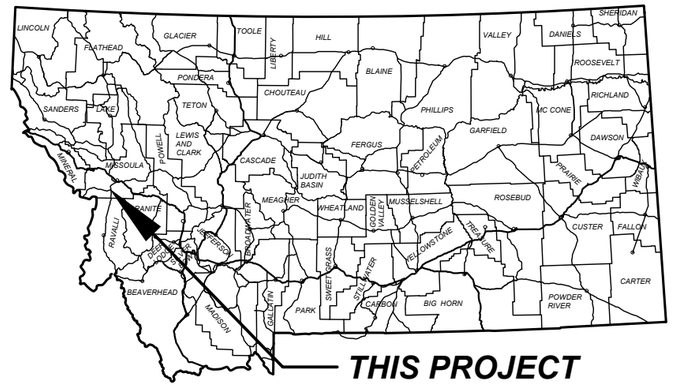
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT TA 32(119)

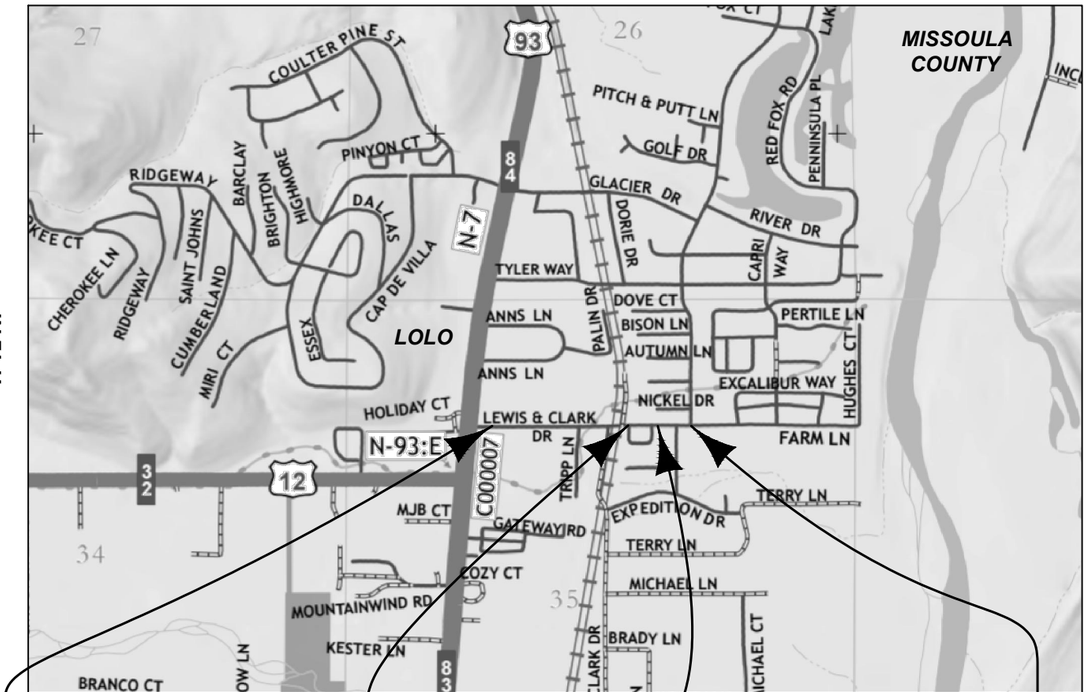
SIDEWALKS, PMS, ADA CURB RAMPS

SCHOOL SIDEWALKS - LOLO

MISSOULA COUNTY

LENGTH 0.3 MILES

R. 20 W.



ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	TA 32(118)

PLANS PREPARED BY

SANDERSON STEWART
Enduring Community Design
1300 North Transtech Way
Billings, Montana 59102
Phone: 406.656.5255
www.sandersonstewart.com

SANDERSON STEWART

APPROVED BY:

CONSULTANT DESIGN ENGINEER

DS

DRS

MONTANA DANIELLE SCHARF 14799PE LICENSED PROFESSIONAL ENGINEER

5/17/2024
DATE

MONTANA
DEPARTMENT OF TRANSPORTATION

DocuSigned by:
Kelly Williams
EF7F5DBAB5A7474...

5/17/2024
DATE

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY	KDE	02/14/24	
REVIEWED BY	DRS	02/14/24	
CHECKED BY	KBK	02/14/24	

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

SHEET NO. 1

TITLE

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TABLE OF CONTENTS

ROAD PLANS	SHEET NO.
TITLE SHEET	1
TABLE OF CONTENTS	2
NOTES	2-3
CENTERLINE COORDINATE TABLES	4
CONTROL DIAGRAM	5
TYPICAL SECTIONS	6-7
SUMMARIES	8-9
SURFACING	8
ADDITIONAL SURFACING	8
GRADING	8
ADDITIONAL GRADING	8
VALVE BOXES	8
CURB BOXES	8
SIDEWALK	9
CURB	9
STORM DRAIN STRUCTURE SCHEDULE	9
STORM DRAIN PIPE	9
PAVEMENT MARKINGS	9
MAILBOXES	9
REVEGETATION	9
PERMANENT EROSION CONTROL	9
MISCELLANEOUS ITEMS	9
FENCING	9
DETAILS	10-18
STORM DRAIN DETAILS	10
SIDEWALK DETAILS	11-18
PLAN & PROFILE	19-22
SEGMENT A	19-21
SEGMENT B	22

SIGNING PLANS	
SUMMARY	S1
SPECIFICATIONS	S2
DETAIL	S3
PLANS	S4-S12

CROSS SECTIONS	
SEGMENT A	1-25
SEGMENT B	26-31

NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
ASPHALT CEMENT - GRADE S - 1/2" AGG.	= 5.8% OF PL.MIX BIT.SURF.
HYDRATED LIME	= 1.4% OF PL.MIX BIT.SURF.
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK	= 0.05 GAL. PER SQ.YARD (UNDILUTED)

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.

DO NOT DISTURB

DO NOT DISTURB EXISTING VEGETATION BEYOND THE CONSTRUCTION LIMITS NECESSARY TO COMPLETE THE WORK.

CLEARING AND GRUBBING

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

SIDEWALK FACILITIES

CROSS SLOPE ON ALL SIDEWALK FACILITIES IS NOT TO EXCEED 2% MAXIMUM SLOPE.

LEGEND

NEW 6" SIDEWALK FACILITY

NEW 4" SIDEWALK FACILITY

PLANT MIX SAW-CUTS

SAW CUT ALL PLANT MIX CONNECTIONS TO A NEAT EDGE. PAYMENT FOR SAW CUTS IS INCLUDED IN THE UNIT BID PRICE FOR PLANT MIX SURFACING.

PLANT MIX SURFACING

PROVIDE NEW PLANT MIX SURFACING FOR AREAS AT LOCATIONS INDICATED IN THE PLANS. SEE ROADWAY SURFACING AND SAW CUT DETAIL.

NEW PLANT MIX ROAD FACILITY

NEW PLANT MIX PARKING LOT FACILITY

WETLANDS

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

EXISTING R/W

EXISTING R/W IS APPROXIMATED AND BASED ON A COMBINATION OF SECTION LINE INFORMATION, REPRESENTING THE CENTERLINE OF LEWIS AND CLARK DRIVE AND FARM LANE, AND FOUND EVIDENCE ALONG SAID LEWIS AND CLARK DRIVE AND FARM LANE, TOGETHER WITH INFORMATION PROVIDED ON THE FOLLOWING RECORDED PLATS, DEED EXHIBITS, DEEDS, EASEMENTS AND RELATED DOCUMENTS:

CERTIFICATE OF SURVEY NO. 12
CERTIFICATE OF SURVEY NO. 1123
CERTIFICATE OF SURVEY NO. 2392
CERTIFICATE OF SURVEY NO. 2859
CERTIFICATE OF SURVEY NO. 2940
CERTIFICATE OF SURVEY NO. 3319
CERTIFICATE OF SURVEY NO. 5507
CERTIFICATE OF SURVEY NO. 5934
DEED EXHIBIT NO. 2353
DEED EXHIBIT NO. 3096
ALLOTMENT ORCHARDS
ALLOTMENT ORCHARDS AMENDED BLOCK 2, LOT 3
AVALON MEADOWS PHASE 1
AVALON MEADOWS PHASES 2 & 3
EASEMENT UNDER BOOK 1056, PAGE 952
EAST MEADOWS SUBDIVISION
NORTHERN PACIFIC RAILWAY R/W PLAN, 075 MISSOULA TO FLORENCE
ORCHARD PARK, PHASES I AND II
QUITCLAIM DEED UNDER BOOK 1, PAGE 520
RIGHT-OF-WAY EASEMENT UNDER BOOK 160 MICRO, PAGE 2002
ROAD PETITION UNDER ROAD PLAT BOOK A, PAGE 24
ROSSIGNOL ORCHARD TRACTS II

SECTION LINES

SECTION LINES ARE APPROXIMATE AND GRAPHICAL REPRESENTATIONS ONLY.

MIISC. TO BE MOVED OR REMOVED BY OTHERS

ALL PRIVATELY OWNED SIGNS TO BE REMOVED BY OWNER

SHEET NO. 2

TABLE OF CONTENTS

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 101010000

CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	KDE	02/14/24	

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MONTANA Department of Transportation

ROAD PLANS

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SANDERSON STEWART

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NOTES

APPROACHES (For Information Only/ Incl in Additional Surfacing Frame)

STATION	TYPE	linear feet				DR. APP. RAMP STYLE	EXISTING SURFACING	PROPOSED SURFACING SECTION	tons	sq. yards	cubic yards	gallons	REMARKS
		WIDTH *	RADIUS #		LENGTH (CL TO R/W)				COMM. PL. MIX - 3/8" PG 58V-34 - MISC.	6" CONCRETE	CRUSHED AGG. COURSE	EMULSIFIED ASPHALT TACK **	
			LEFT	RIGHT									
SEGMENT A													
102+34	PRIVATE	35.0	10	10	10.7	PERP.	ASPHALT	A	12		40	7	
103+34	PRIVATE	34.0	10	10	10.6	PERP.	ASPHALT	A	12		39	7	
104+57	PRIVATE	34.0	10	10	10.4	PERP.	ASPHALT	A	12		38	7	
105+68	PRIVATE	35.0	10	10	10.2	PERP.	ASPHALT	A	13		42	7	
106+47	PRIVATE	24.0	%	%	14.1	PARA.	ASPHALT	A	6		13	4	
107+07	PRIVATE	16.0	%	%	14.1	PARA.	CONCRETE	B		21	2		
108+11	PRIVATE	16.0	%	%	13.9	PARA.	GRASS	C			4		
109+31	PRIVATE	16.0	%	%	13.7	PARA.	GRASS	C			4		
110+44	PRIVATE	16.0	%	%	13.6	PARA.	GRAVEL	C			4		
111+24	PUBLIC	16.0	%	%	-	PARA.	GRAVEL	C			4		TRIPP LANE
114+39	PUBLIC	24.0	25	25	-	PERP.	ASPHALT	A	26		68	14	LEWIS AND CLARK DRIVE
SEGMENT B													
201+43	PUBLIC	-	-	-	-	-	ASPHALT	-					EXPLORER DRIVE
SUBTOTAL	**PRIVATE**								**55**	**21**	**186**	**32**	
SUBTOTAL	**PUBLIC**								**26**	**0**	**72**	**14**	

APPROACHES

CONSTRUCT APPROACHES TO A 24' FINISHED TOP ON A 35' SUBGRADE UNLESS NOTED OTHERWISE IN THE PLANS.

CONSTRUCT APPROACHES TO THE WIDTHS SPECIFIED IN THE APPROACHES SUMMARY FRAME.

RESURFACE APPROACHES PER LIMITS SHOWN IN PLANS.

PROVIDE THE FOLLOWING SURFACING SECTIONS TO APPROACHES AS DENOTED IN THE SURFACING FRAME:

SURFACING SECTION A:

0.30' 3/8" PLANT MIX BITUMINOUS SURF.
1.30' CRUSHED AGGREGATE COURSE

SURFACING SECTION B:

6" CONCRETE/CONCRETE SIDEWALK
4" CRUSHED AGGREGATE COURSE

CONCRETE QUANTITY ONLY INCLUDES CONCRETE BEYOND THE LIMITS OF THE SIDEWALK.
SEE SIDEWALK SUMMARY FOR CONCRETE INCLUDED IN DRIVE APPROACH TO BACK OF SIDEWALK.

SURFACING SECTION C:

0.60' CRUSHED AGGREGATE COURSE

APPROACH SUMMARY FRAME FOOTNOTES:
UNLESS OTHERWISE NOTED UNDER PROPOSED SURFACE, SURFACE APPROACH TO CONSTRUCTION LIMITS USING THE NOTED APPROACH SURFACING SECTION.

* WIDTH IS DIMENSIONED FROM LIP OF CURB TO LIP OF CURB, WHERE APPLICABLE.

\# RADII ARE DIMENSIONED TO TOP BACK OF CURB, WHERE APPLICABLE.

** BASED ON 2 APPLICATIONS

% DRIVE APPROACH (SEE DETAILS)

SANDERSON STEWART

SHEET NO. 3

NOTES

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	DESIGNED BY	REVIEWED BY	CHECKED BY
	KDE	DRS	KBK
	02/14/24	02/14/24	02/14/24

MONTANA Department of Transportation

ROAD PLANS

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CENTERLINE COORDINATE TABLES

SEGMENT A ALIGNMENT COORDINATE TABLE				
STATION	DESCRIPTION	N OR Y COORDINATE	E OF X COORDINATE	REMARKS
100+00.00	POT	947,995.7295'	821,392.0924'	
100+15.00	POT	947,996.7111'	821,407.0602'	BEGIN SEGMENT A
100+28.32	PC	947,997.5825'	821,420.3473'	
100+32.93	PI	947,997.8850'	821,424.9602'	
100+37.53	PRC	947,999.0281'	821,429.4394'	
100+43.58	PI	948,000.5301'	821,435.3247'	
100+49.62	PT	948,000.5793'	821,441.3985'	
100+99.37	PI	948,000.9822'	821,491.1387'	Δ = 3°48'51" (RT.)
105+98.30	PI	947,971.8271'	821,989.2164'	Δ = 90°0'0" (LT.)
105+99.30	PC	947,972.8253'	821,989.2749'	
106+01.65	PI	947,975.8202'	821,989.4502'	
106+04.01	PT	947,975.6449'	821,992.4451'	
112+25.80	PC	947,939.3102'	822,613.1766'	
112+33.21	PI	947,938.8753'	822,620.6070'	
112+40.61	PT	947,936.6379'	822,627.7060'	
112+42.10	PC	947,936.1919'	822,629.1213'	
112+49.50	PI	947,933.9545'	822,636.2202'	
112+56.91	PT	947,933.5196'	822,643.6507'	
113+89.29	PC	947,925.7841'	822,775.8022'	
113+96.21	PI	947,925.3621'	822,783.0100'	
114+03.14	PT	947,920.4334'	822,788.2862'	
114+08.68	PC	947,916.6543'	822,792.3317'	
114+11.76	PI	947,914.4839'	822,794.6552'	
114+14.84	PT	947,914.0538'	822,797.8054'	
114+62.93	PC	947,907.5485'	822,845.4569'	
114+65.62	PI	947,907.1822'	822,848.1403'	
114+68.31	PT	947,907.5427'	822,850.8246'	
114+81.35	PC	947,909.2783'	822,863.7467'	
114+82.91	PI	947,909.4859'	822,865.2925'	
114+84.46	PT	947,909.4514'	822,866.8518'	
115+46.69	POT	947,908.0736'	822,929.0619'	END SEGMENT A
115+50.59	POT	947,907.9872'	822,932.9656'	

SEGMENT B ALIGNMENT COORDINATE TABLE				
STATION	DESCRIPTION	N OR Y COORDINATE	E OF X COORDINATE	REMARKS
200+00.00	POT	947,890.7995'	823,383.6155'	BEGIN SEGMENT B
200+03.61	PC	947,893.4861'	823,386.0320'	
200+05.85	PI	947,895.2713'	823,387.6377'	
200+08.09	PT	947,895.1342'	823,390.0349'	
200+79.19	PI	947,891.0744'	823,461.0169'	Δ = 10°40'56" (RT)
201+17.32	PI	947,881.8771'	823,498.0274'	Δ = 10°43'51" (LT)
201+69.55	PI	947,878.9391'	823,550.1732'	Δ = 7°09'16" (LT)
202+25.43	PI	947,882.7687'	823,605.9213'	Δ = 7°10'12" (RT)
203+05.61	POT	947,878.2434'	823,685.9664'	END SEGMENT B

SANDERSON STEWART

SHEET NO. 4

CENTERLINE COORDINATE TABLES

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	KDE
	02/14/24	02/14/24	02/14/24

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MONTANA Department of Transportation

ROAD PLANS

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CONTROL DIAGRAM

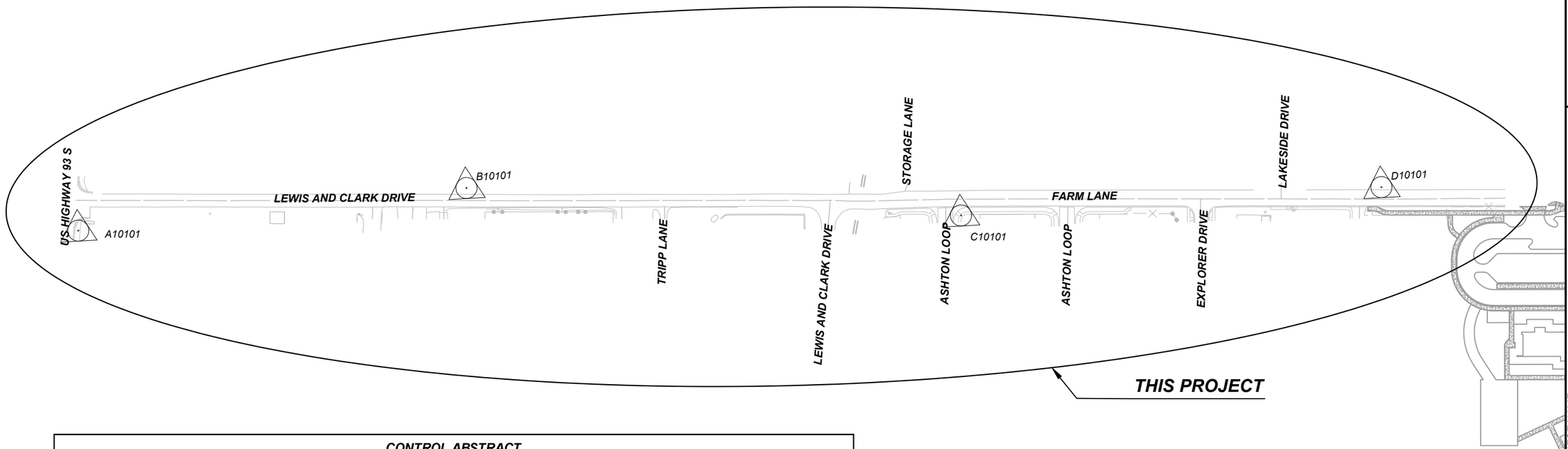
SCALE: 1" = 100'

NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2007/CORS. 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 0.99925202.

N

LOLO



CONTROL ABSTRACT				
POINT NAME/NUMBER	N OR Y COORDINATE INT. FT.	E OR X COORDINATE INT. FT.	POINT ELEVATION U.S. FT.	LOCATION AND DESCRIPTION
A10101	947,969.224	821,404.636	3,200.39	SET 1 INCH BRASS PLUG STAMPED A10101 LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF LEWIS & CLARK DR. AND US HWY. 93. POINT IS LOCATED 6.5 FEET EAST OF THE TOP BACK OF CURB, 7.3 FEET NORTH OF A WATER VALVE IN THE SIDEWALK, AND 10 FEET NORTHWEST OF A WOOD UTILITY POLE.
B10101	948,006.767	822,141.325	3,192.34	SET 5/8 INCH X 30 INCH REBAR WITH 2 INCH MDT ALUM CAP STAMPED B10101. FROM INTERSECTION OF U.S. HWY. 93 AND LEWIS & CLARK DR. GO EAST ALONG LEWIS & CLARK DR. APPROX. 750 FEET. POINT IS LOCATED 23.7 FEET NORTH OF LEWIS & CLARK DR. CENTERLINE, 14.1 FEET NORTHEAST OF A MAILBOX POST, AND 5.9 FEET SOUTH OF A FENCELINE. SET WITNESS POST 1 FOOT NORTH OF CONTROL MONUMENT.
C10101	947,900.478	823,070.796	3,185.49	SET 1 INCH BRASS PLUG STAMPED C10101 LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FARM LANE AND ASHTON LOOP (WEST ACCESS). POINT IS LOCATED 30.6 FEET SOUTH OF FARM LANE CENTERLINE, 30.1 FEET EAST OF ASHTON LOOP CENTERLINE AND 10.9 FEET NORTHEAST OF A STOP SIGN.
D10101	947,907.494	823,866.671	3,177.73	SET 5/8 INCH X 30 INCH REBAR WITH 2 INCH MDT ALUM CAP STAMPED D10101. FROM THE RAILROAD TRACKS CROSSING AT FARM LANE, GO EAST ALONG FARM LANE APPROX. 1,000 FEET. POINT IS LOCATED BETWEEN LAKESIDE DR. AND EXCALIBUR WAY, 3.3 FEET NORTH OF THE TOP BACK OF CURB, 7.5 FEET SOUTH OF A VINYL FENCELINE, 40.3 FEET SOUTHWEST OF A 16 INCH STUMP, AND 35 FEET SOUTHEAST OF A 14 INCH STUMP.

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83
HORIZONTAL DATUM - NAD83-2007/CORS

LEVEL DATUM SOURCE

NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID 09 AND HOLDING NGS BM 3185)

SANDERSON STEWART

SHEET NO. 5

CONTROL DIAGRAM

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	KDE	02/14/24

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MONTANA Department of Transportation

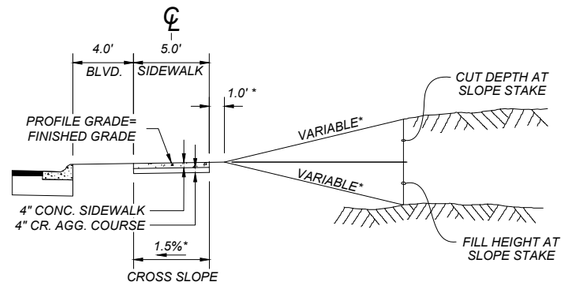
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TYPICAL SECTION NO. 1

SEGMENT A



* SEE CROSS SECTIONS

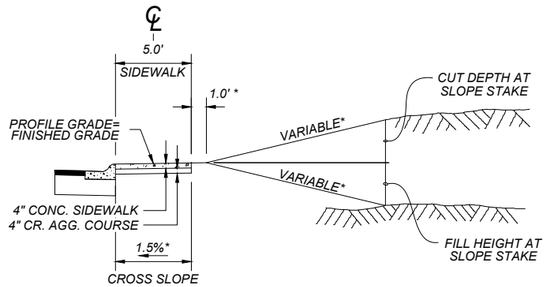
QUANTITIES CALCULATED FROM SURFACE AREA.

100+15.00 TO 100+52.00	SEE DETAILS
100+52.00 TO 102+02.75**	TYP. NO. 1
102+02.75 TO 102+65.75	SEE DETAILS
102+65.75 TO 103+02.80**	TYP. NO. 1
103+02.80 TO 103+65.80	SEE DETAILS
103+65.80 TO 104+26.09	TYP. NO. 1
104+26.09 TO 104+90.60	SEE DETAILS
104+90.60 TO 105+36.77**	TYP. NO. 1
105+36.77 TO 106+04.01	SEE DETAILS NEXT TYP. - TYP. NO. 2
112+56.91 TO 113+89.29**	TYP. NO. 1
113+89.29 TO 114+84.46	SEE DETAILS NEXT TYP. - TYP. NO. 3

** PARKING LOT RESURFACING. NO 1.0' BENCH.

TYPICAL SECTION NO. 2

SEGMENT A



* SEE CROSS SECTIONS

QUANTITIES CALCULATED FROM SURFACE AREA.

106+04.01 TO 112+25.80	TYP. NO. 2
112+25.80 TO 112+56.91	TRANS. TYP. NO. 2 TO TYP. NO. 1

SHEET NO. 6

TYPICAL SECTIONS

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	KDE
	02/14/24	02/14/24	02/14/24

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MONTANA Department of Transportation

ROAD PLANS

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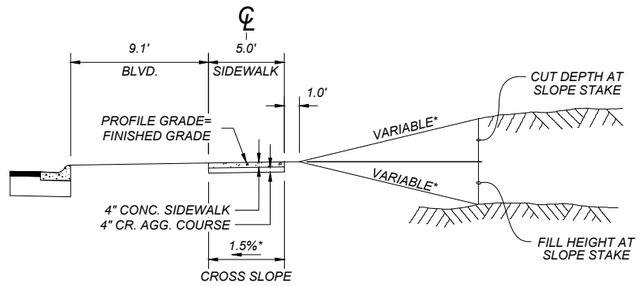
SANDERSON STEWART

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TYPICAL SECTION NO. 3

114+84.46 TO 115+41.67	TYP. NO. 3
115+41.67 TO 115+46.69	TRANS. TYP. NO. 3 TO EXISTING NEXT TYP. - TYP. NO. 4

SEGMENT A



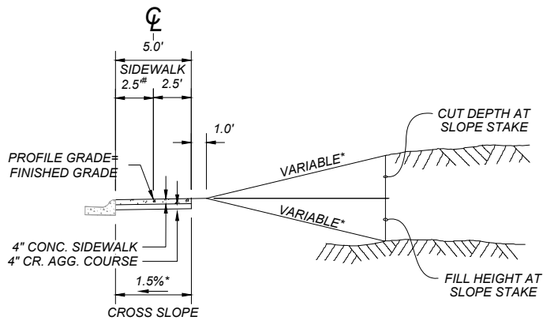
* SEE CROSS SECTIONS

QUANTITIES CALCULATED FROM SURFACE AREA.

TYPICAL SECTION NO. 4

200+00.00 TO 200+08.09	SEE DETAILS
200+08.09 TO 200+79.19	TYP. NO. 4
200+79.19 TO 201+17.32	SEE DETAILS
201+69.55 TO 202+25.43	SEE DETAILS
202+25.43 TO 203+00.61	TYP. NO. 4
203+00.61 TO 203+05.61	SEE DETAILS

SEGMENT B



* SEE CROSS SECTIONS

\# VARIES - MATCH WIDTH TO EXISTING TBC

QUANTITIES CALCULATED FROM SURFACE AREA.

SANDERSON STEWART

SHEET NO. 7

TYPICAL SECTIONS

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	KDE
	02/14/24	02/14/24	02/14/24

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MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE tons COMM. PL. MIX - 3/8" PG 58V-34 - MISC.	AGGREGATE cu. yards CRUSHED AGG. COURSE	sq. yards 6" CONCRETE	gals. EMULSIFIED ASPHALT TACK *	REMARKS
SEGMENT A											
100+00.00 RT.	100+12.26 RT.	12.26	12.26			RESURFACING - ROADWAY	58	159		36	QUANT. CALC. BY SURFACE AREA
100+06.14 LT.	113+93.94 LT.	1,387.80	1,387.80			RESURFACING - ROADWAY	15	199		10	QUANT. CALC. BY SURFACE AREA
100+24.88 RT.	102+16.75 RT.	191.87	191.87			RESURFACING - PARKING LOT	18	16		10	QUANT. CALC. BY SURFACE AREA
102+51.75 RT.	103+16.80 RT.	65.05	65.05			RESURFACING - PARKING LOT	9	7		5	QUANT. CALC. BY SURFACE AREA
103+50.80 RT.	104+40.09 RT.	89.29	89.29			RESURFACING - PARKING LOT	8	7		5	QUANT. CALC. BY SURFACE AREA
104+74.09 RT.	105+48.80 RT.	74.71	74.71			RESURFACING - PARKING LOT	10	8		6	QUANT. CALC. BY SURFACE AREA
114+78.51 LT.	115+48.00 LT.	69.49	69.49			RESURFACING - ROADWAY	3	14		2	QUANT. CALC. BY SURFACE AREA
						ADDITIONAL SURFACING	81	258	21	46	
TOTAL		~	~	~	~		**201**	**668**	**21**	**120**	

* BASED ON 2 APPLICATIONS

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE tons COMM. PL. MIX - 3/8" PG 58V-34 - MISC.	AGGREGATE cu. yards CRUSHED AGG. COURSE	sq. yards 6" CONCRETE	gals. EMULSIFIED ASPHALT TACK *	REMARKS
						9 - PRIVATE APPROACHES	55	186	21	32	
						2 - PUBLIC APPROACHES	26	72	0	14	
SUBTOTAL		~	~	~	~		**81**	**258**	**21**	**46**	

* BASED ON 2 APPLICATIONS

ADDITIONAL GRADING

STATION FROM	STATION TO	cu. yards INCL. IN ROADWAY UNCL. EXC.	cu. yards INCL. IN ROADWAY EMB.+ #	REMARKS
SEGMENT A				
102+34		35		PRIVATE APPROACH
103+34		35		PRIVATE APPROACH
104+57		30		PRIVATE APPROACH
105+68		35		PRIVATE APPROACH
106+47		15		PRIVATE APPROACH
107+07		5		PRIVATE APPROACH
108+11		5		PRIVATE APPROACH
109+31		5		PRIVATE APPROACH
110+44		5		PRIVATE APPROACH
111+24		5		PUBLIC APPROACH
114+39		75		PUBLIC APPROACH
TOTAL		~	~	

FOR INFORMATION ONLY

GRADING

STATION FROM	STATION TO	cu. yards UNCL. EXC.	cu. yards EXCESS EXC.	cu. yards EMB.+	REMARKS
SEGMENT A					
100+15.00	115+48.00	670		173	
SEGMENT B					
200+00.00	203+05.61	29		0	
TOTAL		**699**	**# 526**	**# 173**	

FOR INFORMATION ONLY

VALVE BOXES

STATION	each ADJUST WATER VALVE BOX* LEFT	each ADJUST WATER VALVE BOX* RIGHT	REMARKS
SEGMENT A			
100+35	1		9.5' LT.
SUBTOTAL	**1**	**0**	
TOTAL	**1**		

*FOR INFORMATION ONLY. ADJUSTED BY OTHERS.

CURB BOXES

STATION	each ADJUST WATER CURB BOX* LEFT	each ADJUST WATER CURB BOX* RIGHT	REMARKS
SEGMENT A			
105+98		1	2.3' RT.
SUBTOTAL	**0**	**1**	
TOTAL	**1**		

*FOR INFORMATION ONLY. ADJUSTED BY OTHERS.

SANDERSON STEWART

SHEET NO. 8

SUMMARY

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	

10101000RDSUMZ01.DWG

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

SIDEWALK

STATION FROM	STATION TO	sq. yards: CONCRETE SIDEWALK 4"	sq. yards: CONCRETE SIDEWALK 6"	sq. yards: DETECTABLE WARNING DEVICES TYPE 1	REMOVE SIDEWALK #	linear feet: WIDTH	REMARKS
SEGMENT A							
100+15.00	102+14.12	148.8		2.2	23.1	5.0	INCLUDES 2 CONC. ADA RAMPS AND EXTENSION
102+54.39	103+14.17	37.9		2.2		5.0	INCLUDES 2 CONC. ADA RAMPS
103+53.43	104+37.46	51.0		2.2		5.0	INCLUDES 2 CONC. ADA RAMPS
104+76.73	105+48.15	43.2		2.2		5.0	INCLUDES 2 CONC. ADA RAMPS
105+88.43	114+22.82	379.6	91.1	2.2		5.0	INCLUDES 2 CONC. ADA RAMPS AND 6 DRIVEWAYS
114+54.45	115+46.69	56.0		1.1		5.0	INCLUDES 1 CONC. ADA RAMP
SEGMENT B							
200+00.00	201+17.32	65.1			4.8	5.0	
201+69.55	203+05.61	75.6			16.9	5.0	
SUBTOTAL		857.2	91.1	12.1	44.8	~	
TOTAL		857.2	91.1	12.1	~	~	

FOR INFORMATION ONLY - INCLUDED IN THE COST OF UNCL. EXC.

CURB

STATION FROM	STATION TO	linear feet: CONCRETE CURB AND GUTTER LEFT	linear feet: CONCRETE CURB AND GUTTER RIGHT	linear feet: REMOVE CURB AND GUTTER # RIGHT	linear feet: MEDIAN CONCRETE CURB - TYPE A RIGHT	square yards: CONCRETE VALLEY GUTTER LEFT	square yards: CONCRETE VALLEY GUTTER RIGHT	REMARKS
SEGMENT A								
100+39.22	102+04.75	206.8	37.4	31.7				INCLUDE 30' & 10' RADIUS AND 2-EXTENSIONS
100+52.10	102+06.33				130.0			13 - 10' PRECAST SECTIONS
102+04.75	102+63.75					24.5	1.7	
102+63.75	103+04.80	66.9	18.6					INCLUDE 2 - 10' RADIUS AND 2-EXTENSIONS
103+04.80	103+62.80					24.2	1.7	
103+62.80	104+28.10	91.2	18.1					INCLUDE 2 - 10' RADIUS AND 2-EXTENSIONS
104+28.10	104+86.09					24.2	1.7	
104+86.09	105+38.80	78.5	15.0					INCLUDE 2 - 10' RADIUS AND 2-EXTENSIONS
105+38.80	106+02.31					24.5	1.7	
106+02.31	113+94.27	840.6	24.3					INCLUDE 10' & 25' RADIUS AND 2-EXTENSIONS
114+78.51	115+48.00	98.9	12.7					INCLUDE 25' RADIUS AND 1-EXTENSION
SUBTOTAL		1,382.9	126.1	31.7	130.0	97.4	6.8	
TOTAL		1,509.0		~	130.0	104.2		

FOR INFORMATION ONLY - INCLUDED IN THE COST OF UNCL. EXC.

STORM DRAIN STRUCTURE SCHEDULE

NAME	STATION	OFFSET	RT./LT.	each: REMOVE DROP INLET	each: MANHOLE BASE SPECIAL DESIGN * 48"	each: INLET CURB - SPECIAL DESIGN - 2' X 3' BOX	each: CURB INLET FRAME & GRATE TYPE B	each: DROP INLET FRAME& GRATE TYPE V	each: MANHOLE LID & FRAME	square yards: SUBSURFACE DRAINAGE GEOTEXTILE FILTER FABRIC HIGH SURV. NONWOVEN CLASS B **	cubic yards: OPEN GRADED GRANULAR BEDDING **	REMARKS
SEGMENT A												
I-1	100+52.00	7.29	LT.			1	1					
MH-1	100+52.00	0.50	RT.		1				1	3	43	
I-2	109+95.83	3.07	LT.			1	1					
MH-2	109+95.83	9.79	RT.		1			1		3	43	
	114+08.78	2.73	LT.	1								
I-3	114+25.18	8.97	RT.		1		1			3	43	
SUBTOTAL				1	3	2	3	1	1	9	129	
TOTAL				1	3	2	3	1	1	~	~	

SEE DETAIL SHEETS.
* SEE INLET DETAIL FOR SPECIAL DESIGN; STANDARD 8-FT DEPTH IS INCLUDED.
** FOR INFORMATION ONLY - INCLUDED IN THE COST OF MANHOLE BASE SPECIAL DESIGN.

STORM DRAIN PIPE

PIPE SECTION FROM	PIPE SECTION TO	linear feet: STORM DRAIN PIPE - PVC 12"	REMARKS
I-1	MH-1	7.8	
I-2	MH-2	12.3	
SUBTOTAL		20.1	
TOTAL		20.1	

PAVEMENT MARKINGS

ITEM	UNIT	FINAL APPLICATION	TOTAL
STRIPING - WHITE EPOXY	gallon	1	1
WORDS & SYMBOLS - WHITE EPOXY	gallon	16	16
CURB MARKINGS - YELLOW EPOXY	gallon	1	1
REMOVE PAVEMENT MARKINGS	linear feet		301

MAILBOXES

STATION	each: MAILBOXES	REMARKS
SEGMENT A		
106+95	1	6.3' RT.
TOTAL	1	

REVEGETATION

STATION FROM	STATION TO	cu. yards: TOPSOIL	lump sum: REVEGETATION	square yards: SODDING #	acres: SEED * NO. 1	acres: FERTILIZER *	REMARKS
SEGMENT A							
100+30.68	102+09.13	9			0.1	0.1	
102+58.72	103+07.97	3			0.1	0.1	
103+58.20	104+32.82	4			0.1	0.1	
104+82.48	105+43.09	3			0.1	0.1	
105+87.81	114+24.60	64		241	0.1	0.1	
114+52.60	115+48.00	12			0.1	0.1	
SEGMENT B							
200+00.00	201+17.32	6		52			
SUBTOTAL		101	1	293	0.6	0.6	
TOTAL		101	1	293	~	~	

PLACE SOD WHERE ESTABLISHED LAWNS ARE PRESENT.
* FOR INFORMATION ONLY - PAID FOR AS REVEGETATION.

PERMANENT EROSION CONTROL

STATION FROM	STATION TO	square yards: EROSION CONTROL BLANKET LONG TERM	REMARKS
SEGMENT A			
114+21.60 RT.		5.6	
114+55.60 RT.		6.3	
TOTAL		11.9	

MISCELLANEOUS ITEMS

STATION FROM	STATION TO	lump sum: LANDSCAPING	REMARKS
SEGMENT A			
103+76.79 RT.	104+04.47 RT.	1	RESET LANDSCAPING BOX IN FRONT OF POST OFFICE
TOTAL		1	

FENCING

STATION FROM	STATION TO	linear feet: RESET FENCE	linear feet: REMOVE FENCE	each: RESET GATE	REMARKS
105+88.97	105+89.22		8		RT.
107+85.94	108+61.57	60		1	RT.
108+61.57	110+27.81	137		2	RT.
115+43.71	115+46.69	3			RT.
TOTAL		200	8	3	

SANDERSON STEWART

SHEET NO. 9

SUMMARY

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 101010000

CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	10101000RDSUMZ01.DWG

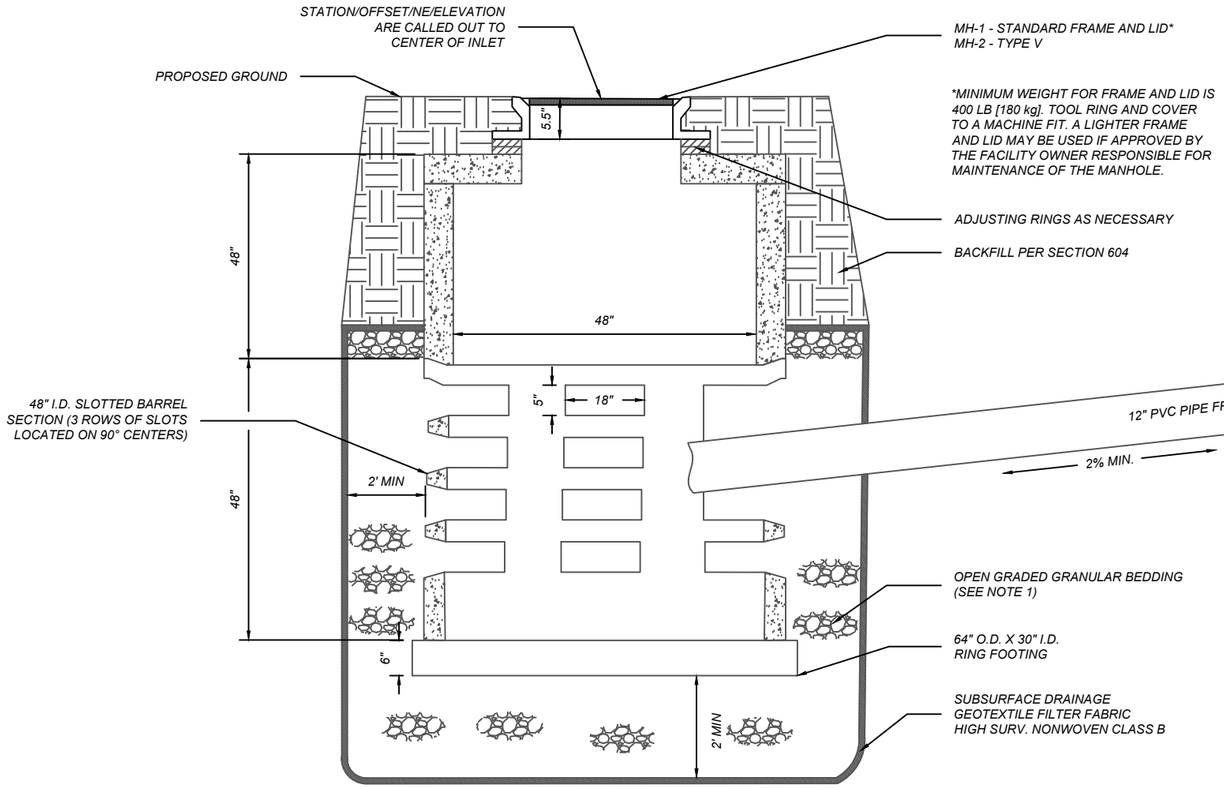
MONTANA Department of Transportation

ROAD PLANS

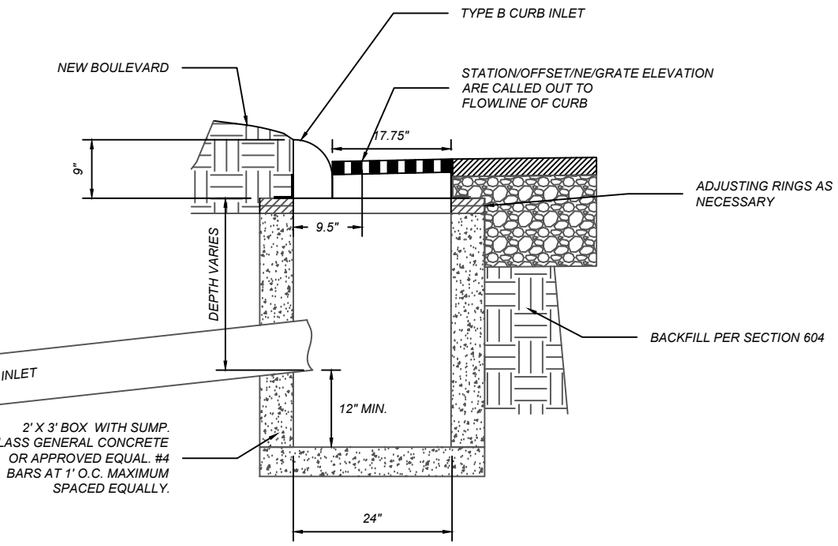
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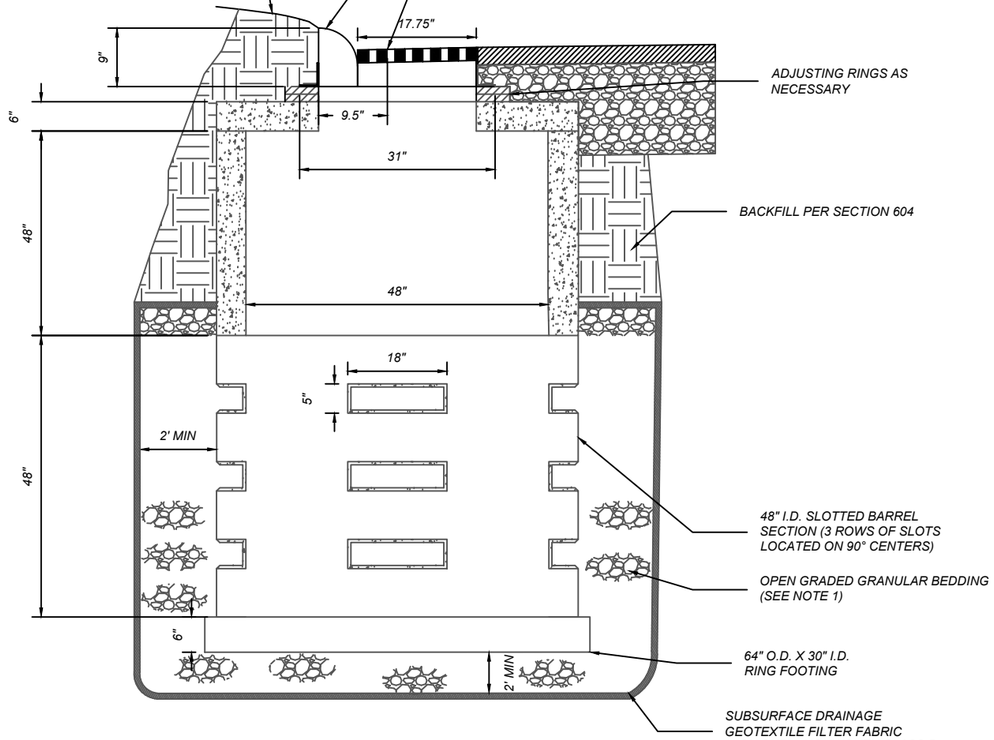
INLETS 1 & 2 DETAIL
NOT TO SCALE



STRUCTURE TABLE						
NAME	INLET TYPE	STATION	OFFSET	N OR Y COORDINATE	E OR X COORDINATE	RIM/GRATE ELEVATION
I-1	TYPE B INLET	100+52.00	LT.	948,007.89	821,443.72	3199.40
I-2	TYPE B INLET	109+95.83	LT.	947,955.82	822,383.78	3191.68
I-3	TYPE B INLET	114+25.18	RT.	947,903.77	822,806.84	3188.10
MH-1	48" SPECIAL DESIGN MANHOLE	100+52.00	RT.	948,000.10	821,443.78	3199.98
MH-2	48" SPECIAL DESIGN MANHOLE	109+95.83	RT.	947,943.52	822,383.05	3191.15

PIPE TABLE					
PIPE NAME	PIPE STRUCTURE	SIZE	CENTER TO CENTER LENGTH (FT)	EDGE TO EDGE LENGTH (FT)	SLOPE
PIPE 1	I-1 TO MH-1	12" PVC	7.79'	4.79'	0.0200 FT/FT
PIPE 2	I-2 TO MH-2	12" PVC	12.32'	9.32'	0.0200 FT/FT

NOTES:
1. USE 3" - 8" WASHED DRAIN ROCK.



INLET 3 DETAIL
NOT TO SCALE

SANDERSON STEWART

SHEET NO. 10

STORM DRAIN DETAIL

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	TRT
	02/14/24	02/14/24	02/14/24

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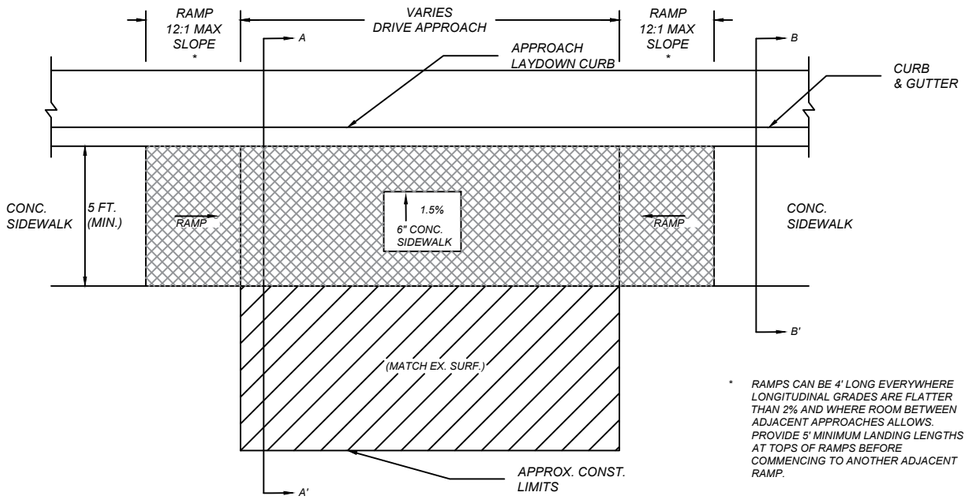
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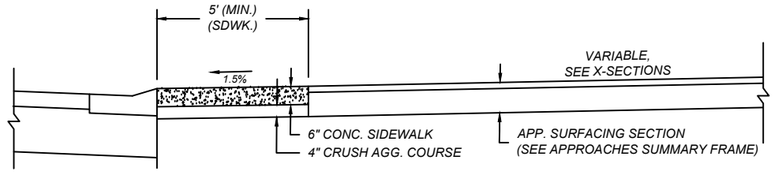


* RAMPS CAN BE 4' LONG EVERYWHERE LONGITUDINAL GRADES ARE FLATTER THAN 2% AND WHERE ROOM BETWEEN ADJACENT APPROACHES ALLOWS. PROVIDE 5' MINIMUM LANDING LENGTHS AT TOPS OF RAMPS BEFORE COMMENCING TO ANOTHER ADJACENT RAMP.

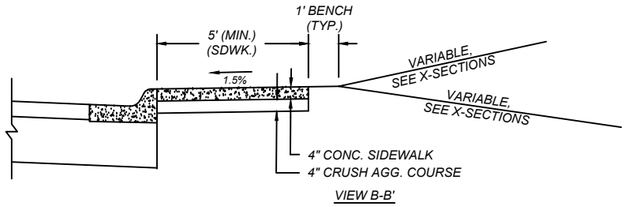
PARALLEL RAMP DRIVEWAY DETAIL

QUANTITIES INCLUDED IN SIDEWALK SUMMARY FRAME AS 6" CONC. SIDEWALK

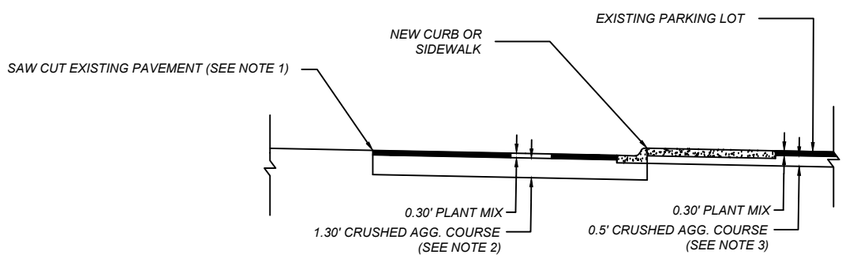
QUANTITIES INCLUDED IN APPROACH/ADDITIONAL SURFACING SUMMARY FRAMES



VIEW A-A'



VIEW B-B'



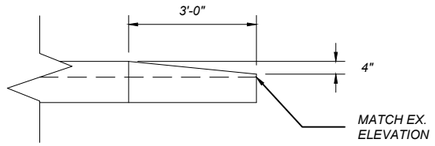
ROADWAY SURFACING AND SAW CUT DETAIL

NOTES

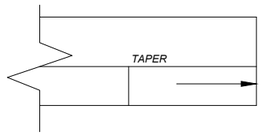
1. SAW CUT EXISTING PAVEMENT 2' MINIMUM BEYOND EXISTING EDGE OF PAVEMENT (CUT ADDITIONAL PAVEMENT IF NEEDED TO ENSURE POSITIVE DRAINAGE) OR AS INDICATED ELSEWHERE IN THE PLANS.

2. USE SURFACING SECTION FOR ALL LOCATIONS OF NEW PAVEMENT IN THE ROADWAY OR ROADWAY SHOULDER. QUANTITIES ARE INCLUDED IN THE SURFACING FRAME.

3. USE SURFACING SECTION FOR LOCATIONS OF NEW PAVEMENT IN PRIVATE PARKING LOTS. SEE SURFACING SUMMARY FRAME.



ELEVATION VIEW



PLAN VIEW

CURB TERMINAL END DETAIL

SANDERSON STEWART

SHEET NO. 11

DRIVE APPROACH DETAILS

PROJECT NAME SCHOOL SIDEWALKS - LOLO

COUNTY MISSOULA COUNTY

PROJECT ID TA 32(119)

UPN 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	KMR
	02/14/24	02/14/24	02/14/24

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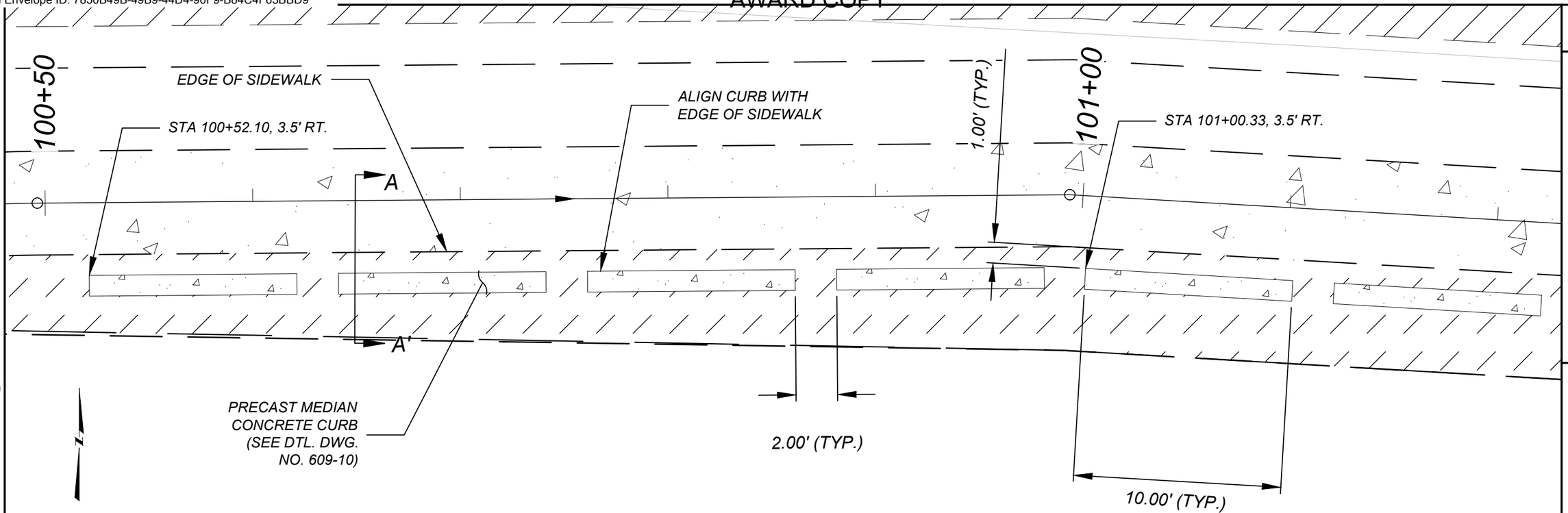
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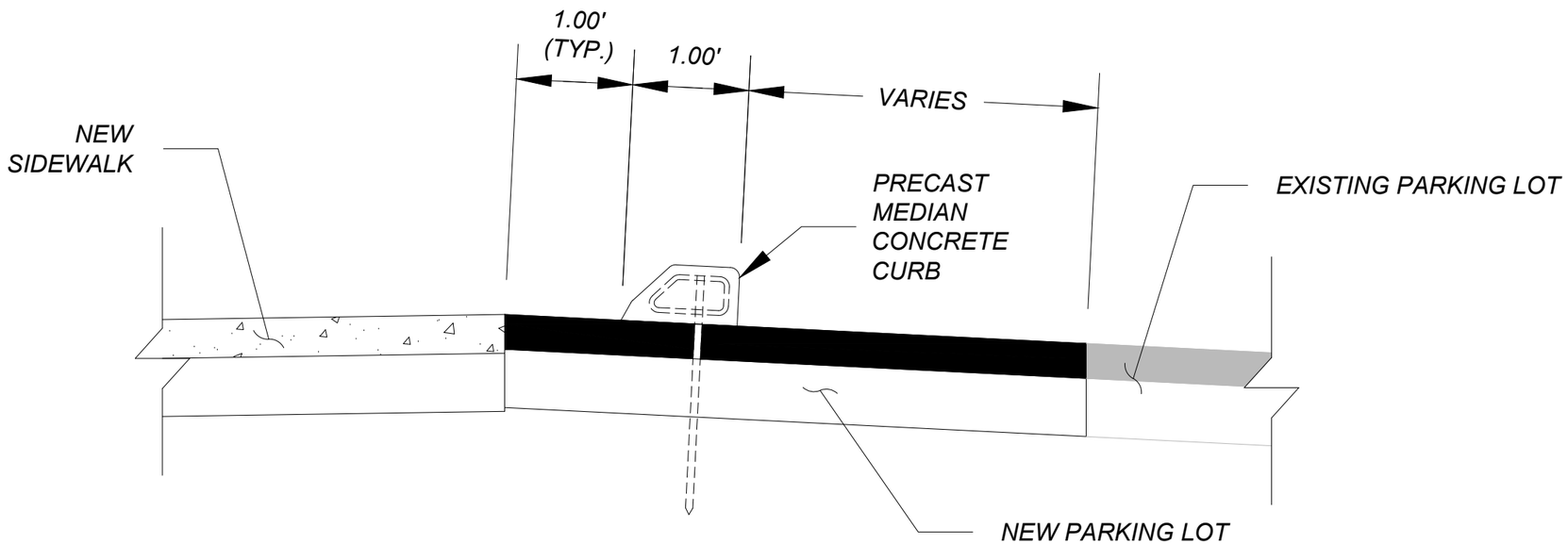
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SECTION A - A'

NOT TO SCALE

SANDERSON STEWART

SHEET NO. 12

PARKING BLOCK DETAIL

PROJECT NAME	SCHOOL SIDEWALKS - LOLO		
COUNTY	MISSOULA COUNTY		
PROJECT ID	TA 32(119)		
UPN	1010100000		
CHECKED BY	KBK	12/22/23	
REVIEWED BY	DRS	12/22/23	
DESIGNED BY	RRB	12/22/23	

MONTANA Department of Transportation

ROAD PLANS

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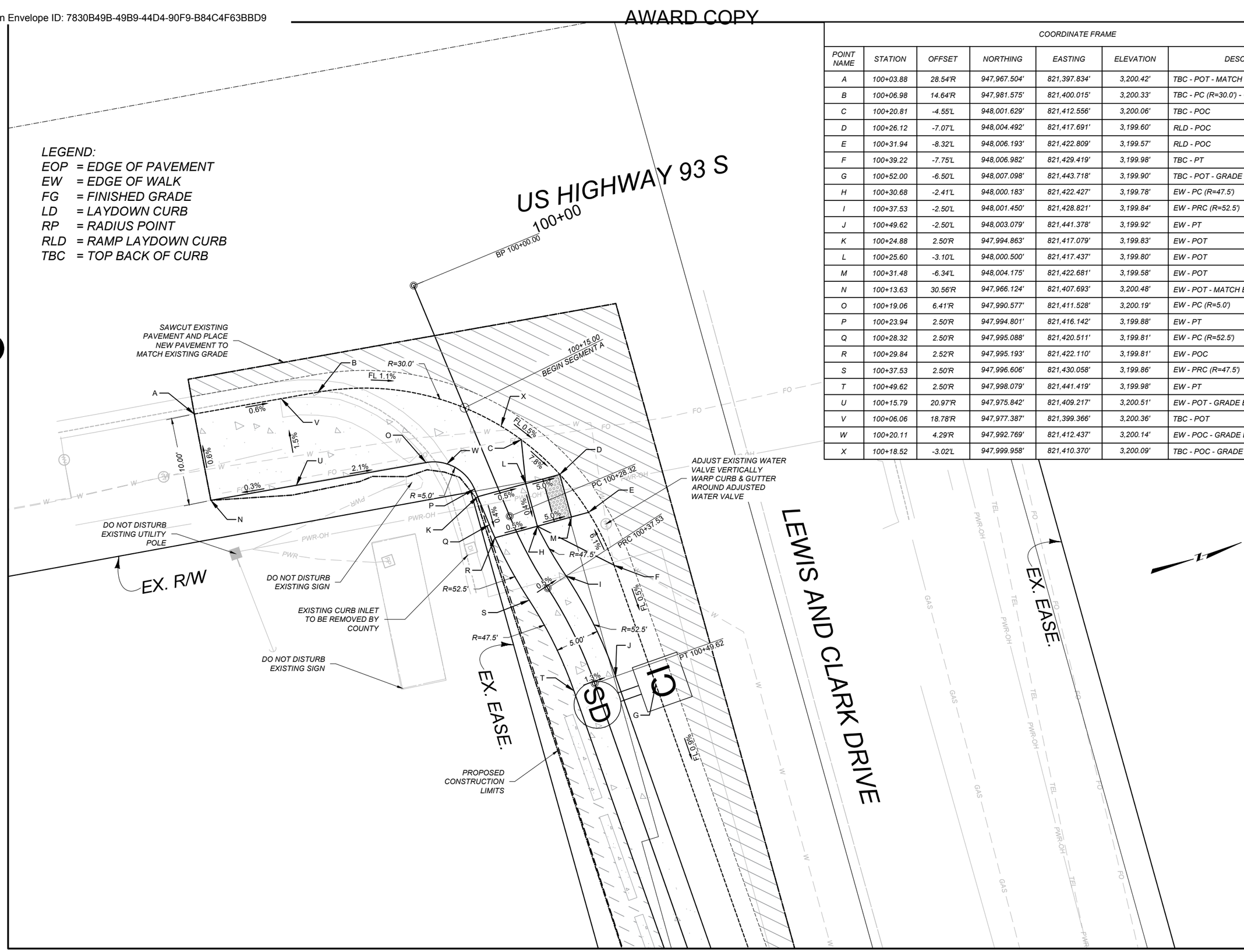
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SANDERSON STEWART

LEGEND:
EOP = EDGE OF PAVEMENT
EW = EDGE OF WALK
FG = FINISHED GRADE
LD = LAYDOWN CURB
RP = RADIUS POINT
RLD = RAMP LAYDOWN CURB
TBC = TOP BACK OF CURB



COORDINATE FRAME

POINT NAME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	100+03.88	28.54'R	947,967.504'	821,397.834'	3,200.42'	TBC - POT - MATCH EX. ELEV.
B	100+06.98	14.64'R	947,981.575'	821,400.015'	3,200.33'	TBC - PC (R=30.0') - GRADE BREAK
C	100+20.81	-4.55'L	948,001.629'	821,412.556'	3,200.06'	TBC - POC
D	100+26.12	-7.07'L	948,004.492'	821,417.691'	3,199.60'	RLD - POC
E	100+31.94	-8.32'L	948,006.193'	821,422.809'	3,199.57'	RLD - POC
F	100+39.22	-7.75'L	948,006.982'	821,429.419'	3,199.98'	TBC - PT
G	100+52.00	-6.50'L	948,007.098'	821,443.718'	3,199.90'	TBC - POT - GRADE BREAK
H	100+30.68	-2.41'L	948,000.183'	821,422.427'	3,199.78'	EW - PC (R=47.5')
I	100+37.53	-2.50'L	948,001.450'	821,428.821'	3,199.84'	EW - PRC (R=52.5')
J	100+49.62	-2.50'L	948,003.079'	821,441.378'	3,199.92'	EW - PT
K	100+24.88	2.50'R	947,994.863'	821,417.079'	3,199.83'	EW - POT
L	100+25.60	-3.10'L	948,000.500'	821,417.437'	3,199.80'	EW - POT
M	100+31.48	-6.34'L	948,004.175'	821,422.681'	3,199.58'	EW - POT
N	100+13.63	30.56'R	947,966.124'	821,407.693'	3,200.48'	EW - POT - MATCH EX. ELEV.
O	100+19.06	6.41'R	947,990.577'	821,411.528'	3,200.19'	EW - PC (R=5.0')
P	100+23.94	2.50'R	947,994.801'	821,416.142'	3,199.88'	EW - PT
Q	100+28.32	2.50'R	947,995.088'	821,420.511'	3,199.81'	EW - PC (R=52.5')
R	100+29.84	2.52'R	947,995.193'	821,422.110'	3,199.81'	EW - POC
S	100+37.53	2.50'R	947,996.606'	821,430.058'	3,199.86'	EW - PRC (R=47.5')
T	100+49.62	2.50'R	947,998.079'	821,441.419'	3,199.98'	EW - PT
U	100+15.79	20.97'R	947,975.842'	821,409.217'	3,200.51'	EW - POT - GRADE BREAK
V	100+06.06	18.78'R	947,977.387'	821,399.366'	3,200.36'	TBC - POT
W	100+20.11	4.29'R	947,992.769'	821,412.437'	3,200.14'	EW - POC - GRADE BREAK
X	100+18.52	-3.02'L	947,999.958'	821,410.370'	3,200.09'	TBC - POC - GRADE BREAK

SHEET NO. 13

HIGHWAY 93 SIDEWALK DETAIL (1" = 5')

PROJECT NAME ***SCHOOL SIDEWALKS - LOLO***
COUNTY ***MISSOULA COUNTY***
PROJECT ID ***TA 32(119)***
UPN ***10101000***

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

10101000RDDETZ03.DWG

MONTANA *Department of Transportation*

ROAD PLANS

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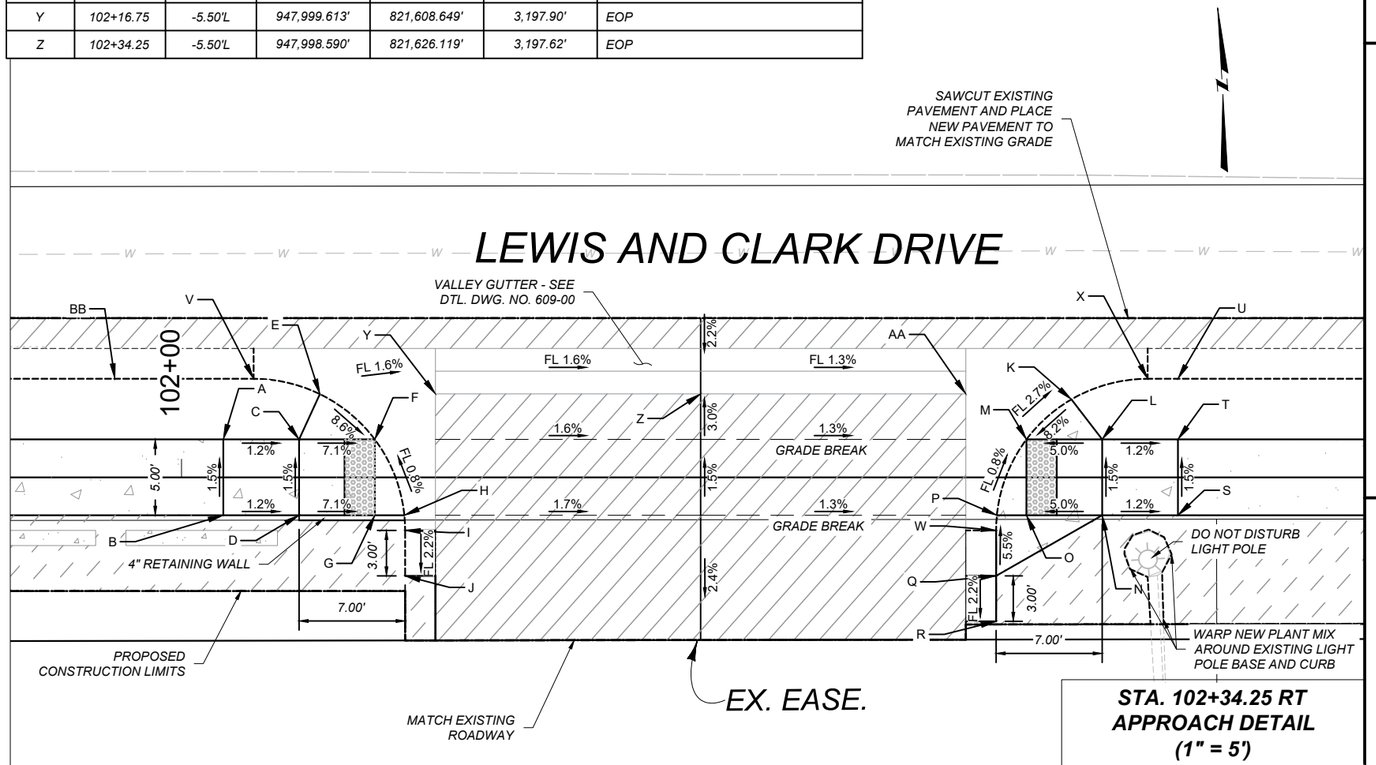
COORDINATE FRAME

POINT NAME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	102+02.75	-2.50'L	947,997.436'	821,594.497'	3,198.46'	EW - POT
AA	102+51.75	-5.50'L	947,997.568'	821,643.589'	3,197.40'	EOP
B	102+02.75	2.50'R	947,992.445'	821,594.205'	3,198.54'	EW - POT
BB	101+95.60	-6.50'L	948,001.848'	821,587.586'	3,198.63'	TBC - GRADE BREAK
C	102+07.75	-2.50'L	947,997.144'	821,599.489'	3,198.40'	EW - POT
D	102+07.75	2.50'R	947,992.153'	821,599.196'	3,198.48'	EW - POT
E	102+09.13	-5.49'L	948,000.052'	821,601.034'	3,198.46'	TBC - POC
F	102+12.75	-2.50'L	947,996.852'	821,604.480'	3,198.05'	RLD - POC
G	102+12.75	2.50'R	947,991.861'	821,604.188'	3,198.12'	EW - POT
H	102+14.70	2.50'R	947,991.747'	821,606.134'	3,198.09'	RLD - POC - TOW ELEV. = 3198.43'
I	102+14.75	3.50'R	947,990.745'	821,606.126'	3,198.51'	TBC - PT
J	102+14.75	6.50'R	947,987.751'	821,605.951'	3,197.93'	TBC - POT - MATCH EX. ELEV.
K	102+58.72	-5.14'L	947,996.803'	821,650.524'	3,197.86'	TBC - POC
L	102+60.75	-2.50'L	947,994.047'	821,652.398'	3,197.78'	EW - POT
M	102+55.75	-2.50'L	947,994.339'	821,647.407'	3,197.53'	RLD - POC
N	102+60.75	2.50'R	947,989.056'	821,652.106'	3,197.85'	EW - POT
O	102+55.75	2.50'R	947,989.348'	821,647.114'	3,197.60'	EW - POT
P	102+53.80	2.50'R	947,989.462'	821,645.168'	3,197.57'	RLD - POC
Q	102+53.75	6.50'R	947,985.472'	821,644.884'	3,197.79'	TBC - POT - 4" HEIGHT CURB
R	102+53.75	9.50'R	947,982.477'	821,644.709'	3,197.40'	TBC - POT - MATCH EX. ELEV.
S	102+65.75	2.50'R	947,988.763'	821,657.097'	3,197.79'	EW - POT
T	102+65.75	-2.50'L	947,993.755'	821,657.390'	3,197.72'	EW - POT
U	102+65.75	-6.50'L	947,997.748'	821,657.623'	3,197.69'	TBC - POT
V	102+04.75	-6.50'L	948,001.313'	821,596.728'	3,198.52'	TBC - PC (R=10.0')
W	102+53.75	3.50'R	947,988.466'	821,645.059'	3,197.63'	TBC - PC (R=10.0')

COORDINATE FRAME

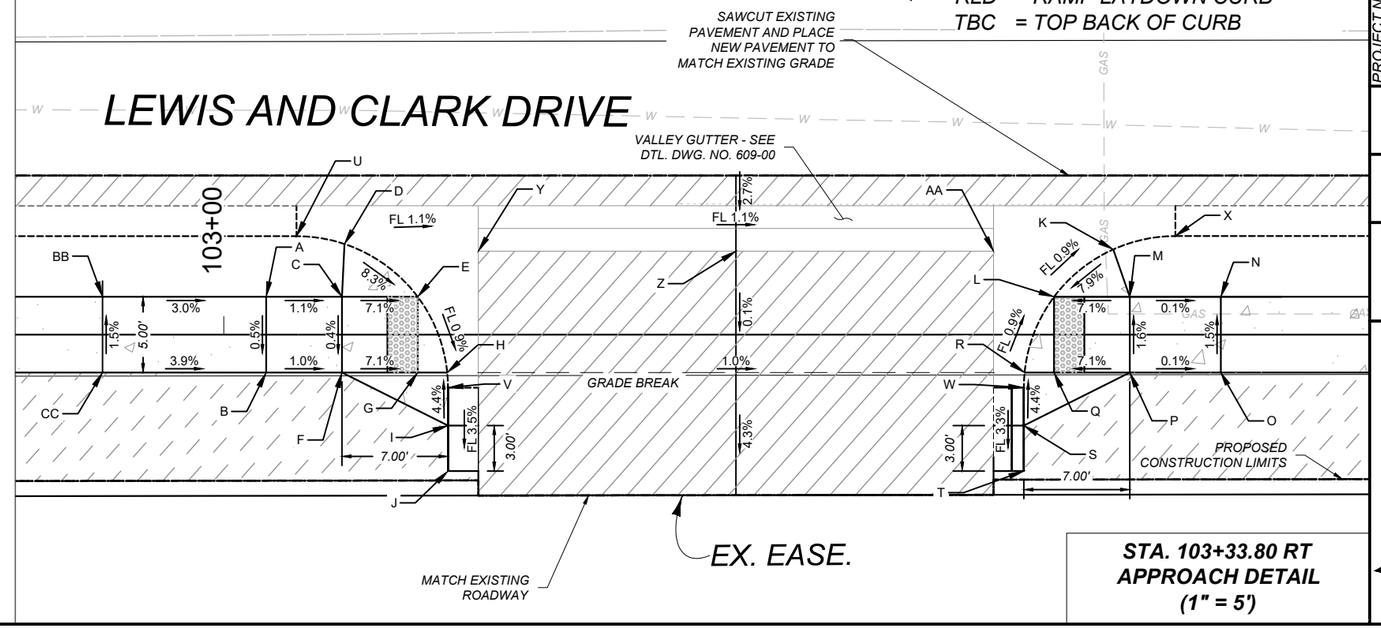
POINT NAME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	103+02.80	-2.50'L	947,991.590'	821,694.370'	3,197.02'	EW - POT
AA	103+50.80	-5.51'L	947,991.786'	821,742.464'	3,196.21'	EOP
B	103+02.80	2.50'R	947,986.599'	821,694.078'	3,197.00'	EW - POT
BB	102+92.00	-2.50'L	947,992.221'	821,683.590'	0.00'	EW - POT
C	103+07.80	-2.50'L	947,991.298'	821,699.361'	3,196.97'	EW - POT
CC	102+92.00	2.50'R	947,987.230'	821,683.298'	0.00'	EW - POT
D	103+07.97	-5.99'L	947,994.767'	821,699.733'	3,197.11'	TBC- POC
E	103+12.80	-2.50'L	947,991.006'	821,704.353'	3,196.61'	RLD - POC
F	103+07.80	2.50'R	947,986.307'	821,699.069'	3,196.95'	EW - POT
G	103+12.80	2.50'R	947,986.014'	821,704.061'	3,196.59'	EW - POT
H	103+14.75	2.50'R	947,985.900'	821,706.007'	3,196.56'	RLD - POC
I	103+14.80	6.00'R	947,982.404'	821,705.853'	3,196.72'	TBC - POT - 4" HEIGHT CURB
J	103+14.80	9.00'R	947,979.409'	821,705.679'	3,196.35'	TBC - POT - MATCH EX. ELEV.
K	103+58.70	-5.63'L	947,991.444'	821,750.356'	3,196.57'	TBC- POC
L	103+54.79	-2.50'L	947,988.552'	821,746.277'	3,196.18'	RLD - POC
M	103+59.79	-2.50'L	947,988.260'	821,751.269'	3,196.53'	EW - POT
N	103+65.80	-2.50'L	947,987.909'	821,757.262'	3,196.53'	EW - POT
O	103+65.80	2.50'R	947,982.917'	821,756.970'	3,196.60'	EW - POT
P	103+59.79	2.50'R	947,983.268'	821,750.976'	3,196.61'	EW - POT
Q	103+54.79	2.50'R	947,983.560'	821,745.985'	3,196.25'	EW - POT
R	103+52.85	2.50'R	947,983.674'	821,744.042'	3,196.23'	RLD - POC
S	103+52.80	6.00'R	947,980.183'	821,743.788'	3,196.38'	TBC - POT - 4" HEIGHT CURB
T	103+52.80	9.00'R	947,977.189'	821,743.613'	3,195.99'	TBC - POT - MATCH EX. ELEV.
U	103+04.80	-6.50'L	947,995.467'	821,696.600'	3,197.15'	TBC - PC (R=10.0')
V	103+14.80	3.50'R	947,984.899'	821,705.999'	3,196.61'	TBC - PT
W	103+52.80	3.49'R	947,982.684'	821,743.934'	3,196.27'	TBC - PC (R=10.0')
X	103+62.80	-6.51'L	947,992.083'	821,754.502'	3,196.53'	TBC - PT
Y	103+16.80	-5.51'L	947,993.773'	821,708.522'	3,196.57'	EOP
Z	103+33.80	-5.51'L	947,992.779'	821,725.493'	3,196.39'	EOP

X	102+63.75	-6.50'L	947,997.865'	821,655.627'	3,197.71'	TBC - PT
Y	102+16.75	-5.50'L	947,999.613'	821,608.649'	3,197.90'	EOP
Z	102+34.25	-5.50'L	947,998.590'	821,626.119'	3,197.62'	EOP



STA. 102+34.25 RT APPROACH DETAIL (1" = 5')

LEGEND:
EOP = EDGE OF PAVEMENT
EW = EDGE OF WALK
FG = FINISHED GRADE
LD = LAYDOWN CURB
RP = RADIUS POINT
RLD = RAMP LAYDOWN CURB
TBC = TOP BACK OF CURB



STA. 103+33.80 RT APPROACH DETAIL (1" = 5')

SHEET NO. 14

STA. 102+34 AND STA. 103+34 APPROACH DETAILS (1" = 5')

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 101010000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	RRB
	02/14/24	02/14/24	02/14/24

101010000RDDETZ04.DWG

MONTANA Department of Transportation

ROAD PLANS

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SANDERSON STEWART

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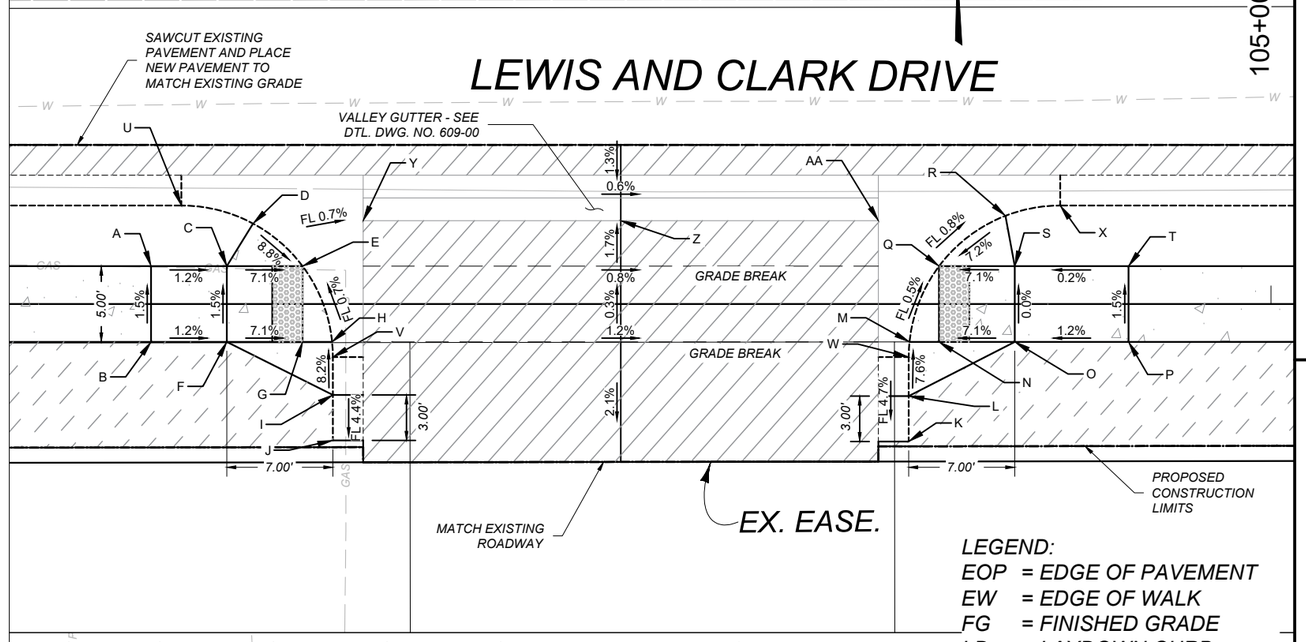
POINT NAME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	104+26.09	-2.50'L	947,984.385'	821,817.456'	3,195.81'	EW - POT
AA	104+74.09	-5.50'L	947,984.575'	821,865.549'	3,195.06'	EOP
B	104+26.09	2.50'R	947,979.394'	821,817.164'	3,195.89'	EW - POT
C	104+31.09	-2.50'L	947,984.093'	821,822.447'	3,195.75'	EW - POT
D	104+32.82	-5.31'L	947,986.798'	821,824.338'	3,195.78'	TBC - POC
E	104+36.09	-2.50'L	947,983.801'	821,827.439'	3,195.40'	RLD - POC
F	104+31.09	2.50'R	947,979.102'	821,822.155'	3,195.83'	EW - POT
G	104+36.09	2.50'R	947,978.810'	821,827.147'	3,195.47'	EW - POT
H	104+38.04	2.50'R	947,978.696'	821,829.093'	3,195.44'	RLD - POC
I	104+38.09	6.00'R	947,975.199'	821,828.937'	3,195.73'	TBC - POT
J	104+38.09	9.00'R	947,972.204'	821,828.759'	3,195.09'	TBC - POT - MATCH EX. ELEV.
K	104+76.09	9.08'R	947,969.907'	821,866.694'	3,194.67'	TBC - POT - MATCH EX. ELEV.
L	104+76.09	6.08'R	947,972.901'	821,866.869'	3,195.31'	TBC - POT
M	104+76.15	2.50'R	947,976.469'	821,867.128'	3,195.04'	RLD - POC
N	104+78.09	2.50'R	947,976.353'	821,869.075'	3,195.07'	EW - POT
O	104+83.09	2.49'R	947,976.070'	821,874.067'	3,195.42'	EW - POT
P	104+90.60	2.50'R	947,975.625'	821,881.556'	3,195.51'	EW - POT
Q	104+78.09	-2.50'L	947,981.347'	821,869.367'	3,195.07'	RLD - POC
R	104+82.48	-5.82'L	947,984.408'	821,873.937'	3,195.46'	TBC - POC
S	104+83.09	-2.50'L	947,981.055'	821,874.359'	3,195.43'	EW - POT
T	104+90.60	-2.50'L	947,980.617'	821,881.848'	3,195.44'	EW - POT
U	104+28.10	-6.50'L	947,988.262'	821,819.687'	3,195.81'	TBC - PC (R=10.0')
V	104+38.09	3.50'R	947,977.694'	821,829.085'	3,195.52'	TBC - PT
W	104+76.09	3.50'R	947,975.474'	821,867.020'	3,195.01'	TBC - PC (R=10.0')
X	104+86.09	-6.50'L	947,984.872'	821,877.587'	3,195.43'	TBC - PT

COORDINATE FRAME

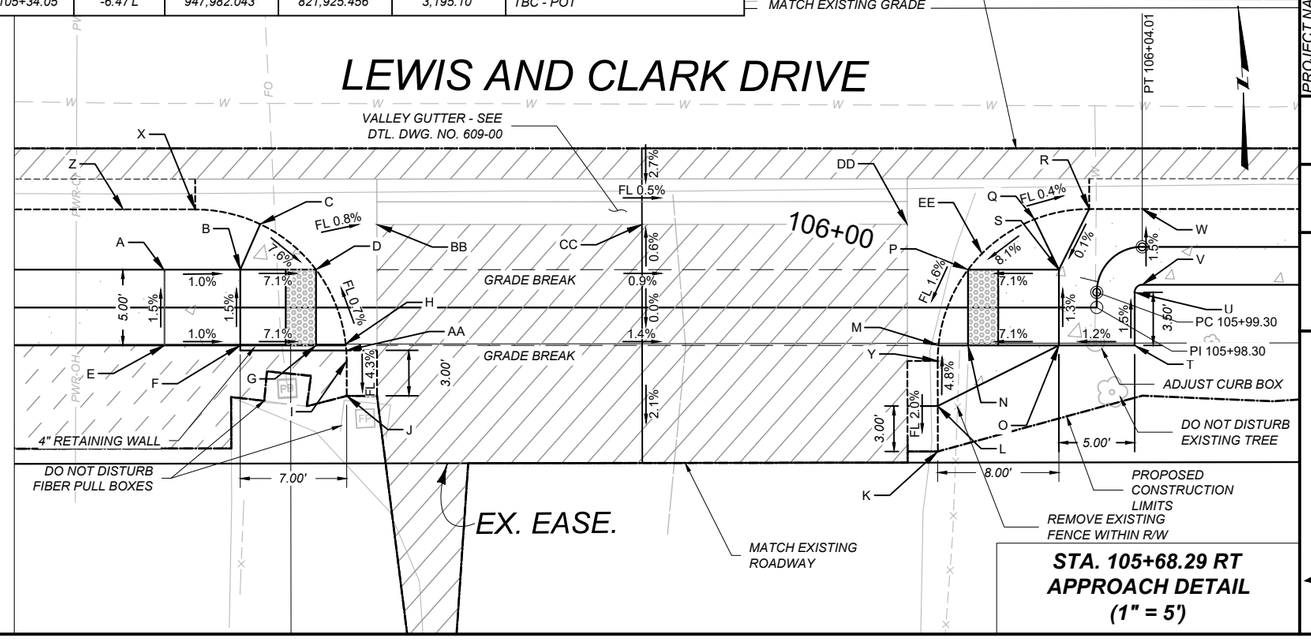
POINT NAME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	105+36.77	-2.43'L	947,977.847'	821,927.938'	3,195.08'	EW - POT
AA	105+48.77	2.83'R	947,971.893'	821,939.608'	3,195.05'	TBC - POC - TOW ELEV.
B	105+41.77	-2.50'L	947,977.626'	821,932.934'	3,195.03'	EW - POT
BB	105+50.79	-5.48'L	947,980.069'	821,942.111'	3,194.54'	EOP
C	105+43.09	-5.50'L	947,980.544'	821,934.426'	3,195.04'	TBC - POC
CC	105+68.29	-5.48'L	947,979.055'	821,959.580'	3,194.45'	EOP
D	105+46.77	-2.50'L	947,977.334'	821,937.925'	3,194.67'	RLD - POC
DD	105+85.79	-5.49'L	947,978.040'	821,977.052'	3,194.37'	EOP
E	105+36.77	2.50'R	947,972.927'	821,927.650'	3,195.15'	EW - POT
EE	105+90.71	-3.56'L	947,975.824'	821,981.855'	3,194.40'	TBC - POC - GRADE BREAK
F	105+41.77	2.50'R	947,972.634'	821,932.642'	3,195.10'	EW - POT
G	105+46.77	2.50'R	947,972.342'	821,937.633'	3,194.75'	EW - POT
H	105+48.73	2.41'R	947,972.316'	821,939.595'	3,194.72'	RLD - POC - TOW ELEV. = 3195.05'
I	105+48.79	3.52'R	947,971.211'	821,939.593'	3,194.91'	TBC - PT
J	105+48.80	5.83'R	947,968.896'	821,939.461'	3,194.42'	TBC - POT - MATCH EX. ELEV.
K	105+87.81	9.50'R	947,962.958'	821,978.191'	3,193.98'	TBC - POT - MATCH EX. ELEV.
L	105+87.80	6.50'R	947,965.952'	821,978.356'	3,194.43'	TBC - POT - 4" HEIGHT CURB
M	105+87.84	2.50'R	947,969.943'	821,978.636'	3,194.24'	RLD - POC
N	105+89.80	2.50'R	947,969.828'	821,980.585'	3,194.26'	EW - POT
O	105+95.80	2.50'R	947,969.477'	821,986.574'	3,194.69'	EW - POT
P	105+89.80	-2.50'L	947,974.819'	821,980.877'	3,194.33'	RLD - POC
Q	106+01.08	-5.60'L	947,977.879'	821,985.448'	3,194.78'	TBC - POC
R	106+02.31	-3.52'L	947,978.342'	821,989.094'	3,194.76'	TBC - PT
S	105+95.80	-2.50'L	947,974.469'	821,986.867'	3,194.76'	EW - POT
T	105+98.30	3.54'R	947,969.185'	821,991.566'	3,194.75'	EW - POT

Y	104+40.09	-5.50'L	947,986.562'	821,831.607'	3,195.27'	EOP
Z	104+57.09	-5.50'L	947,985.569'	821,848.577'	3,195.16'	EOP

U	105+99.30	2.50'R	947,972.679'	821,991.770'	3,194.80'	EW - PC (R=0.5')
V	106+04.01	2.50'R	947,973.149'	821,992.299'	3,194.82'	EW - PT
W	106+04.01	-2.50'L	947,978.137'	821,992.591'	3,194.74'	TBC - POT
X	105+38.80	-6.47'L	947,981.763'	821,930.199'	3,195.07'	TBC - PC (R=10.0')
Y	105+87.79	3.53'R	947,968.920'	821,978.526'	3,194.28'	TBC - PC (R=10.0')
Z	105+34.05	-6.47'L	947,982.043'	821,925.456'	3,195.10'	TBC - POT



LEGEND:
EOP = EDGE OF PAVEMENT
EW = EDGE OF WALK
FG = FINISHED GRADE
LD = LAYDOWN CURB
RP = RADIUS POINT
RLD = RAMP LAYDOWN CURB
TBC = TOP BACK OF CURB
TOW = TOP OF WALL



STA. 104+57.09 RT APPROACH DETAIL (1" = 5')

STA. 105+68.29 RT APPROACH DETAIL (1" = 5')

SHEET NO. 15

STA. 104+57 AND STA. 105+68 APPROACH DETAILS (1" = 5')

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
02/14/24	KBK	DRS	RRB
02/14/24			
02/14/24			

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MONTANA Department of Transportation

ROAD PLANS

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SANDERSON STEWART

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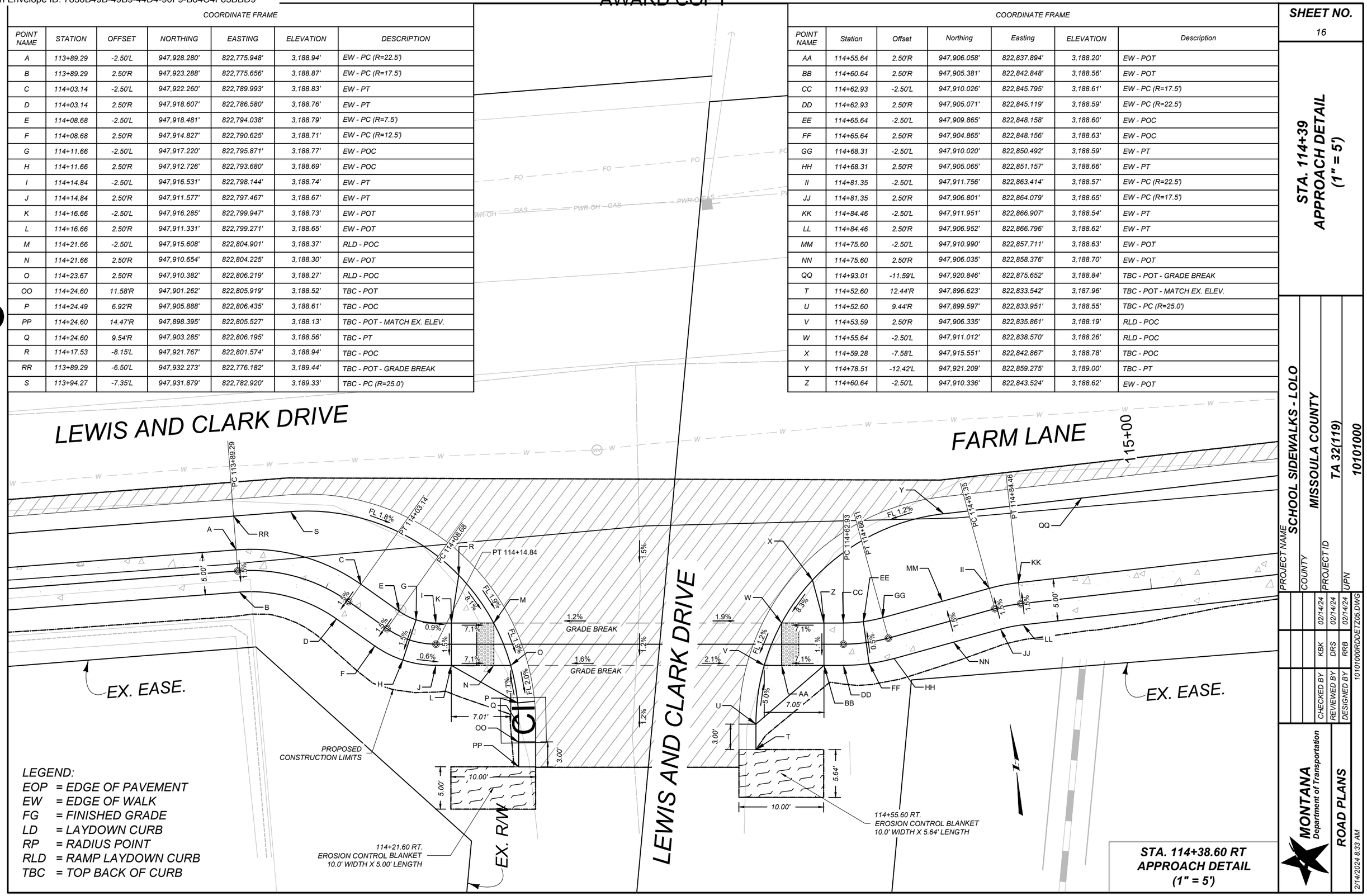
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COORDINATE FRAME

POINT NAME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	113+89.29	-2.50'L	947,928.280'	822,775.948'	3,188.94'	EW - PC (R=22.5')
B	113+89.29	2.50'R	947,923.288'	822,775.656'	3,188.87'	EW - PC (R=17.5')
C	114+03.14	-2.50'L	947,922.260'	822,789.993'	3,188.83'	EW - PT
D	114+03.14	2.50'R	947,918.607'	822,786.580'	3,188.76'	EW - PT
E	114+08.68	-2.50'L	947,918.481'	822,794.038'	3,188.79'	EW - PC (R=7.5')
F	114+08.68	2.50'R	947,914.827'	822,790.625'	3,188.71'	EW - PC (R=12.5')
G	114+11.66	-2.50'L	947,917.220'	822,795.871'	3,188.77'	EW - POC
H	114+11.66	2.50'R	947,912.726'	822,793.680'	3,188.69'	EW - POC
I	114+14.84	-2.50'L	947,916.531'	822,798.144'	3,188.74'	EW - PT
J	114+14.84	2.50'R	947,911.577'	822,797.467'	3,188.67'	EW - PT
K	114+16.66	-2.50'L	947,916.285'	822,799.947'	3,188.73'	EW - POT
L	114+16.66	2.50'R	947,911.331'	822,799.271'	3,188.65'	EW - POT
M	114+21.66	-2.50'L	947,915.608'	822,804.901'	3,188.37'	RLD - POC
N	114+21.66	2.50'R	947,910.654'	822,804.225'	3,188.30'	EW - POT
O	114+23.67	2.50'R	947,910.382'	822,806.219'	3,188.27'	RLD - POC
OO	114+24.60	11.58'R	947,901.262'	822,805.919'	3,188.52'	TBC - POT
P	114+24.49	6.92'R	947,905.888'	822,806.435'	3,188.61'	TBC - POC
PP	114+24.60	14.47'R	947,898.395'	822,805.527'	3,188.13'	TBC - POT - MATCH EX. ELEV.
Q	114+24.60	9.54'R	947,903.285'	822,806.195'	3,188.56'	TBC - PT
R	114+17.53	-8.15'L	947,921.767'	822,801.574'	3,188.94'	TBC - POC
RR	113+89.29	-6.50'L	947,932.273'	822,776.182'	3,189.44'	TBC - POT - GRADE BREAK
S	113+94.27	-7.35'L	947,931.879'	822,782.920'	3,189.33'	TBC - PC (R=25.0')

COORDINATE FRAME

POINT NAME	Station	Offset	Northing	Easting	ELEVATION	Description
AA	114+55.64	2.50'R	947,906.058'	822,837.894'	3,188.20'	EW - POT
BB	114+60.64	2.50'R	947,905.381'	822,842.848'	3,188.56'	EW - POT
CC	114+62.93	-2.50'L	947,910.026'	822,845.795'	3,188.61'	EW - PC (R=17.5')
DD	114+62.93	2.50'R	947,905.071'	822,845.119'	3,188.59'	EW - PC (R=22.5')
EE	114+65.64	-2.50'L	947,909.865'	822,848.158'	3,188.60'	EW - POC
FF	114+65.64	2.50'R	947,904.865'	822,848.156'	3,188.63'	EW - POC
GG	114+68.31	-2.50'L	947,910.020'	822,850.492'	3,188.59'	EW - PT
HH	114+68.31	2.50'R	947,905.065'	822,851.157'	3,188.66'	EW - PT
II	114+81.35	-2.50'L	947,911.756'	822,863.414'	3,188.57'	EW - PC (R=22.5')
JJ	114+81.35	2.50'R	947,906.801'	822,864.079'	3,188.65'	EW - PC (R=17.5')
KK	114+84.46	-2.50'L	947,911.951'	822,866.907'	3,188.54'	EW - PT
LL	114+84.46	2.50'R	947,906.952'	822,866.796'	3,188.62'	EW - PT
MM	114+75.60	-2.50'L	947,910.990'	822,857.711'	3,188.63'	EW - POT
NN	114+75.60	2.50'R	947,906.035'	822,858.376'	3,188.70'	EW - POT
QQ	114+93.01	-11.59'L	947,920.846'	822,875.652'	3,188.84'	TBC - POT - GRADE BREAK
T	114+52.60	12.44'R	947,896.623'	822,833.542'	3,187.96'	TBC - POT - MATCH EX. ELEV.
U	114+52.60	9.44'R	947,899.597'	822,833.951'	3,188.55'	TBC - PC (R=25.0')
V	114+53.59	2.50'R	947,906.335'	822,835.861'	3,188.19'	RLD - POC
W	114+55.64	-2.50'L	947,911.012'	822,838.570'	3,188.26'	RLD - POC
X	114+59.28	-7.58'L	947,915.551'	822,842.867'	3,188.78'	TBC - POC
Y	114+78.51	-12.42'L	947,921.209'	822,859.275'	3,189.00'	TBC - PT
Z	114+60.64	-2.50'L	947,910.336'	822,843.524'	3,188.62'	EW - POT



SANDERSON STEWART

SHEET NO.
16

STA. 114+39
APPROACH DETAIL
(1" = 5')

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	10101000RDDET205.DWG

MONTANA
Department of Transportation

ROAD PLANS

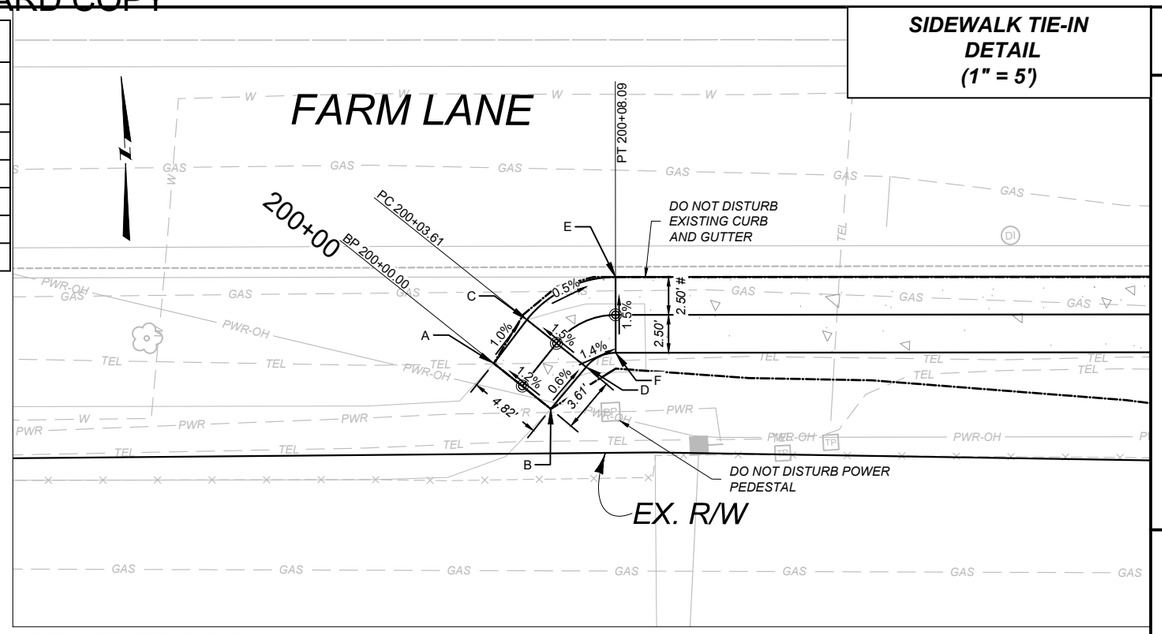
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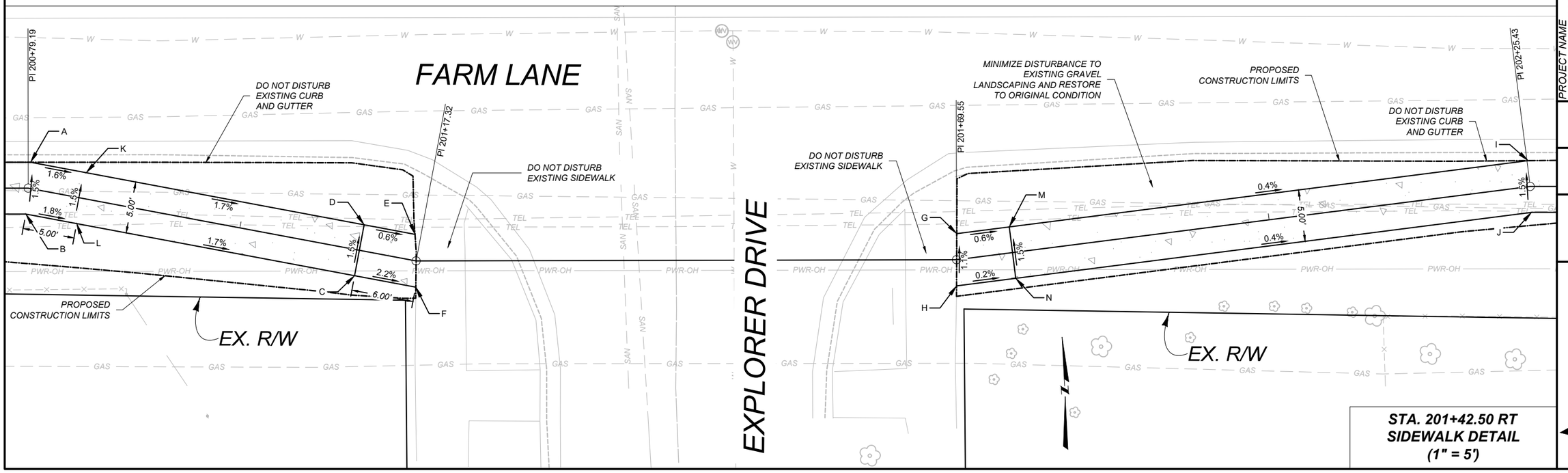
COORDINATE FRAME						
POINT NAME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	200+00.00	-2.41'L	947,892.410'	823,381.825'	3,181.87'	EW - POT - MATCH EX. ELEV.
B	200+00.00	2.41'R	947,889.189'	823,385.406'	3,181.93'	EW - POT - MATCH EX. ELEV.
C	200+03.61	-2.50'L	947,895.158'	823,384.173'	3,181.83'	EW - PC (R=7.5')
D	200+03.61	2.50'R	947,891.814'	823,387.891'	3,181.91'	EW - PC (R=2.5')
E	200+08.09	-2.50'L	947,897.630'	823,390.178'	3,181.80'	TBC - PT - MATCH EX. ELEV.
F	200+08.09	2.50'R	947,892.638'	823,389.892'	3,181.87'	EW - PT

COORDINATE FRAME						
POINT NAME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	200+79.19	-2.51'L	947,893.557'	823,461.393'	3,181.11'	TBC - POT - MATCH EX. ELEV.
B	200+78.95	2.50'R	947,888.592'	823,460.641'	3,181.19'	EW - POT
C	201+11.75	2.50'R	947,880.797'	823,492.010'	3,180.64'	EW - POT
D	201+11.75	-2.50'L	947,885.649'	823,493.216'	3,180.57'	EW - POT
E	201+16.75	-2.50'L	947,884.443'	823,498.068'	3,180.54'	EW - POT - MATCH EX. ELEV.
F	201+17.32	2.54'R	947,879.344'	823,497.854'	3,180.51'	EW - POT - MATCH EX. ELEV.
G	201+69.89	-2.50'L	947,881.456'	823,550.338'	3,180.21'	EW - POT - MATCH EX. ELEV.
H	201+69.55	2.52'R	947,876.423'	823,550.028'	3,180.27'	EW - POT - MATCH EX. ELEV.
I	202+25.43	-2.50'L	947,885.271'	823,605.867'	3,179.99'	TBC - POT - MATCH EX. ELEV.
J	202+25.23	2.50'R	947,880.261'	823,605.892'	3,180.07'	EW - POT
K	200+84.42	-2.50'L	947,892.238'	823,466.699'	3,181.03'	EW - POT
L	200+84.42	2.50'R	947,887.386'	823,465.493'	3,181.10'	EW - POT
M	201+75.00	-2.50'L	947,881.807'	823,555.436'	3,180.18'	EW - POT
N	201+75.00	2.50'R	947,876.821'	823,555.778'	3,180.26'	EW - POT



VARIES - MATCH WIDTH TO EX. TBC

LEGEND:
EOP = EDGE OF PAVEMENT
EW = EDGE OF WALK
FG = FINISHED GRADE
LD = LAYDOWN CURB
RP = RADIUS POINT
RLD = RAMP LAYDOWN CURB
TBC = TOP BACK OF CURB



SIDEWALK TIE-IN DETAIL (1" = 5')

STA. 201+42.50 RT SIDEWALK DETAIL (1" = 5')

SHEET NO. 17

SIDEWALK TIE-IN AND STA. 201+42.5 SIDEWALK DETAILS (1" = 5')

SANDERSON STEWART

MONTANA Department of Transportation

ROAD PLANS

PROJECT NAME	SCHOOL SIDEWALKS - LOLO		
COUNTY	MISSOULA COUNTY		
PROJECT ID	TA 32(119)		
UPN	10101000		
CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	

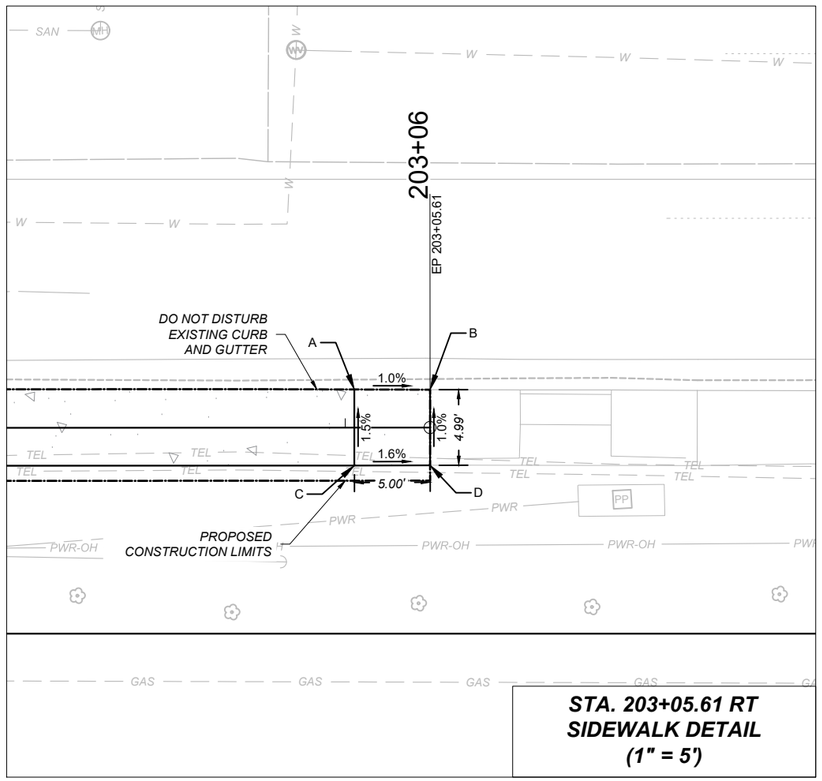
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COORDINATE FRAME						
POINT NAME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	203+00.61	-2.52'L	947,881.034'	823,681.116'	3,179.44'	TBC - POT - MATCH EX. ELEV.
B	203+05.61	-2.50'L	947,880.733'	823,686.107'	3,179.39'	TBC - POT - MATCH EX. ELEV.
C	203+00.61	2.50'R	947,876.024'	823,680.833'	3,179.52'	EW - POT
D	203+05.61	2.49'R	947,875.754'	823,685.825'	3,179.44'	EW - POT - MATCH EX. ELEV.

LEGEND:
EOP = EDGE OF PAVEMENT
EW = EDGE OF WALK
FG = FINISHED GRADE
LD = LAYDOWN CURB
RP = RADIUS POINT
RLD = RAMP LAYDOWN CURB
TBC = TOP BACK OF CURB



STA. 203+05.61 RT
SIDEWALK DETAIL
(1" = 5')

SANDERSON STEWART

SHEET NO.
18

STA. 203+06
SIDEWALK DETAIL
(1" = 5')

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

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MONTANA
Department of Transportation

ROAD PLANS

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SANDERSON STEWART

PI = 100+43.58
Δ = 13° 51' 09"
R = 50.00'
T = 6.07
L = 12.09'
E = 0.37
(RT)

PRC 100+37.53
PT 100+49.62
PI 100+99.37
Δ = 3° 48' 51"

100+00
102+00
104+00

US HIGHWAY 93 S

LEWIS AND CLARK DRIVE

ADJUST WATER VALVE BOX
I-1
MH-1
BP 100+00.00
N86°14'52"E
N89°32'09"E
S86°39'00"E
EX. EASE.
PI = 100+32.93
Δ = 10° 33' 53"
R = 50.00'
T = 4.62
L = 9.22'
E = 0.21
(LT)
PC 100+28.32
100+29.83, 5.50' RT.
EXISTING CURB INLET TO BE REMOVED BY COUNTY
EX. R/W
DO NOT DISTURB EXISTING CURB AND LIGHT POLE
EX. PROP
RESET LANDSCAPING BOX 2' FROM BACK OF WALK
DO NOT DISTURB EXISTING HYDRANT
DO NOT DISTURB EXISTING TREE
EXISTING INLET
104+15.31, 36.85 RT
3193.04

UTILITY CROSSINGS
100+19 10" WATER LINE X-ING - 6.55' DEPTH
100+20 U.G. FIBER X-ING - UNKNOWN DEPTH
100+26 O.H. POWER X-ING (7 LINES)
103+96 6" WATER LINE X-ING - 6.63' DEPTH
104+39 U.G. GAS X-ING - UNKNOWN DEPTH

T. 12 N R. 20 W
SEC. 35

NEW PLANT MIX ROAD FACILITY
NEW PLANT MIX PARKING LOT FACILITY

WATER VALVE BOXES - ADJ. TO GRADE
100+35 9.5 LT

103+34
PRIVATE APPROACH
LT. & RT.
34.0' TOP WIDTH

102+34
PRIVATE APPROACH LT. & RT.
35.0' TOP WIDTH

SEE APPROACH GRADING DETAIL
POT 100+15.00
BEG. SEGMENT A TA 32(119)
TBC PROFILE GRADE
℄ SDWK. PROFILE GRADE
EX. GROUND
SEE DETAIL SHEET FOR SIDEWALK ELEVATIONS
NEW CONC. CURB & GUTTER INCL. 30 FT. R.,10 FT. R. & 2-EXT.
NEW CONC. CURB & GUTTER INCL. 2-10 FT. R. AND 2-EXT.
NEW CONC. CURB & GUTTER INCL. 2 -10 FT. R. & 2-EXT.
NEW MEDIAN CONC. CURB RT.
RESET LANDSCAPING BOX RT.
NEW 5' CONC. SIDEWALK INCL. 2-CONC. ADA RAMPS AND EXTENSION
NEW 5' CONC. SIDEWALK INCL. 2-CONC. ADA RAMPS
NEW 5' CONC. SIDEWALK INCL. 2-CONC. ADA RAMPS

I-1 100+52.00, 7.29' LT.
TYPE B - SPECIAL DESIGN CURB INLET
GRATE EL. = 3199.40'
12" PVC I.E. OUT (S) = 3195.90'

MH-1 100+52.00, 0.50' RT.
48" SPECIAL DESIGN MH
RIM EL. = 3199.98'
12" PVC I.E. IN (N) = 3195.74'

NOTE:
- GRID ELEVATIONS ONLY APPLY TO MAINLINE PROFILE. GRID STATIONING APPLIES TO MAINLINE AND CURB PROFILES.

3202
3200
3198
3196
3194
3192

99+50 100+00 100+50 101+00 101+50 102+00 102+50 103+00 103+50 104+00 104+50

SHEET NO.
19

PLAN AND PROFILE
SEGMENT A

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 101010000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

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MONTANA Department of Transportation

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SANDERSON STEWART

UTILITY CROSSINGS

105+31	O.H. POWER X-ING (8 LINES)
105+44	U.G. FIBER X-ING - UNKNOWN DEPTH
105+98	2" WATER LINE X-ING - 6.38' DEPTH
106+35	U.G. GAS X-ING - UNKNOWN DEPTH
106+61	O.H. POWER X-ING (2 LINES)
107+09	O.H. POWER X-ING (2 LINES)
107+66	U.G. GAS X-ING - UNKNOWN DEPTH
108+14	O.H. POWER X-ING (1 LINE)
109+13	O.H. POWER X-ING (3 LINES)

T. 12 N R. 20 W SEC. 35

106+00 108+00 110+00

PI 105+98.30 PT 106+04.01

PI = 106+01.65
Δ = 90° 00' 00"
R = 3.00'
T = 3.00
L = 4.71'
E = 1.24
(RT)

LEWIS AND CLARK DRIVE

S86°39'00"E

PC 105+99.30

N3°21'00"E

Δ = 90° 00' 00"

ADJUST CURB BOX

EX. EASE.

RESET MAIL BOX

TREE ROW

EX. PROP

EX. EASE.

I-2

SD

MH-2

NEW PLANT MIX ROAD FACILITY

NEW PLANT MIX PARKING LOT FACILITY

MAILBOX - RESET
106+95 6.3 RT

CURB BOXES - ADJ. TO GRADE
105+98 2.3 RT

104+57
PRIVATE APPROACH LT. & RT.
34.0' TOP WIDTH

NEW CONC. CURB & GUTTER
INCL. 2-10 FT. R. & 2-EXT.

105+68
PRIVATE APPROACH
LT. & RT.
35.0' TOP WIDTH

TBC PROFILE GRADE

106+47
PRIVATE APPROACH LT. & RT.
24.0' TOP WIDTH

NEW CONC. CURB & GUTTER
INCL. 10 FT. R., 25 FT. R. & 2-EXT.

107+07
PRIVATE APPROACH LT. & RT.
16.0' TOP WIDTH

108+11
PRIVATE APPROACH LT. & RT.
16.0' TOP WIDTH

109+31
PRIVATE APPROACH LT. & RT.
16.0' TOP WIDTH

I-2 109+95.83, 3.07' LT.
TYPE B - SPECIAL DESIGN
CURB INLET
GRATE EL. = 3191.68'
12" PVC I.E. OUT (S) = 3187.10'

MH-2 109+95.83, 9.24' RT.
48" SPECIAL DESIGN MH
RIM EL. = 3191.15'
12" PVC I.E. IN (N) = 3186.85'

℄ SDWK. PROFILE GRADE

EX. GROUND

NEW 5' CONC. SIDEWALK
INCL. 2-CONC. ADA RAMPS

NEW 5' CONC. SIDEWALK
INCL. 6-DRIVE APPROACHES
AND 2-CONC. ADA RAMPS

NOTE:
- GRID ELEVATIONS ONLY APPLY TO MAINLINE PROFILE. GRID STATIONING APPLIES TO MAINLINE AND CURB PROFILES.

3198 3196 3194 3192 3190 3188

105+00 105+50 106+00 106+50 107+00 107+50 108+00 108+50 109+00 109+50 110+00

SHEET NO. 20

PLAN AND PROFILE SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
02/14/24	KBK	DRS	RRB

MONTANA Department of Transportation

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SANDERSON STEWART

UTILITY CROSSINGS

111+11	O.H. POWER X-ING (6 LINES)
111+12	U.G. FIBER X-ING - UNKNOWN DEPTH
111+14	U.G. TELEPHONE X-ING - UNKNOWN DEPTH
111+40	6" WATER LINE X-ING - 6.72' DEPTH
111+52	1" WATER LINE X-ING - 6.55' DEPTH
111+79	U.G. GAS X-ING - UNKNOWN DEPTH
112+24	O.H. POWER X-ING (2 LINES)
115+45	O.H. POWER X-ING (8 LINES)

110+00 112+00 114+00 115+51

PI = 112+33.21
Δ = 14° 08' 35"
R = 60.00'
T = 7.44
L = 14.81'
E = 0.46
(RT)

PI = 114+82.91
Δ = 8° 55' 07"
R = 20.00'
T = 1.56
L = 3.11'
E = 0.06
(RT)

REMOVE EXISTING INLET
114+08.78, 2.73 LT
3187.28

PC 112+25.80
PT 112+56.91
PC 113+89.29
PC 114+81.35
PT 114+14.84
PT 114+03.14
PC 114+08.68
PT 114+68.31
PC 114+62.93
PT 114+84.46
EP 115+50.59

I-2
MH-2
LEWIS AND CLARK DRIVE
FARM LANE
TRIPP LANE
LEWIS AND CLARK DRIVE
I-3

S86°39'00"E
EX. EASE.
EX. PROP.
PT 112+40.61
S72°30'25"E
PC 112+42.10
PI = 112+49.50
Δ = 14° 08' 35"
R = 60.00'
T = 7.44
L = 14.81'
E = 0.46
(LT)
PI = 113+96.21
Δ = 39° 42' 00"
R = 20.00'
T = 7.22
L = 13.86'
E = 1.26
(RT)
S46°57'00"E
PI = 114+11.76
Δ = 35° 16' 33"
R = 10.00'
T = 3.18
L = 6.16'
E = 0.49
(LT)
S82°13'34"E
S88°43'53"E
EX. R/W
EX. EASE.
N82°21'01"E
PI = 114+65.62
Δ = 15° 25' 25"
R = 20.00'
T = 2.71
L = 5.38'
E = 0.18
(LT)
R.R. R/W
100'
POT 115+46.69
END SEGMENT A TA 32(119)

T. 12 N R. 20 W
SEC. 35

NEW PLANT MIX ROAD FACILITY
NEW PLANT MIX PARKING LOT FACILITY

110+44
PRIVATE APPROACH LT. & RT.
16.0' TOP WIDTH

111+24
PUBLIC APPROACH LT. & RT.
TRIPP LANE
16.0' TOP WIDTH

NEW CONC. CURB & GUTTER
INCL. 10 FT. R., 25 FT. R. & 2-EXT.

114+39
PUBLIC APPROACH LT. & RT.
LEWIS AND CLARK DRIVE
24.0' TOP WIDTH

I-3 114+25.18, 8.97' RT.
TYPE B - SPECIAL DESIGN CURB INLET
GRATE EL. = 3188.10'

NEW CONC. CURB & GUTTER
INCL. 25 FT. R. & 1-EXT.

SEE APPROACH GRADING DETAIL

TBC PROFILE GRADE

REMOVE EXISTING INLET
114+08.78, 2.73 LT.

114+21.60 RT.
NEW ERO. CONTRL. BLANKET

114+55.60 RT.
NEW ERO. CONTRL. BLANKET

℄ SDWK. PROFILE GRADE

EX. GROUND

NOTE:
- GRID ELEVATIONS ONLY APPLY TO MAINLINE PROFILE. GRID STATIONING APPLIES TO MAINLINE AND CURB PROFILES.

NEW 5' CONC. SIDEWALK (LT)
INCL. 6-DRIVE APPROACHES
INCL. 2-CONC. ADA RAMPS

NEW 5' CONC. SIDEWALK
INCL. 1-CONC. ADA RAMP

3194 3192 3190 3188 3186 3184

110+50 111+00 111+50 112+00 112+50 113+00 113+50 114+00 114+50 115+00 115+50

SHEET NO. 21

PLAN AND PROFILE
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	RRB
	02/14/24	02/14/24	02/14/24

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MONTANA Department of Transportation

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SANDERSON STEWART

UTILITY CROSSINGS

200+02	U.G. TELEPHONE X-ING - UNKNOWN DEPTH
200+23	U.G. TELEPHONE X-ING - UNKNOWN DEPTH
200+60	U.G. GAS X-ING - UNKNOWN DEPTH
200+81	U.G. GAS X-ING - UNKNOWN DEPTH
200+93	U.G. TELEPHONE X-ING - UNKNOWN DEPTH
200+99	U.G. TELEPHONE X-ING - UNKNOWN DEPTH
202+06	U.G. TELEPHONE X-ING - UNKNOWN DEPTH
202+10	U.G. GAS X-ING - UNKNOWN DEPTH
202+12	U.G. TELEPHONE X-ING - UNKNOWN DEPTH

PI = 200+05.85
Δ = 51° 18' 11"
R = 5.00'
T = 2.40
L = 4.48'
E = 0.55
(RT)

PT 200+08.09
PI 200+79.19
PI 201+17.32
PI 201+69.55
PI 202+25.43
EP 203+05.61

200+00
PC 200+03.61
BP 200+00.00
202+00
203+06

ASHTON LOOP
FARM LANE
EXPLORER DRIVE
LAKESIDE DRIVE
FARM LANE

Δ = 10°40'56"
S86°43'36"E
S76°02'40"E
S86°46'31"E
N86°04'13"E
S86°45'35"E
EX. R/W
EX. R/W
EX. R/W
N41°58'13"E
Δ = 10°43'51"
Δ = 7°09'16"
Δ = 7°10'12"

T. 12 N
R. 20 W
SEC. 35

POT 200+00.00
BEG. SEGMENT B TA 32(119)

POT 203+05.61
END SEGMENT B TA 32(119)

201+43
PUBLIC APPROACH LT. & RT.
EXPLORER DRIVE
DO NOT DISTURB

℄ SDWK.
PROFILE GRADE

℄ SDWK.
PROFILE GRADE

EX. GROUND

200+00.00	200+08.09	200+16.83	200+41.77	200+66.95	200+79.19	201+17.32	201+69.55	202+25.43	202+43.01	202+67.98	202+92.95	203+00.61	203+05.61				
3181.90	3181.83	3181.74	3181.43	3181.24	3181.15	3180.51	3180.24	3180.03	3179.92	3179.68	3179.56	3179.48	3179.41				
	-0.810%	-1.110%	-1.243%	-0.755%	-0.701%	-1.682%		-0.371%	-0.649%	-0.961%	-0.481%	-.027%	-1.295%				

+00.00 NEW 5' CONC. SIDEWALK +17.32

+69.55 NEW 5' CONC. SIDEWALK +05.61

3190 3188 3186 3184 3182 3180 3178 3176

199+50 200+00 200+50 201+00 201+50 202+00 202+50 203+00 203+50 204+00 204+50

SHEET NO.
22

PLAN AND PROFILE
SEGMENT B

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	RRB
	02/14/24	02/14/24	02/14/24

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MONTANA
Department of Transportation

ROAD PLANS

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SANDERSON STEWART

SUMMARY
SIGNING & DELINEATION QUANTITIES

SUMMARY SIGNING & DELINEATION QUANTITIES		
MATERIAL	TOTALS	UNIT
SIGNS-ALUM REFL SHEET XI	0.0	SQFT
RESET SIGNS	1	EACH
REMOVE SIGN	0	EACH
POSTS-STEEL U SIGN	0	LB
POSTS-TUBULAR STEEL-SQ-PERF	0	LB
POLES-TREATED WOOD 4 IN	0	LNFT
POLES-TREATED WOOD 5 IN	0	LNFT
SQ TUBLR SLIP BASE BKWY-3 IN (76MM)	0	EACH
DELINEATOR-FLEX SURF MTD YLW	0	EACH
REMOVE DELINEATORS	0	EACH

SHEET NO.
S1

SUMMARY

PROJECT NAME SCHOOL SIDEWALKS-LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

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MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION AND SPECIFICATION

Lt.	STATION / M.P.	Rt.	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG BACK- GRND	REFL SHTG LEGEND	FEET CLEARANCE	FEET SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET SUPPORT LENGTH (ESTIMATED)	FEET SUPPORT LENGTH (INSTALLED)	FEET MOUNTING HEIGHT	FEET FOUNDATION DEPTH	SIGN PANEL (SQ. FT.) SHEET ALUMINUM IV	ALUM. SHEET INCREMENT IV	SHEET ALUMINUM XI	ALUM. SHEET INCREMENT XI	ALUMINUM SHT OVERLAY	TIMBER POLE (LINEAR FT.) 4" TOP DIA.	5" TOP DIA.	6" TOP DIA.	STEEL POST (LBS.) ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET	REMARKS
SEGMENT A																																
HWY 93																																
	100+15	Rt.		R1-5L	USE AS IS																											
	100+21	Rt.		Beacon R2-1	USE AS IS USE AS IS																											SPEED LIMIT 35
	100+44	Lt.		W11-2 W16-7P	USE AS IS USE AS IS																											
LEWIS AND CLARK DR																																
	100+45	Lt.		(2) D3-1 R1-1	USE AS IS USE AS IS																											LEWIS AND CLARK DR
	103+80	Rt.		R2-1	RESET			11-6																						1			SPEED LIMIT 25
	114+63	Rt.		D3-1 (2) D3-1 R1-1	USE AS IS USE AS IS USE AS IS																											FARM LN LEWIS AND CLARK DR
	115+81	Lt.		CUSTOM	USE AS IS																											WATERING REGULATIONS IN EFFECT
	116+79	Rt.		D3-1 D3-1 R1-1	USE AS IS USE AS IS USE AS IS																											ASHTON LOOP FARM LN
SEGMENT B																																
FARM LN																																
	197+24	Lt.		R2-1	USE AS IS																											SPEED LIMIT 25
	199+08	Rt.		D3-1 D3-1 R1-1	USE AS IS USE AS IS USE AS IS																											ASHTON LOOP FARM LN
	201+63	Rt.		D3-1 D3-1 R1-1	USE AS IS USE AS IS USE AS IS																											FARM LN EXPLORER DR

SANDERSON STEWART

SHEET NO.
S2

SIGN SPECIFICATIONS

PROJECT NAME SCHOOL SIDEWALKS-LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

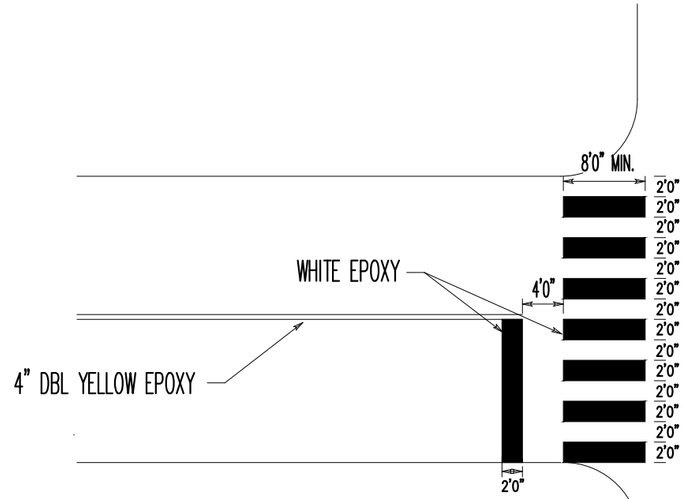
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MONTANA
Department of Transportation

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PEDESTRIAN CROSSING
PAVEMENT MARKINGS

SANDERSON STEWART

SHEET NO.
S3

DETAIL

PROJECT NAME SCHOOL SIDEWALKS-LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

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MONTANA
Department of Transportation

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SANDERSON STEWART

US HIGHWAY 93 S

LEWIS AND CLARK DRIVE

USE AS IS
W11-2
W16-7P
STA 100+44

BEGIN YELLOW EPOXY CURB MARKING
STA 100+40.91, 42.5' LT

Lewis and Clark Dr

Lewis and Clark Dr

STOP

USE AS IS
(2) D3-1
R1-1
STA 100+45

REMOVE PAVEMENT MARKINGS

END YELLOW CURB EPOXY MARKING
STA 100+46.44, 40.1' LT

24" WHITE EPOXY

100+00

101+00

102+00

8'

4' MIN.

END YELLOW CURB EPOXY MARKING
STA 100+50.59, 7.0' LT

8" WHITE EPOXY

EX. EASE.

WHITE EPOXY LADDER STYLE CROSSWALK, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

SPEED LIMIT 35

USE AS IS
BEACON
R2-1
STA 100+21

BEGIN YELLOW EPOXY CURB MARKING, TIE INTO EXISTING
STA 100+03.40, 28.4' RT

EX. R/W

YIELD HERE TO

USE AS IS
R1-5L
STA 100+15

SCALE: 1"=20'

0 10 20 30 40

SHEET NO.
S4

SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS-LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

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MONTANA
Department of Transportation

SIGNING PLANS

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SANDERSON STEWART

103+00

104+00

105+00

WHITE EPOXY LADDER STYLE CROSSWALK, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

WHITE EPOXY LADDER STYLE CROSSWALK, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

LEWIS AND CLARK DRIVE

EX. EASE.

EX. EASE.

SPEED LIMIT 25

RESET
R2-1
STA 103+80

SCALE: 1"=20'

0 10 20 30 40

SHEET NO.
S5

SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS-LOLO

COUNTY: MISSOULA COUNTY

PROJECT ID: TA 32(119)

UPN: 10101000

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

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MONTANA
Department of Transportation

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SANDERSON STEWART

105+00

106+00

107+00

LEWIS AND CLARK DRIVE

EX. EASE.

WHITE EPOXY LADDER STYLE CROSSWALK, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

SCALE: 1"=20'

0 10 20 30 40

SHEET NO.
S6

SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS-LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

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SANDERSON STEWART

108+00

109+00

110+00

LEWIS AND CLARK DRIVE

EX. EASE.

SCALE: 1"=20'

0 10 20 30 40

SHEET NO.
S7

SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS-LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

DESIGNED BY	KMR	12/22/23
REVIEWED BY	DRS	12/22/23
CHECKED BY	JHS	12/22/23

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SANDERSON STEWART

110+00

111+00

112+00

LEWIS AND CLARK DRIVE

EX. EASE.

TRIPP LANE

SCALE: 1"=20'

0 10 20 30 40

SHEET NO. S8

SEGMENT A

PROJECT NAME	SCHOOL SIDEWALKS-LOLO
COUNTY	MISSOULA COUNTY
PROJECT ID	TA 32(119)
UPN	10101000

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

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SANDERSON STEWART

113+00

114+00

115+00

LEWIS AND CLARK DRIVE

EX. EASE.

WHITE EPOXY LADDER STYLE CROSSWALK, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

24" WHITE EPOXY, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

EX. R/W

LEWIS AND CLARK DRIVE

R.R. R/W

EX. EASE.

Farm Ln

Lewis and Clark Dr

Lewis and Clark Dr

EX. EASE.

USE AS IS
D3-1
(2) D3-1
R1-1
STA 114+63

STOP

R.R. R/W

100'

SCALE: 1"=20'

0 20 40
10 30

SHEET NO.
S9

SEGMENT A

PROJECT NAME	SCHOOL SIDEWALKS-LOLO		
COUNTY	MISSOULA COUNTY		
PROJECT ID	TA 32(119)		
UPN	10101000		
		12/22/23	
CHECKED BY	JHS	12/22/23	
REVIEWED BY	DRS	12/22/23	
DESIGNED BY	KMR	12/22/23	10101000SIPLN202.DWG

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SANDERSON STEWART

STORAGE LANE

WHITE EPOXY LADDER STYLE CROSSWALK, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

115+00

115+51

WHITE EPOXY LADDER STYLE CROSSWALK, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

FARM LANE

USE AS IS CUSTOM STA 115+81

EX. R/W

EX. EASE.

24" WHITE EPOXY, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

Farm Ln

Lewis and Clark Dr

Lewis and Clark Dr

EX. EASE.

USE AS IS
D3-1
(2) D3-1
R1-1
STA 114+63

STOP

R.R. R/W

EX. EASE.

R.R. R/W

100'

24" WHITE EPOXY, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

ASHTON LOOP

Farm Ln

Ashton Loop

STOP

USE AS IS
D3-1
D3-1
R1-1
STA 116+79

SCALE: 1"=20'

0 10 20 30 40

SHEET NO.
S10

SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS-LOLO

COUNTY: MISSOULA COUNTY

PROJECT ID: TA 32(119)

UPN: 10101000

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

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SANDERSON STEWART

FARM LANE

200+00

WHITE EPOXY LADDER STYLE CROSSWALK, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

SPEED LIMIT 25

USE AS IS
R2-1
STA 197+24

EX. R/W

24" WHITE EPOXY, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

ASHTON LOOP

Farm Ln

Ashton Loop

STOP

USE AS IS
D3-1
D3-1
R1-1
STA 199+08

SCALE: 1"=20'

0 10 20 30 40

SHEET NO.
S11

SEGMENT B

PROJECT NAME: **SCHOOL SIDEWALKS-LOLO**
COUNTY: **MISSOULA COUNTY**
PROJECT ID: **TA 32(119)**
UPN: **10101000**

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

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MONTANA Department of Transportation

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SANDERSON STEWART

201+00

202+00

SANDERSON WAY

EXPLORER DRIVE

EX. R/W

EX. R/W

WHITE EPOXY LADDER STYLE CROSSWALK, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

24" WHITE EPOXY, SEE PEDESTRIAN CROSSING PAVEMENT MARKINGS DETAIL

Farm Ln

Explorer Dr

STOP

USE AS IS
D3-1
D3-1
R1-1
STA 201+63

SCALE: 1"=20'

0 10 20 30 40

SHEET NO.
S12

SEGMENT B

PROJECT NAME: SCHOOL SIDEWALKS-LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	JHS	12/22/23
REVIEWED BY	DRS	12/22/23
DESIGNED BY	KMR	12/22/23

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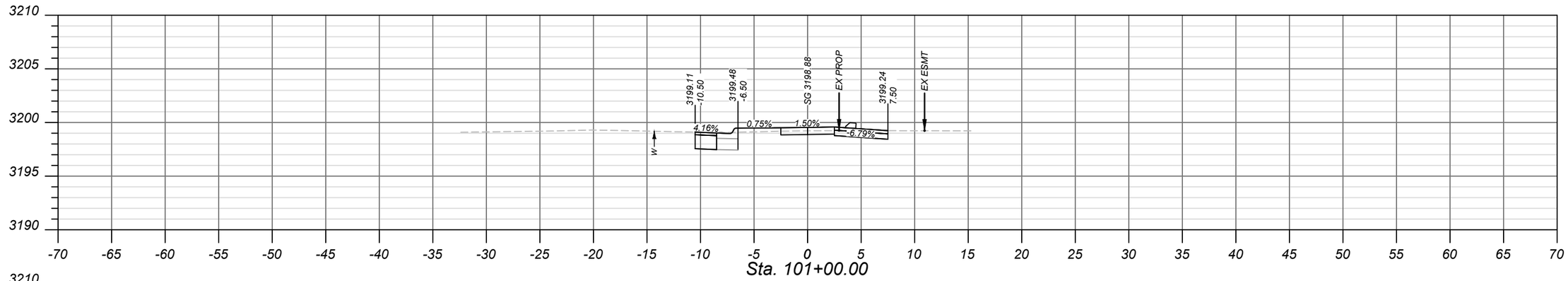
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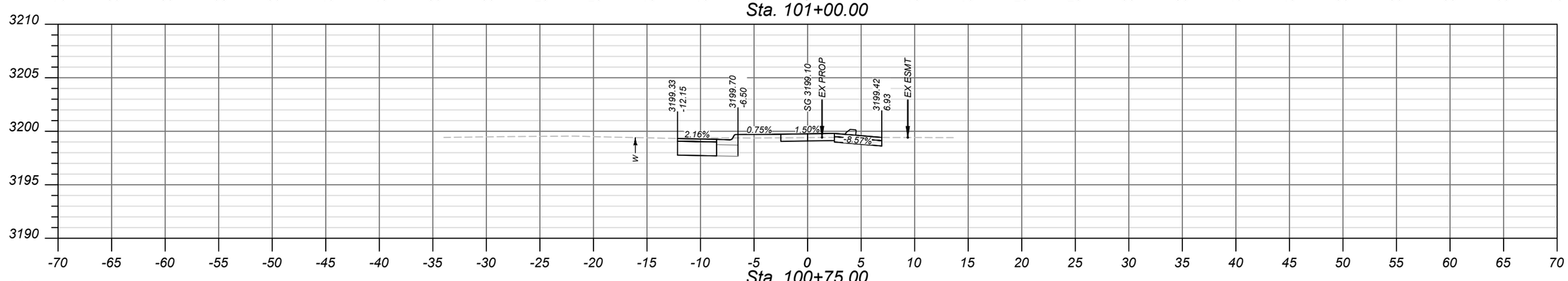
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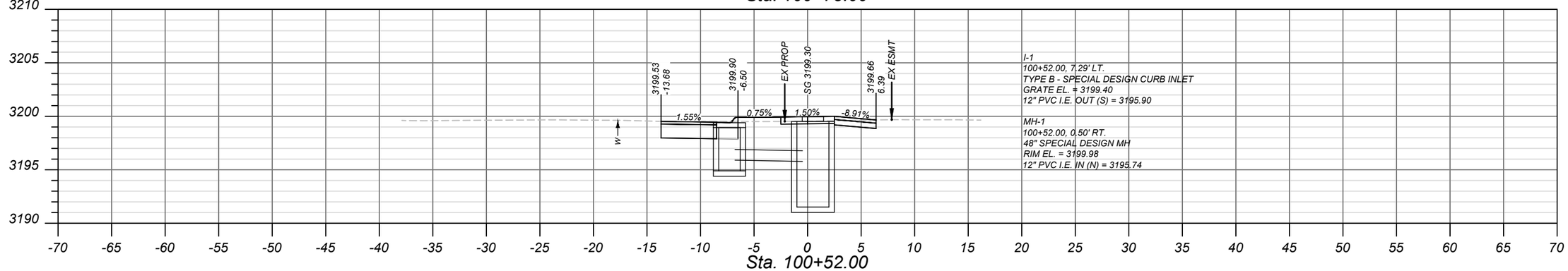
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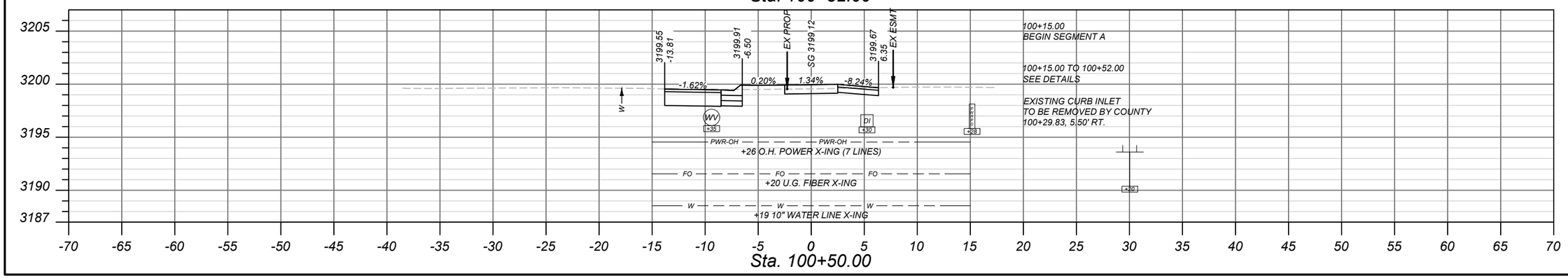
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SANDERSON STEWART

SHEET NO.
1

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

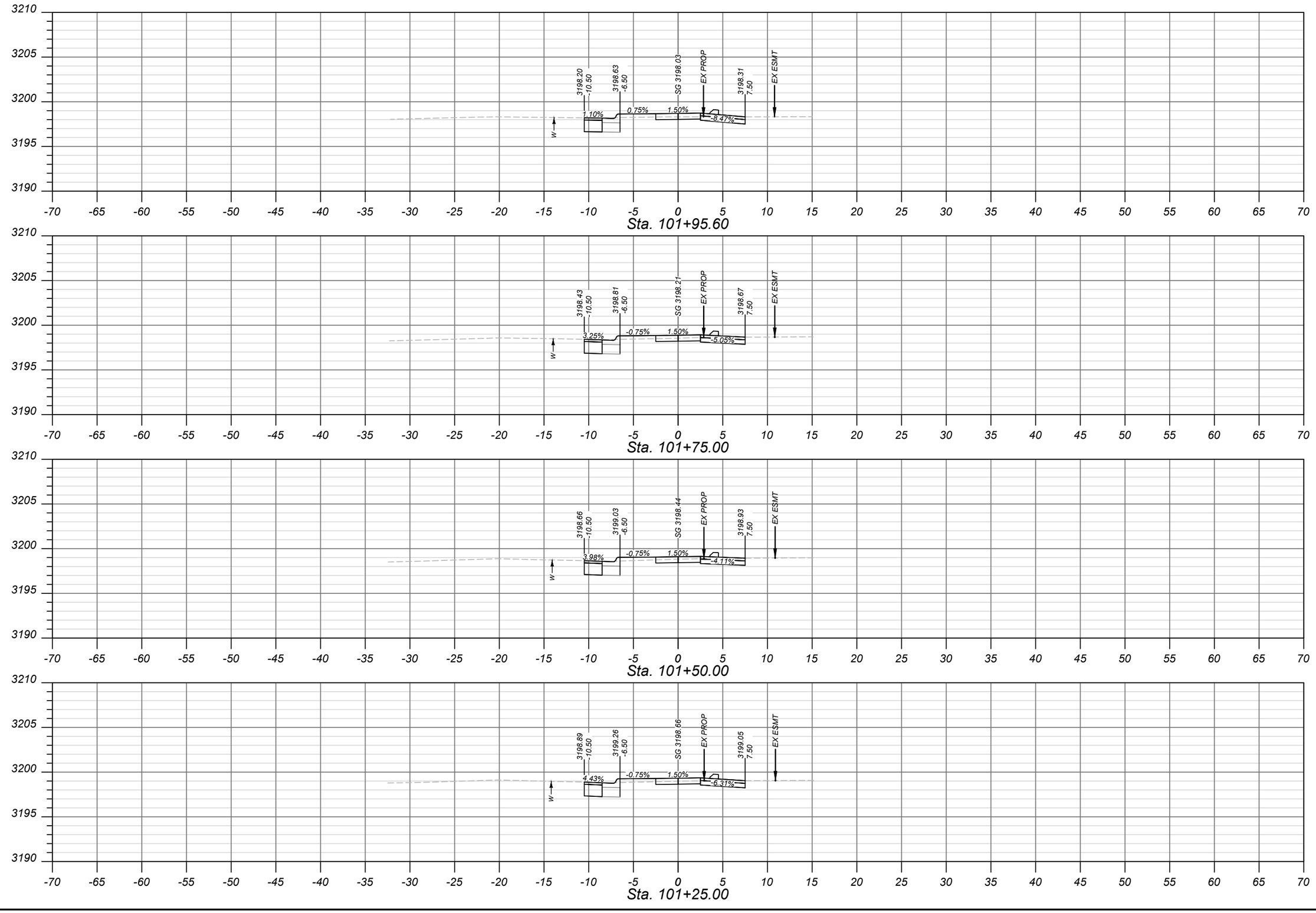
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CROSS SECTIONS

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SANDERSON STEWART

SHEET NO.
2

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

DESIGNED BY	RRB	02/14/24	
REVIEWED BY	DRS	02/14/24	
CHECKED BY	KBK	02/14/24	

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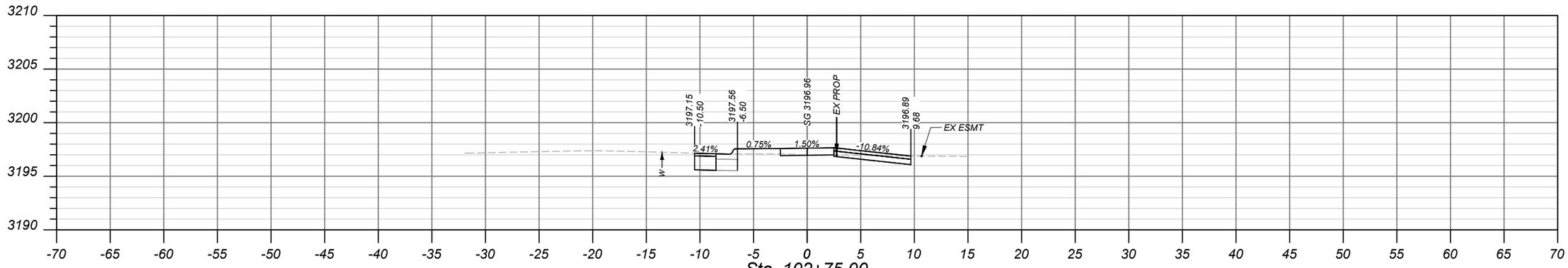
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CROSS SECTIONS

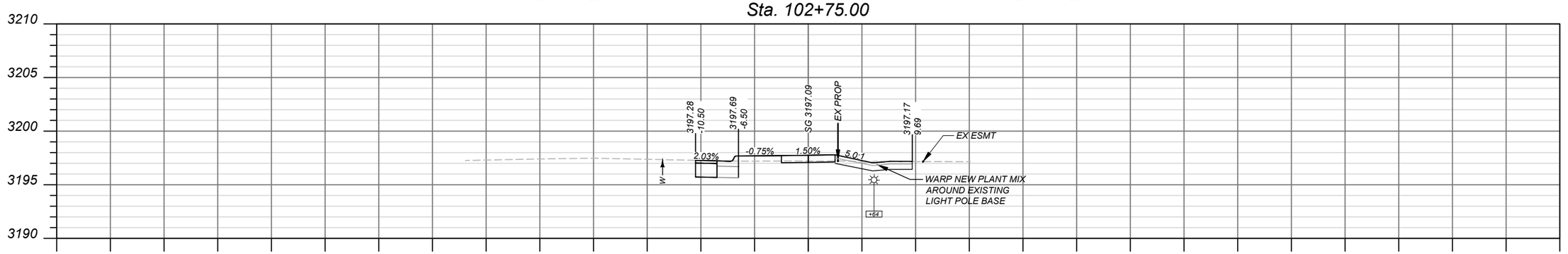
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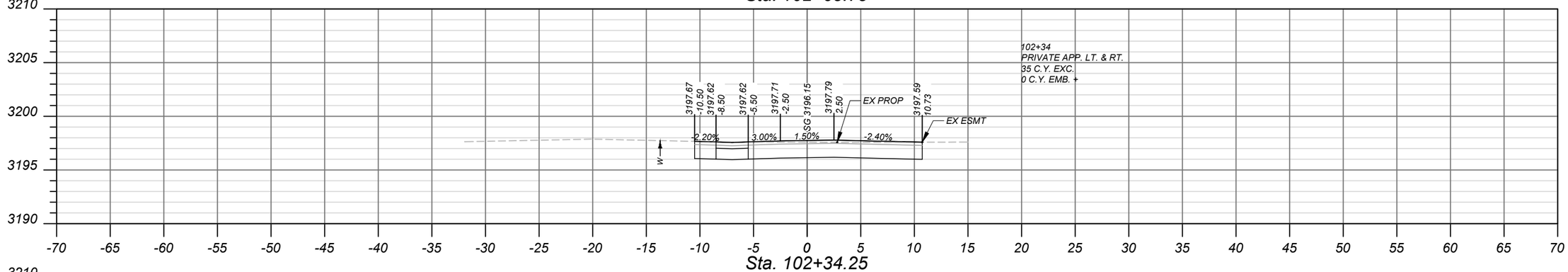
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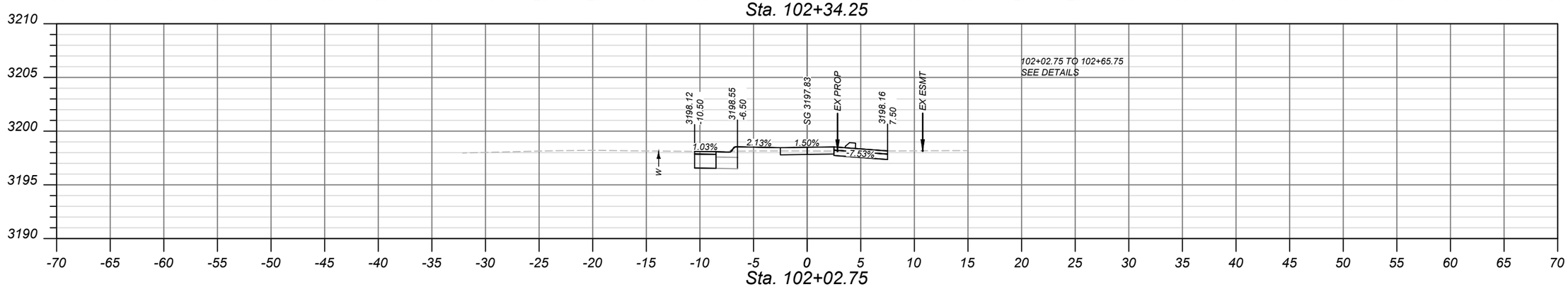
Sta. 102+75.00



Sta. 102+65.75



Sta. 102+34.25



Sta. 102+02.75

SANDERSON STEWART

SHEET NO.
3

CROSS SECTIONS
SEGMENT A

PROJECT NAME	SCHOOL SIDEWALKS - LOLO		
COUNTY	MISSOULA COUNTY		
PROJECT ID	TA 32(119)		
UPN	10101000		
CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	

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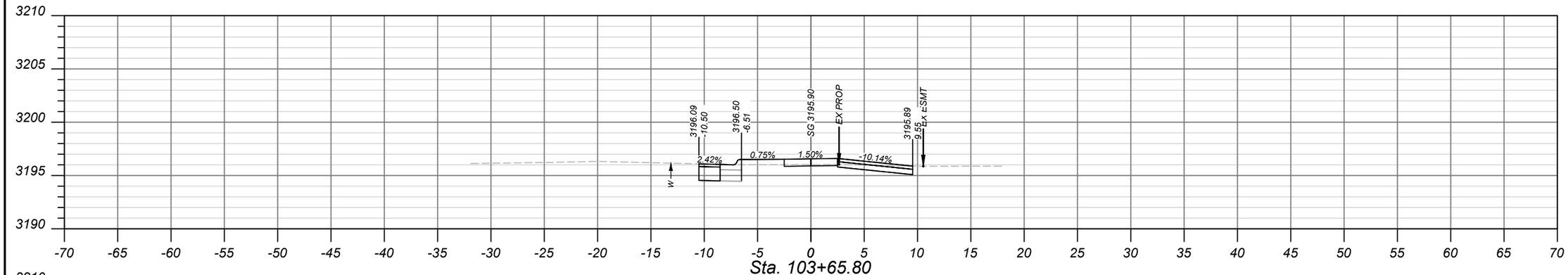
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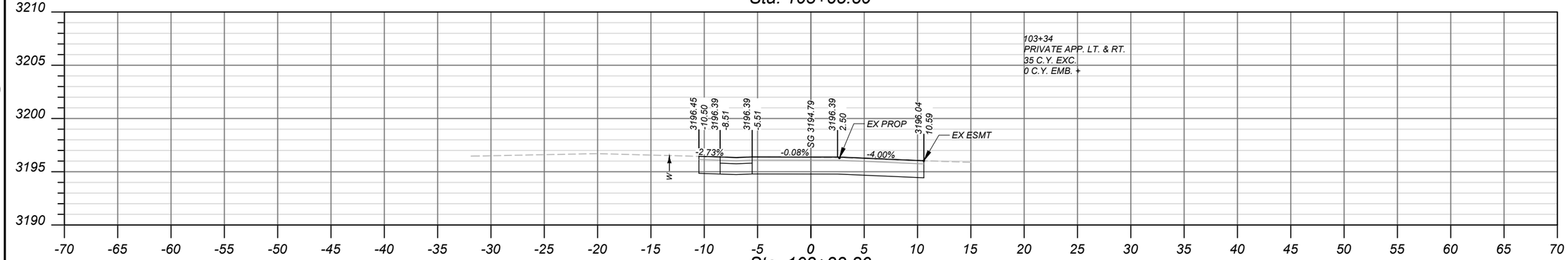
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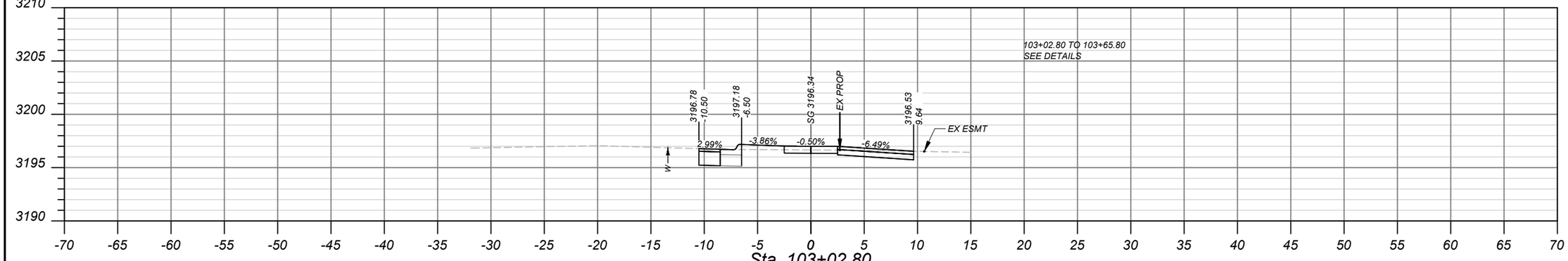
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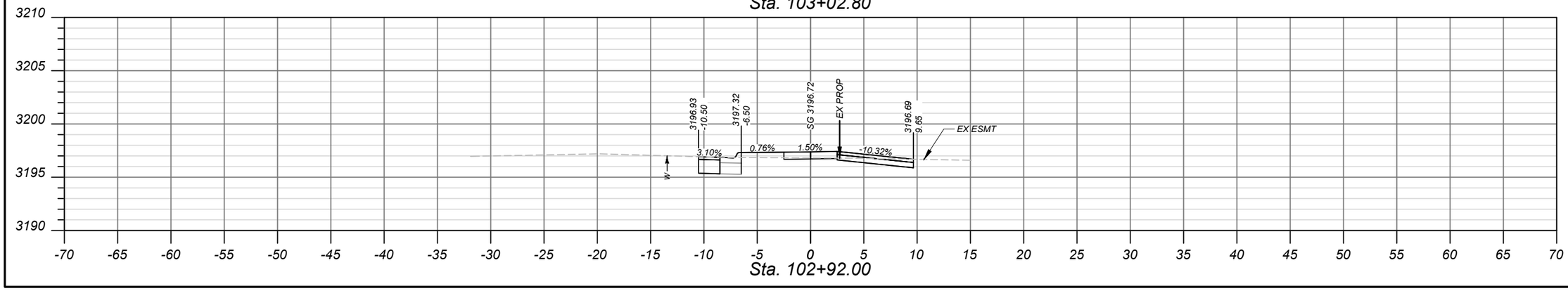
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SANDERSON STEWART

SHEET NO. 4

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

10101000RDLAYZ00.DWG

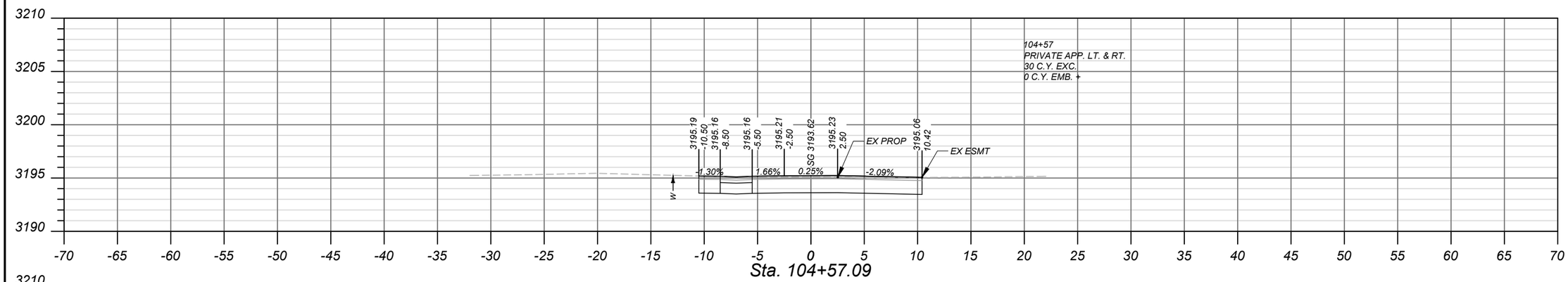
MONTANA Department of Transportation

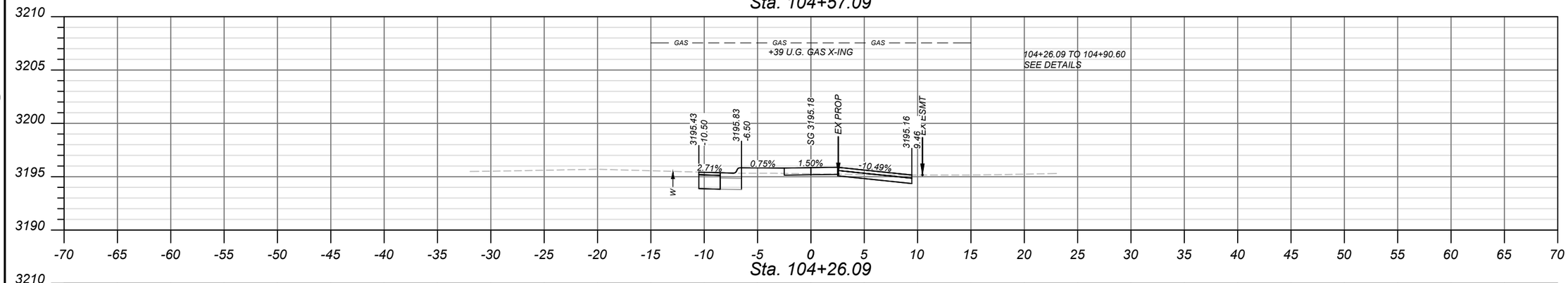
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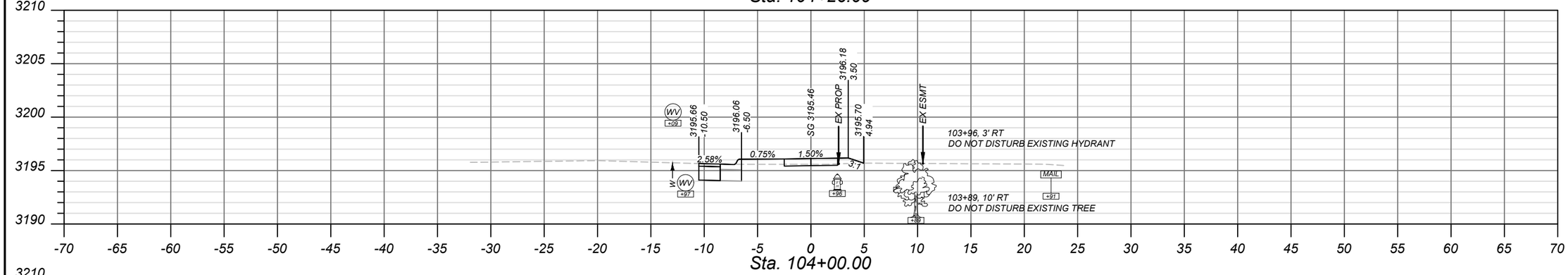
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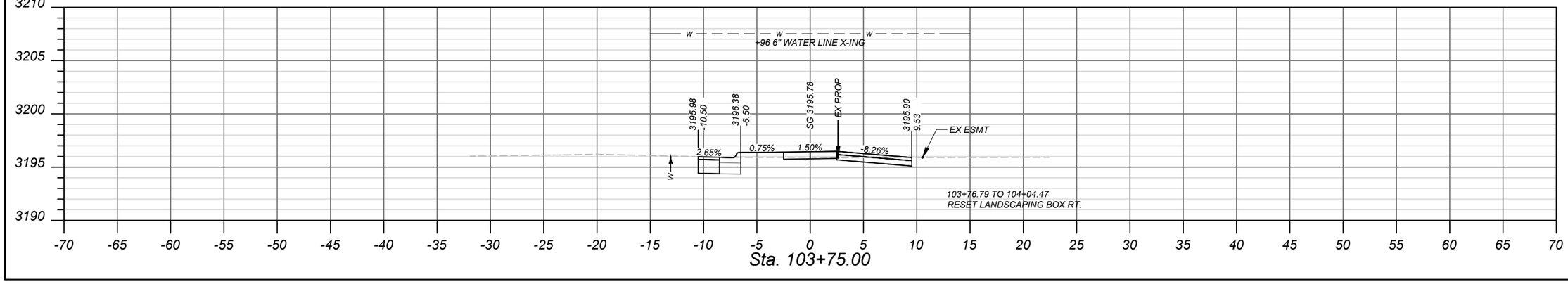
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SANDERSON STEWART

SHEET NO. 5

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

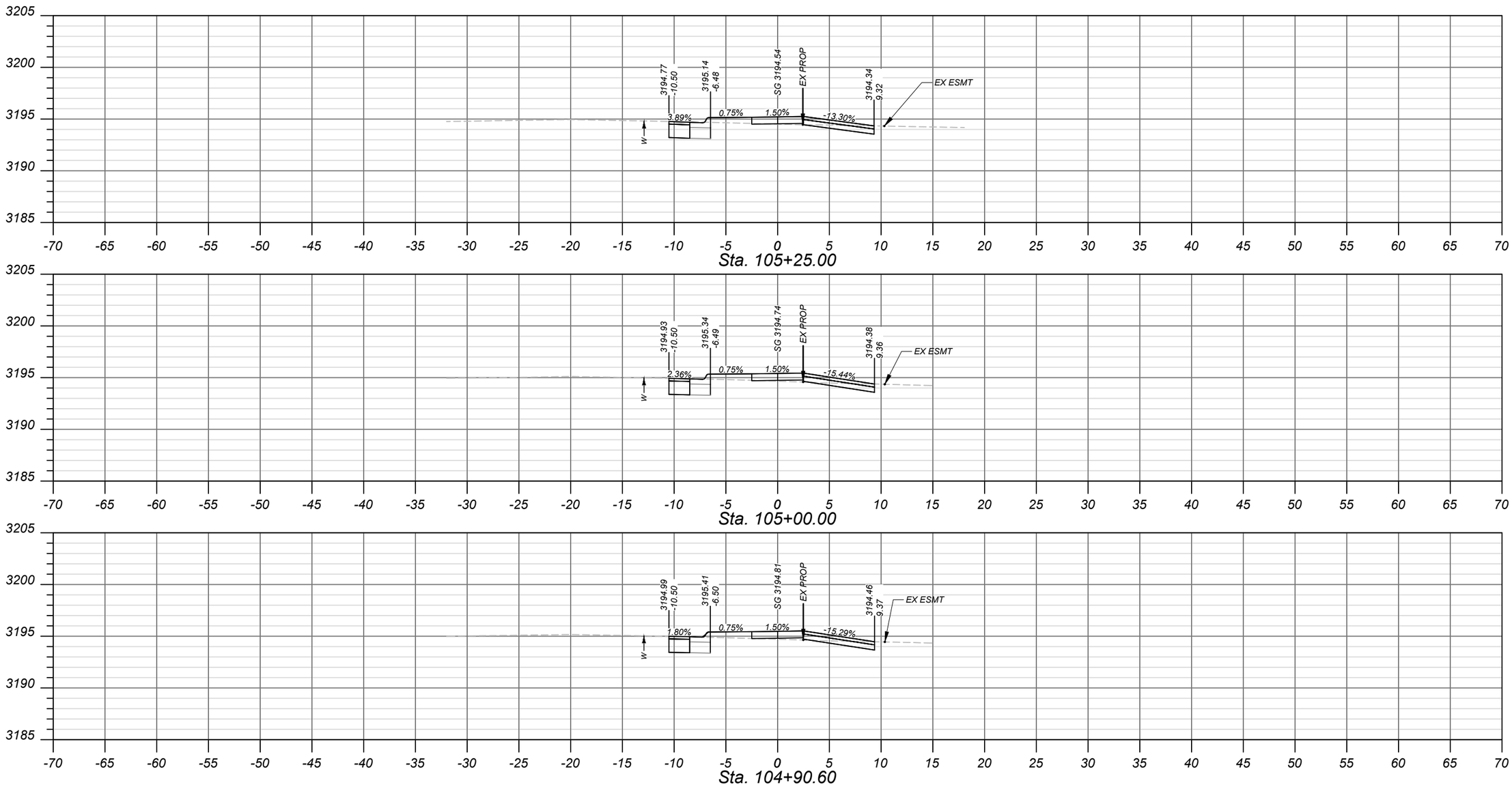
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MONTANA
Department of Transportation

CROSS SECTIONS

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SANDERSON STEWART

SHEET NO.
6

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	RRB
	02/14/24	02/14/24	02/14/24

10101000RDLAYZ00.DWG

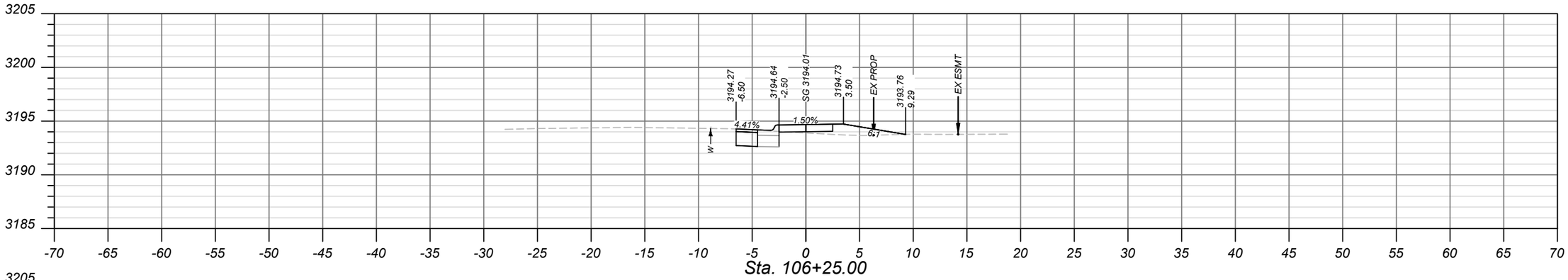
MONTANA
Department of Transportation

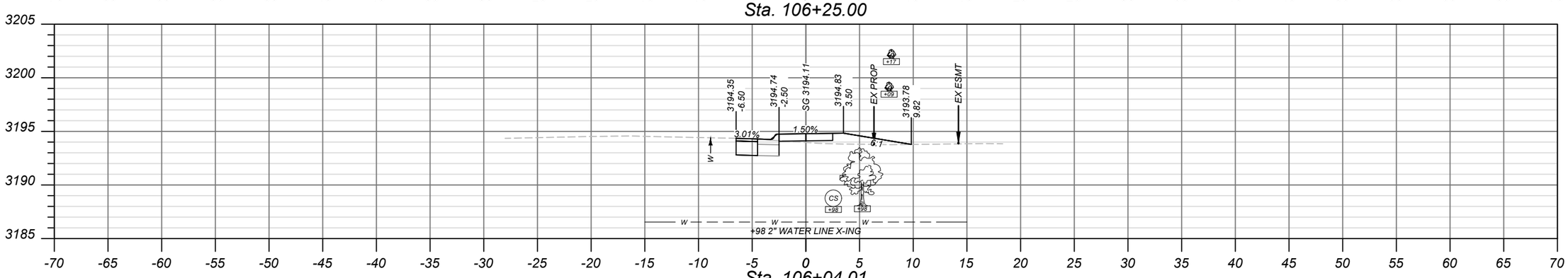
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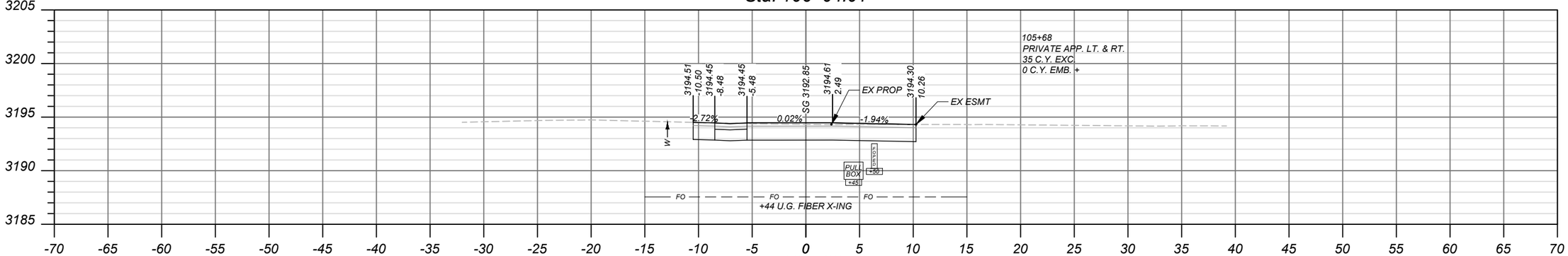
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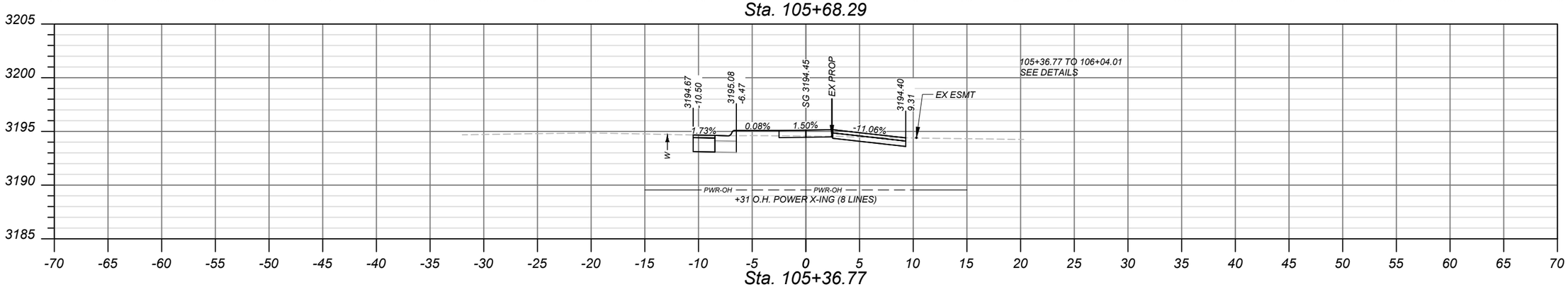
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AWARD COPY









SANDERSON STEWART

SHEET NO.
7

CROSS SECTIONS
SEGMENT A

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	RRB
	02/14/24	02/14/24	02/14/24

10101000RDLAY201.DWG

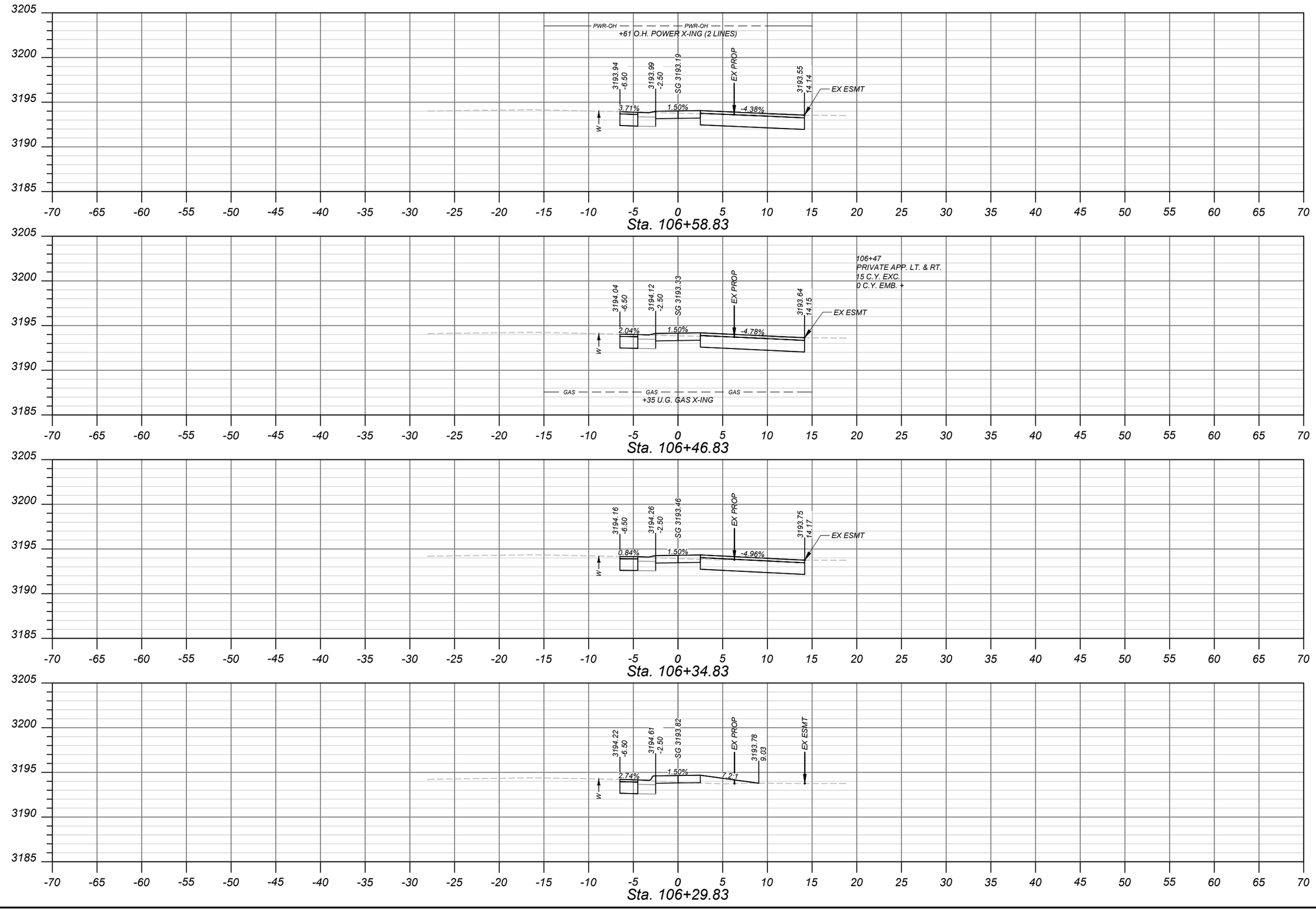
MONTANA
Department of Transportation

CROSS SECTIONS

2/12/2024 5:00 PM

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CROSS SECTIONS
SEGMENT A



SANDERSON STEWART

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	RRB
	02/14/24	02/14/24	02/14/24

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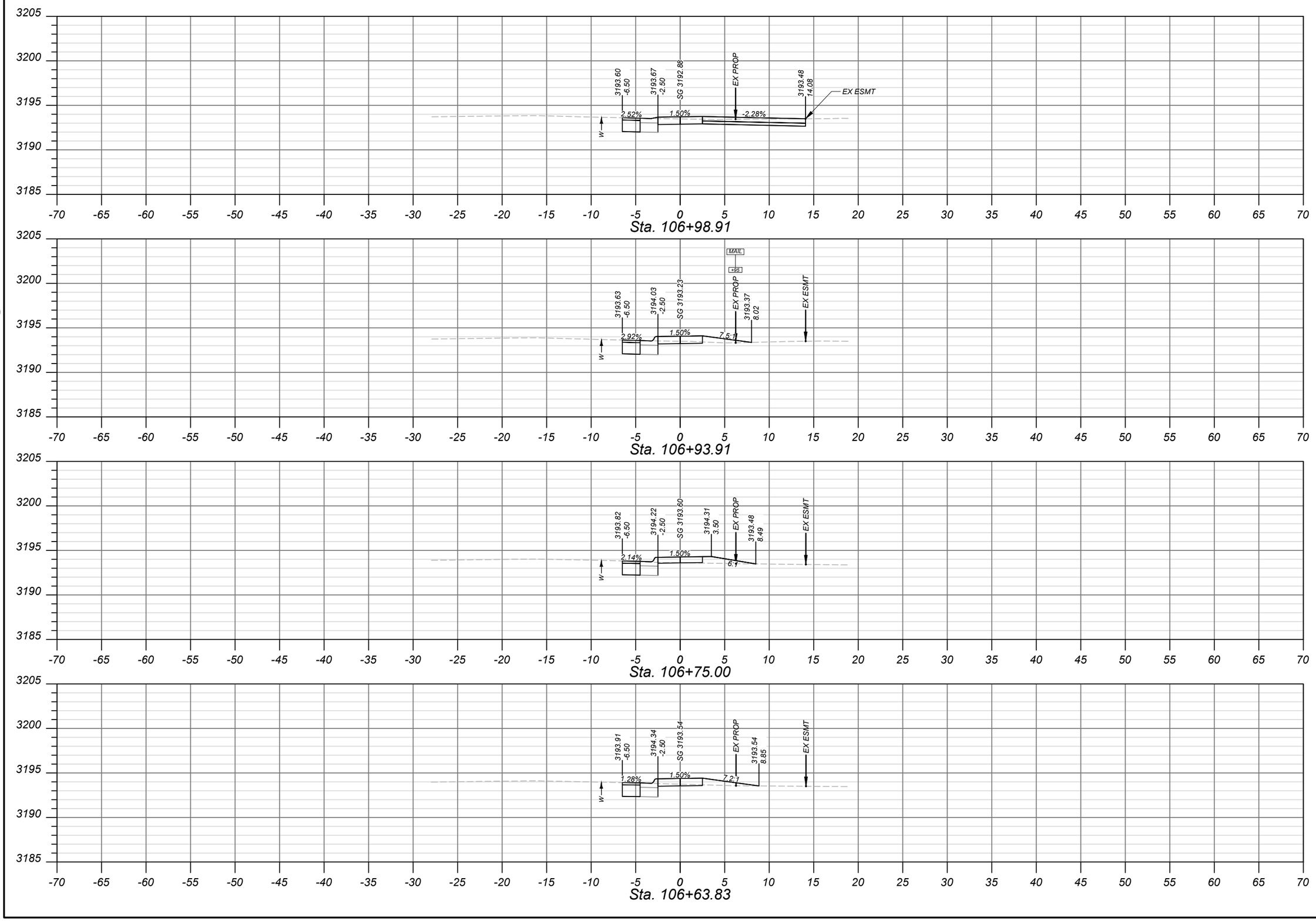
MONTANA
Department of Transportation

CROSS SECTIONS

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AWARD COPY



SANDERSON STEWART

SHEET NO.
9

CROSS SECTIONS
SEGMENT A

PROJECT NAME	SCHOOL SIDEWALKS - LOLO		
COUNTY	MISSOULA COUNTY		
PROJECT ID	TA 32(119)		
UPN	10101000		
CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	

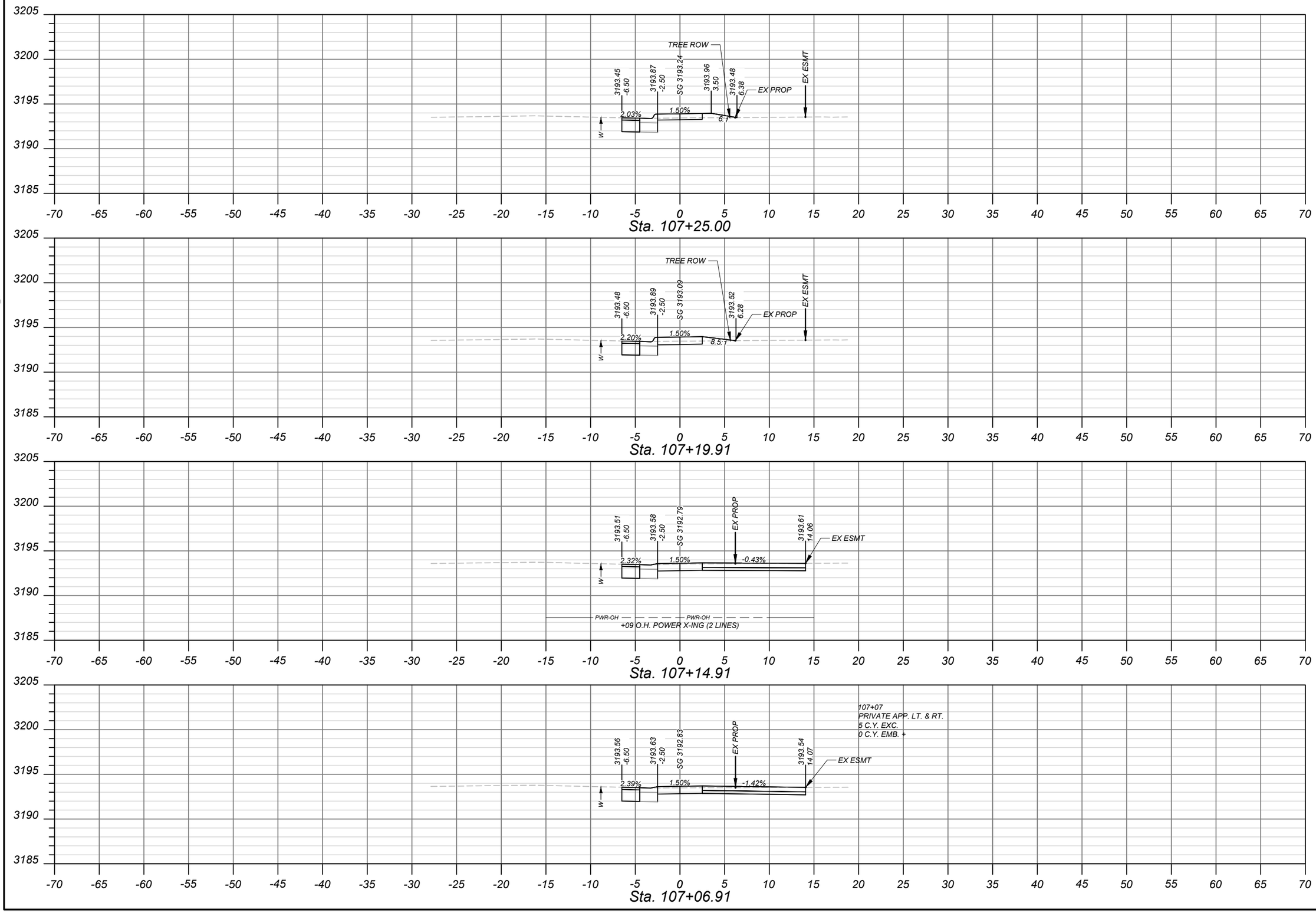
MONTANA
Department of Transportation

CROSS SECTIONS

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SANDERSON STEWART

SHEET NO.
10

CROSS SECTIONS
SEGMENT A

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

10101000RDLAY201.DWG

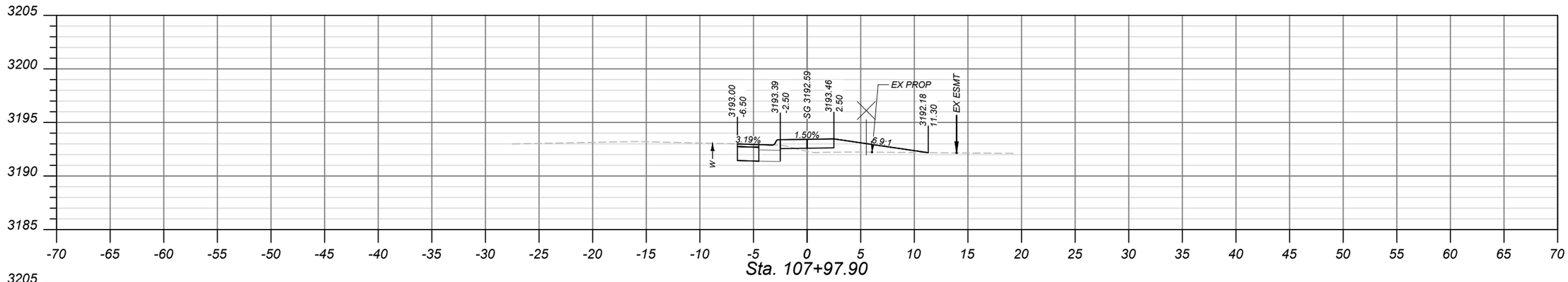
MONTANA
Department of Transportation

CROSS SECTIONS

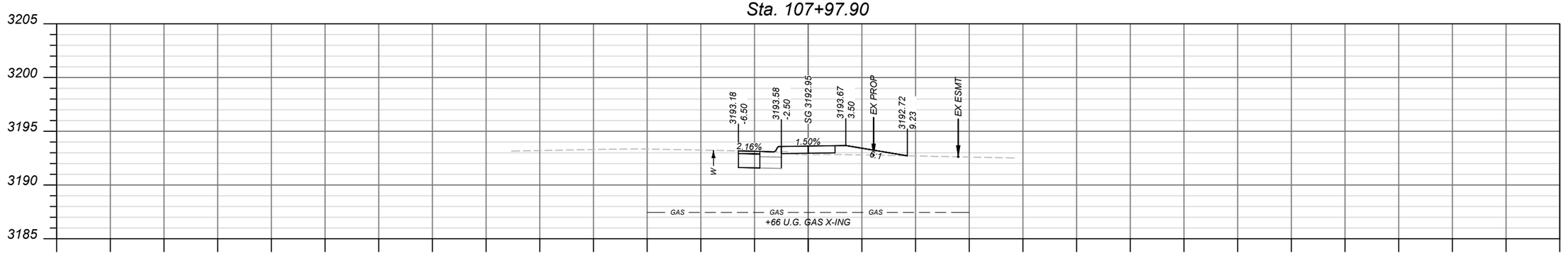
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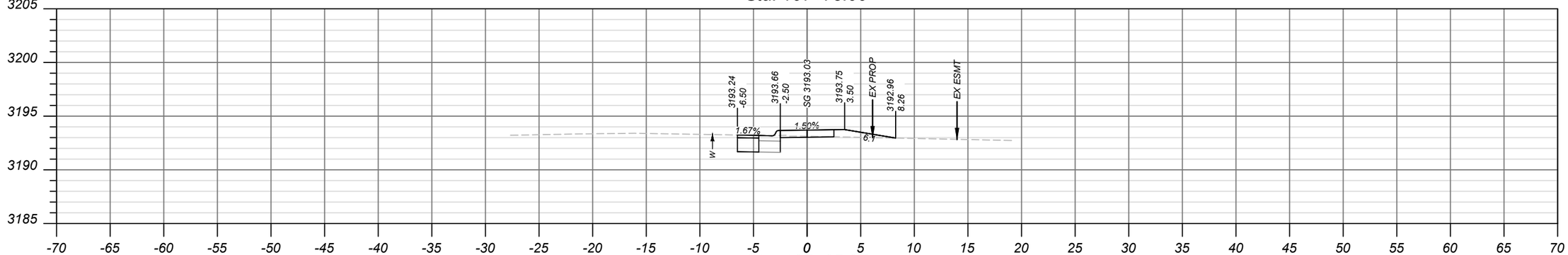
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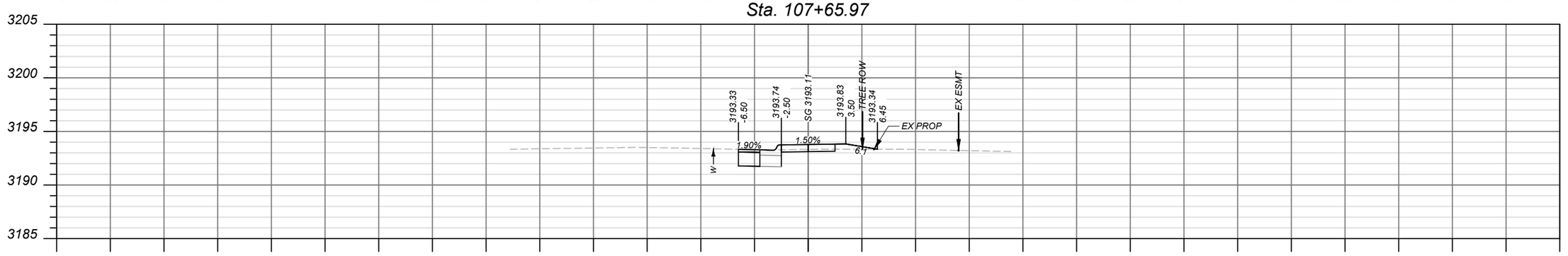
Sta. 107+97.90



Sta. 107+75.00



Sta. 107+65.97



Sta. 107+50.00

SANDERSON STEWART

SHEET NO.
11

CROSS SECTIONS
SEGMENT A

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	

10101000RDLAYZ01.DWG

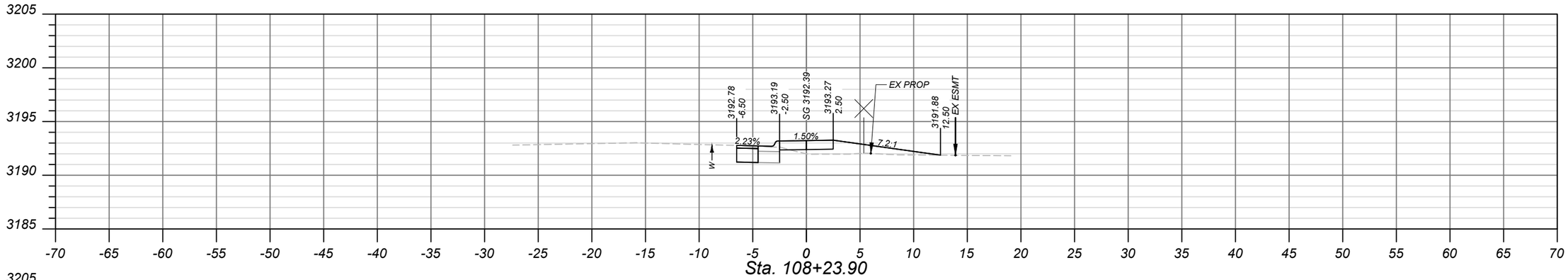
MONTANA
Department of Transportation

CROSS SECTIONS

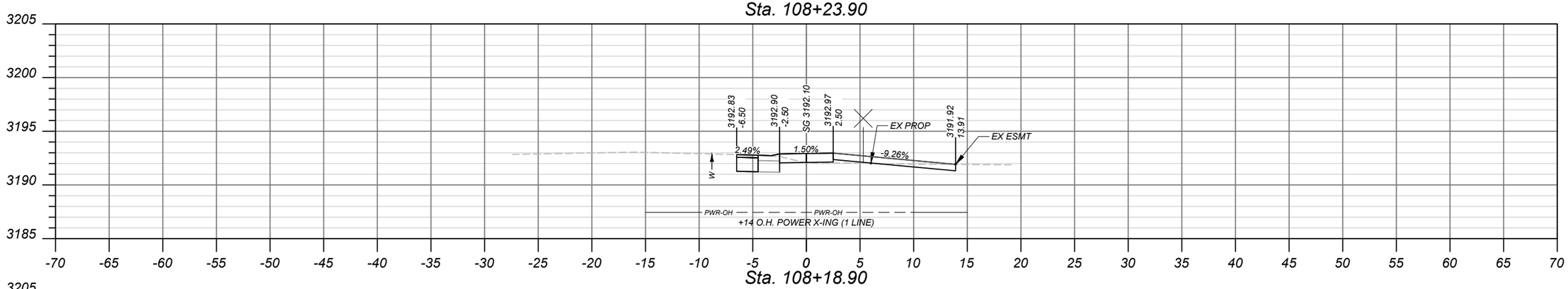
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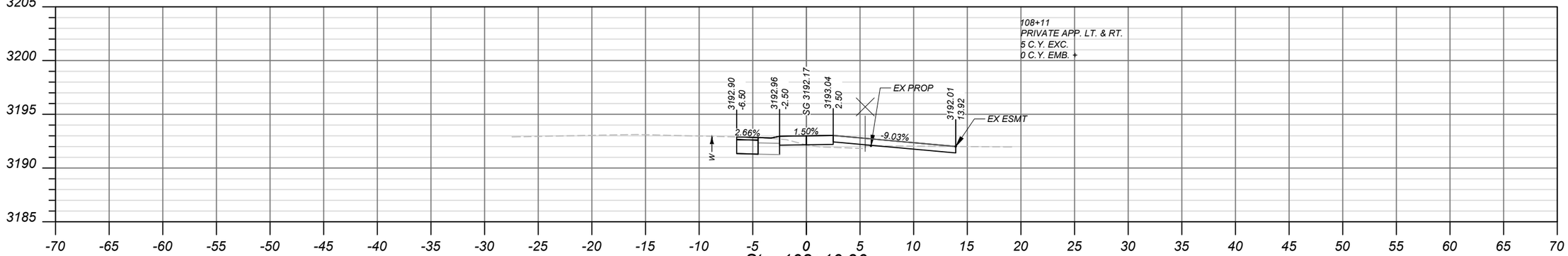
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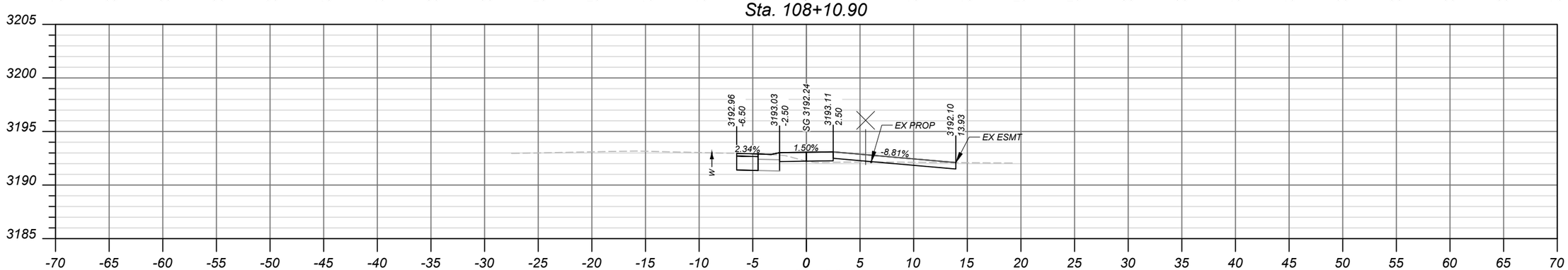
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Sta. 108+18.90



Sta. 108+10.90



Sta. 108+02.90

SANDERSON STEWART

SHEET NO.
12

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	KBK	DRS	RRB
	02/14/24	02/14/24	02/14/24

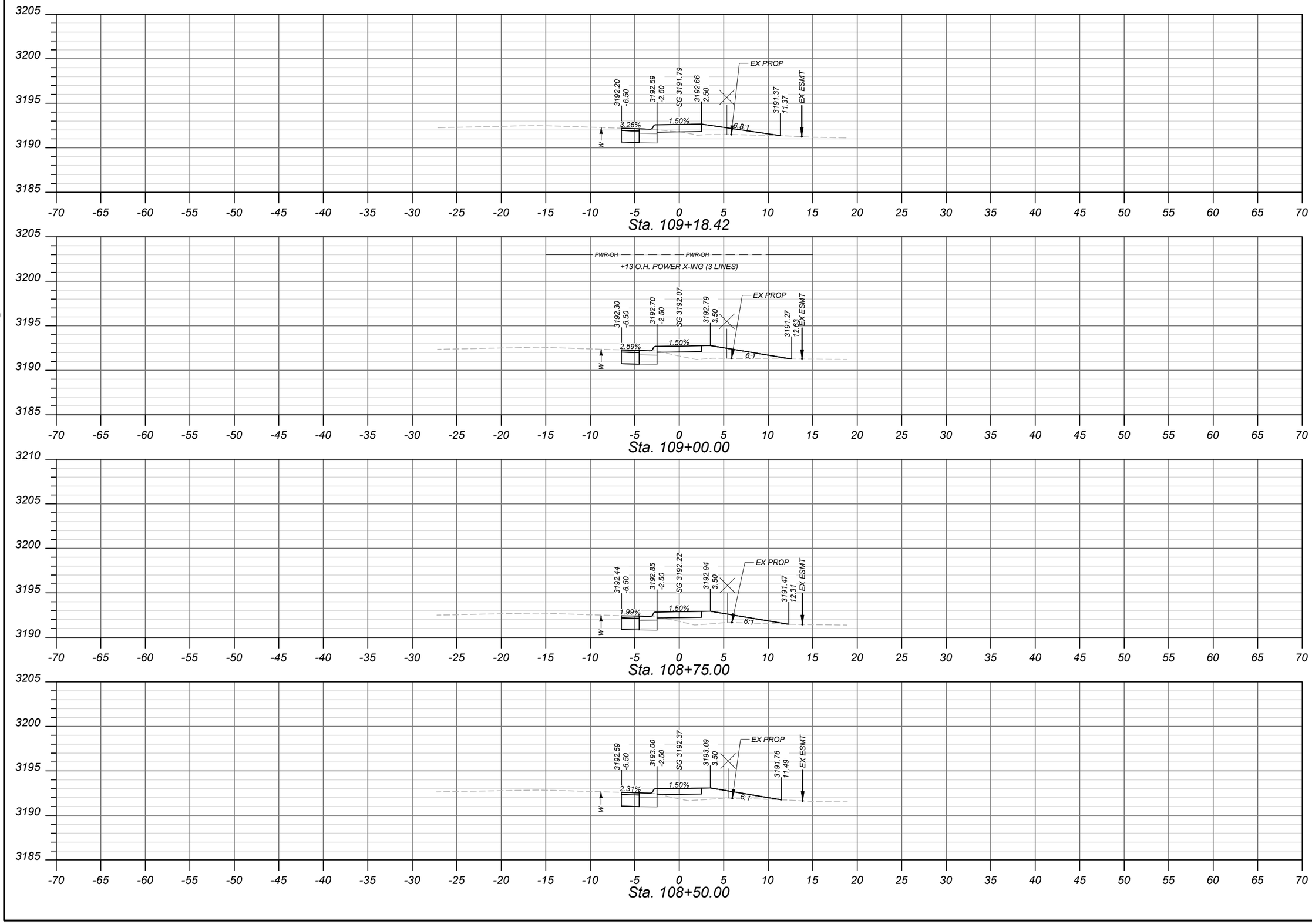
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MONTANA
Department of Transportation

CROSS SECTIONS

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SANDERSON STEWART

SHEET NO.
13

CROSS SECTIONS
SEGMENT A

PROJECT NAME	SCHOOL SIDEWALKS - LOLO		
COUNTY	MISSOULA COUNTY		
PROJECT ID	TA 32(119)		
UPN	10101000		
DESIGNED BY	RRB	02/14/24	
REVIEWED BY	DRS	02/14/24	
CHECKED BY	KBK	02/14/24	

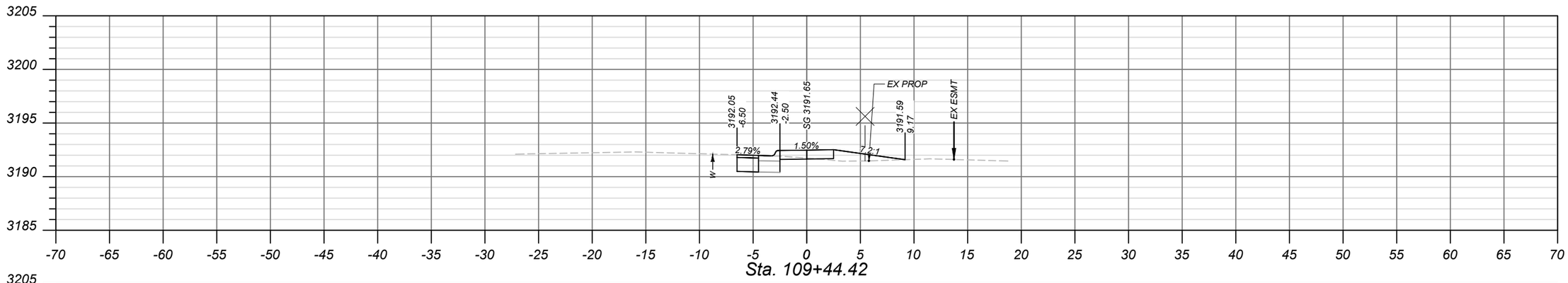
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MONTANA
Department of Transportation

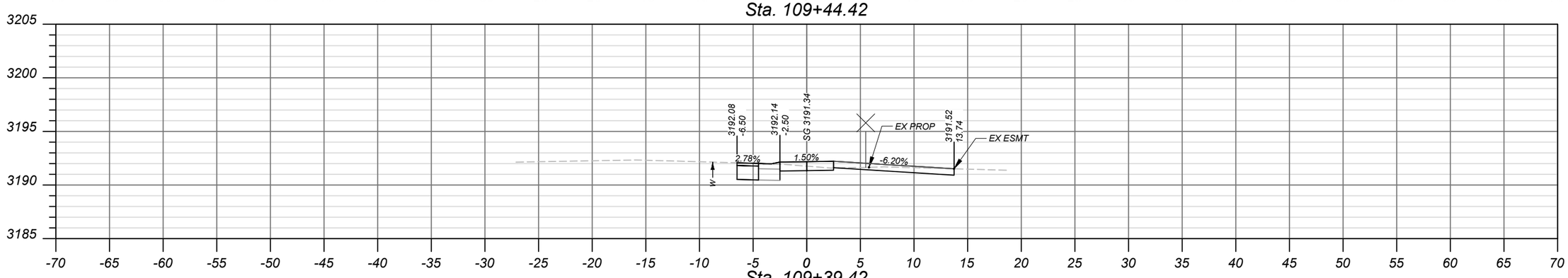
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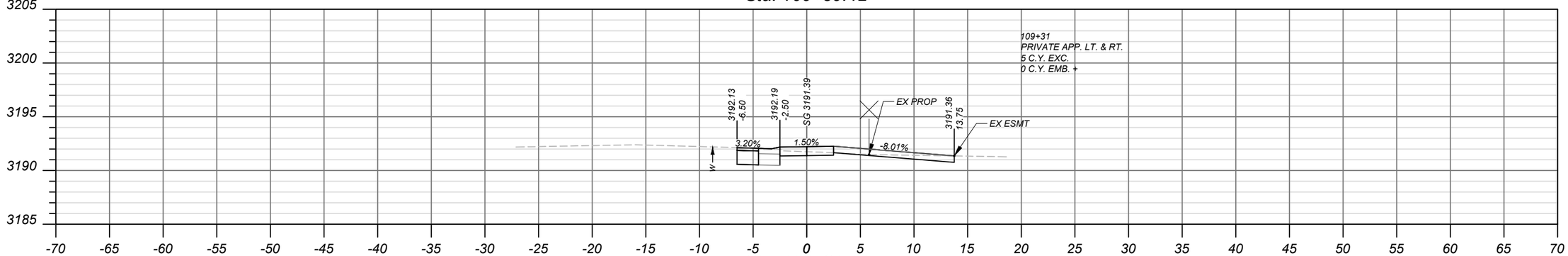
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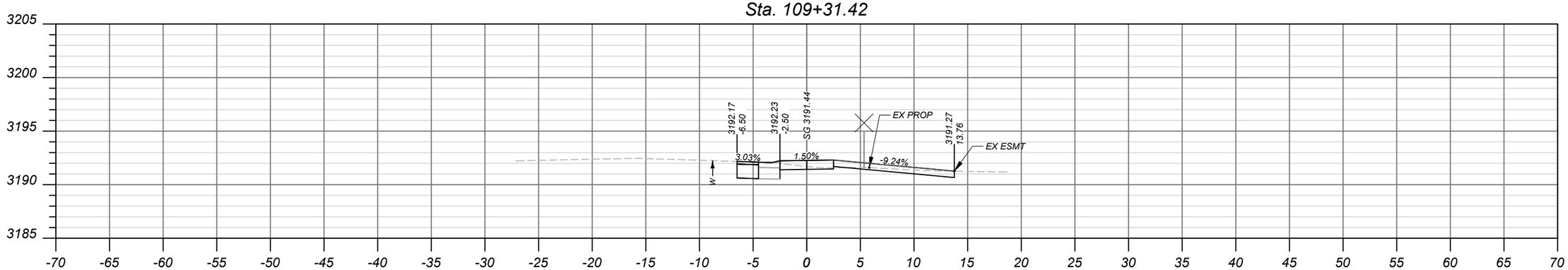
Sta. 109+44.42



Sta. 109+39.42



Sta. 109+31.42



Sta. 109+23.42

SANDERSON STEWART

SHEET NO.
14

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	

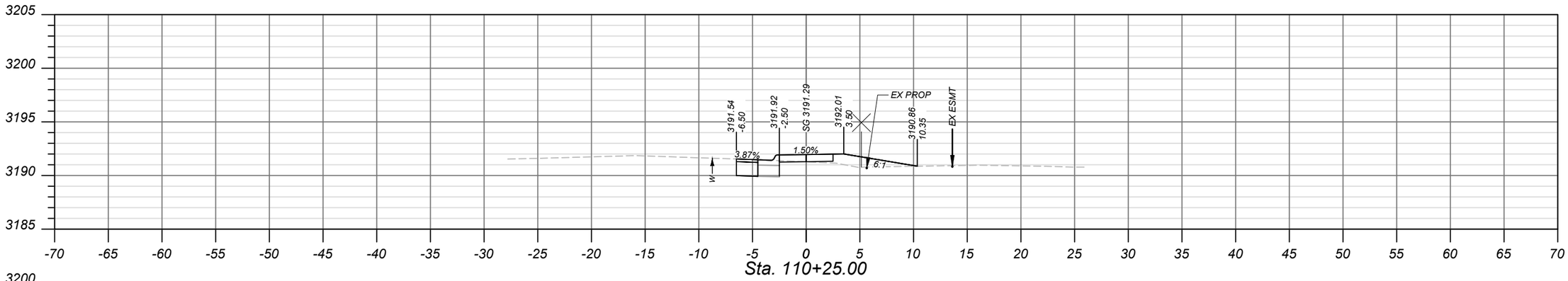
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MONTANA
Department of Transportation

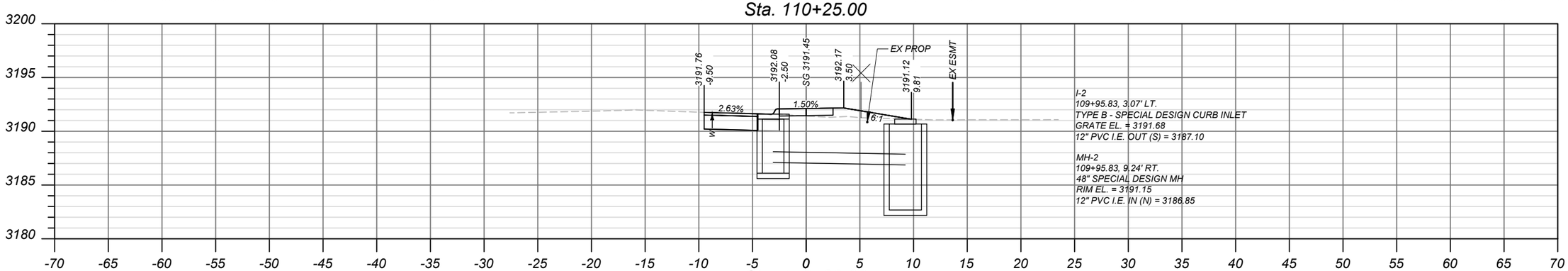
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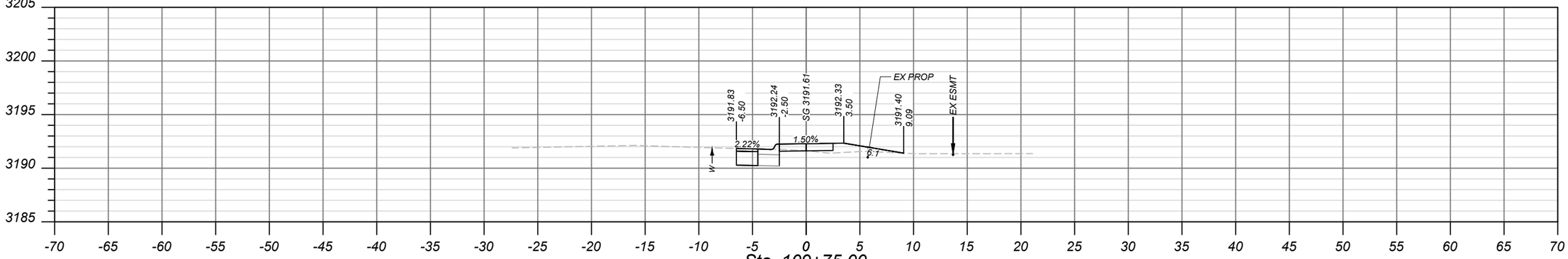
Sta. 110+25.00



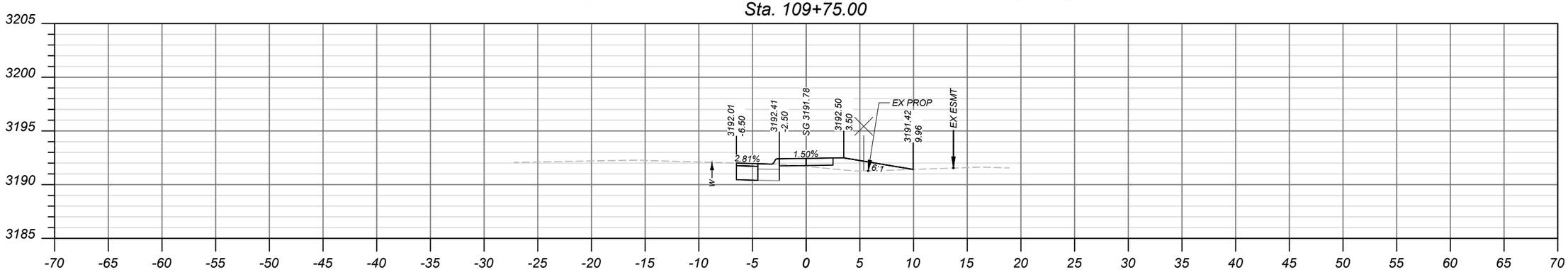
Sta. 110+00.00

I-2
109+95.83, 3.07' LT.
TYPE B - SPECIAL DESIGN CURB INLET
GRATE EL. = 3191.68
12" PVC I.E. OUT (S) = 3187.10

MH-2
109+95.83, 9.24' RT.
48" SPECIAL DESIGN MH
RIM EL. = 3191.15
12" PVC I.E. IN (N) = 3186.85



Sta. 109+75.00



Sta. 109+50.00

SANDERSON STEWART

SHEET NO.
15

CROSS SECTIONS
SEGMENT A

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

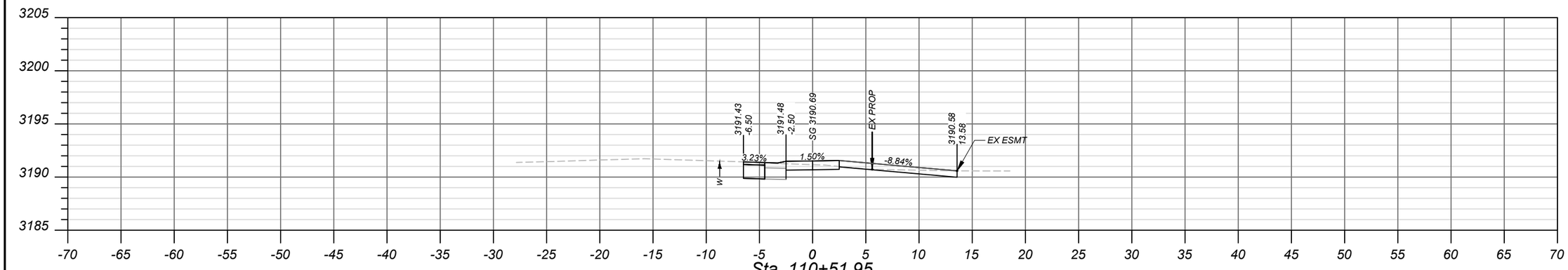
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MONTANA
Department of Transportation

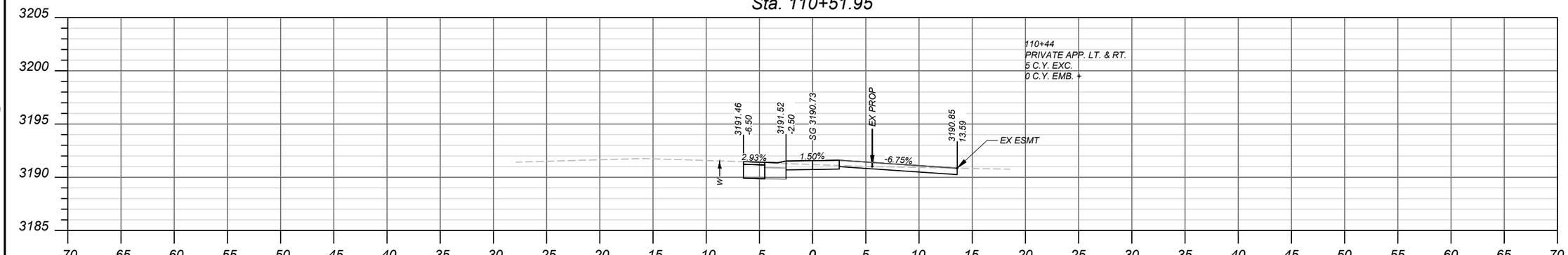
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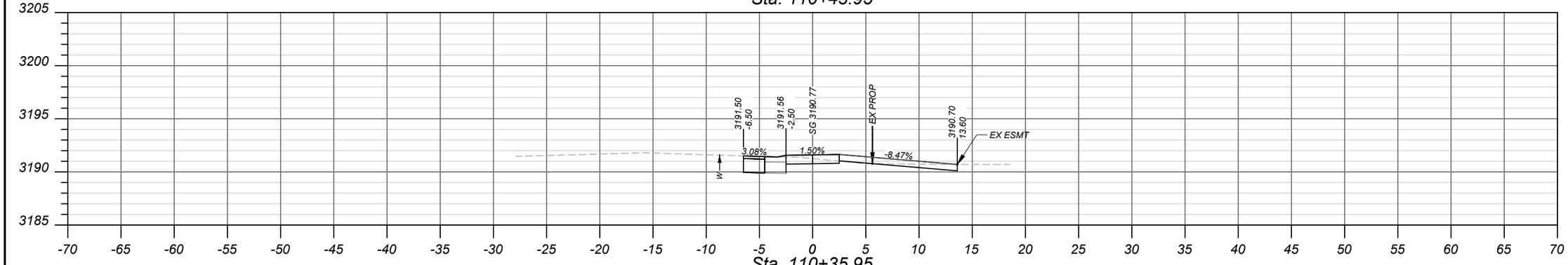
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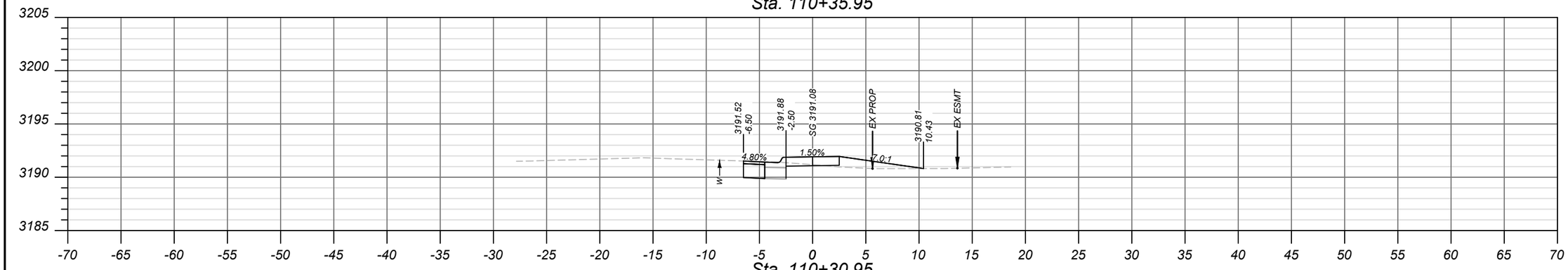
Sta. 110+51.95



Sta. 110+43.95



Sta. 110+35.95



Sta. 110+30.95

SANDERSON STEWART

SHEET NO.
16

CROSS SECTIONS
SEGMENT A

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

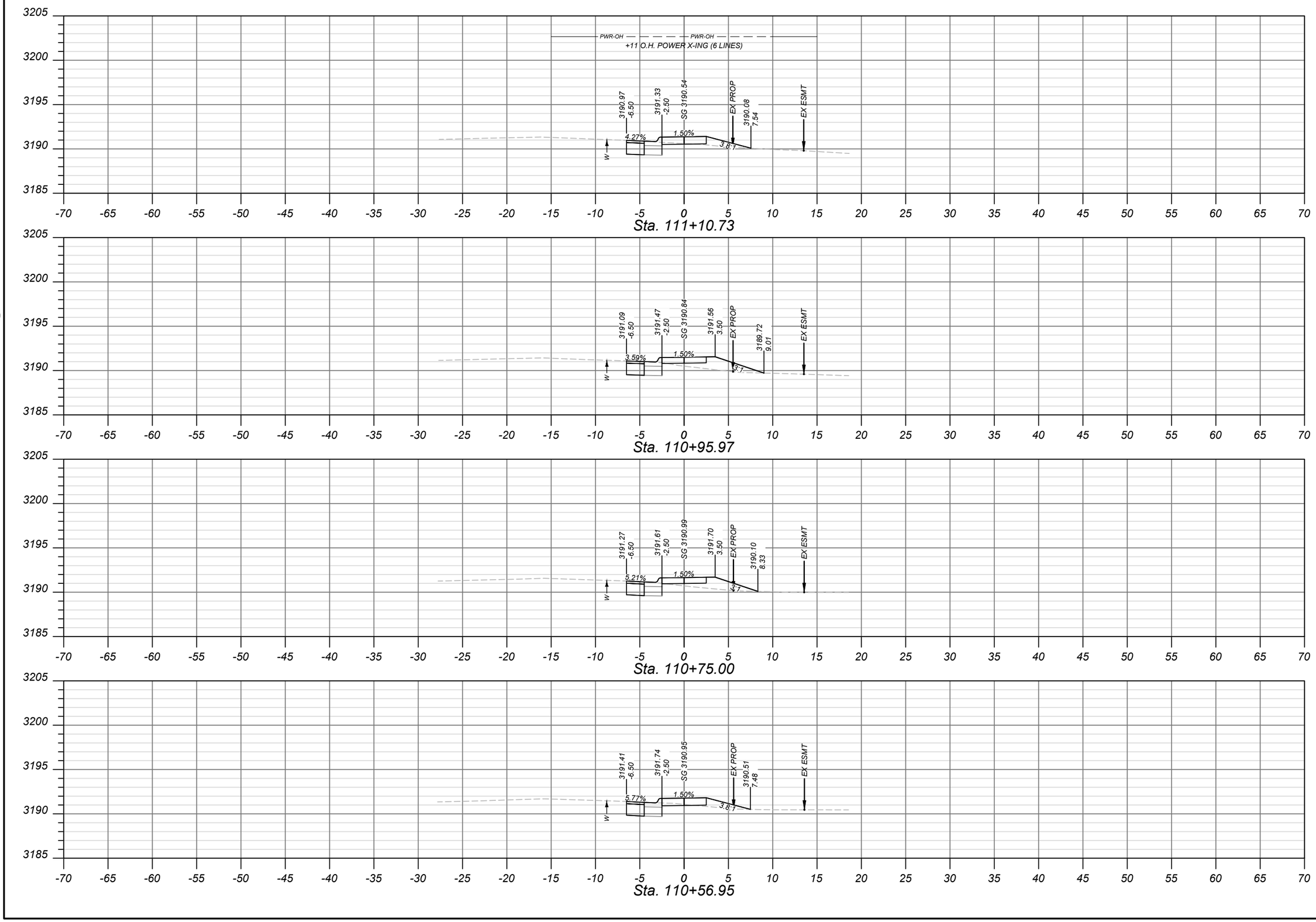
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MONTANA
Department of Transportation

CROSS SECTIONS

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SANDERSON STEWART

SHEET NO.
17

CROSS SECTIONS
SEGMENT A

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

10101000RDLAYZ02.DWG

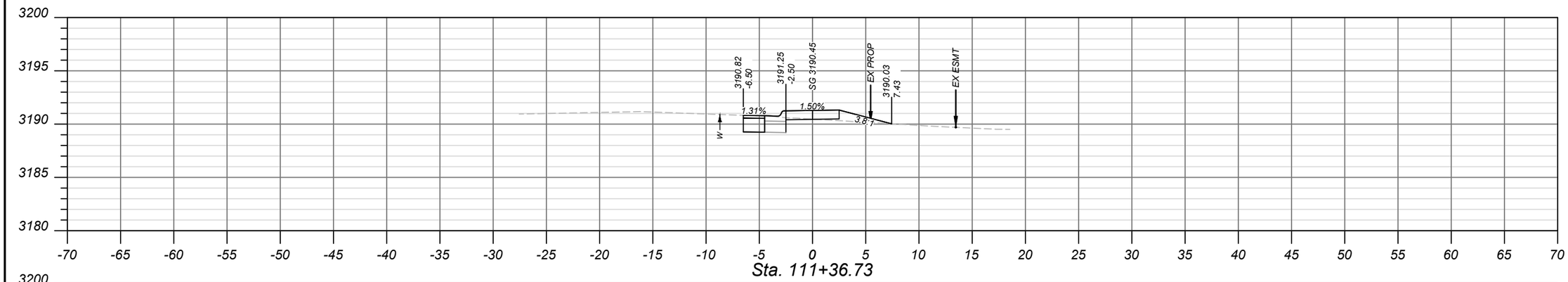
MONTANA
Department of Transportation

CROSS SECTIONS

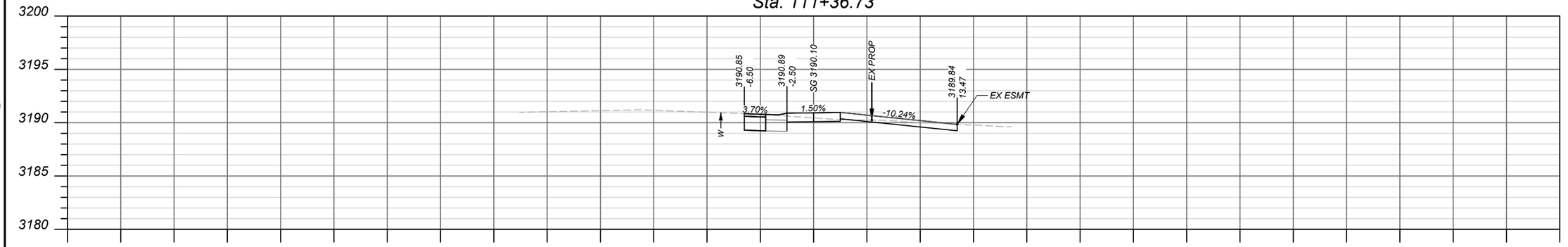
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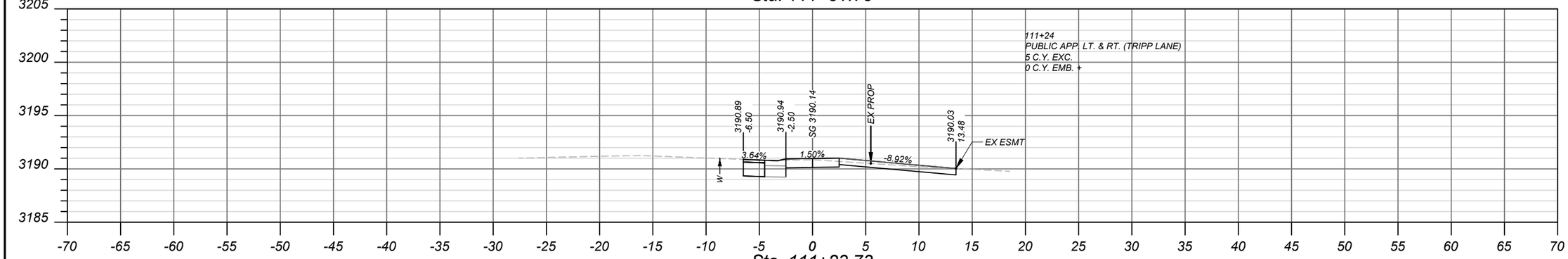


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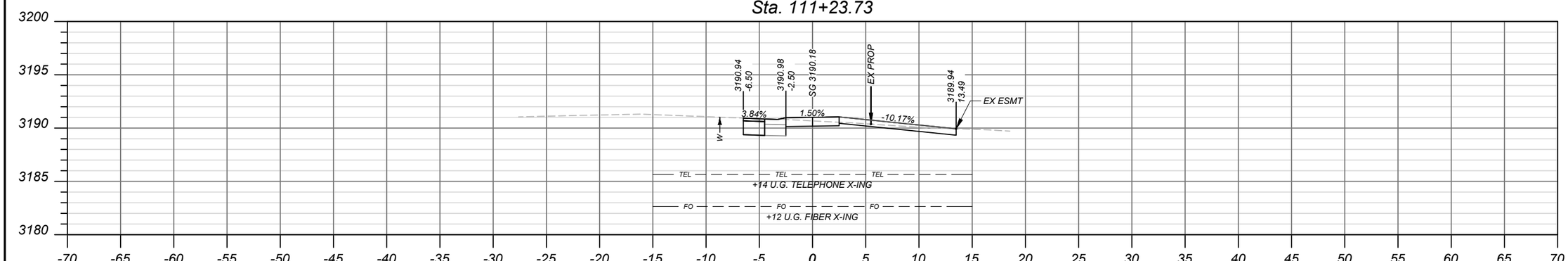


Sta. 111+31.73

111+24
PUBLIC APP. LT. & RT. (TRIPP LANE)
5 C.Y. EXC.
0 C.Y. EMB. +



Sta. 111+23.73



Sta. 111+15.73

SANDERSON STEWART

SHEET NO.
18

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

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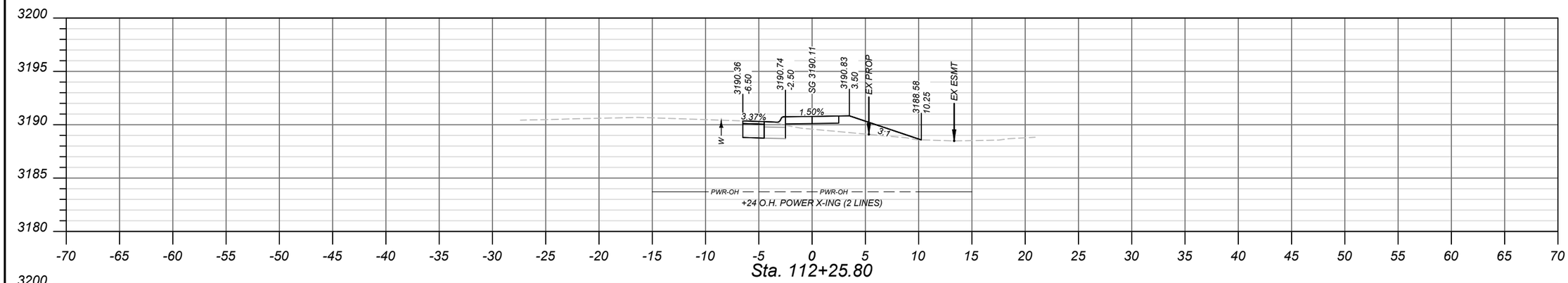
MONTANA
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CROSS SECTIONS

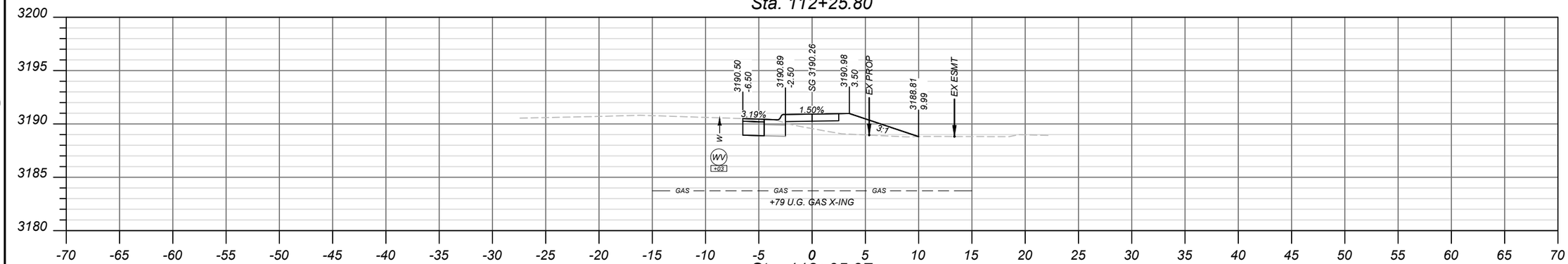
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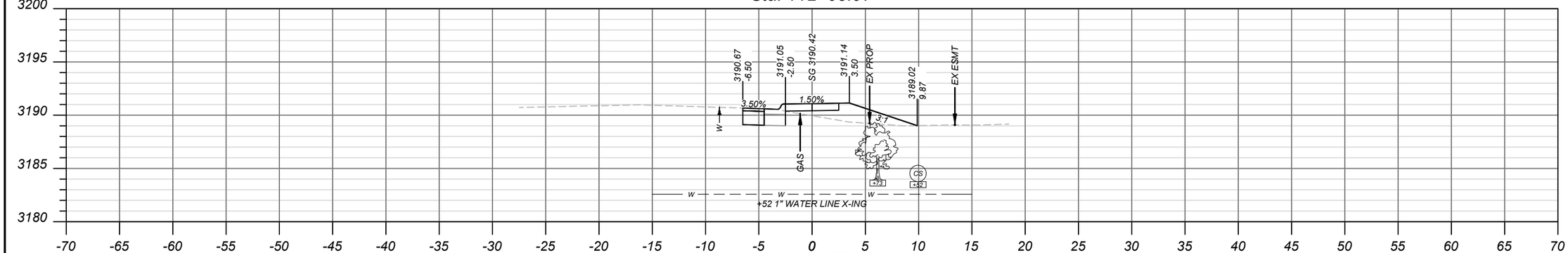
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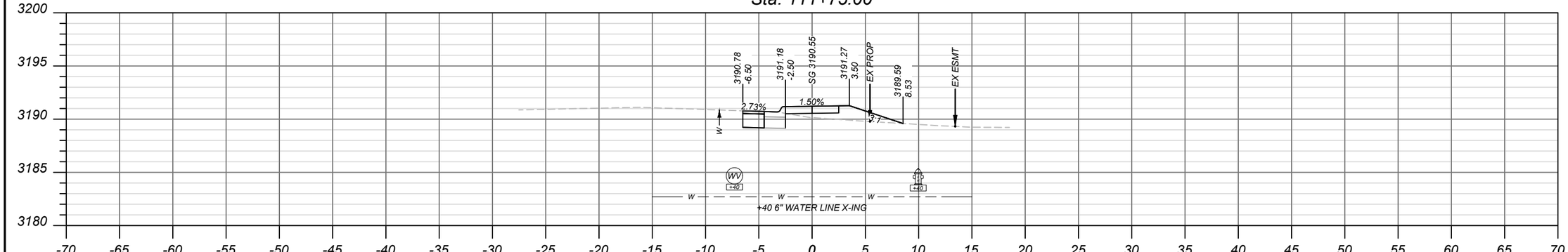
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Sta. 112+05.97



Sta. 111+75.00



Sta. 111+50.00

SANDERSON STEWART

SHEET NO.
19

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	KBK	02/14/24
	REVIEWED BY	DRS	02/14/24
	DESIGNED BY	RRB	02/14/24

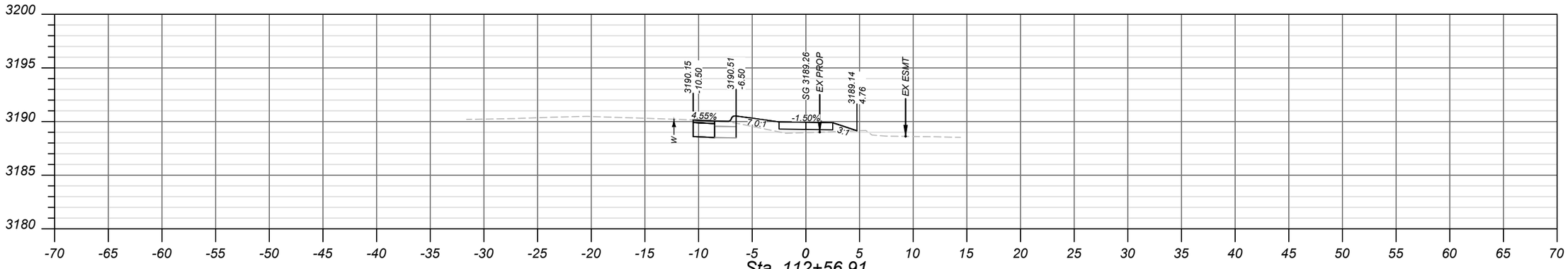
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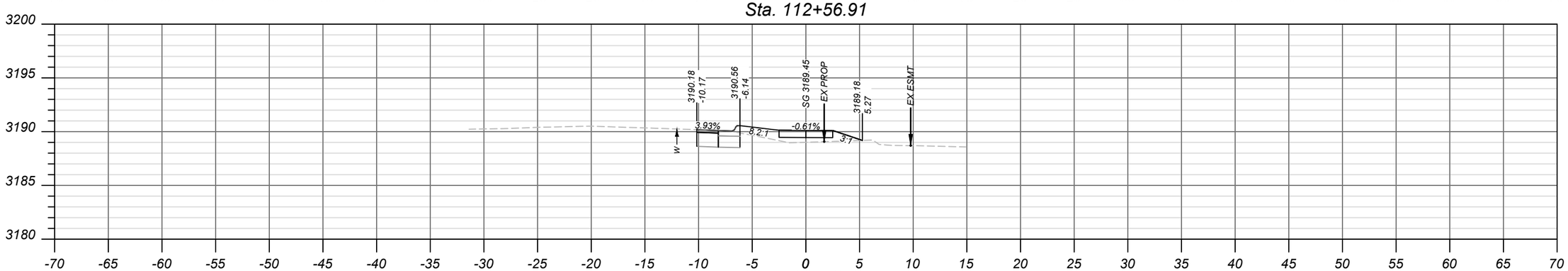
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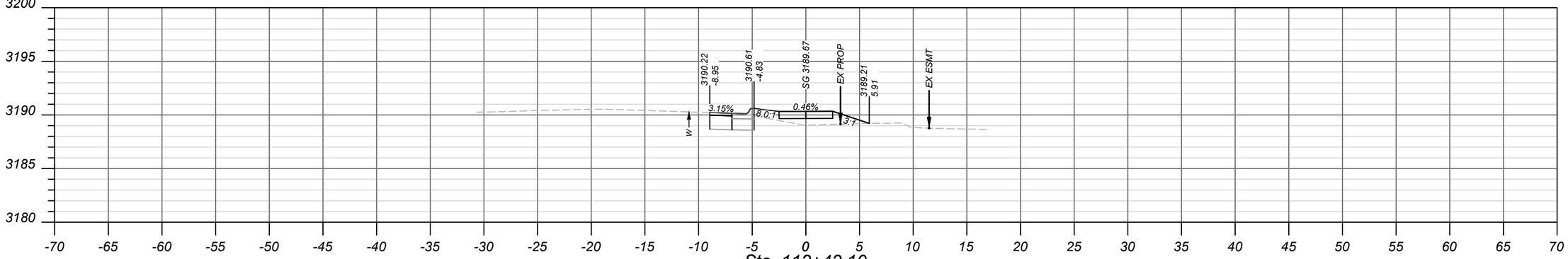
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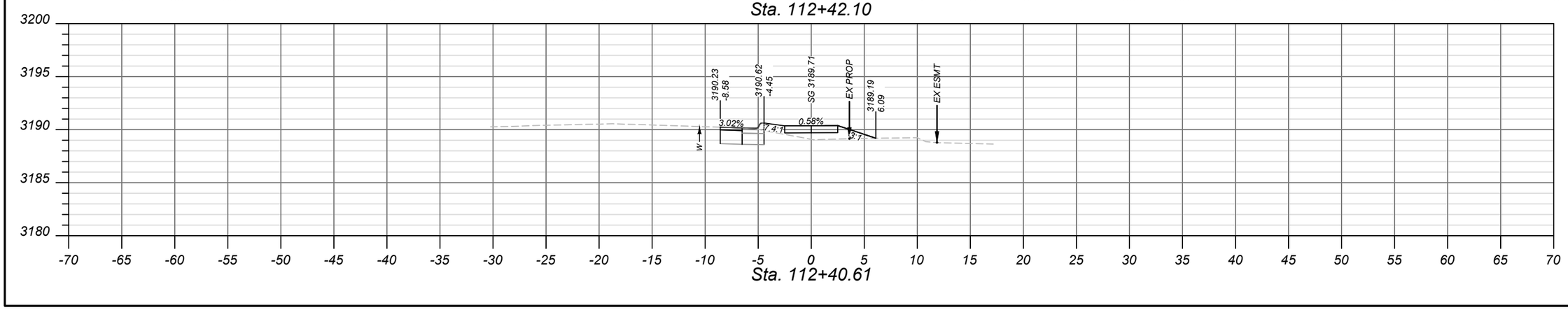
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Sta. 112+50.00



Sta. 112+42.10



Sta. 112+40.61

SANDERSON STEWART

SHEET NO.
20

CROSS SECTIONS
SEGMENT A

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

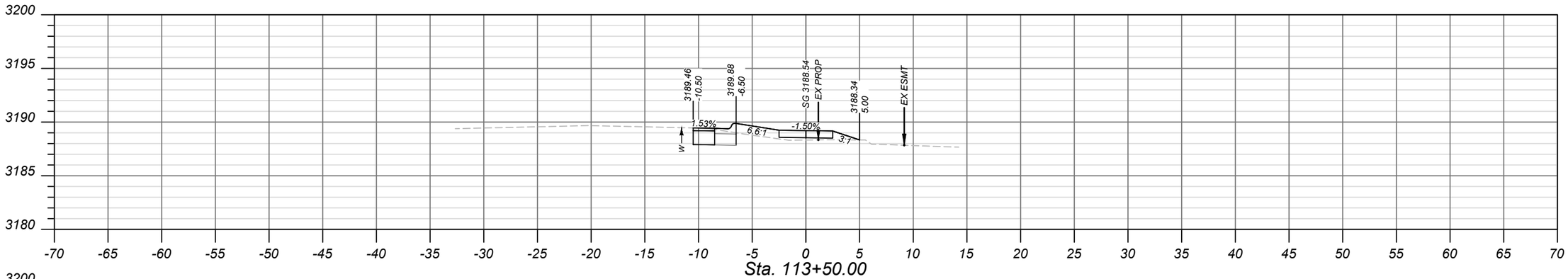
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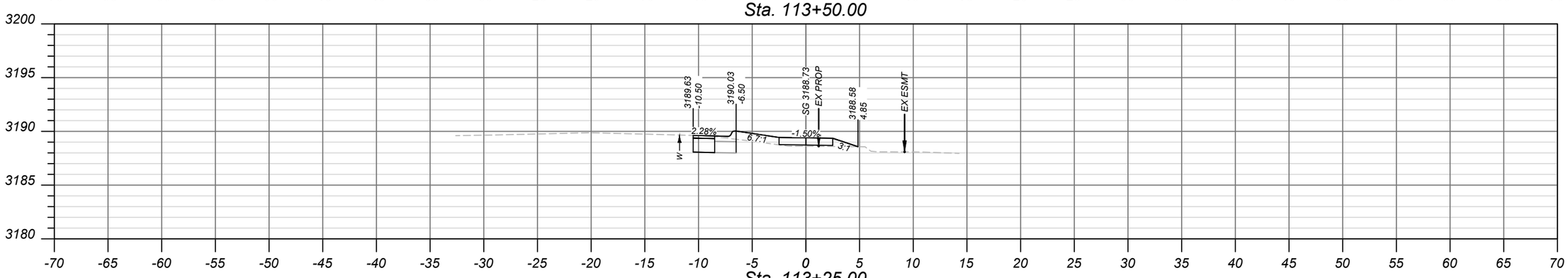
MONTANA
Department of Transportation

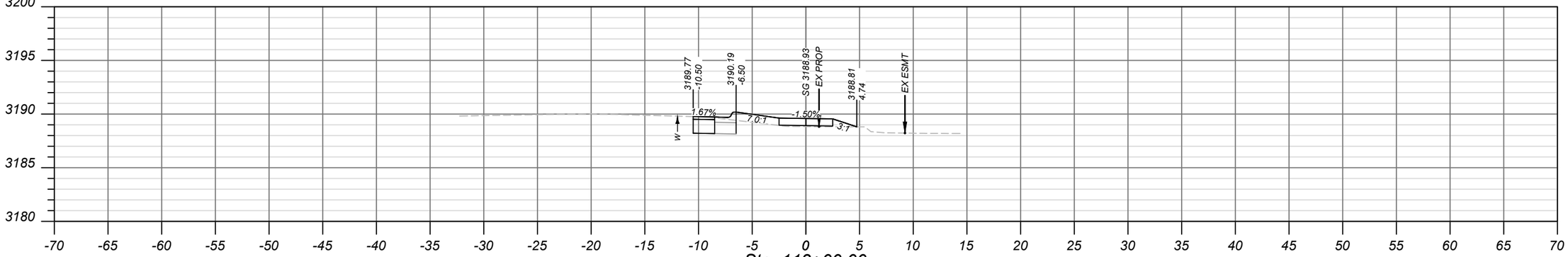
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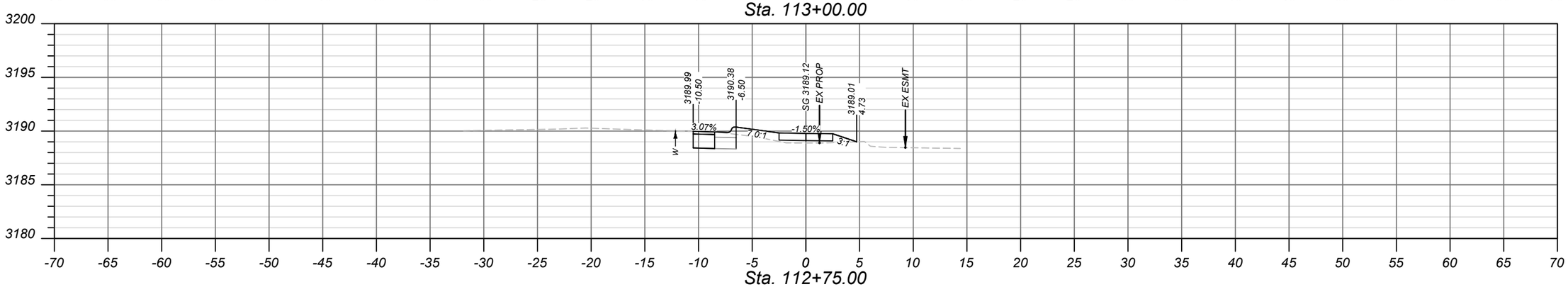
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SANDERSON STEWART

SHEET NO.
21

CROSS SECTIONS
SEGMENT A

PROJECT NAME	SCHOOL SIDEWALKS - LOLO
COUNTY	MISSOULA COUNTY
PROJECT ID	TA 32(119)
UPN	101010000

CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	10101000RDLAYZ02.DWG

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SANDERSON STEWART

SHEET NO.
22

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

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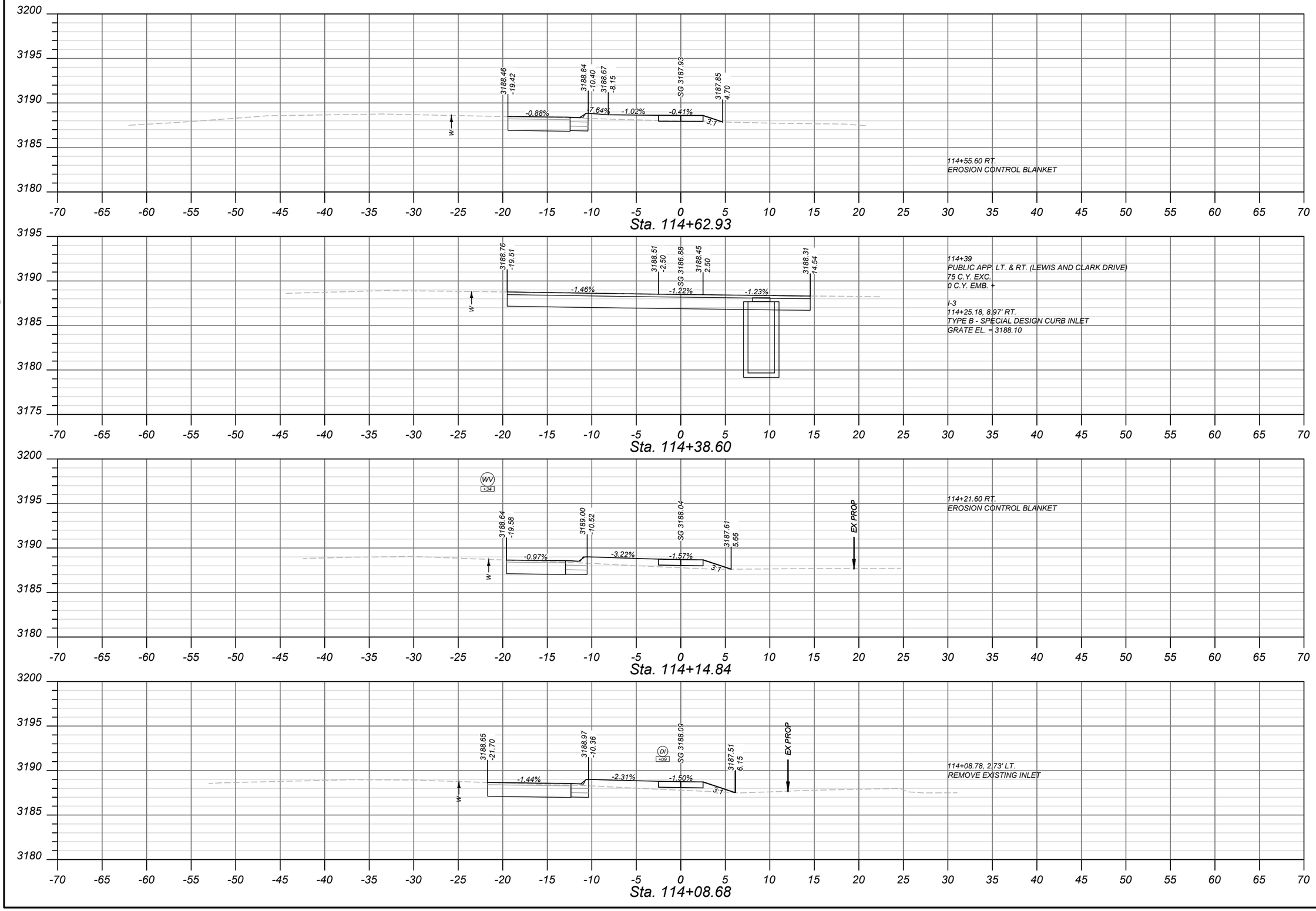
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SHEET NO.
23

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

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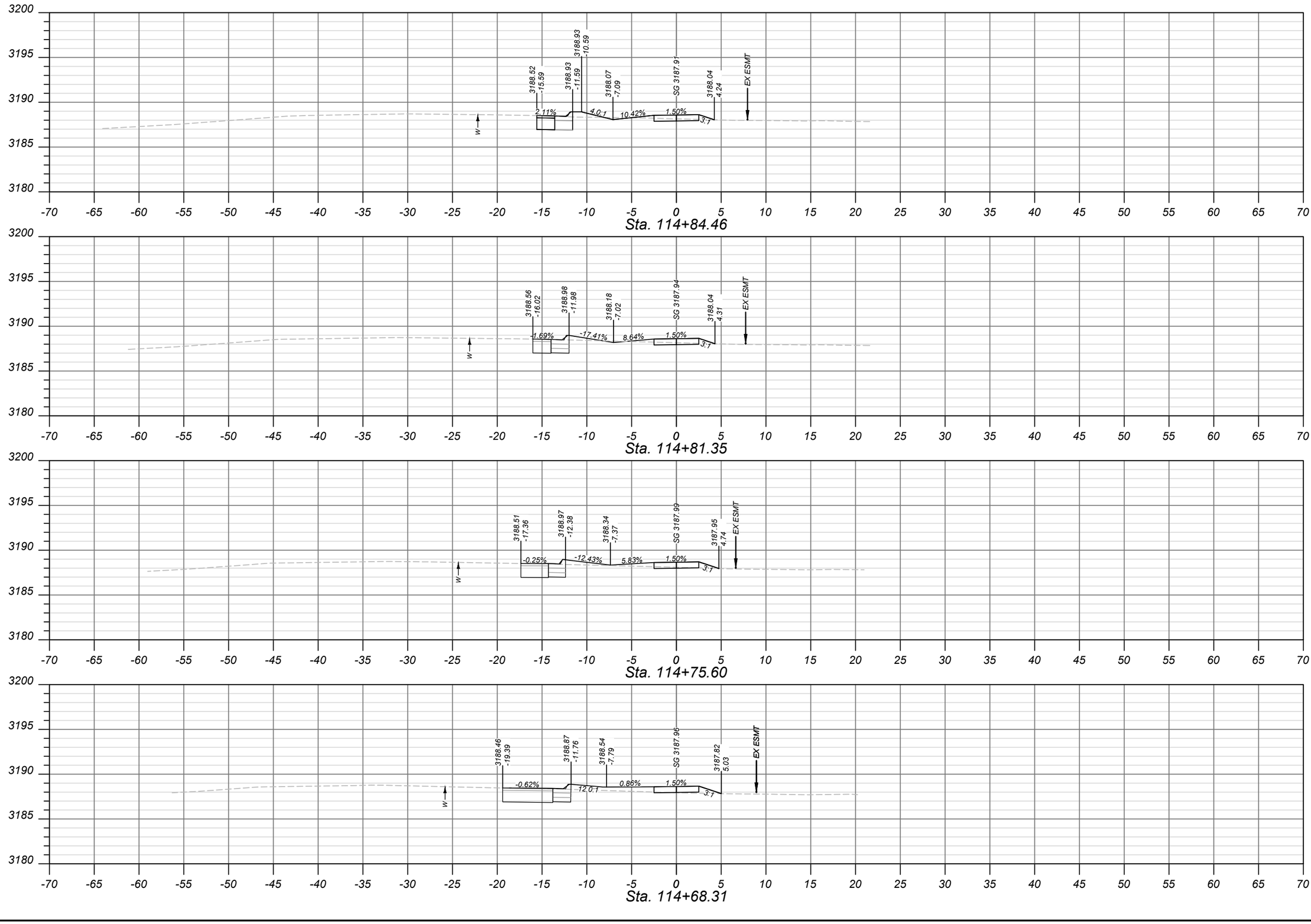
MONTANA
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SHEET NO.
24

CROSS SECTIONS
SEGMENT A

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

	CHECKED BY	KBK	02/14/24
	REVIEWED BY	DRS	02/14/24
	DESIGNED BY	RRB	02/14/24

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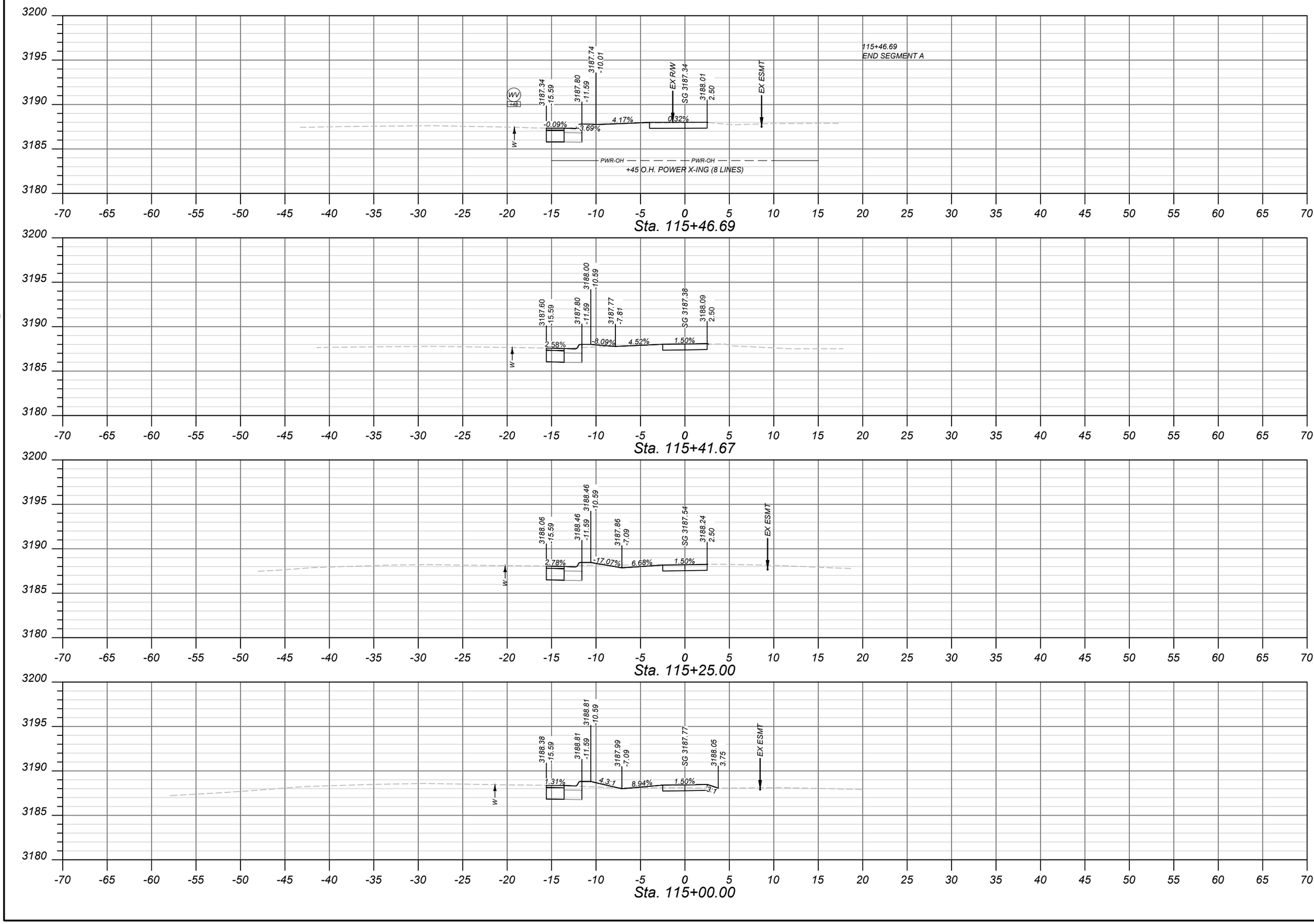
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SHEET NO.
25

CROSS SECTIONS
SEGMENT A

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

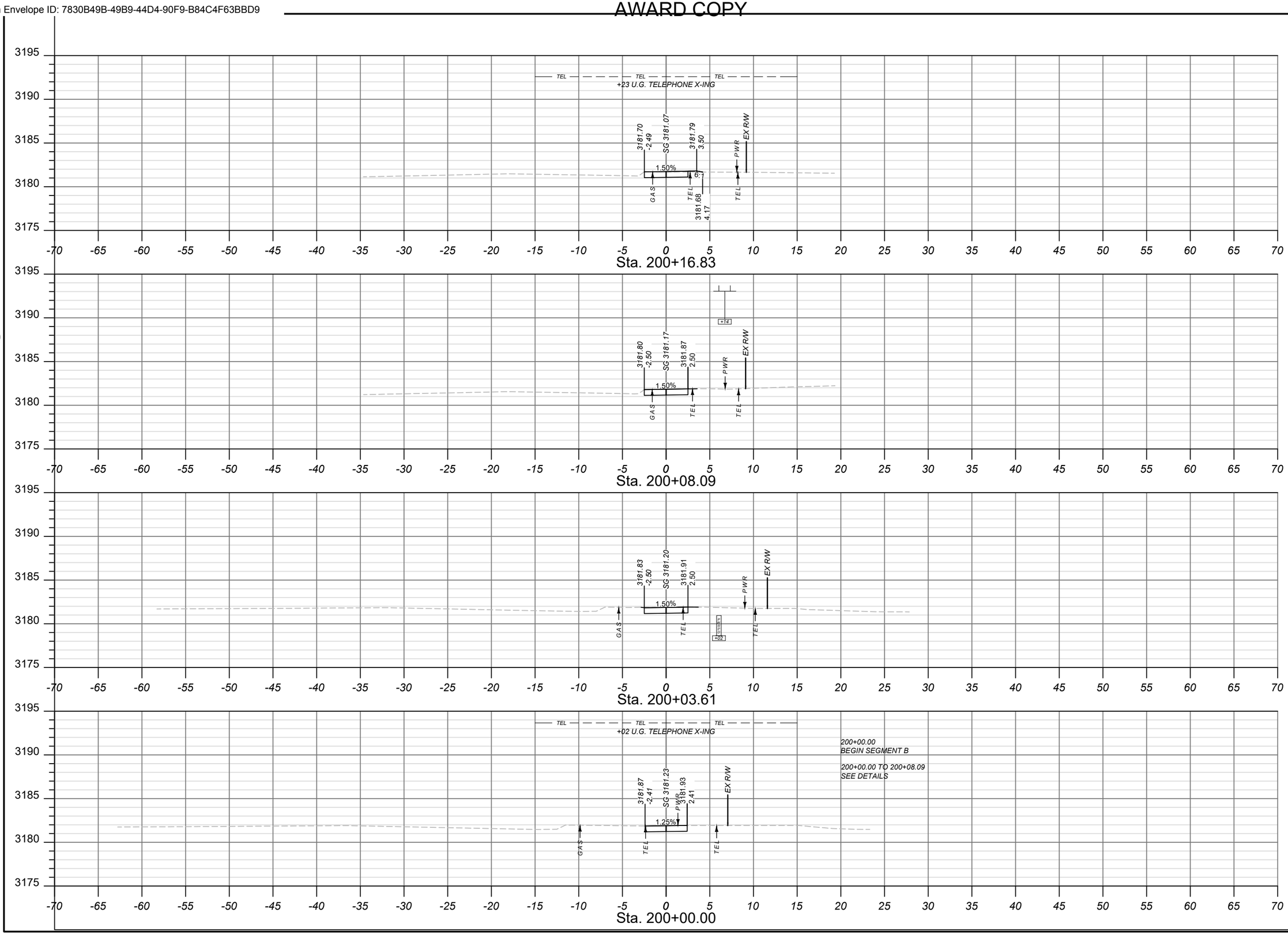
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SHEET NO.
26

CROSS SECTIONS
SEGMENT B

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
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DESIGNED BY	RRB	02/14/24

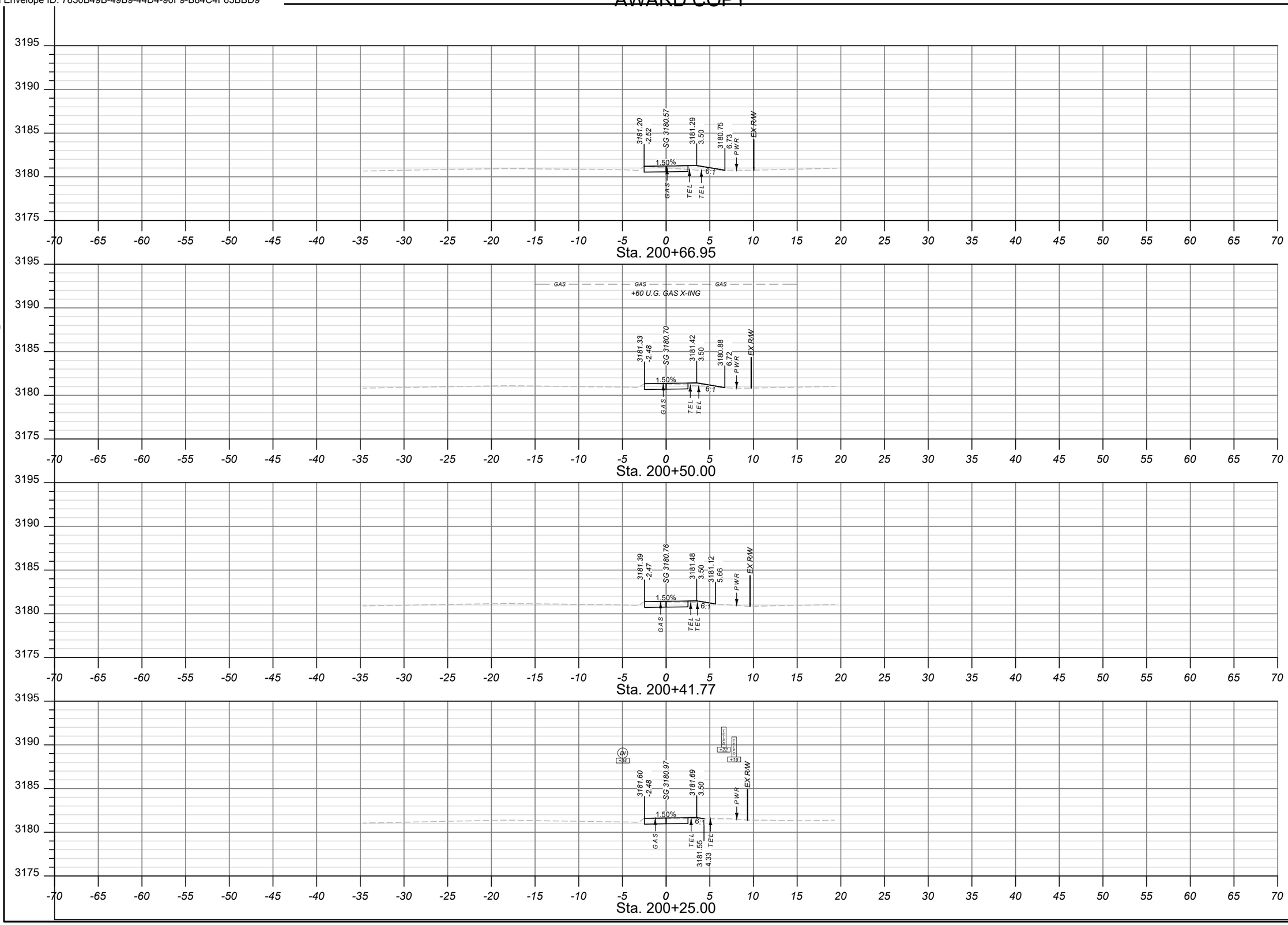
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SANDERSON STEWART

SHEET NO.
27

CROSS SECTIONS
SEGMENT B

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
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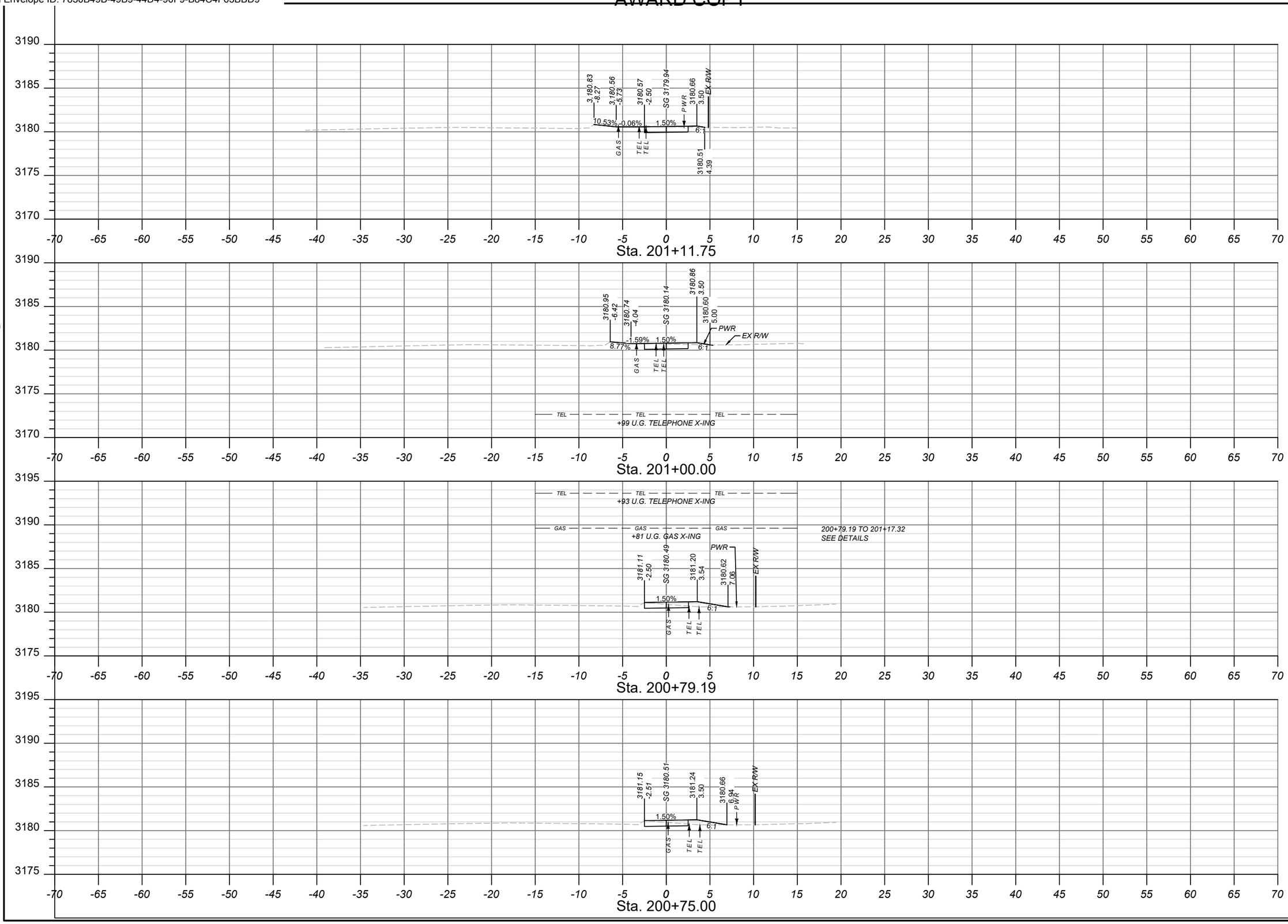
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SANDERSON STEWART

SHEET NO.
28

CROSS SECTIONS
SEGMENT B

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

CHECKED BY	KBK	02/14/24
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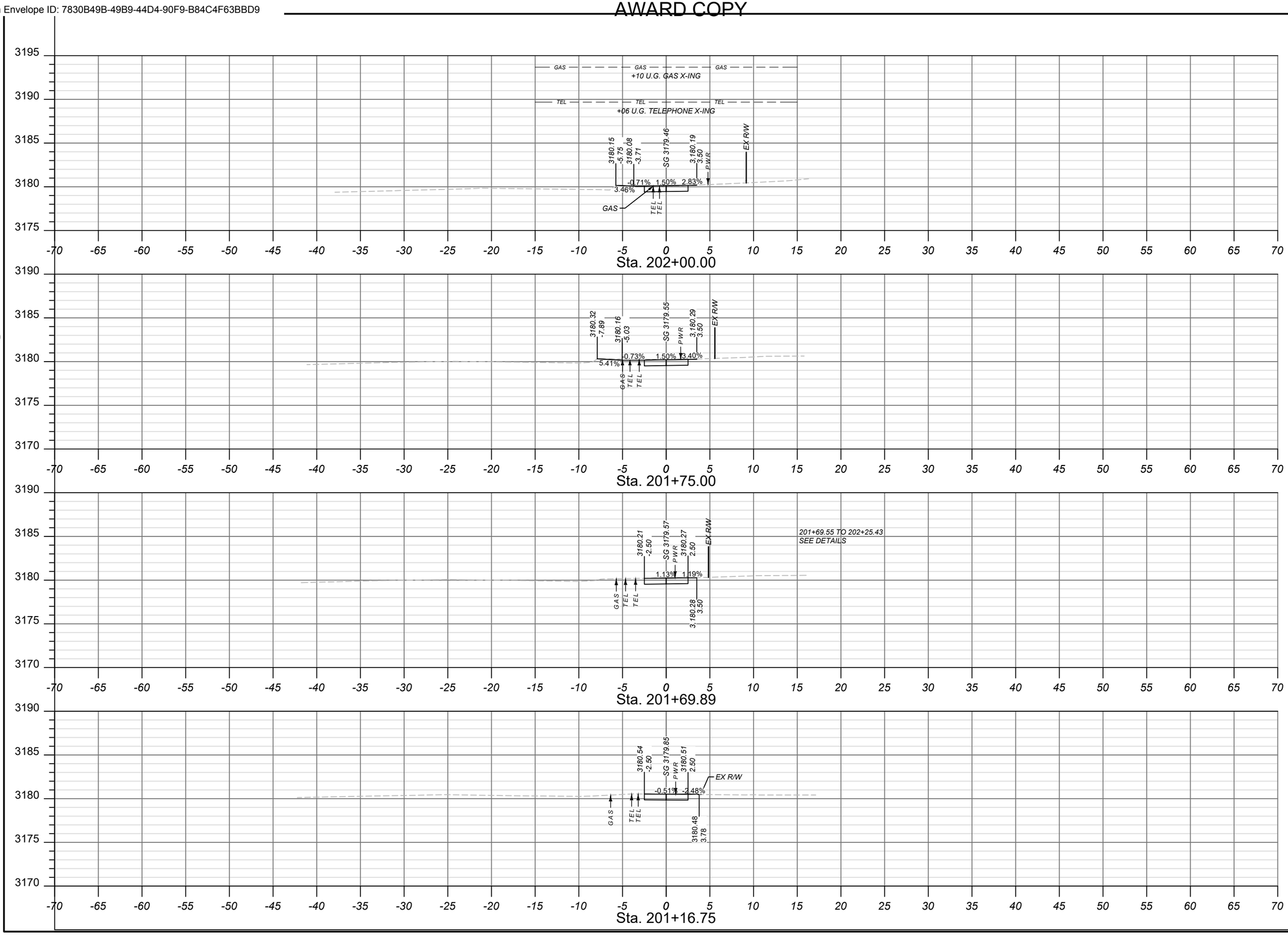
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Department of Transportation

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SANDERSON STEWART

SHEET NO.
29

CROSS SECTIONS
SEGMENT B

PROJECT NAME: SCHOOL SIDEWALKS - LOLO
COUNTY: MISSOULA COUNTY
PROJECT ID: TA 32(119)
UPN: 10101000

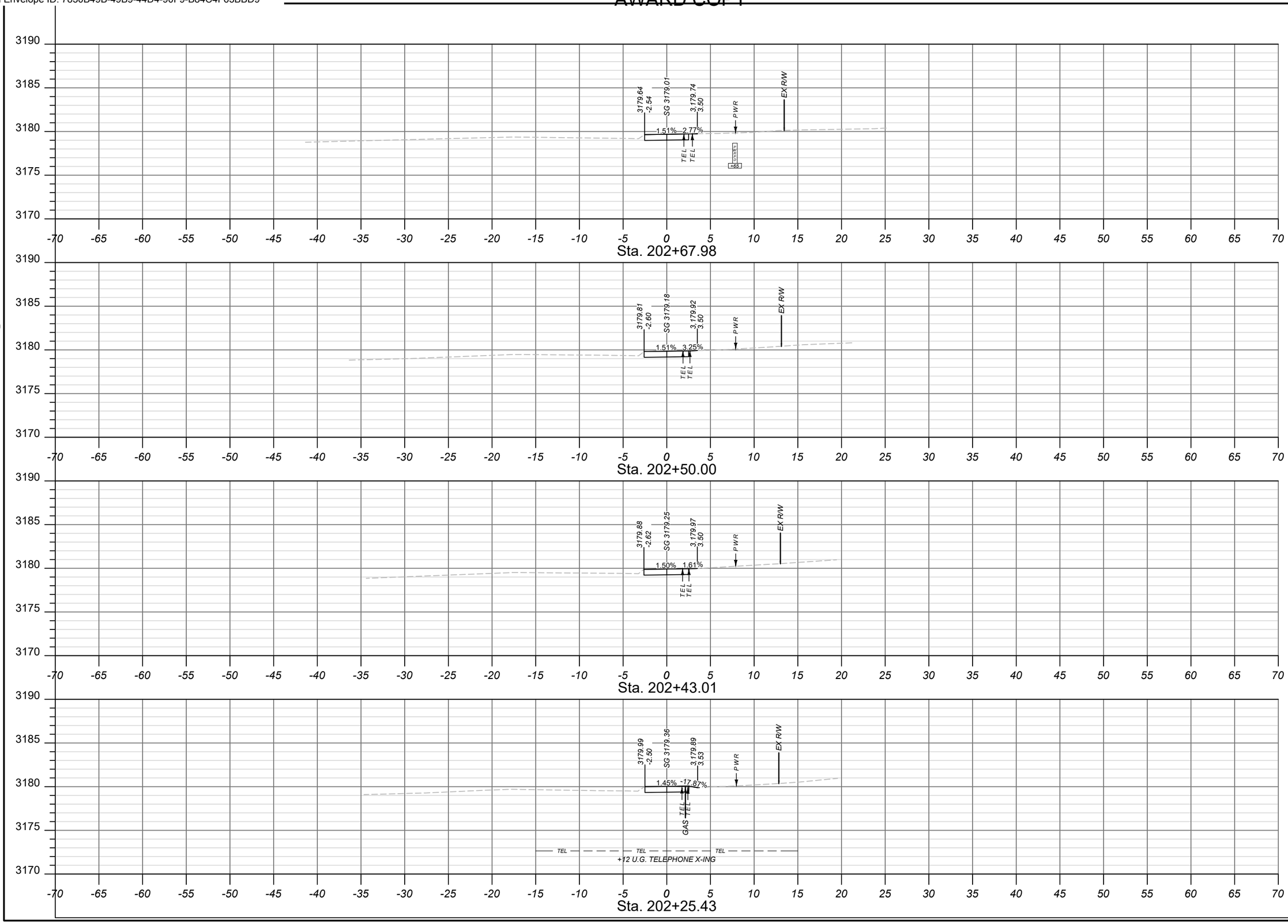
CHECKED BY	KBK	02/14/24	
REVIEWED BY	DRS	02/14/24	
DESIGNED BY	RRB	02/14/24	10101000RDLAYZ03.DWG

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Department of Transportation

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SANDERSON STEWART

SHEET NO.
30

CROSS SECTIONS
SEGMENT B

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

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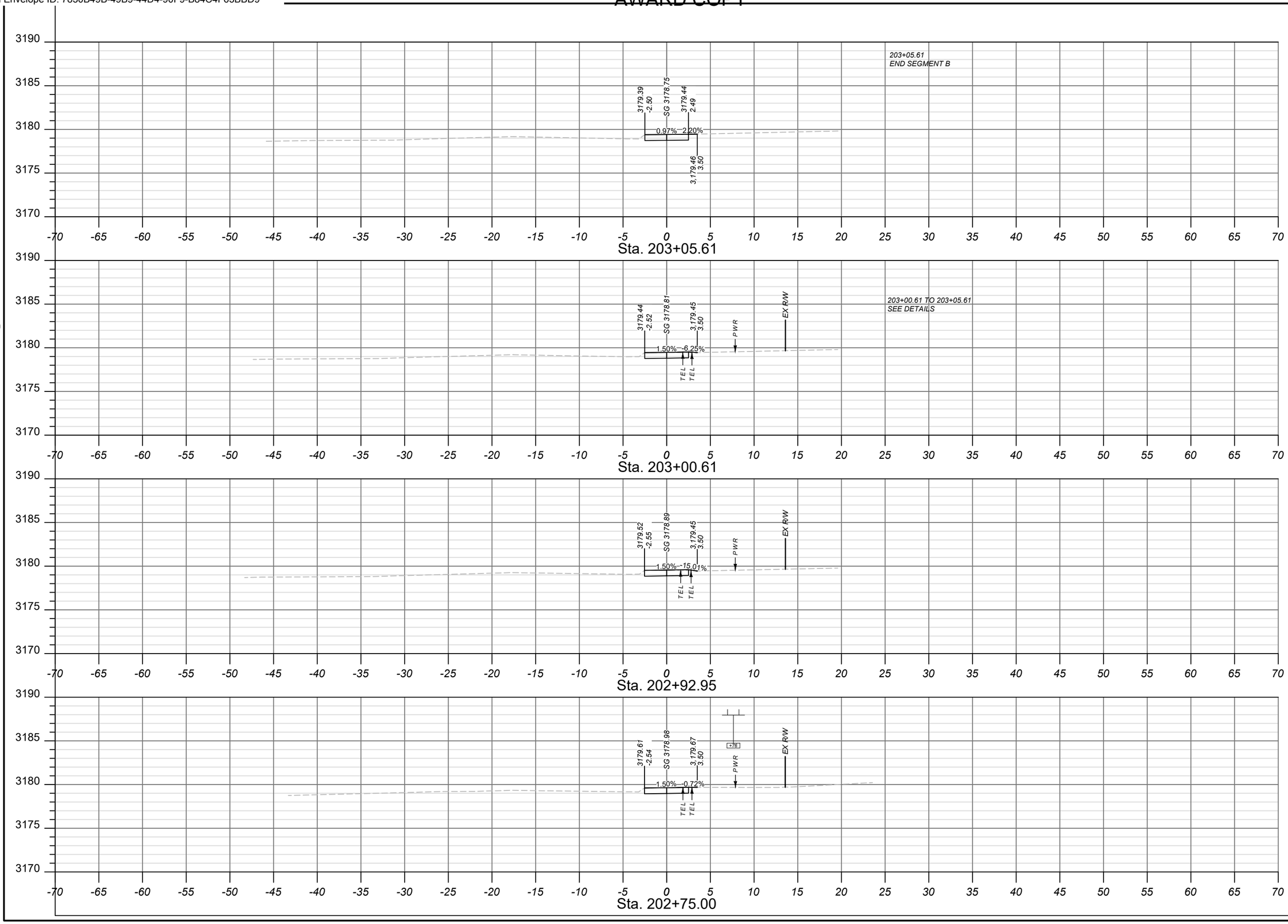
MONTANA
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SANDERSON STEWART

SHEET NO.
31

CROSS SECTIONS
SEGMENT B

PROJECT NAME SCHOOL SIDEWALKS - LOLO
COUNTY MISSOULA COUNTY
PROJECT ID TA 32(119)
UPN 10101000

CHECKED BY	KBK	02/14/24
REVIEWED BY	DRS	02/14/24
DESIGNED BY	RRB	02/14/24

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Department of Transportation

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