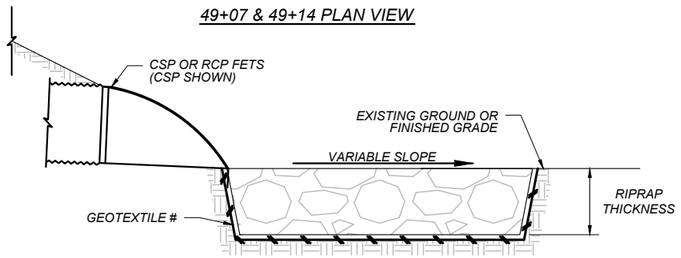
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

DETAIL



49+07 & 49+14 PLAN VIEW



SECTION A-A

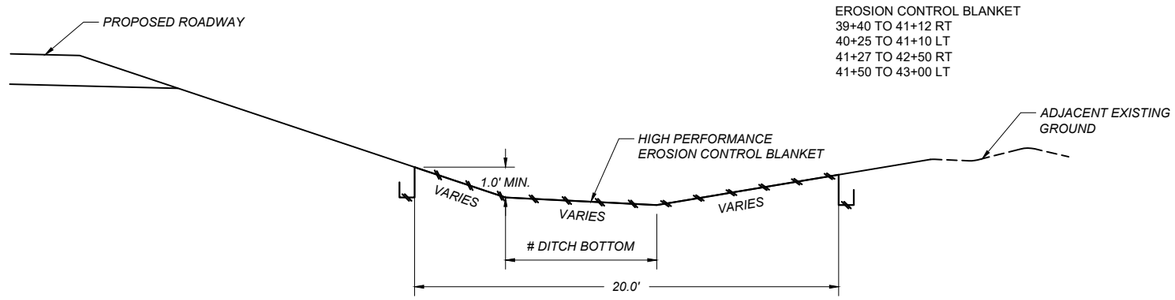
CULVERT OUTLET RIPRAP WITHOUT DITCH - DIMENSIONS AND ESTIMATED QUANTITIES				
		CLASS I RIPRAP (2' THICK)		
STATION	CULVERT DIA. OR SPAN D (in.)	LENGTH OF APRON L (ft.)	CLASS I RIPRAP (yd^3)	GEOTEXTILE # (yd^2)
49+07 & 49+14	28 1/2	10	13.6	26

PERMANENT EROSION CONTROL GEOTEXTILE - HIGH SURV. CLASS B

STATION 49+07 & 49+14:

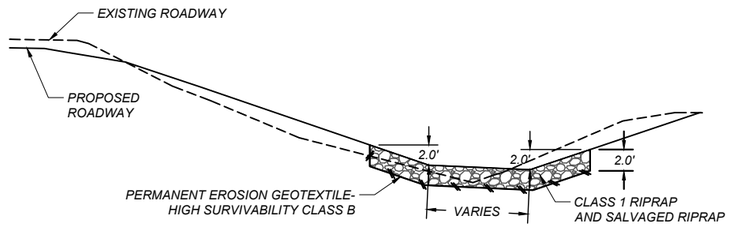
CULVERT OUTLET RIPRAP WITHOUT DITCH

LINED DITCH
PERMANENT EROSION CONTROL

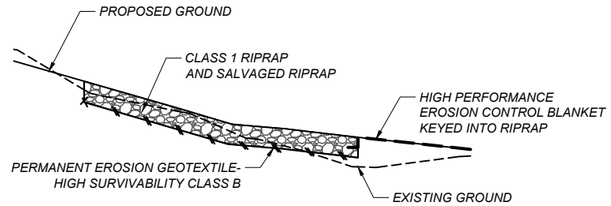


WIDTH VARIES

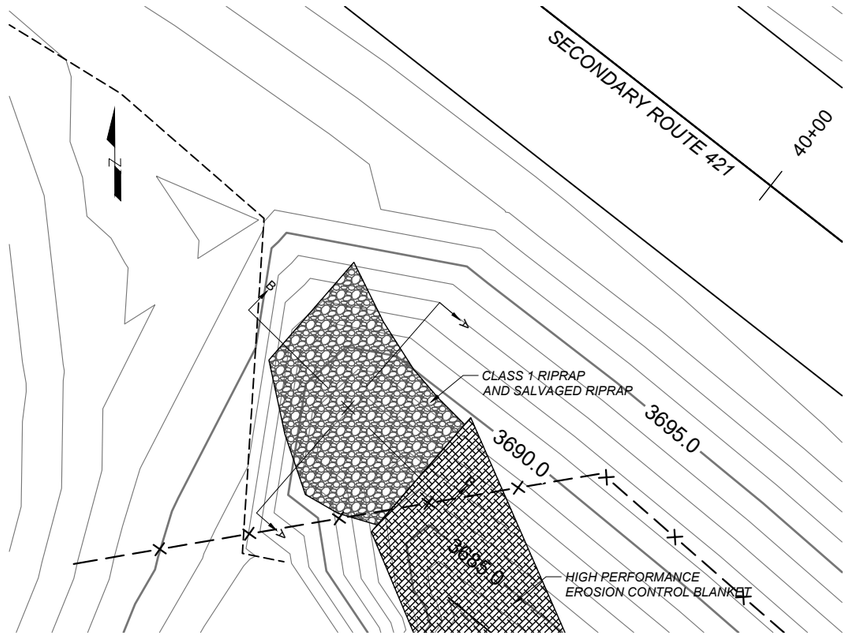
NOTES:
1. SEE CROSS-SECTIONS FOR VARYING SITE CONDITIONS.
2. CHECK FINAL PROPOSED LAYOUT WITH EPM.
3. SEE PESC MANUAL.



SECTION A-A



SECTION B-B



STATION 39+63 TO 39+90 RT: EROSION REPAIR RIPRAP BASIN

SHEET NO. 14

EROSION CONTROL (NO SCALE)

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	DATE
L. DAVIES	06/11/2024
REVIEWED BY	DATE
J. BROTZLER	02/2024
CHECKED BY	DATE
J. CERECK	11/2024

MONTANA Department of Transportation

PLANS

11/21/2024 12:54 PM

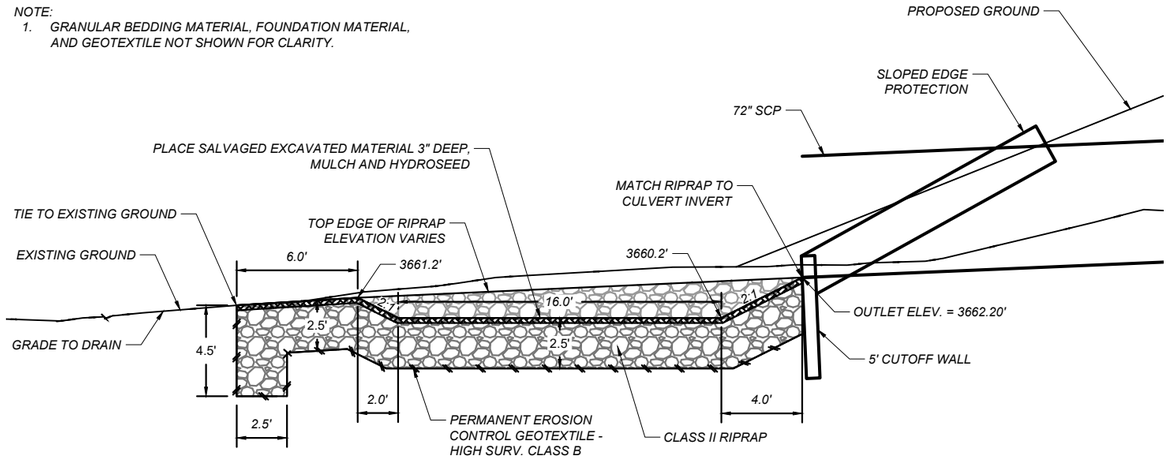
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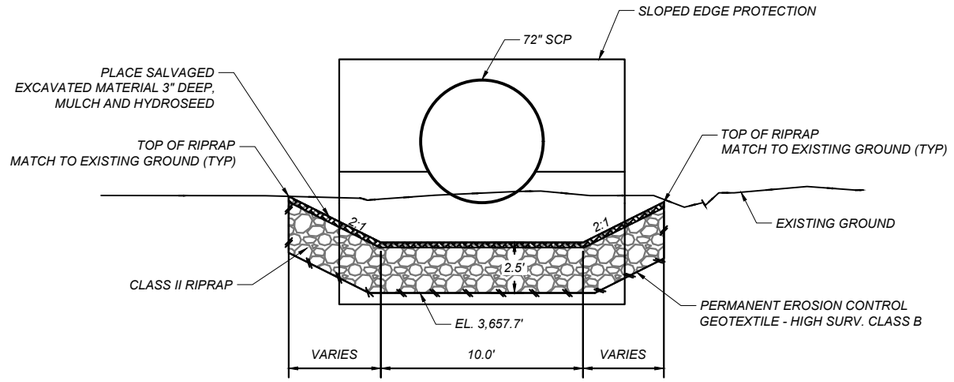
AWARD COPY

DETAIL

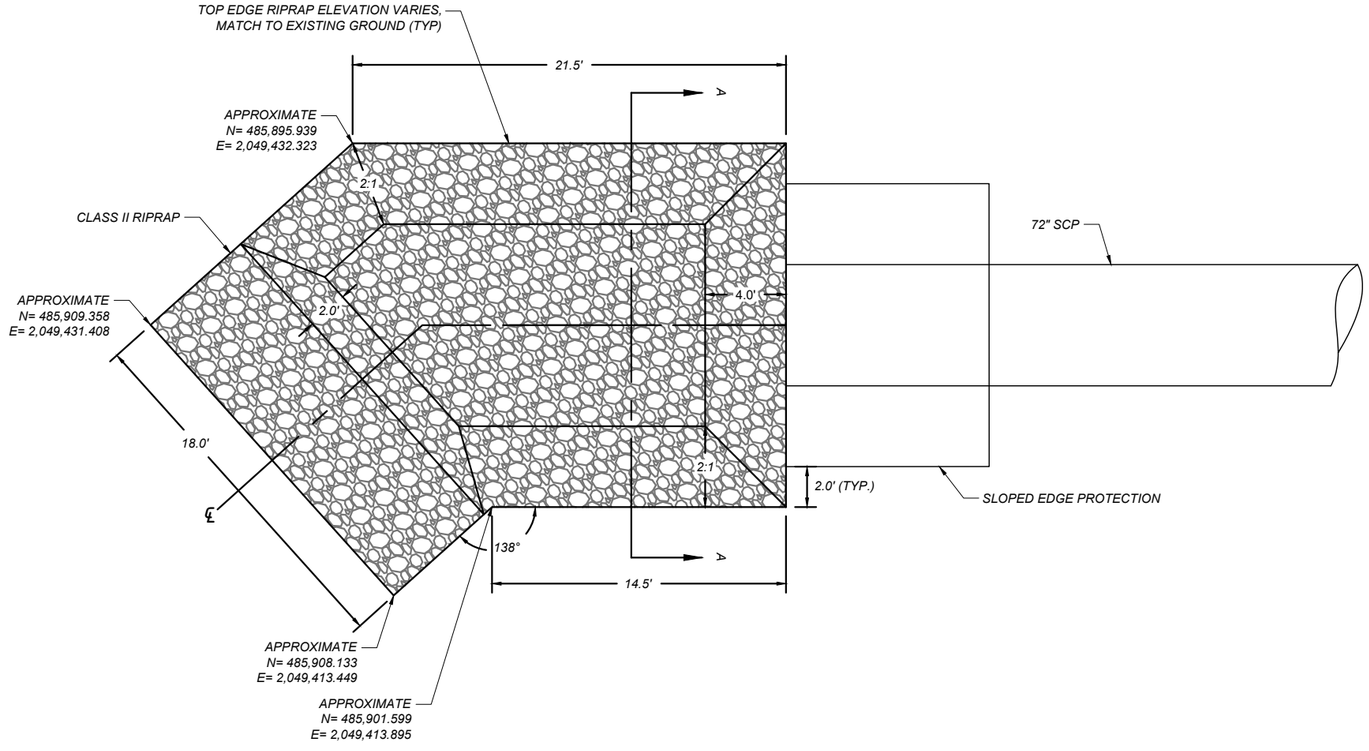
NOTE:
1. GRANULAR BEDDING MATERIAL, FOUNDATION MATERIAL, AND GEOTEXTILE NOT SHOWN FOR CLARITY.



CENTER LINE PROFILE



SECTION A-A



PLAN

NOTES:

FILL UPPER 3 INCHES OF RIPRAP VOIDS WITH SALVAGED EXCAVATED MATERIAL.

REFER TO THE SPECIAL PROVISIONS FOR PLANTING AND SEEDING SPECIFICATIONS.

SHEET NO. 15

STATION 41+20: CULVERT OUTLET RIPRAP BASIN (NO SCALE)

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	L. DAVIES	06/11/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

9116000HYDET001.DWG

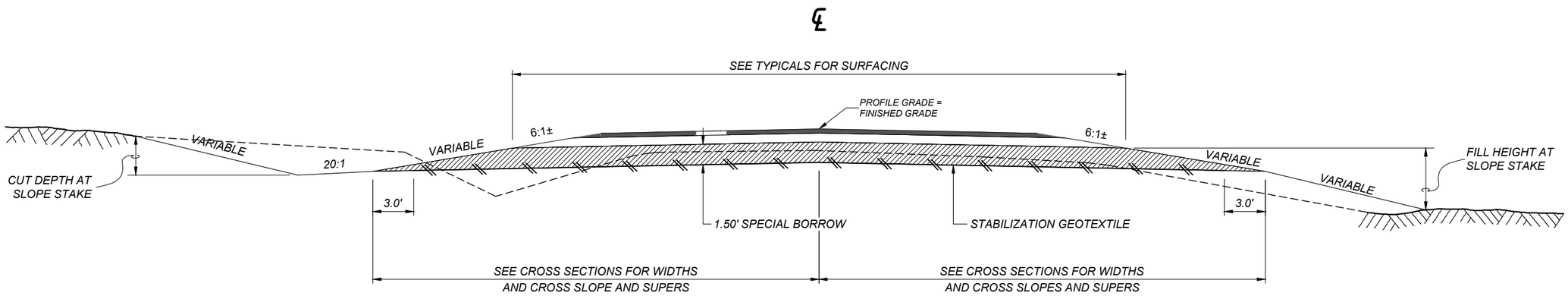
MONTANA Department of Transportation

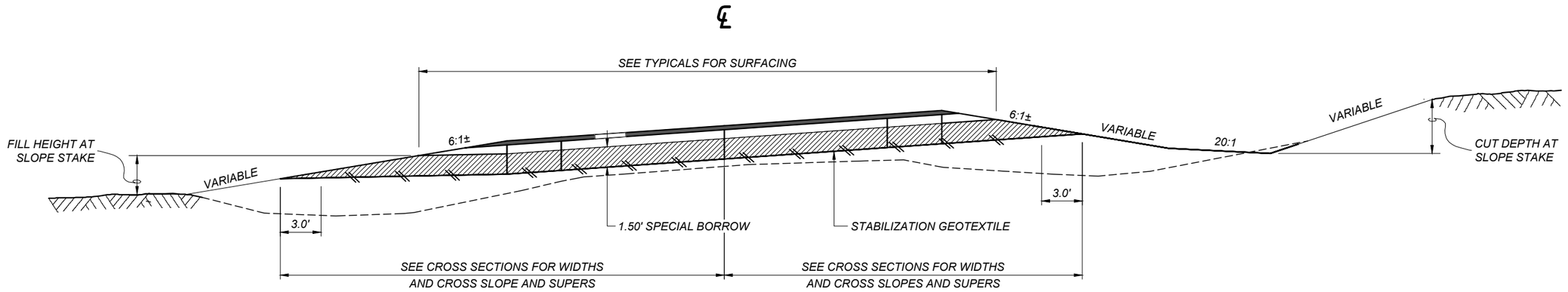
PLANS

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SPECIAL BORROW DETAIL





SHEET NO. 16

SPECIAL BORROW DETAIL (NO SCALE)

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	9116000RDDET200.DWG

MONTANA Department of Transportation

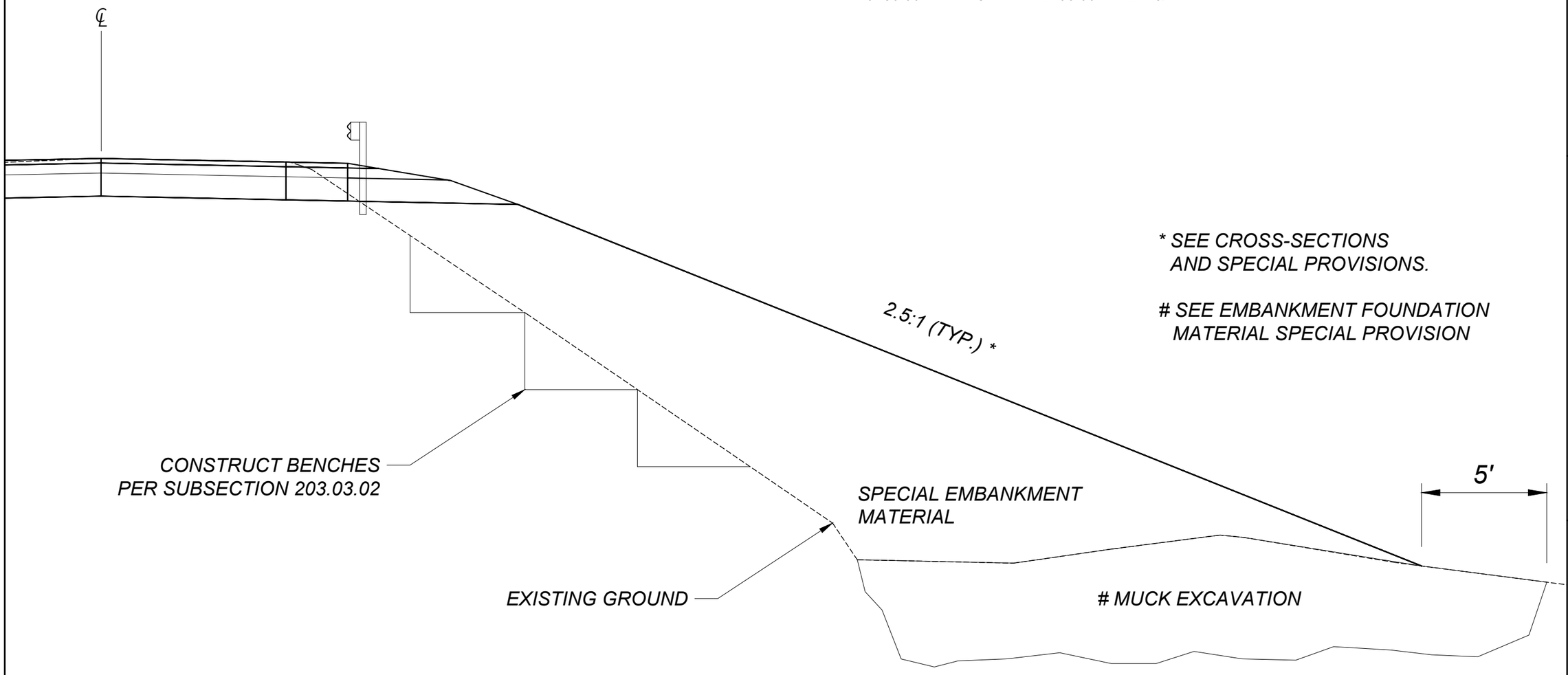
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SPECIAL EMBANKMENT DETAIL

40+50.00 TO 42+00.00 LT. & RT.



* SEE CROSS-SECTIONS AND SPECIAL PROVISIONS.

\# SEE EMBANKMENT FOUNDATION MATERIAL SPECIAL PROVISION

SHEET NO. 17

SPECIAL EMBANKMENT DETAIL (NO SCALE)

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

9116000RDDET300.DWG

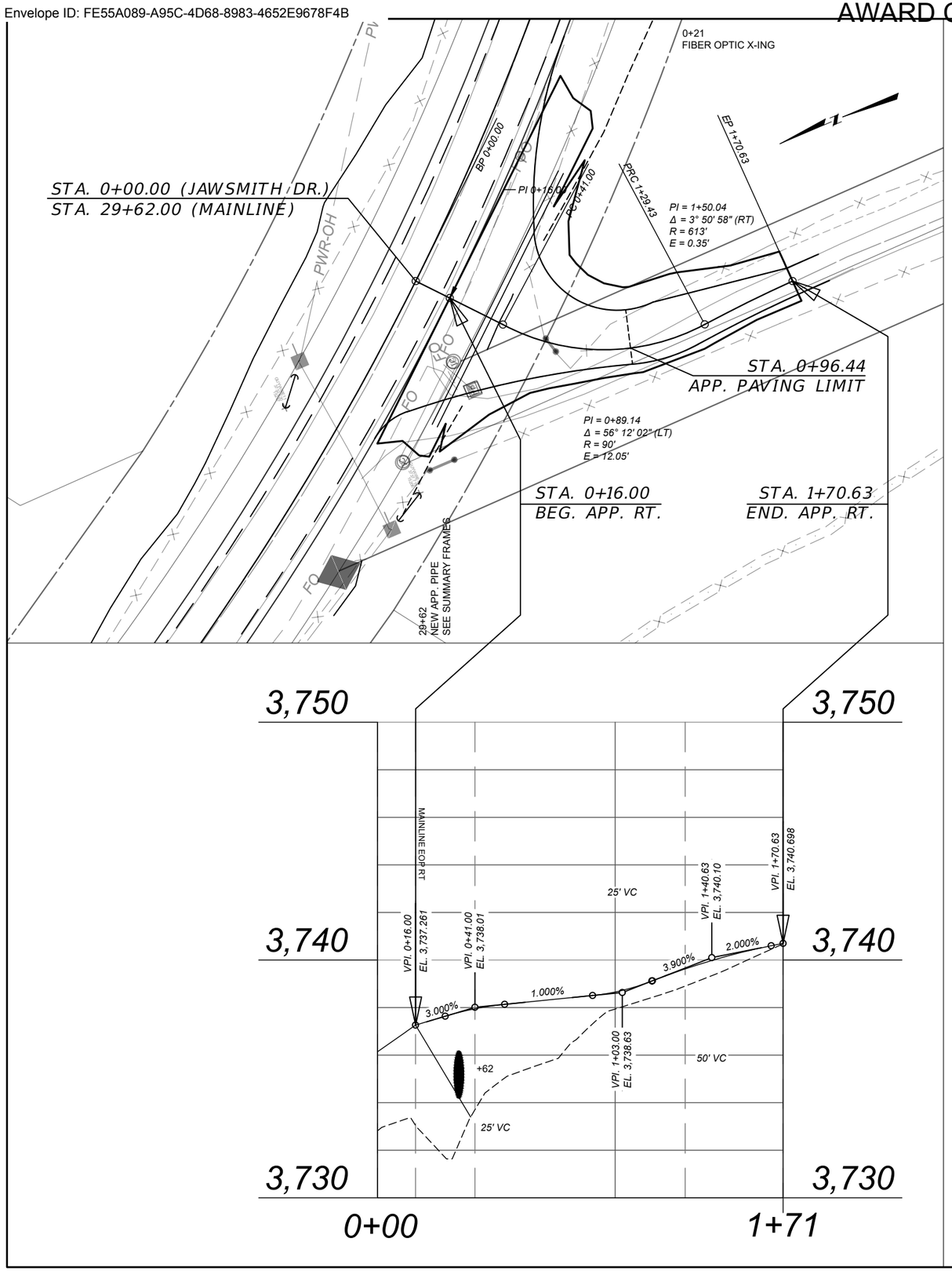
MONTANA Department of Transportation

PLANS

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DETAIL

CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
0+00.00	BP	486,526.382	2,048,445.893	
0+16.00	PI	486,516.022	2,048,433.699	BEGIN JAWSMITH DR. APP.
0+41.00	PC	486,499.835	2,048,414.647	
1+29.43	PRC	486,421.732	2,048,381.291	
1+70.63	EP	486,380.599	2,048,383.499	END JAWSMITH DR. APP.

ALIGNMENT - WYMER_CL

SHEET NO.
18

JAWSMITH DR. APP.
PLAN & PROFILE
(NO SCALE)

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY	02/2024
B HENDERSON	
REVIEWED BY	02/2024
J. BROTZLER	
CHECKED BY	11/2024
J. CERECK	

9116000RDPLP102.DWG

MONTANA
Department of Transportation

PLANS

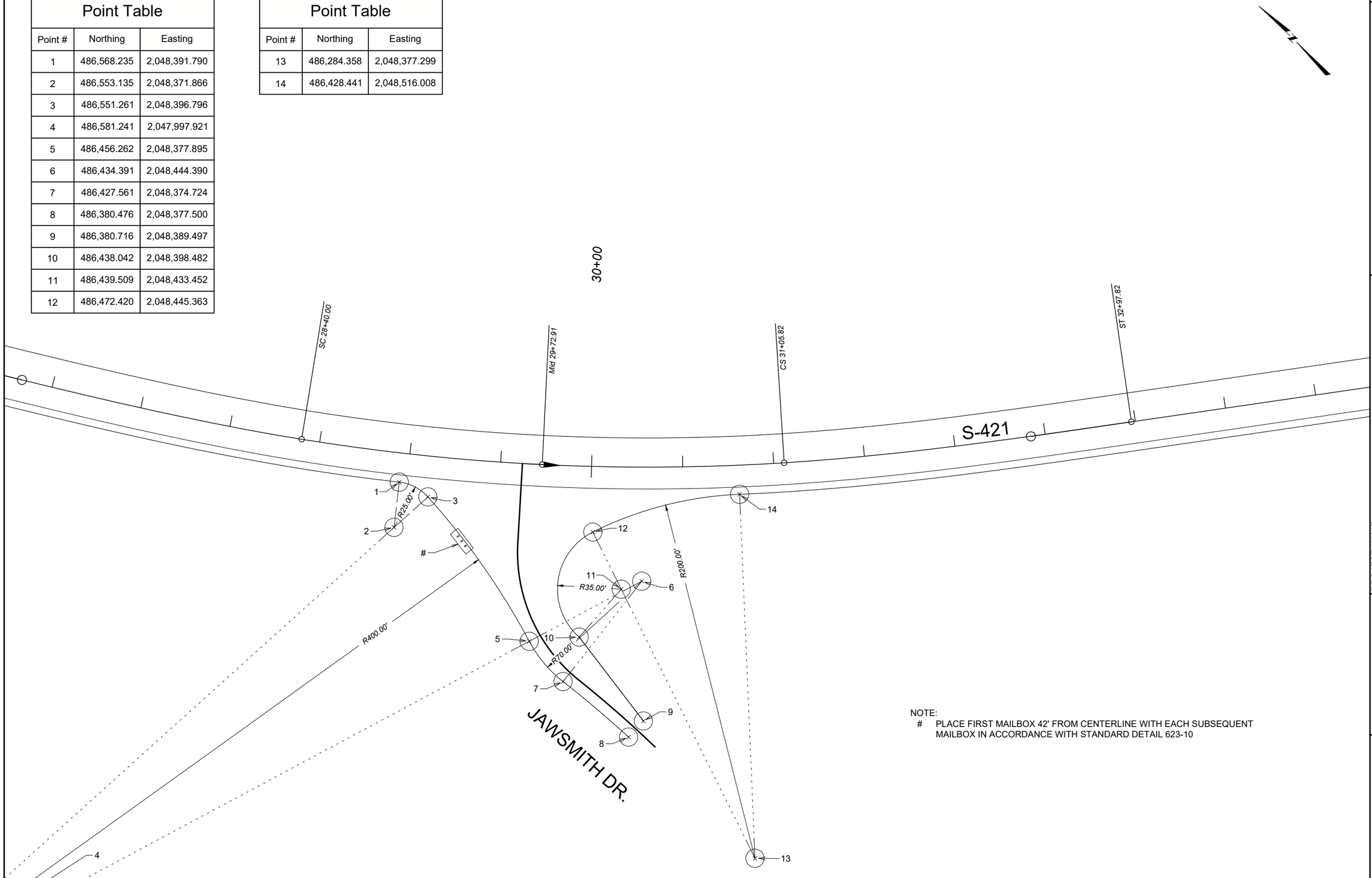
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

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Point Table		
Point #	Northing	Easting
1	486,568.235	2,048,391.790
2	486,553.135	2,048,371.866
3	486,551.261	2,048,396.796
4	486,581.241	2,047,997.921
5	486,456.262	2,048,377.895
6	486,434.391	2,048,444.390
7	486,427.561	2,048,374.724
8	486,380.476	2,048,377.500
9	486,380.716	2,048,389.497
10	486,438.042	2,048,398.482
11	486,439.509	2,048,433.452
12	486,472.420	2,048,445.363

Point Table		
Point #	Northing	Easting
13	486,284.358	2,048,377.299
14	486,428.441	2,048,516.008



NOTE:
PLACE FIRST MAILBOX 42' FROM CENTERLINE WITH EACH SUBSEQUENT MAILBOX IN ACCORDANCE WITH STANDARD DETAIL 623-10

SHEET NO.
19

GEOMETRIC DETAIL
SHEET 1 OF 2
JAWSMITH DR.
SCALE 1" = 50'

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024
T.PIERCE	
REVIEWED BY	02/2024
D. O'DELL	
CHECKED BY	11/2024
J. CERECK	

9116000GEDET001.DWG

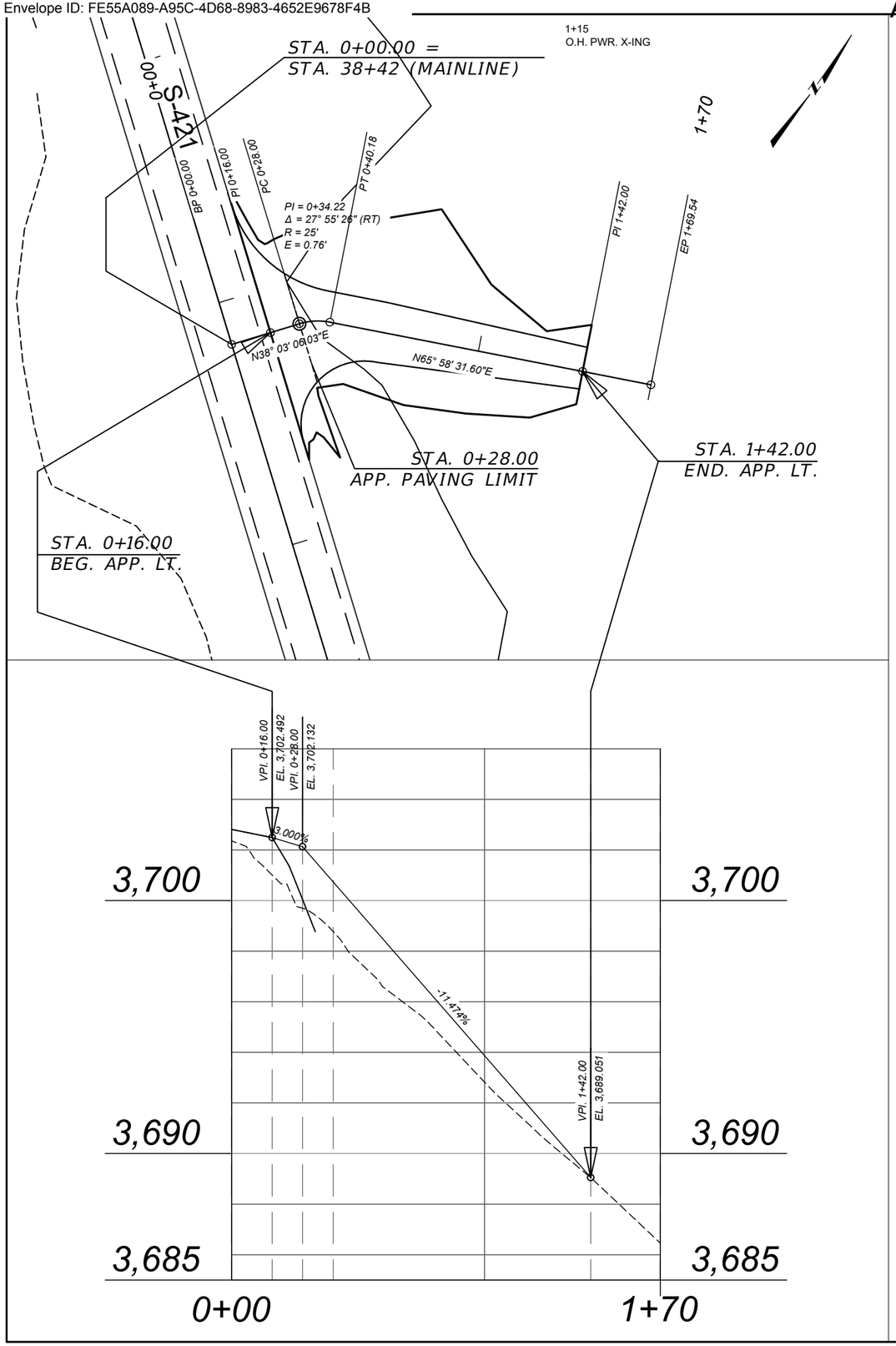
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Department of Transportation

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DETAIL

CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
0+00.00	BP	485,980.159	2,049,102.392	
0+16.00	POT	485,992.758	2,049,112.253	BEGIN FIELD APP.
0+28.00	PC	486,002.208	2,049,119.650	
0+40.18	PT	486,009.633	2,049,129.158	
1+42.00	PI	486,051.085	2,049,222.154	END FIELD APP.
1+69.54	EP	486,062.297	2,049,247.308	

ALIGNMENT – FIELD APP_104 NEW

SHEET NO.
20

FARM FIELD APP. 38+42
PLAN & PROFILE
(NO SCALE)

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY	02/2024
B HENDERSON	
REVIEWED BY	02/2024
J. BROTZLER	
CHECKED BY	11/2024
J. CERECK	

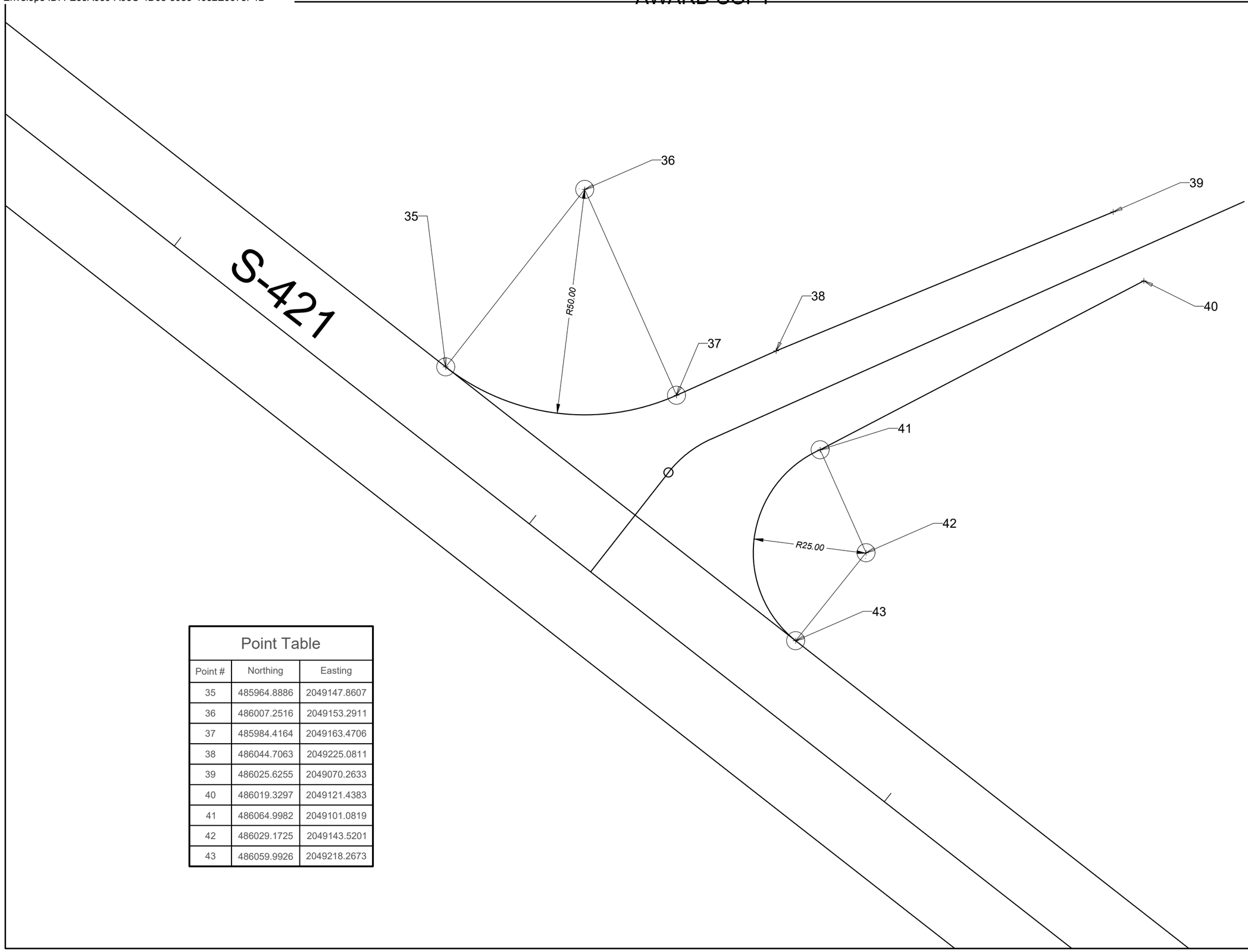
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MONTANA
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Point Table		
Point #	Northing	Easting
35	485964.8886	2049147.8607
36	486007.2516	2049153.2911
37	485984.4164	2049163.4706
38	486044.7063	2049225.0811
39	486025.6255	2049070.2633
40	486019.3297	2049121.4383
41	486064.9982	2049101.0819
42	486029.1725	2049143.5201
43	486059.9926	2049218.2673

SHEET NO.
21

GEOMETRIC DETAIL
FARM FIELD APP. 38+42
SCALE 1" = 20'

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024
B HENDERSON	
REVIEWED BY	02/2024
J. BROTZLER	
CHECKED BY	11/2024
J. CERECK	

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MONTANA
Department of Transportation

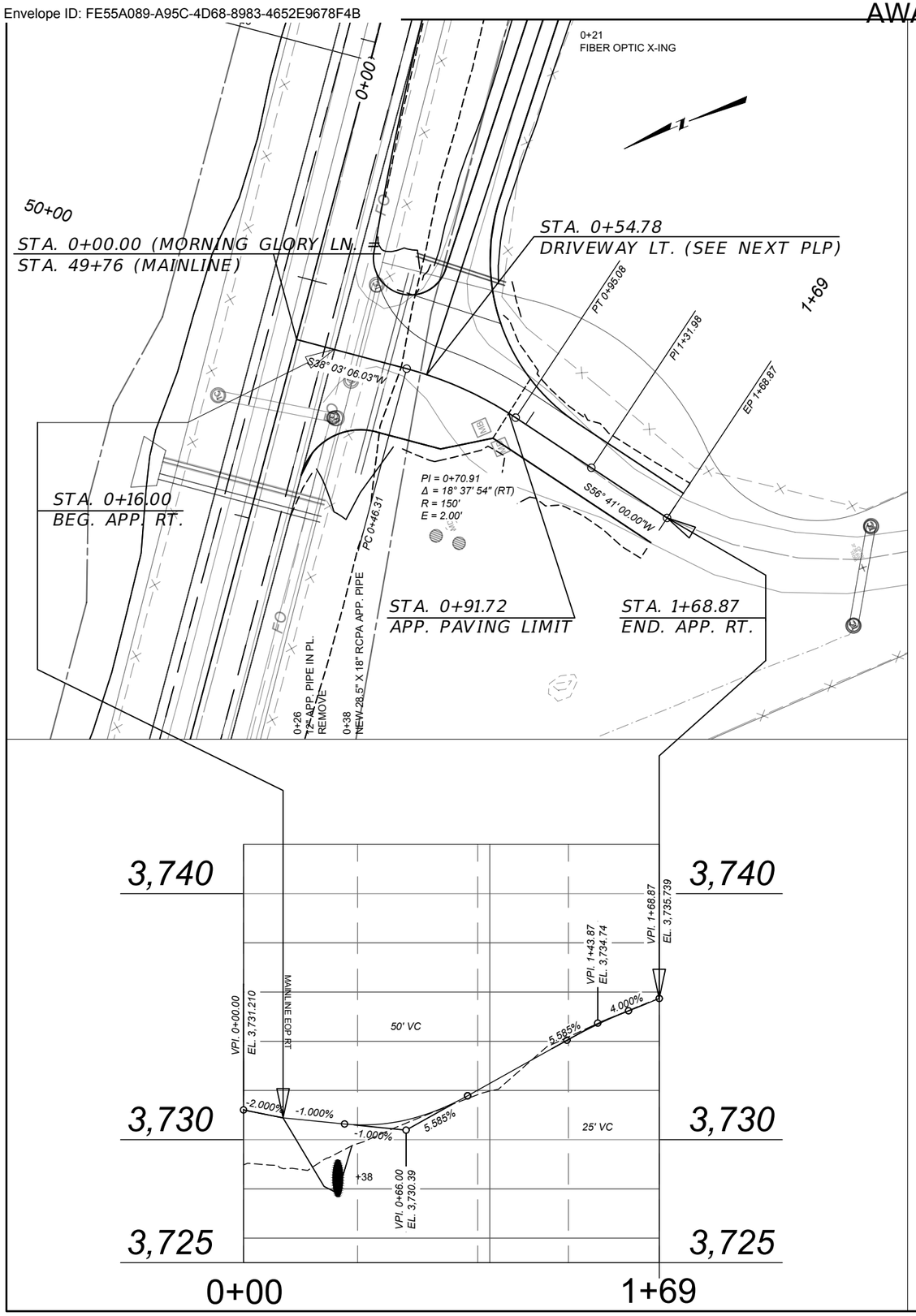
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DETAIL



CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
0+00.00	BP	485,266.490	2,050,014.150	
0+16.00	POT	485,253.933	2,050,004.234	BEGIN MORNING GLORY APP.
0+46.31	PC	485,230.027	2,049,985.609	
0+95.08	PT	485,197.135	2,049,949.880	
1+31.98	POT	485,176.871	2,049,919.050	
1+68.87	EP	485,156.606	2,049,888.220	END MORNING GLORY APP.

ALIGNMENT – MORNING_GLORY_CL

SHEET NO. 22

MORNING GLORY LANE
APP. PLAN & PROFILE
(NO SCALE)

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

9116000RDPLP101.DWG

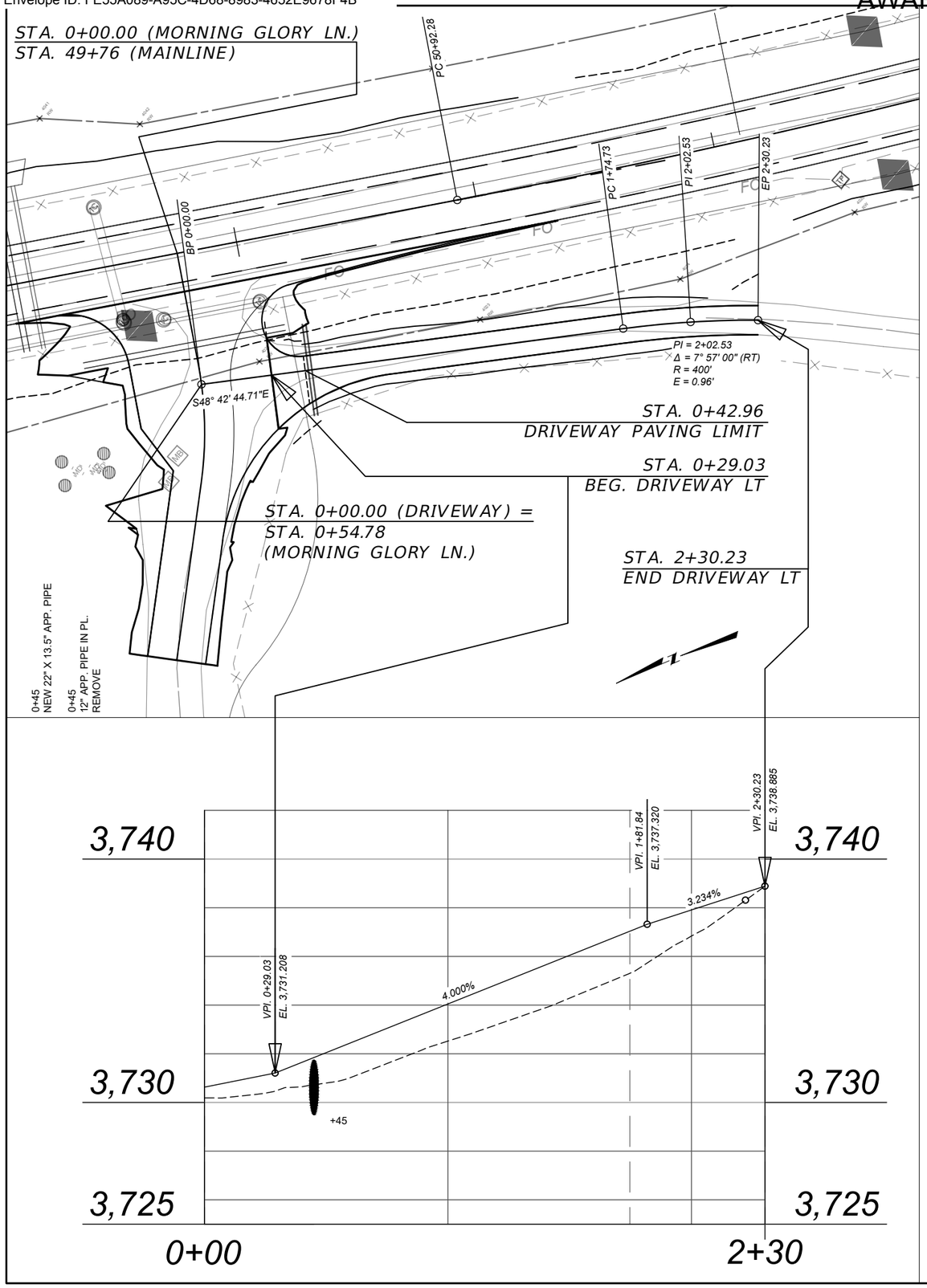
MONTANA
Department of Transportation

PLANS

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DETAIL

CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
0+00.00	BP	485,223.507	2,049,980.202	
0+29.03	PI	485,204.352	2,050,002.015	BEGIN MORNING GLORY APP.
1+74.73	PC	485,108.211	2,050,111.497	
2+30.23	EP	485,068.818	2,050,150.531	END MORNING GLORY APP.

ALIGNMENT - MORNING_GLORY_DRIVEWAY_CL

SHEET NO. 23

MORNING GLORY DRIVEWAY PLAN & PROFILE (NO SCALE)

MONTANA Department of Transportation

PLANS

DESIGNED BY	B HENDERSON	02/2024	
REVIEWED BY	J. BROTZLER	02/2024	
CHECKED BY	J. CERECK	11/2024	

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

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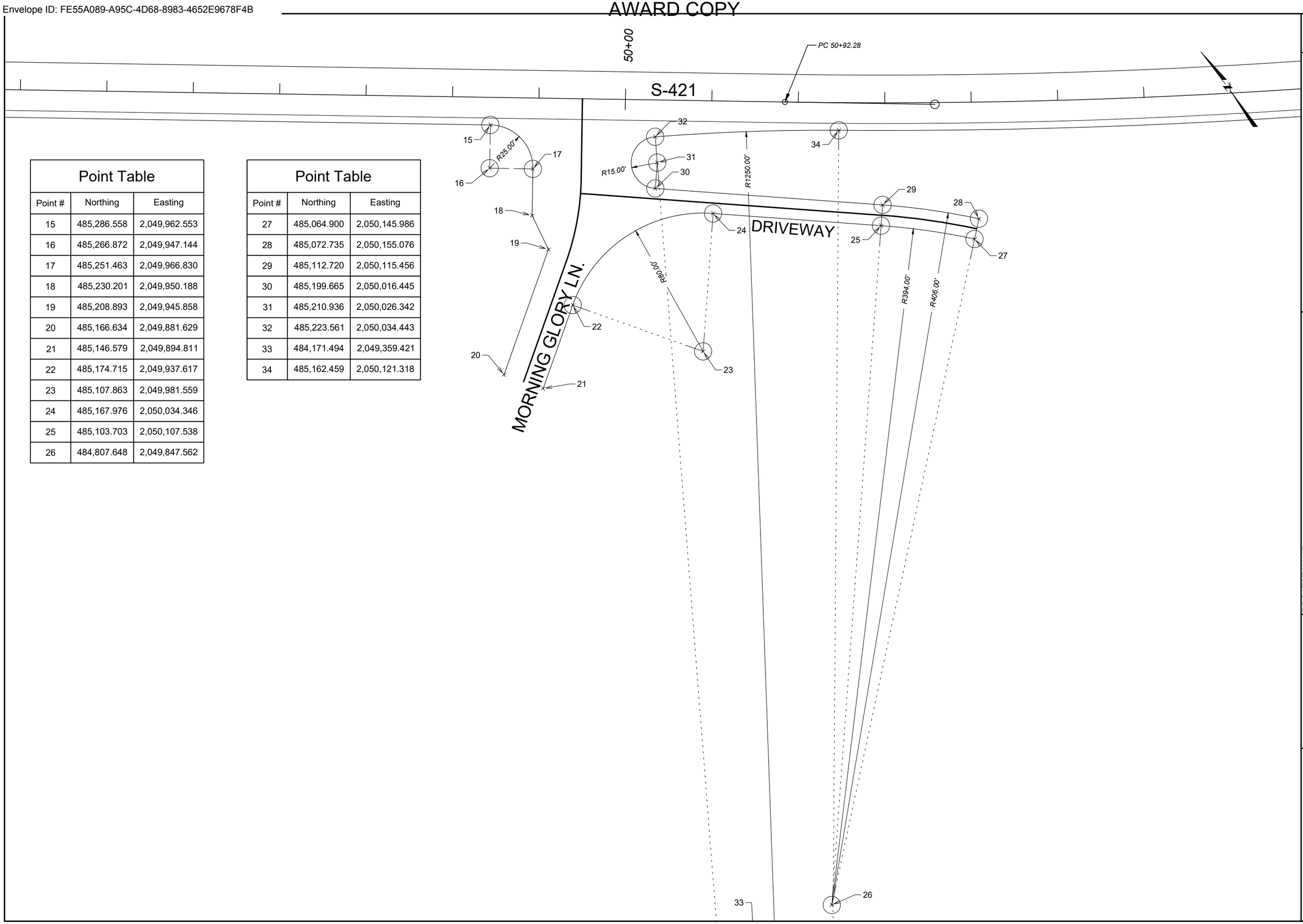
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

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Point Table		
Point #	Northing	Easting
15	485,286.558	2,049,962.553
16	485,266.872	2,049,947.144
17	485,251.463	2,049,966.830
18	485,230.201	2,049,950.188
19	485,208.893	2,049,945.858
20	485,166.634	2,049,881.629
21	485,146.579	2,049,894.811
22	485,174.715	2,049,937.617
23	485,107.863	2,049,981.559
24	485,167.976	2,050,034.346
25	485,103.703	2,050,107.538
26	484,807.648	2,049,847.562

Point Table		
Point #	Northing	Easting
27	485,064.900	2,050,145.986
28	485,072.735	2,050,155.076
29	485,112.720	2,050,115.456
30	485,199.665	2,050,016.445
31	485,210.936	2,050,026.342
32	485,223.561	2,050,034.443
33	484,171.494	2,049,359.421
34	485,162.459	2,050,121.318



SHEET NO.
24

GEOMETRIC DETAIL
SHEET 2 OF 2
MORNING GLORY LN.
SCALE 1" = 50'

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID

COUNTY: STILLWATER COUNTY

PROJECT ID: HSIP 421-1(13)5

UPN: 9116000

DESIGNED BY	T. PIERCE	02/2024
REVIEWED BY	D. O'DELL	02/2024
CHECKED BY	J. CERECK	11/2024

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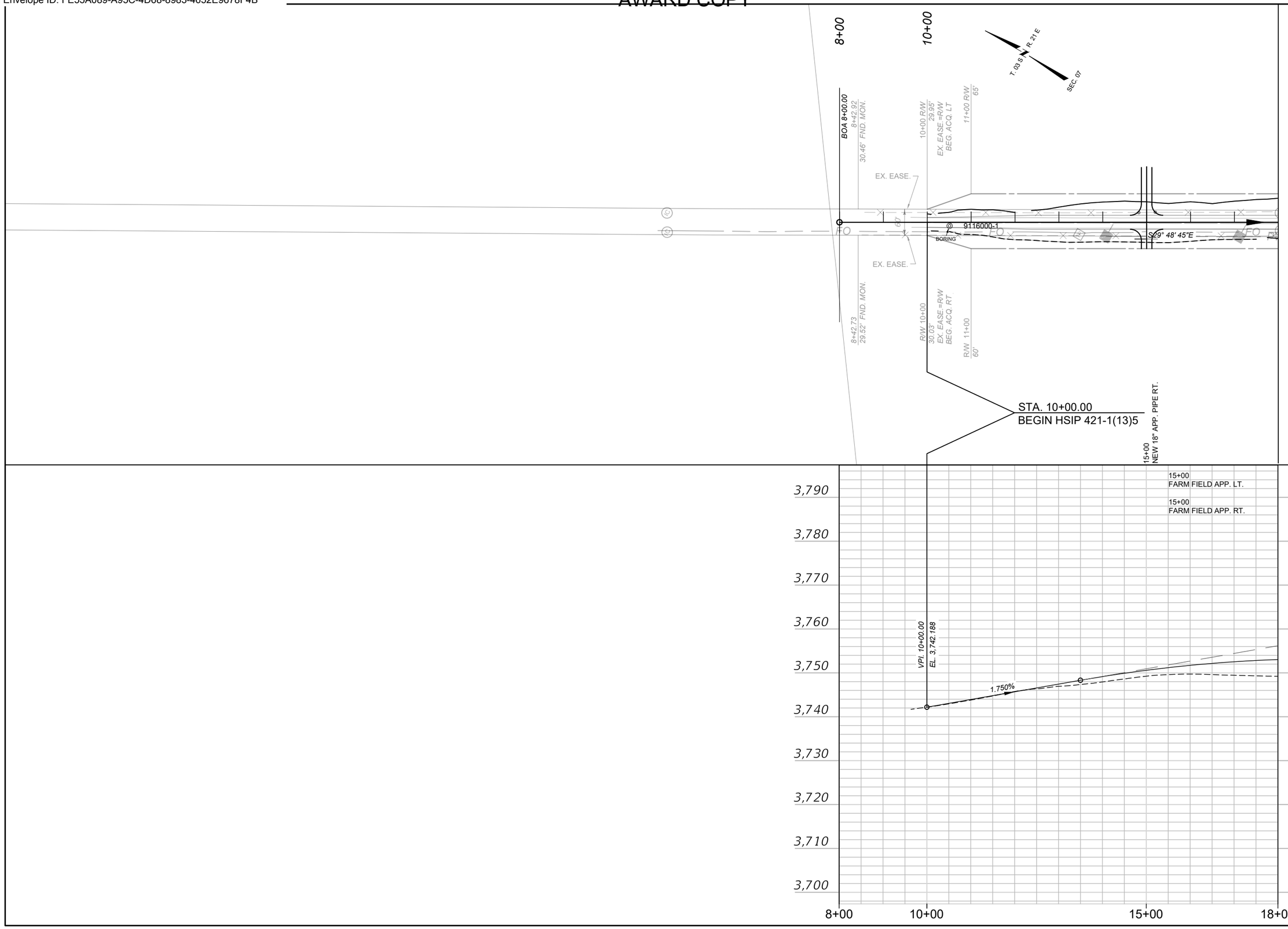
MONTANA
Department of Transportation

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SHEET NO.
25

PLAN & PROFILE

PROJECT NAME	SF 159 SE COLUMBUS SHLDR WID		
COUNTY	STILLWATER COUNTY		
PROJECT ID	HSIP 421-1(13)5		
UPN	9116000		
B HENDERSON	02/2024		
J. BROTZLER	02/2024		
J. CERECK	11/2024		

9116000RDPLP100.DWG

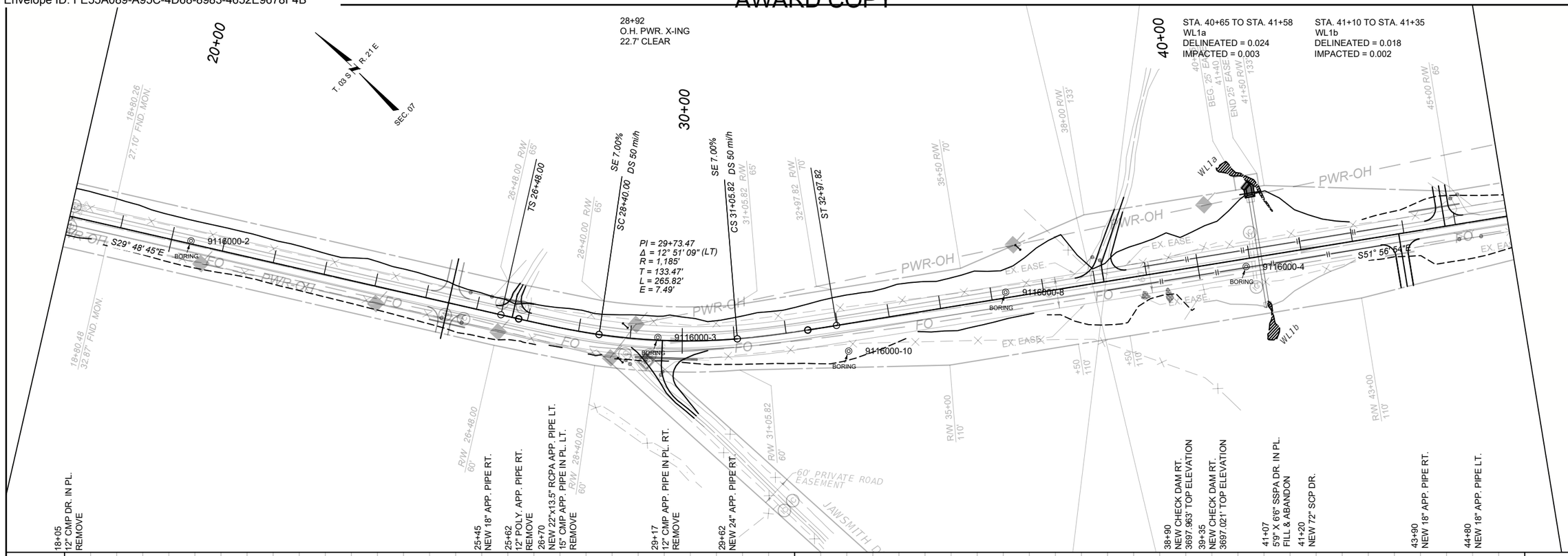
MONTANA
Department of Transportation

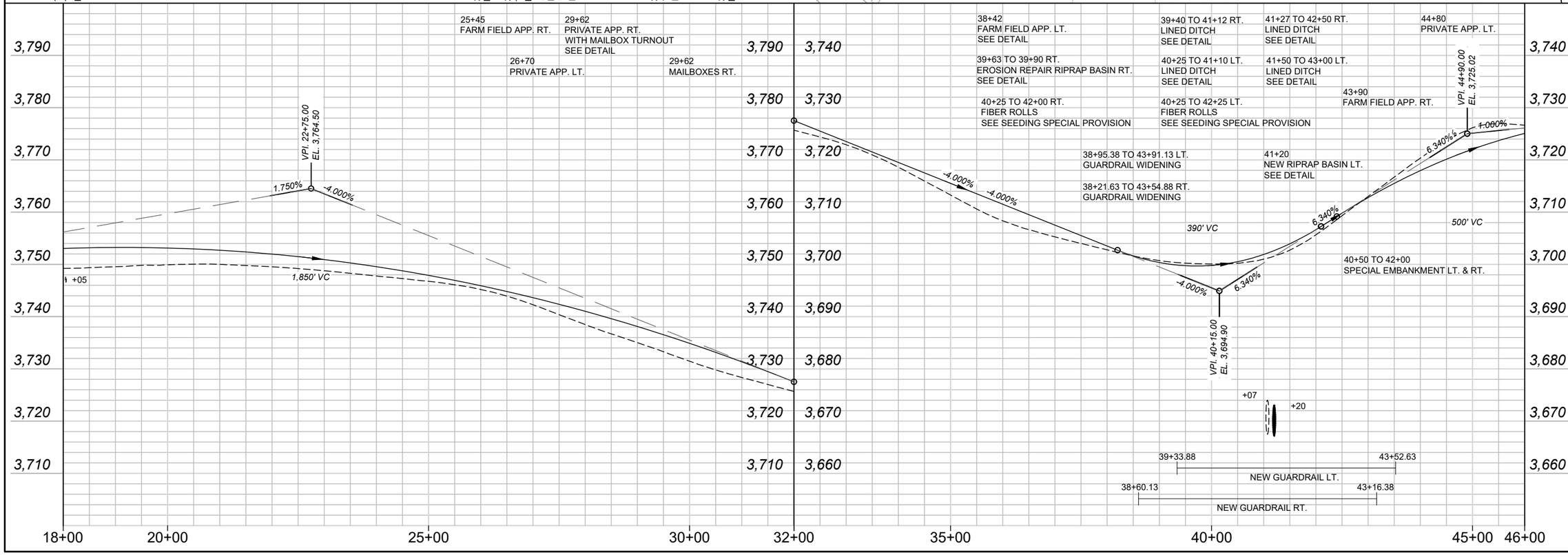
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SHEET NO. 26

PLAN & PROFILE

PROJECT NAME	SF 159 SE COLUMBUS SHLDR WID
COUNTY	STILLWATER COUNTY
PROJECT ID	HSIP 421-1(13)5
UPN	9116000

B HENDERSON	02/2024		
J. BROTZLER	02/2024		
J. CERECK	11/2024		

9116000RDPLP100.DWG

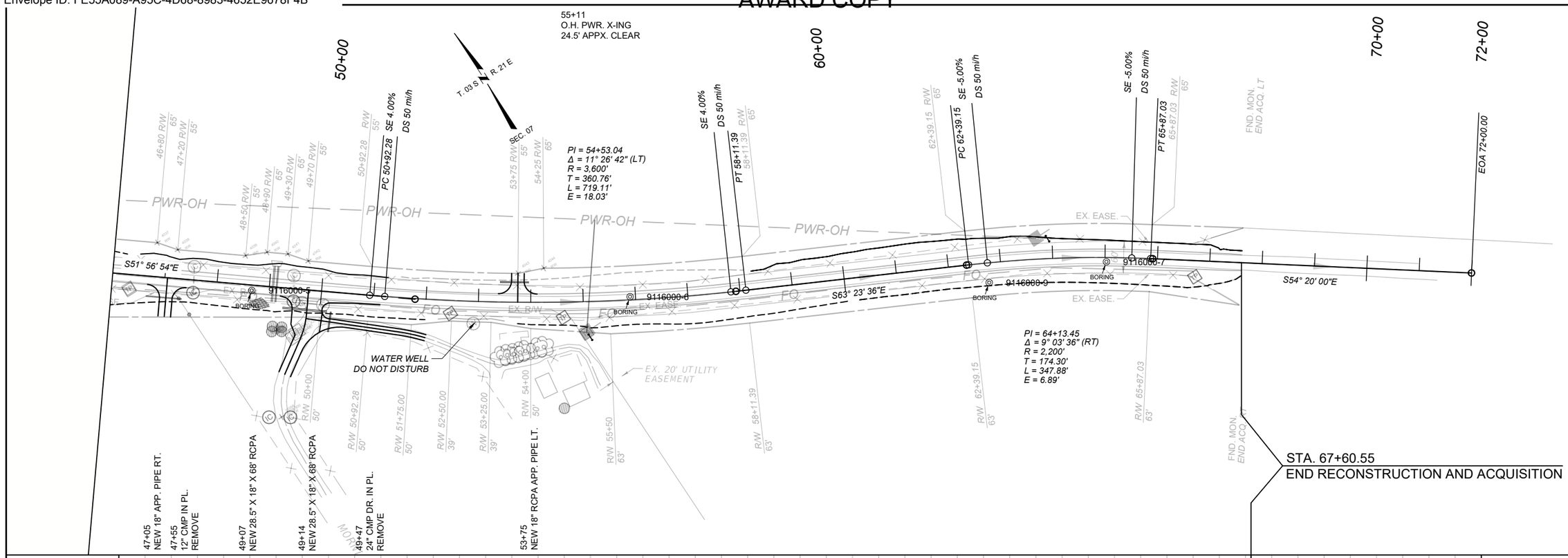
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PLANS

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AWARD COPY



SHEET NO.
27

PLAN & PROFILE

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

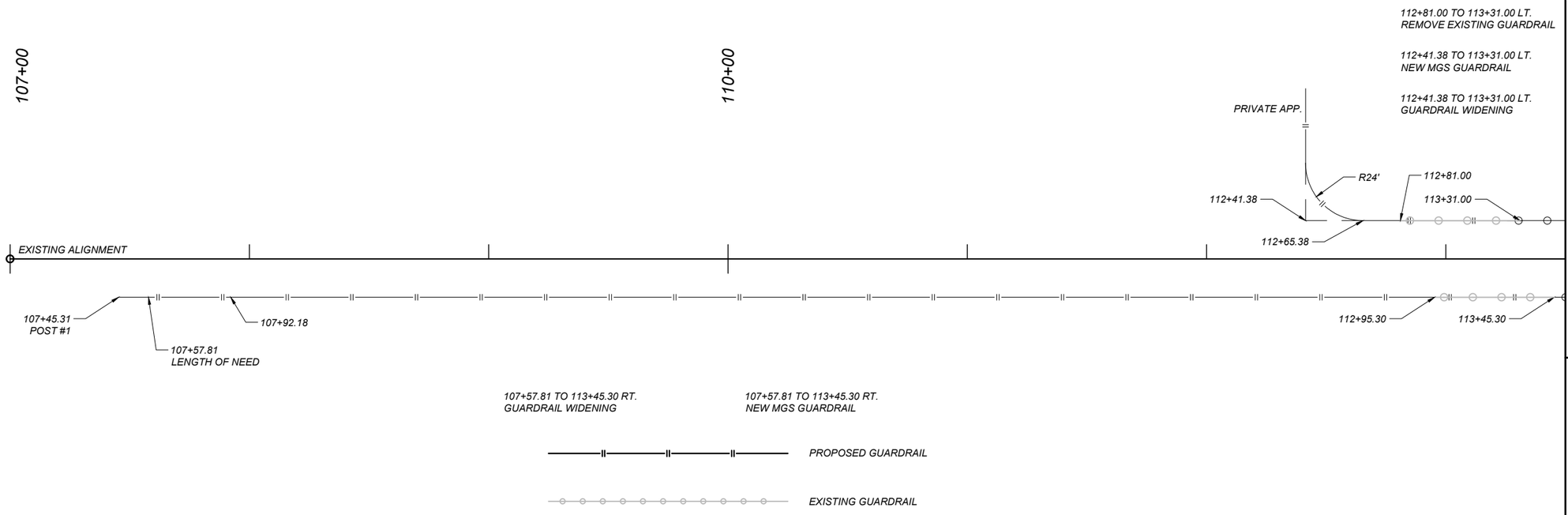
B HENDERSON	02/2024	
J. BROTZLER	02/2024	
J. CERECK	11/2024	9116000RDPLP100.DWG

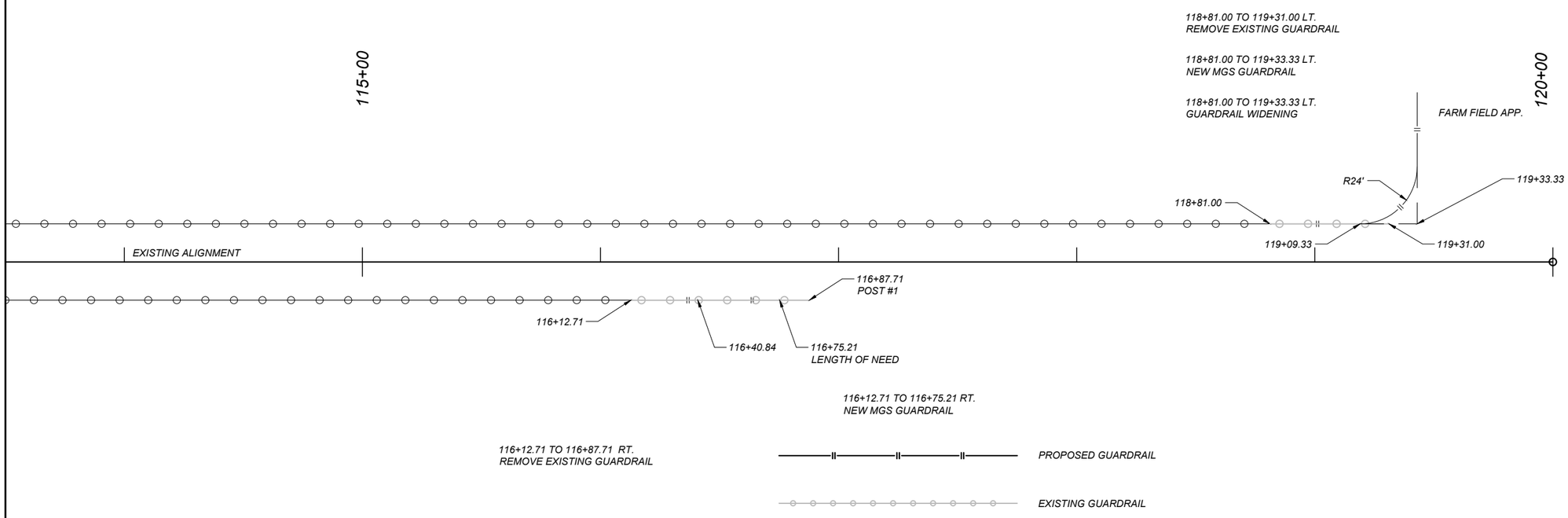
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Department of Transportation

PLANS

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SHEET NO. 28

STRAIGHT LINE DIAGRAM

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

9116000RDSTR100.DWG

MONTANA Department of Transportation

PLANS

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NOTES AND ABBREVIATIONS:

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

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.) FOR USE ON EXIT PANELS ON GUIDE SIGNS

BBR = BACKBRACING REQUIRED. SEE DETAILED DRAWINGS.

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	90.8	SQUARE FOOT
REMOVE SIGN	10	EACH
POSTS-STEEL U SIGN	57	POUND
POLES-TREATED WOOD 4 IN	168	FOOT
DELINEATOR TYPE 1	92	EACH

DELINEATION SPECIFICATIONS

SYMBOL	DESIGN	TOTALS
⊣	A	88
⊣⊢	D	4

PRELIMINARY

SHEET NO. S1

SIGNING SUMMARY
FRAMES AND NOTES

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY: S WATSON 05/2024
REVIEWED BY:
CHECKED BY: N STYREN 08/2024

MONTANA Department of Transportation

SIGNING PLANS

9116000SIUM001.DWG

9/12/2024 8:28 AM

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PRELIMINARY

SIGN LOCATION				SIGN PANEL SPECIFICATIONS								SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES										ADDITIONAL SIGN 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.)				REMV		RESET		SIGN IMAGE	SIGN TEXT & 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		
19+87		EB																															
		X		D10-1	10	X	18			MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.3						2.5						19	1				MILE 5	REPLACE - REFERENCE POST (5)
25+23		EB																															
		X		W1-2L	30	X	30	FY				10.0	4" Treated Wood Pole		5.0		3.0	13.3						6.3		14									NEW - CURVE LEFT
28+93		EB																															
		X		BY OTHERS																													JAWSMITH DR	USE AS IS - BY OTHERS - PRIVATE - JAWSMITH DR W/ ANIMAL SIGNS BELOW
34+23		EB																															
X				W1-2R	30	X	30	FY				10.0	4" Treated Wood Pole		5.0		3.0	13.3						6.3		14									NEW - CURVE RIGHT
48+67		EB																															
		X		W1-2L	30	X	30	FY				10.0	4" Treated Wood Pole		5.0		3.0	13.3						6.3		14									NEW - CURVE LEFT
50+02		EB																															
		X		D3 (2x)	30	X	18			MBB		6.0	4" Treated Wood Pole		5.0		3.0	13.3						7.5		14						1			MORNING GLORY LN	REPLACE - D3 - MORNING GLORY LN
				R1-1	30	X	30																		5.2									STOP	REPLACE - STOP
59+37		EB																															
X				W1-2R	30	X	30					10.0	4" Treated Wood Pole				3.0	13.3						6.3		14									NEW - CURVE RIGHT
61+14		EB																															
		X		W1-2R	30	X	30					10.0	4" Treated Wood Pole				3.0	13.3						6.3		14									NEW - CURVE RIGHT
67+13		EB																															
X				W1-2L	30	X	30	FY				10.0	4" Treated Wood Pole		5.0		3.0	13.3						6.3		14						1			REPLACE - CURVE LEFT
68+38		EB																															
X				R2-1	24	X	30					10.0	4" Treated Wood Pole		5.0		3.0	12.3						5.0		14						1			SPEED LIMIT 60	REPLACE - SPEED LIMIT (60)
68+38		EB																															
		X		R2-1	24	X	30					10.0	4" Treated Wood Pole		5.0		3.0	12.3						5.0		14						1			SPEED LIMIT 60	REPLACE - SPEED LIMIT (60)
73+22		EB																															
		X		D10-1	10	X	18			MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.3						2.5						19	1				MILE 6	REPLACE - REFERENCE POST (6)
89+57		EB																															
		X		D3 (2x)	36	X	10			MBB		6.0	4" Treated Wood Pole		5.0		3.0	12.7						5.0		14						1			SKIBSTAD RD	REPLACE - D3 - SKIBSTAD RD
				R1-1	30	X	30																		5.2									STOP	REPLACE - STOP
96+19		EB																															
		X		W1-2L																											1				REMOVE - CURVE LEFT

SHEET NO. S2

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID

COUNTY: STILLWATER

PROJECT ID: HSIP 421-1(13)5

UPN: 9116000

DESIGNED BY: S WATSON 05/2024

REVIEWED BY:

CHECKED BY: N STYREN 08/2024

9116000SIGSUM001.DWG

MONTANA Department of Transportation

SIGNING PLANS

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PRELIMINARY

SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL SIGN 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.)				REMV		RESET		SIGN IMAGE	SIGN TEXT & 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		
97+56		EB																																	
		X		W1-4L	30 X 30			FY				10.0	4" Treated Wood Pole		5.0		3.0	13.3						6.3		14									NEW - REVERSE CURVE LEFT
112+84		NB																																	
X				W1-2R																											1				REMOVE - CURVE RIGHT
121+28		EB																																	
X				W1-2R	30 X 30			FY				5.0	4" Treated Wood Pole		5.0		3.0	13.3						6.3		14									NEW - REVERSE CURVE LEFT
126+05		EB																																	
		X		D10-1	10 X 18					MBB		4.0	2.0lb Steel U Post		4.0		3.0	9.3						2.5							19	1				REPLACE - REFERENCE POST (7)
													PROJECT TOTALS											90.8		168					57	10			

SHEET NO.
S3

SIGN LOCATIONS AND SPECIFICATIONS

MONTANA
Department of Transportation

SIGNING PLANS

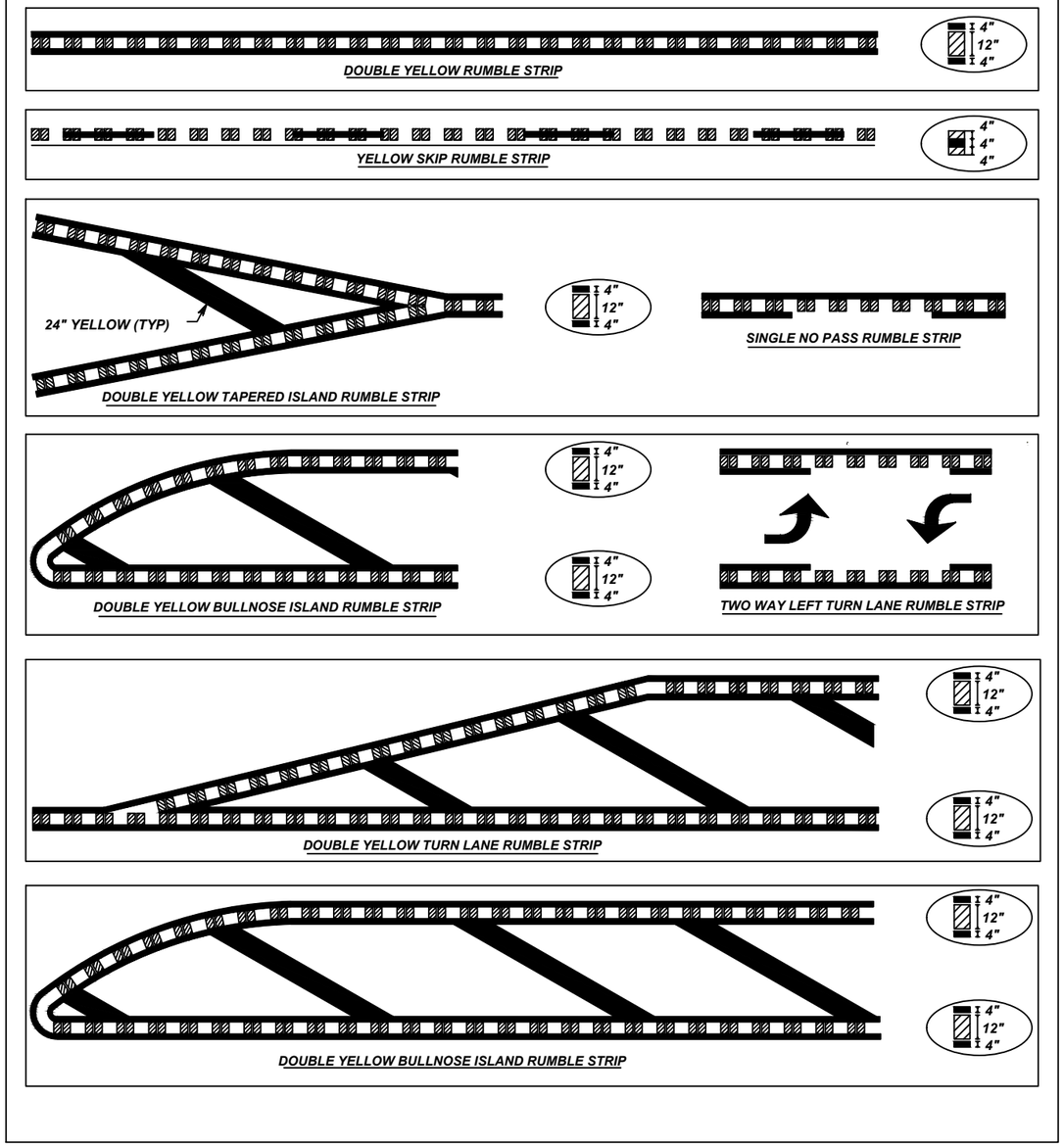
DESIGNED BY	S WATSON 05/2024
REVIEWED BY	
CHECKED BY	N STYREN 08/2024
PROJECT NAME	SF 159 SE COLUMBUS SHLDR WID
COUNTY	STILLWATER
PROJECT ID	HSIP 421-1(13)5
UPN	9116000

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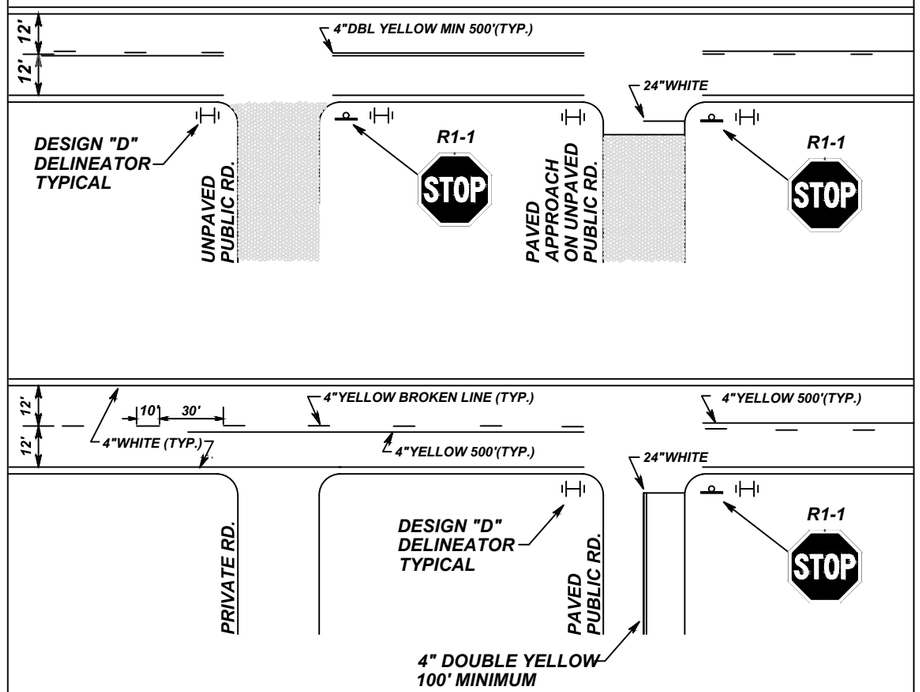
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TYPICAL RURAL CENTERLINE PAVEMENT MARKINGS AND RUMBLE STRIPS.
SEE ROAD DESIGN PLANS FOR RUMBLE STRIP QUANTITY (IF USED)



TYPICAL RURAL PAVEMENT MARKINGS

NO SCALE



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

ALL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE SPECIFIED.

NOTES:

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

SHEET NO.
S4

DETAILS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	S WATSON	05/2024	
REVIEWED BY			
CHECKED BY	N STYREN	08/2024	

MONTANA Department of Transportation

SIGNING PLANS

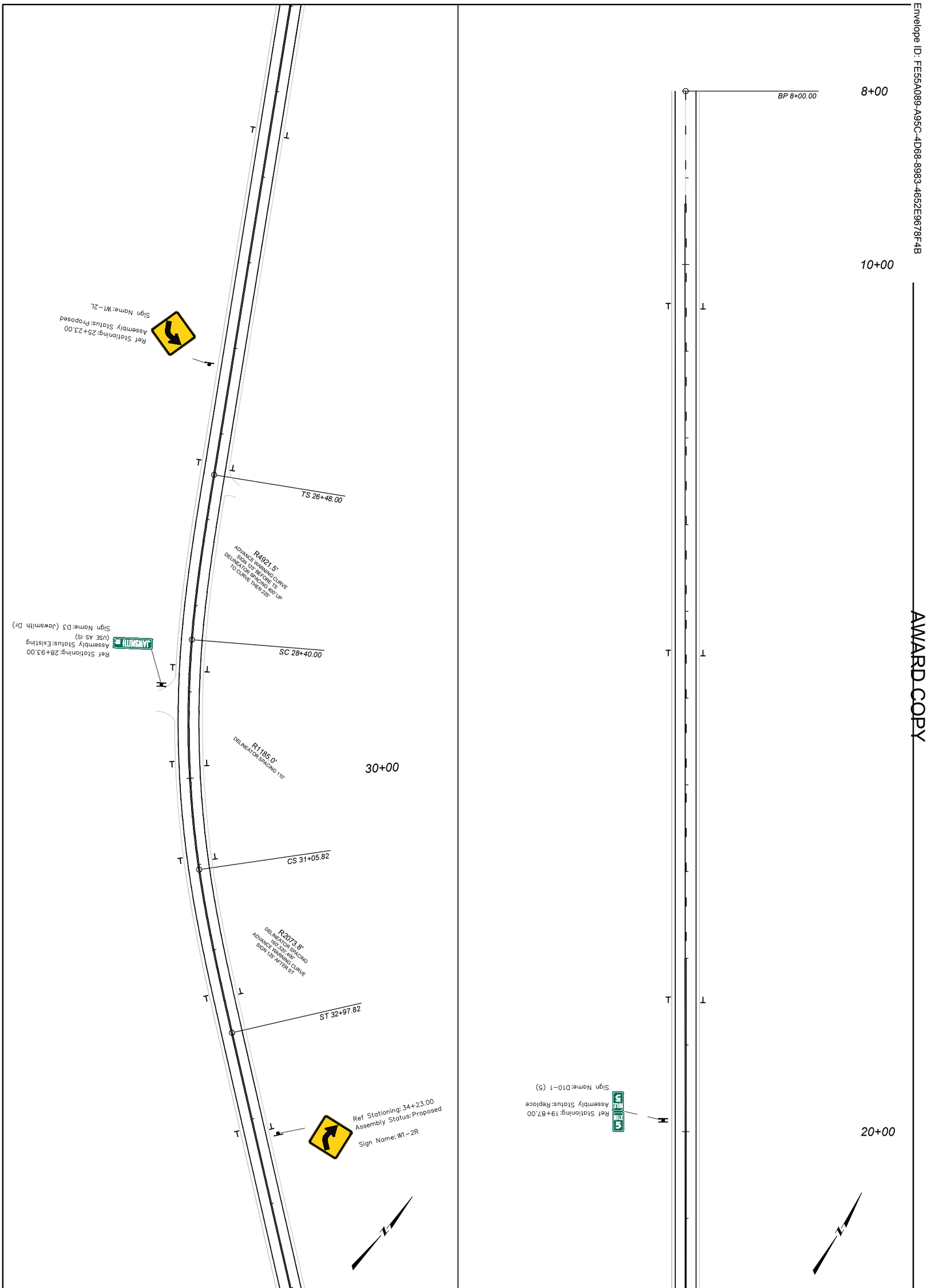
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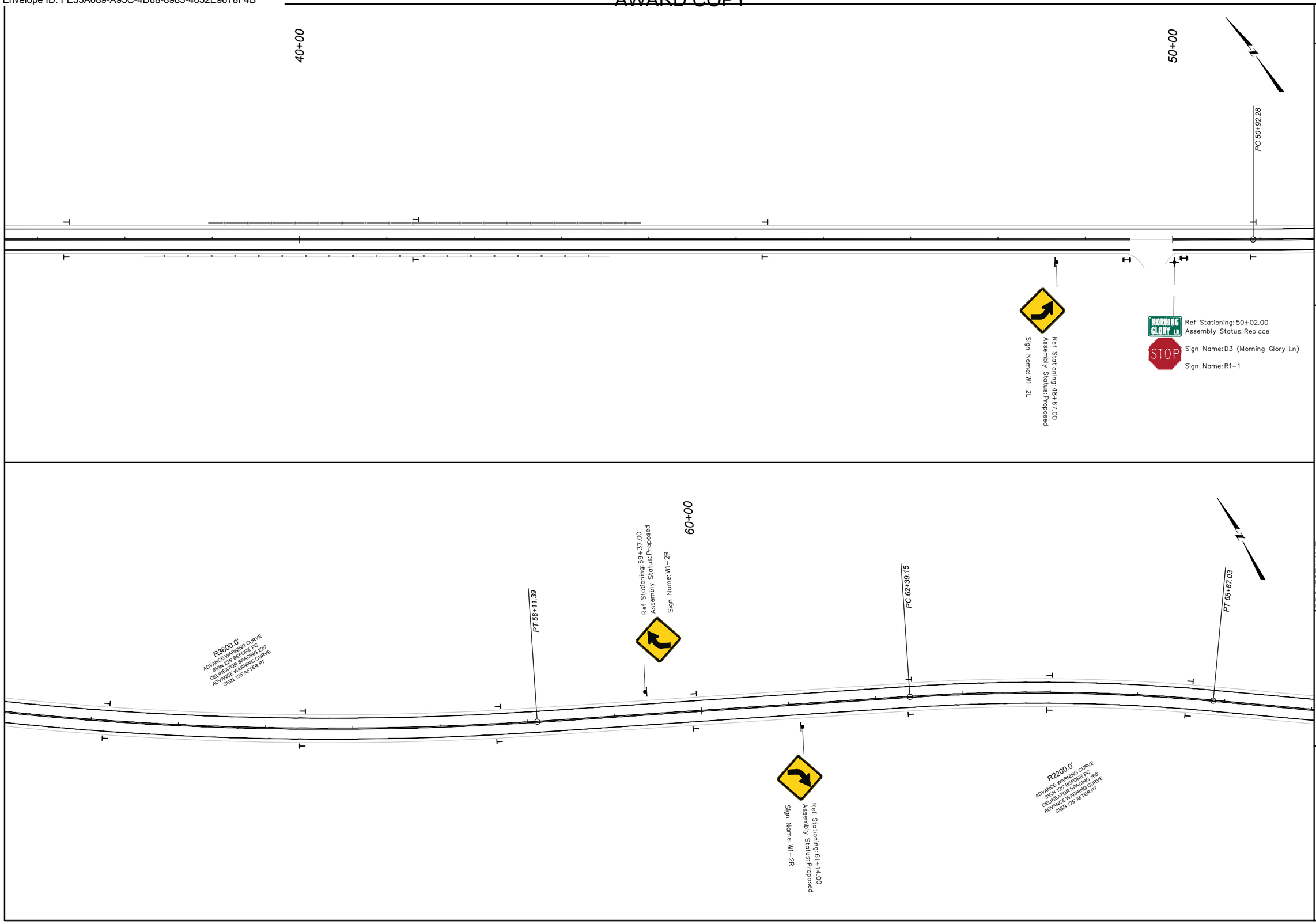


MONTANA Department of Transportation	DESIGNED BY: S WATSON 05/2024	PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID	PLANS
SIGNING PLANS	REVIEWED BY:	COUNTY: STILLWATER	SHEET NO. S5
9/12/2024 8:28 AM	CHECKED BY: N STYREN 08/2024	PROJECT ID: HSIP 421-1(13)5	
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PRELIMINARY



SHEET NO.
S6

PLANS

PROJECT NAME: **SF 159 SE COLUMBUS SHLDR WID**
COUNTY: **STILLWATER**
PROJECT ID: **HSIP 421-1(13)5**
UPN: **9116000**

DESIGNED BY	05/2024
S WATSON	
REVIEWED BY	
CHECKED BY	08/2024
N STYREN	

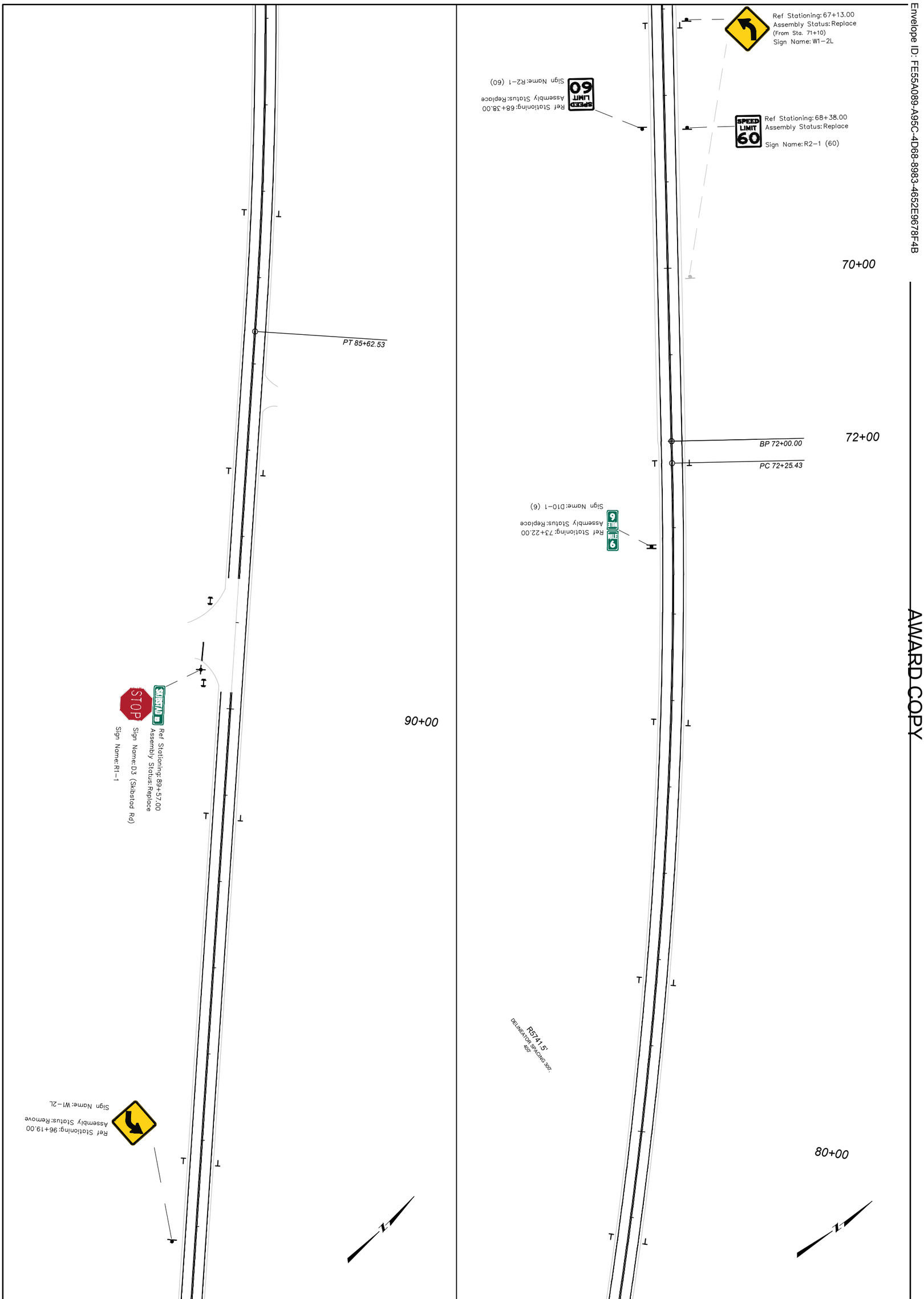
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Department of Transportation

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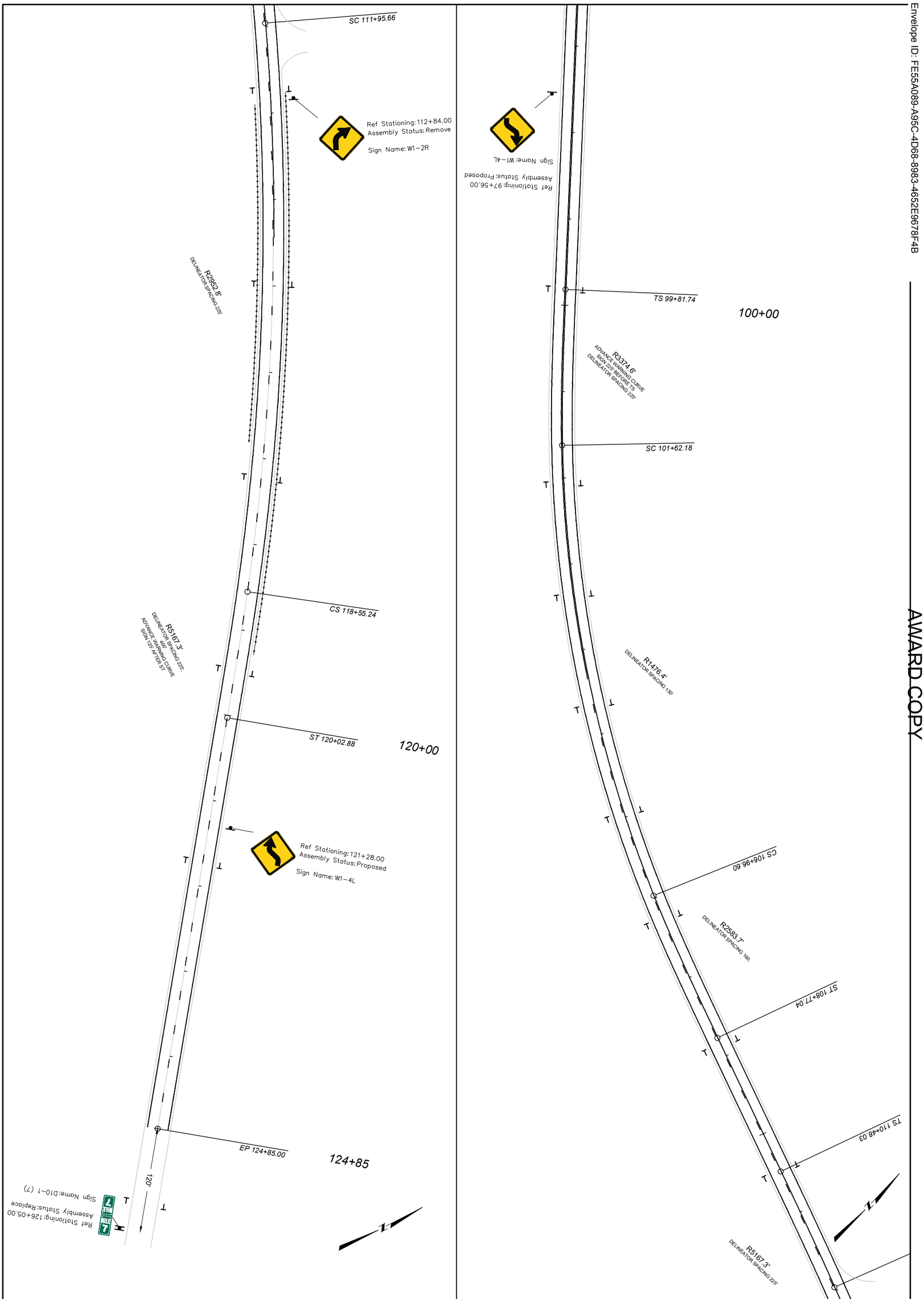
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MONTANA Department of Transportation	DESIGNED BY: S WATSON 05/2024	PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID	PLANS
SIGNING PLANS	REVIEWED BY:	COUNTY: STILLWATER	SHEET NO. S7
9/12/2024 8:28 AM	CHECKED BY: N STYREN 08/2024	PROJECT ID: HSIP 421-1(13)5	
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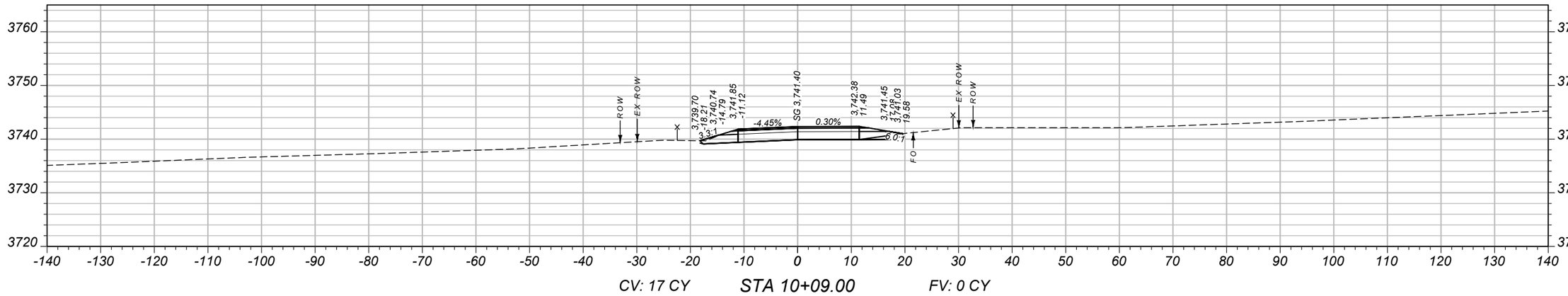
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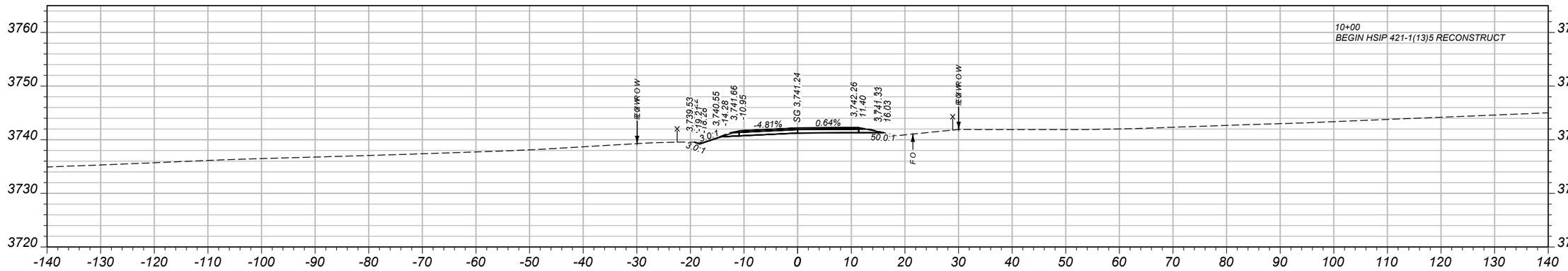
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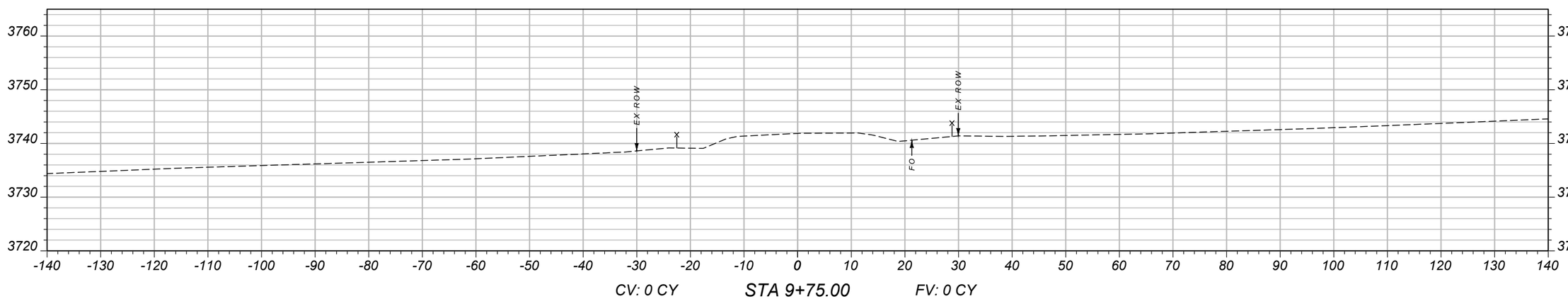


MONTANA Department of Transportation	DESIGNED BY: S WATSON 05/2024	PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID	PLANS
SIGNING PLANS	REVIEWED BY:	COUNTY: STILLWATER	SHEET NO. S8
9/12/2024 8:28 AM	CHECKED BY: N STYREN 08/2024	PROJECT ID: HSIP 421-1(13)5	
9116000SIPLN001.DWG		UPN: 9116000	

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B







SHEET NO.
1

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

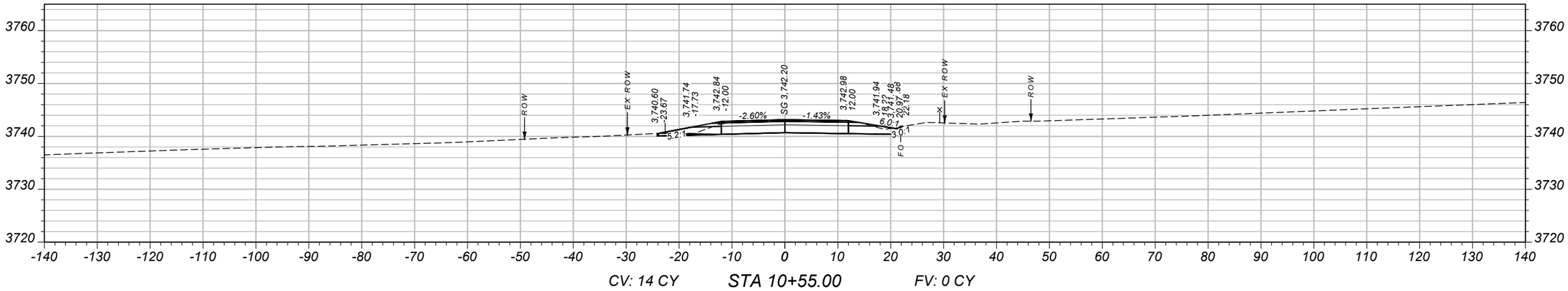
MONTANA
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CROSS SECTIONS

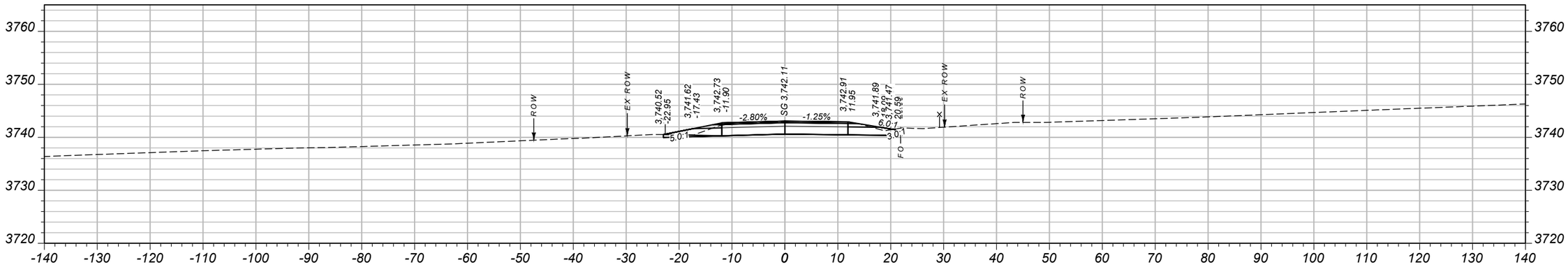
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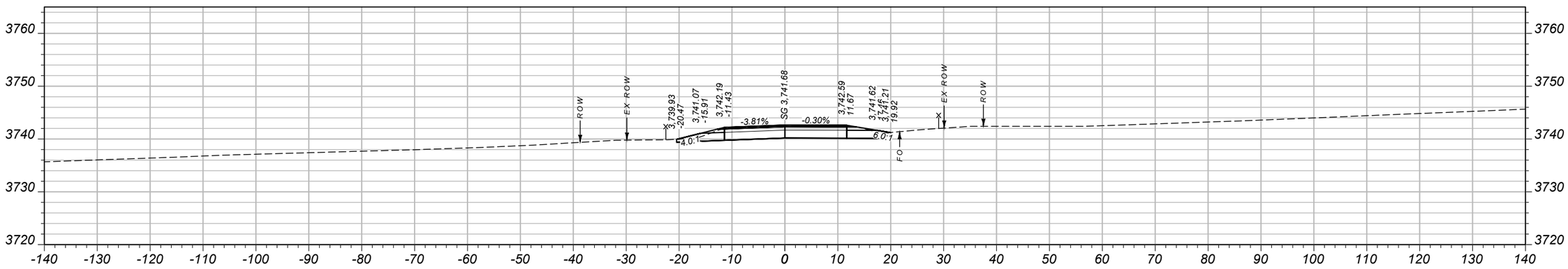
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CV: 14 CY STA 10+55.00 FV: 0 CY



CV: 71 CY STA 10+50.00 FV: 0 CY



CV: 45 CY STA 10+25.00 FV: 0 CY

SHEET NO.
2

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. CERECK	
REVIEWED BY	02/2024		
J. BROTZLER			

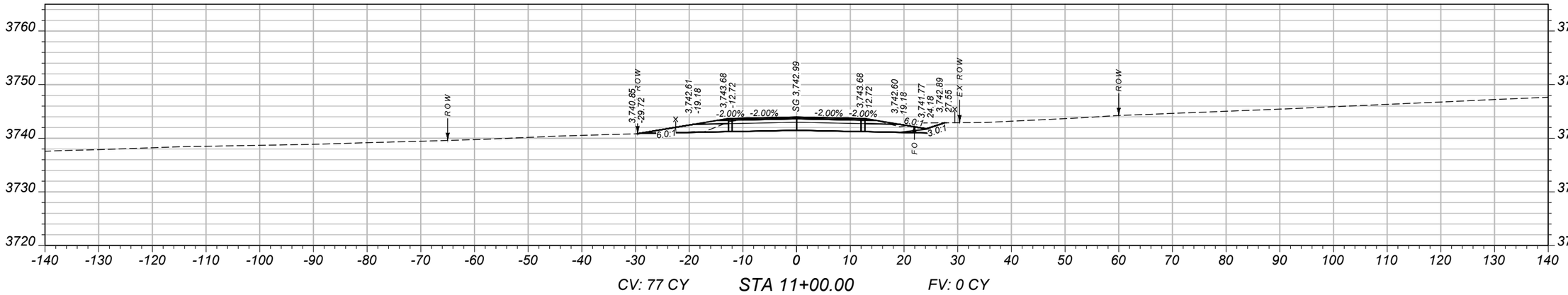
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MONTANA
Department of Transportation

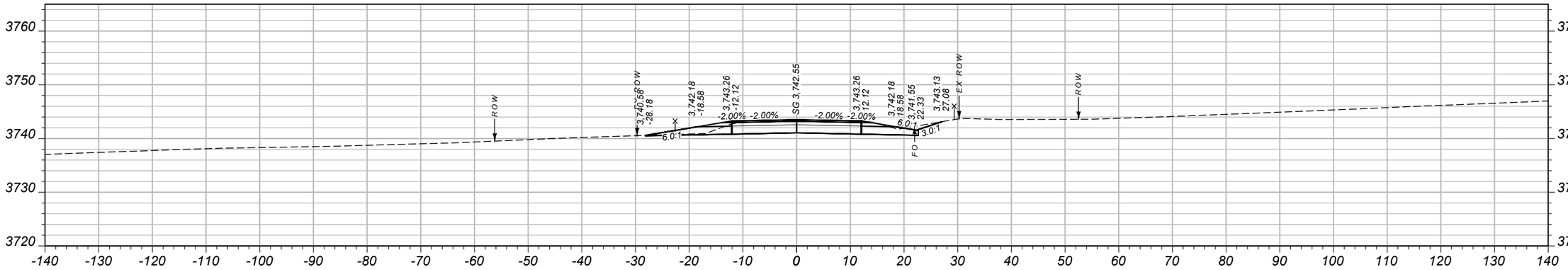
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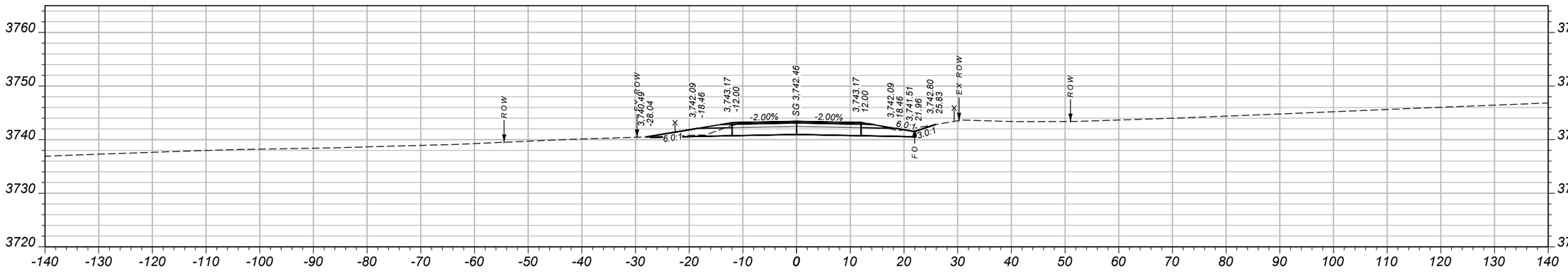
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CV: 77 CY STA 11+00.00 FV: 0 CY



CV: 15 CY STA 10+75.00 FV: 0 CY



CV: 44 CY STA 10+70.00 FV: 0 CY

SHEET NO.
3

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

9116000RDXSF200.DWG

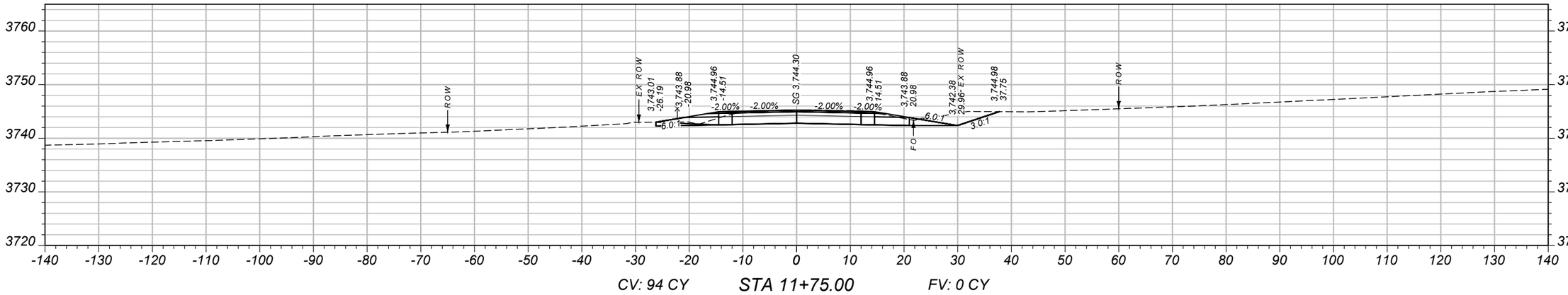
MONTANA
Department of Transportation

CROSS SECTIONS

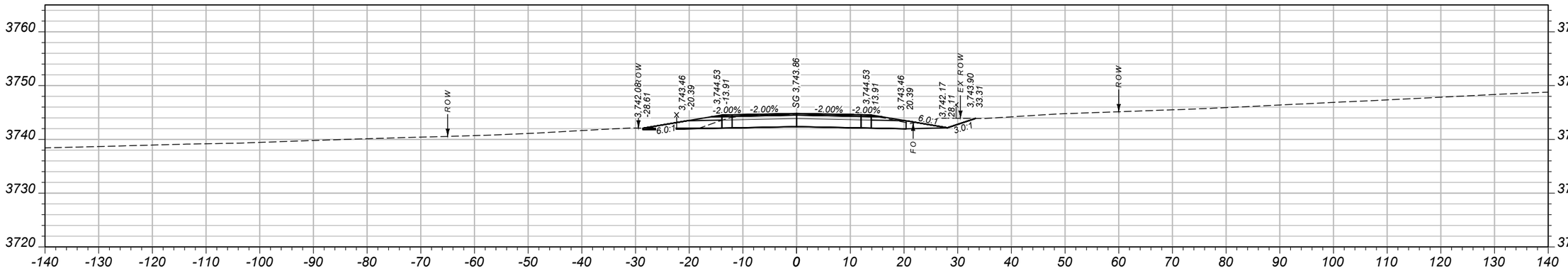
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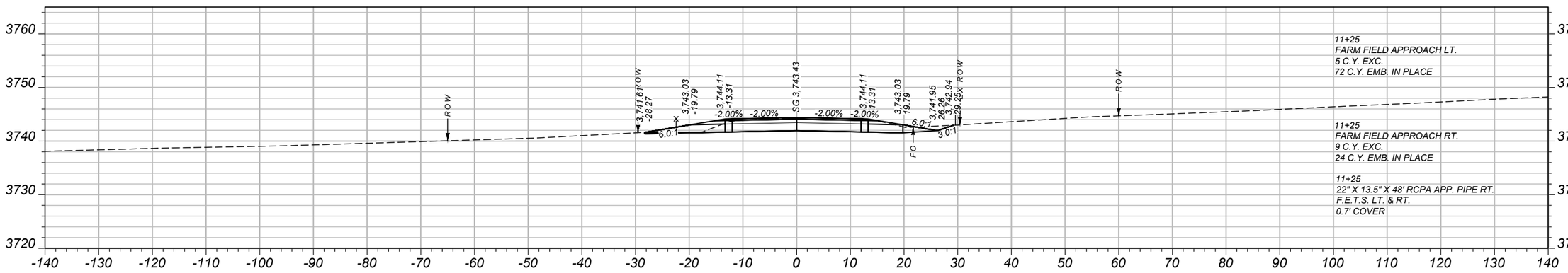
AWARD COPY



CV: 94 CY STA 11+75.00 FV: 0 CY



CV: 83 CY STA 11+50.00 FV: 0 CY



CV: 78 CY STA 11+25.00 FV: 0 CY

11+25
FARM FIELD APPROACH LT.
5 C.Y. EXC.
72 C.Y. EMB. IN PLACE

11+25
FARM FIELD APPROACH RT.
9 C.Y. EXC.
24 C.Y. EMB. IN PLACE

11+25
22" X 13.5" X 48' RCPA APP. PIPE RT.
F.E.T.S. LT. & RT.
0.7' COVER

SHEET NO.
4

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

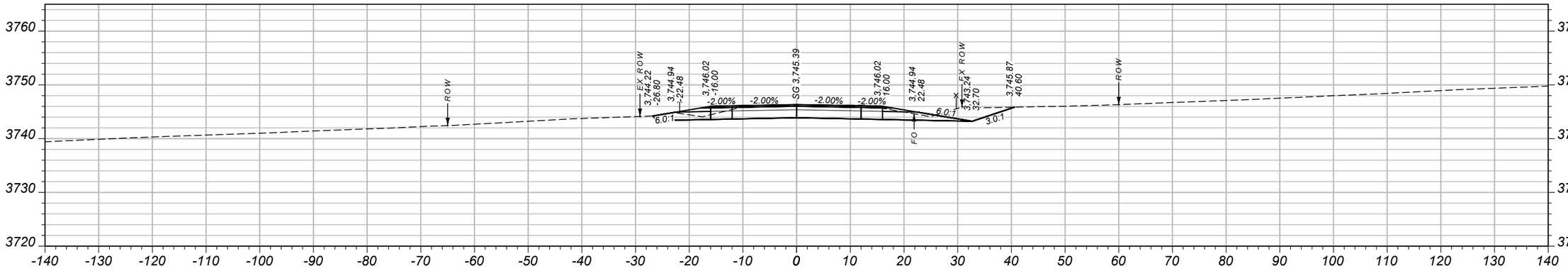
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MONTANA
Department of Transportation

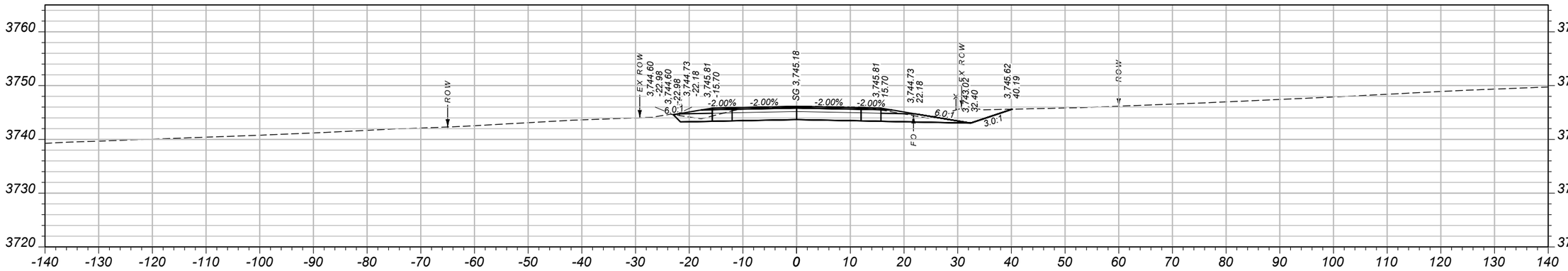
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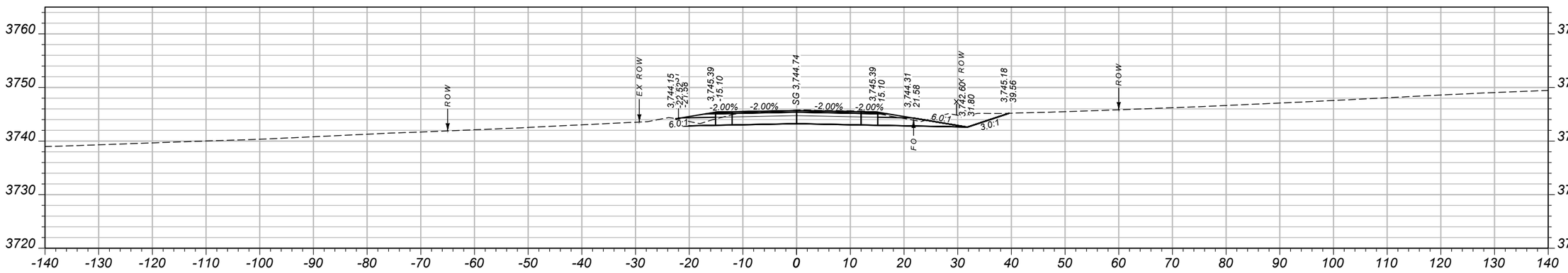
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STA 12+37.50



CV: 54 CY STA 12+25.00 FV: 0 CY



CV: 103 CY STA 12+00.00 FV: 0 CY

SHEET NO.
5

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. CERECK	
REVIEWED BY	02/2024		
J. BROTZLER			

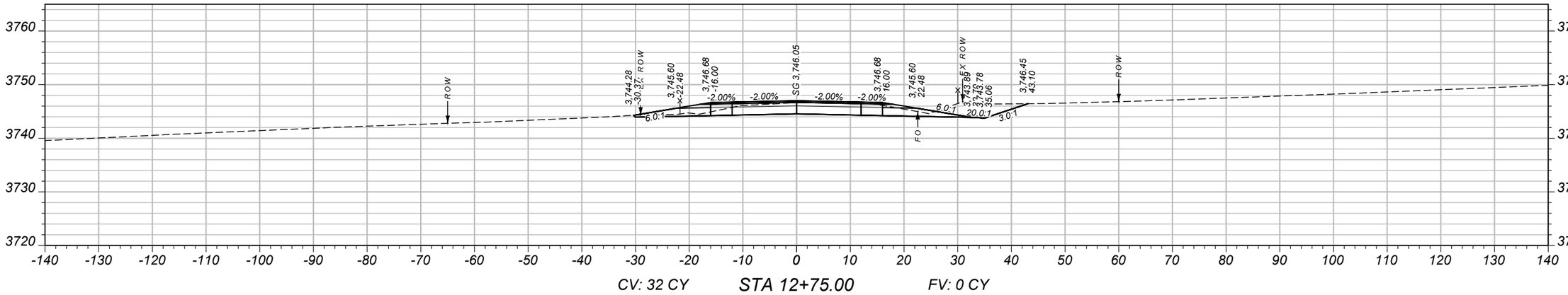
9116000RDXSF200.DWG

MONTANA
Department of Transportation

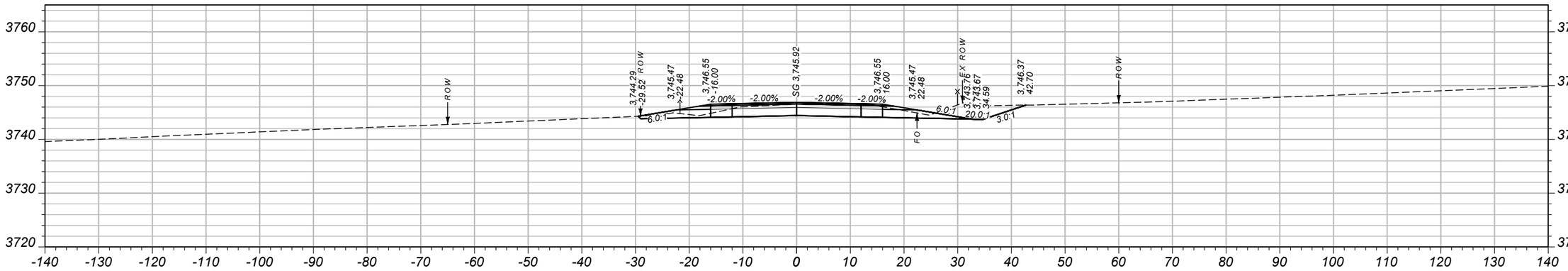
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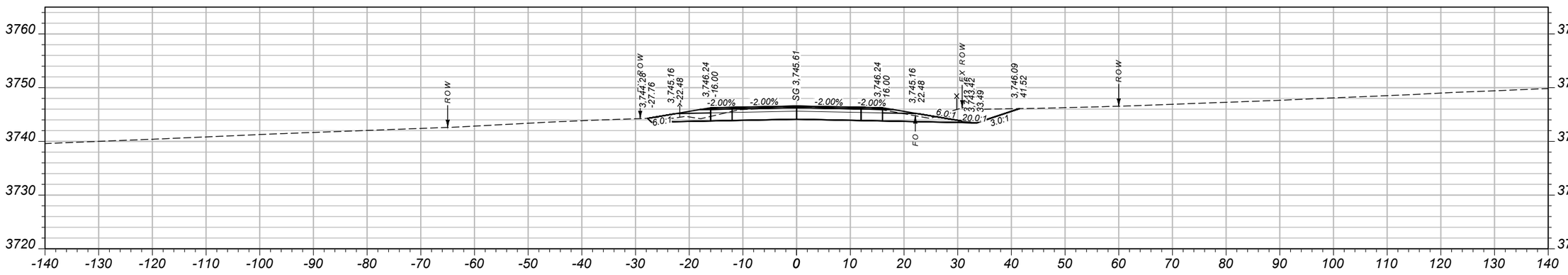
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CV: 32 CY STA 12+75.00 FV: 0 CY



CV: 76 CY STA 12+67.50 FV: 0 CY



CV: 55 CY STA 12+50.00 FV: 0 CY

SHEET NO.
6

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		DATE
B HENDERSON		02/2024
REVIEWED BY		DATE
J. BROTZLER		02/2024
CHECKED BY		DATE
J. CERECK		11/2024

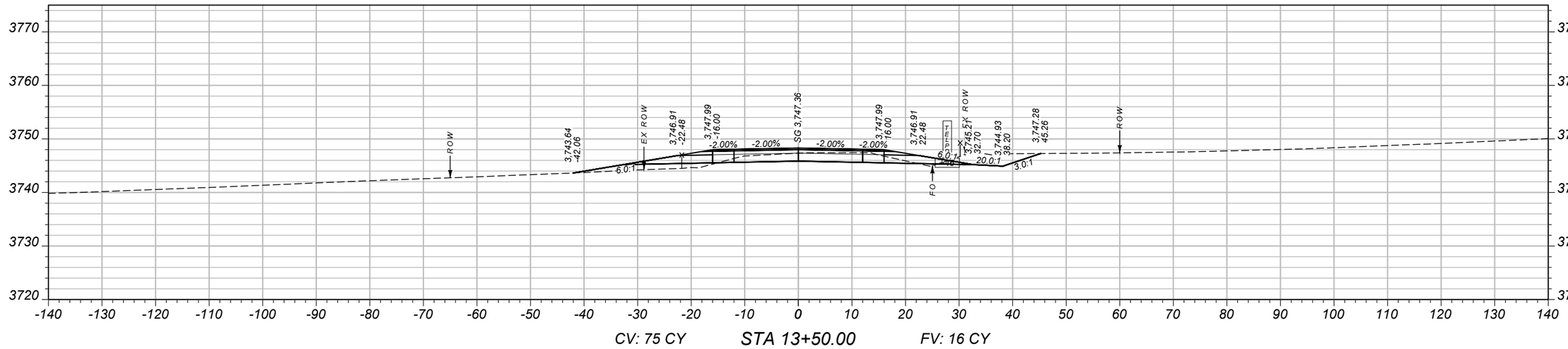
9116000RDXSF200.DWG

MONTANA
Department of Transportation

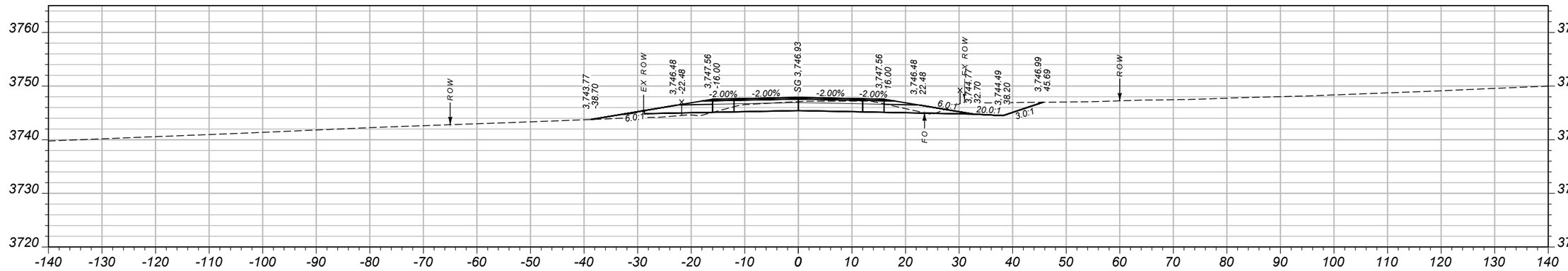
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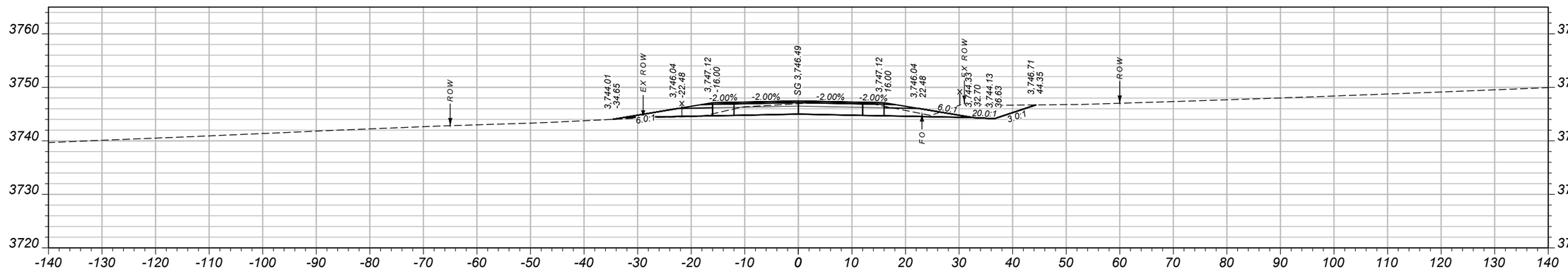
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CV: 75 CY STA 13+50.00 FV: 16 CY



CV: 87 CY STA 13+25.00 FV: 7 CY



CV: 98 CY STA 13+00.00 FV: 1 CY

SHEET NO.
7

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

9116000RDXSF200.DWG

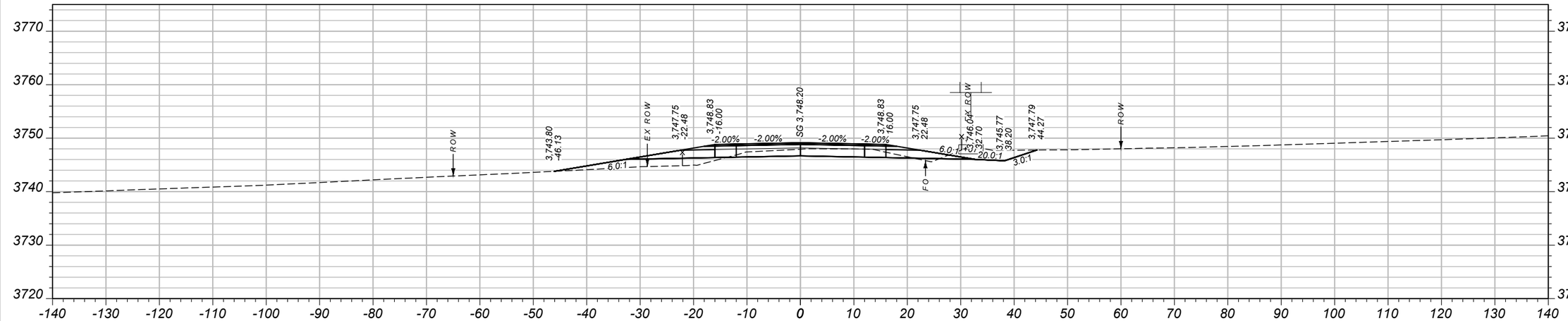
MONTANA
Department of Transportation

CROSS SECTIONS

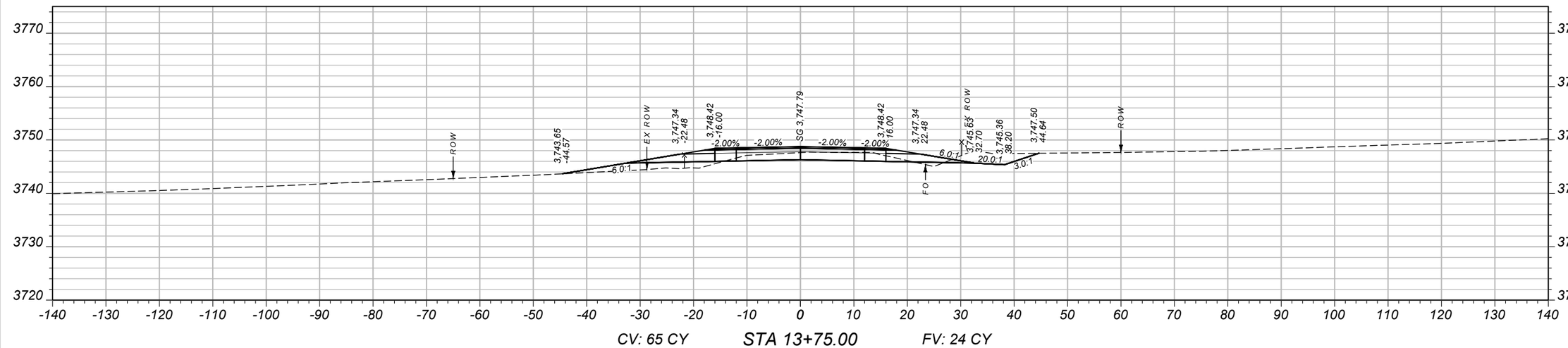
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AWARD COPY



CV: 60 CY STA 14+00.00 FV: 30 CY



CV: 65 CY STA 13+75.00 FV: 24 CY

SHEET NO. 8

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	B HENDERSON	
REVIEWED BY	02/2024	J. BROTZLER	
CHECKED BY	11/2024	J. CERECK	

9116000RDXSF200.DWG

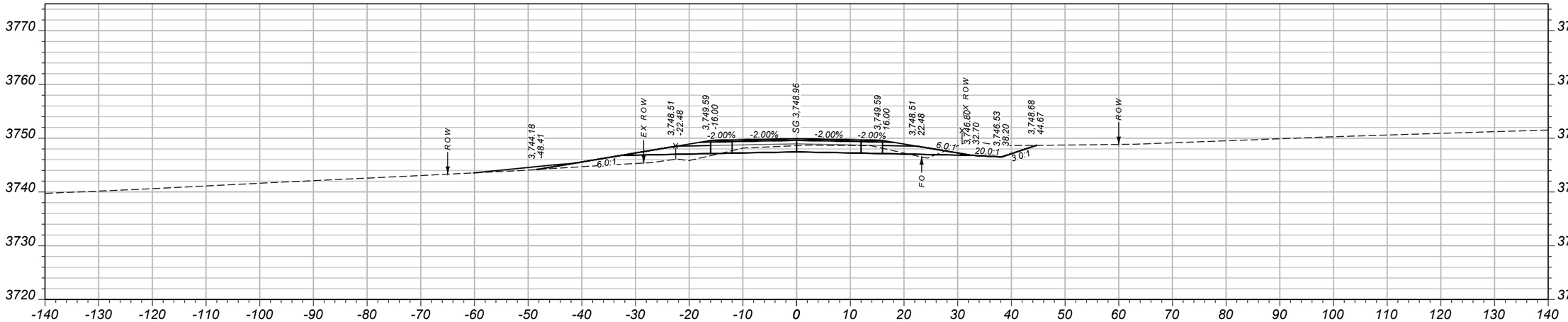
MONTANA
Department of Transportation

CROSS SECTIONS

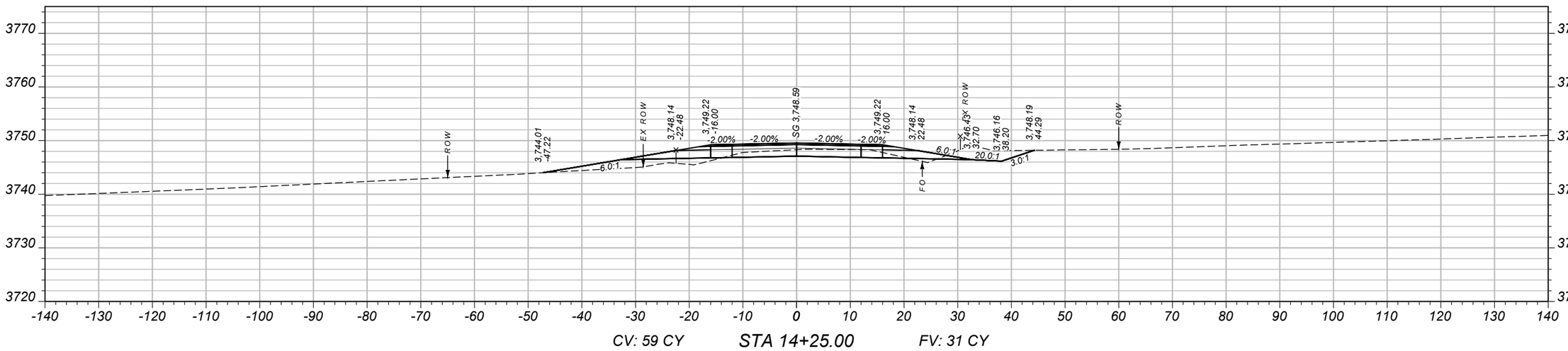
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AWARD COPY



CV: 60 CY STA 14+50.00 FV: 31 CY



CV: 59 CY STA 14+25.00 FV: 31 CY

SHEET NO.
9

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

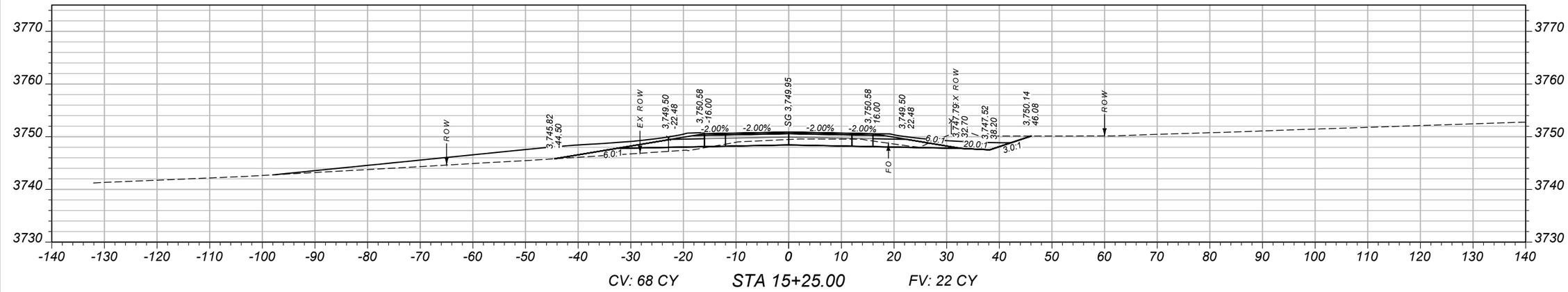
DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	9116000RDXSF200.DWG

MONTANA
Department of Transportation

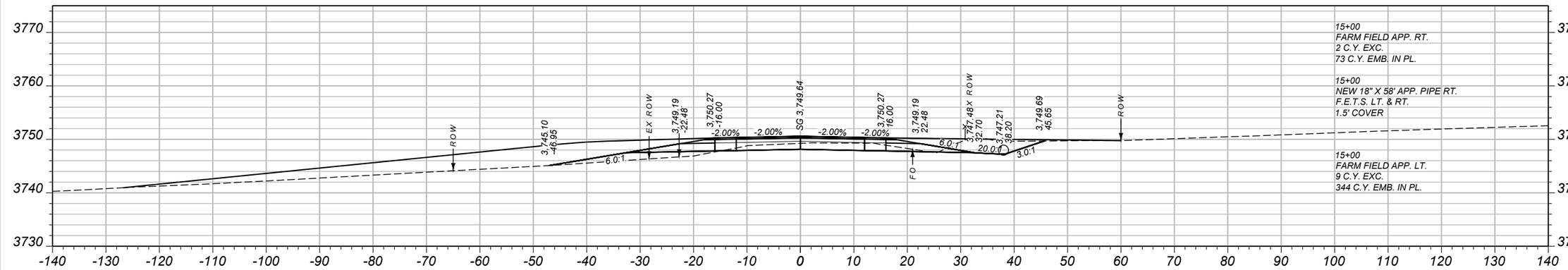
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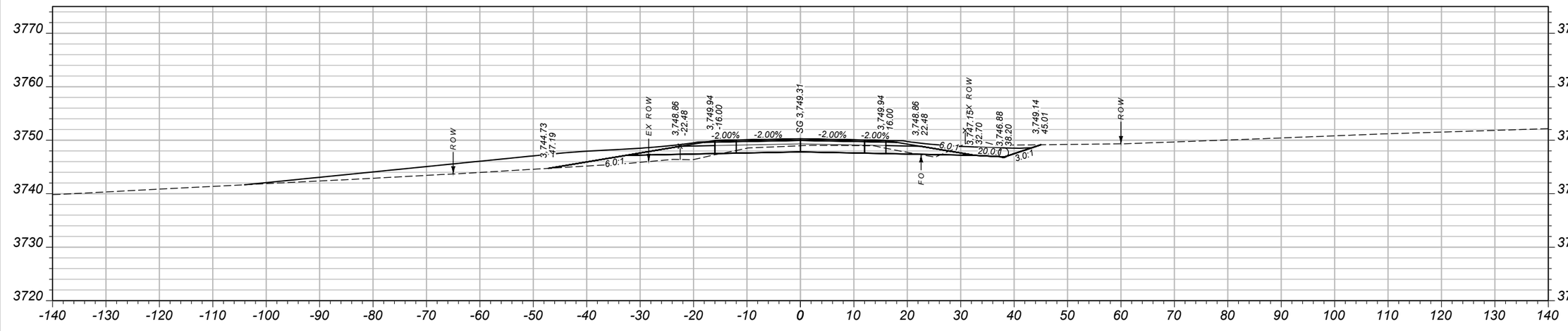
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CV: 68 CY STA 15+25.00 FV: 22 CY



CV: 64 CY STA 15+00.00 FV: 26 CY



CV: 61 CY STA 14+75.00 FV: 30 CY

SHEET NO.
10

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

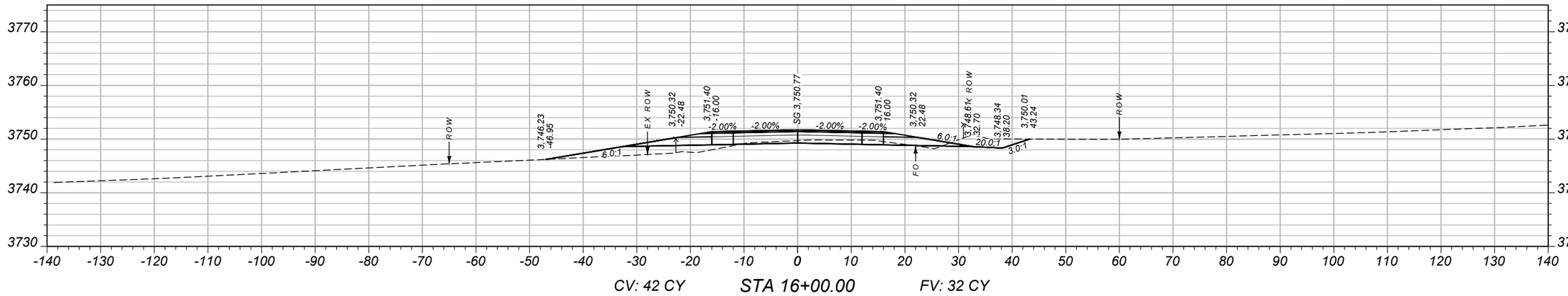
DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	9116000RDXSF200.DWG

MONTANA
Department of Transportation

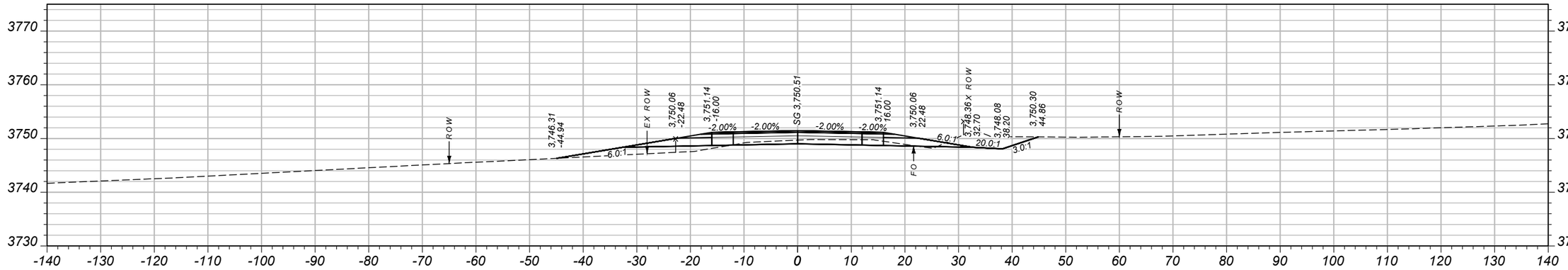
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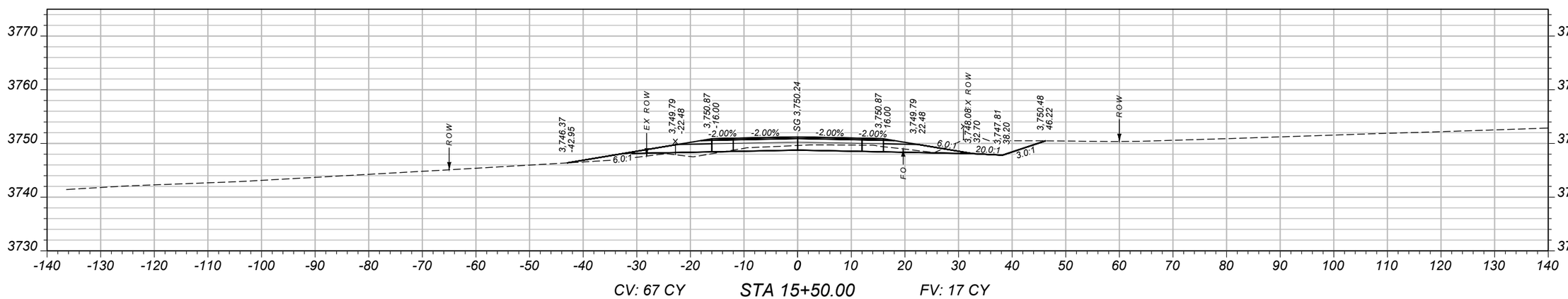
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CV: 42 CY STA 16+00.00 FV: 32 CY



CV: 58 CY STA 15+75.00 FV: 21 CY



CV: 67 CY STA 15+50.00 FV: 17 CY

SHEET NO.
11

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

MONTANA
Department of Transportation

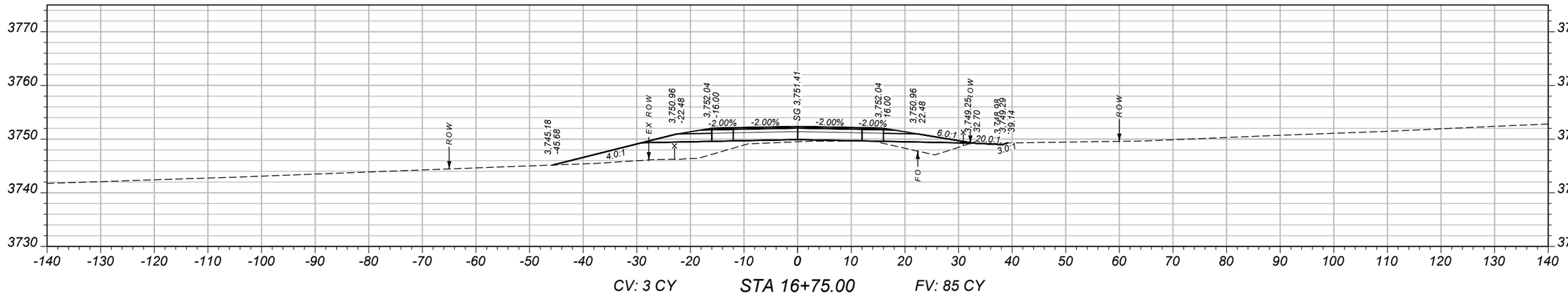
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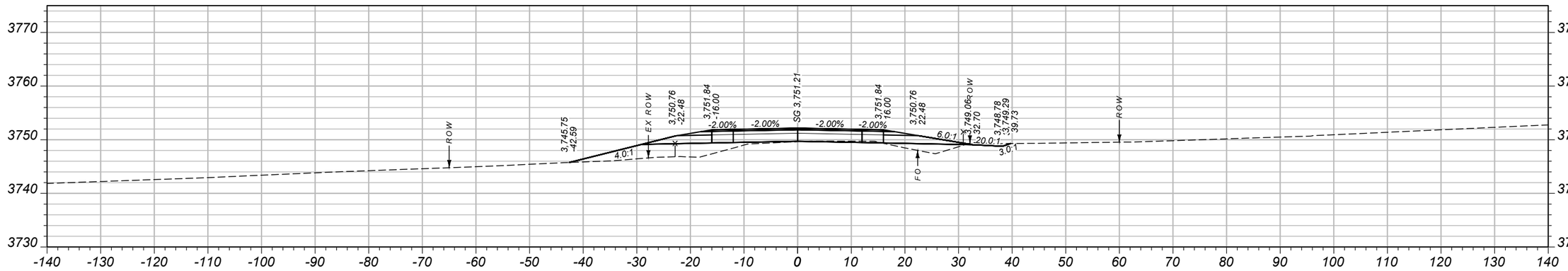
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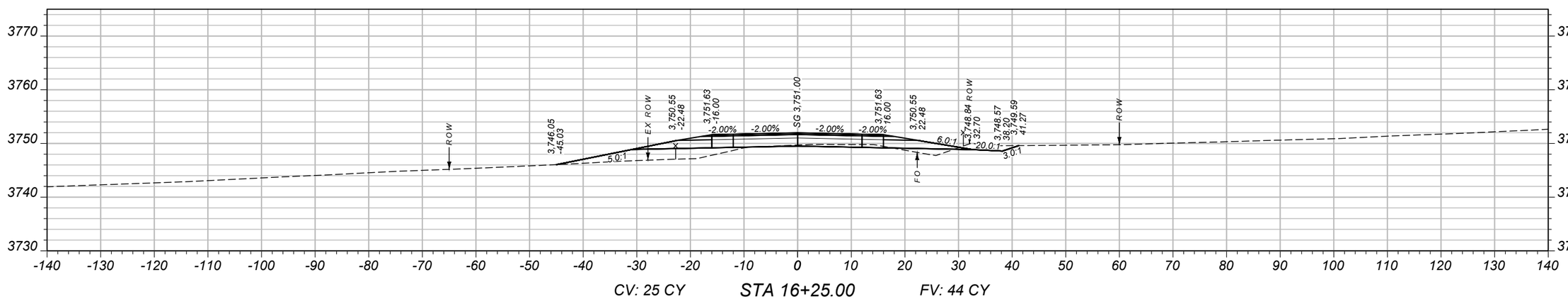
AWARD COPY



CV: 3 CY STA 16+75.00 FV: 85 CY



CV: 11 CY STA 16+50.00 FV: 61 CY



CV: 25 CY STA 16+25.00 FV: 44 CY

SHEET NO.
12

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

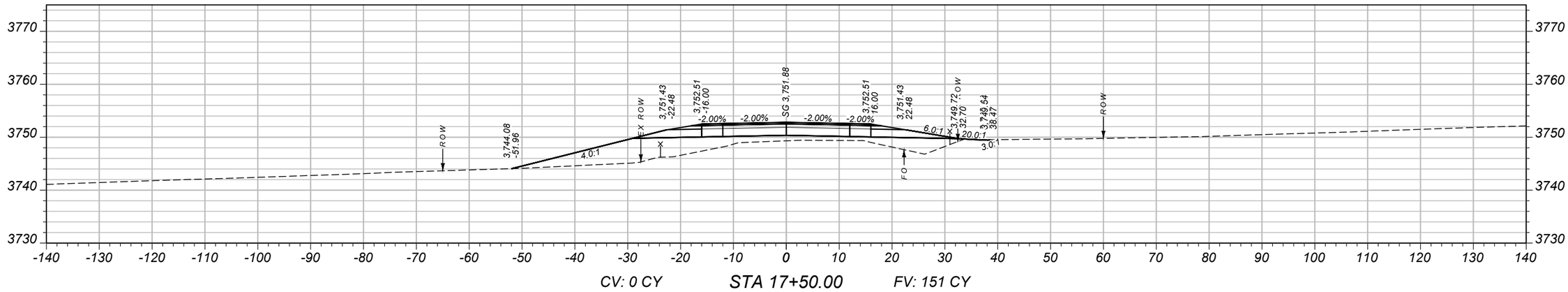
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MONTANA
Department of Transportation

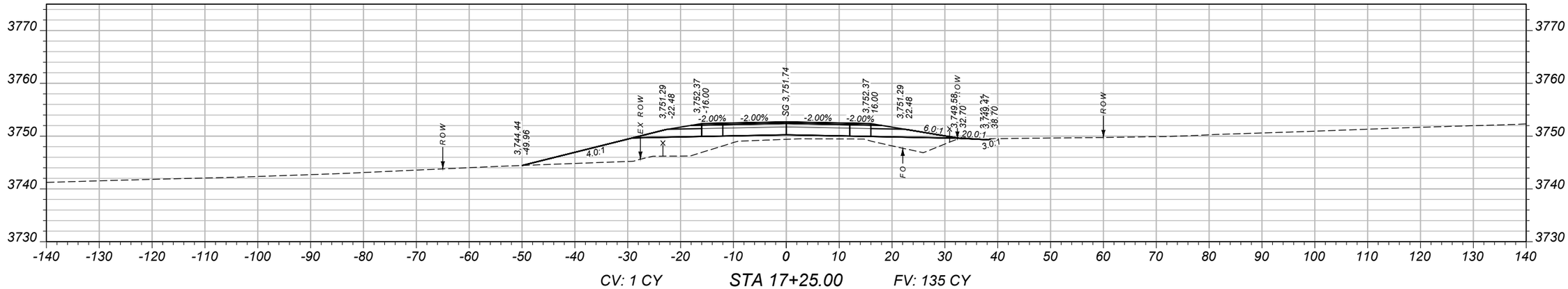
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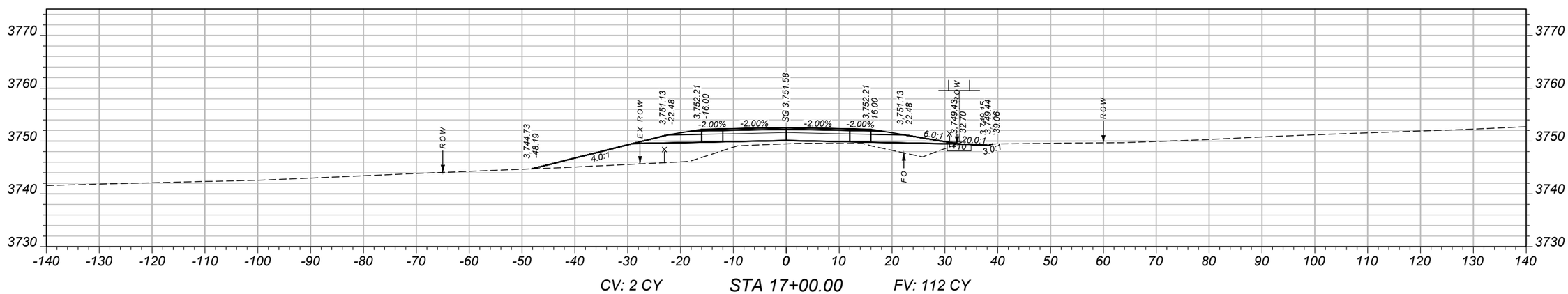
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CV: 0 CY STA 17+50.00 FV: 151 CY



CV: 1 CY STA 17+25.00 FV: 135 CY



CV: 2 CY STA 17+00.00 FV: 112 CY

SHEET NO.
13

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

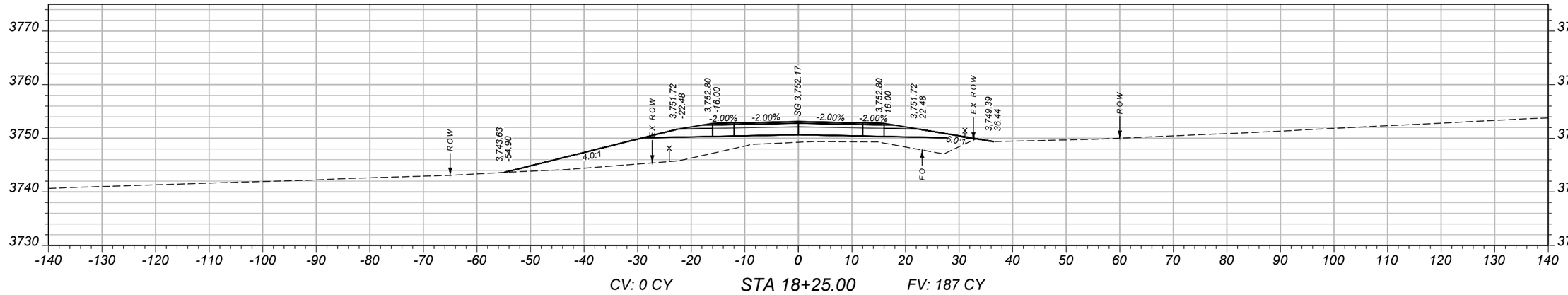
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MONTANA
Department of Transportation

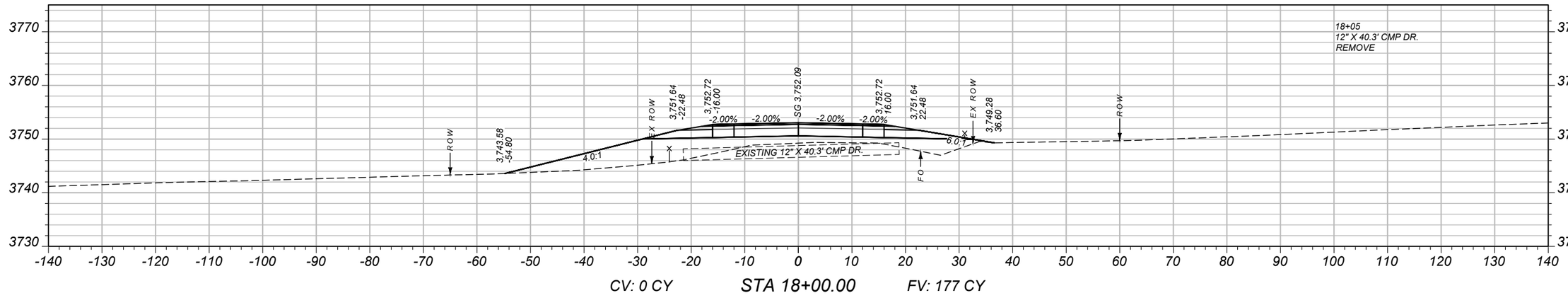
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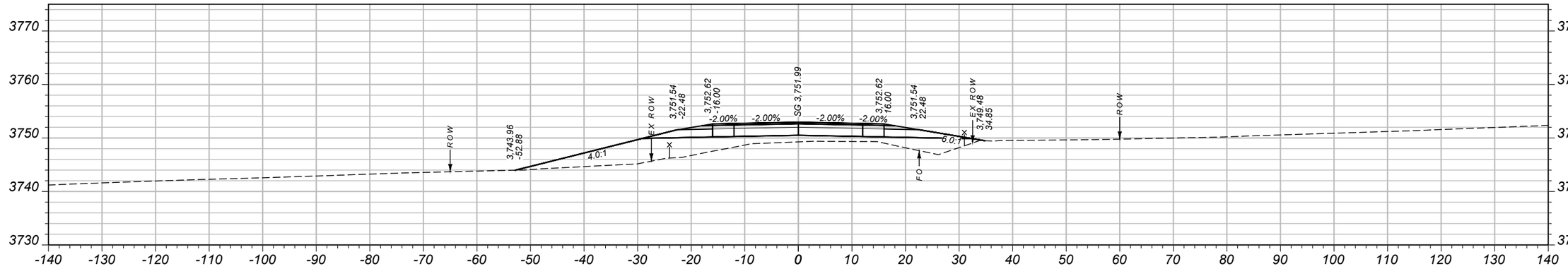
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CV: 0 CY STA 18+25.00 FV: 187 CY



CV: 0 CY STA 18+00.00 FV: 177 CY



CV: 0 CY STA 17+75.00 FV: 163 CY

SHEET NO.
14

CROSS SECTIONS

PROJECT NAME: **SF 159 SE COLUMBUS SHLDR WID**
COUNTY: **STILLWATER COUNTY**
PROJECT ID: **HSIP 421-1(13)5**
UPN: **9116000**

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

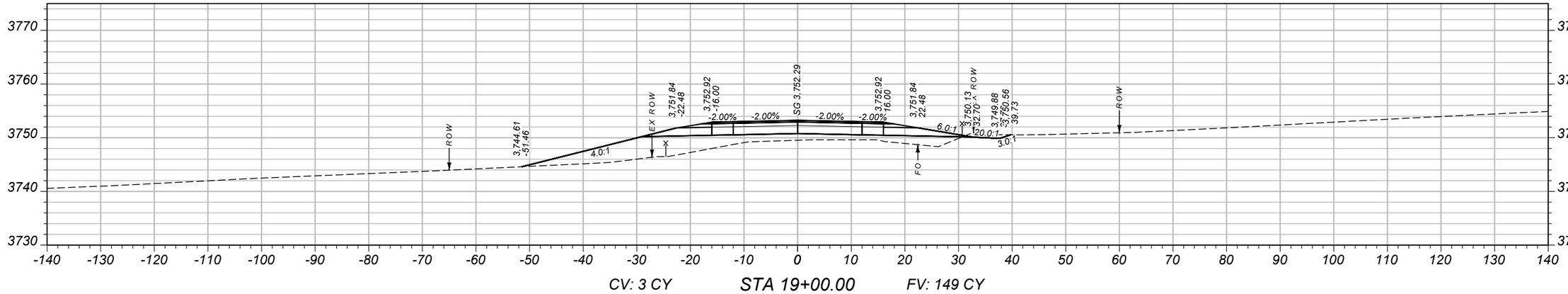
MONTANA
Department of Transportation

CROSS SECTIONS

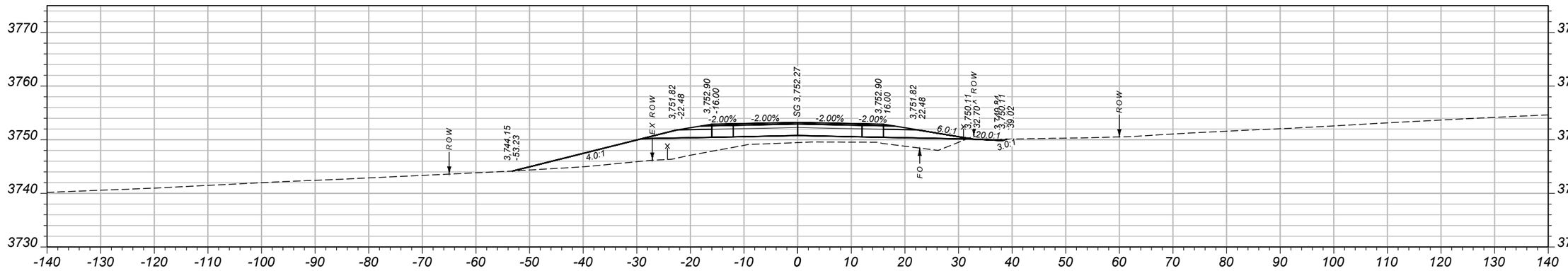
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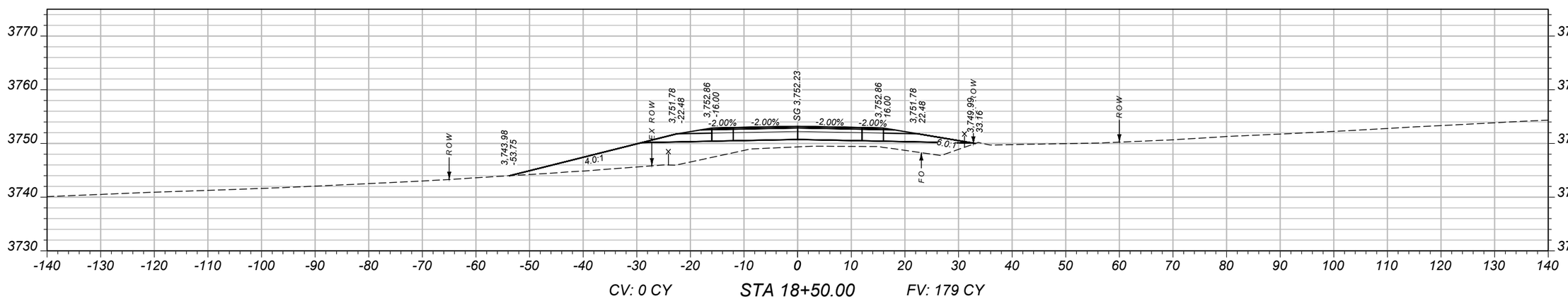
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CV: 3 CY STA 19+00.00 FV: 149 CY



CV: 1 CY STA 18+75.00 FV: 162 CY



CV: 0 CY STA 18+50.00 FV: 179 CY

SHEET NO. 15

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

MONTANA Department of Transportation

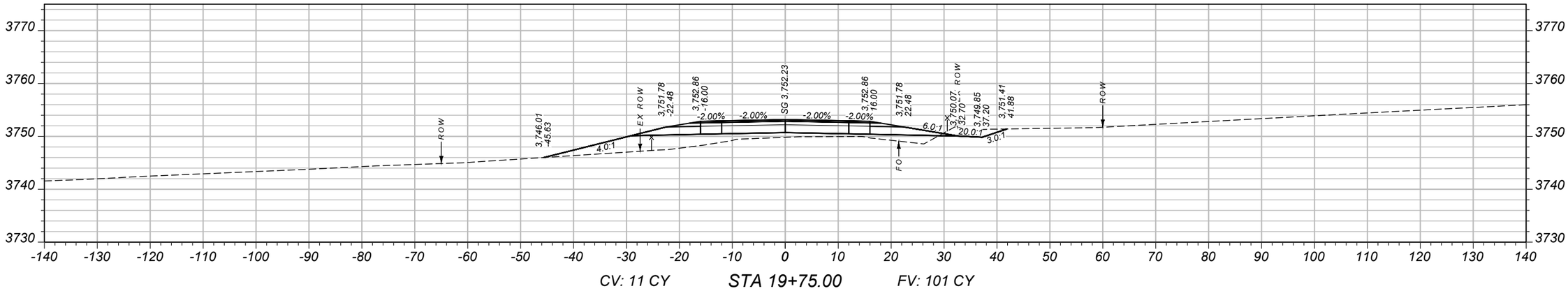
CROSS SECTIONS

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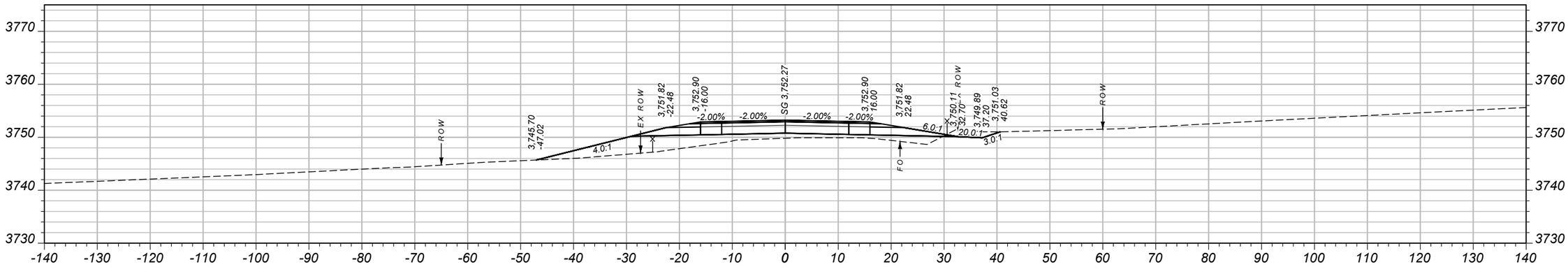
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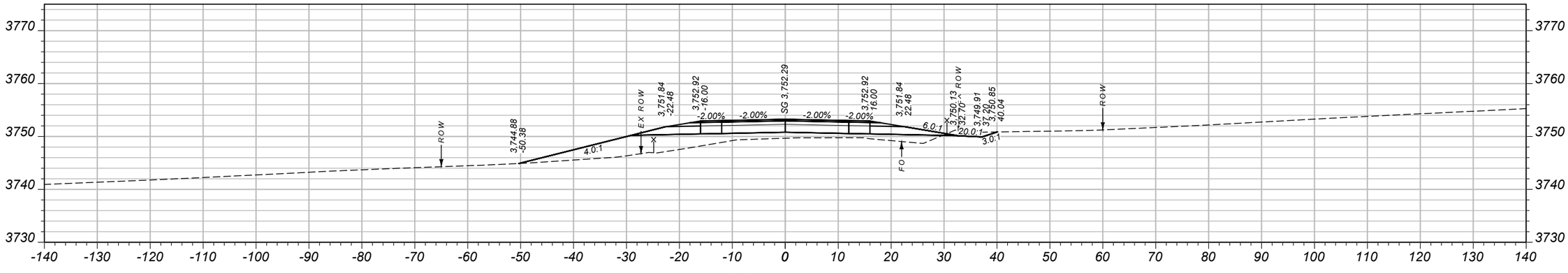
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CV: 11 CY STA 19+75.00 FV: 101 CY



CV: 7 CY STA 19+50.00 FV: 115 CY



CV: 5 CY STA 19+25.00 FV: 134 CY

SHEET NO.
16

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID

COUNTY STILLWATER COUNTY

PROJECT ID HSIP 421-1(13)5

UPN 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

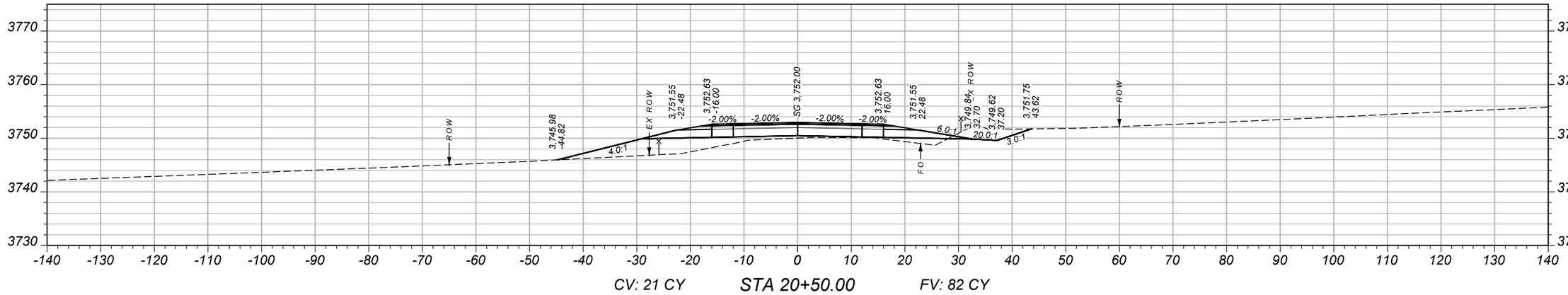
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MONTANA Department of Transportation

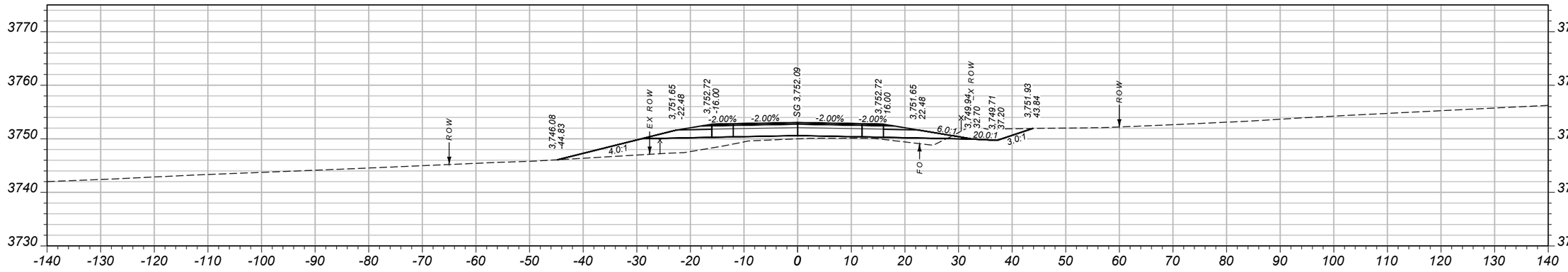
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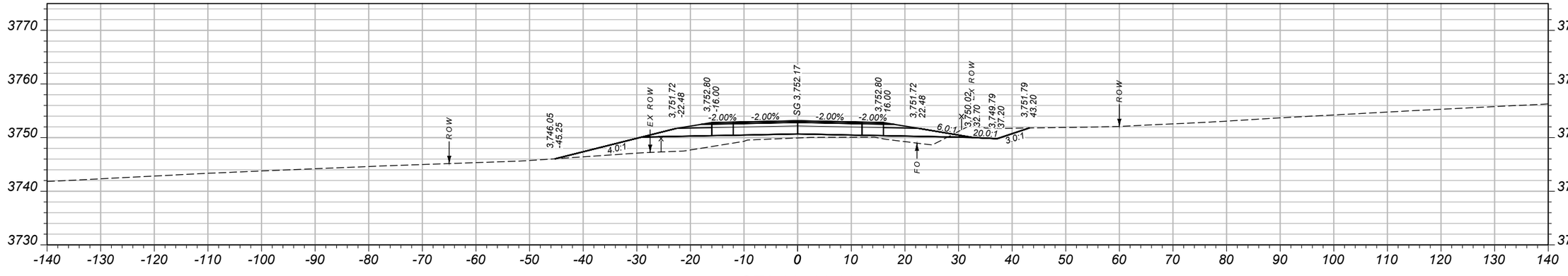
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CV: 21 CY STA 20+50.00 FV: 82 CY



CV: 20 CY STA 20+25.00 FV: 86 CY



CV: 16 CY STA 20+00.00 FV: 93 CY

SHEET NO.
17

CROSS SECTIONS

PROJECT NAME: **SF 159 SE COLUMBUS SHLDR WID**
COUNTY: **STILLWATER COUNTY**
PROJECT ID: **HSIP 421-1(13)5**
UPN: **9116000**

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

9116000RDXSF200.DWG

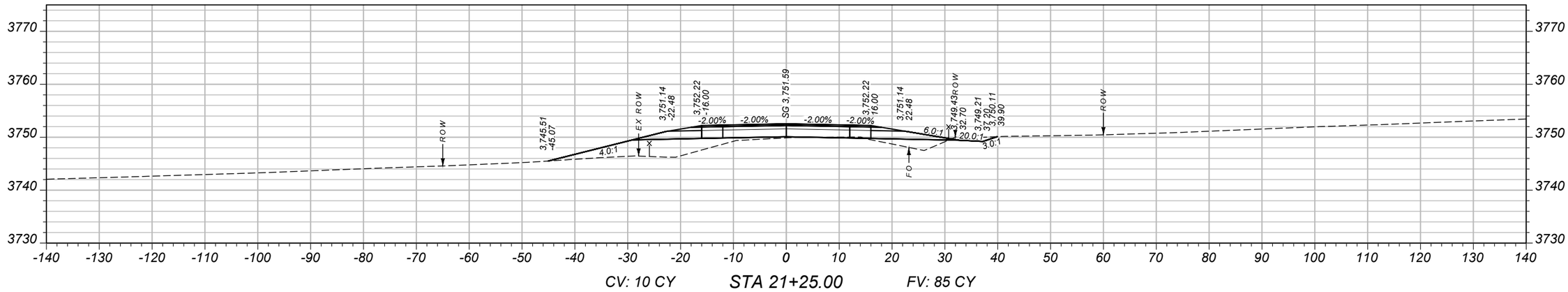
MONTANA
Department of Transportation

CROSS SECTIONS

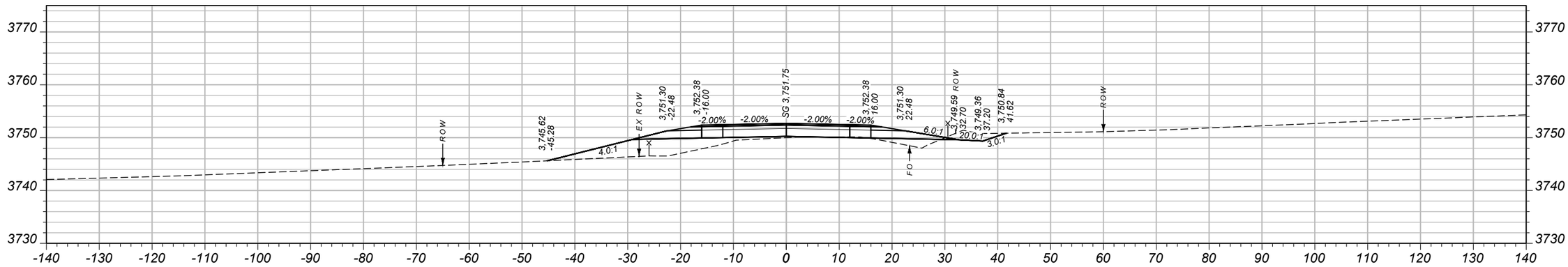
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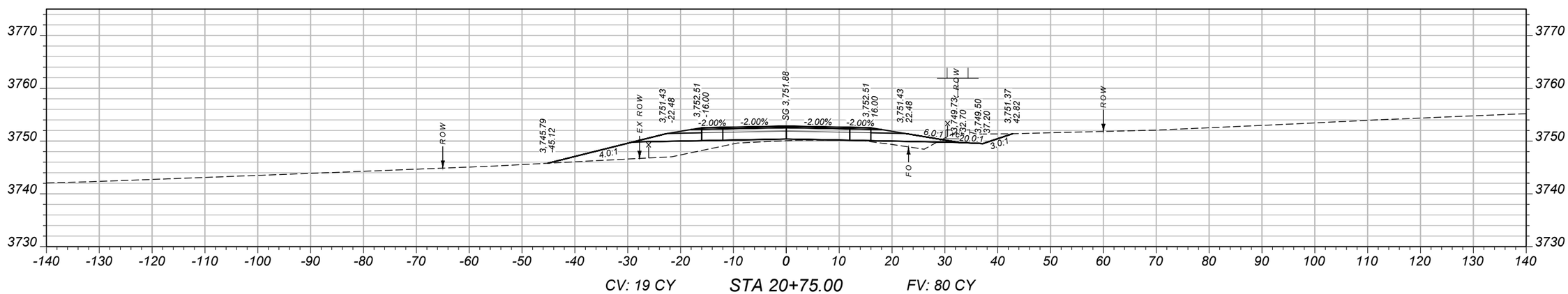
AWARD COPY



CV: 10 CY STA 21+25.00 FV: 85 CY



CV: 15 CY STA 21+00.00 FV: 81 CY



CV: 19 CY STA 20+75.00 FV: 80 CY

SHEET NO. 18

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID

COUNTY: STILLWATER COUNTY

PROJECT ID: HSIP 421-1(13)5

UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

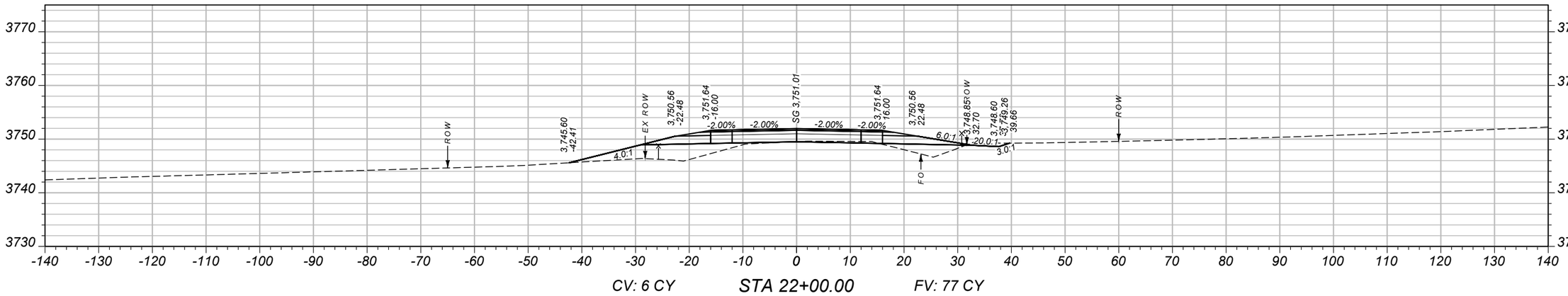
MONTANA Department of Transportation

CROSS SECTIONS

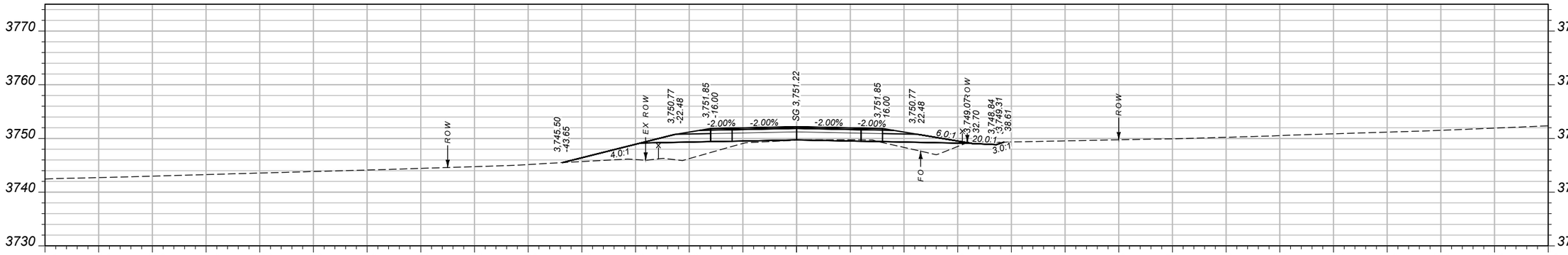
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9116000RDXSF200.DWG

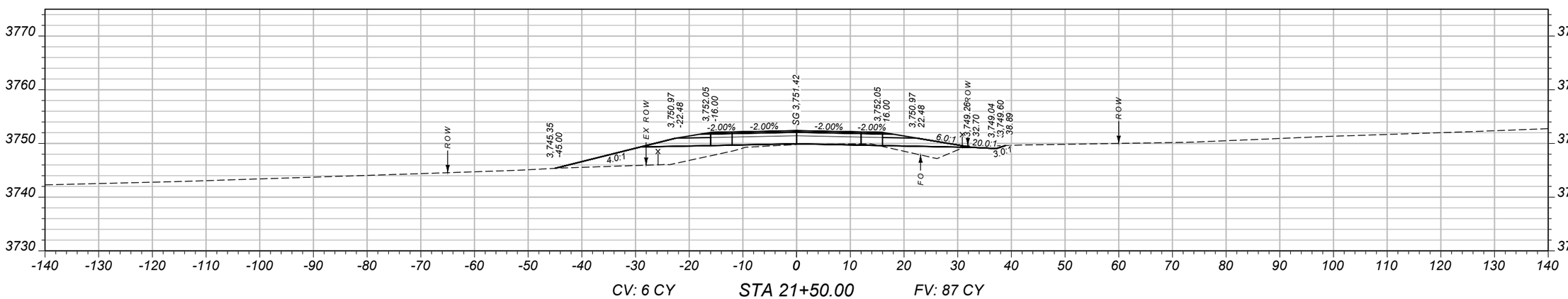
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 6 CY STA 22+00.00 FV: 77 CY



CV: 6 CY STA 21+75.00 FV: 84 CY



CV: 6 CY STA 21+50.00 FV: 87 CY

SHEET NO.
19

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

MONTANA
Department of Transportation

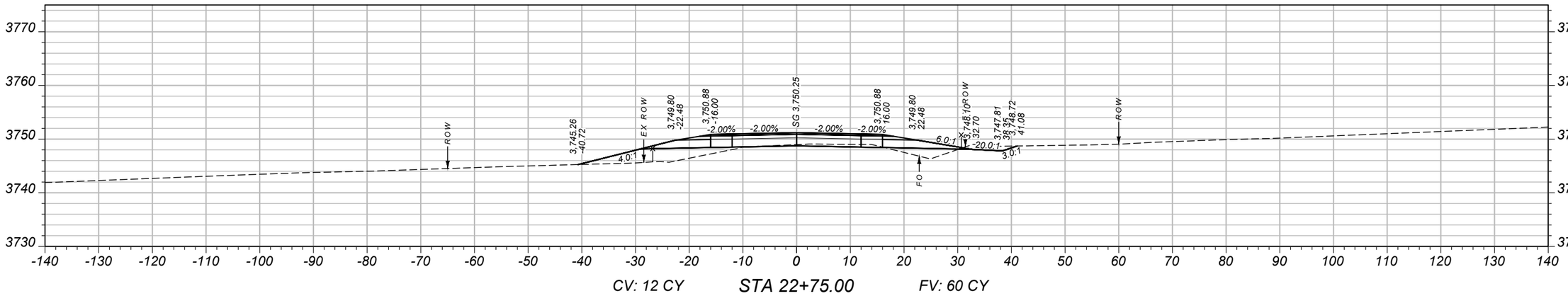
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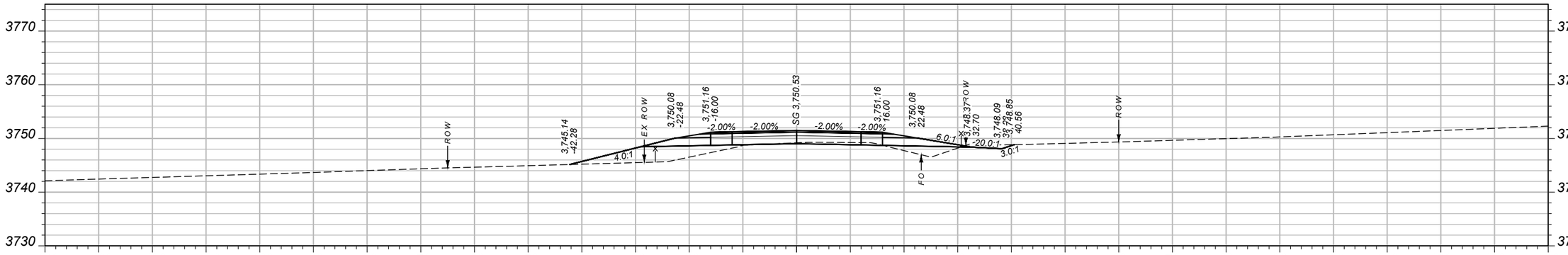
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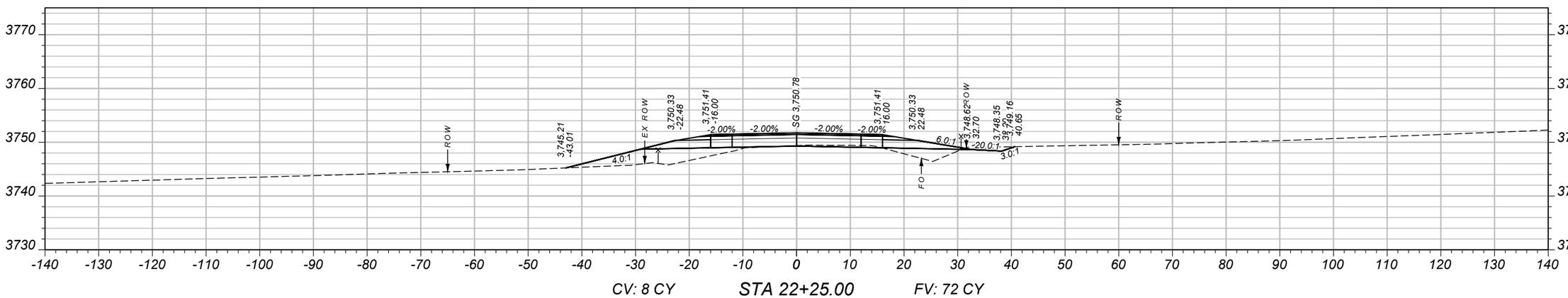
AWARD COPY



CV: 12 CY STA 22+75.00 FV: 60 CY



CV: 10 CY STA 22+50.00 FV: 68 CY



CV: 8 CY STA 22+25.00 FV: 72 CY

SHEET NO.
20

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

9116000RDXSF200.DWG

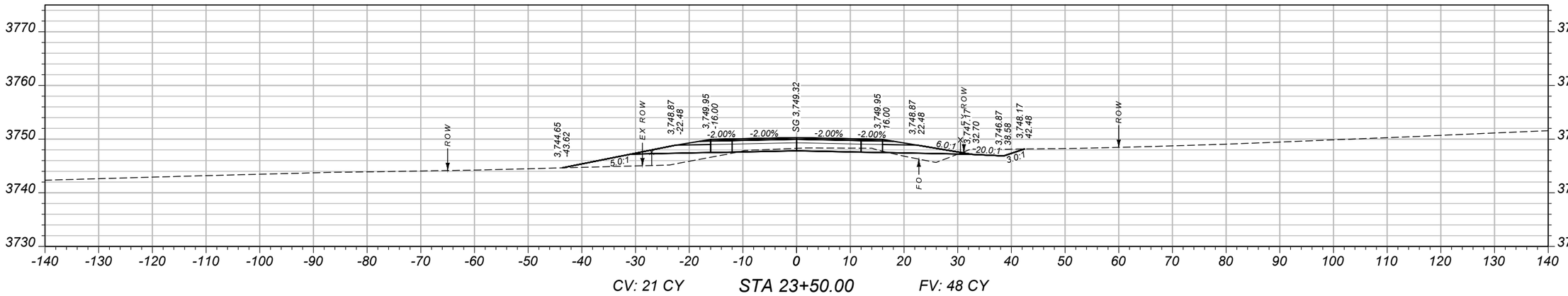
MONTANA
Department of Transportation

CROSS SECTIONS

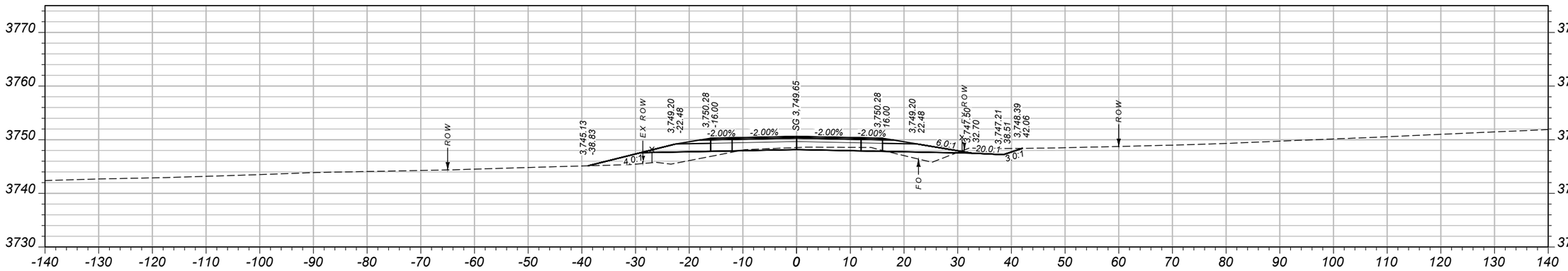
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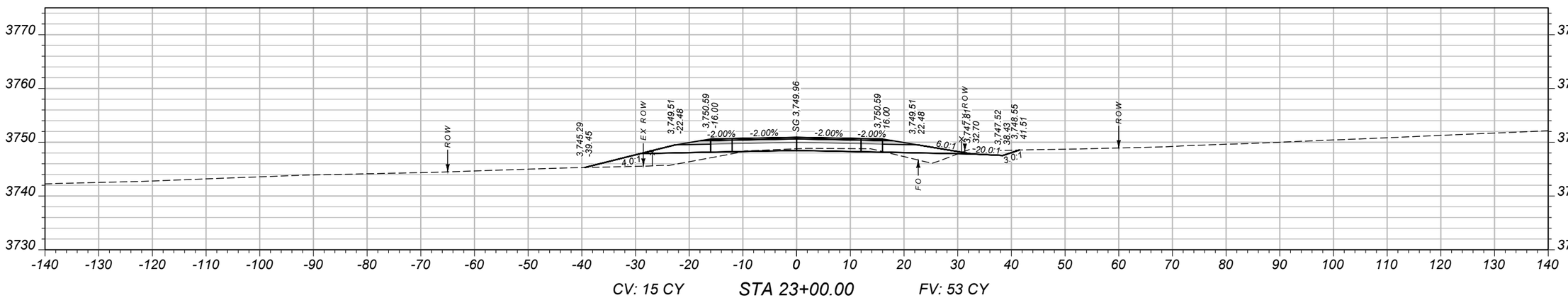
AWARD COPY



CV: 21 CY STA 23+50.00 FV: 48 CY



CV: 18 CY STA 23+25.00 FV: 47 CY



CV: 15 CY STA 23+00.00 FV: 53 CY

SHEET NO. 21

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

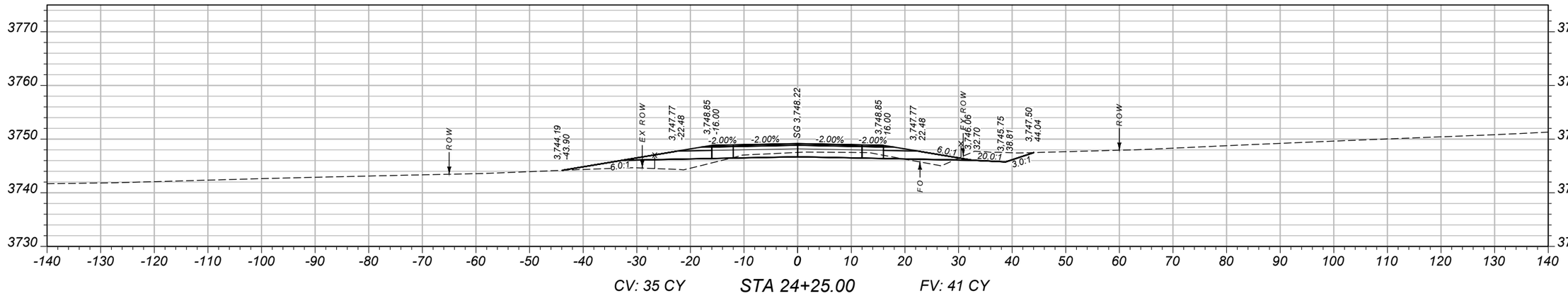
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MONTANA Department of Transportation

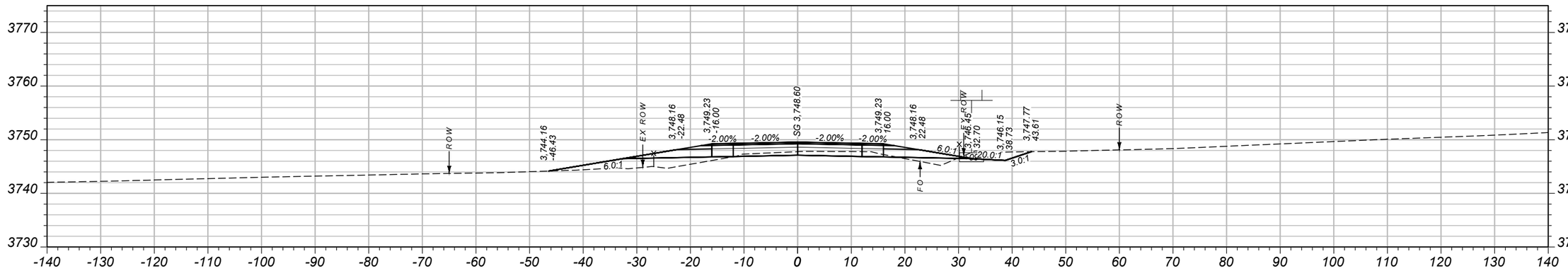
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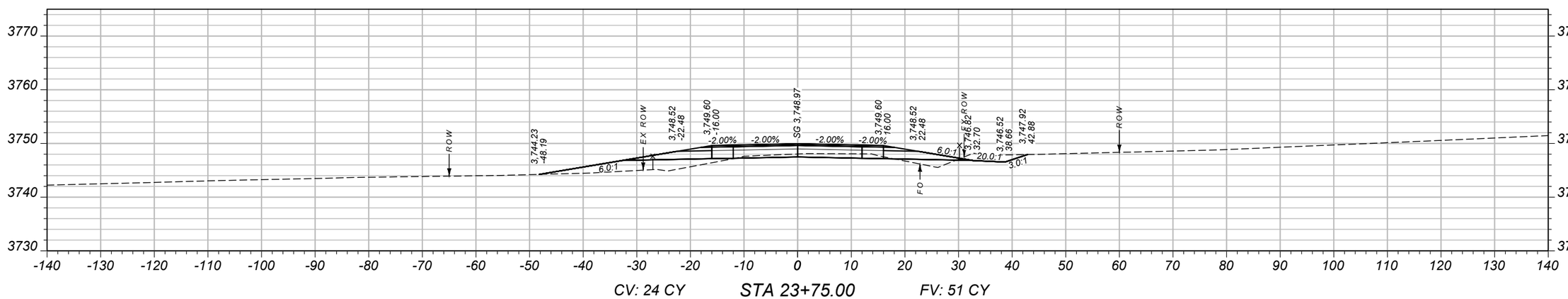
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CV: 35 CY STA 24+25.00 FV: 41 CY



CV: 29 CY STA 24+00.00 FV: 47 CY



CV: 24 CY STA 23+75.00 FV: 51 CY

SHEET NO. 22

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

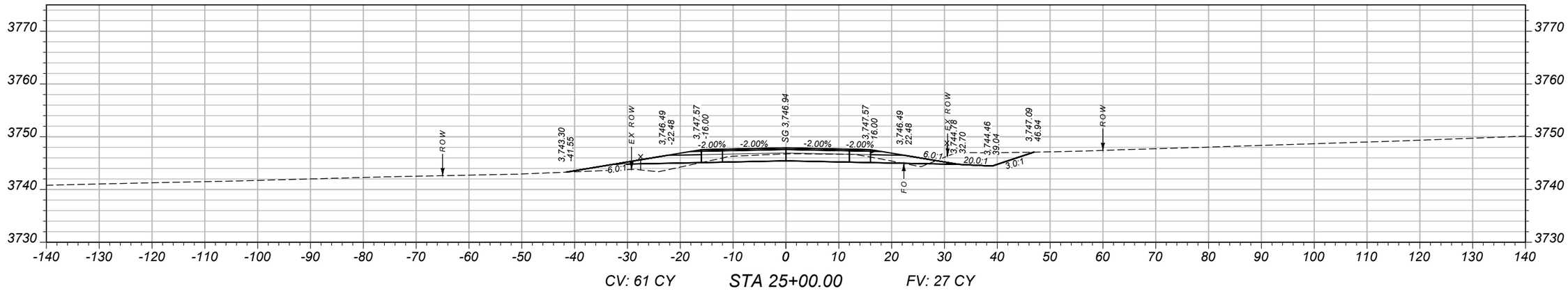
MONTANA Department of Transportation

CROSS SECTIONS

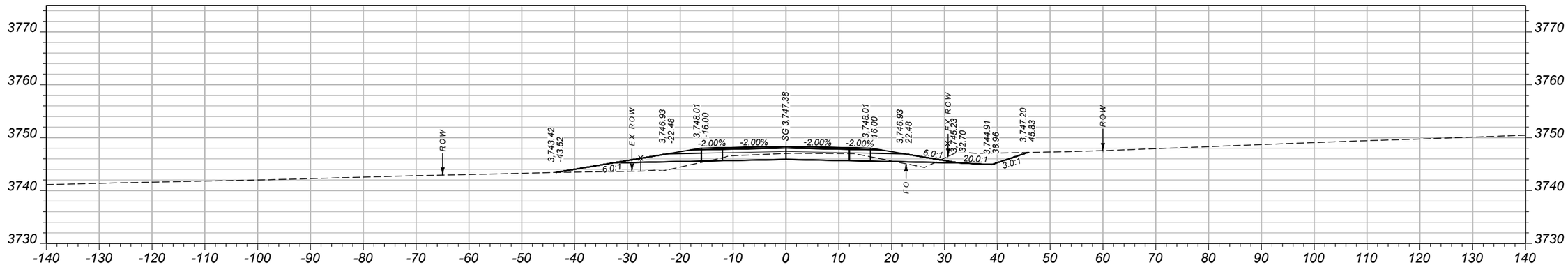
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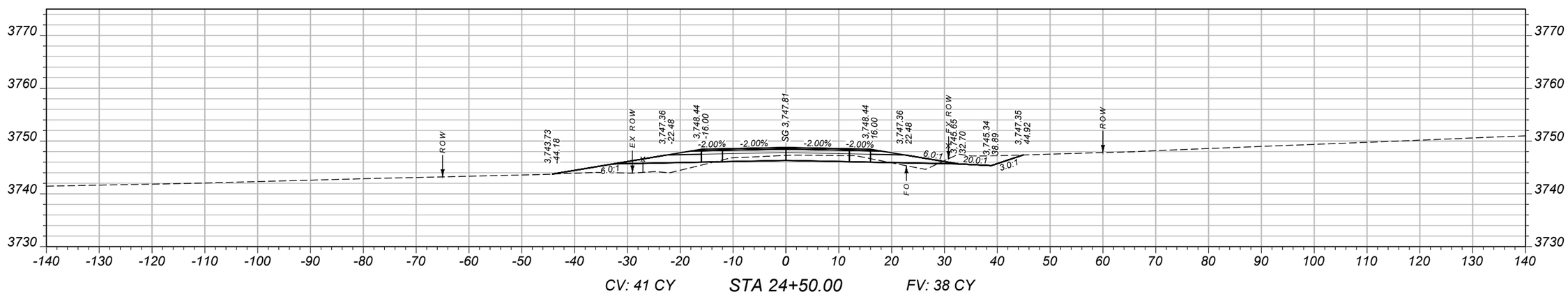
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CV: 61 CY STA 25+00.00 FV: 27 CY



CV: 49 CY STA 24+75.00 FV: 35 CY



CV: 41 CY STA 24+50.00 FV: 38 CY

SHEET NO. 23

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

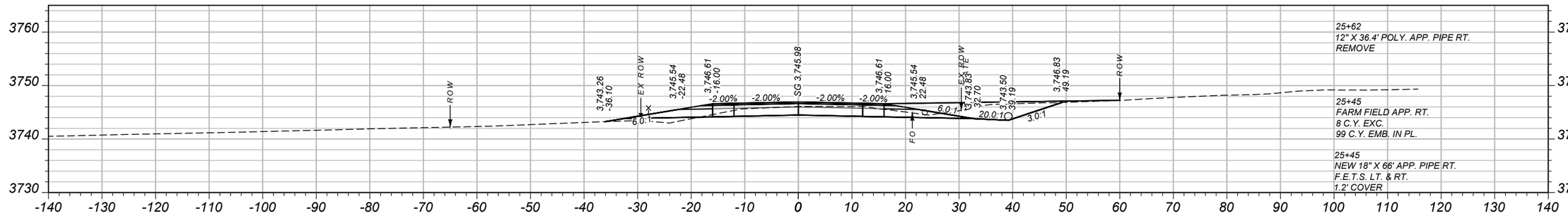
MONTANA Department of Transportation

CROSS SECTIONS

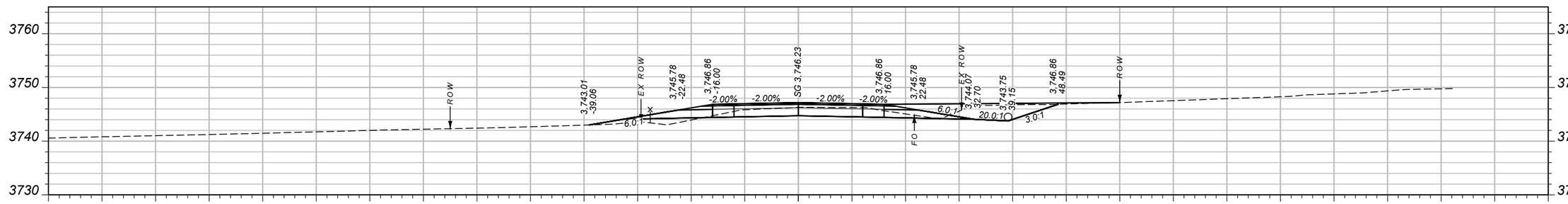
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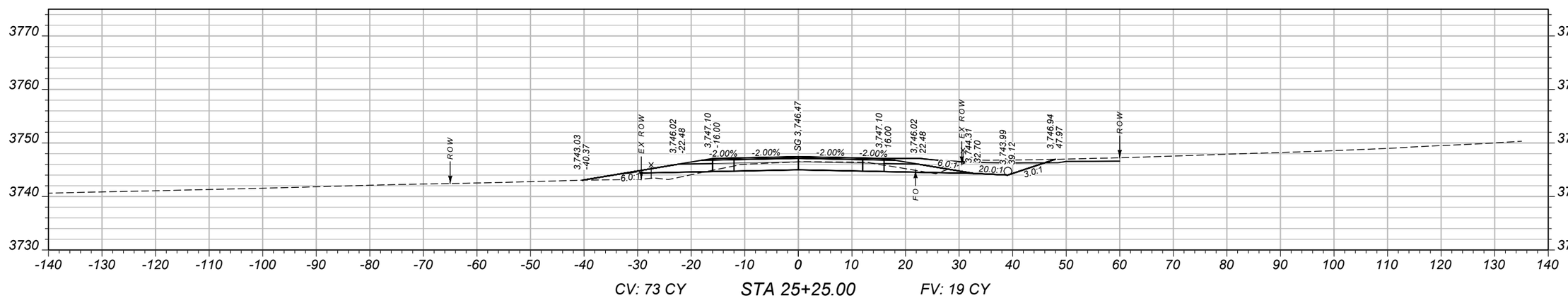
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CV: 44 CY STA 25+50.00 FV: 5 CY



CV: 41 CY STA 25+37.50 FV: 7 CY



CV: 73 CY STA 25+25.00 FV: 19 CY

SHEET NO.
24

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

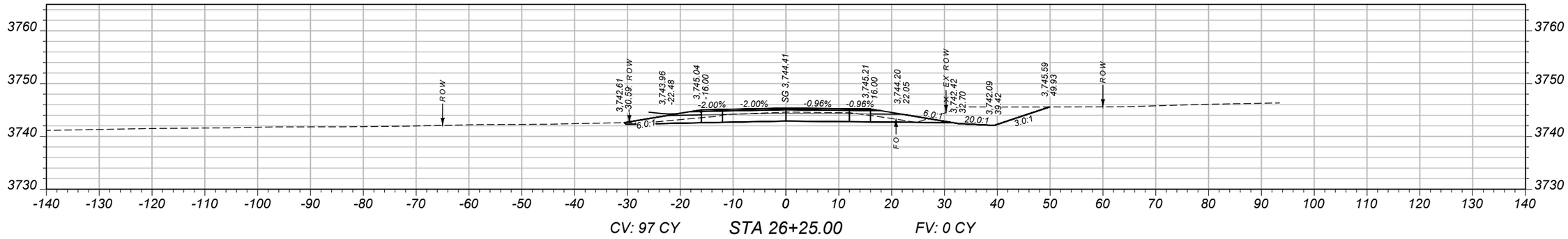
MONTANA
Department of Transportation

CROSS SECTIONS

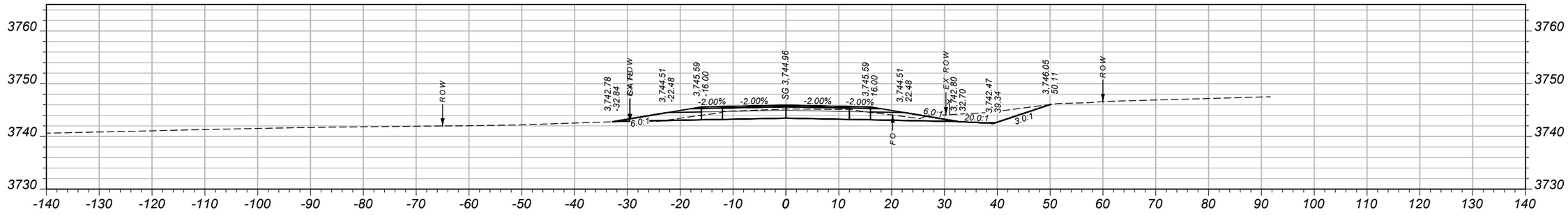
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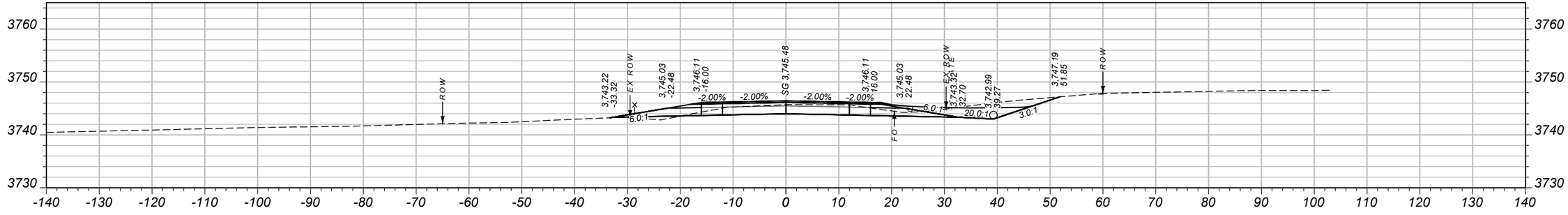
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CV: 97 CY STA 26+25.00 FV: 0 CY



CV: 94 CY STA 26+00.00 FV: 2 CY



CV: 96 CY STA 25+75.00 FV: 6 CY

SHEET NO.
25

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

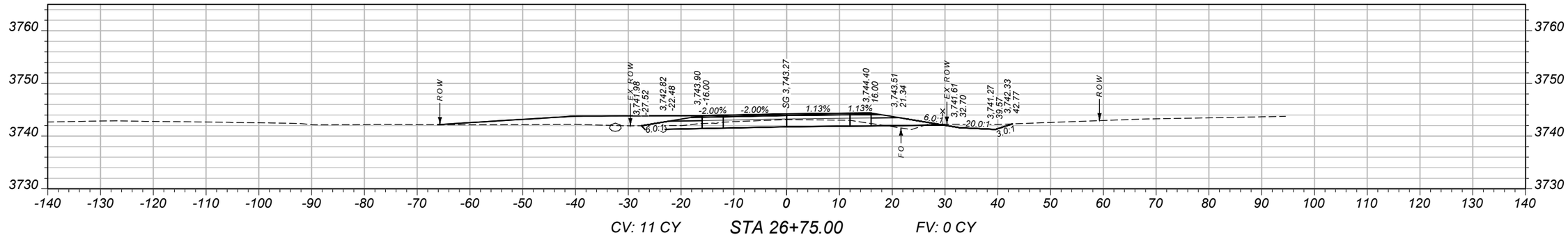
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MONTANA
Department of Transportation

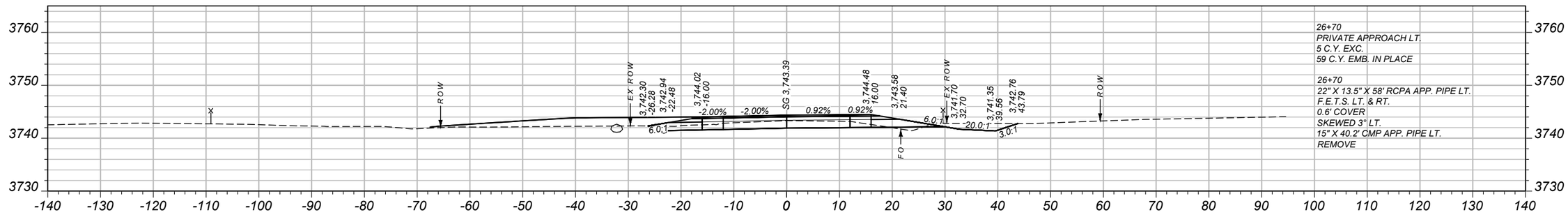
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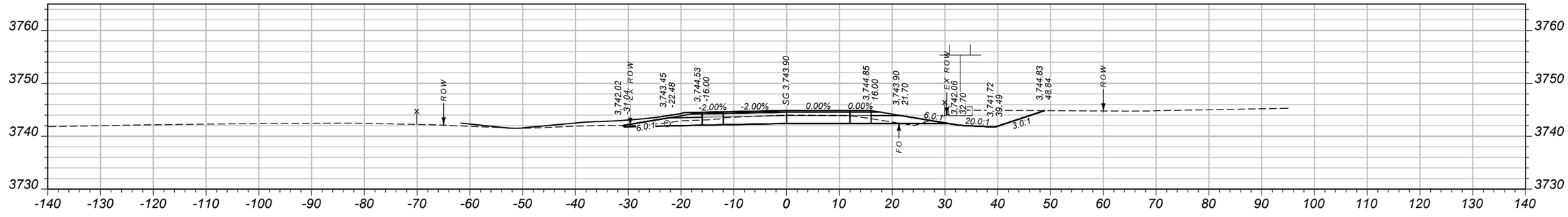
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 11 CY STA 26+75.00 FV: 0 CY



CV: 67 CY STA 26+70.00 FV: 1 CY



CV: 91 CY STA 26+48.00 FV: 0 CY

SHEET NO.
26

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

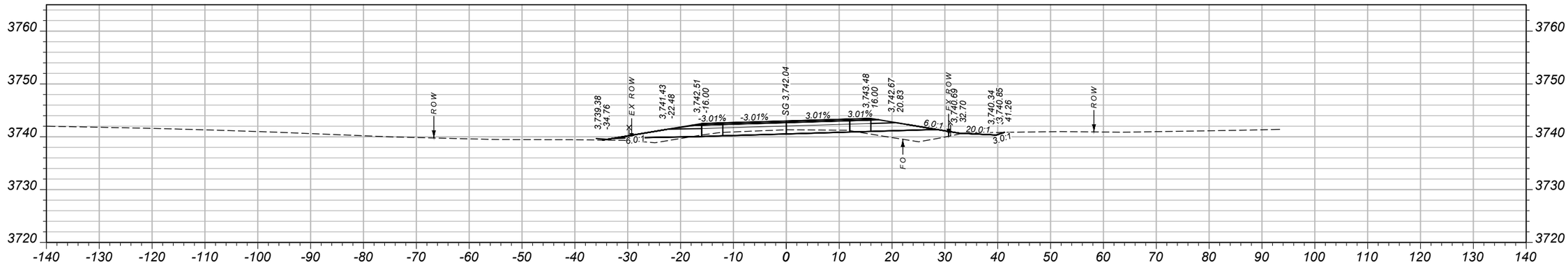
MONTANA Department of Transportation

CROSS SECTIONS

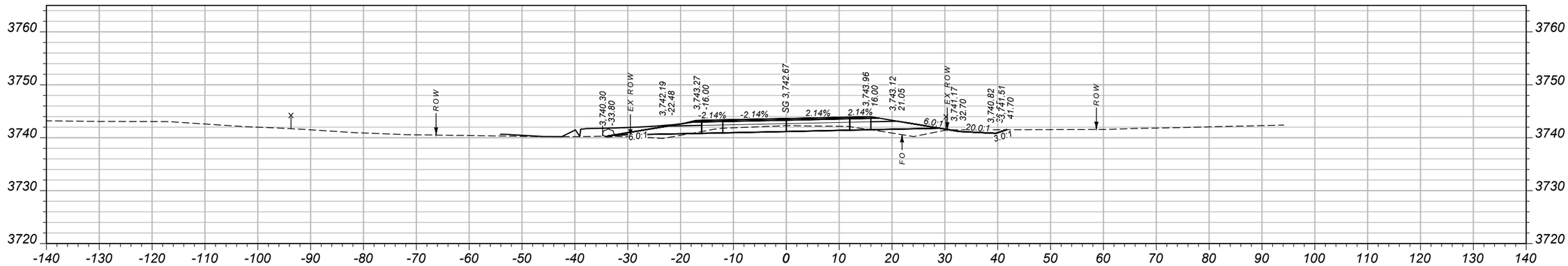
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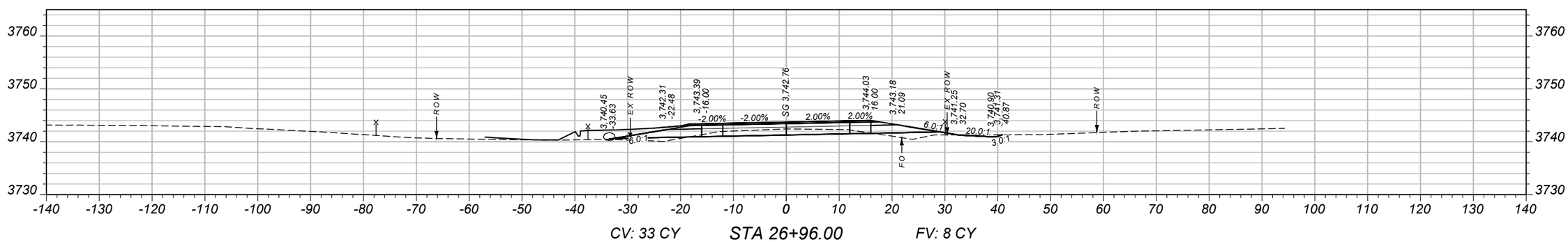
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 24 CY STA 27+25.00 FV: 24 CY



CV: 5 CY STA 27+00.00 FV: 3 CY



CV: 33 CY STA 26+96.00 FV: 8 CY

SHEET NO.
27

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		
B HENDERSON	02/2024	
REVIEWED BY		
J. BROTZLER	02/2024	
CHECKED BY		
J. CERECK	11/2024	

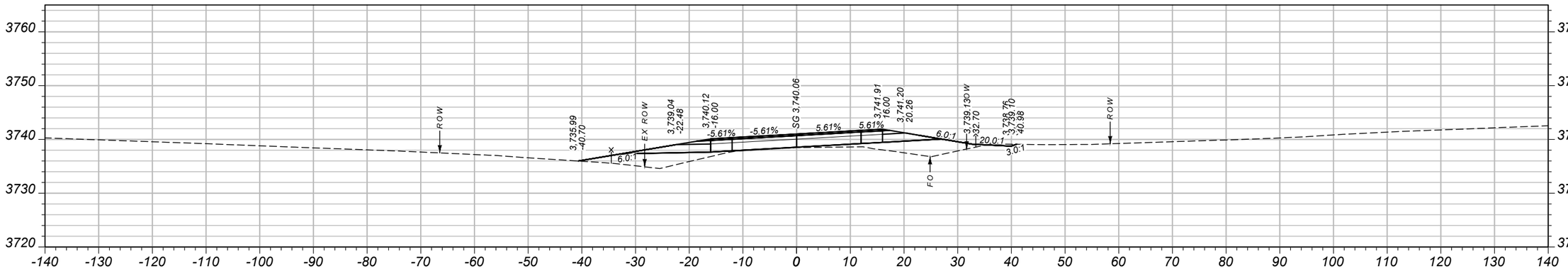
MONTANA Department of Transportation

CROSS SECTIONS

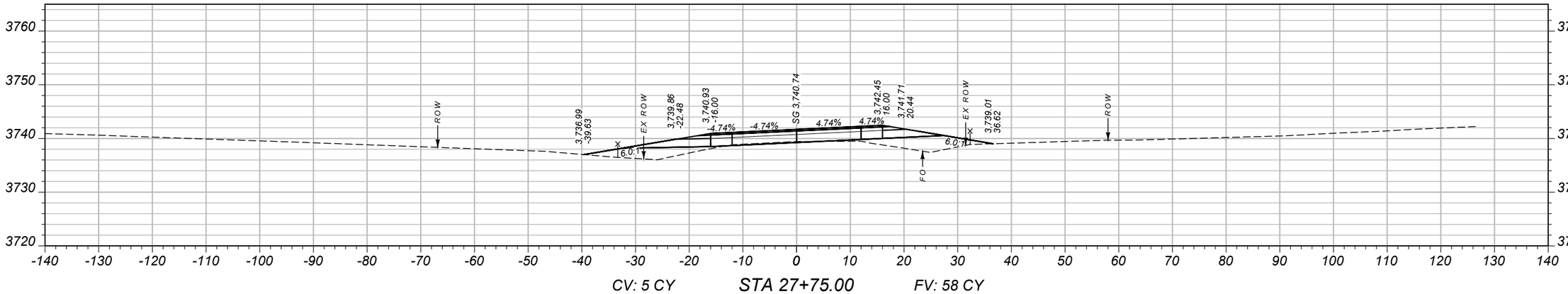
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9116000RDXSF200.DWG

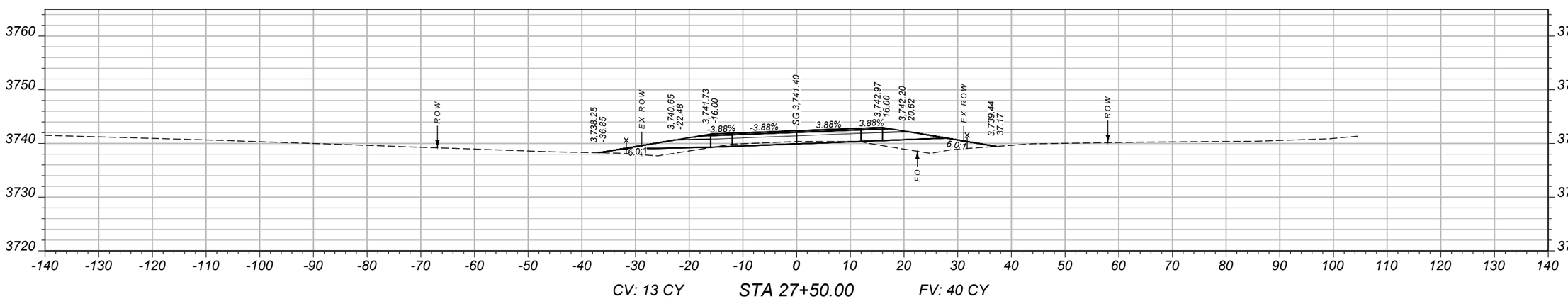
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 2 CY STA 28+00.00 FV: 76 CY



CV: 5 CY STA 27+75.00 FV: 58 CY



CV: 13 CY STA 27+50.00 FV: 40 CY

SHEET NO.
28

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY		DATE
B HENDERSON		02/2024
REVIEWED BY		DATE
J. BROTZLER		02/2024
CHECKED BY		DATE
J. CERECK		11/2024

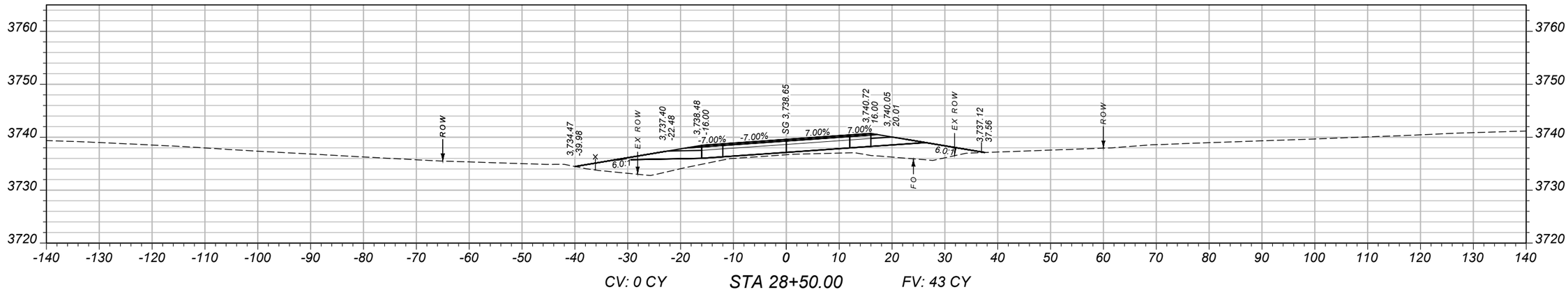
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MONTANA
Department of Transportation

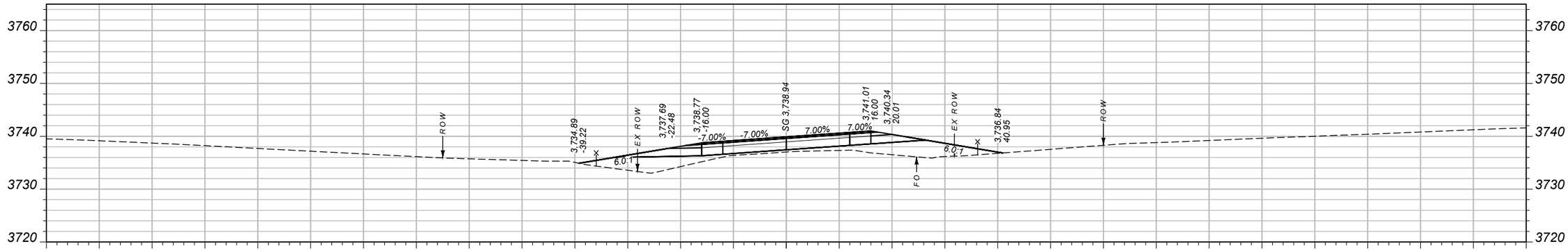
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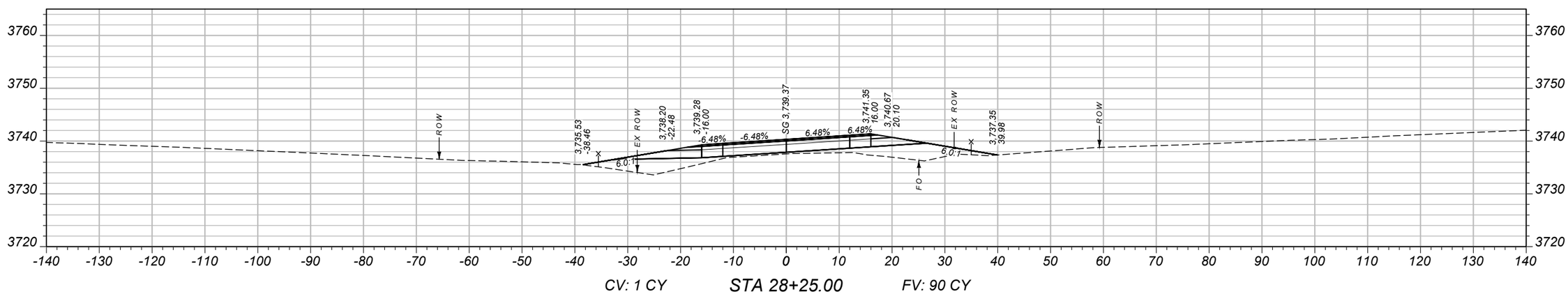
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CV: 0 CY STA 28+50.00 FV: 43 CY



CV: 0 CY STA 28+40.00 FV: 62 CY



CV: 1 CY STA 28+25.00 FV: 90 CY

SHEET NO. 29

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

MONTANA Department of Transportation

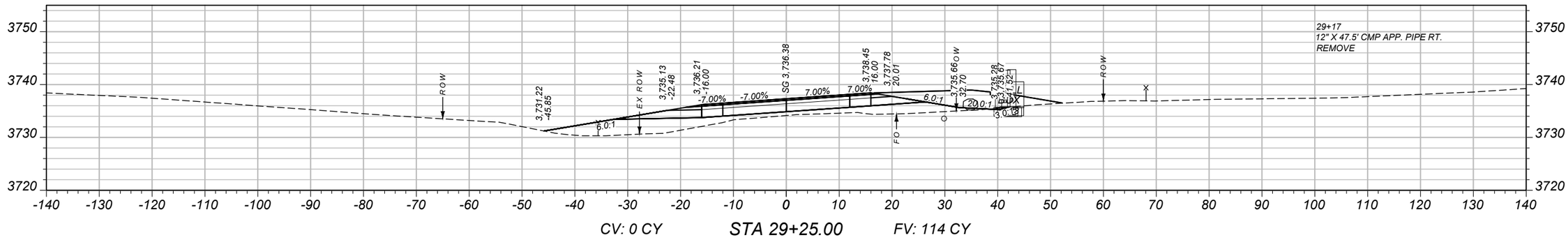
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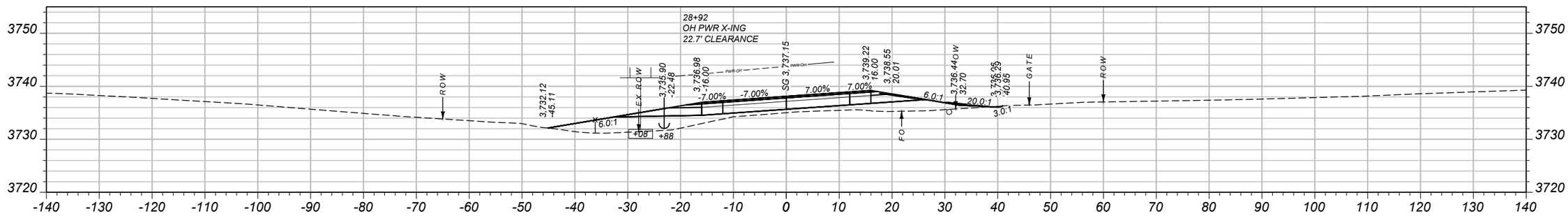
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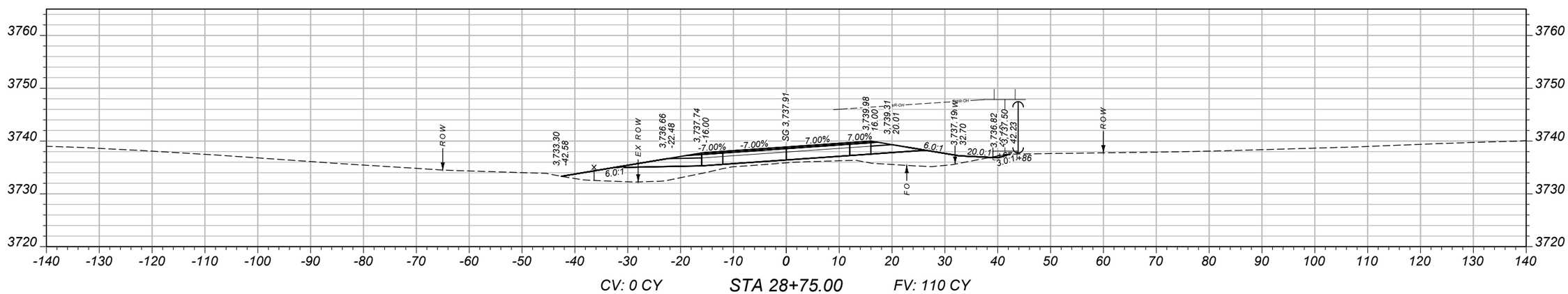
AWARD COPY



CV: 0 CY STA 29+25.00 FV: 114 CY



CV: 0 CY STA 29+00.00 FV: 113 CY



CV: 0 CY STA 28+75.00 FV: 110 CY

SHEET NO. 30

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

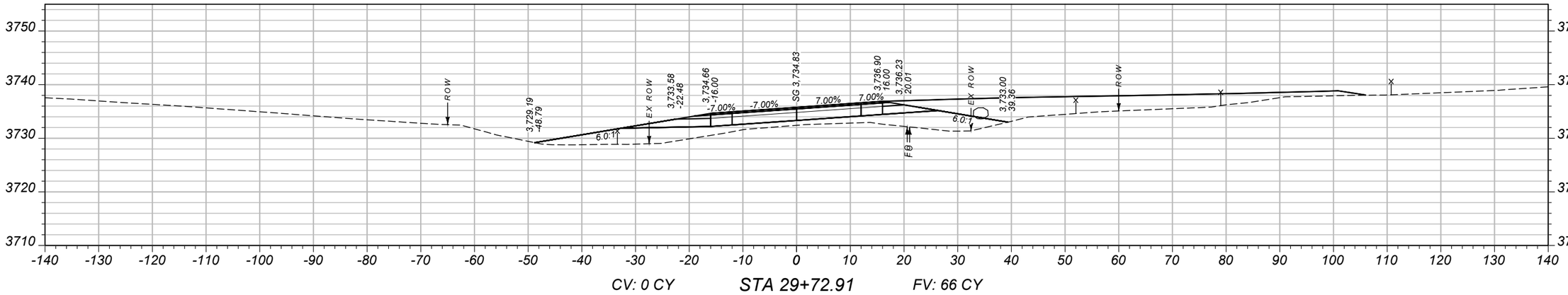
MONTANA Department of Transportation

CROSS SECTIONS

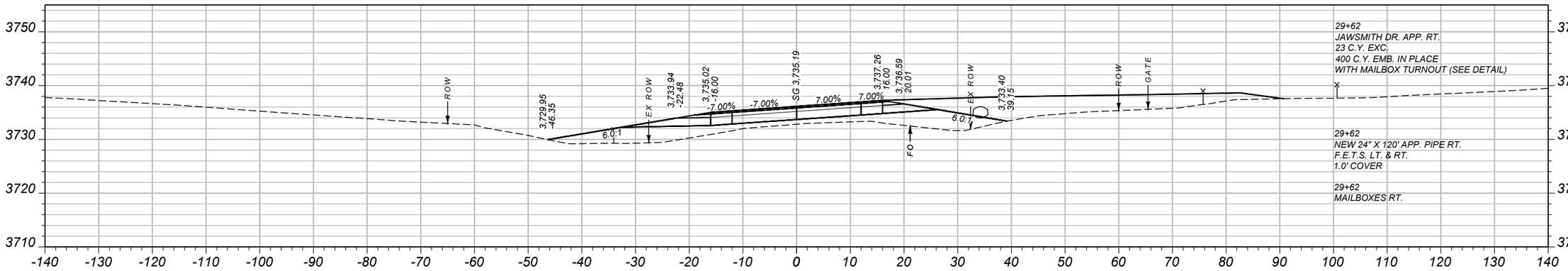
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9116000RDXSF200.DWG

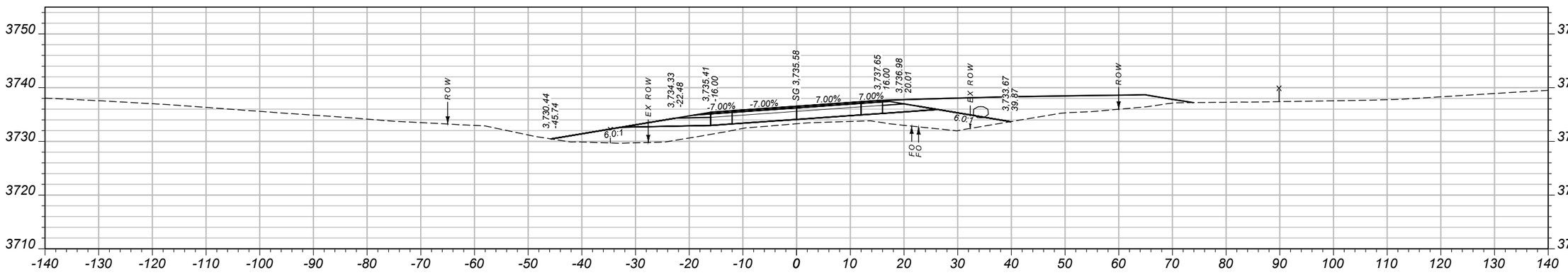
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CV: 0 CY STA 29+72.91 FV: 66 CY



CV: 0 CY STA 29+62.00 FV: 70 CY



CV: 0 CY STA 29+50.00 FV: 130 CY

SHEET NO.
31

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024
B HENDERSON	
REVIEWED BY	02/2024
J. BROTZLER	
CHECKED BY	11/2024
J. CERECK	

9116000RDXSF200.DWG

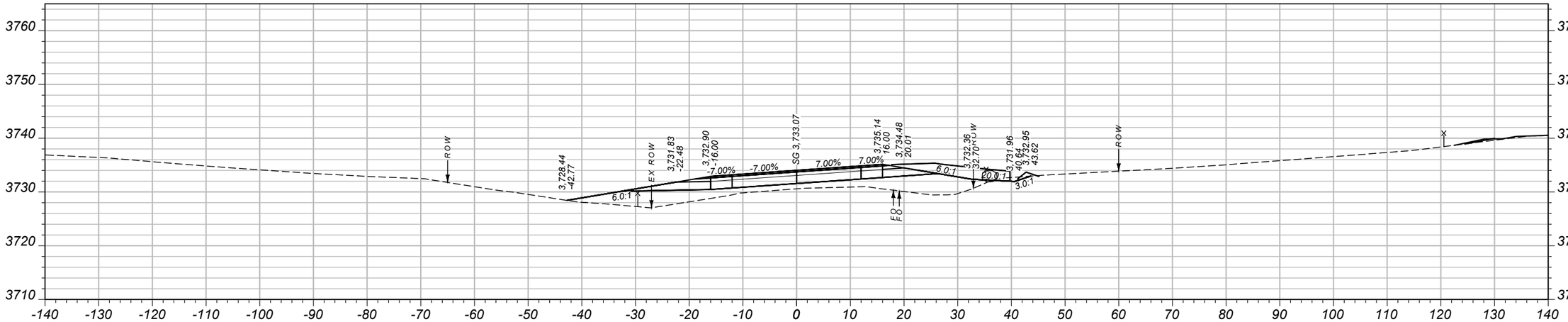
MONTANA
Department of Transportation

CROSS SECTIONS

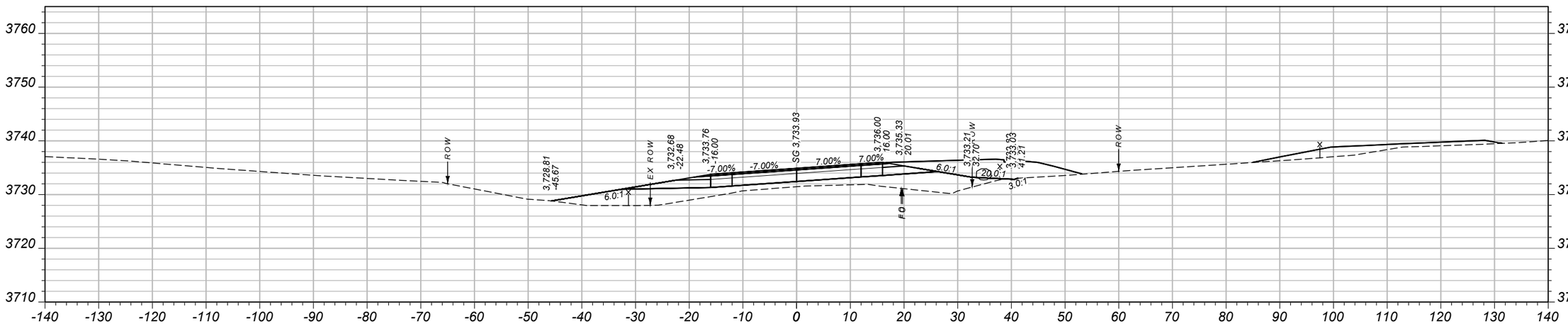
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY



CV: 2 CY STA 30+25.00 FV: 145 CY



CV: 0 CY STA 30+00.00 FV: 163 CY

SHEET NO. 32

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

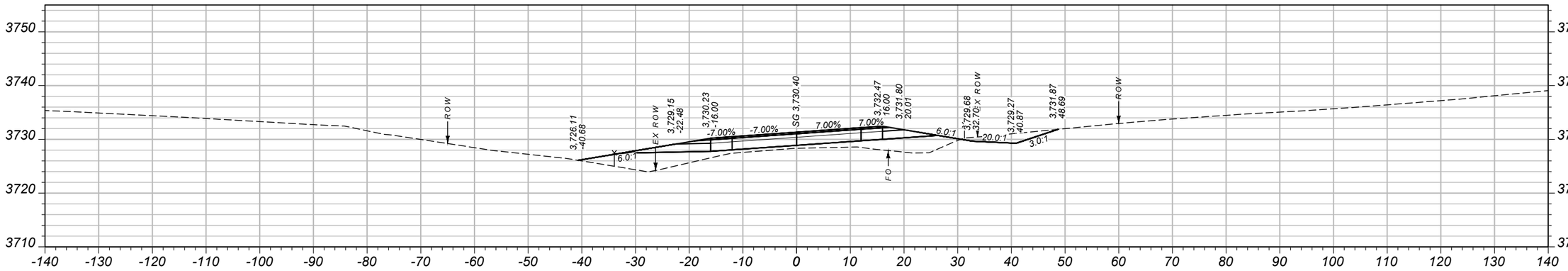
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MONTANA
Department of Transportation

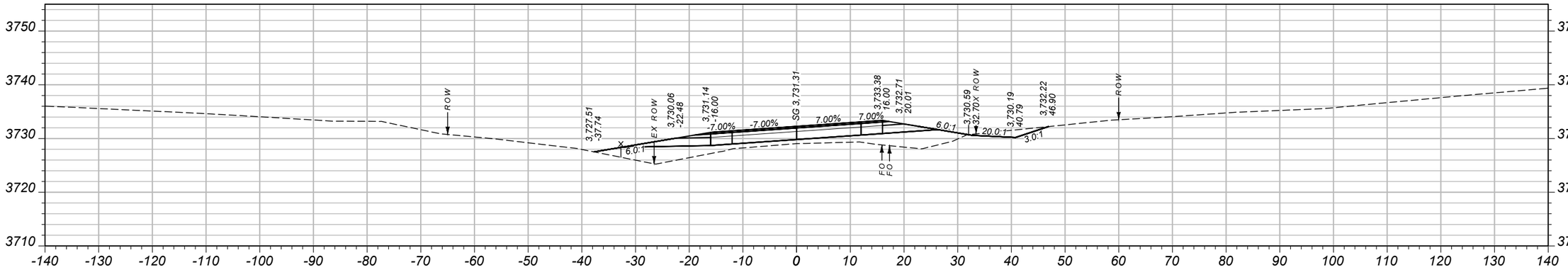
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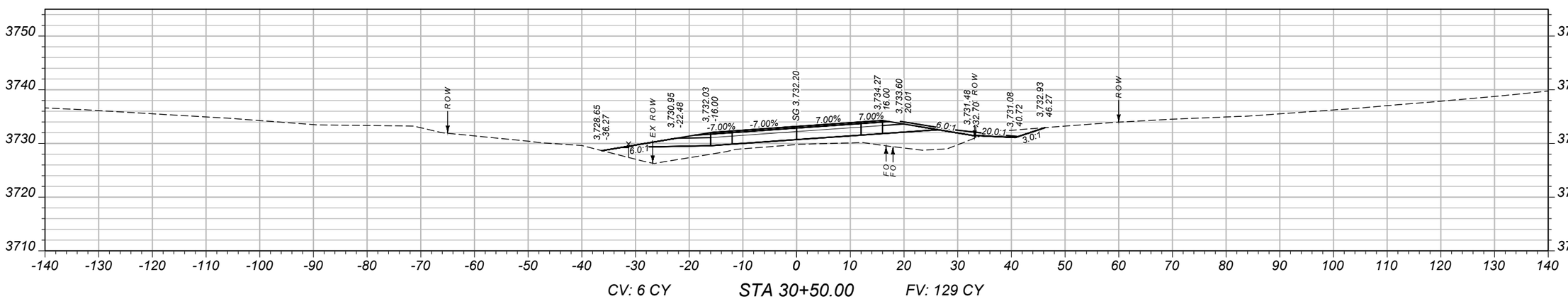
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 14 CY STA 31+00.00 FV: 107 CY



CV: 10 CY STA 30+75.00 FV: 114 CY



CV: 6 CY STA 30+50.00 FV: 129 CY

SHEET NO. 33

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. CERECK	
REVIEWED BY	02/2024		
J. BROTZLER			

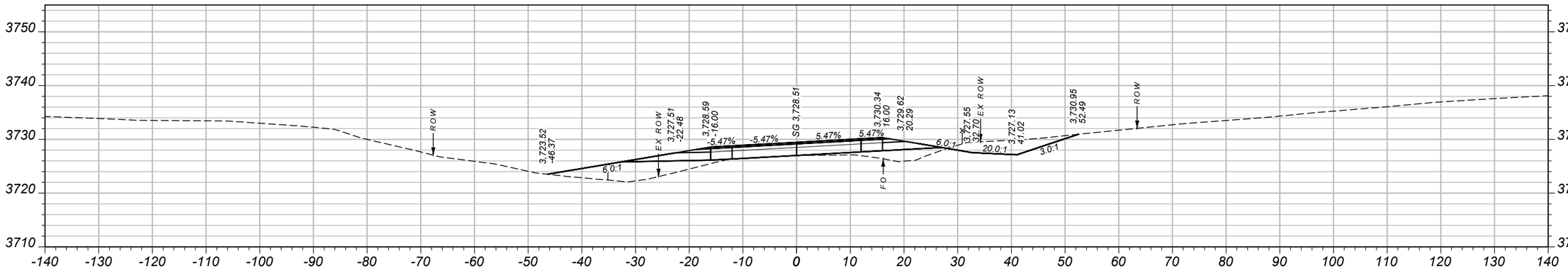
MONTANA Department of Transportation

CROSS SECTIONS

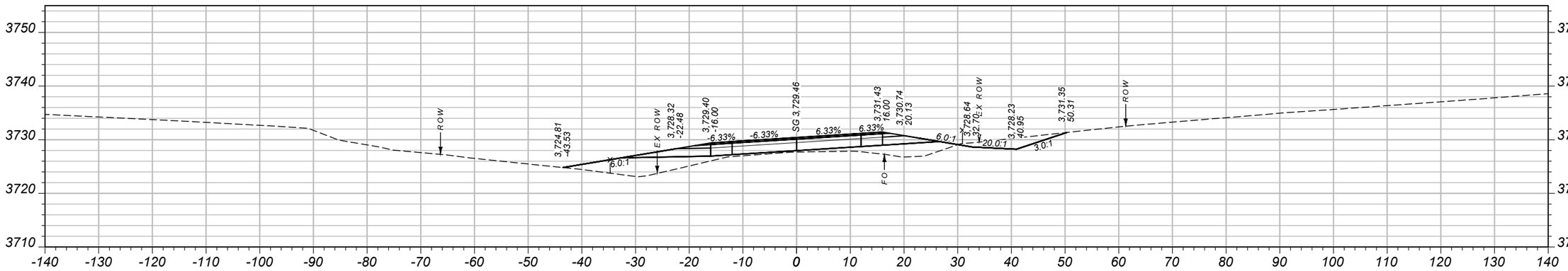
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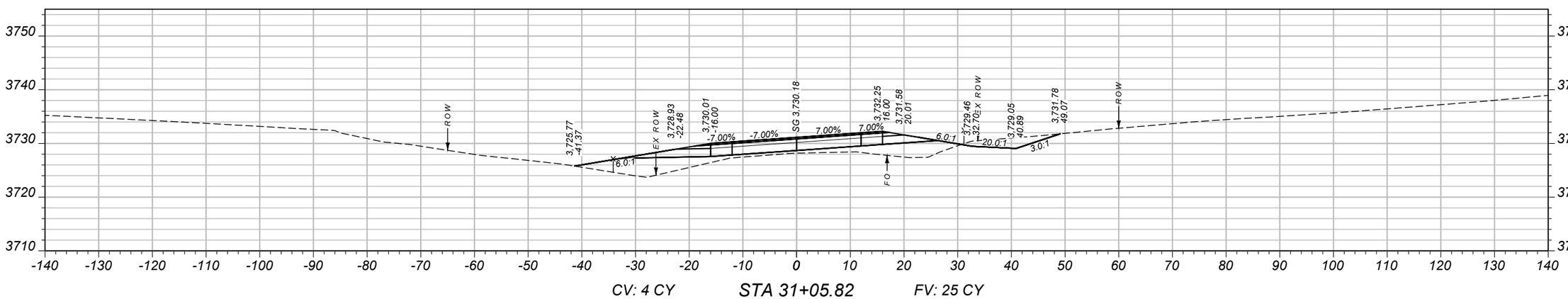
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CV: 30 CY STA 31+50.00 FV: 91 CY



CV: 16 CY STA 31+25.00 FV: 77 CY



CV: 4 CY STA 31+05.82 FV: 25 CY

SHEET NO.
34

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

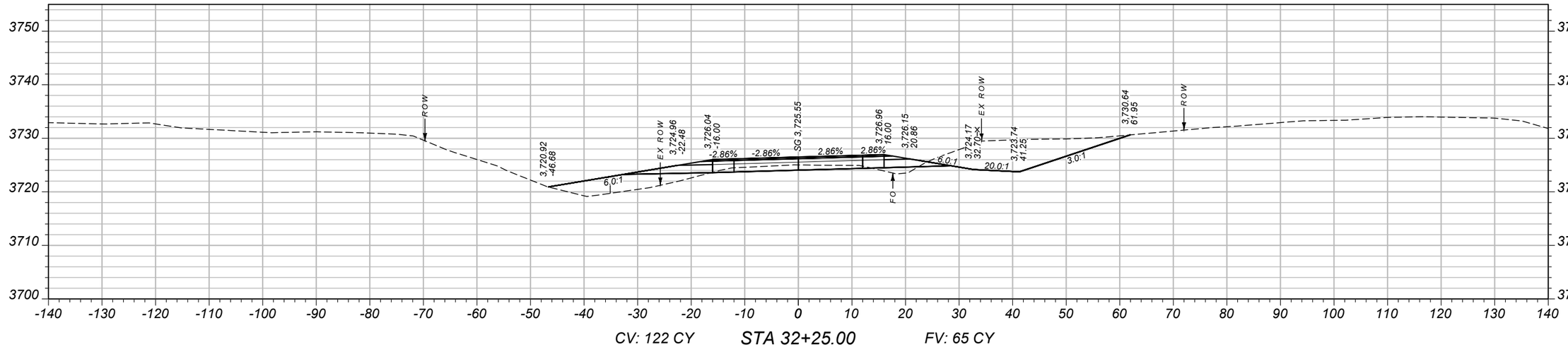
9116000RDXSF200.DWG

MONTANA
Department of Transportation

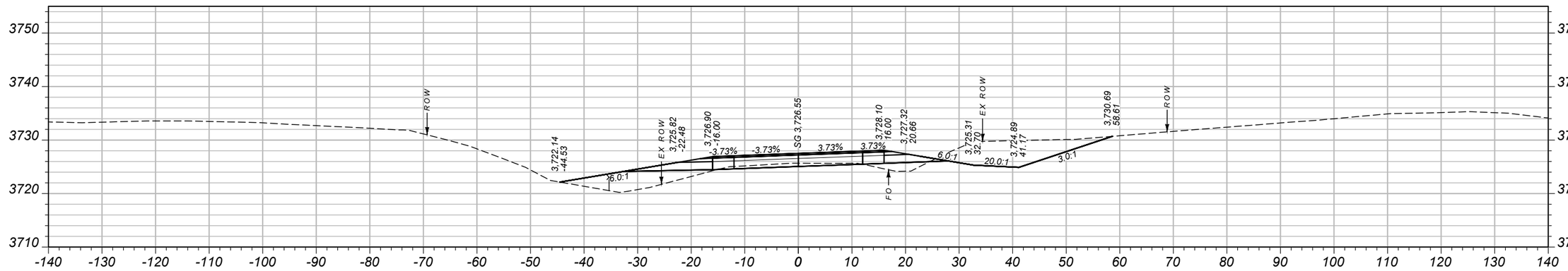
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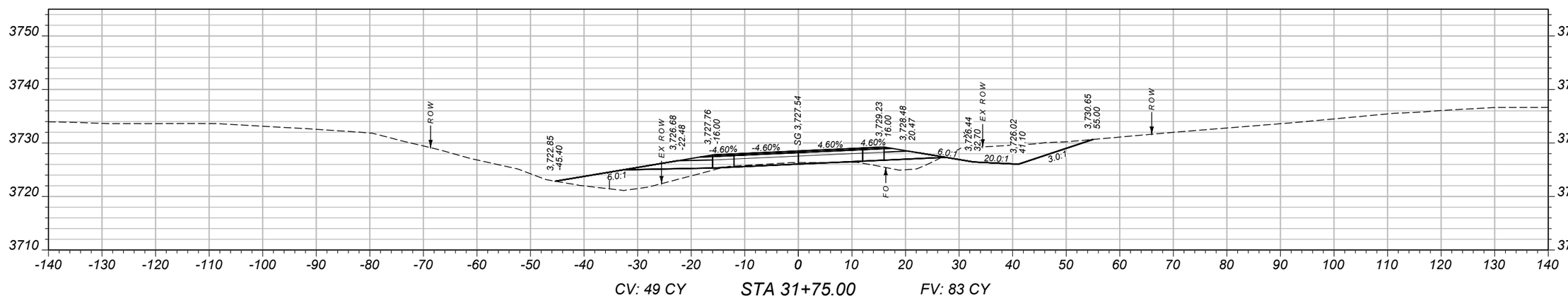
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CV: 122 CY STA 32+25.00 FV: 65 CY



CV: 81 CY STA 32+00.00 FV: 73 CY



CV: 49 CY STA 31+75.00 FV: 83 CY

SHEET NO. 35

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID

COUNTY: STILLWATER COUNTY

PROJECT ID: HSIP 421-1(13)5

UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

MONTANA Department of Transportation

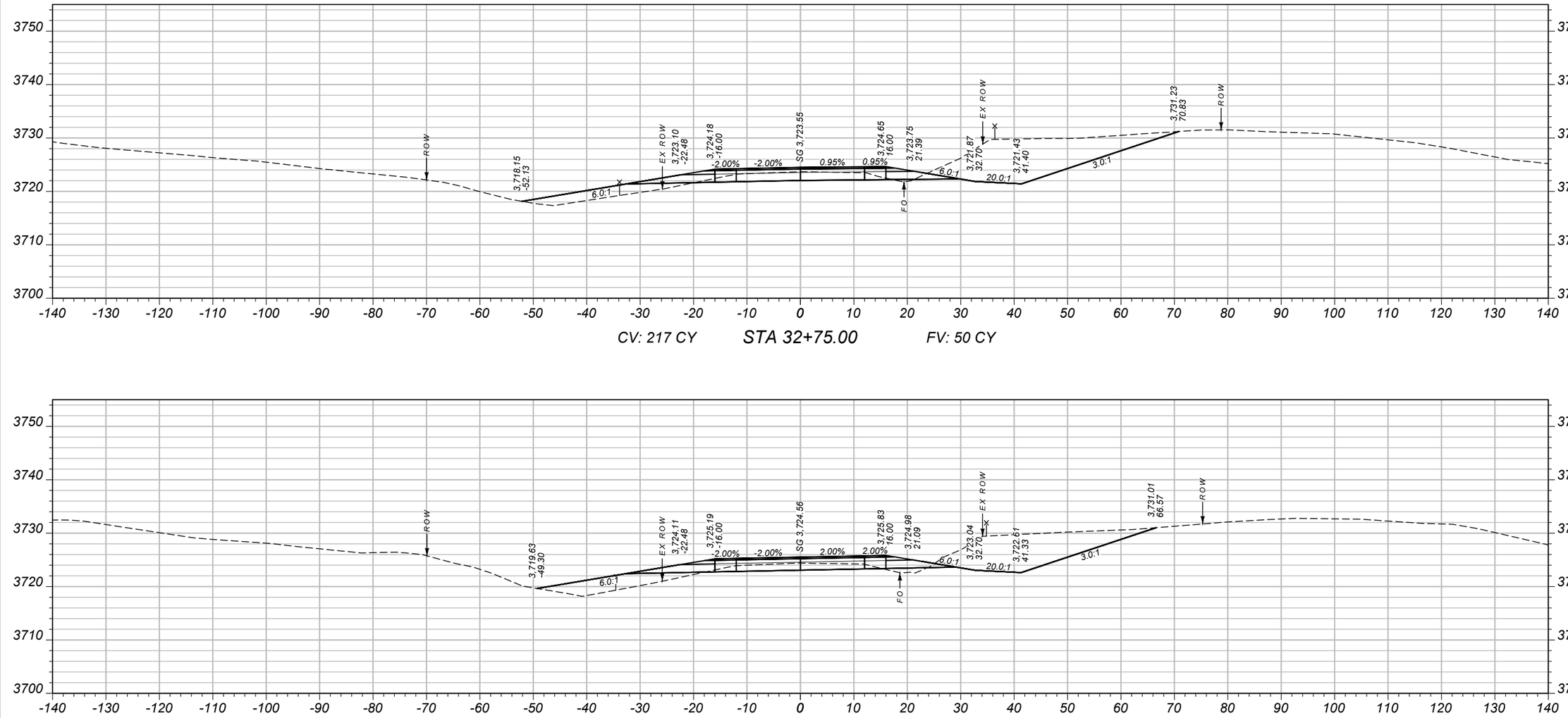
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9116000RDXSF200.DWG

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY



SHEET NO. 36

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	B HENDERSON	
REVIEWED BY	02/2024	J. BROTZLER	
CHECKED BY	11/2024	J. CERECK	

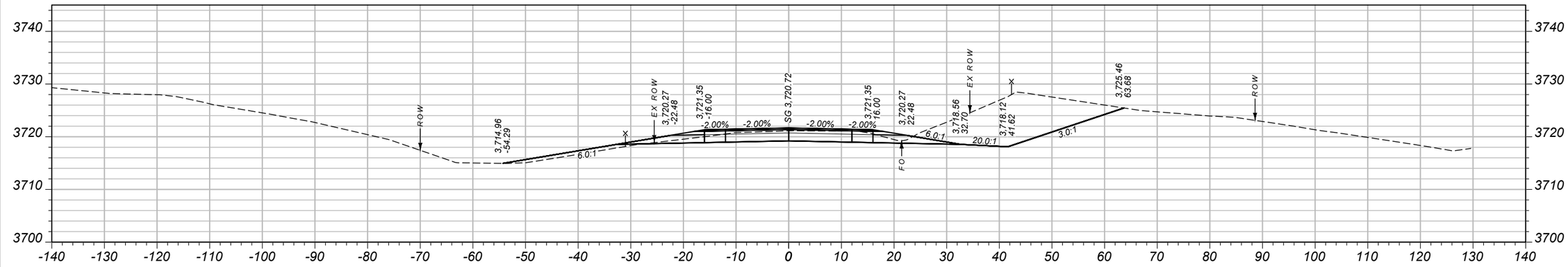
9116000RDXSF200.DWG

MONTANA
Department of Transportation

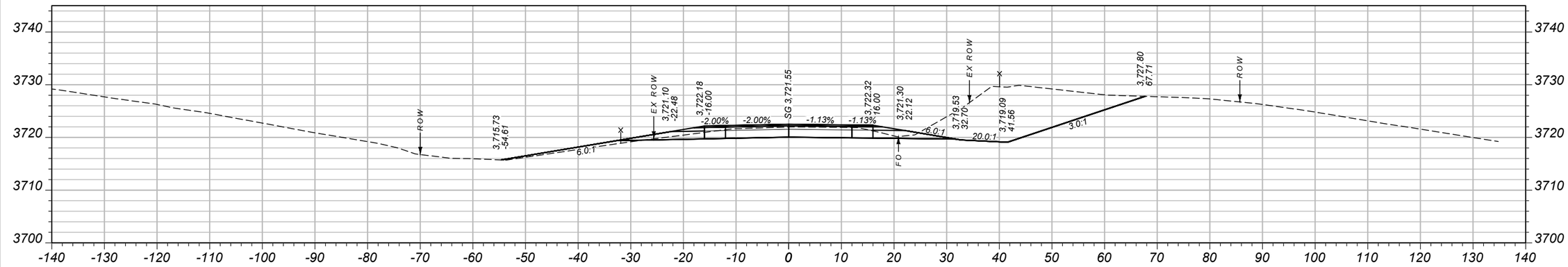
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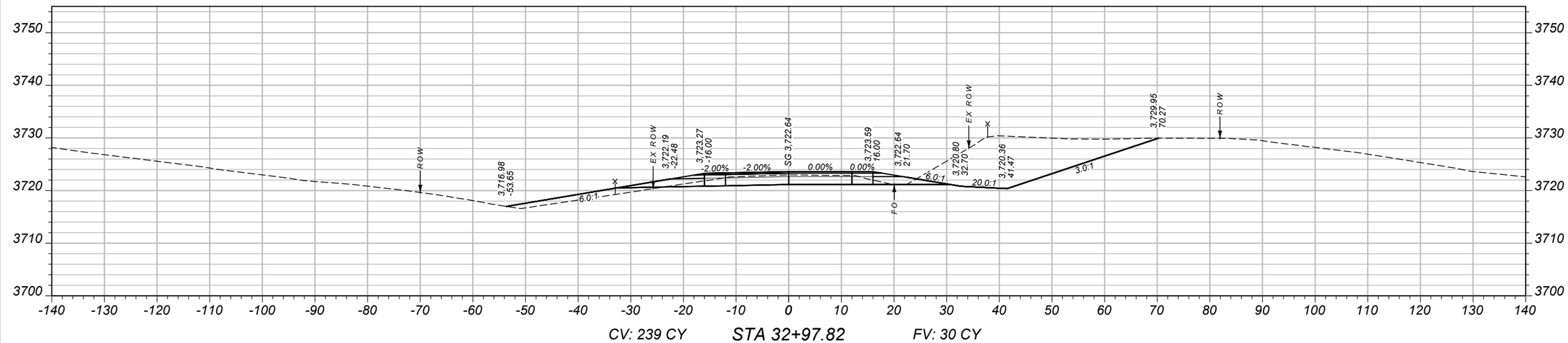
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 233 CY STA 33+45.82 FV: 9 CY



CV: 313 CY STA 33+25.00 FV: 18 CY



CV: 239 CY STA 32+97.82 FV: 30 CY

SHEET NO.
37

CROSS SECTIONS

PROJECT NAME: **SF 159 SE COLUMBUS SHLDR WID**
COUNTY: **STILLWATER COUNTY**
PROJECT ID: **HSIP 421-1(13)5**
UPN: **9116000**

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

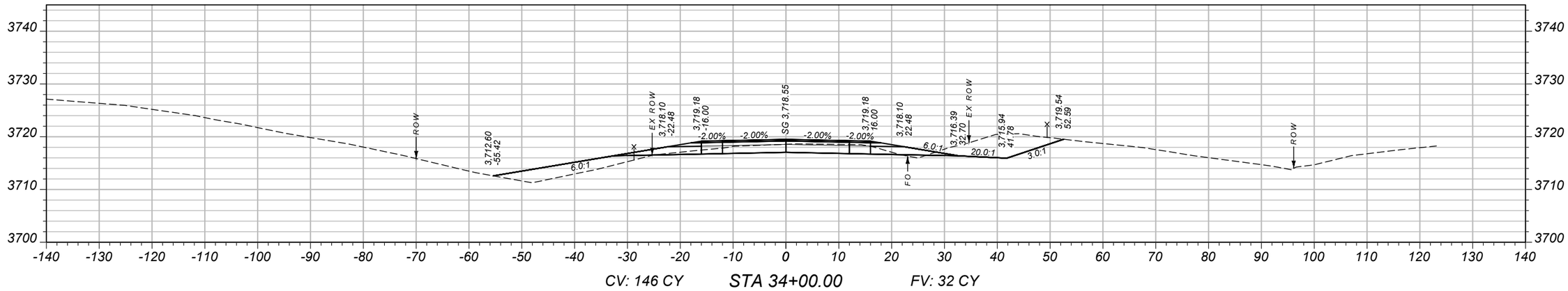
9116000RDXSF200.DWG

MONTANA
Department of Transportation

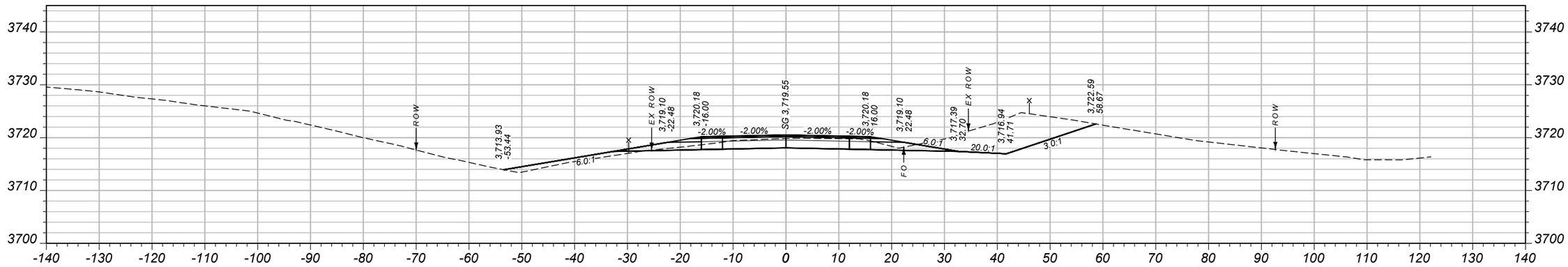
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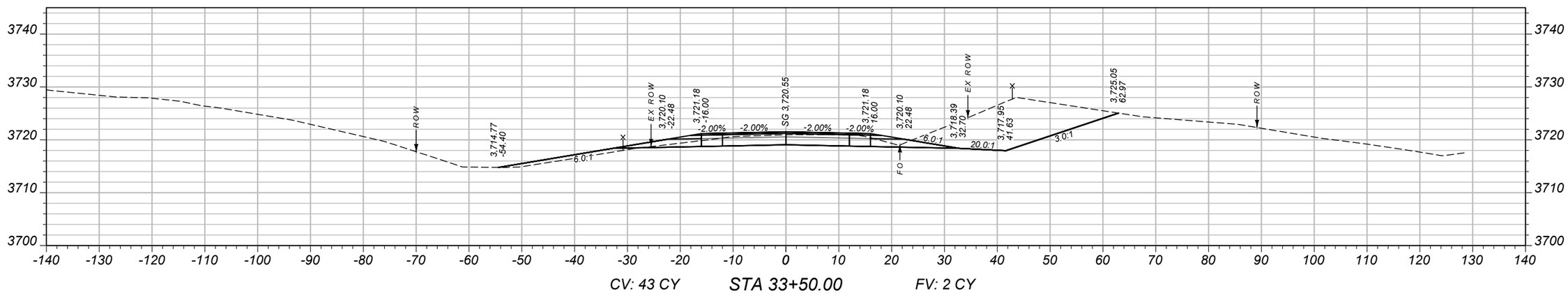
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 146 CY STA 34+00.00 FV: 32 CY



CV: 218 CY STA 33+75.00 FV: 15 CY



CV: 43 CY STA 33+50.00 FV: 2 CY

SHEET NO. 38

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

MONTANA Department of Transportation

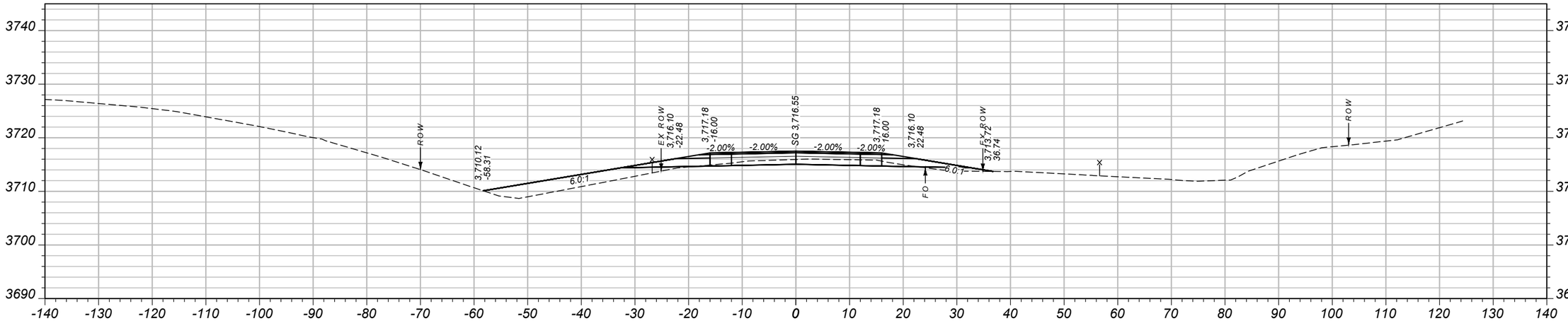
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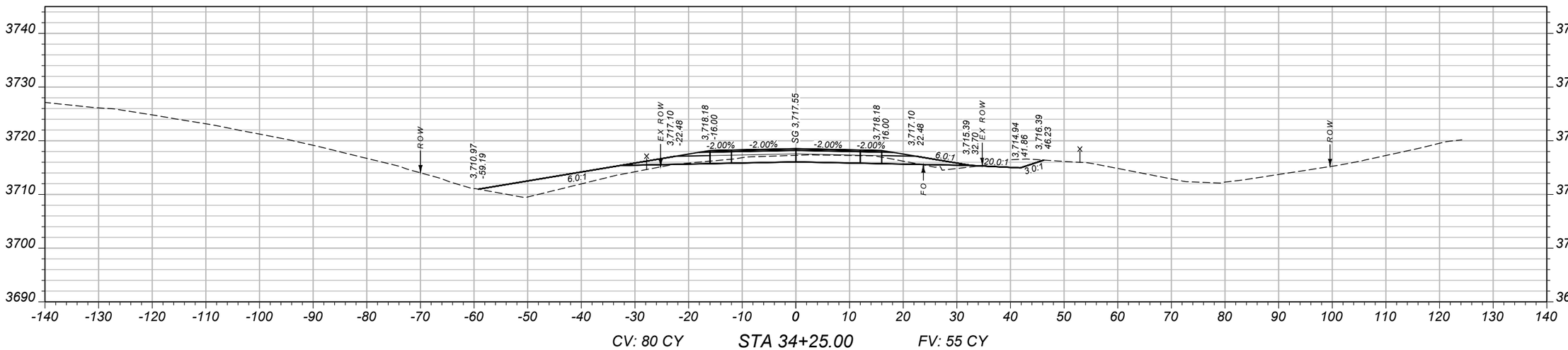
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY



CV: 39 CY STA 34+50.00 FV: 65 CY



CV: 80 CY STA 34+25.00 FV: 55 CY

SHEET NO.
39

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	B HENDERSON	
REVIEWED BY	02/2024	J. BROTZLER	
CHECKED BY	11/2024	J. CERECK	

9116000RDXSF200.DWG

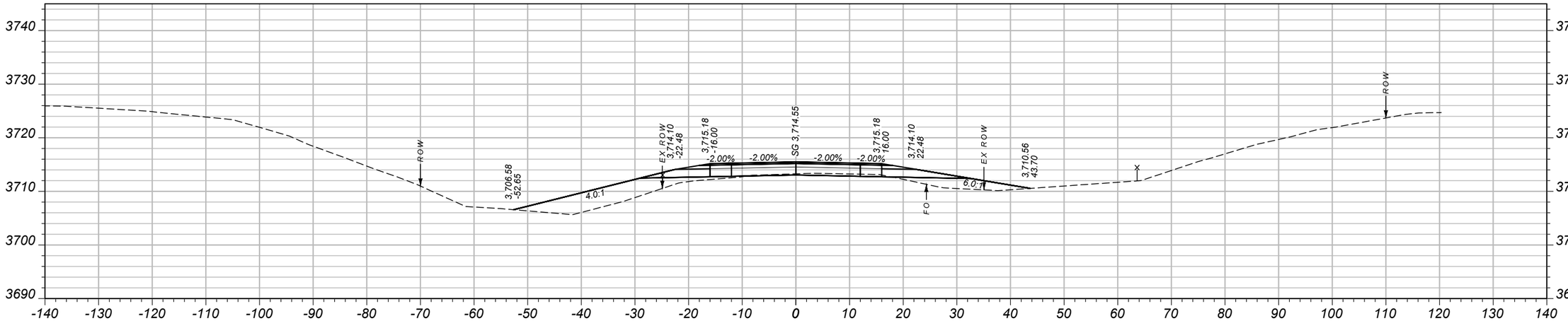
MONTANA
Department of Transportation

CROSS SECTIONS

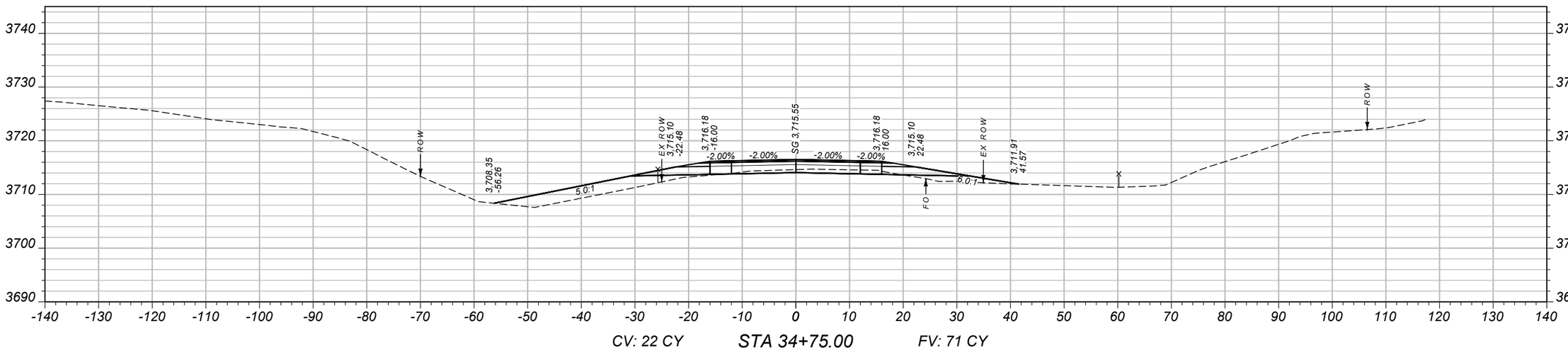
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AWARD COPY



CV: 12 CY STA 35+00.00 FV: 92 CY



CV: 22 CY STA 34+75.00 FV: 71 CY

SHEET NO.
40

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	B HENDERSON	
REVIEWED BY	02/2024	J. BROTZLER	
CHECKED BY	11/2024	J. CERECK	

9116000RDXSF200.DWG

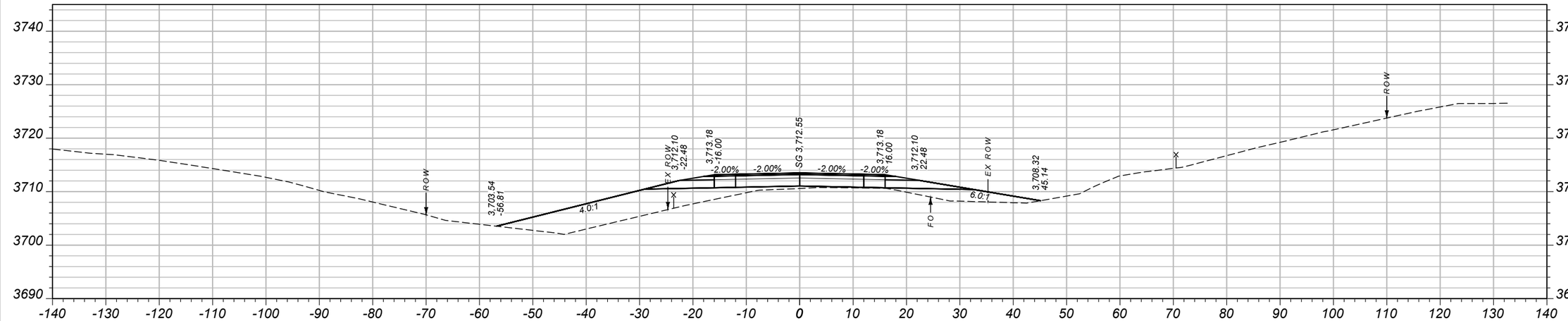
MONTANA
Department of Transportation

CROSS SECTIONS

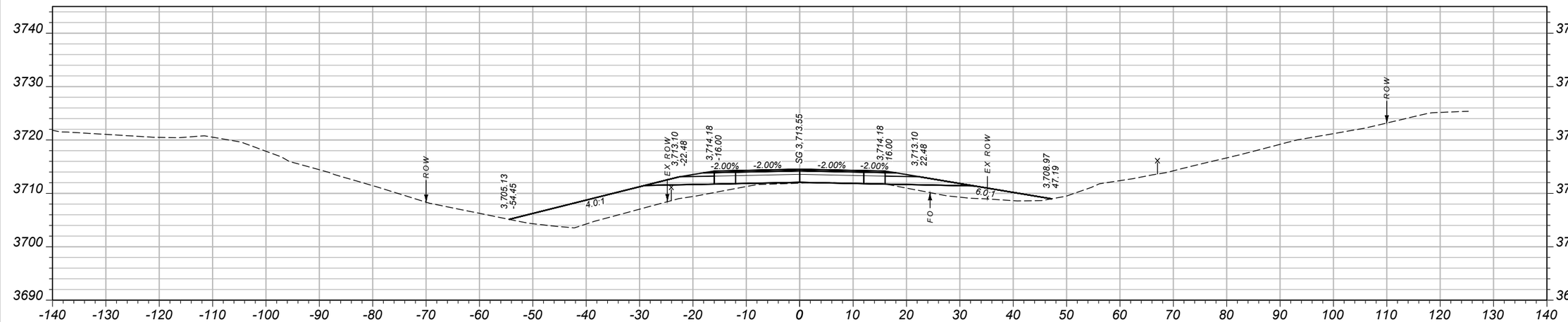
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY



CV: 0 CY STA 35+50.00 FV: 177 CY



CV: 4 CY STA 35+25.00 FV: 136 CY

SHEET NO.
41

CROSS SECTIONS

PROJECT NAME **SF 159 SE COLUMBUS SHLDR WID**
COUNTY **STILLWATER COUNTY**
PROJECT ID **HSIP 421-1(13)5**
UPN **9116000**

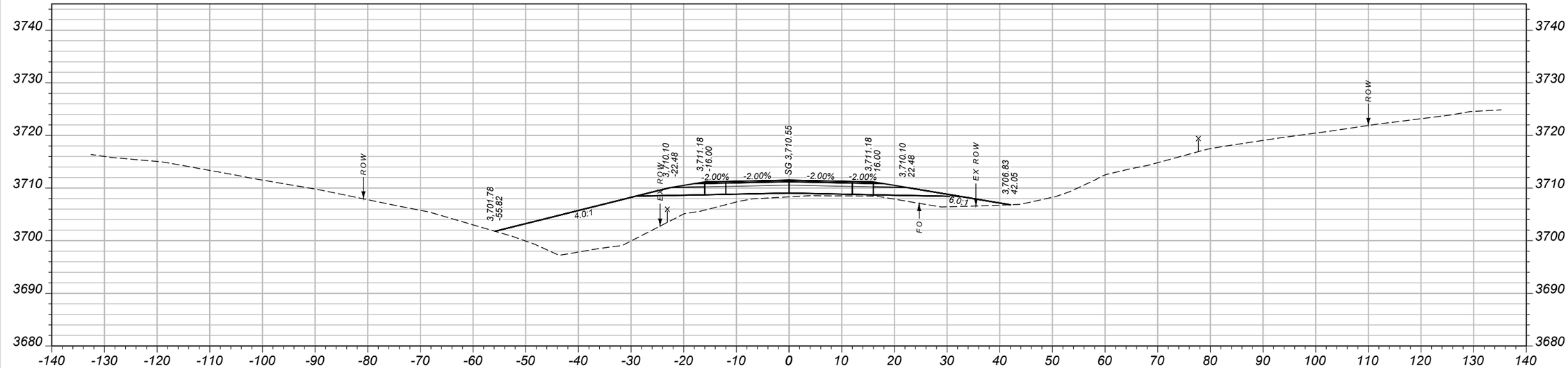
DESIGNED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. CERECK	9116000RDXSF200.DWG
REVIEWED BY	02/2024		
J. BROTZLER			

MONTANA
Department of Transportation

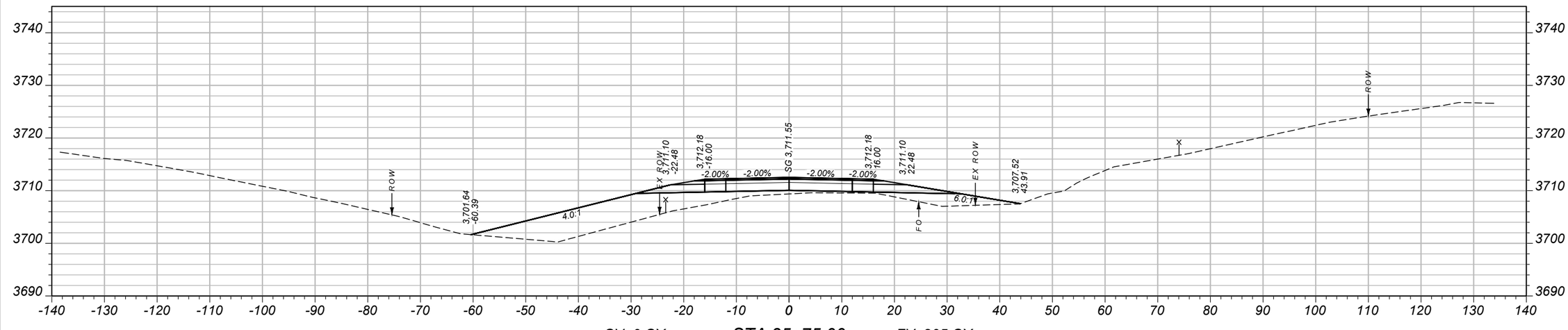
CROSS SECTIONS

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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 0 CY STA 36+00.00 FV: 243 CY



CV: 0 CY STA 35+75.00 FV: 205 CY

SHEET NO. 42

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

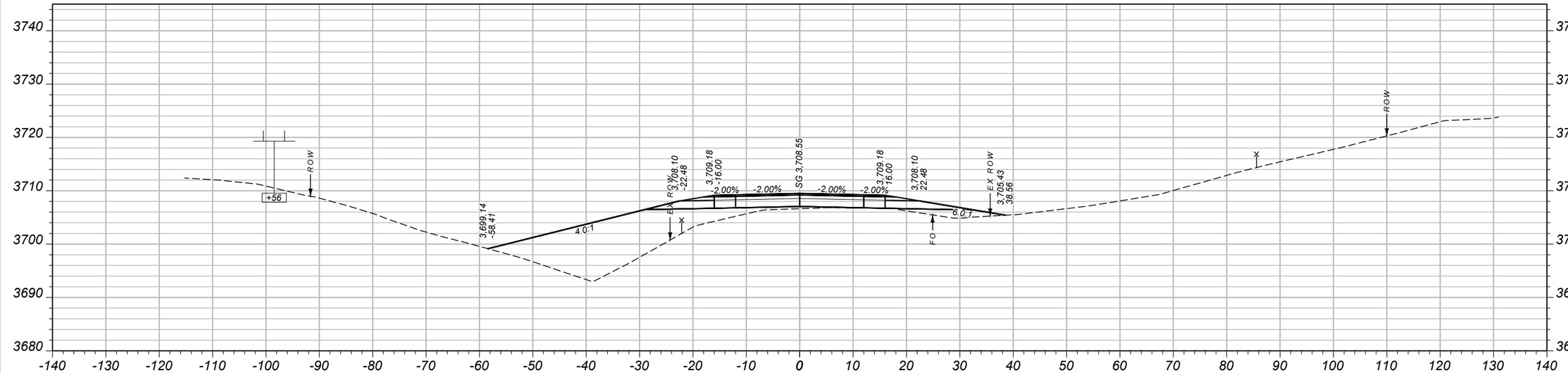
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MONTANA
Department of Transportation

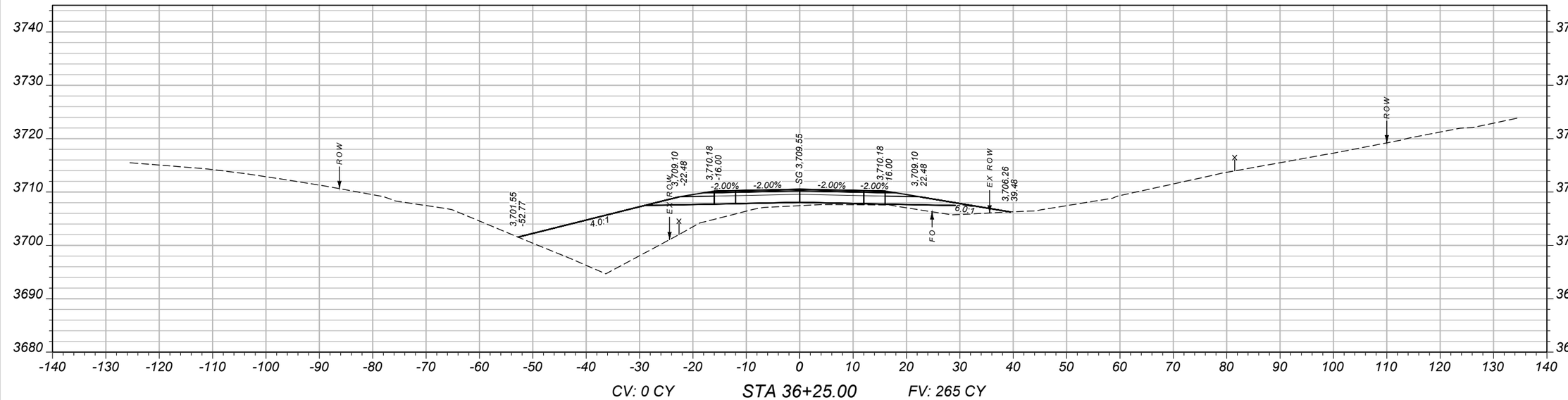
CROSS SECTIONS

3/11/2025 4:46 PM

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 0 CY STA 36+50.00 FV: 273 CY



CV: 0 CY STA 36+25.00 FV: 265 CY

SHEET NO. 43

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

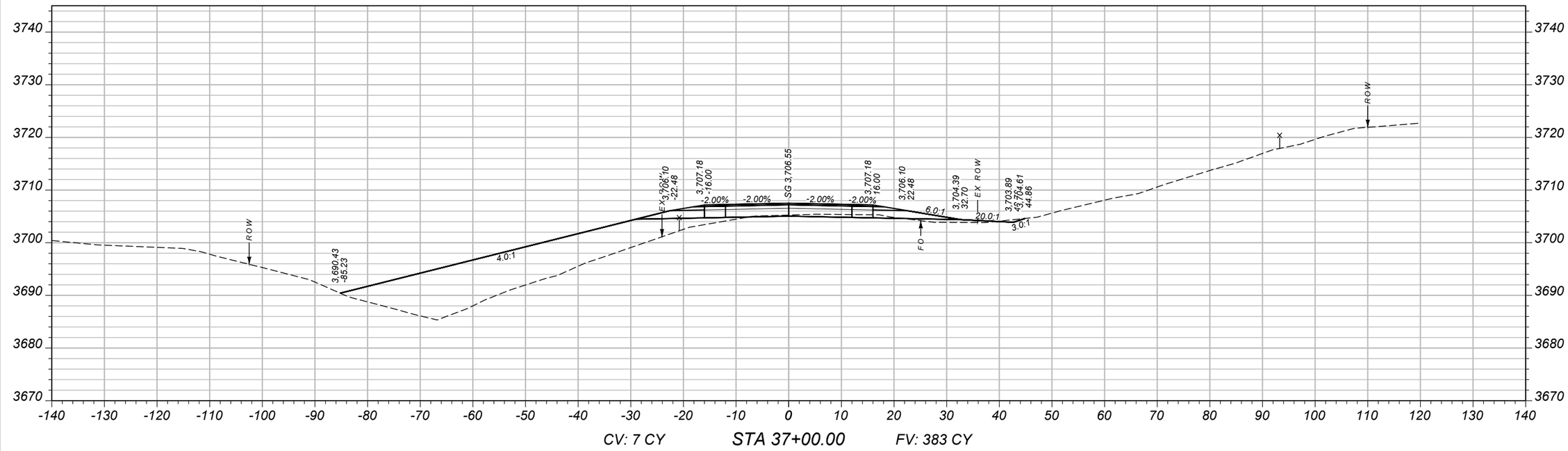
DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	9116000RDXSF200.DWG

MONTANA Department of Transportation

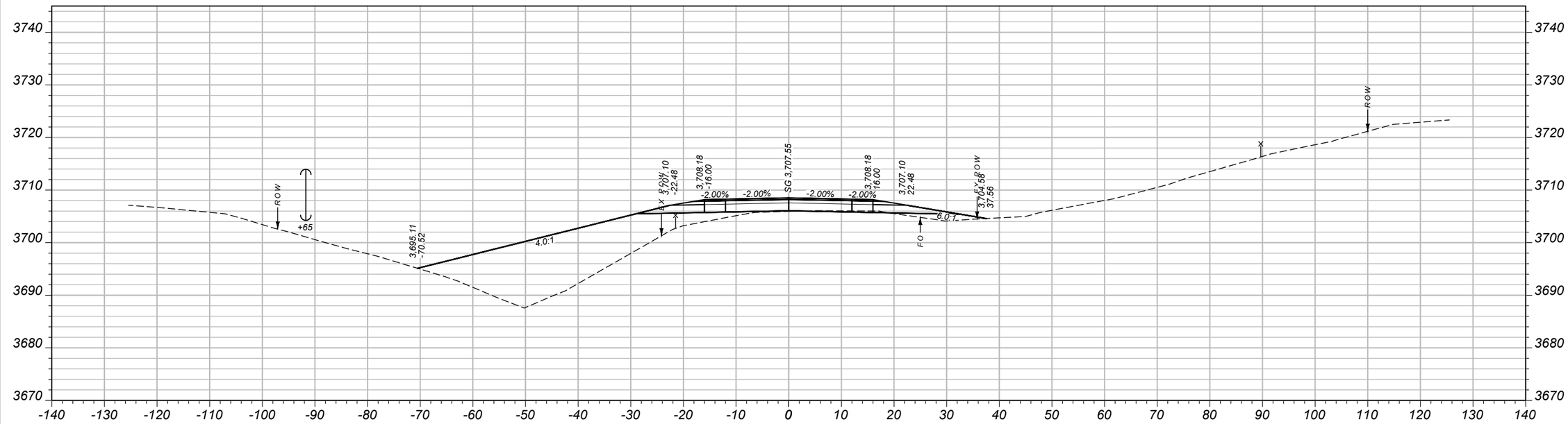
CROSS SECTIONS

3/11/2025 4:46 PM

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 7 CY STA 37+00.00 FV: 383 CY



CV: 1 CY STA 36+75.00 FV: 332 CY

SHEET NO.
44

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

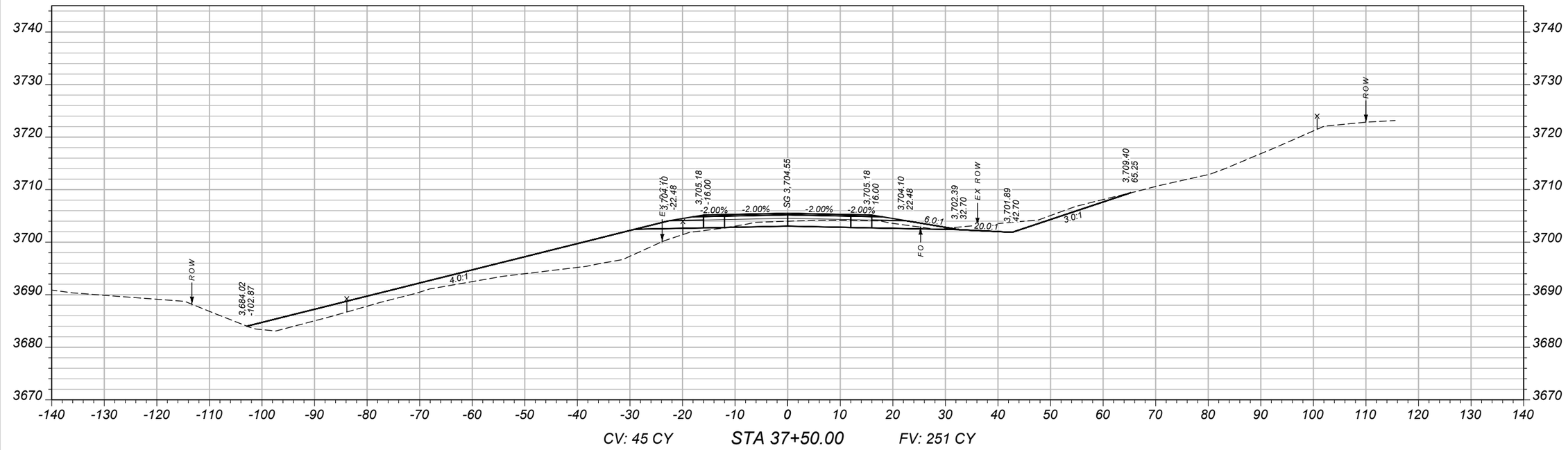
DESIGNED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. CERECK	9116000RDXSF200.DWG
REVIEWED BY	02/2024		
J. BROTZLER			

MONTANA
Department of Transportation

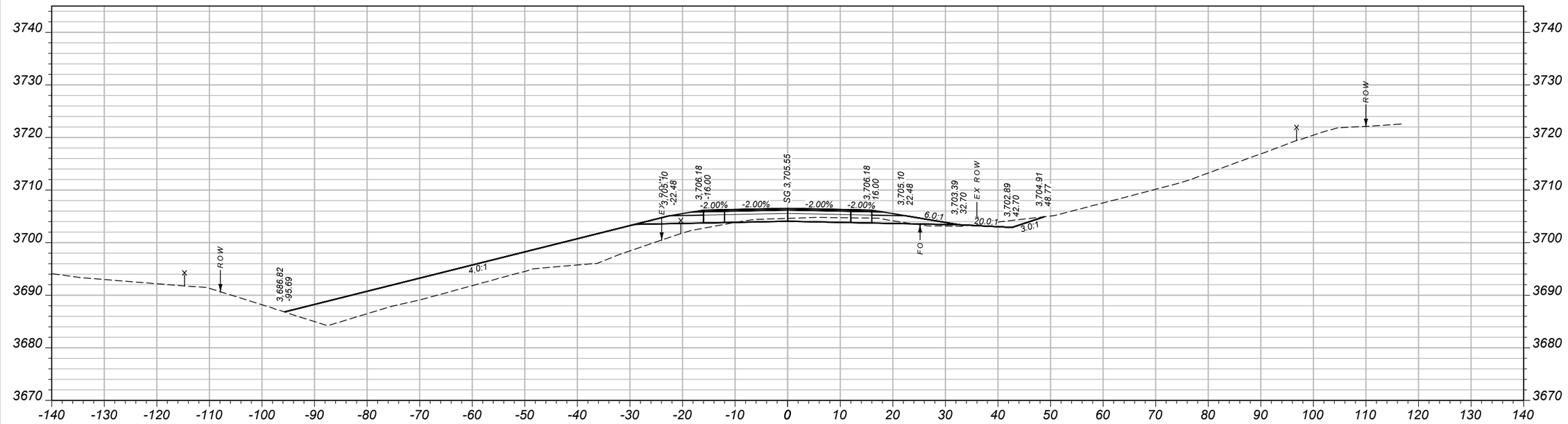
CROSS SECTIONS

3/11/2025 4:46 PM

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 45 CY STA 37+50.00 FV: 251 CY



CV: 20 CY STA 37+25.00 FV: 336 CY

SHEET NO.
45

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

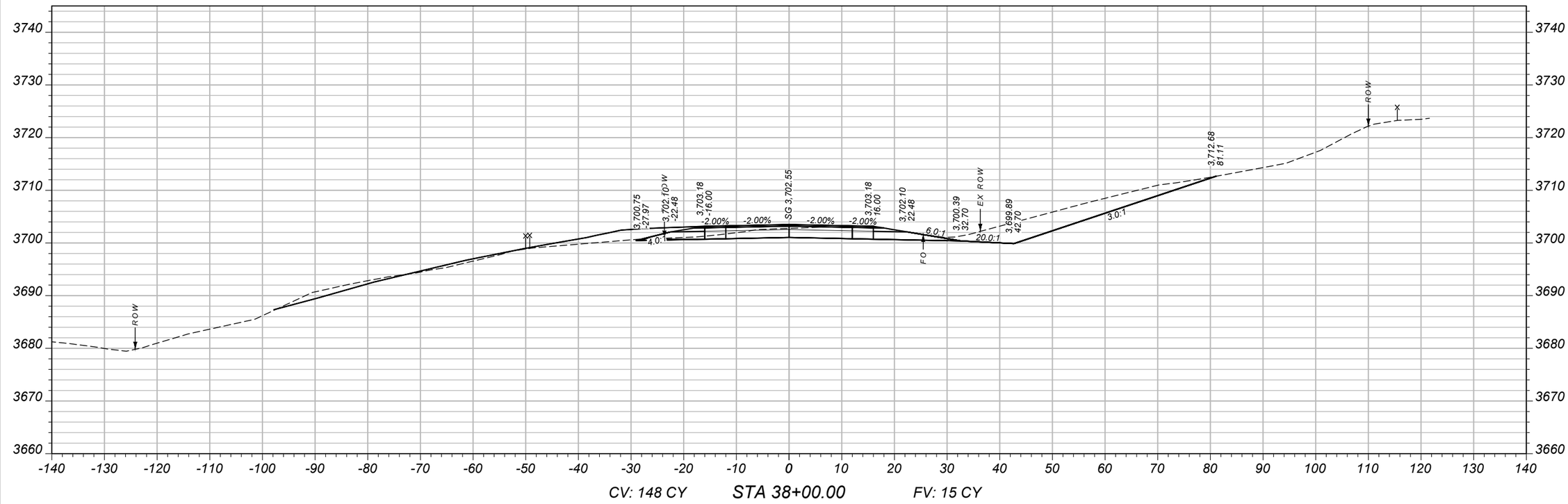
DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B.HENDERSON		J. BROTZLER		J. CERECK	9116000RDXSF200.DWG

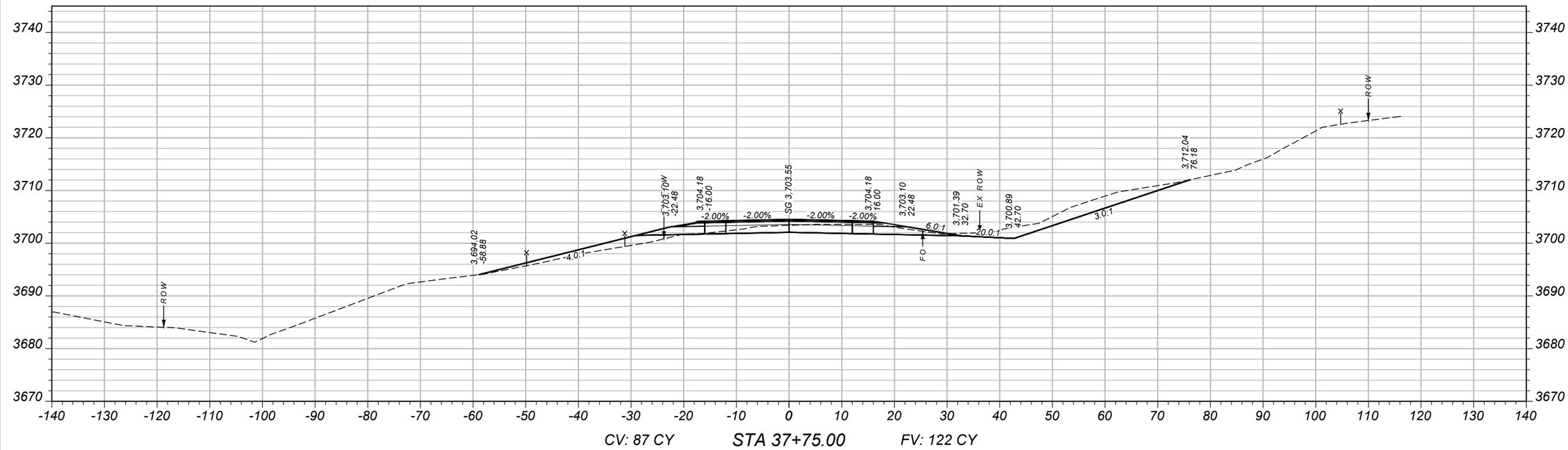
MONTANA
Department of Transportation

CROSS SECTIONS

3/11/2025 4:46 PM

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B





SHEET NO. 46

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	9116000RDXSF200.DWG

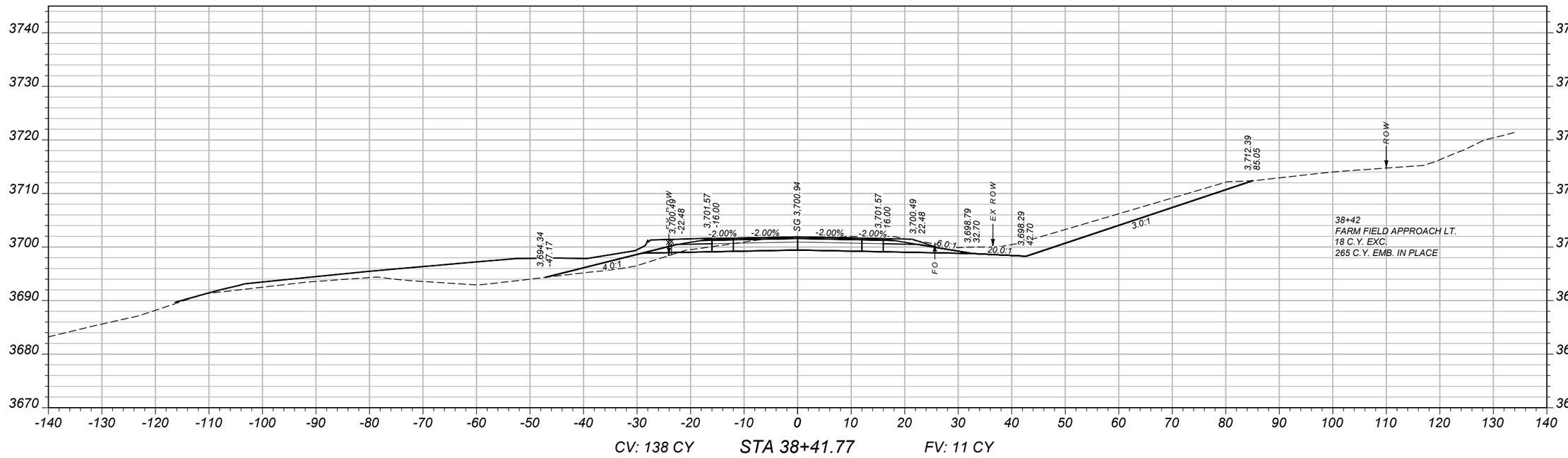
MONTANA
Department of Transportation

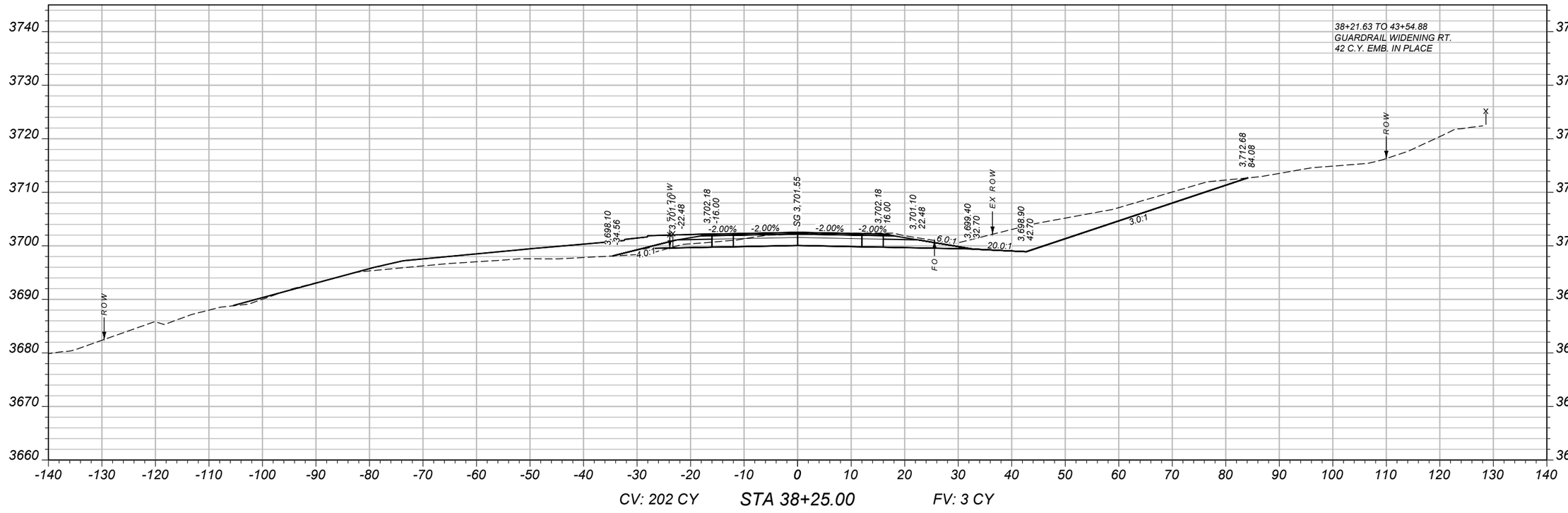
CROSS SECTIONS

3/11/2025 4:46 PM

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AWARD COPY





SHEET NO.
47

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

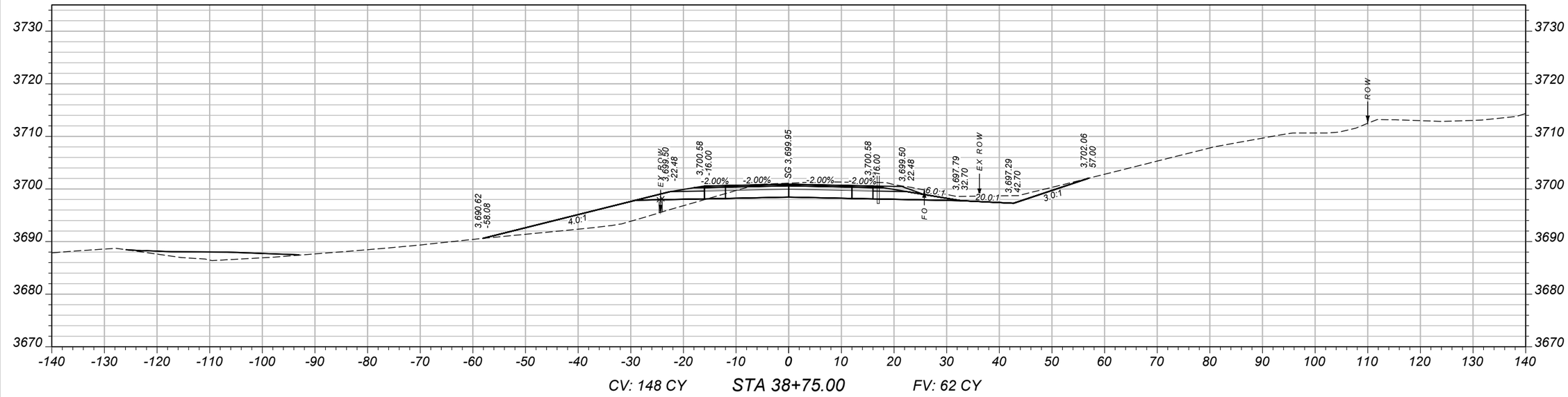
9116000RDXSF200.DWG

MONTANA
Department of Transportation

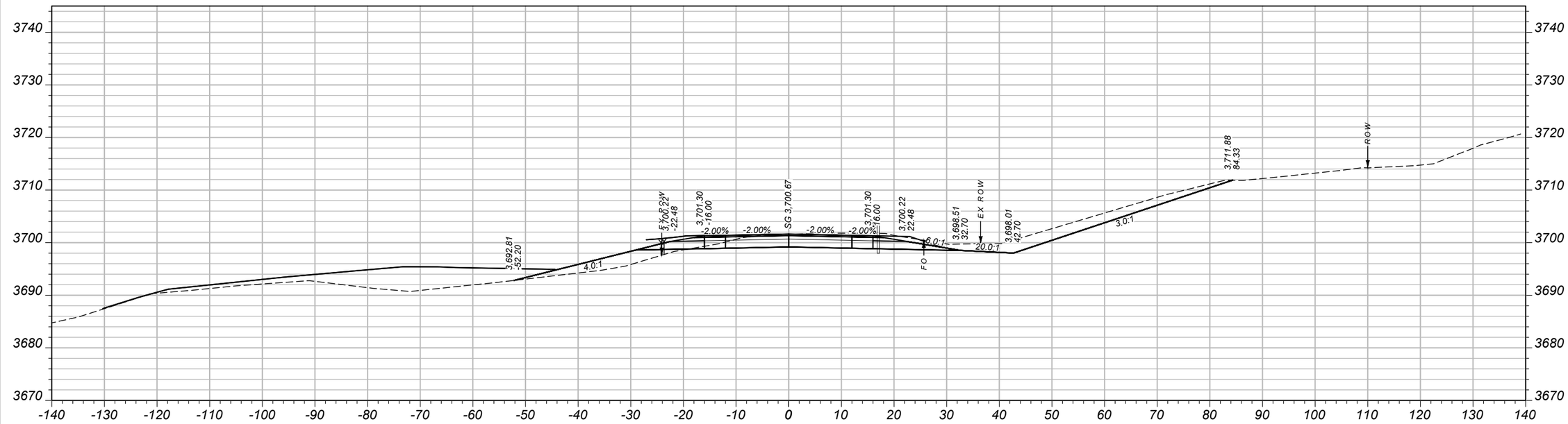
CROSS SECTIONS

3/11/2025 4:46 PM

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 148 CY STA 38+75.00 FV: 62 CY



CV: 61 CY STA 38+50.00 FV: 11 CY

SHEET NO. 48

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024
B.HENDERSON	
REVIEWED BY	02/2024
J. BROTZLER	
CHECKED BY	11/2024
J. CERECK	

9116000RDXSF200.DWG

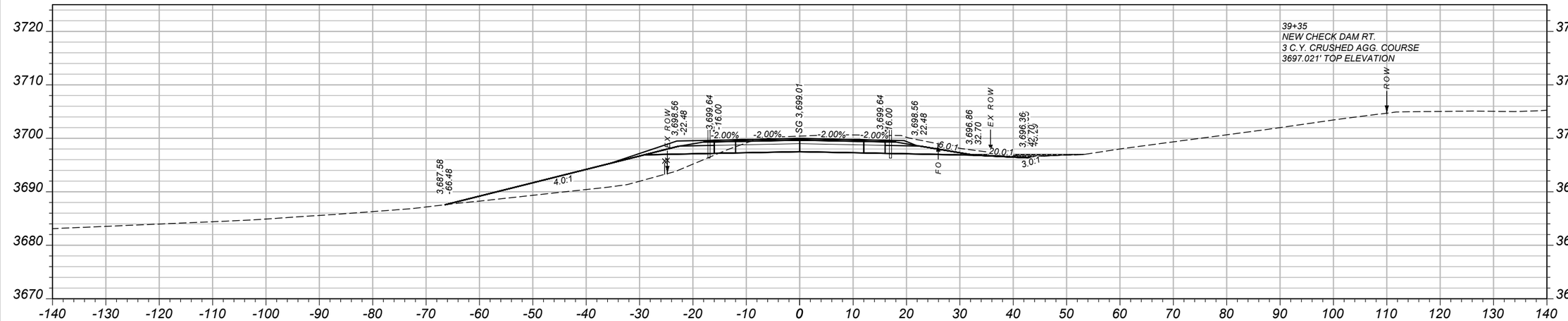
MONTANA Department of Transportation

CROSS SECTIONS

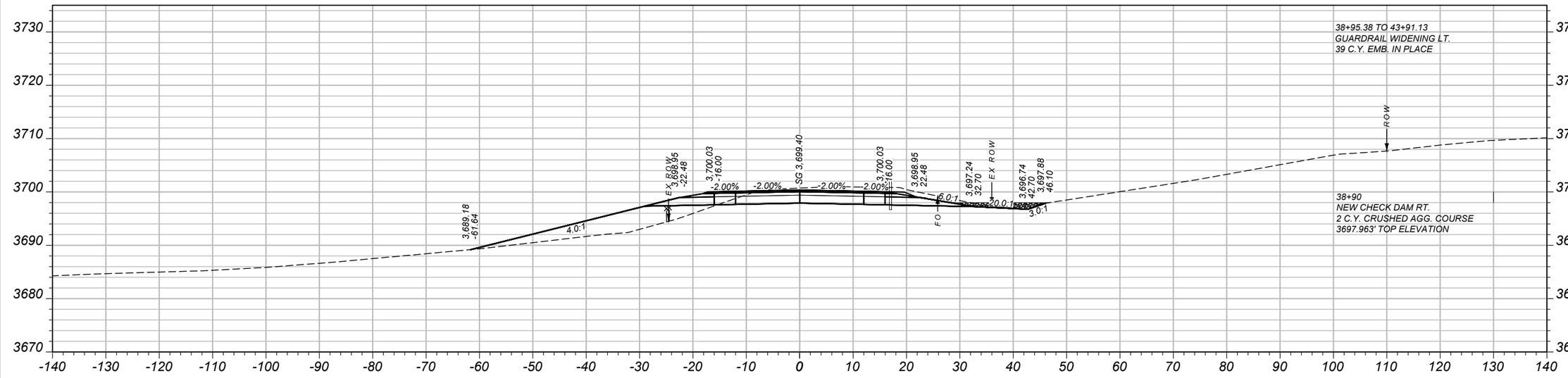
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AWARD COPY



CV: 116 CY STA 39+25.00 FV: 110 CY



CV: 117 CY STA 39+00.00 FV: 88 CY

SHEET NO. 49

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

9116000RDXSF200.DWG

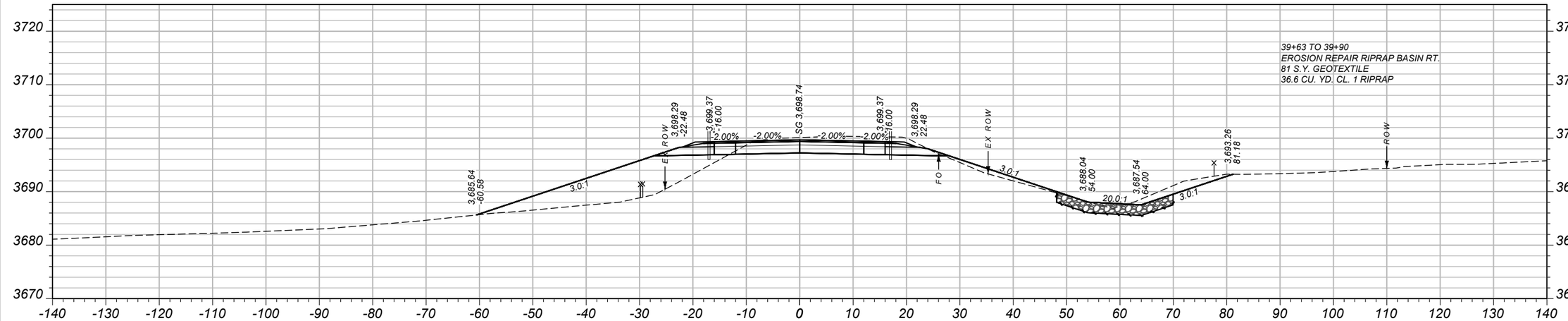
MONTANA Department of Transportation

CROSS SECTIONS

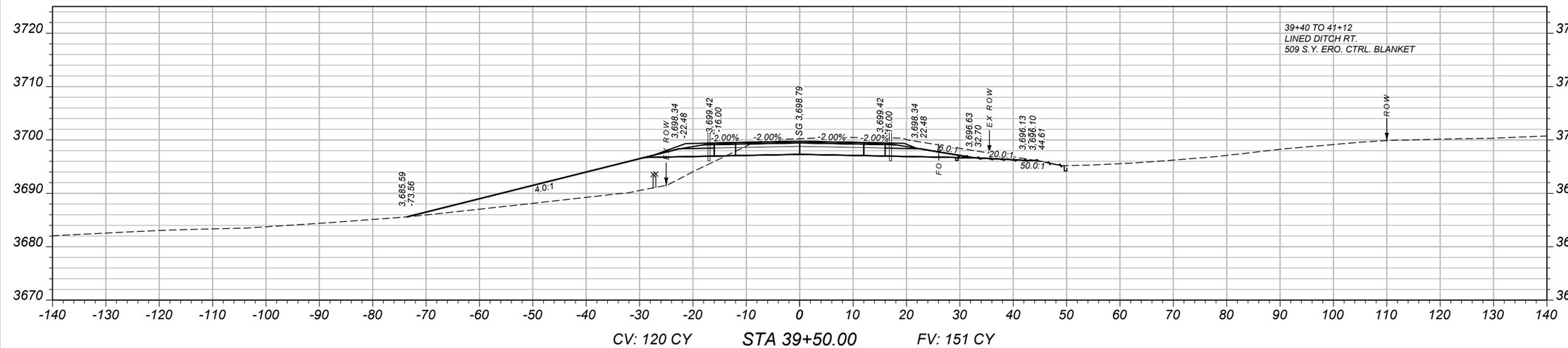
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY



CV: 120 CY STA 39+75.00 FV: 182 CY



CV: 120 CY STA 39+50.00 FV: 151 CY

SHEET NO.
50

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	9116000RDXSF200.DWG

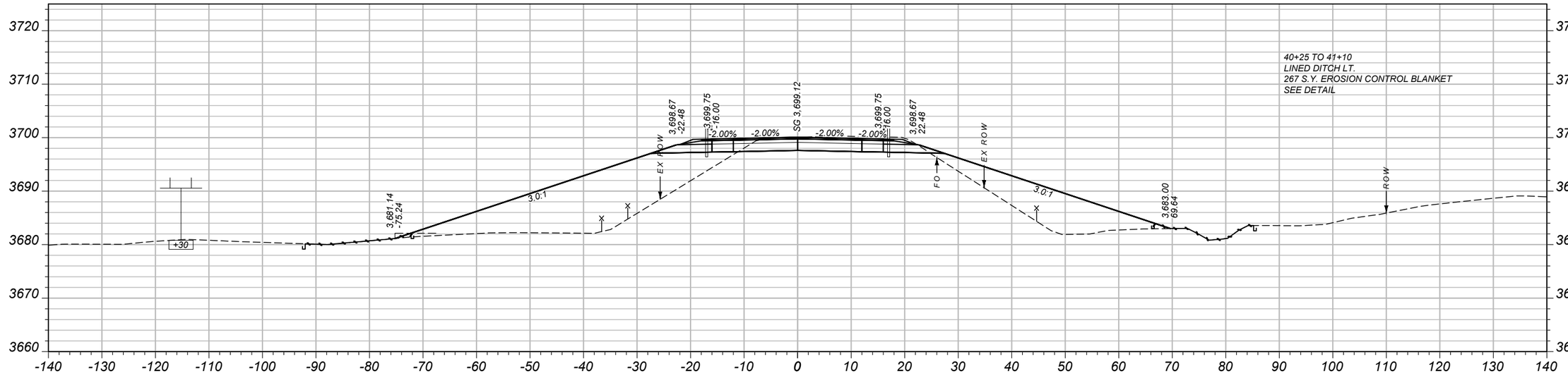
MONTANA
Department of Transportation

CROSS SECTIONS

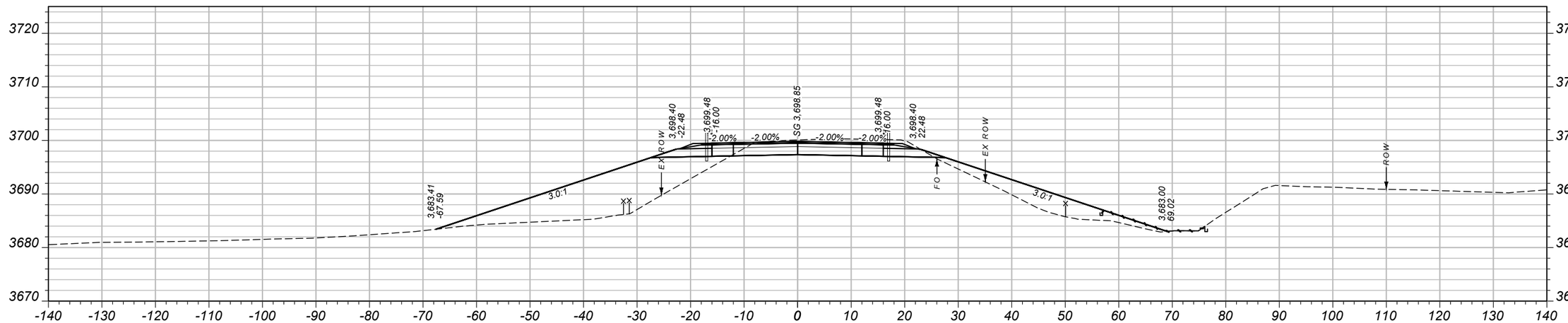
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY



CV: 83 CY STA 40+25.00 FV: 436 CY



CV: 103 CY STA 40+00.00 FV: 258 CY

SHEET NO.
51

CROSS SECTIONS

PROJECT NAME: **SF 159 SE COLUMBUS SHLDR WID**
COUNTY: **STILLWATER COUNTY**
PROJECT ID: **HSIP 421-1(13)5**
UPN: **9116000**

DESIGNED BY	DATE
B HENDERSON	02/2024
REVIEWED BY	DATE
J. BROTZLER	02/2024
CHECKED BY	DATE
J. CERECK	11/2024

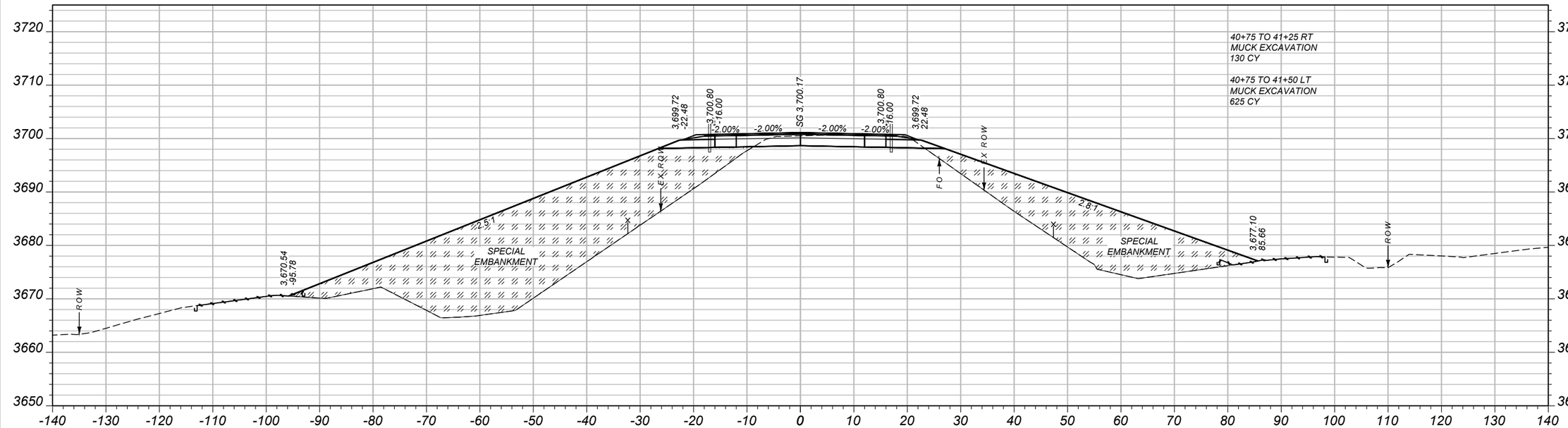
9116000RDXSF200.DWG

MONTANA
Department of Transportation

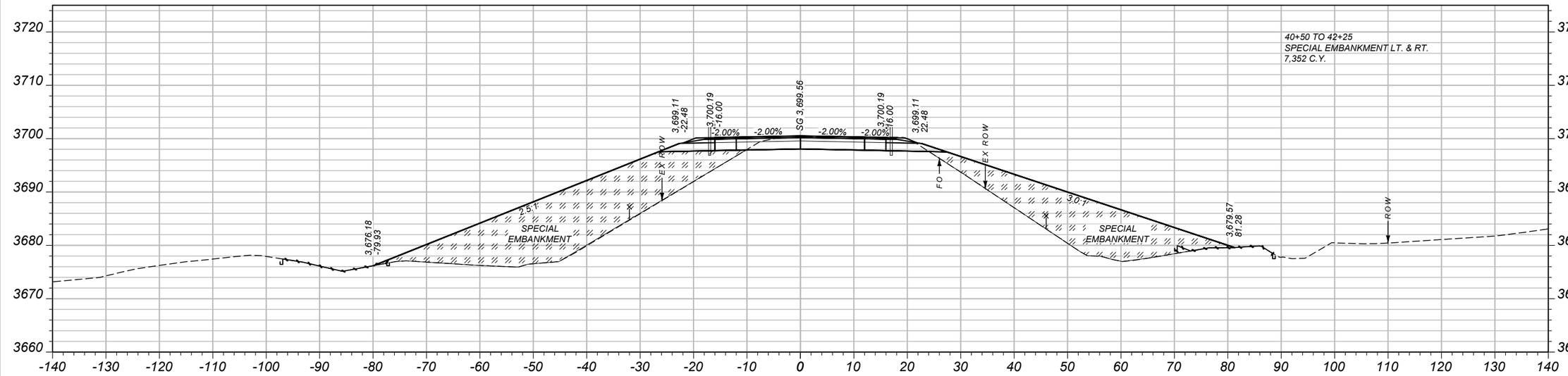
CROSS SECTIONS

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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 0 CY STA 40+75.00 FV: 0 CY



CV: 72 CY STA 40+50.00 FV: 667 CY

SHEET NO.
52

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
B.HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

9116000RDXSF200.DWG

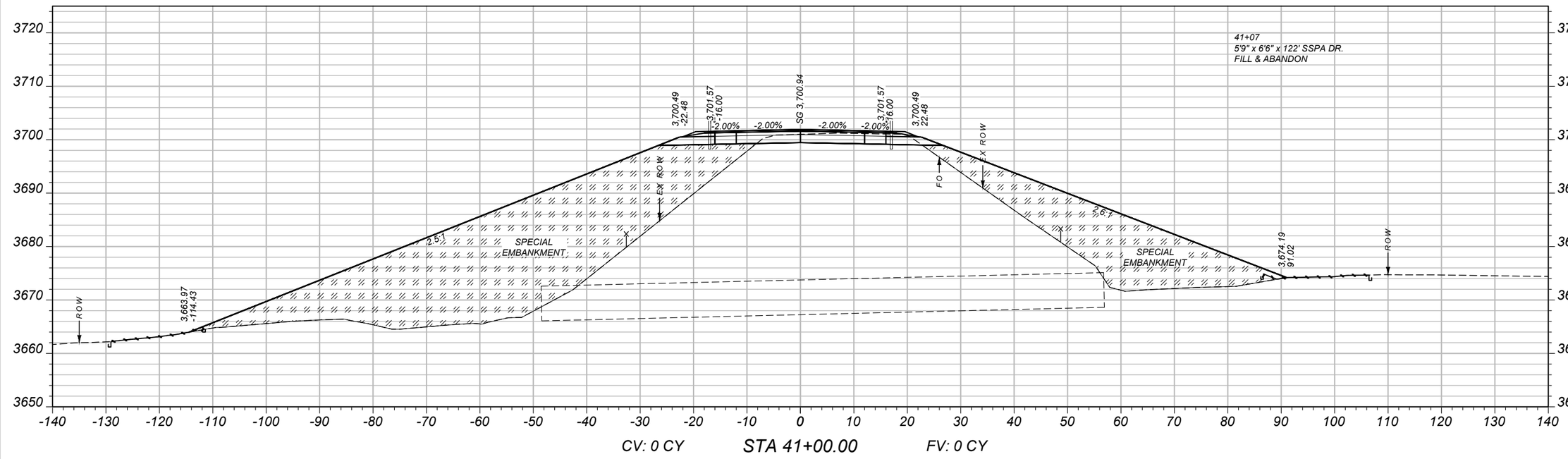
MONTANA
Department of Transportation

CROSS SECTIONS

3/11/2025 4:46 PM

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AWARD COPY



SHEET NO.
53

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B.HENDERSON		J. BROTZLER		J. CERECK	

9116000RDXSF200.DWG

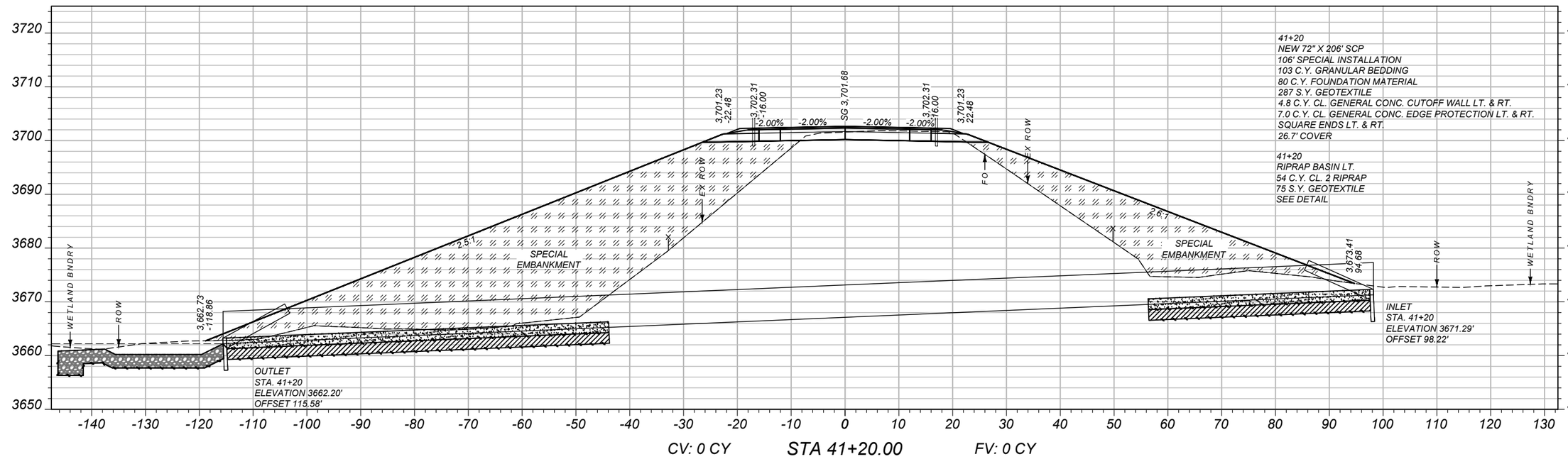
MONTANA
Department of Transportation

CROSS SECTIONS

3/11/2025 4:46 PM

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AWARD COPY



SHEET NO.
54

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	DATE
B HENDERSON	02/2024
REVIEWED BY	DATE
J. BROTZLER	02/2024
CHECKED BY	DATE
J. CERECK	11/2024

9116000RDXSF200.DWG

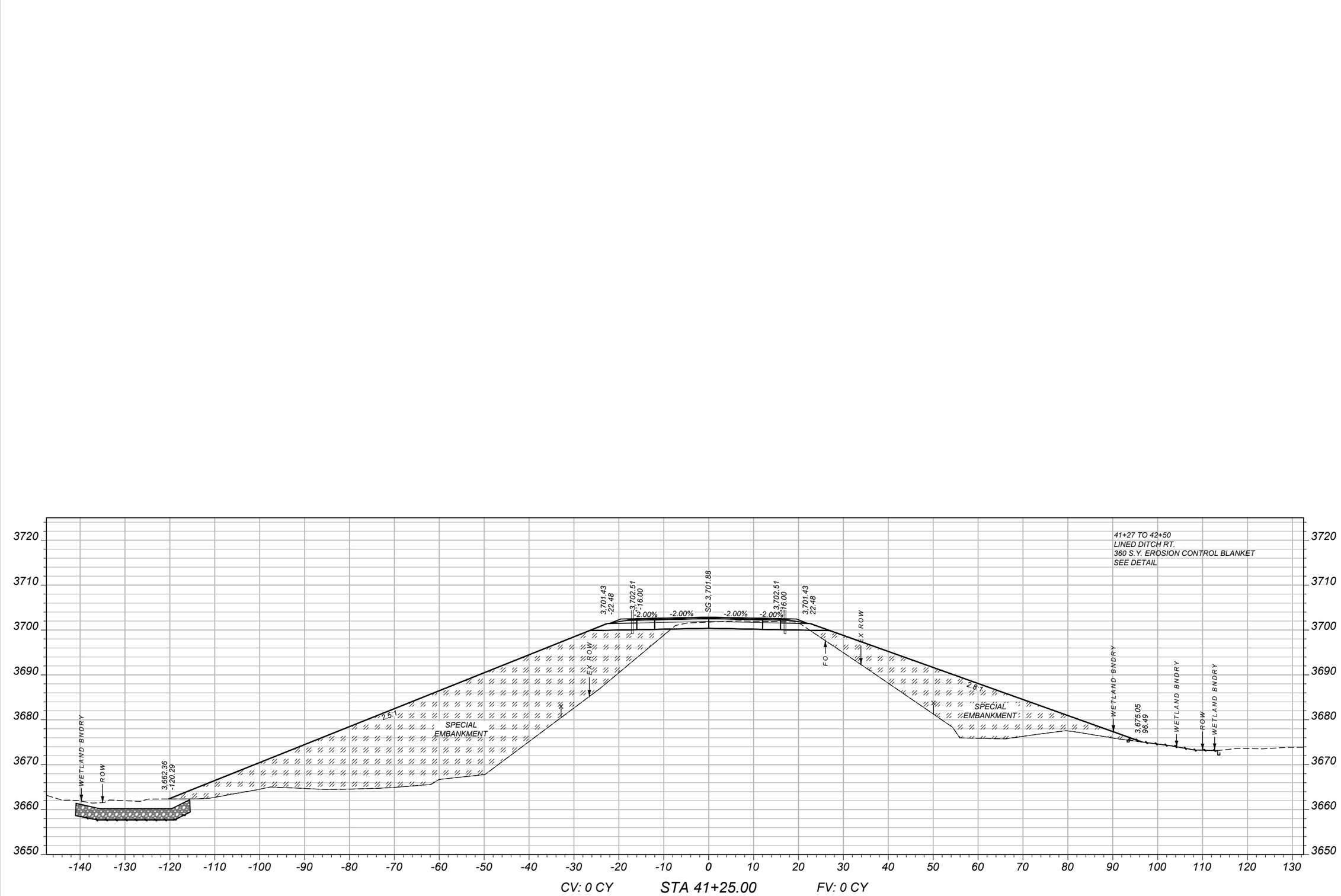
MONTANA
Department of Transportation

CROSS SECTIONS

3/11/2025 4:46 PM

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AWARD COPY



SHEET NO.
55

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

MONTANA
Department of Transportation

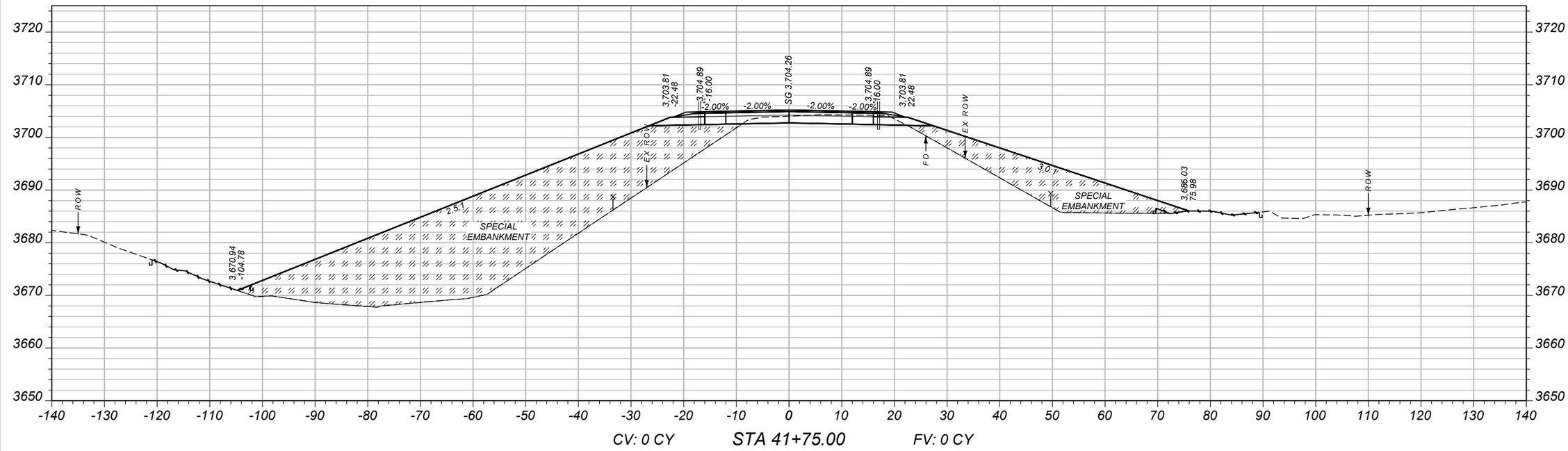
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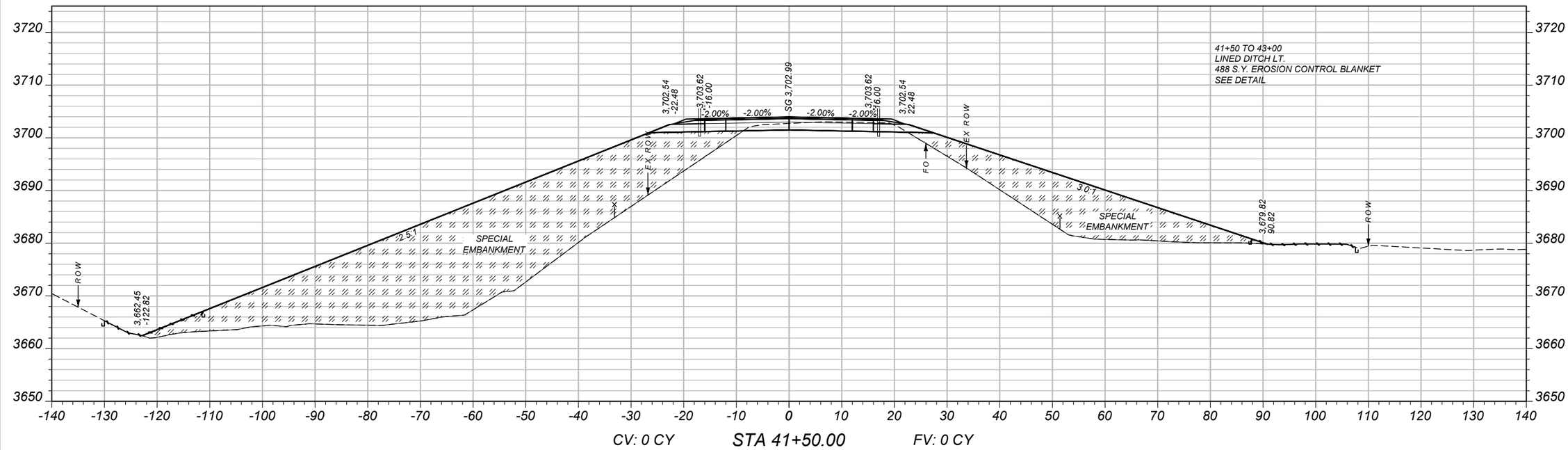
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9116000RDXSF200.DWG

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY





SHEET NO.
56

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

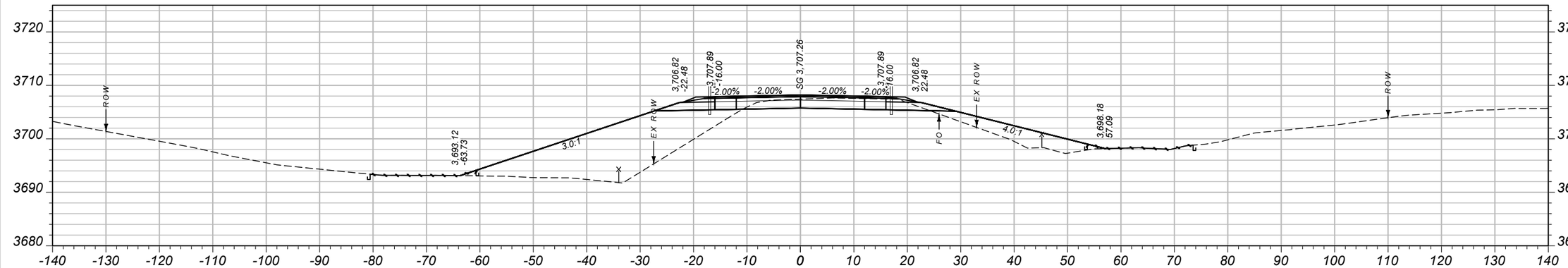
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MONTANA
Department of Transportation

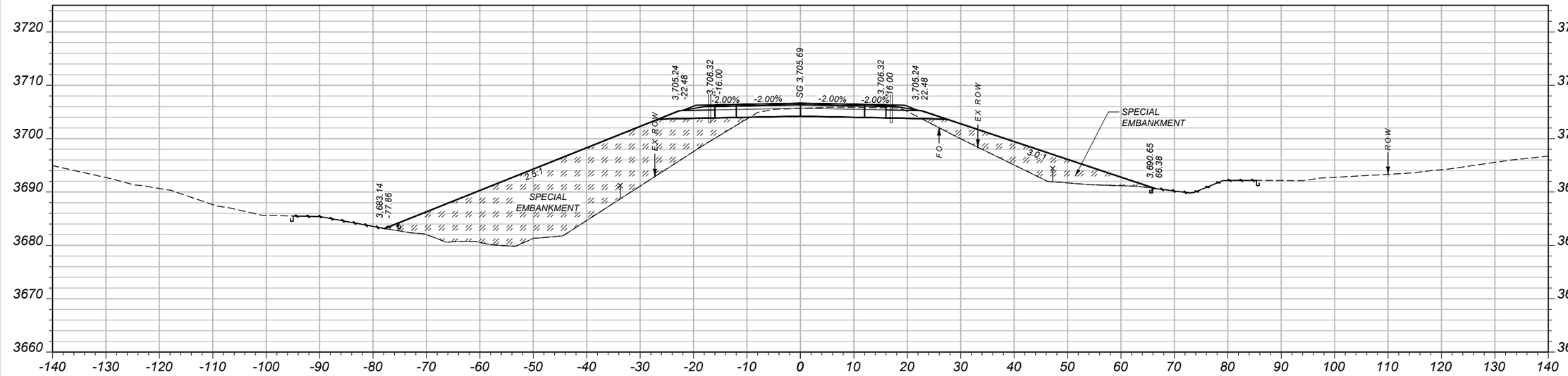
CROSS SECTIONS

3/11/2025 4:46 PM

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 48 CY STA 42+25.00 FV: 514 CY



CV: 0 CY STA 42+00.00 FV: 0 CY

SHEET NO.
57

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	DATE
B HENDERSON	02/2024
REVIEWED BY	DATE
J. BROTZLER	02/2024
CHECKED BY	DATE
J. CERECK	11/2024

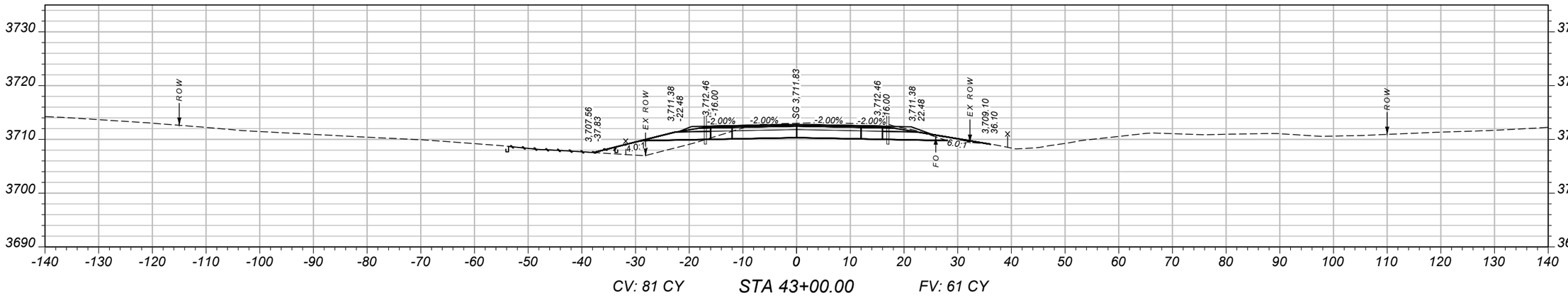
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MONTANA
Department of Transportation

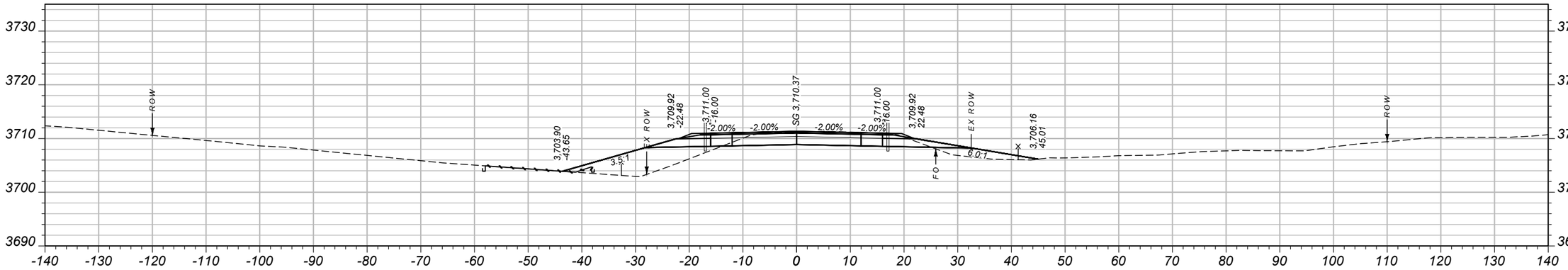
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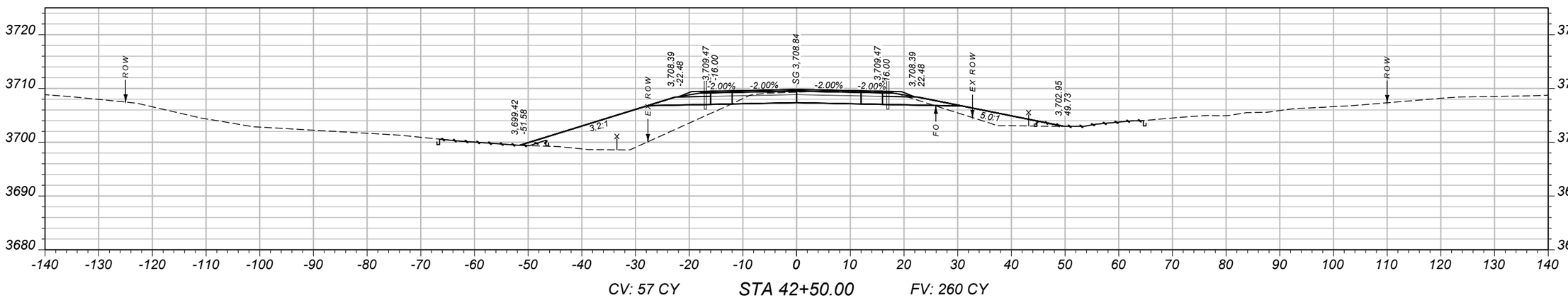
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 81 CY STA 43+00.00 FV: 61 CY



CV: 67 CY STA 42+75.00 FV: 131 CY



CV: 57 CY STA 42+50.00 FV: 260 CY

SHEET NO.
58

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

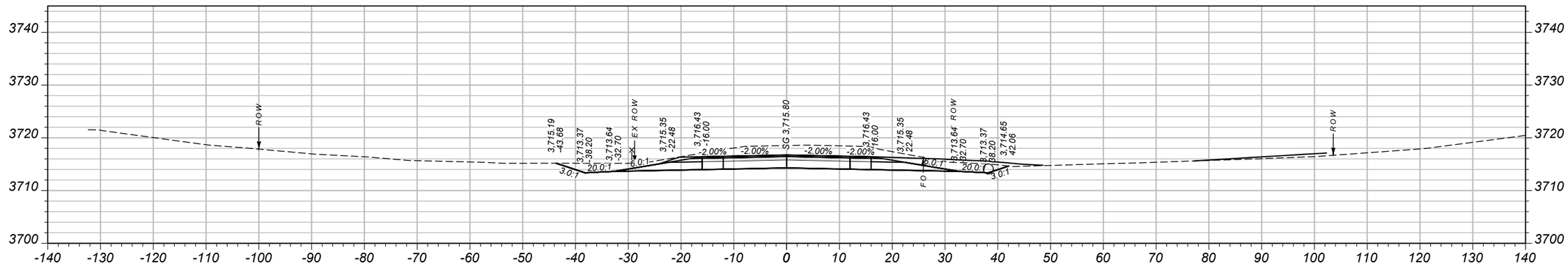
9116000RDXSF200.DWG

MONTANA
Department of Transportation

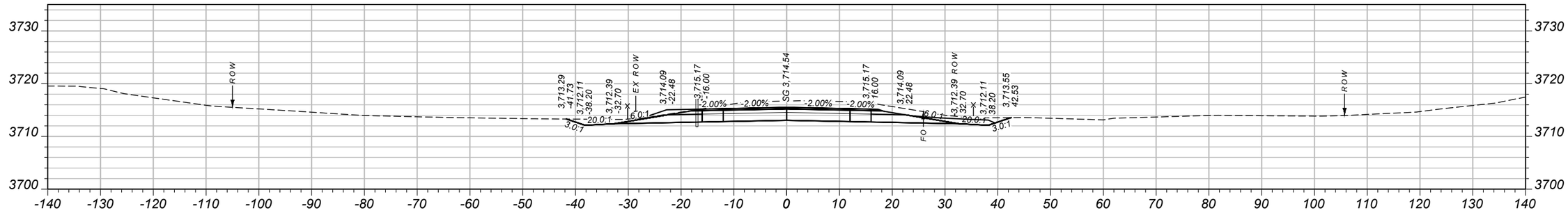
CROSS SECTIONS

3/11/2025 4:46 PM

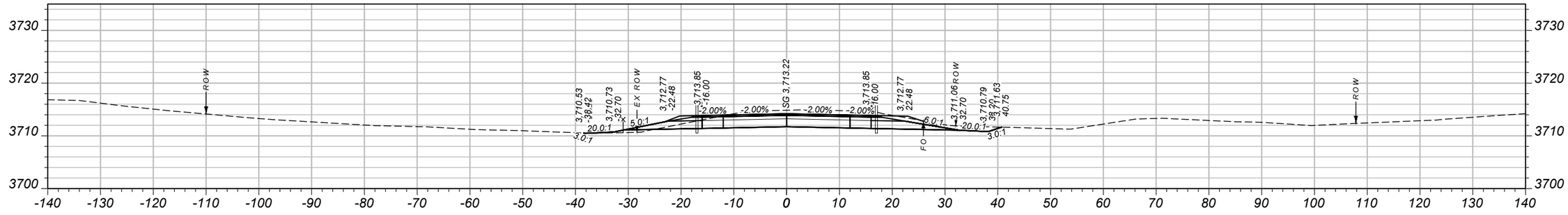
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 202 CY STA 43+75.00 FV: 0 CY



CV: 156 CY STA 43+50.00 FV: 2 CY



CV: 110 CY STA 43+25.00 FV: 16 CY

SHEET NO.
59

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

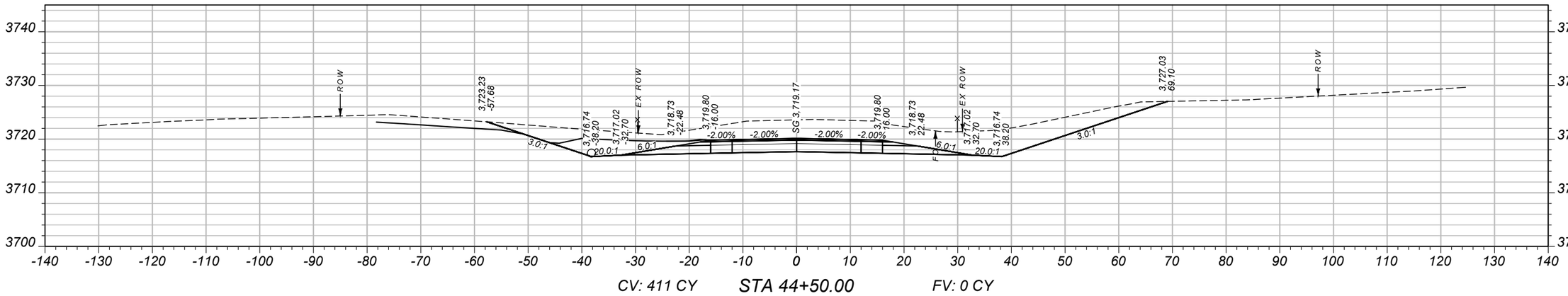
9116000RDXSF200.DWG

MONTANA
Department of Transportation

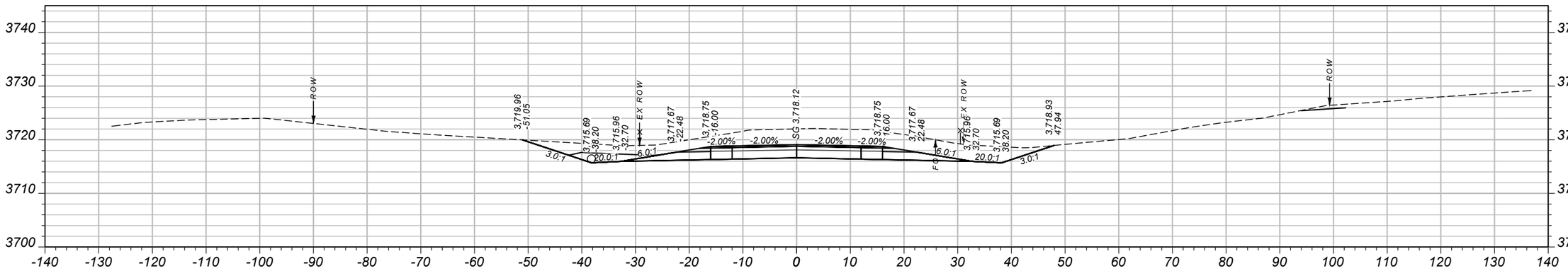
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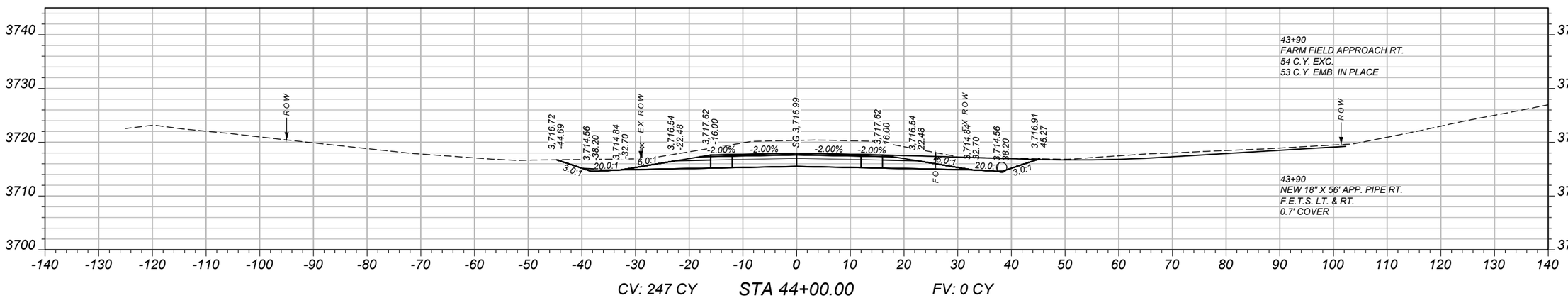
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CV: 411 CY STA 44+50.00 FV: 0 CY



CV: 304 CY STA 44+25.00 FV: 0 CY



CV: 247 CY STA 44+00.00 FV: 0 CY

SHEET NO.
60

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

MONTANA
Department of Transportation

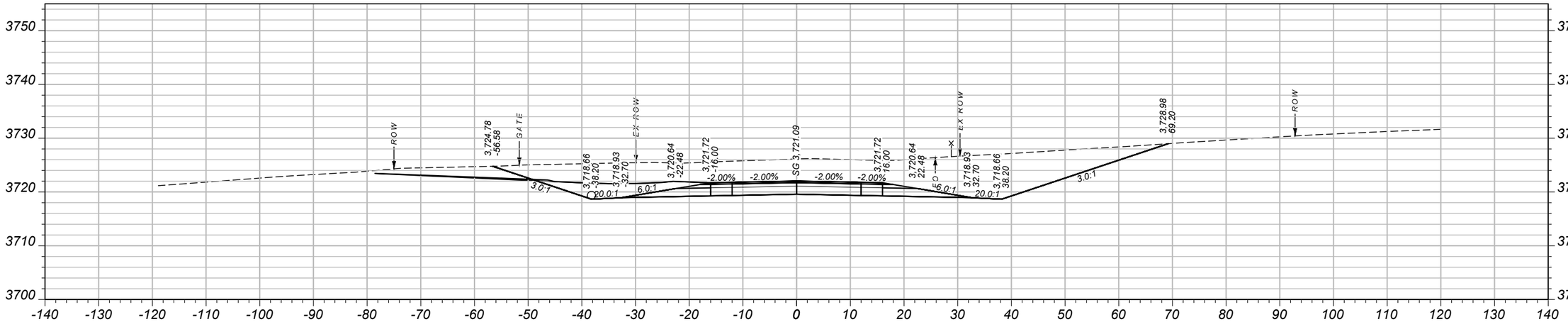
CROSS SECTIONS

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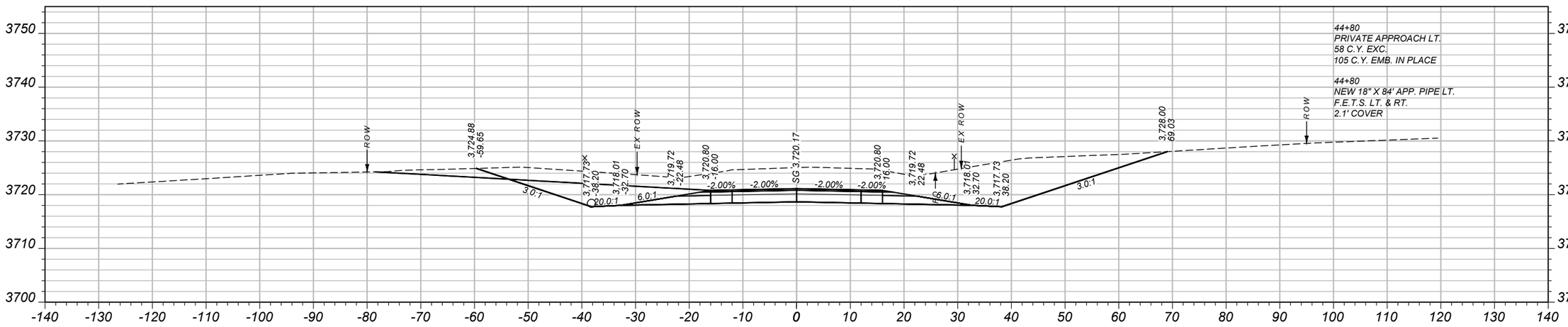
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AWARD COPY



CV: 312 CY STA 45+00.00 FV: 0 CY



CV: 556 CY STA 44+75.00 FV: 0 CY

SHEET NO.
61

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	9116000RDXSF200.DWG

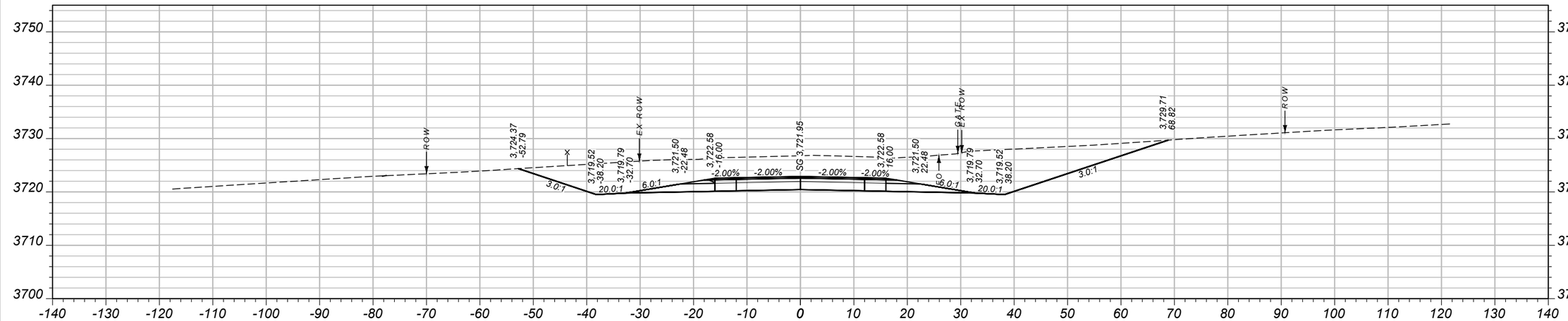
MONTANA
Department of Transportation

CROSS SECTIONS

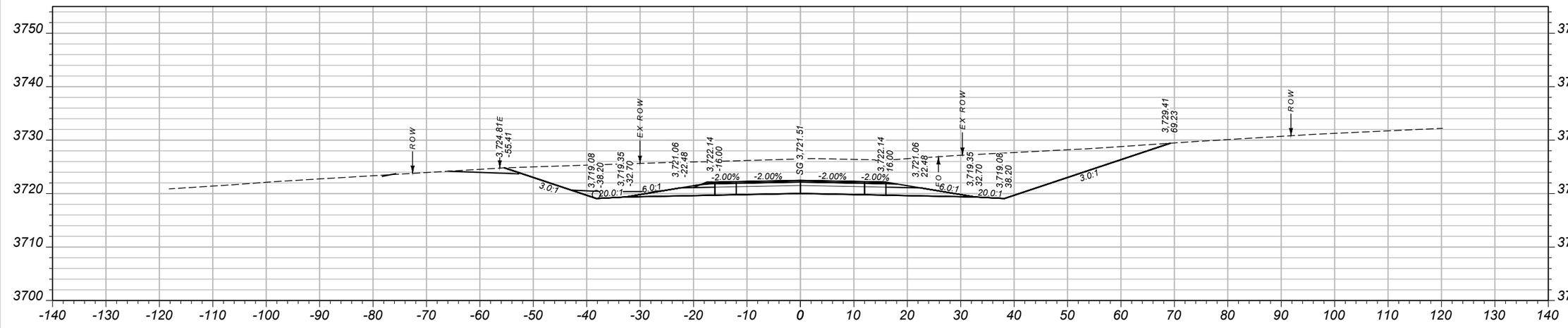
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AWARD COPY



CV: 328 CY STA 45+25.00 FV: 0 CY



STA 45+12.00

SHEET NO.
62

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. CERECK	
REVIEWED BY	02/2024		
J. BROTZLER			

MONTANA
Department of Transportation

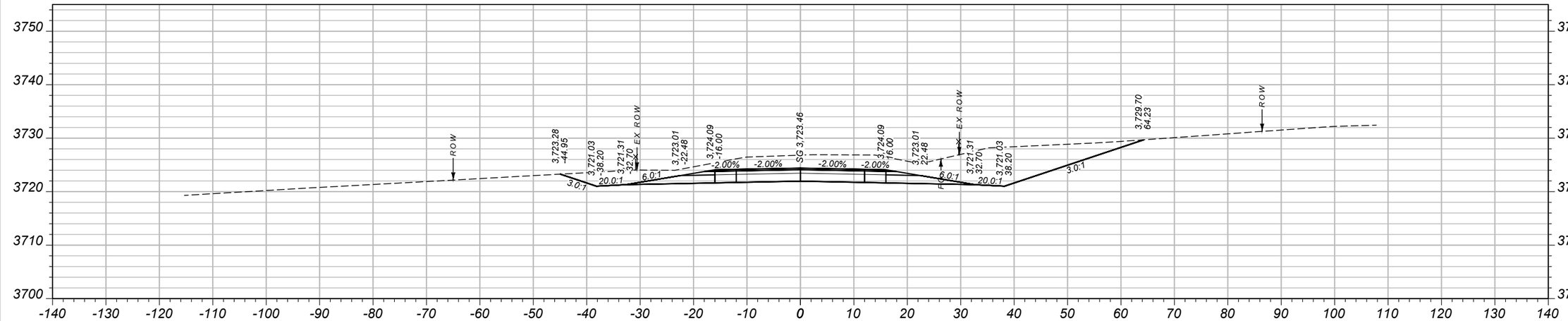
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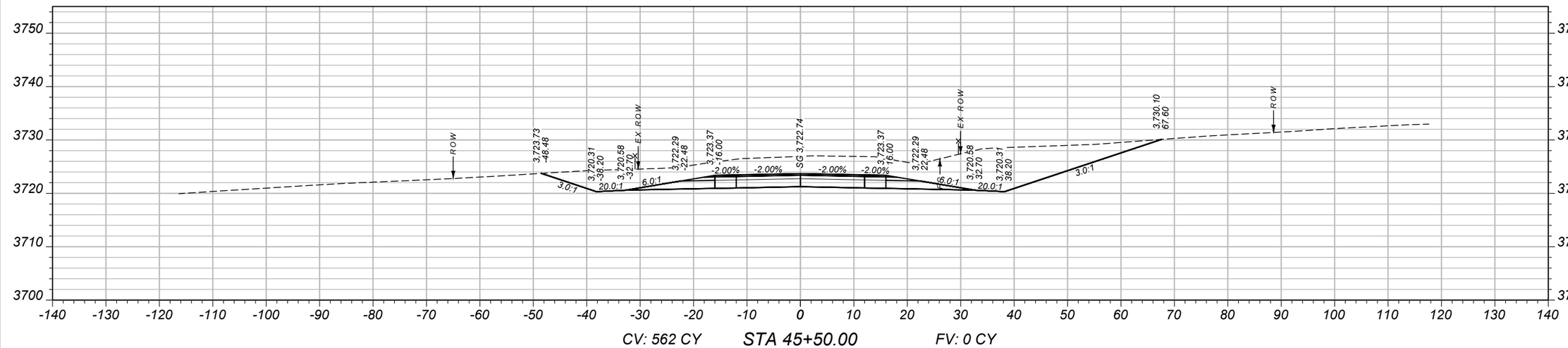
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SHEET NO.
63

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	B HENDERSON	
REVIEWED BY	02/2024	J. BROTZLER	
CHECKED BY	11/2024	J. CERECK	

9116000RDXSF200.DWG

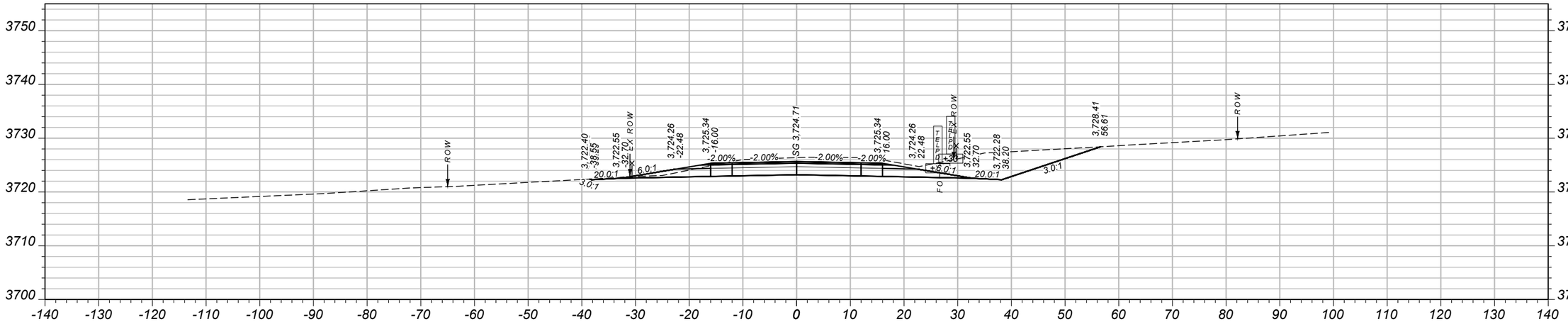
MONTANA
Department of Transportation

CROSS SECTIONS

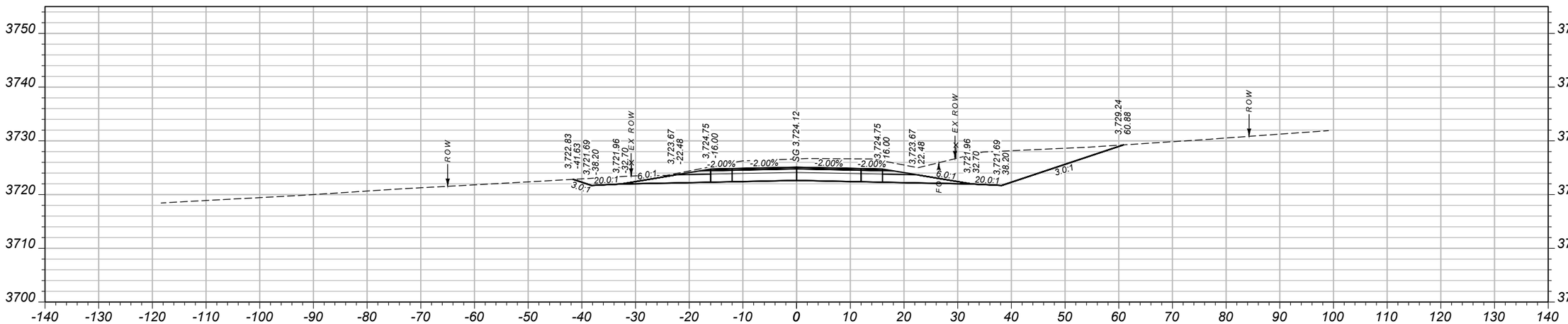
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AWARD COPY



CV: 263 CY STA 46+25.00 FV: 0 CY



CV: 357 CY STA 46+00.00 FV: 0 CY

SHEET NO.
64

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

9116000RDXSF200.DWG

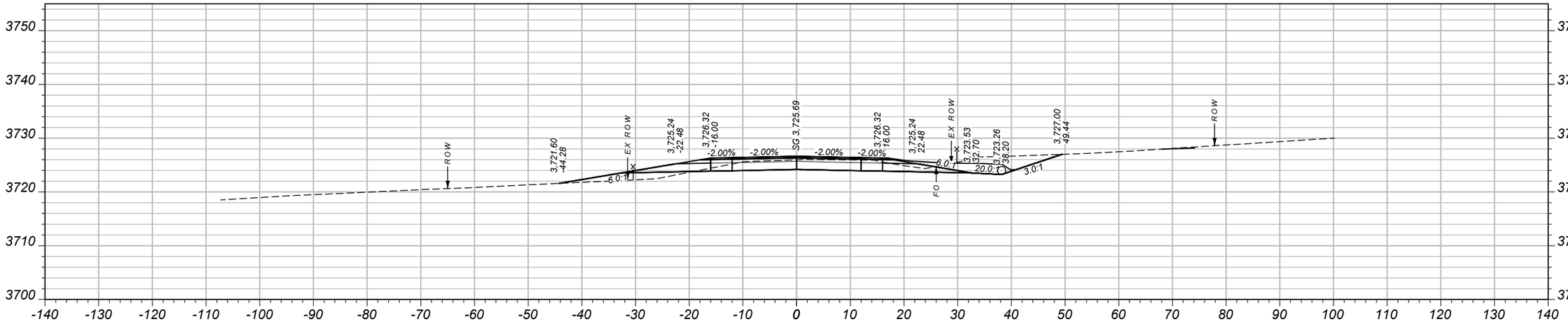
MONTANA
Department of Transportation

CROSS SECTIONS

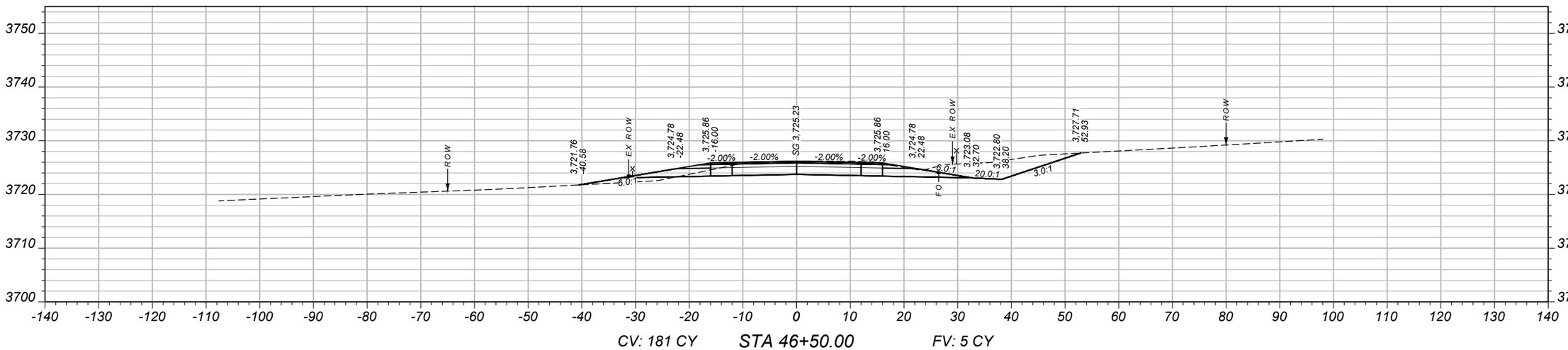
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY



CV: 125 CY STA 46+75.00 FV: 14 CY



CV: 181 CY STA 46+50.00 FV: 5 CY

SHEET NO.
65

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	B HENDERSON	
REVIEWED BY	02/2024	J. BROTZLER	
CHECKED BY	11/2024	J. CERECK	

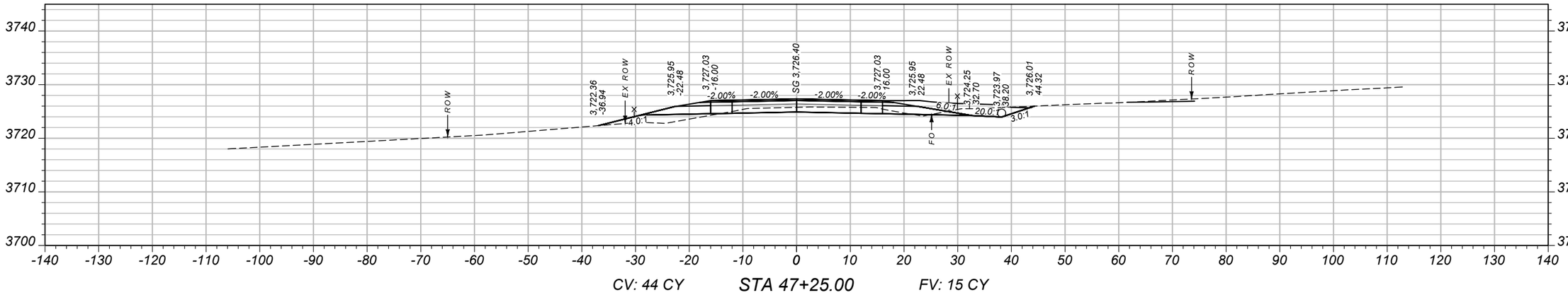
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MONTANA
Department of Transportation

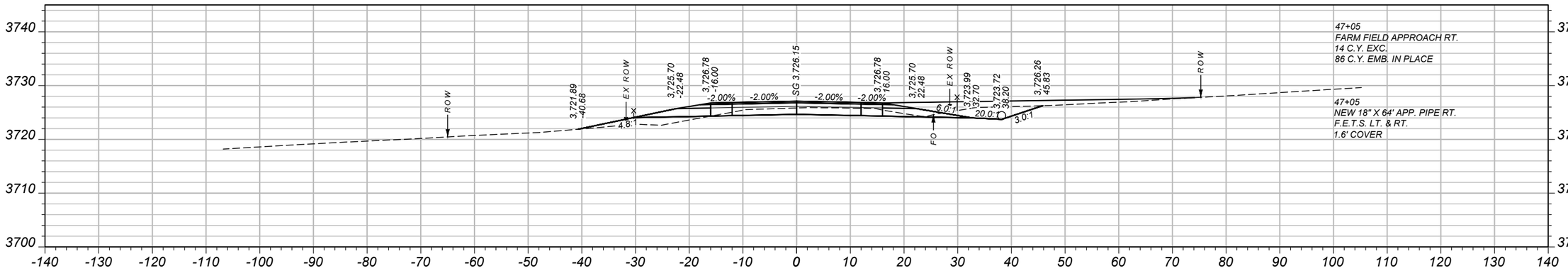
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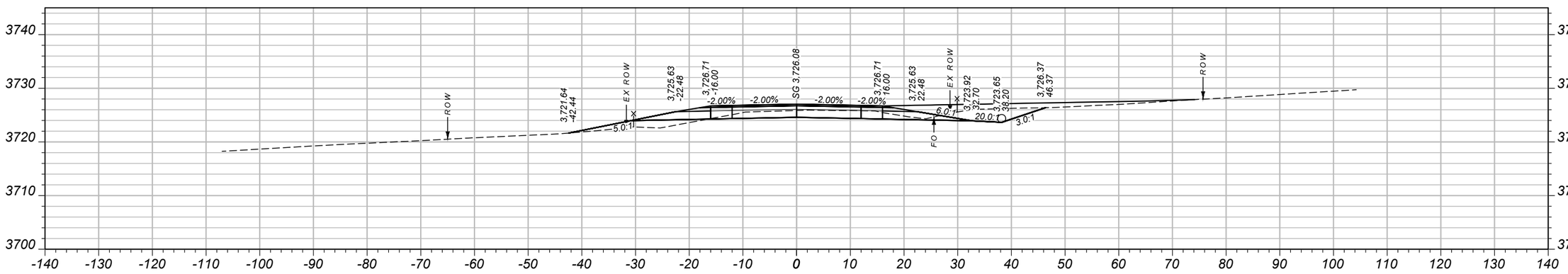
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CV: 44 CY STA 47+25.00 FV: 15 CY



CV: 14 CY STA 47+05.00 FV: 4 CY



CV: 89 CY STA 47+00.00 FV: 20 CY

SHEET NO.
66

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024
B HENDERSON	
REVIEWED BY	02/2024
J. BROTZLER	
CHECKED BY	11/2024
J. CERECK	

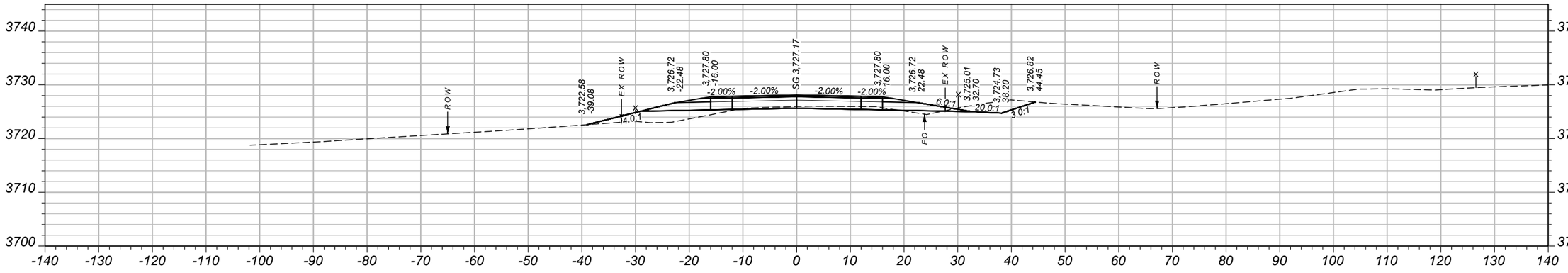
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MONTANA
Department of Transportation

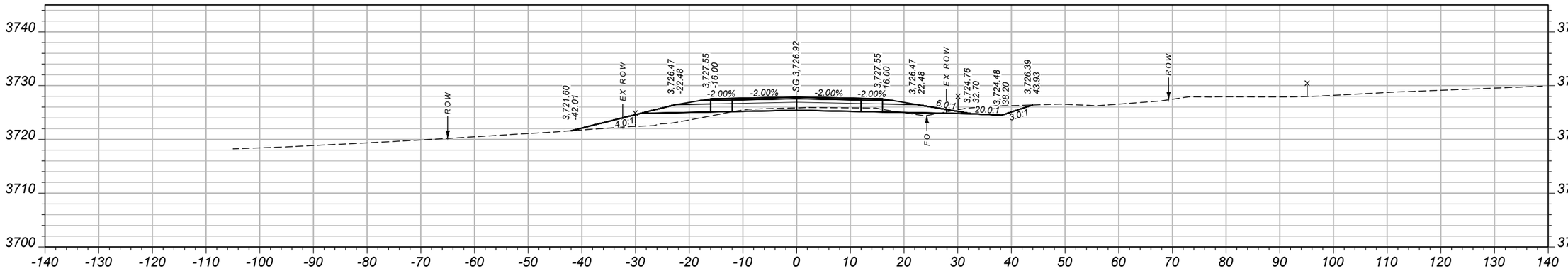
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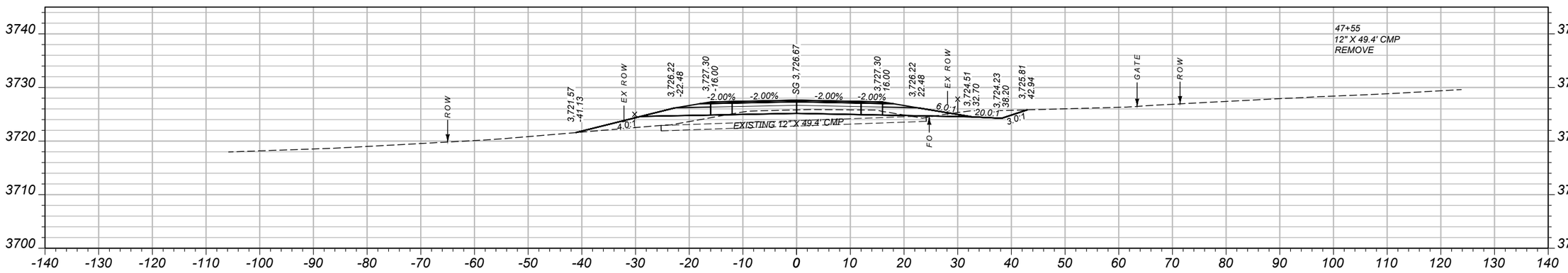
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CV: 29 CY STA 48+00.00 FV: 36 CY



CV: 31 CY STA 47+75.00 FV: 34 CY



CV: 39 CY STA 47+50.00 FV: 25 CY

SHEET NO.
67

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	B HENDERSON	
REVIEWED BY	02/2024	J. BROTZLER	
CHECKED BY	11/2024	J. CERECK	

9116000RDXSF200.DWG

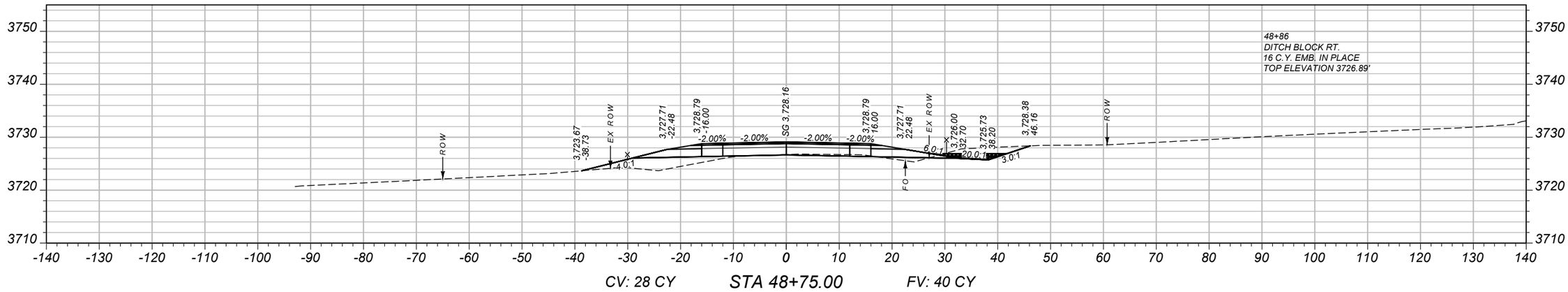
MONTANA
Department of Transportation

CROSS SECTIONS

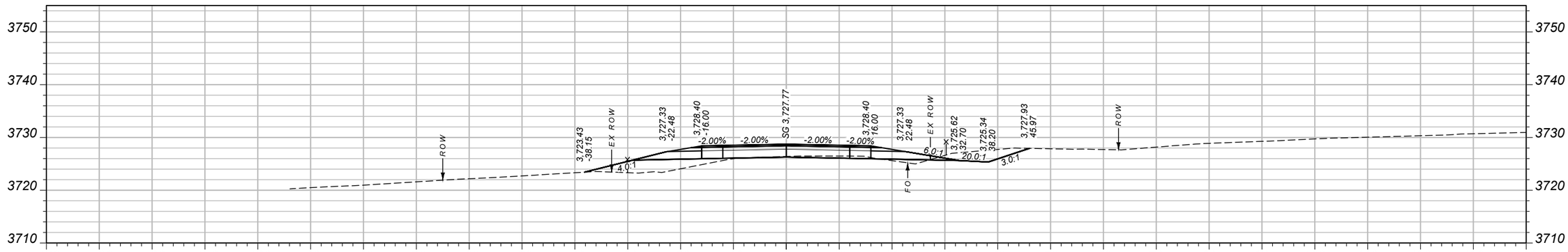
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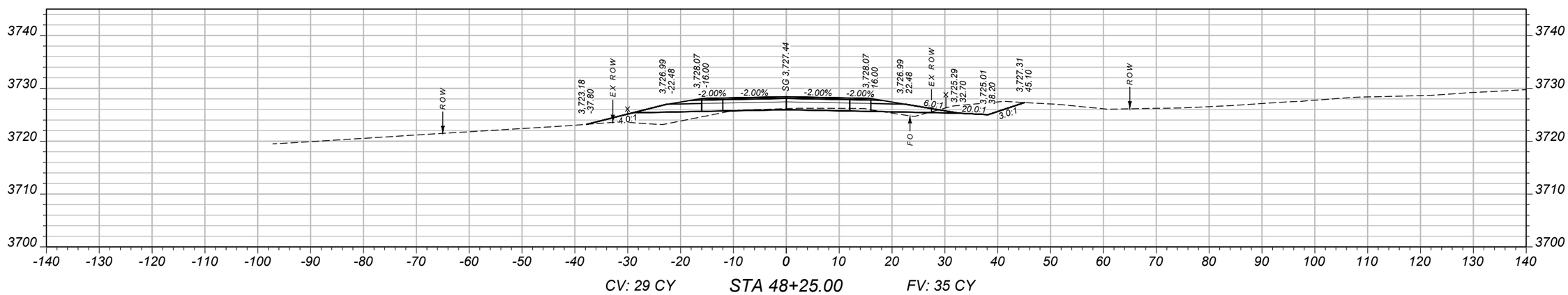
AWARD COPY



CV: 28 CY STA 48+75.00 FV: 40 CY



CV: 29 CY STA 48+50.00 FV: 38 CY



CV: 29 CY STA 48+25.00 FV: 35 CY

SHEET NO. 68

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

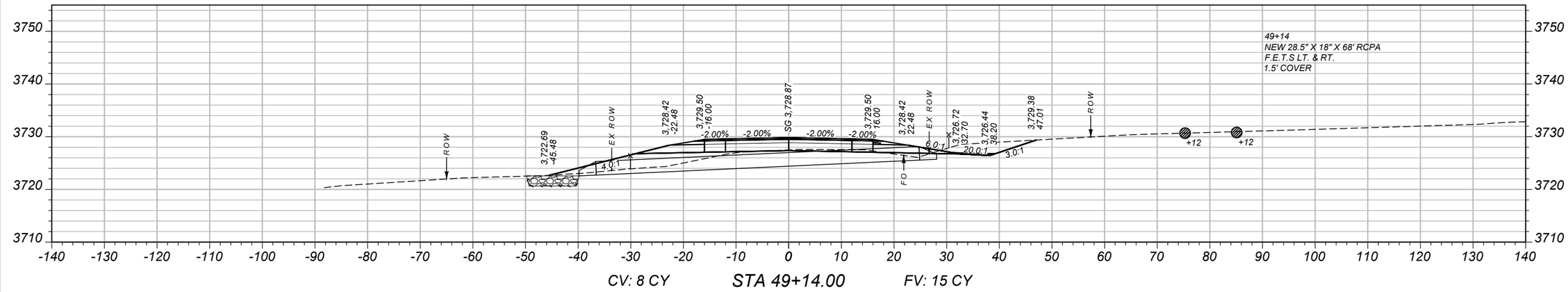
MONTANA Department of Transportation

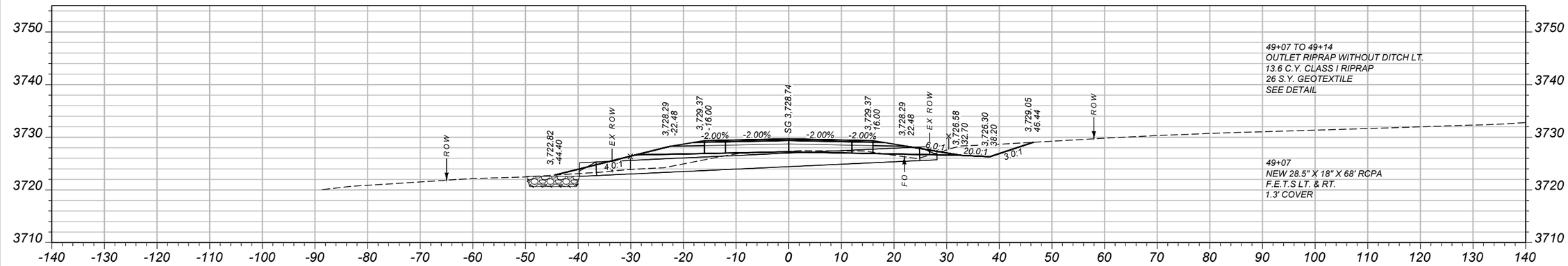
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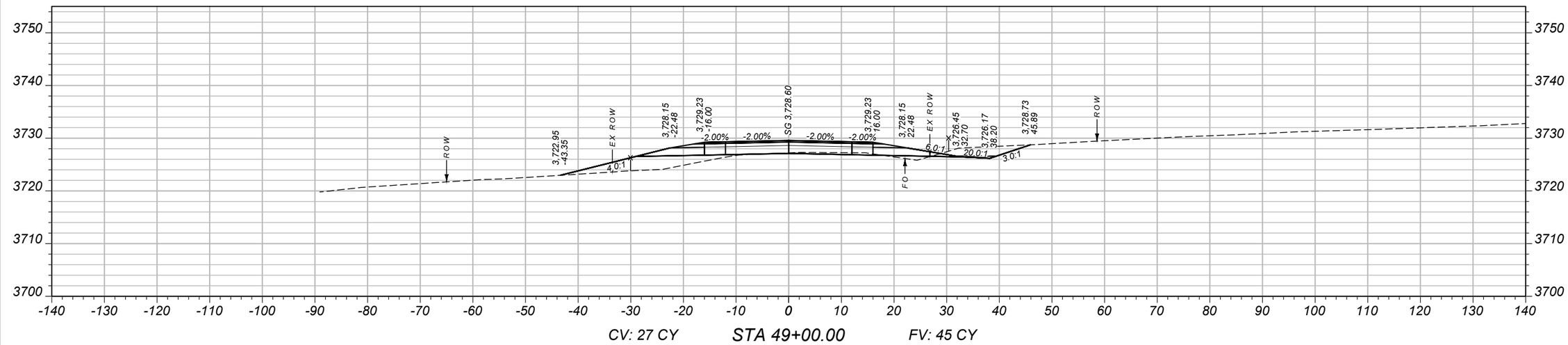
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SHEET NO.
69

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

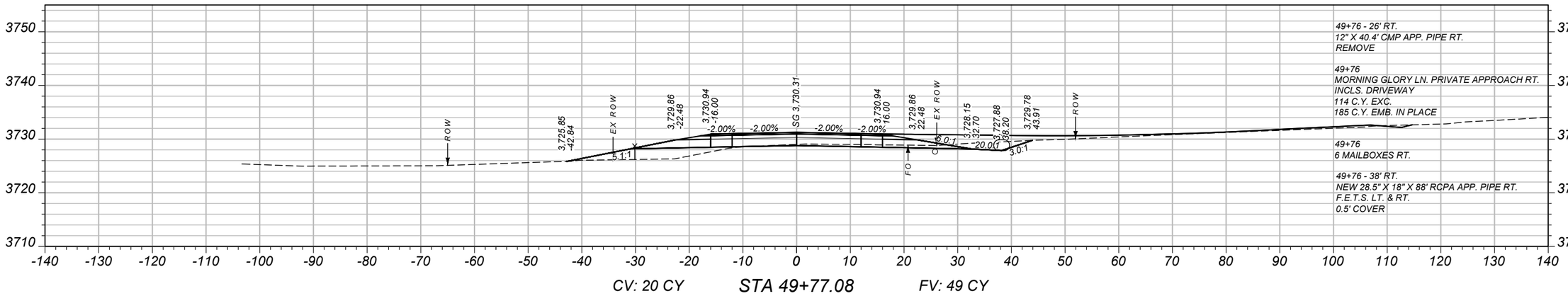
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MONTANA
Department of Transportation

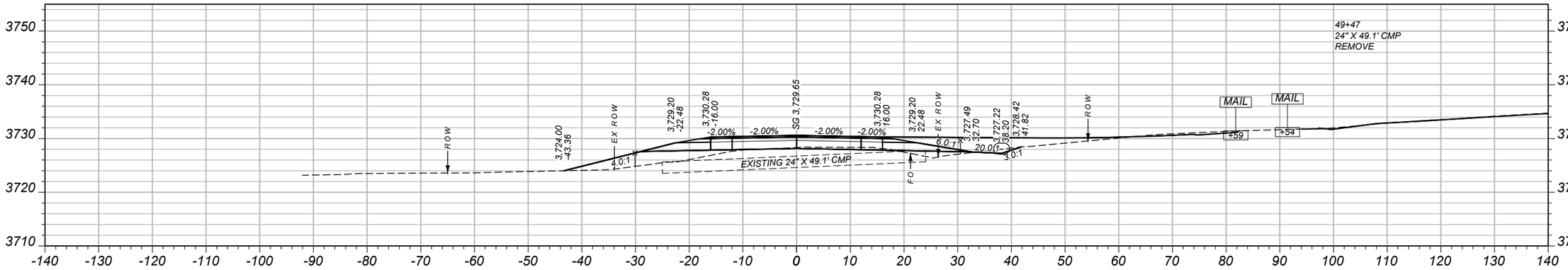
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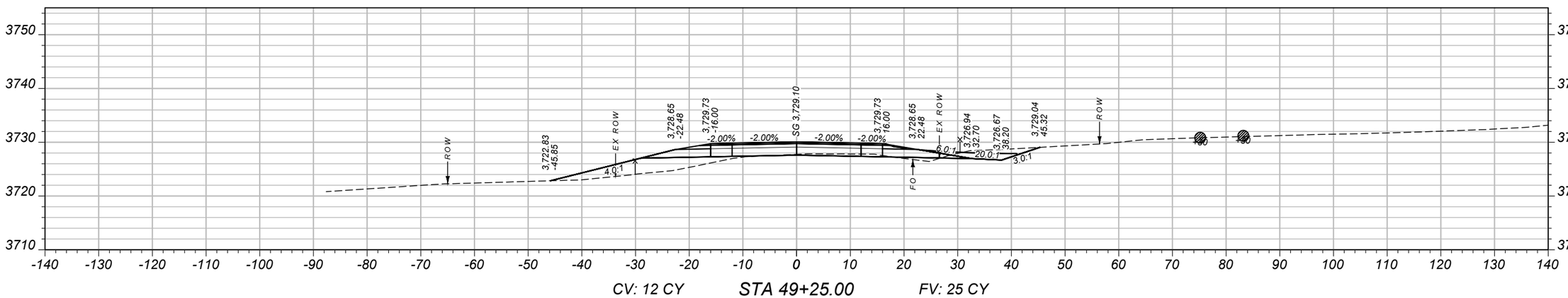
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CV: 20 CY STA 49+77.08 FV: 49 CY



CV: 17 CY STA 49+50.00 FV: 56 CY



CV: 12 CY STA 49+25.00 FV: 25 CY

SHEET NO.
70

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY		02/2024
B HENDERSON		
REVIEWED BY		02/2024
J. BROTZLER		
CHECKED BY		11/2024
J. CERECK		

MONTANA
Department of Transportation

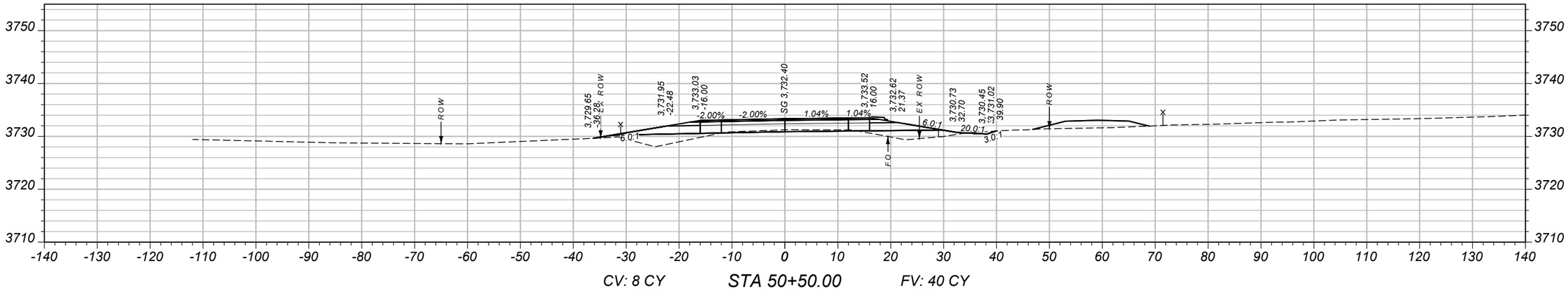
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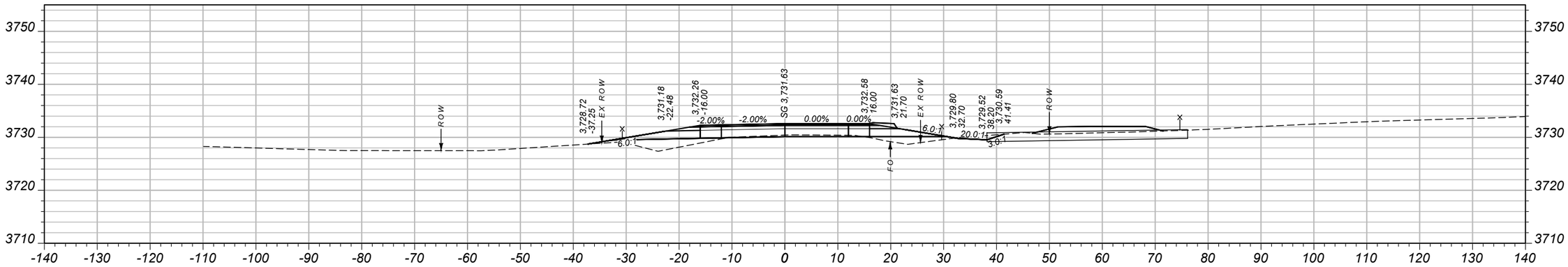
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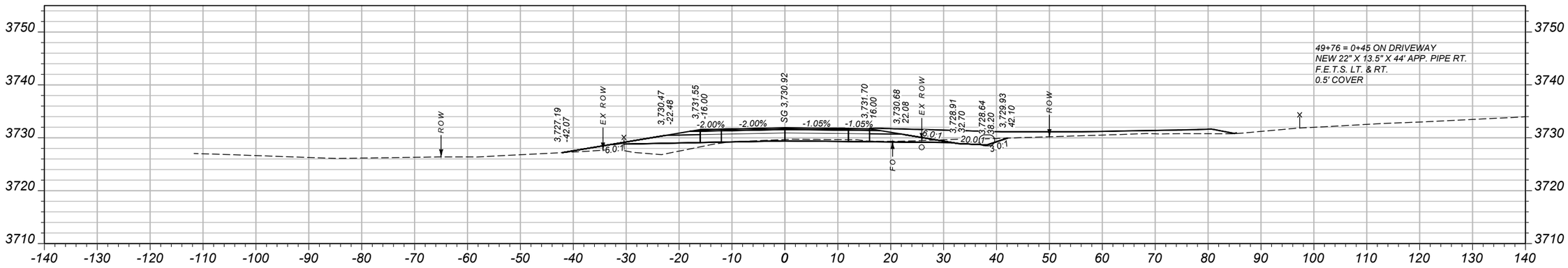
AWARD COPY



CV: 8 CY STA 50+50.00 FV: 40 CY



CV: 14 CY STA 50+25.08 FV: 34 CY



CV: 21 CY STA 50+00.00 FV: 31 CY

SHEET NO.
71

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

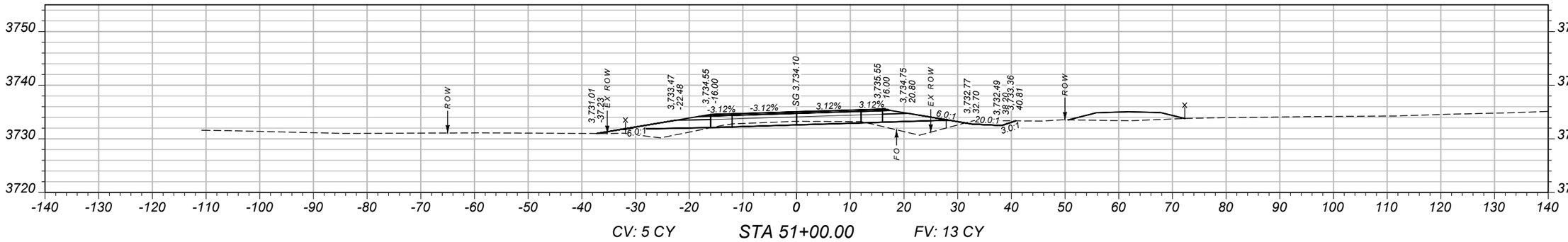
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MONTANA
Department of Transportation

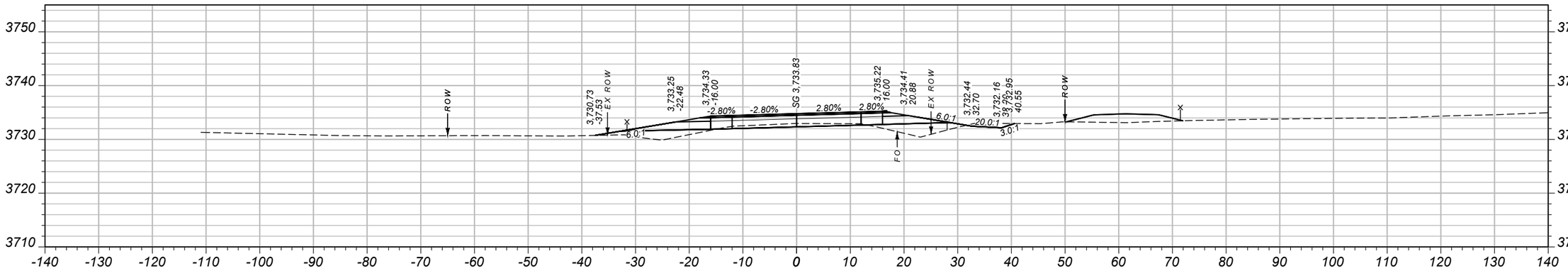
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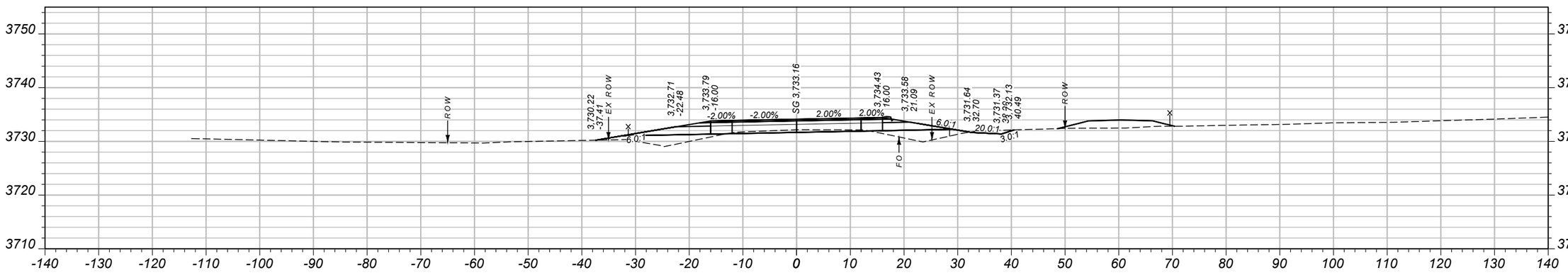
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CV: 5 CY STA 51+00.00 FV: 13 CY



CV: 11 CY STA 50+92.28 FV: 33 CY



CV: 9 CY STA 50+73.08 FV: 40 CY

SHEET NO.
72

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

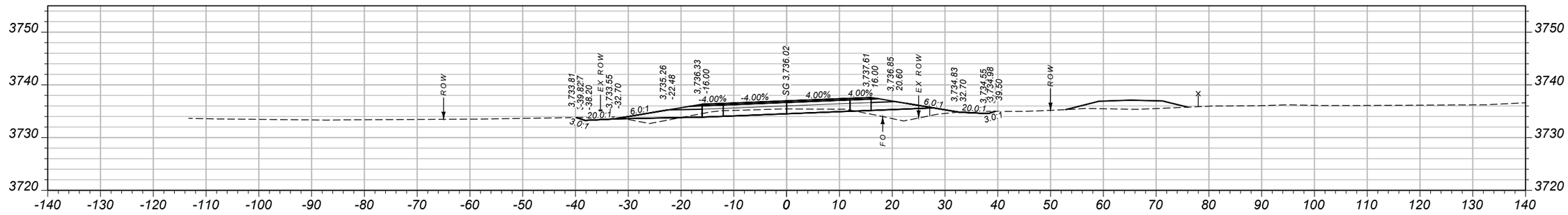
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MONTANA
Department of Transportation

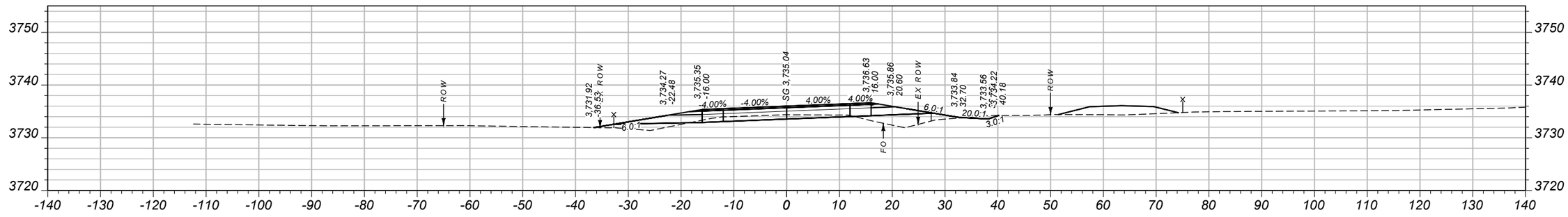
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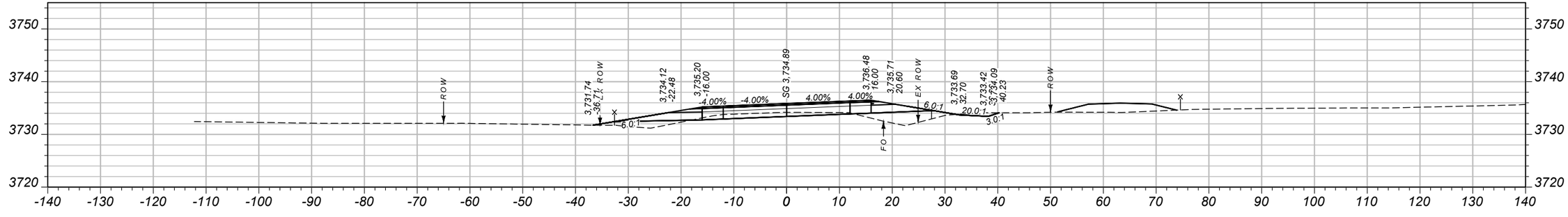
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CV: 24 CY STA 51+50.00 FV: 32 CY



CV: 3 CY STA 51+25.00 FV: 6 CY



CV: 17 CY STA 51+21.08 FV: 34 CY

SHEET NO.
73

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

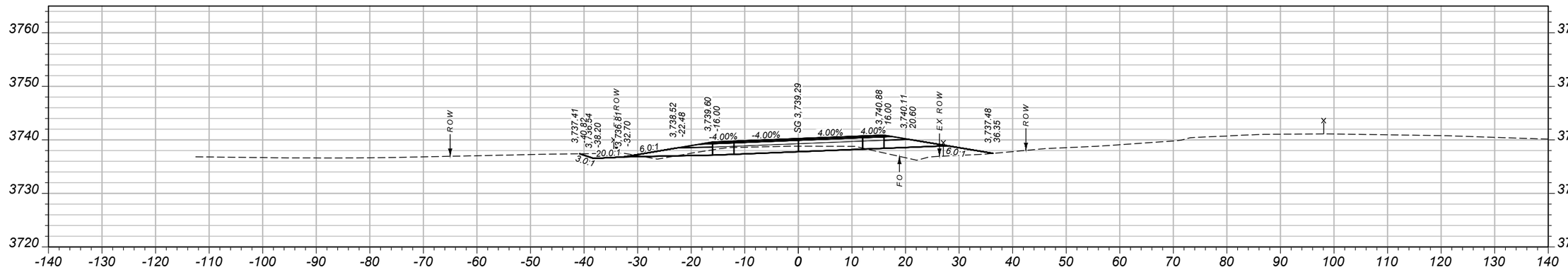
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MONTANA Department of Transportation

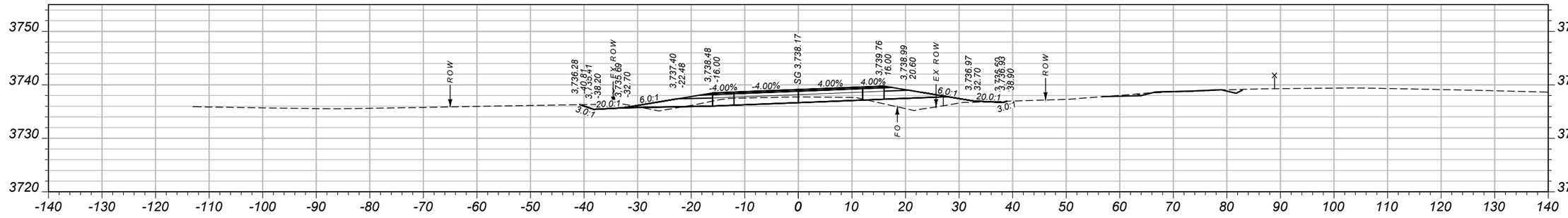
CROSS SECTIONS

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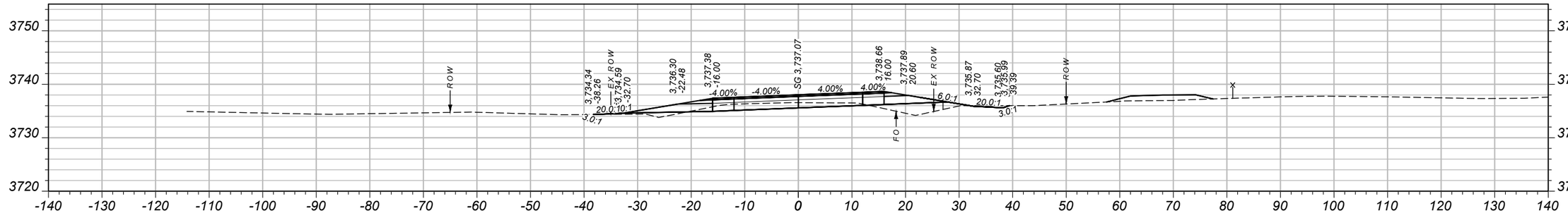
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CV: 35 CY STA 52+25.00 FV: 29 CY



CV: 31 CY STA 52+00.00 FV: 27 CY



CV: 28 CY STA 51+75.00 FV: 26 CY

SHEET NO.
74

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

9116000RDXSF200.DWG

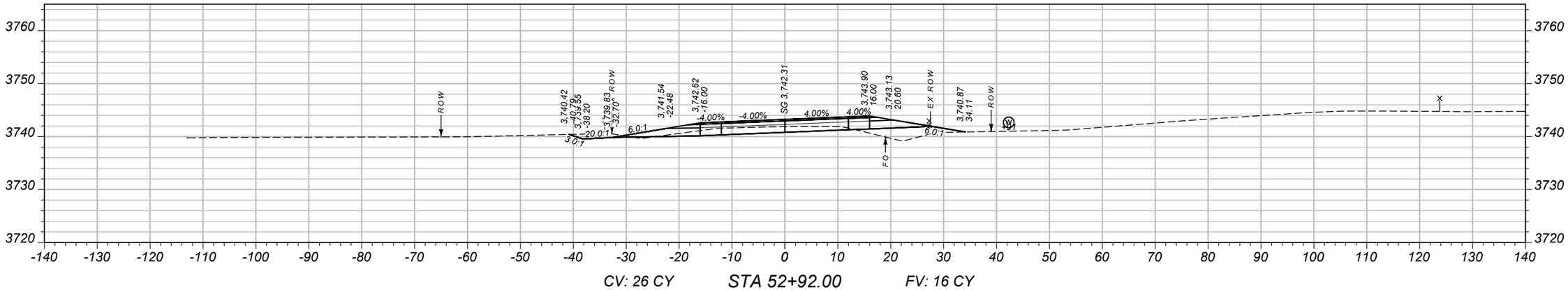
MONTANA
Department of Transportation

CROSS SECTIONS

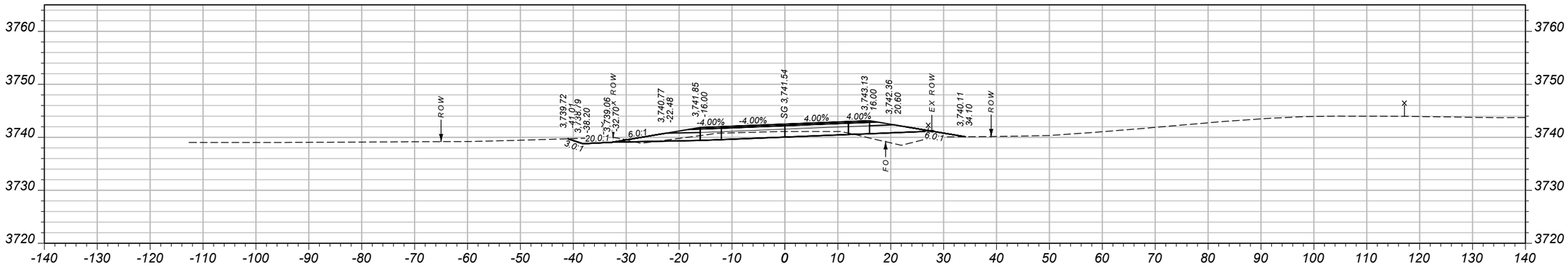
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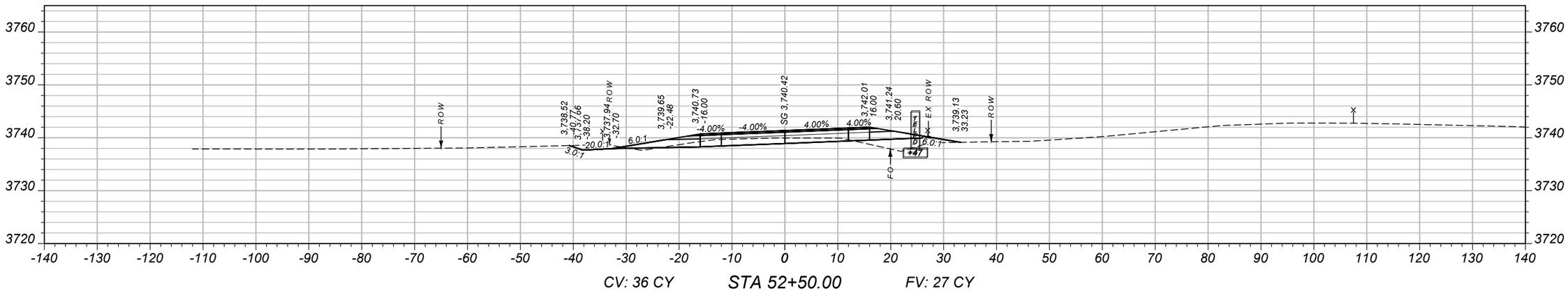
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CV: 26 CY STA 52+92.00 FV: 16 CY



CV: 37 CY STA 52+75.00 FV: 23 CY



CV: 36 CY STA 52+50.00 FV: 27 CY

SHEET NO.
75

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024
B HENDERSON	
REVIEWED BY	02/2024
J. BROTZLER	
CHECKED BY	11/2024
J. CERECK	

9116000RDXSF200.DWG

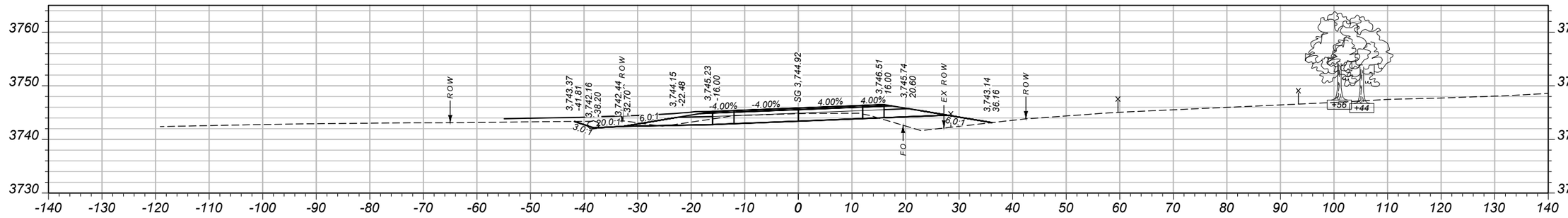
MONTANA
Department of Transportation

CROSS SECTIONS

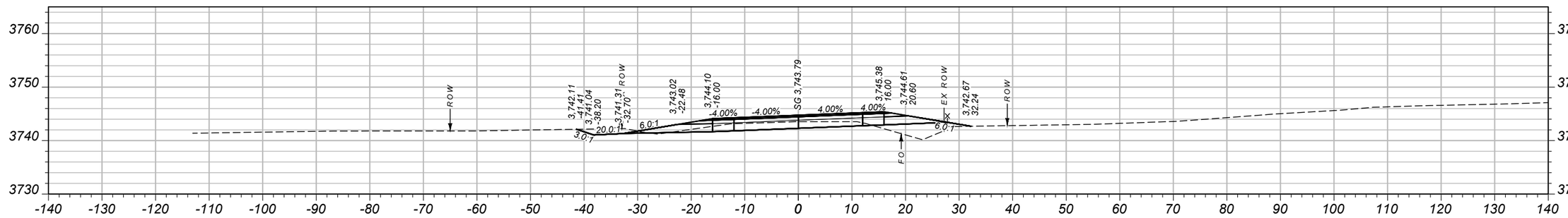
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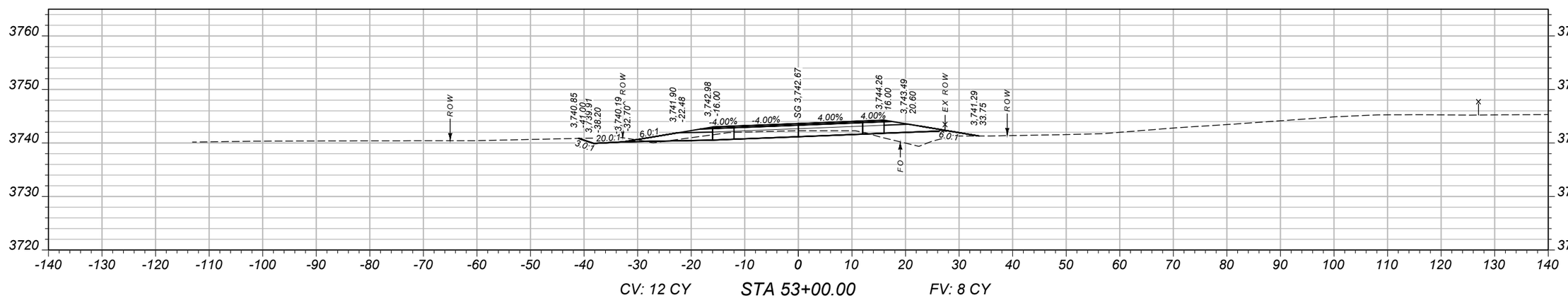
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CV: 47 CY STA 53+50.00 FV: 28 CY



CV: 41 CY STA 53+25.00 FV: 25 CY



CV: 12 CY STA 53+00.00 FV: 8 CY

SHEET NO. 76

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

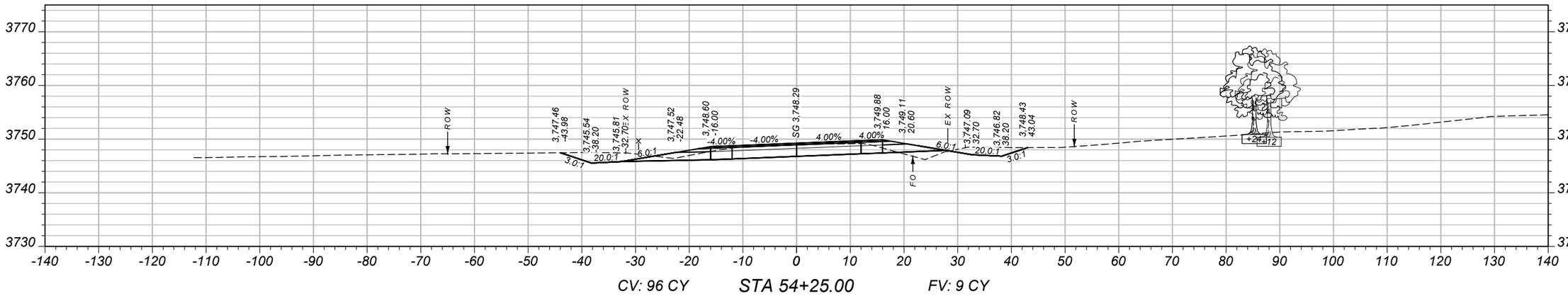
MONTANA Department of Transportation

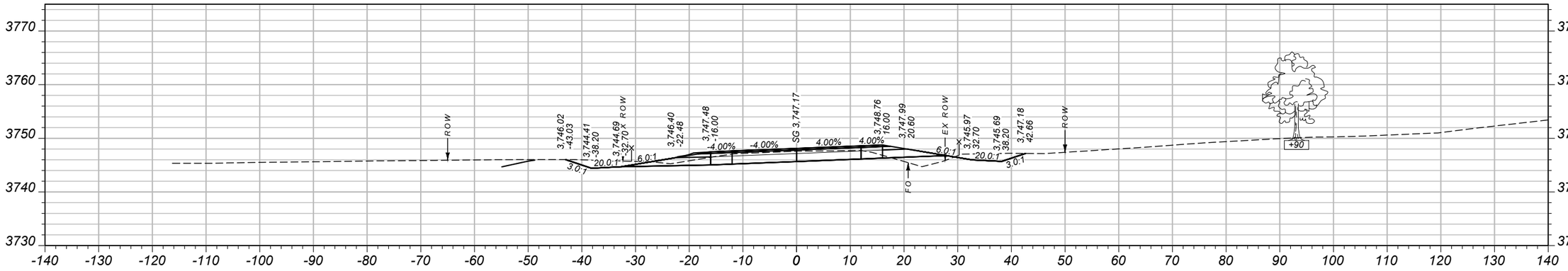
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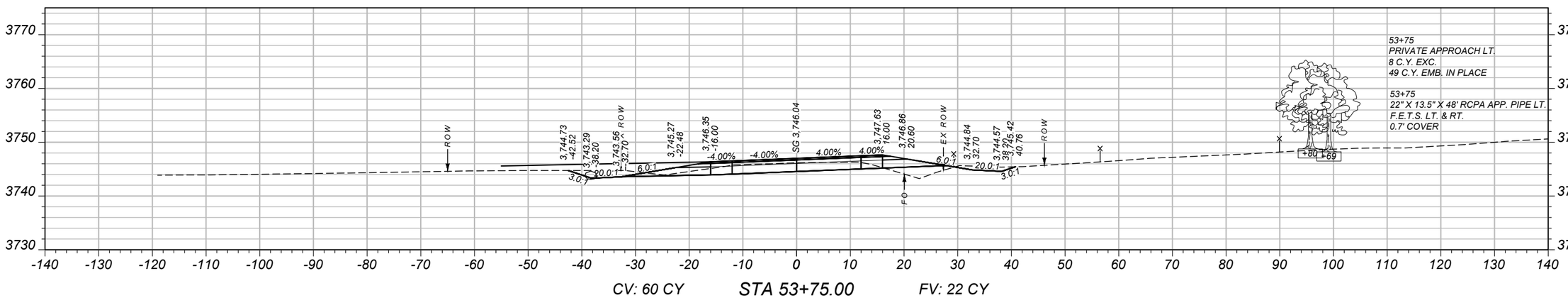
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9116000RDXSF200.DWG

Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B







SHEET NO.
77

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

MONTANA
Department of Transportation

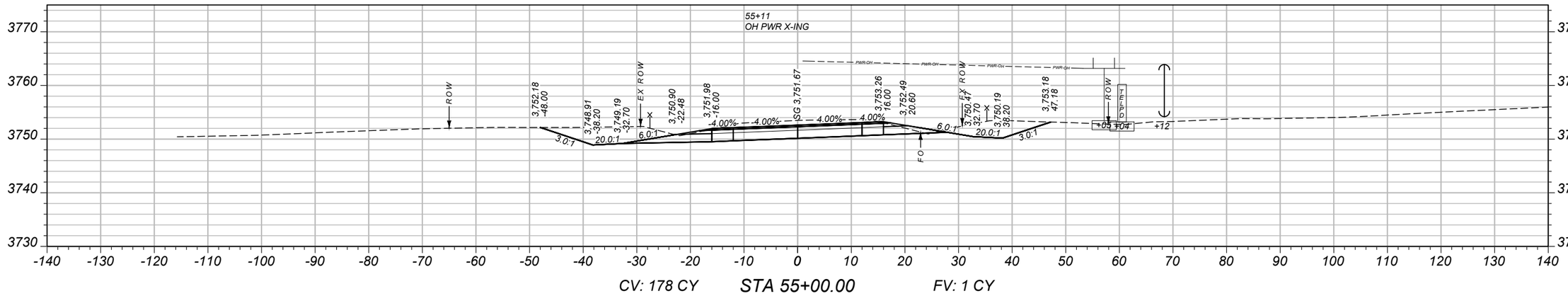
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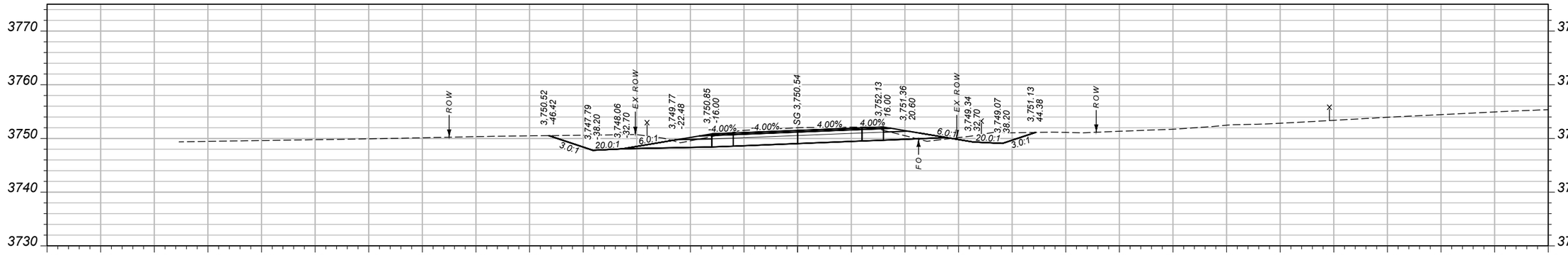
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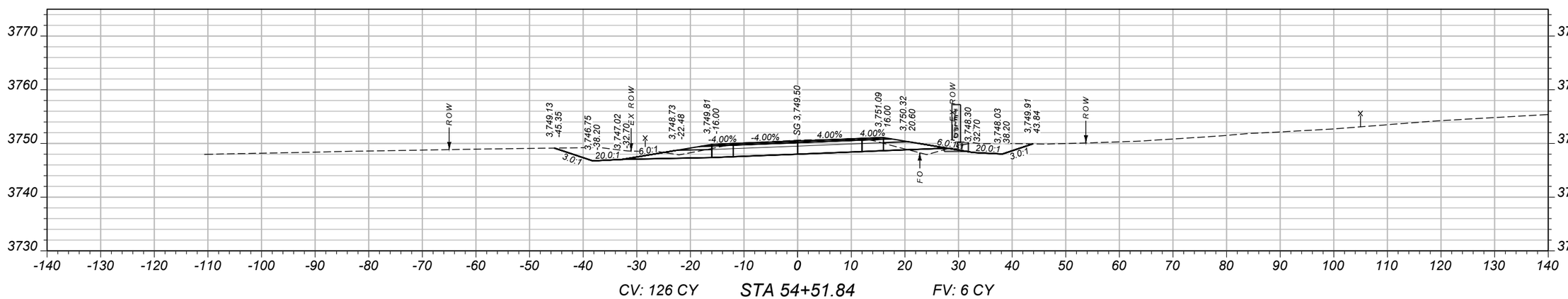
AWARD COPY



CV: 178 CY STA 55+00.00 FV: 1 CY



CV: 132 CY STA 54+75.00 FV: 3 CY



CV: 126 CY STA 54+51.84 FV: 6 CY

SHEET NO.
78

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

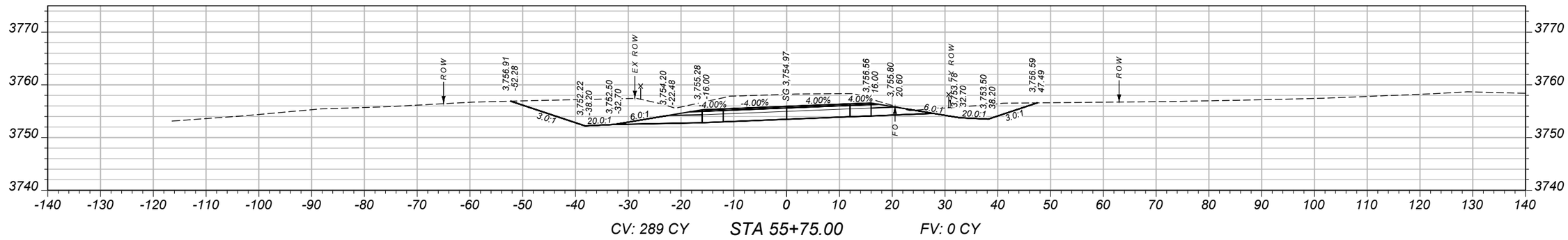
MONTANA
Department of Transportation

CROSS SECTIONS

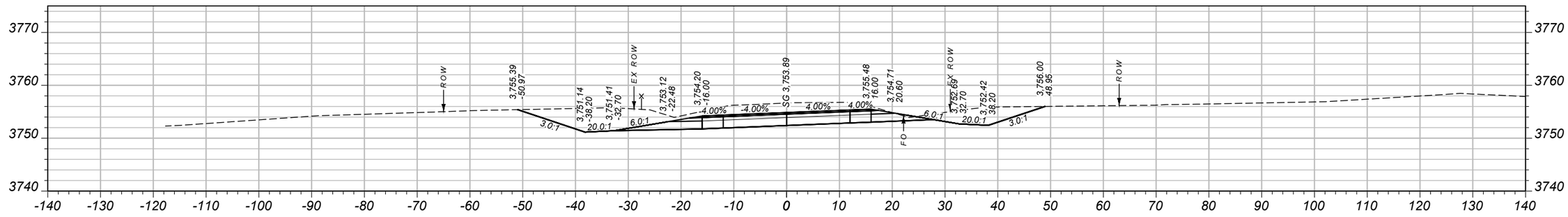
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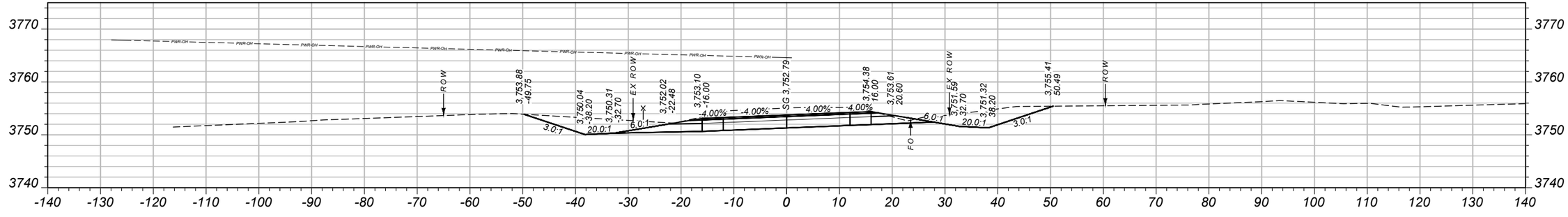
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CV: 289 CY STA 55+75.00 FV: 0 CY



CV: 251 CY STA 55+50.00 FV: 0 CY



CV: 214 CY STA 55+25.00 FV: 0 CY

SHEET NO.
79

CROSS SECTIONS

PROJECT NAME **SF 159 SE COLUMBUS SHLDR WID**
COUNTY **STILLWATER COUNTY**
PROJECT ID **HSIP 421-1(13)5**
UPN **9116000**

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

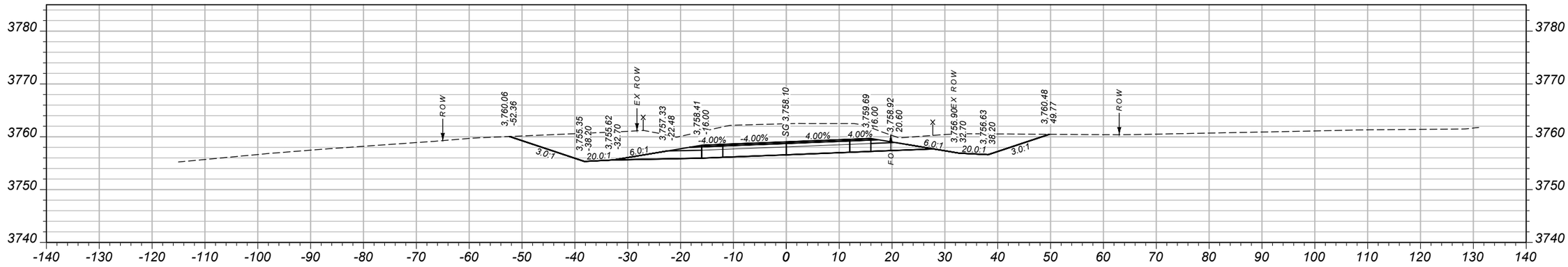
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MONTANA
Department of Transportation

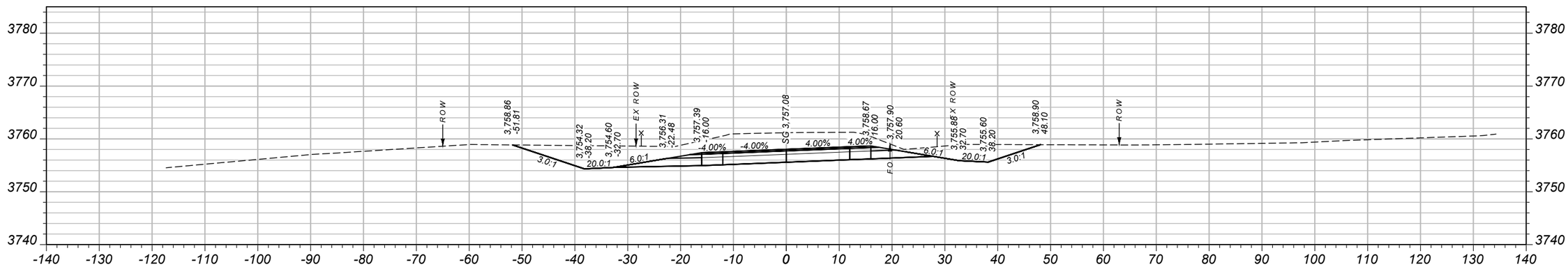
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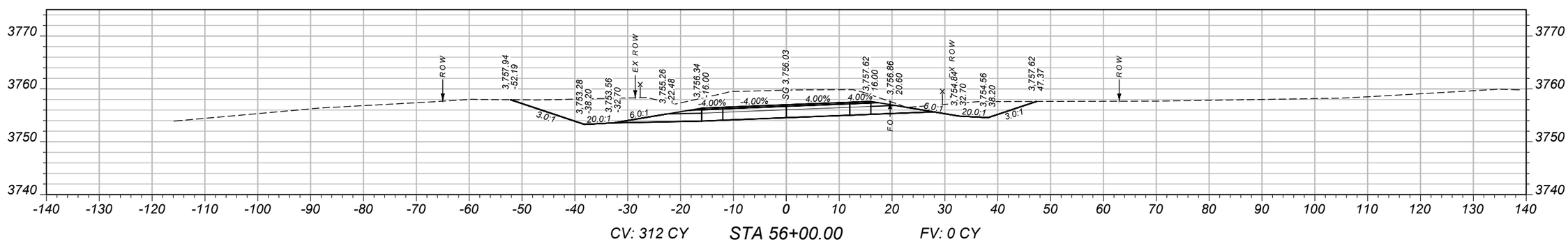
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CV: 365 CY STA 56+50.00 FV: 0 CY



CV: 331 CY STA 56+25.00 FV: 0 CY



CV: 312 CY STA 56+00.00 FV: 0 CY

SHEET NO.
80

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

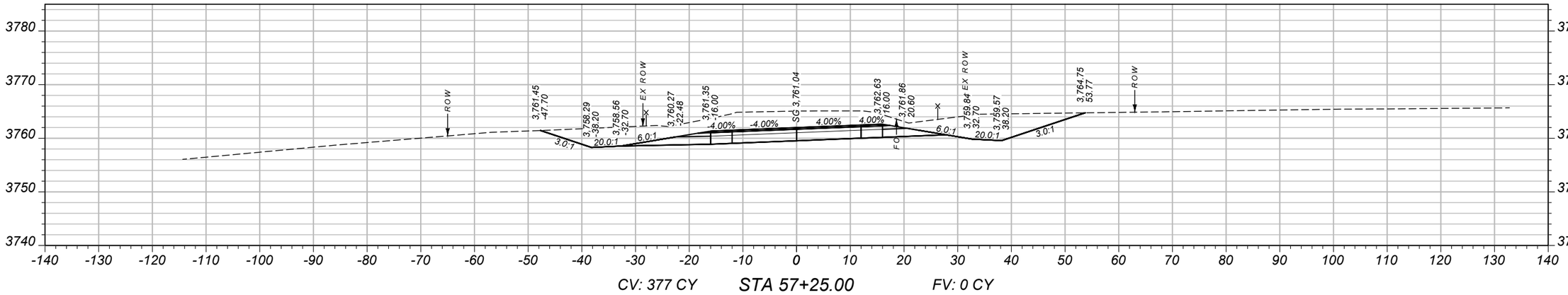
MONTANA
Department of Transportation

CROSS SECTIONS

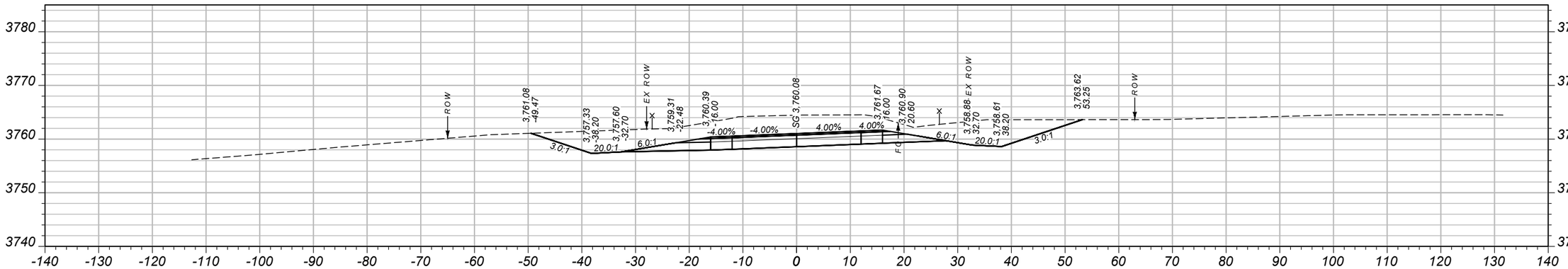
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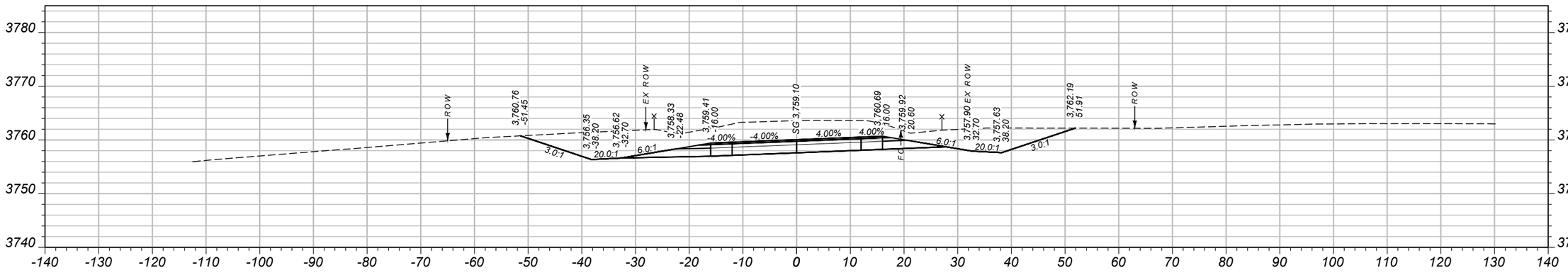
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CV: 377 CY STA 57+25.00 FV: 0 CY



CV: 400 CY STA 57+00.00 FV: 0 CY



CV: 400 CY STA 56+75.00 FV: 0 CY

SHEET NO.
81

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024
B HENDERSON		J. BROTZLER	
CHECKED BY	11/2024		
J. CERECK			

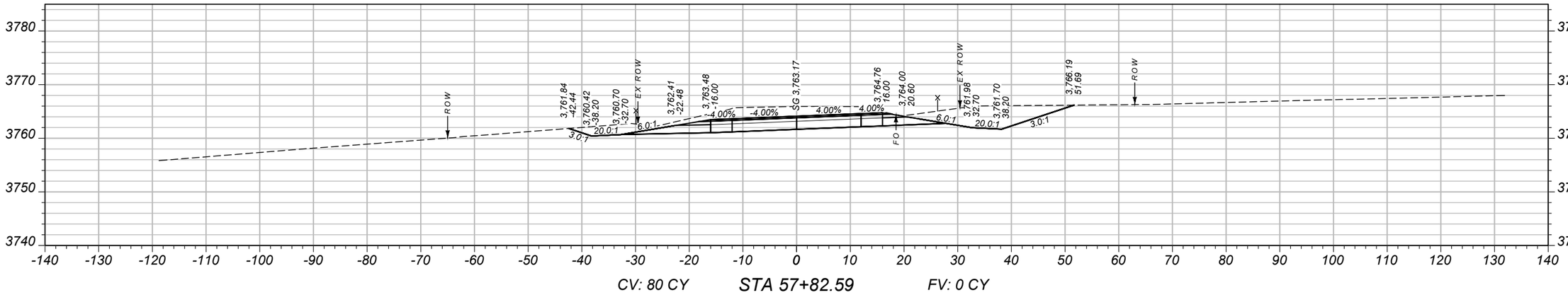
9116000RDXSF200.DWG

MONTANA
Department of Transportation

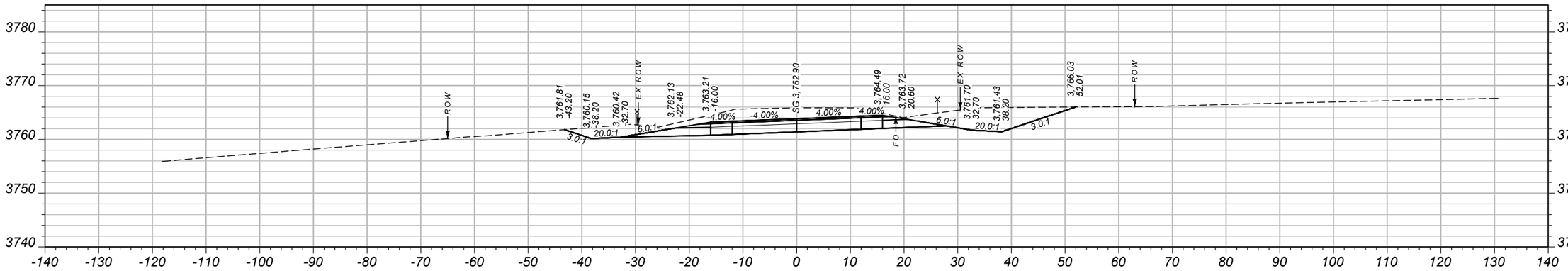
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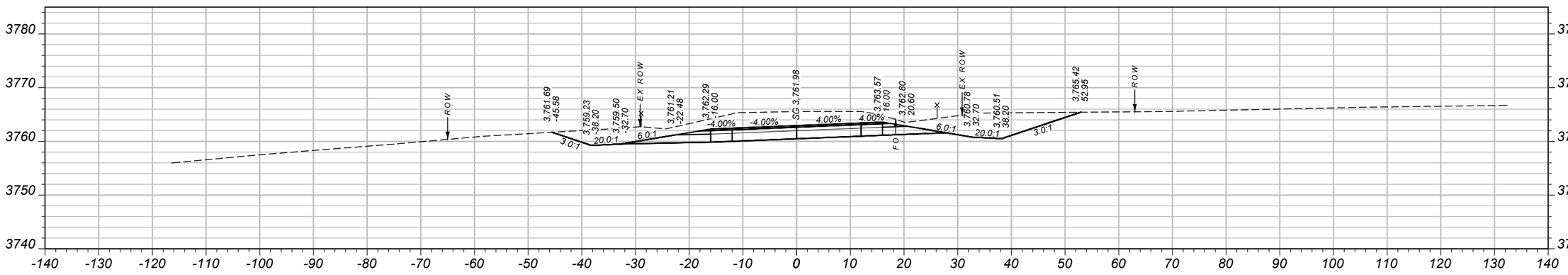
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CV: 80 CY **STA 57+82.59** FV: 0 CY



CV: 295 CY **STA 57+75.00** FV: 0 CY



CV: 342 CY **STA 57+50.00** FV: 0 CY

SHEET NO.
82

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. CERECK	
REVIEWED BY	02/2024		
J. BROTZLER			

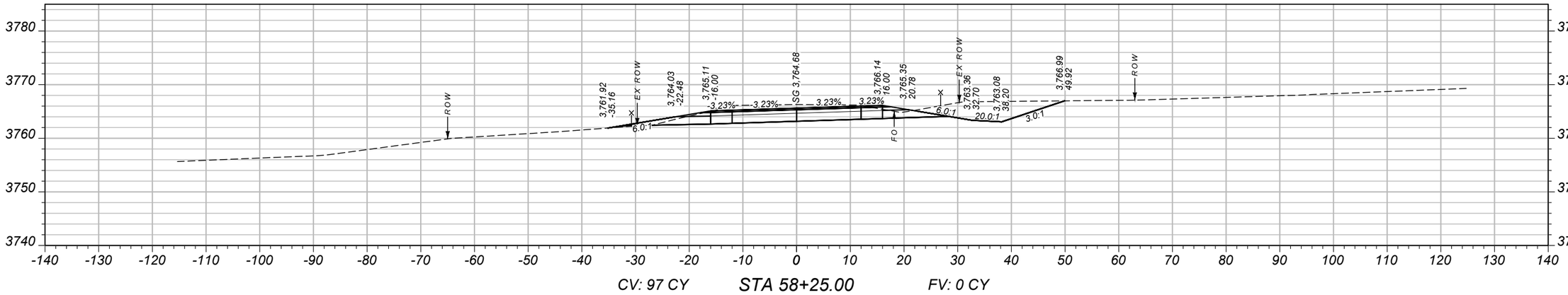
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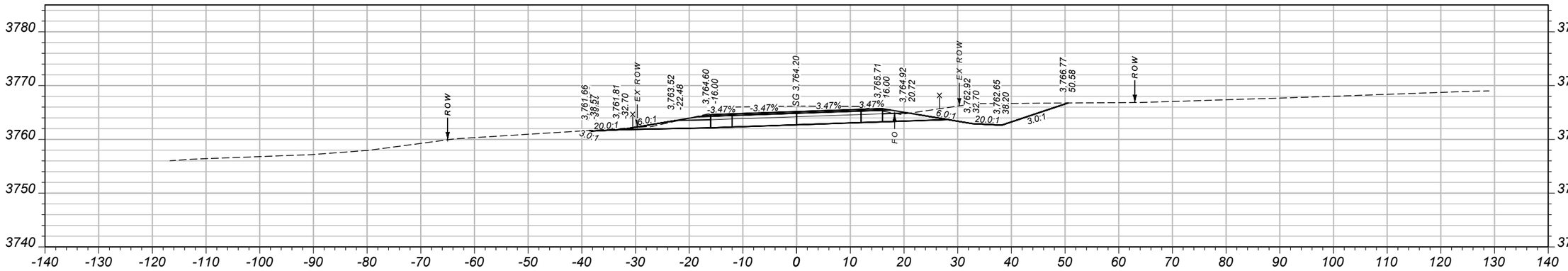
MONTANA
Department of Transportation

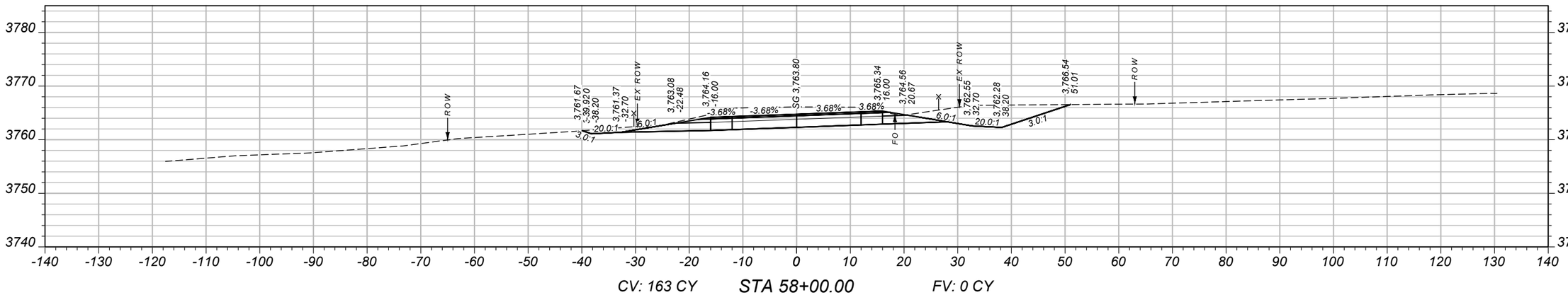
CROSS SECTIONS

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CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		DESIGNED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024
REVIEWED BY		CHECKED BY	
J. CERECK	11/2024	9116000RDXSF200.DWG	

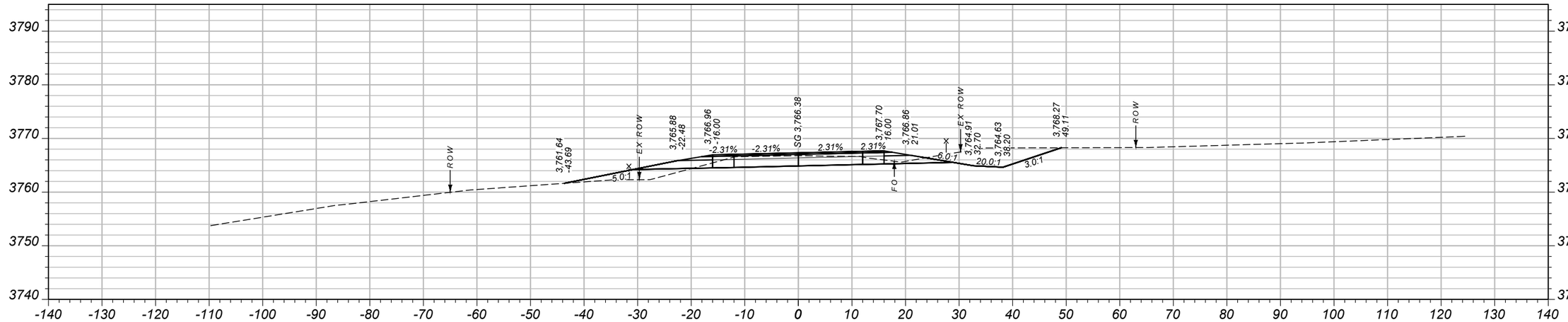
MONTANA
Department of Transportation

CROSS SECTIONS

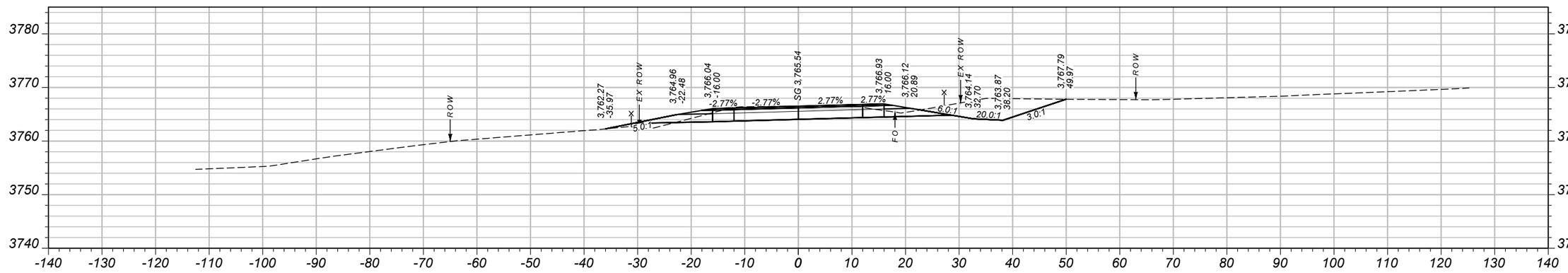
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AWARD COPY



CV: 122 CY STA 58+75.00 FV: 15 CY



CV: 153 CY STA 58+50.00 FV: 3 CY

SHEET NO.
84

CROSS SECTIONS

PROJECT NAME: **SF 159 SE COLUMBUS SHLDR WID**
COUNTY: **STILLWATER COUNTY**
PROJECT ID: **HSIP 421-1(13)5**
UPN: **9116000**

DESIGNED BY	B HENDERSON	02/2024	REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024	9116000RDXSF200.DWG		

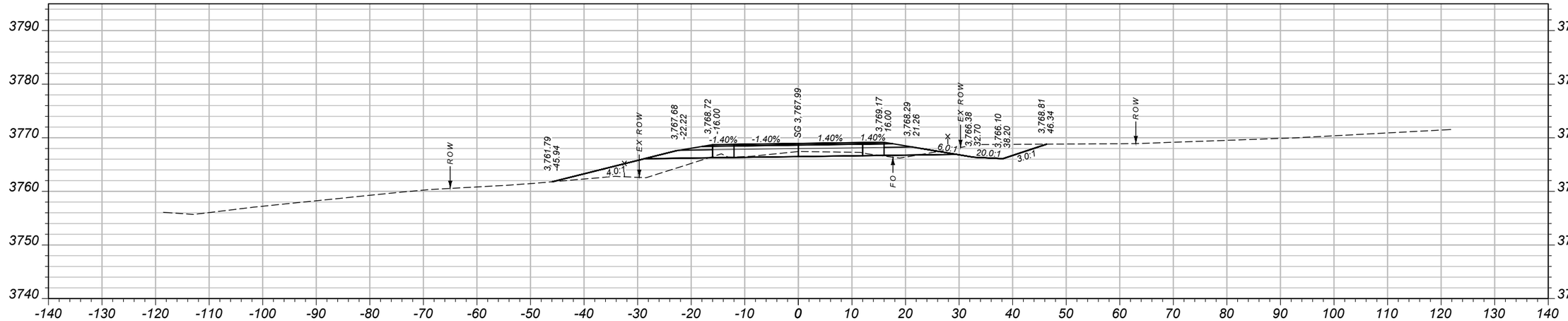
MONTANA
Department of Transportation

CROSS SECTIONS

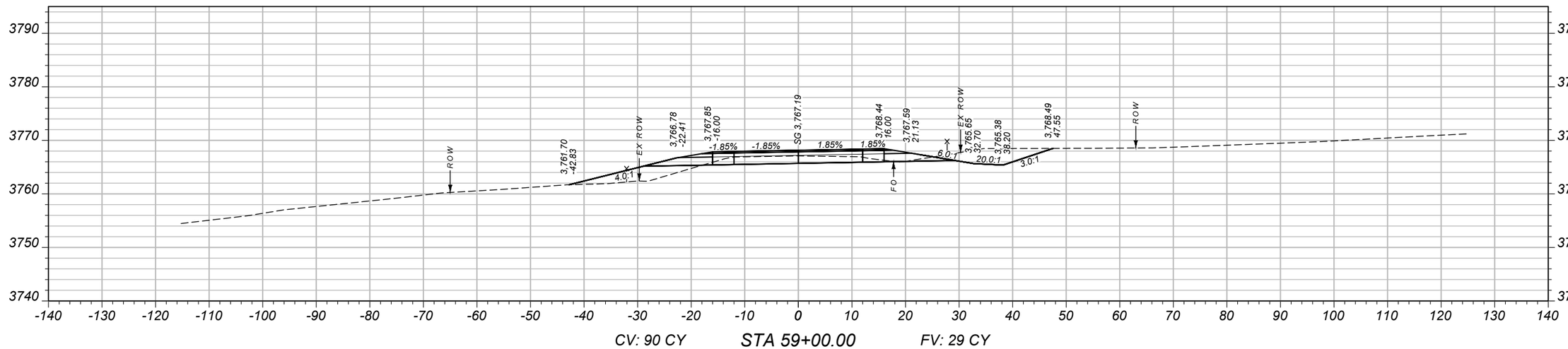
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AWARD COPY



CV: 61 CY STA 59+25.00 FV: 40 CY



CV: 90 CY STA 59+00.00 FV: 29 CY

SHEET NO.
85

CROSS SECTIONS

PROJECT NAME: **SF 159 SE COLUMBUS SHLDR WID**
COUNTY: **STILLWATER COUNTY**
PROJECT ID: **HSIP 421-1(13)5**
UPN: **9116000**

DESIGNED BY		DATE
B HENDERSON		02/2024
REVIEWED BY		DATE
J. BROTZLER		02/2024
CHECKED BY		DATE
J. CERECK		11/2024

MONTANA
Department of Transportation

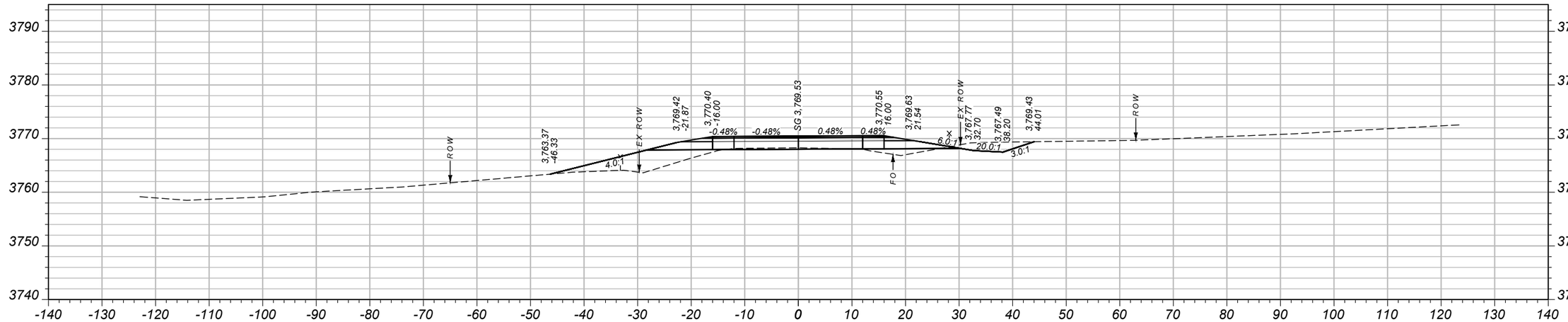
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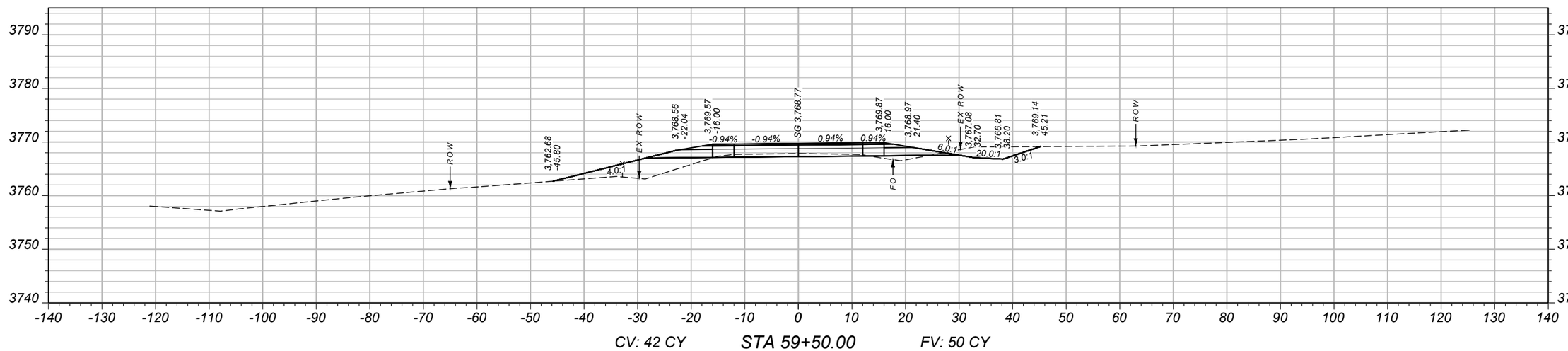
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY



CV: 29 CY STA 59+75.00 FV: 60 CY



CV: 42 CY STA 59+50.00 FV: 50 CY

SHEET NO. 86

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

9116000RDXSF200.DWG

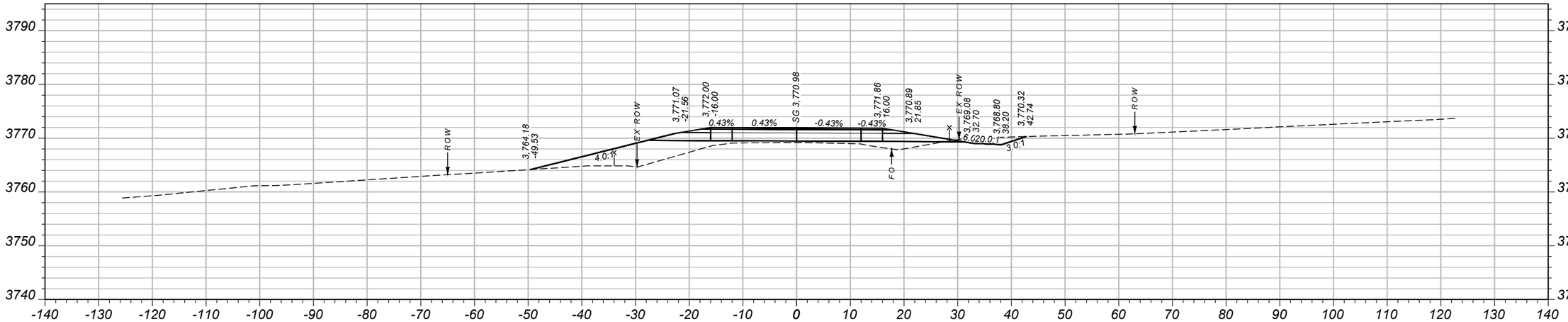
MONTANA
Department of Transportation

CROSS SECTIONS

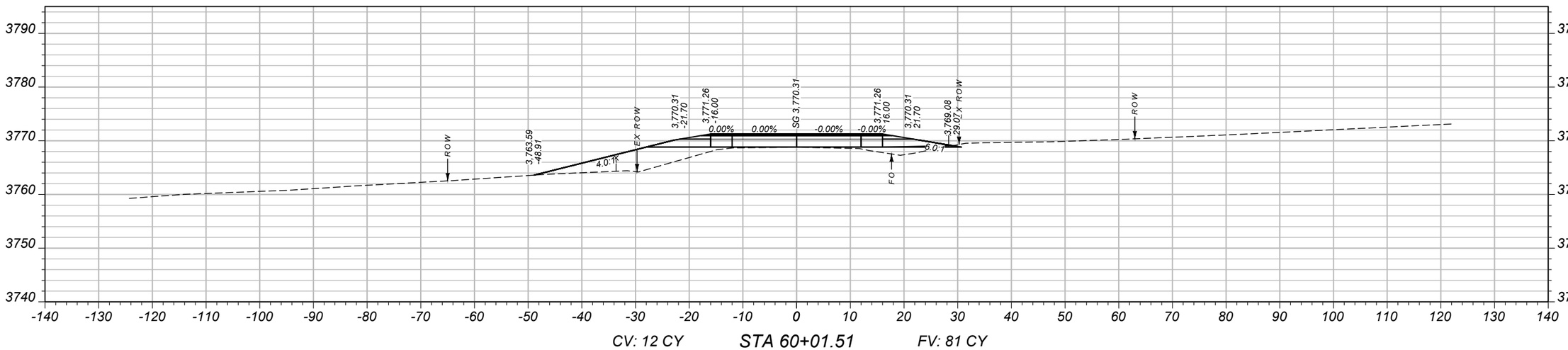
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

AWARD COPY



CV: 5 CY STA 60+25.00 FV: 87 CY



CV: 12 CY STA 60+01.51 FV: 81 CY

SHEET NO.
87

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	B HENDERSON	
REVIEWED BY	02/2024	J. BROTZLER	
CHECKED BY	11/2024	J. CERECK	

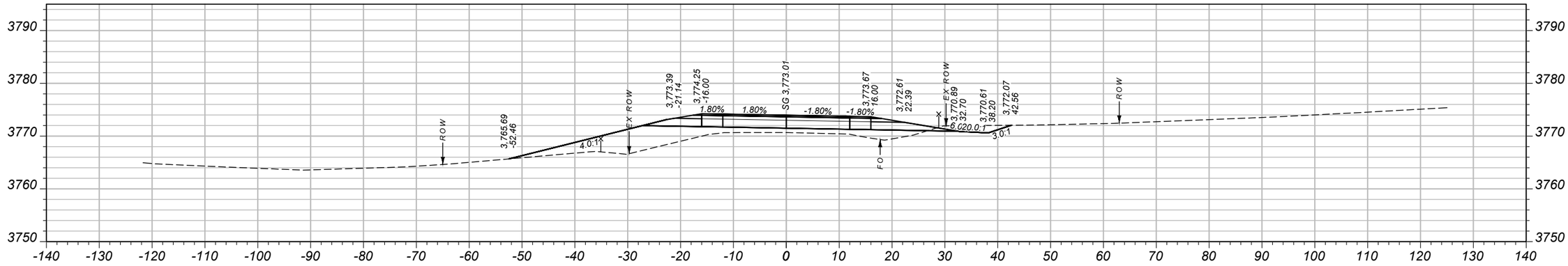
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MONTANA
Department of Transportation

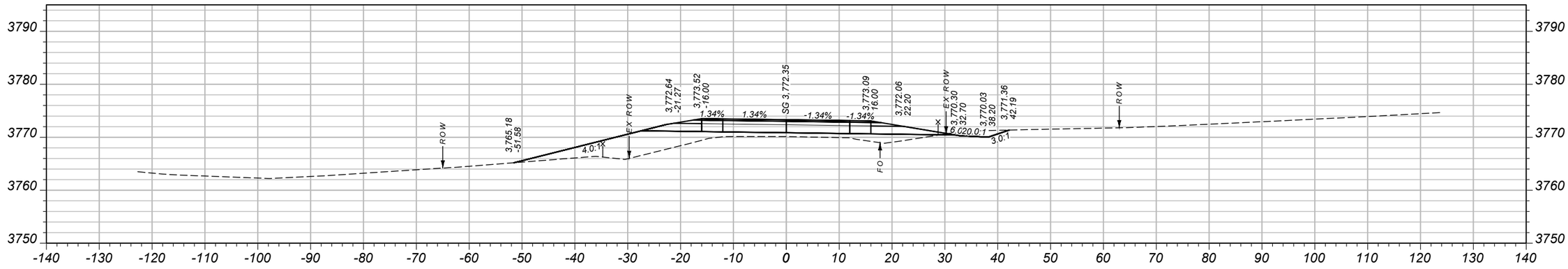
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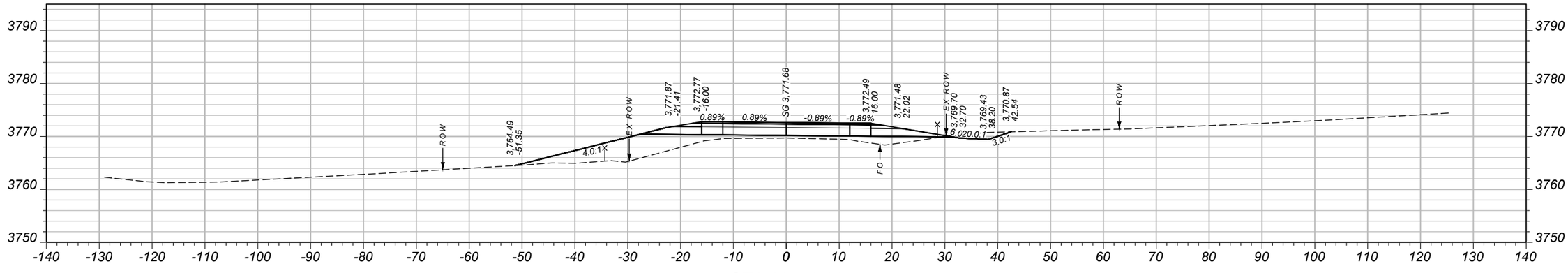
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CV: 11 CY STA 61+00.00 FV: 126 CY



CV: 9 CY STA 60+75.00 FV: 119 CY



CV: 10 CY STA 60+50.00 FV: 107 CY

SHEET NO. 88

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUN
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024		
B HENDERSON			
REVIEWED BY	02/2024		
J. BROTZLER			
CHECKED BY	11/2024		
J. CERECK			

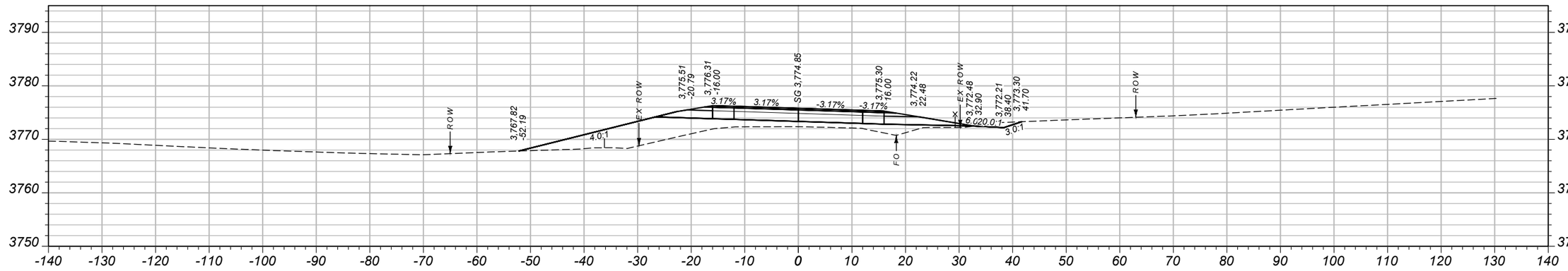
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MONTANA Department of Transportation

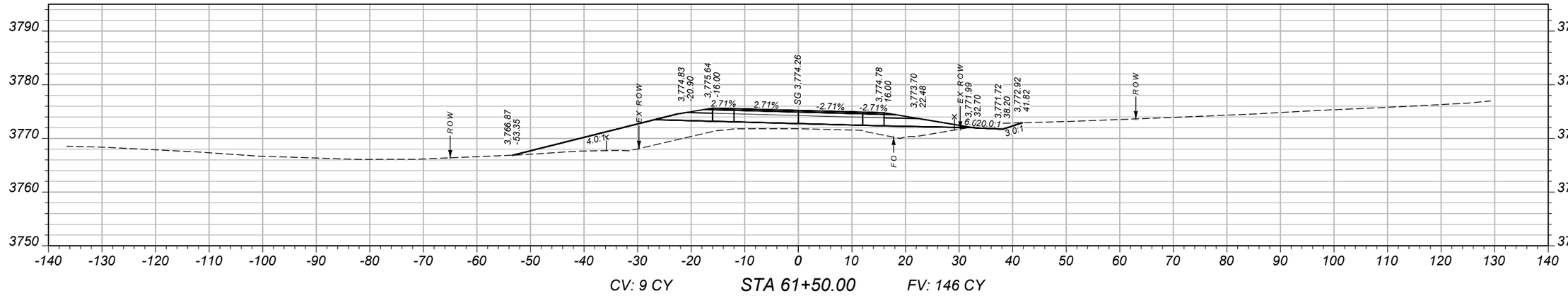
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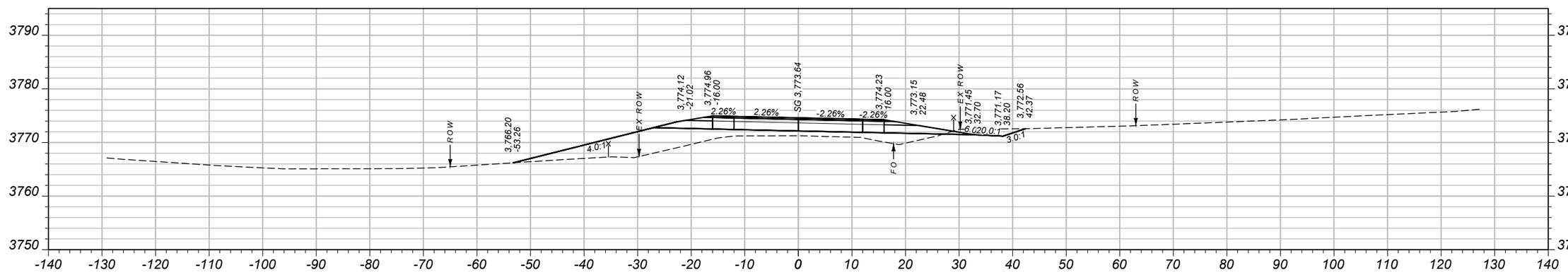
Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B



CV: 5 CY STA 61+75.00 FV: 147 CY



CV: 9 CY STA 61+50.00 FV: 146 CY



CV: 13 CY STA 61+25.00 FV: 135 CY

SHEET NO. 89

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	

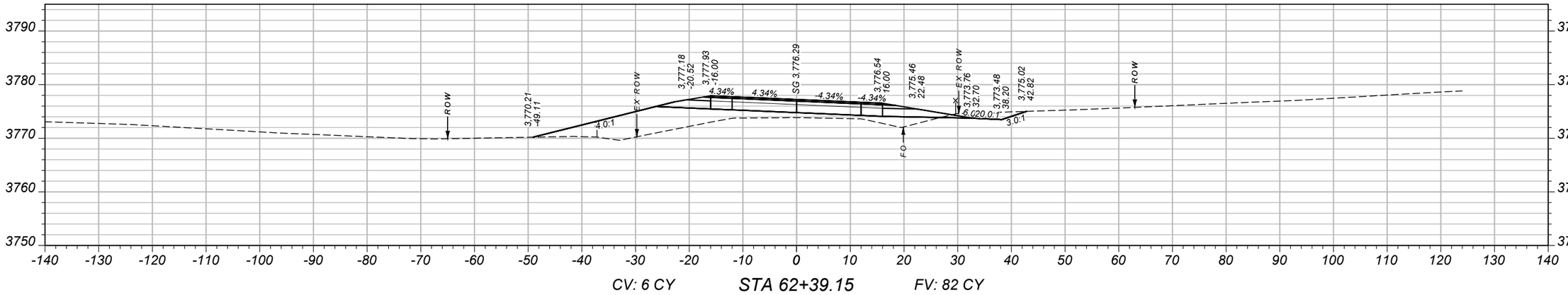
MONTANA Department of Transportation

CROSS SECTIONS

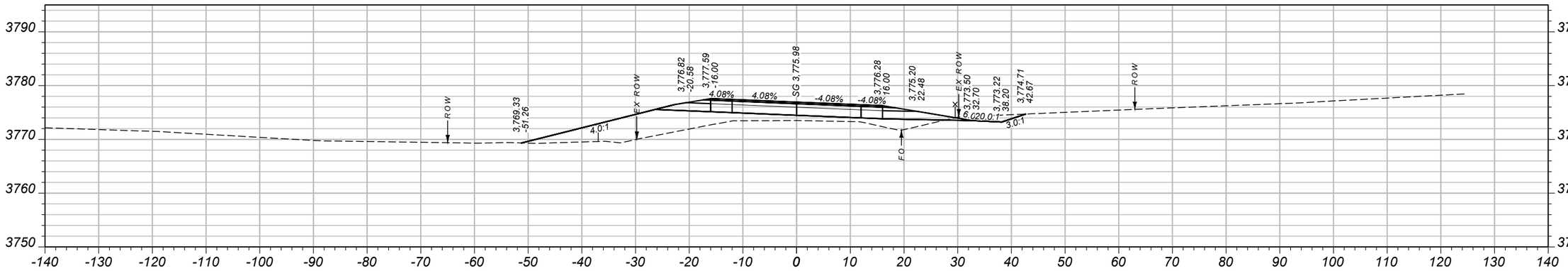
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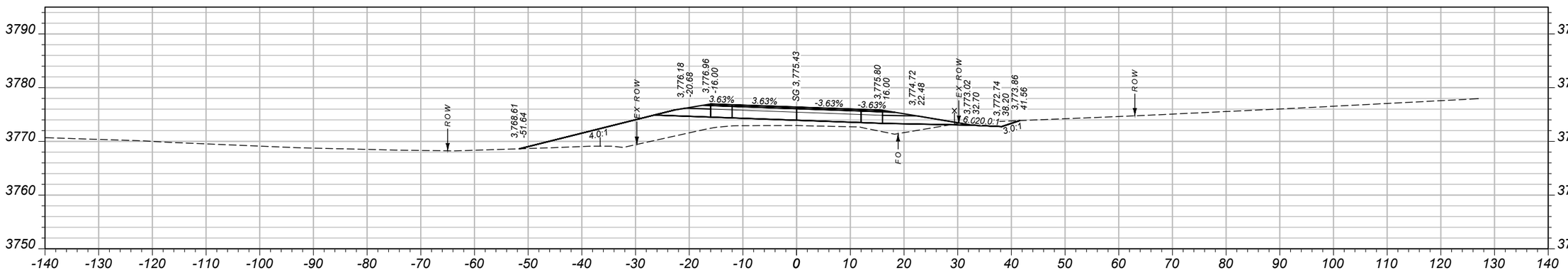
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CV: 6 CY STA 62+39.15 FV: 82 CY



CV: 8 CY STA 62+25.00 FV: 147 CY



CV: 5 CY STA 62+00.00 FV: 144 CY

SHEET NO.
90

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024	REVIEWED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. BROTZLER		J. CERECK	9116000RDXSF200.DWG

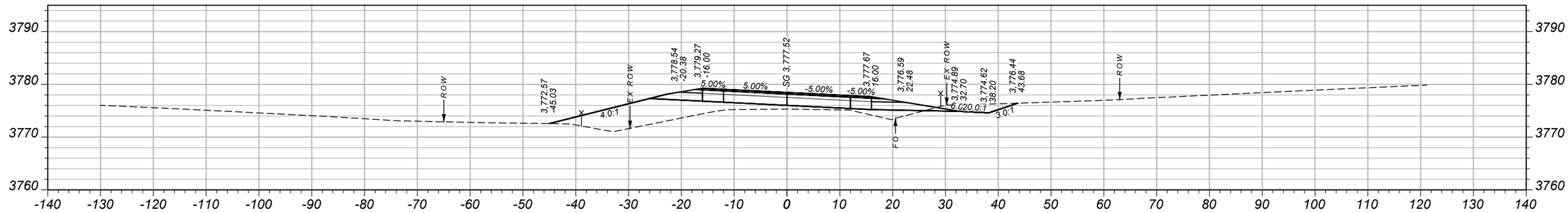
MONTANA
Department of Transportation

CROSS SECTIONS

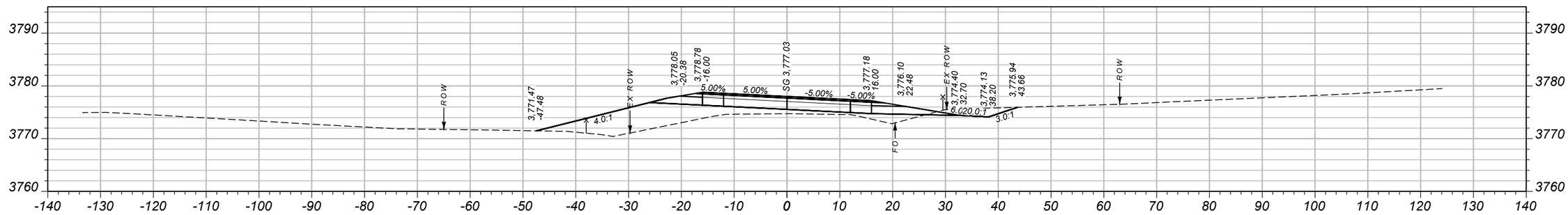
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Docusign Envelope ID: FE55A089-A95C-4D68-8983-4652E9678F4B

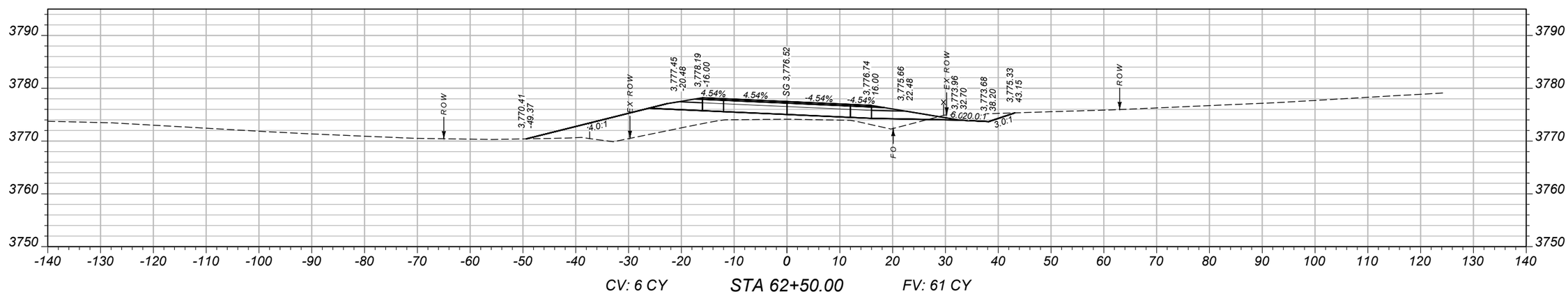
AWARD COPY



CV: 16 CY STA 63+00.00 FV: 129 CY



CV: 15 CY STA 62+75.15 FV: 138 CY



CV: 6 CY STA 62+50.00 FV: 61 CY

SHEET NO.
91

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

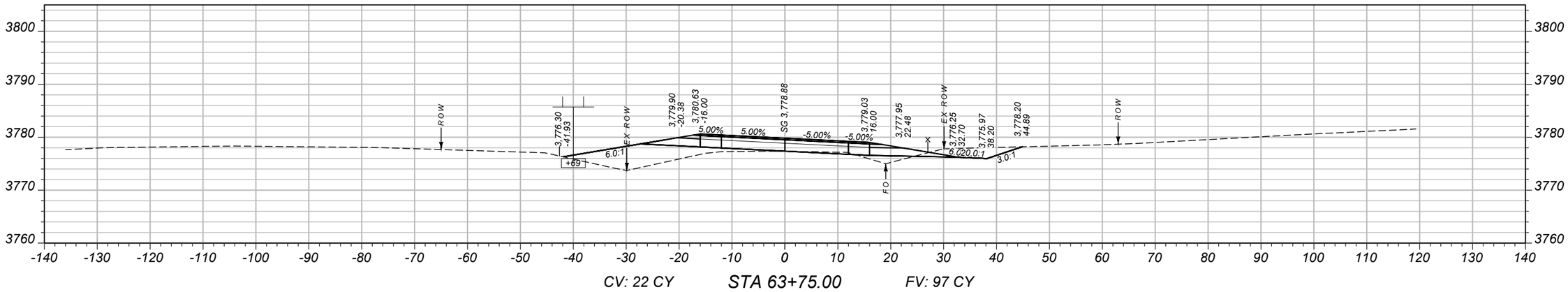
MONTANA
Department of Transportation

CROSS SECTIONS

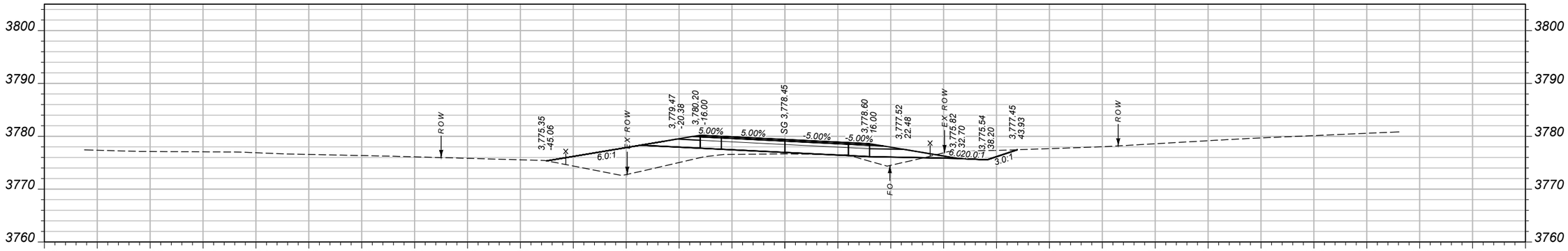
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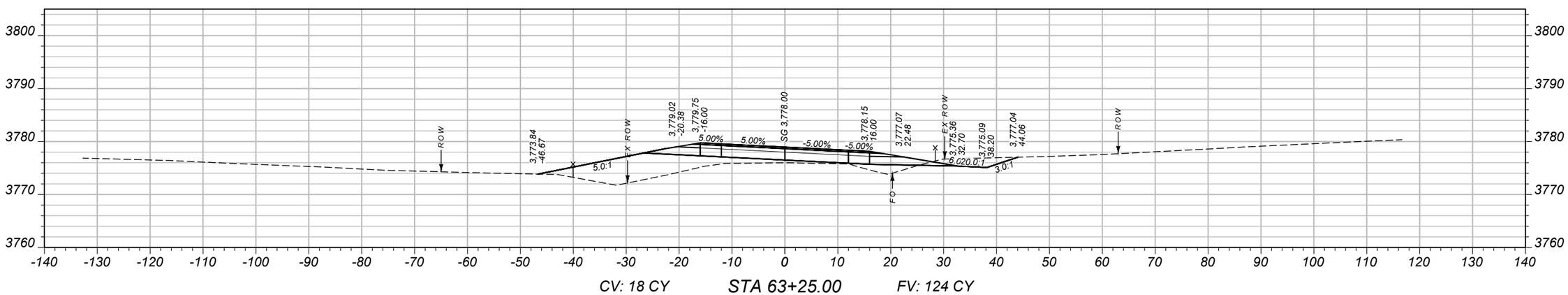
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CV: 22 CY STA 63+75.00 FV: 97 CY



CV: 18 CY STA 63+50.00 FV: 117 CY



CV: 18 CY STA 63+25.00 FV: 124 CY

SHEET NO.
92

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY		REVIEWED BY		CHECKED BY	
B HENDERSON	02/2024	J. BROTZLER	02/2024	J. CERECK	11/2024

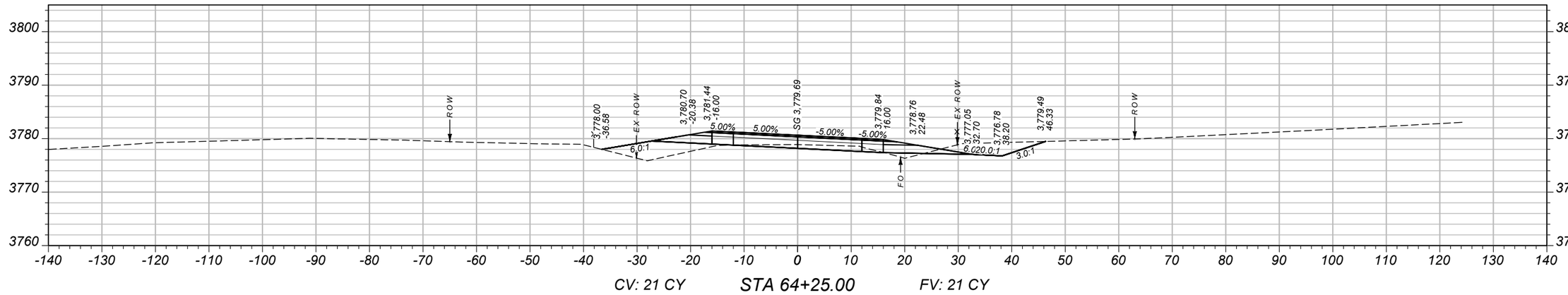
MONTANA
Department of Transportation

CROSS SECTIONS

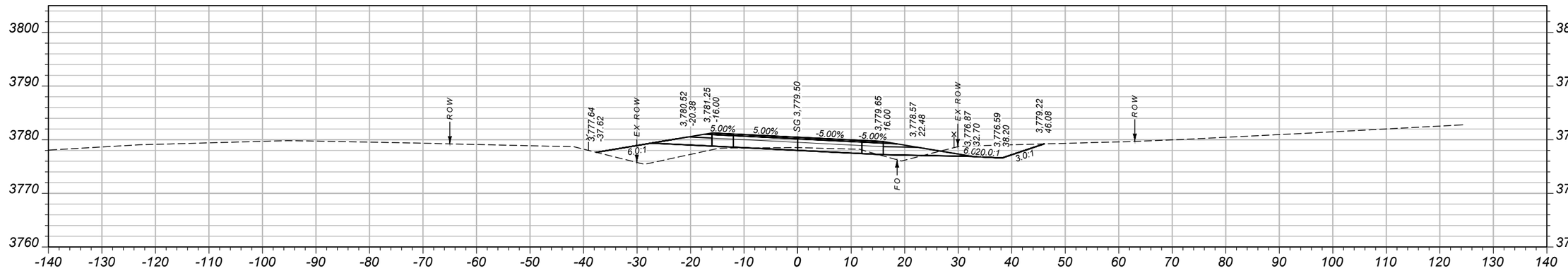
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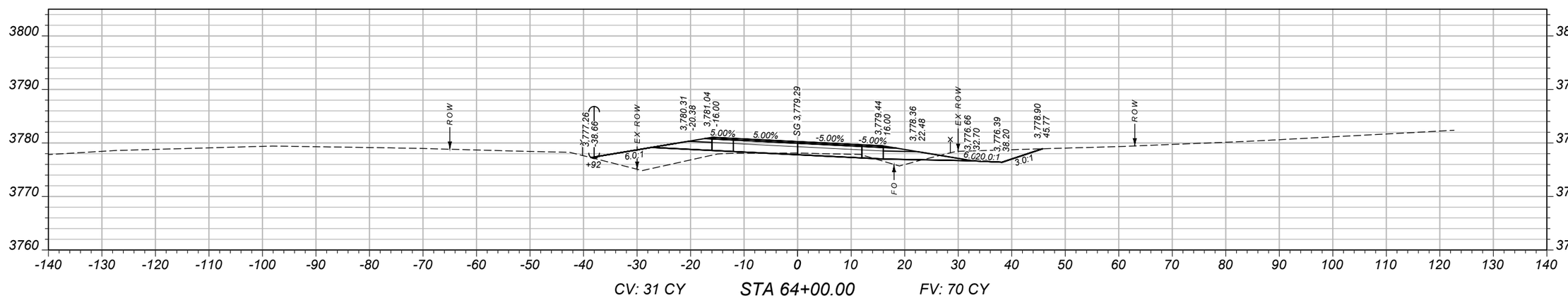
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CV: 21 CY STA 64+25.00 FV: 21 CY



CV: 20 CY STA 64+13.09 FV: 28 CY



CV: 31 CY STA 64+00.00 FV: 70 CY

SHEET NO.
93

CROSS SECTIONS

PROJECT NAME
SF 159 SE COLUMBUS SHLDR WID

COUNTY
STILLWATER COUNTY

PROJECT ID
HSIP 421-1(13)5

UPN
9116000

DESIGNED BY
B HENDERSON
02/2024

REVIEWED BY
J. BROTZLER
02/2024

CHECKED BY
J. CERECK
11/2024

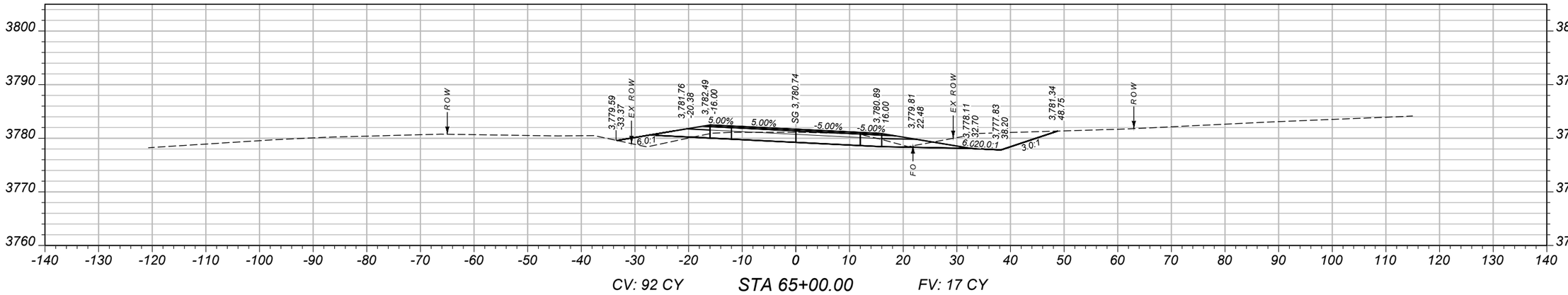
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MONTANA
Department of Transportation

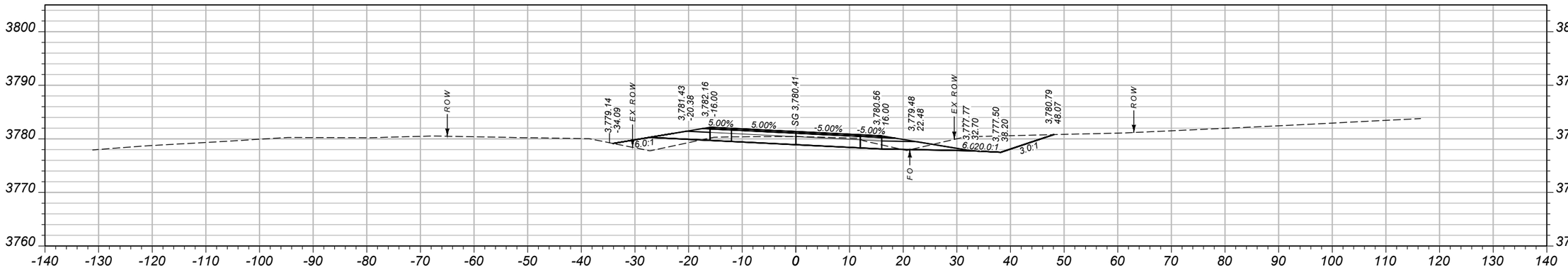
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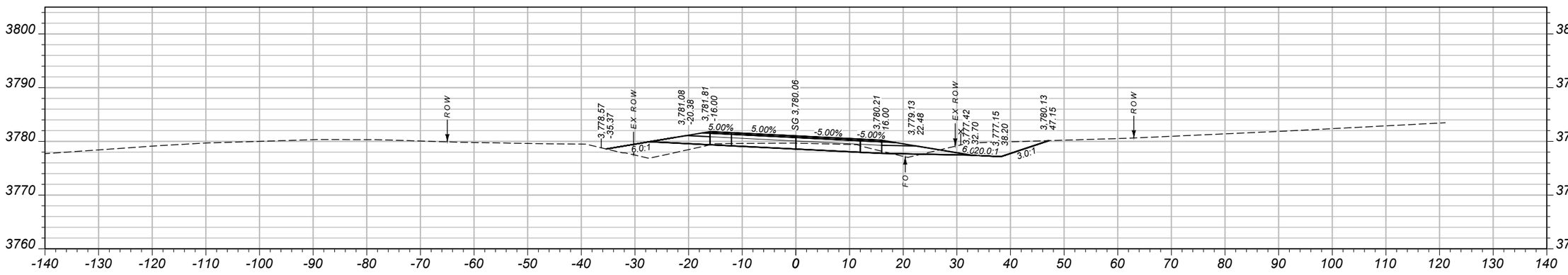
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CV: 92 CY STA 65+00.00 FV: 17 CY



CV: 72 CY STA 64+75.00 FV: 24 CY



CV: 54 CY STA 64+50.00 FV: 35 CY

SHEET NO.
94

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	B HENDERSON	
REVIEWED BY	02/2024	J. BROTZLER	
CHECKED BY	11/2024	J. CERECK	

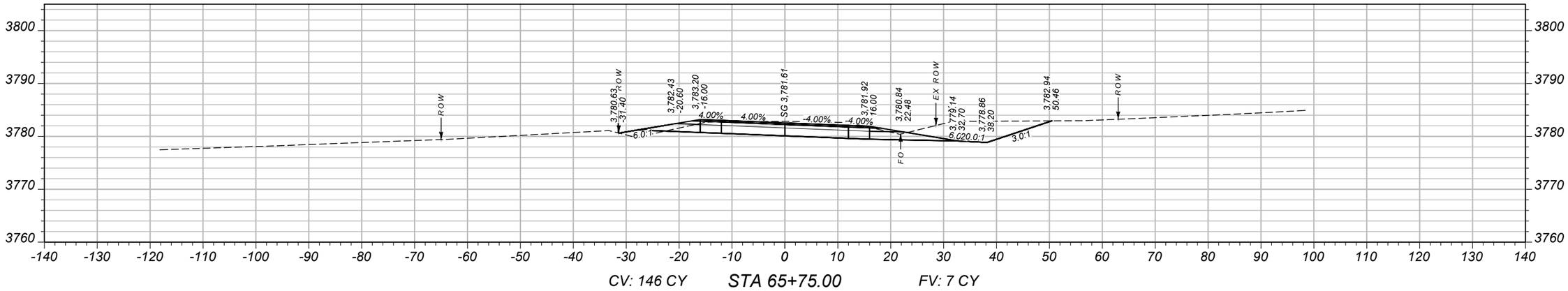
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MONTANA
Department of Transportation

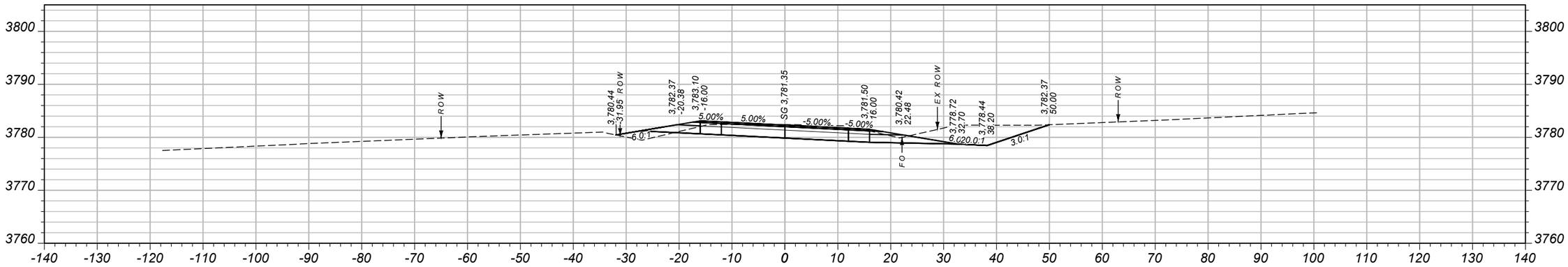
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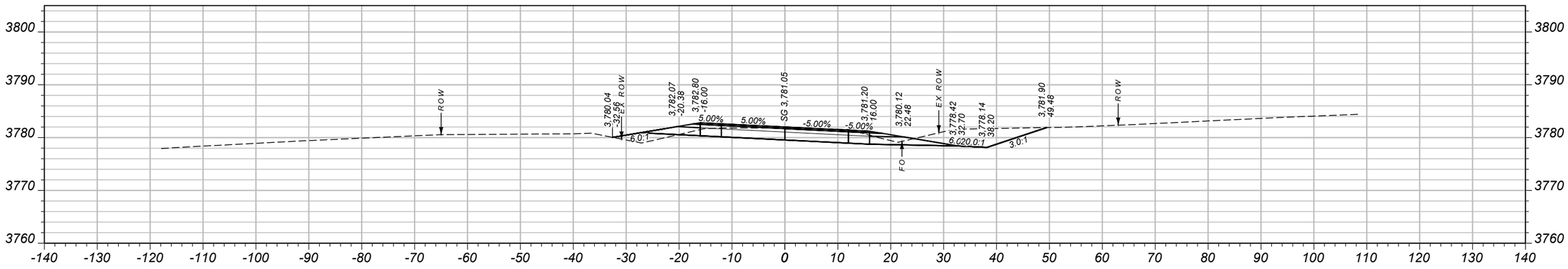
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CV: 146 CY STA 65+75.00 FV: 7 CY



CV: 141 CY STA 65+51.03 FV: 11 CY



CV: 113 CY STA 65+25.00 FV: 13 CY

SHEET NO.
95

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

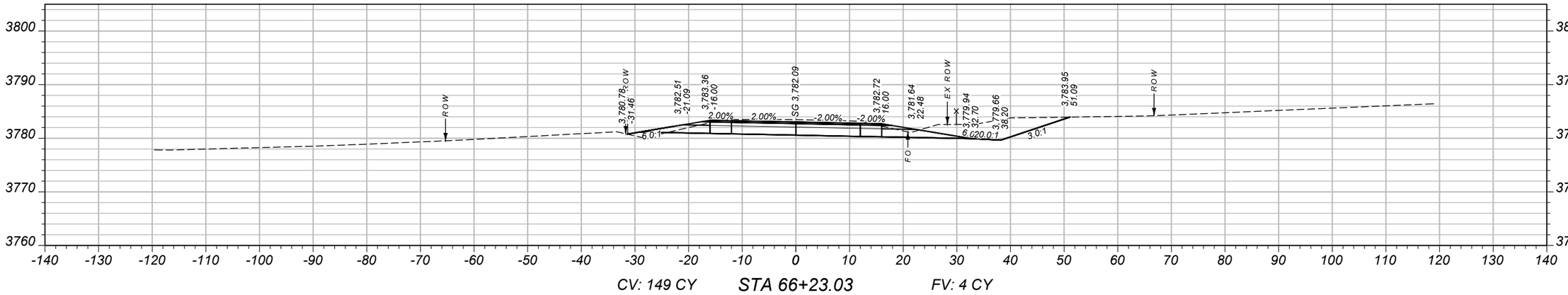
9116000RDXSF200.DWG

MONTANA
Department of Transportation

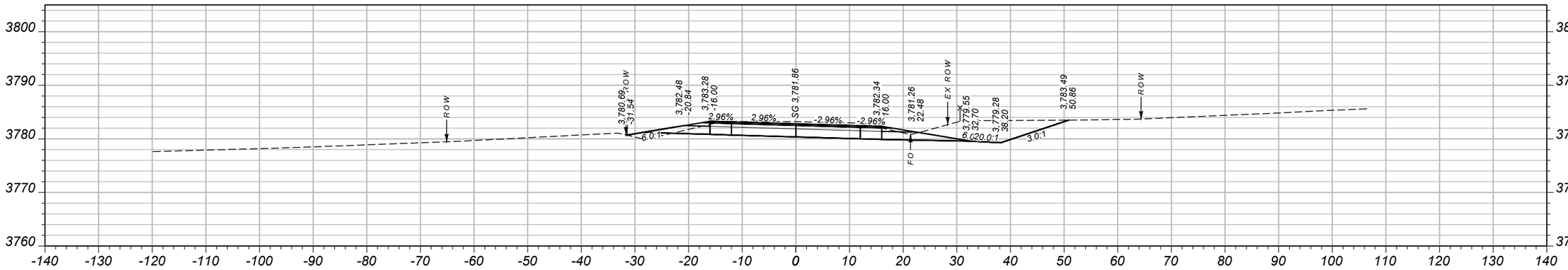
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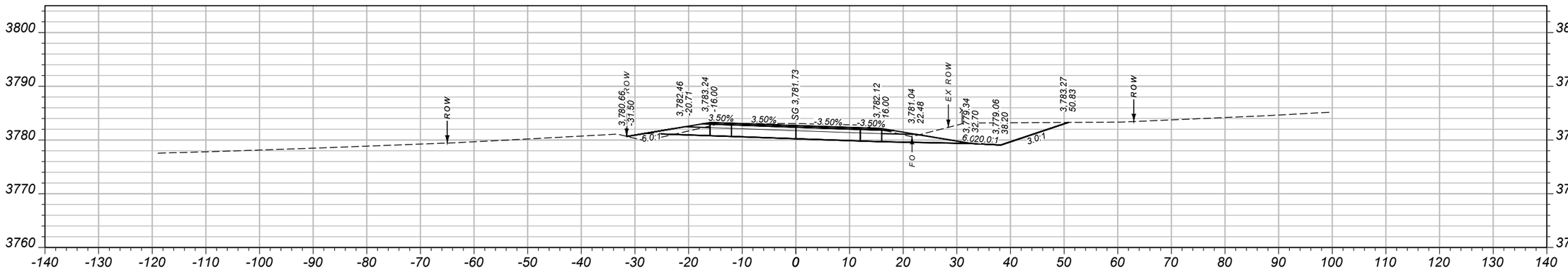
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CV: 149 CY STA 66+23.03 FV: 4 CY



CV: 85 CY STA 66+00.00 FV: 3 CY



CV: 77 CY STA 65+87.03 FV: 3 CY

SHEET NO.
96

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

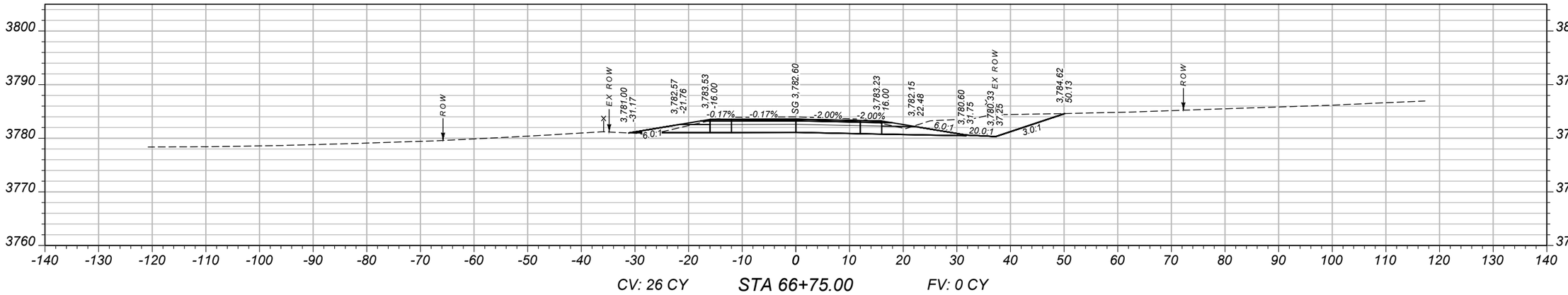
DESIGNED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. CERECK	
REVIEWED BY	02/2024	9116000RDXSF200.DWG	
J. BROTZLER			

MONTANA
Department of Transportation

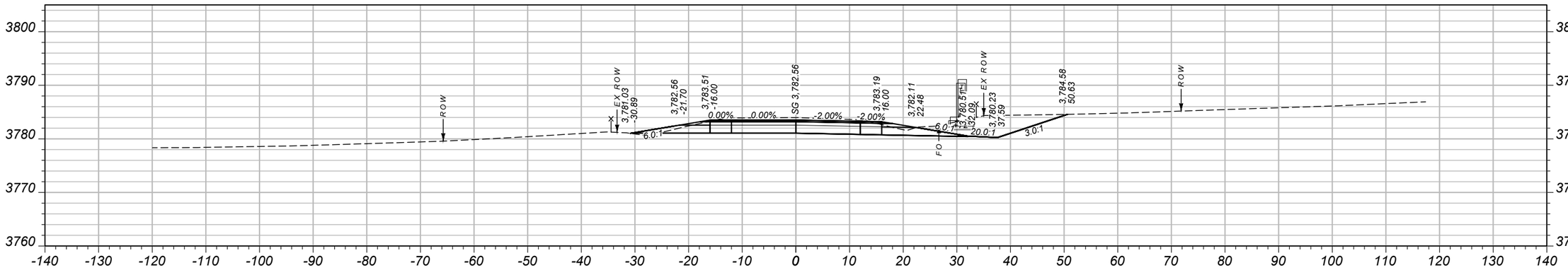
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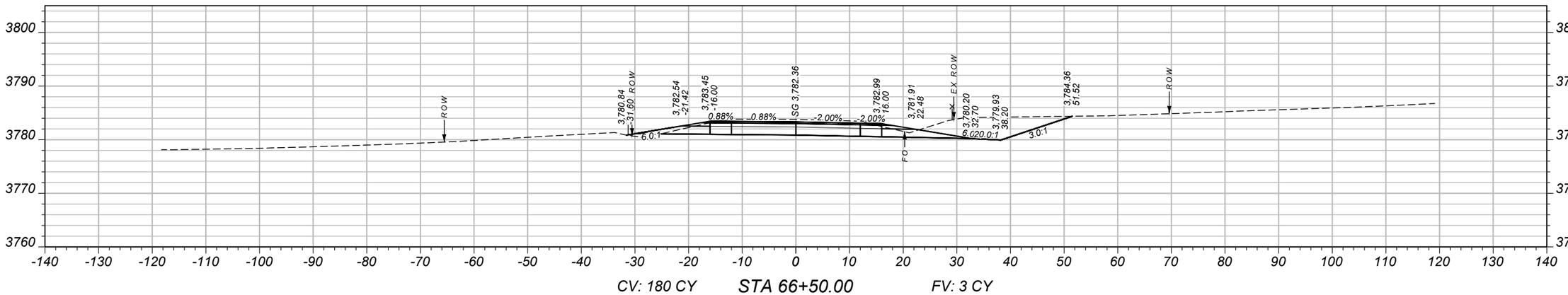
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CV: 26 CY STA 66+75.00 FV: 0 CY



CV: 142 CY STA 66+71.03 FV: 1 CY



CV: 180 CY STA 66+50.00 FV: 3 CY

SHEET NO.
97

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	02/2024	CHECKED BY	11/2024
B HENDERSON		J. CERECK	
REVIEWED BY	02/2024		
J. BROTZLER			

9116000RDXSF200.DWG

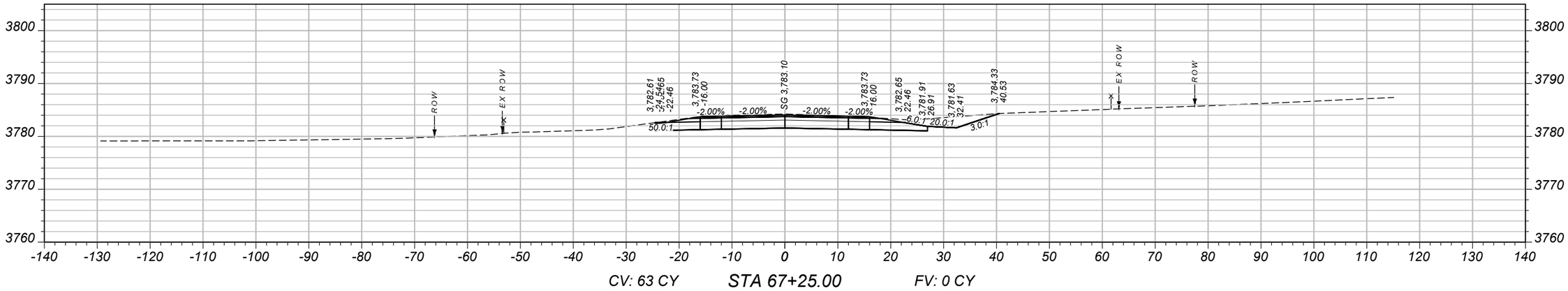
MONTANA
Department of Transportation

CROSS SECTIONS

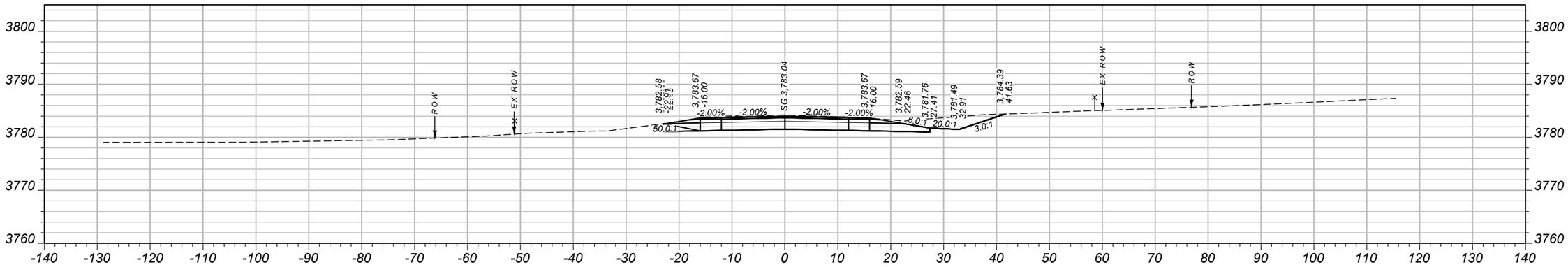
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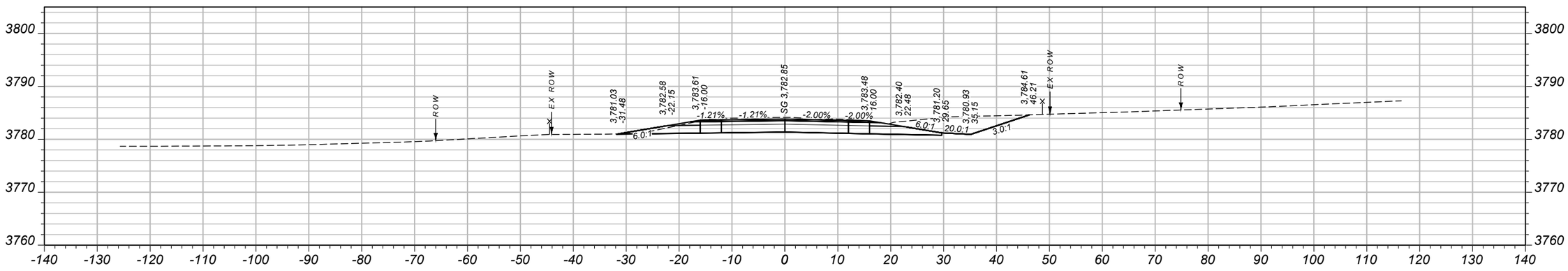
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CV: 63 CY STA 67+25.00 FV: 0 CY



CV: 110 CY STA 67+19.03 FV: 0 CY



CV: 162 CY STA 67+00.00 FV: 1 CY

SHEET NO.
98

CROSS SECTIONS

PROJECT NAME SF 159 SE COLUMBUS SHLDR WID
COUNTY STILLWATER COUNTY
PROJECT ID HSIP 421-1(13)5
UPN 9116000

DESIGNED BY	02/2024
B HENDERSON	
REVIEWED BY	02/2024
J. BROTZLER	
CHECKED BY	11/2024
J. CERECK	

9116000RDXSF200.DWG

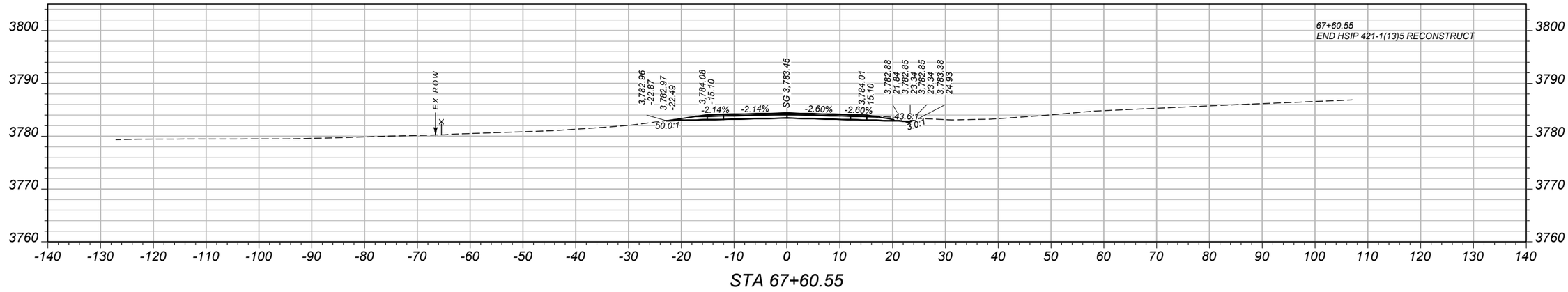
MONTANA
Department of Transportation

CROSS SECTIONS

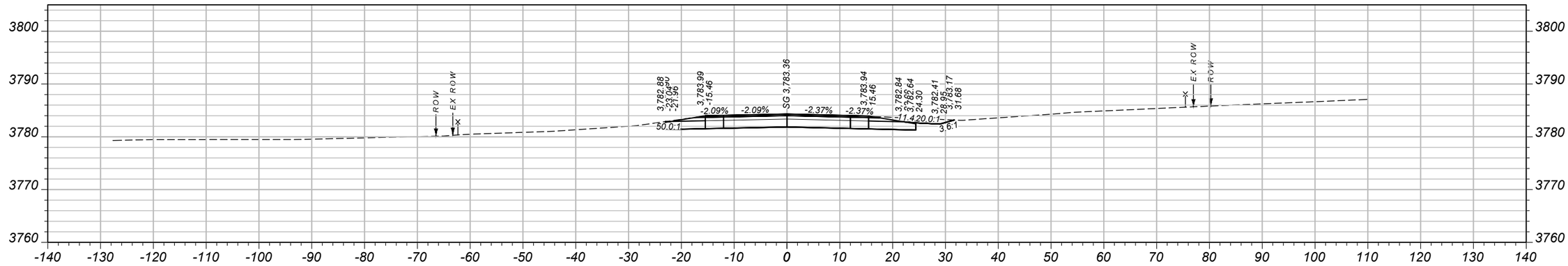
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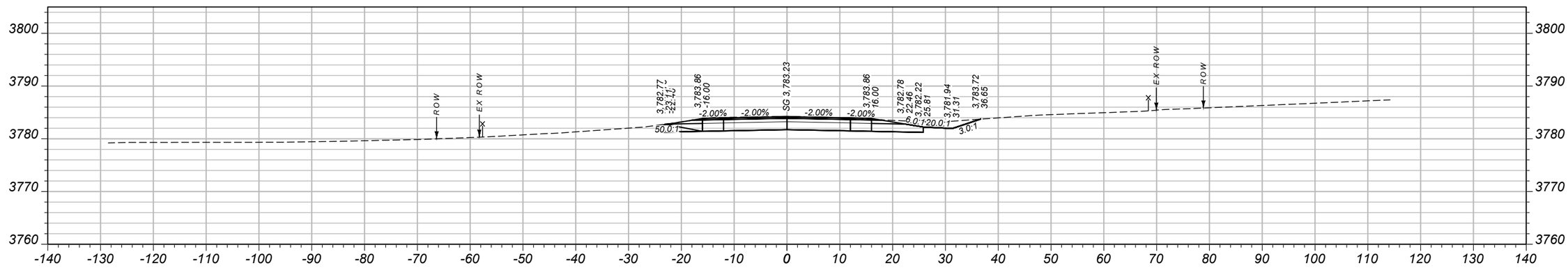
AWARD COPY



STA 67+60.55



CV: 26 CY STA 67+51.55 FV: 0 CY



STA 67+38.05

SHEET NO.
99

CROSS SECTIONS

PROJECT NAME: SF 159 SE COLUMBUS SHLDR WID
COUNTY: STILLWATER COUNTY
PROJECT ID: HSIP 421-1(13)5
UPN: 9116000

DESIGNED BY	B HENDERSON	02/2024
REVIEWED BY	J. BROTZLER	02/2024
CHECKED BY	J. CERECK	11/2024

9116000RDXSF200.DWG

MONTANA
Department of Transportation

CROSS SECTIONS

3/11/2025 4:46 PM