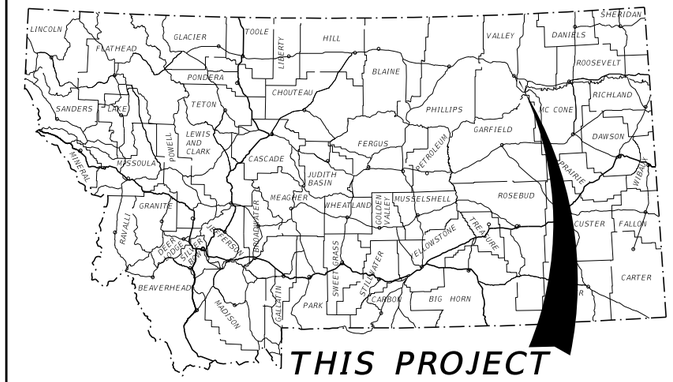
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MONTANA DEPARTMENT OF TRANSPORTATION

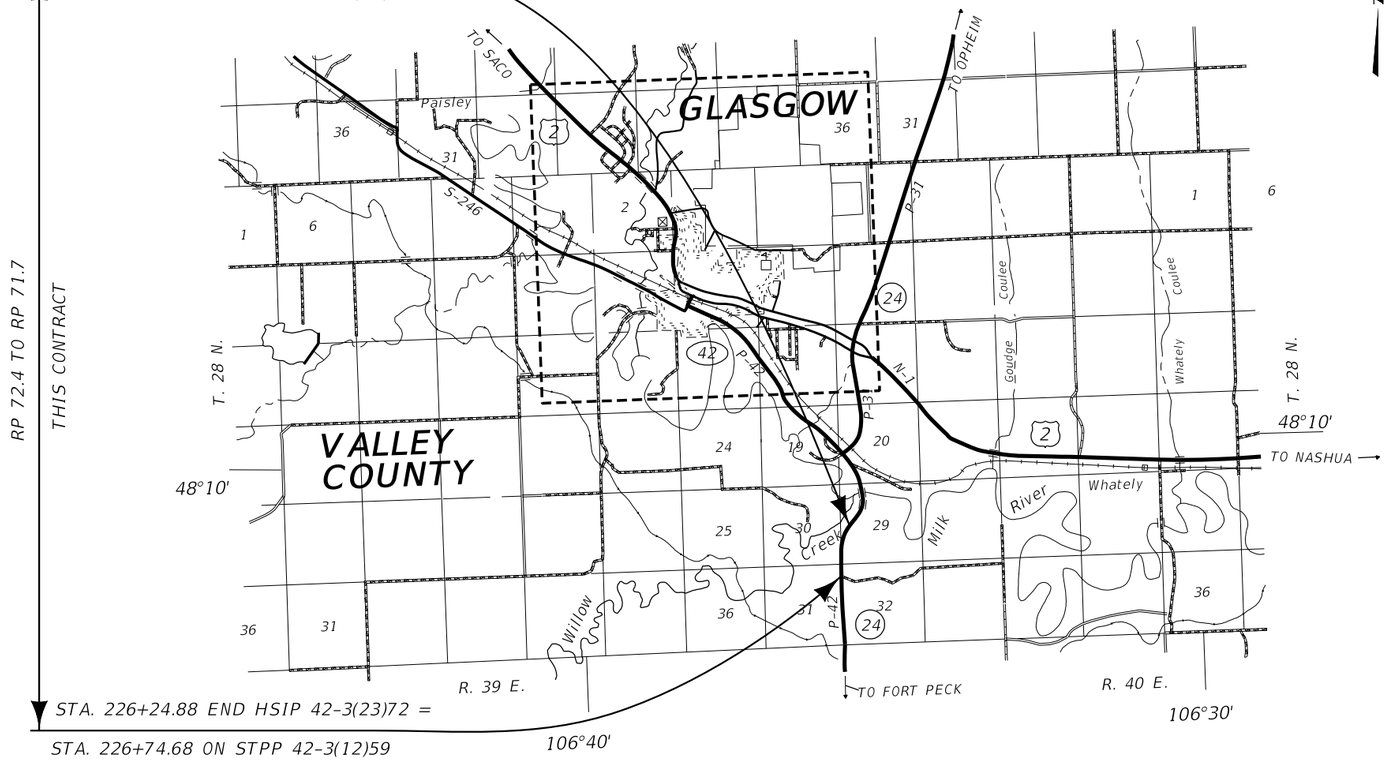
FEDERAL AID PROJECT HSIP 42-3(23)72
ROADWAY & ROADSIDE SAFETY IMPROVEMENTS
SF 169 S OF GLASGOW SFTY IMPRV
VALLEY COUNTY

PROJECT DESIGN DATA		
PRESENT	2019	A.D.T. = 1,050
LETTING	2021	A.D.T. = 1,060
DESIGN	2041	A.D.T. = 1,300
		D.H.V. = 160
		TRUCKS = 3.2%
		V. = 55 MPH
		18 KIP ESAL'S = 15
		GROWTH RATE = 1.0%

SURFACING SOURCES - CONTRACTOR FURNISHED

LENGTH 0.5 MILES

STA. 202+00.00 ON STPP 42-3(12)59 =
STA. 202+00.00 BEG. HSIP 42-3(23)72



ASSOCIATED PROJECT AGREEMENT NUMBERS	
R / W	HSIP 42-3(26)72
I.C.	HSIP 42-3(27)72
P. E.	HSIP 42-3(22)72

MONTANA DEPARTMENT OF TRANSPORTATION

MALCOLM "MACK" LONG
DIRECTOR OF TRANSPORTATION

APPROVED BY:
HIGHWAYS ENGINEER

DAMIAN KRINGS 12113PE LICENSED PROFESSIONAL ENGINEER MONTANA

DocuSigned by:
Damian Krings
1C71361CE866454...
5/4/2021
DATE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED BY: DIVISION ADMINISTRATOR

DATE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdtl001.dgn	DESIGNED BY	M CAIL	9/18/2018	ROAD PLANS
2		5/4/2021	REVIEWED BY			UPN 9193000
		11:11:03 AM CPS - U3162	CHECKED BY			

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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 - 3/4" AGG.	= 5.0% OF PL.MIX BIT.SURF.
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
TACK (ASPHALT SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
TACK (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

CLEARING AND GRUBBING

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

UTILITIES

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

PUBLIC LAND SURVEY MONUMENTS

ALL MONUMENTS TO BE REMOVED AND RELOCATED OR RESET BY STATE FORCES.

APPROACHES

CONSTRUCT APPROACHES TO A 24' FINISHED TOP ON A 34' SUBGRADE UNLESS NOTED OTHERWISE IN THE PLANS.

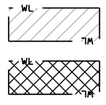
PROVIDE THE FOLLOWING SURFACING:
0.20' PLANT MIX BITUMINOUS SURF.
0.60' CRUSHED AGGREGATE COURSE

PLANT MIX SURFACE ALL PUBLIC AND PRIVATE APPROACHES TO R/W.

GRAVEL SURFACE ALL FARM FIELD APPROACHES TO R/W WITH A 12' WIDE PLANT MIX STRIP ADJACENT AND PARALLEL TO THE ROADWAY.

WETLANDS

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



DELINEATED WETLAND AREAS

PERMANENT WETLAND IMPACTED AREAS

WETLAND DELINEATION TABLE

WETLAND DESIGNATION	STATION FROM	STATION TO	WETLAND AREA (ACRES) DELINEATED AREA	WETLAND AREA (ACRES) IMPACTED AREA (PERM.)		REMARKS
SITE 1	214+43	226+49	0.21	0.11		
SITE 2	214+26	217+90	0.47	0.47		
SITE 3	210+33	213+52	0.74	0.54		
SITE 4	201+75	206+60	0.79	0.04		
SITE 5	209+39	214+39	0.61			
TOTAL			2.82	1.16		

* AREA OF EXISTING WETLAND EXTENDS BEYOND PLAN LIMITS

CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
202+00.00	POT	1,436,104.788	2,676,967.034	BEGIN PROJECT
205+32.25	PC	1,435,817.439	2,676,800.240	
214+04.18	PI	1,435,063.338	2,676,362.514	
222+29.36	PT	1,434,192.092	2,676,397.188	
226+24.88	POT	1,433,796.889	2,676,412.916	END PROJECT

LINEAR AND LEVEL DATA

LENGTH OF ROADWAY	VALLEY COUNTY	2 LANE RURAL	2,424.88 ft
TOTAL LENGTH OF HSIP 42-3(23)72	VALLEY COUNTY	2 LANE RURAL	2,424.88 ft

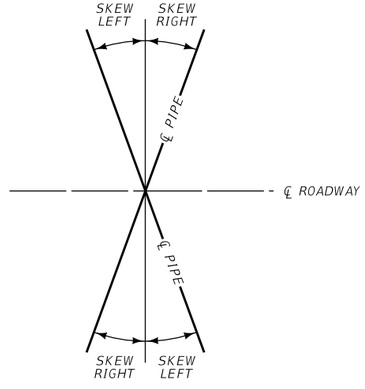
BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE

NAVD 88 GNSS DERIVED ELEVATIONS BASED ON DISTRICT LEVELS AND HOLDING BMS K354, Q256 & Z353

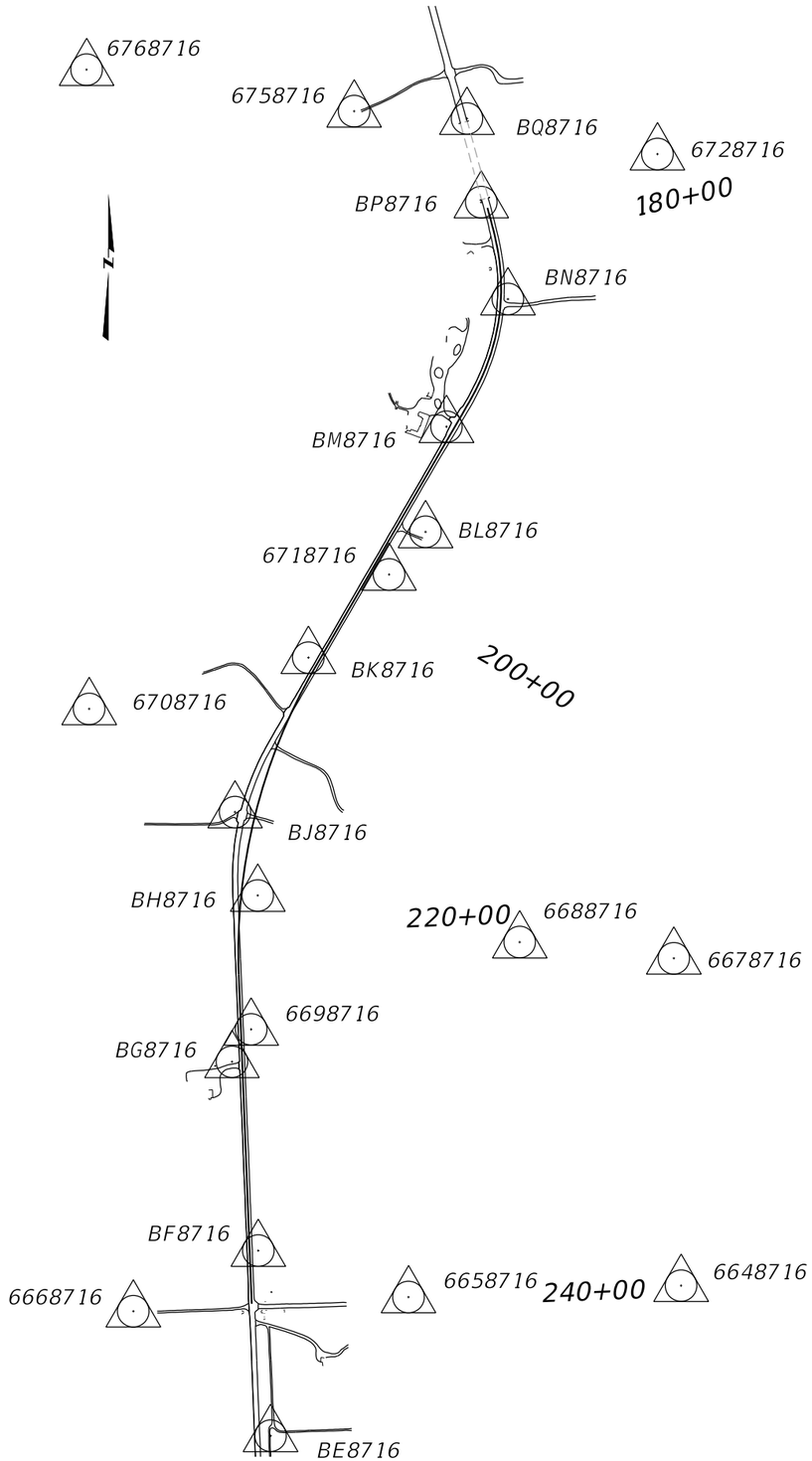
SKEW DIAGRAM



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CONTROL DIAGRAM

SCALE: N/A



NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2011. NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET.

DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE % CSF = GROUND DISTANCE). THE CSF FOR THIS PROJECT IS 0.999049008.

CONTROL ABSTRACT

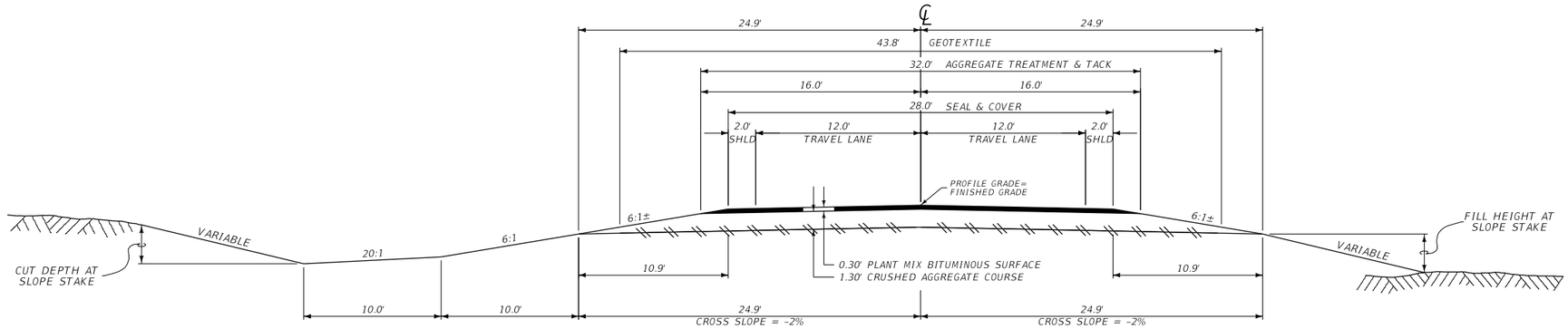
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
6648716	1,432,539.027	2,678,747.938	2,081.20	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6648716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 71.4 (NO DMI; TRIP ODOMETER USED) AND TURN EAST ONTO LENZ ROAD, PROCEED EAST 0.4 MI. TO A POINT ON THE LEFT (NORTH). THE MONUMENT LIES 33.6' NORTH OF LENZ ROAD C/L, 4.4' SOUTH OF EAST-WEST FENCE. SET WITNESS POST 4.4' NORTH OF CAP
6658716	1,432,478.222	2,677,299.446	2,084.14	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6658716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 71.4 (NO DMI; TRIP ODOMETER USED) AND TURN EAST ONTO LENZ ROAD, PROCEED EAST FOR 0.2 MI. TO A POINT ON THE LEFT (NORTH), AT SOUTHERN EDGE OF CULTIVATED FIELD. THE MONUMENT LIES 27' NORTH OF LENZ ROAD C/L, 4.5' SOUTH OF EDGE OF CULTIVATED FIELD. SET WITNESS POST 3.6' SOUTH OF CAP.
6668716	1,432,402.705	2,675,837.191	2,088.14	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6668716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 71.4 (NO DMI; TRIP ODOMETER USED) AND TURN WEST ONTO 2-TRACK DIRECTLY ACROSS FROM (WEST OF) LENZ ROAD, PROCEED WEST FOR 580' TO A POINT ON THE RIGHT (NORTH). THE MONUMENT LIES 8.5' NORTH OF 2-TRACK C/L, 9.2' SOUTH OF (NORTH) SLOPE BOTTOM, 740' EAST OF PIVOT. SET WITNESS POST 3' NORTH OF CAP.
6678716	1,434,277.955	2,678,709.376	2,082.26	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6678716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 72.05 (NO DMI; TRIP ODOMETER USED) AND TURN EAST ONTO GRAVEL LANE AND PROCEED PAST "BERGERS" HOUSE FOR A TOTAL OF 0.45 MI. TO A POINT ON THE LEFT (NORTH) OF 2-TRACK, JUST SOUTHWEST OF A GROUP OF TALL BUSHES. THE MONUMENT LIES 25.7' NORTH OF 2-TRACK C/L, 17' SOUTHEAST OF STONE PILE, 27' SOUTH OF AN ASH TREE. SET WITNESS POST 3.2' NORTH OF CAP
6688716	1,434,364.233	2,677,890.356	2,080.81	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6688716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 72.05 (NO DMI; TRIP ODOMETER USED) AND TURN EAST ONTO GRAVEL LANE AND PROCEED PAST "BERGERS" HOUSE FOR A TOTAL OF 0.3 MI. TO A POINT ON THE LEFT (NORTH) OF 2-TRACK, AT SOUTH EDGE OF LOW-LAYING CULTIVATED FIELD. THE MONUMENT LIES 23' NORTH OF 2-TRACK C/L, 21' WEST OF TINY TREE, 16.5' SOUTH OF BOTTOM OF SLOPE. SET WITNESS POST 2.6' NORTH OF CAP
6698716	1,433,900.621	2,676,463.483	2,083.37	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6698716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 71.760, EAST SIDE OF HIGHWAY. THE MONUMENT LIES 54.3' EAST OF MT-24 PTW, 16.6' WEST OF BOTTOM OF SLOPE. SET WITNESS POST 2.9' EAST OF CAP
6708716	1,435,603.265	2,675,602.407	2,082.87	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6708716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 72.07 (NO DMI; TRIP ODOMETER USED) AND TURN NORTHWEST INTO FIELD ACCESS. PROCEED THROUGH GATE NORTHWEST AND THEN WEST DOWN 2-TRACK FOR A TOTAL OF 0.2 MI. TO A POINT ON THE RIGHT (NORTH) OF 2-TRACK, JUST SOUTH OF TREE AND SHRUB LINE. THE MONUMENT LIES 6.5' NORTH OF 2-TRACK C/L, 40' WEST OF HAY/CULTIVATED FIELD LINE, 26.4' EAST OF FENCE POST. SET WITNESS POST 3' NORTH OF CAP.
6718716	1,436,317.309	2,677,196.239	2,083.61	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6718716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 72.260, SOUTHEAST SIDE OF HIGHWAY. THE MONUMENT LIES 91.5' SOUTHEAST OF MT-24 PTW, 56.7' NORTHWEST OF R/W FENCE. SET WITNESS POST 2.9' SOUTHEAST OF CAP.
6728716	1,438,551.212	2,678,622.282	2,078.36	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6728716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 72.??? AND TURN EAST ONTO GRAVEL LANE (#7274) AND PROCEED EAST-SOUTHEAST FOR 0.2 MI. (NO DMI; TRIP ODOMETER USED) DOWN FAINT 2-TRACK TO POINT ON RIGHT (SOUTH) OF FAINT 2-TRACK. VERY WEEDY AREA; LOOK FOR FLAGGING ALONG 2-TRACK. THE MONUMENT LIES 23' SOUTH OF 2-TRACK C/L, 68' SOUTHEAST OF COTTONWOOD TREE, 57' SOUTHWEST OF ELM TREE. SET WITNESS POST 3.2' SOUTH OF CAP
6758716	1,438,778.986	2,677,010.549	2,083.06	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6758716 2016" AND SET PHOTO TARGET. THE POINT IS LOCATED AT MT-24 MM 72.??? AND TURN WEST ONTO GRAVEL LANE (#7271 AND #7273). IF GATE LOCKED, WALK WEST 480' DOWN 2-TRACK TO A POINT ON NORTH SIDE OF 2-TRACK, BETWEEN TWO LARGE SHRUBS. THE MONUMENT LIES 14' NORTH OF 2-TRACK C/L. SET WITNESS POST 2.7' NORTH OF CAP.
6768716	1,438,999.586	2,675,588.897	2,082.71	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "6768716 2016" AND SET PHOTO TARGET. FROM MT 42 HEADING WEST INTO TOWN OF GLASGOW, TURN SOUTHWEST ONTO 3RD STREET S, THEN RIGHT (WEST) ONTO FRANCIS STREET, WHICH VEERS NORTHWEST AND BECOMES 6TH AVENUE S, WHICH VEERS WEST AND EVENTUALLY SOUTH AND BECOMES AITKEN ROAD. TAKE AITKEN ROAD WEST OUT OF TOWN OF GLASGOW, SOUTHWEST ACROSS BRIDGE OVER MILK RIVER, CONTINUE SOUTH FOR 2.0 MI. TO BRITZMAN ROAD (SOUTHEAST). TAKE BRITZMAN ROAD EAST FOR 2.8 MILES (NO DMI; TRIP ODOMETER USED) TO ENTRANCE TO HOUSE AT EAST END OF ROAD. CONTINUE NORTHEAST PAST HOUSE, ACROSS CULTIVATED FIELD ROUGHLY 900' TO POINT JUST WEST OF TREE LINE AND JUST NORTH OF OVERHEAD UTILITY LINES. (BEST ACCESSED WITH UTV/SIDE-BY-SIDE VEHICLE?). THE MONUMENT LIES 76' NORTH OF UTILITY POLE, 33' SOUTHEAST OF EDGE OF CULTIVATED FIELD, 4.6' NORTHWEST OF TOP OF SLOPE/CUT. SET WITNESS POST 3' SOUTHEAST OF CAP.
BE8716	1,431,741.119	2,676,566.544	2,086.10	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BE8716 2016" LOCATED AT MP 71.341, 72 FEET EAST OF PTW CENTERLINE, CAP IS SET 1 FOOT WEST OF WITNESS POST. LATH MARKED BE.
BF8716	1,432,725.161	2,676,501.283	2,087.23	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BF8716 2016" LOCATED AT MP 71.528, 47 FEET EAST OF PTW CENTERLINE, CAP IS SET 1 FOOT WEST OF WITNESS POST. LATH MARKED BF.
BG8716	1,433,728.406	2,676,361.514	2,085.69	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BG8716 2016" LOCATED AT MP 71.717 , 55 FEET WEST OF PTW CENTERLINE, CAP IS SET 1 FOOT EAST OF WITNESS POST. LATH MARKED BG.
BH8716	1,434,611.859	2,676,498.251	2,085.24	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BH8716 2016" LOCATED AT MP 71.881, 118 FEET EAST OF PTW CENTERLINE, CAP IS SET 1 FOOT WEST OF WITNESS POST. LATH MARKED BH.
BJ8716	1,435,055.161	2,676,377.627	2,089.55	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BJ8716 2016" LOCATED AT MP 71.964, 43 FEET WEST OF PTW CENTERLINE, CAP IS SET 1 FOOT EAST OF WITNESS POST. LATH MARKED BJ.
BK8716	1,435,875.620	2,676,767.484	2,083.56	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BK8716 2016" LOCATED AT MP 72.142, 57 FEET NORTHWEST OF PTW CENTERLINE, CAP IS SET 1 FOOT SOUTHEAST OF WITNESS POST. LATH MARKED BK
BL8716	1,436,543.919	2,677,389.967	2,084.42	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BL8716 2016" LOCATED AT MP 72.308, 44 FEET SOUTHEAST OF PTW CENTERLINE, CAP IS SET 1 FOOT NORTHWEST OF WITNESS POST. LATH MARKED BL.
BM8716	1,437,102.770	2,677,501.168	2,086.58	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BM8716 2016" LOCATED AT MP 72.409, 40 FEET NORTHWEST OF PTW CENTERLINE, CAP IS SET 1 FOOT SOUTHEAST OF WITNESS POST. LATH MARKED BM
BN8716	1,437,780.936	2,677,827.907	2,093.78	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BN8716 2016" LOCATED AT MP 72.551, 38 FEET NORTHEAST OF PTW CENTERLINE, CAP IS SET 1 FOOT SOUTHWEST OF WITNESS POST. LATH MARKED BN.
BP8716	1,438,295.677	2,677,686.016	2,093.79	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BP8716 2016" LOCATED AT MP 72.651, 18 FEET SOUTHWEST OF PTW CENTERLINE, 5 FEET FROM GUARDRAIL, CAP IS SET 1 FOOT NORTHEAST OF WITNESS POST. LATH MARKED BP.
BQ8716	1,438,740.028	2,677,610.252	2,094.20	SET 2" A.C. ON 5/8"x30" REBAR STAMPED "BQ8716 2016" LOCATED AT MP 72.734, 16 FEET NORTH OF PTW CENTERLINE, 4 FEET FROM GUARDRAIL, CAP IS SET 1 FOOT SOUTH OF WITNESS POST. LATH MARKED BQ.

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TYPICAL SECTION NO. 1

MAINLINE

STA. 202+00.00 TO STA. 202+50.00 TRANS. TYP.NO.1 TO TYP.NO.2



QUANTITIES

UNIT	AGGREGATE			UNIT	BIT.MAT'L			GEOTEXTILE
	COVER	PLANT MIX	CR. AGG. COURSE		SEAL	EMULSIFIED ASPH. TACK*	AGG. TREAT.	
AREA square feet		9.00	53.17	square yards PER STATION	311	712	356	487
cubic yards PER STATION		33.3	196.9	tons PER STATION	0.56			
tons PER STATION		64.2		gallons PER STATION		36		
square yards PER STATION	311							

*BASED ON 2 APPLICATIONS

* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

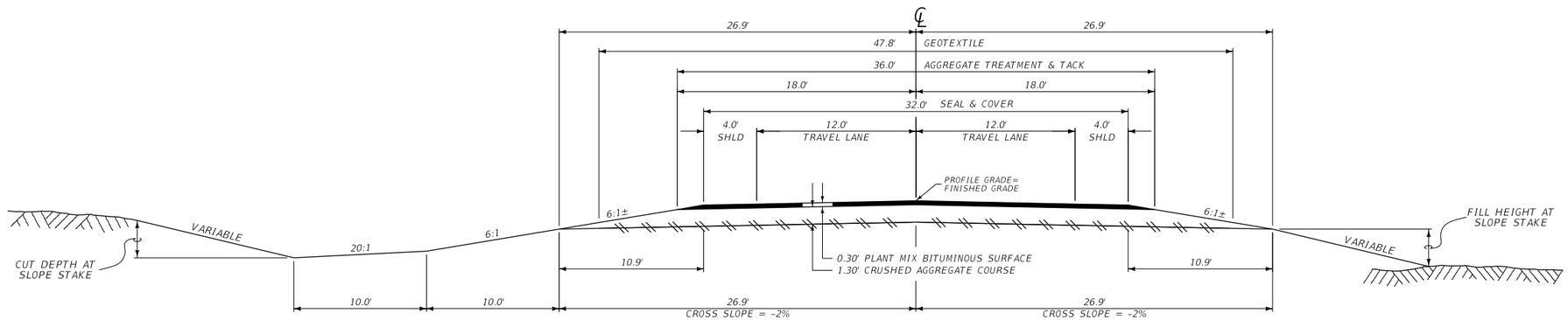
* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

* SEE CROSS SECTIONS FOR DEVIATIONS

TYPICAL SECTION NO. 2

MAINLINE

STA. 202+50.00 TO STA. 203+89.25
STA. 203+89.25 TO STA. 205+71.25 TRANS. TYP.NO.2 TO TYP.NO.3
STA. 223+72.36 TO STA. 225+74.88
STA. 225+74.88 TO STA. 226+24.88 TRANS. TYP.NO.2 TO TYP.NO.1



QUANTITIES

UNIT	AGGREGATE			UNIT	BIT.MAT'L			GEOTEXTILE
	COVER	PLANT MIX	CR. AGG. COURSE		SEAL	EMULSIFIED ASPH. TACK*	AGG. TREAT.	
AREA square feet		10.20	58.37	square yards PER STATION	356	800	400	531
cubic yards PER STATION		37.8	216.2	tons PER STATION	0.64			
tons PER STATION		72.9		gallons PER STATION		49		
square yards PER STATION	356							

*BASED ON 2 APPLICATIONS

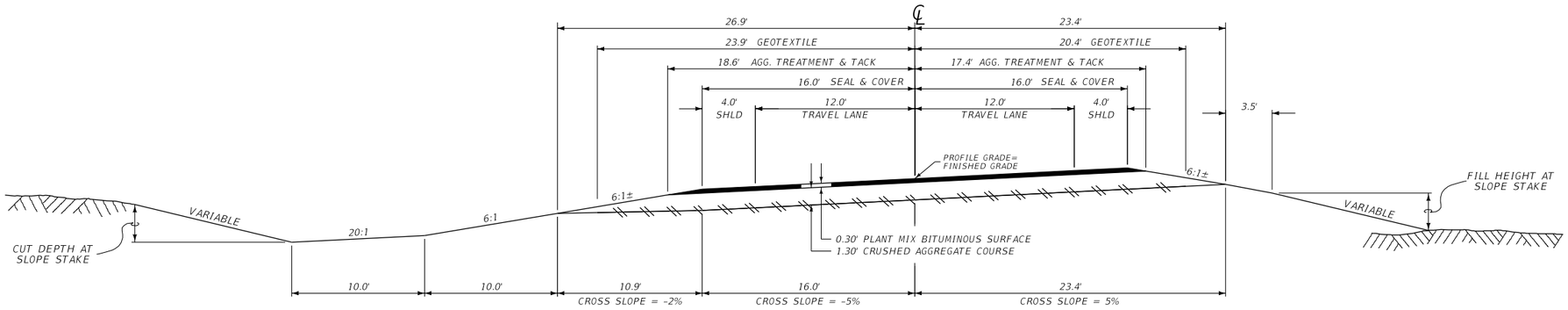
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TYPICAL SECTION NO. 3

MAINLINE

STA. 205+71.25 TO STA. 221+90.36 (5% LT.)
STA. 221+90.36 TO STA. 223+72.36 TRANS. TYP.NO.3 TO TYP.NO.2



SEE TYPICAL SECTION NO. 2 FOR QUANTITIES

* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

* SEE CROSS SECTIONS FOR DEVIATIONS

3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdtyp001.dgn	DESIGNED BY	L ZEIGLER	9/18/2018	ROAD PLANS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
		5/4/2021	REVIEWED BY			VALLEY COUNTY	UPN 9193000	5
		11:11:37 AM CPS - U3162	CHECKED BY					

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SUMMARY

RUMBLE STRIPS

STATION		miles		gals	REMARKS
		RUMBLE STRIPS		EMULSIFIED ASPHALT FOG SEAL #	
FROM	TO	CONTIN-UOUS	INTER-MITTENT		
202+00.00	226+24.88		0.5	59	MODIFIED 6" RUMBLE STRIP – LT
			0.5	59	MODIFIED 6" RUMBLE STRIP – RT
SUBTOTAL			1.0	118	
TOTAL		1.0		~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS.

SURFACING

STATION		linear feet				FOR	AGGREGATE				BITUMINOUS MAT.			square yards	REMARKS
							square yards	tons		cubic yards	tons	gallons	square yards		
FROM	TO	GROSS	NET	+	-		COVER TYPE 1	COMM. PLANT MIX BIT. SURF. PG 64-28	COMM. PLANT MIX BIT. SURF. MISC	CRUSHED AGG. COURSE	SEAL CRS-2P	EMULSIFIED ASPHALT - TACK	AGG. TREAT.	GEOTEXTILE SEPARATION HIGH SURV	
202+00.00	202+50.00	50.00	50.00				167	34		103	0.3	19	189	255	TRANS. TYP. NO. 1 TO TYP. NO. 2
202+50.00	203+89.25	139.25	139.25				496	102		301	0.9	56	557	739	TYP. NO. 2
203+89.25	205+71.25	182.00	182.00				648	133		393	1.2	73	728	966	TRANS. TYP. NO. 2 TO TYP. NO. 3
205+71.25	221+90.36	1,619.11	1,619.11				5,764	1,180		3,501	10.4	648	6,476	8,597	TYP. NO. 3
221+90.36	223+72.36	182.00	182.00				648	133		393	1.2	73	728	966	TRANS. TYP. NO. 3 TO TYP. NO. 2
223+72.36	225+74.88	202.52	202.52				721	148		438	1.3	81	810	1,075	TYP. NO. 2
225+74.88	226+24.88	50.00	50.00				167	34		103	0.3	19	189	255	TRANS. TYP. NO. 2 TO TYP. NO. 1
						ADDITIONAL SURFACING			87	311					
TOTAL		2,424.88	2,424.88				8,611	1,764	87	5,543	15.6	969	9,677	12,853	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION		linear feet				AGGREGATE			BITUMINOUS MATERIAL		REMARKS
						tons		cubic yards	gallons	square yards	
FROM	TO	GROSS	NET	+	-	COMM. PLANT MIX BIT. SURF. PG 64-28	COMM. PLANT MIX BIT. SURF. MISC	CRUSHED AGG. COURSE	EMULSIFIED ASPHALT - TACK	AGG. TREAT.	
208+02.00 RT							12	117			FARM/FIELD APPROACH
210+00.00 LT							51	52			PRIVATE APPROACH
213+87.00 LT							12	53			FARM/FIELD APPROACH
214+00.00 RT							12	89			FARM/FIELD APPROACH
SUBTOTAL		~	~	~	~	~	87	311	~	~	

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SUMMARY

GRADING

STATION		cubic yards		REMARKS
FROM	TO	EXC.	EMB. IN PLACE	
202+00.00	226+24.88	13,645	14,588	
		75	2,425	ADDITIONAL GRADING
TOTAL		# 13,720	17,013	

FOR INFORMATION ONLY

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	68		68
STRIPING - YELLOW PAINT	gallon	68		68
STRIPING - WHITE EPOXY	gallon		22	22
STRIPING - YELLOW EPOXY	gallon		22	22
TEMPORARY STRIPING	linear ft			4850.0
FINAL BROOM & SWEEP	course mile			0.5

BASED ON 2 APPLICATIONS.

TOPSOIL & SEEDING

STATION		cubic yards	acres				REMARKS
		TOPSOIL SALVAGING & PLACING #	SEED		FERTILIZER	CONDITION SEEDBED	
FROM	TO		NO. 1	NO.3	NO. 1		
202+00.00	226+24.88	2,025	6.6	1.7	6.6	8.3	
TOTAL		2,025	6.6	1.7	6.6	8.3	

INCLUDED IN ADDITIONAL GRADING FRAME

ADDITIONAL GRADING

STATION		cubic yards		REMARKS
		INCL. IN GRADING FRAME		
		EXC.	EMB. IN PLACE	
FROM	TO			
202+00.00	226+24.88		2,025	TOPSOIL REPLACEMENT
208+02.00 RT		10	230	FARM/FIELD APPROACH
210+00.00 LT		10	75	PRIVATE APPROACH
213+87.00 LT		5	65	FARM/FIELD APPROACH
214+00.00 RT		50	30	FARM/FIELD APPROACH
TOTAL		75	2,425	

APPROACH PIPE

STATION	BASIC BID ITEMS			PIPE OPTIONS in				END SECTIONS		linear feet	SKEW ANGLE	CULVERT IN PL. in x ft	REMARKS
	CULVERT PIPE in	linear feet		CONCRETE - CLASS 3	STEEL - 2 2/3 x 1/2 CORR. 0.064 THK.	ALUMINUM - 2 2/3 x 1/2 CORR. 0.060 THK.	CORRU-GATED POLY-ETHYLENE	LEFT	RIGHT	HEIGHT OF COVER			
		LENGTH OF PIPE	REMOVE CULVERT										
213+87	18	62	78	18	18	18	18	FETS	FETS	4.2		18"x 78"	LT.
TOTAL	~	62	78	~	~	~	~	~	~	~	~	~	

CULVERTS

STATION	BASIC BID ITEMS			PIPE OPTIONS in			END SECTIONS		linear feet	SKEW ANGLE	CULVERT IN PL. in x ft	REMARKS
	CULVERT PIPE in	linear feet		CONCRETE CLASS 3	STEEL - 2 2/3 x 1/2 CORR. 0.064 THK.	ALUMINUM - 2 2/3 x 1/2 CORR. 0.060 THK.	LEFT	RIGHT	HEIGHT OF COVER			
		LENGTH OF PIPE	REMOVE CULVERT									
210+88	51 x 31	192	99	51 x 31			FETS	FETS	5.3	51 RT	36"x 99' CMP	
TOTAL	~	192	99	~	~	~	~	~	~	~	~	

FENCING

STATION			each	linear feet		REMARKS
			FARM FENCE PANEL	FARM GATE		
FROM	TO		SINGLE	TYPE G2	TYPE G3	
	208+02		2	16		RT
	214+00		2	16		RT
TOTAL			4	32		

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HYDRAULIC DATA SUMMARY *

STATION	STREAM NAME (IF NAMED)	DRAINAGE AREA (mi.²)	SIZE / TYPE STRUCTURE (1)(1A)(4)	DESIGN FLOOD			BASE FLOOD (1%)		OVERTOPPING FLOOD (2)(3)			REMARKS (FLOOD OF RECORD, Qp(max), etc.) (5)
				MAGNITUDE (cfs)	FREQUENCY (%)	H.W. ELEV. (ft.)	MAGNITUDE (cfs)	H.W. ELEV. (ft.)	MAGNITUDE (cfs)	APPROX. FREQUENCY (%)	H.W. ELEV. (ft.)	
210+88		0.02	51x31 RCPA	44	4	2083.3	80	2084.3	47	4	2083.5	OT APP. STA. 210+22 LT

NOTES :

* H.W. ELEVATIONS SHOWN ARE BASED UPON PEAK FLOW ANALYSIS UNLESS NOTED IN REMARKS COLUMN.

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

(1A) BRIDGE LENGTH SHOWN EQUALS THE WATER SURFACE WIDTH IN THE OPENING AT THE DESIGN H.W. ELEVATION MEASURED NORMAL TO FLOW.

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

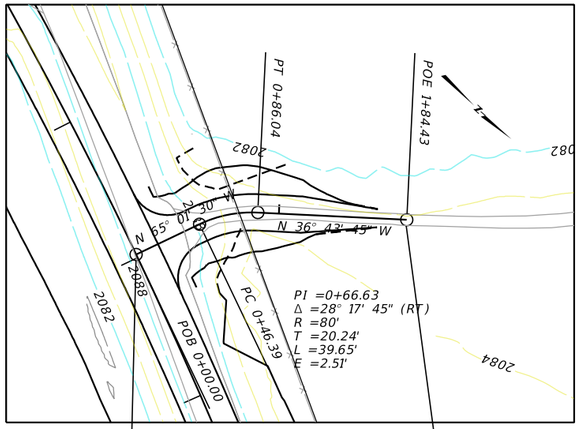
(3) FOR THOSE CROSSINGS NOTED BY Qp(max) IN THE REMARKS COLUMN OVERTOPPING DOES NOT OCCUR AND THE FLOOD MAGNITUDE LISTED CORRESPONDS TO THE FLOOD OF SECTION 650.115 (a) (1) (ii) OF FEDERAL-AID POLICY GUIDE, SUBCHAPTER G, PART 650, SUBPART A (DEC. 1991)
THE FLOOD SPECIFIED IS SUBJECT TO STATE-OF-THE-ART CAPABILITY TO ESTIMATE THE EXCEEDANCE PROBABILITY.
(PIPES 0.5%; BRIDGE .2%)

(4) HIGH WATER ELEVATIONS MAY VARY SLIGHTLY DEPENDING UPON THE PIPE OPTION SELECTED.

(5) PROCEDURE MEMORANDUM NO.10, HYDRAULICS MANUAL CHAPTER 9 APPENDIX H.

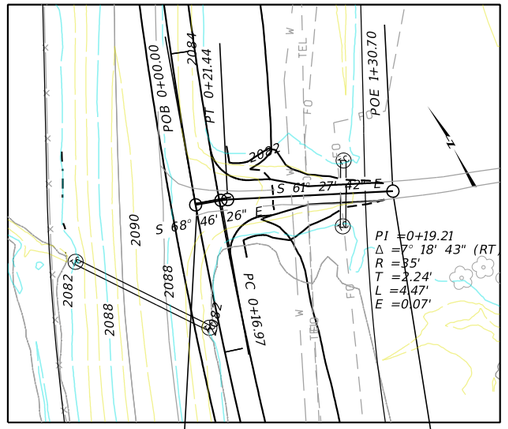
EXCEEDANCE	PROBABILITIES
25 YEAR	4 % CHANCE
50 YEAR	2 % CHANCE
100 YEAR	1 % CHANCE
200 YEAR	.5% CHANCE
500 YEAR	.2% CHANCE

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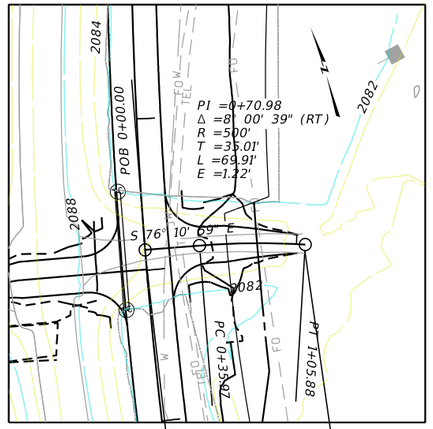
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1+84.43 END



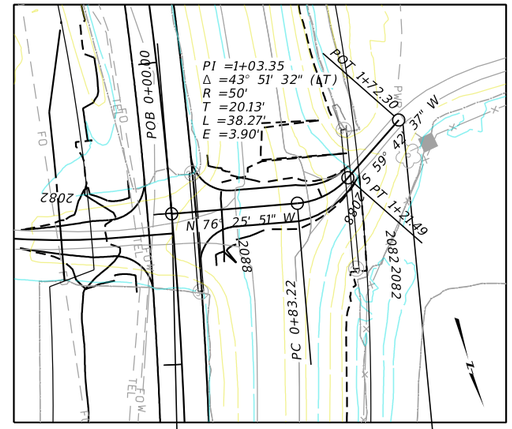
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1+30.70 END



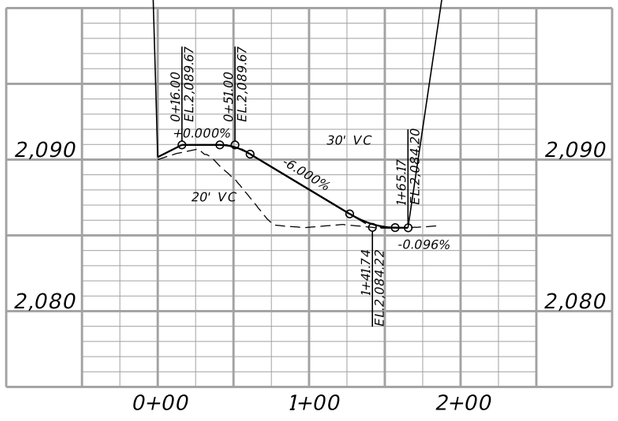
0+00.00 BEG. = 213+87 LT.

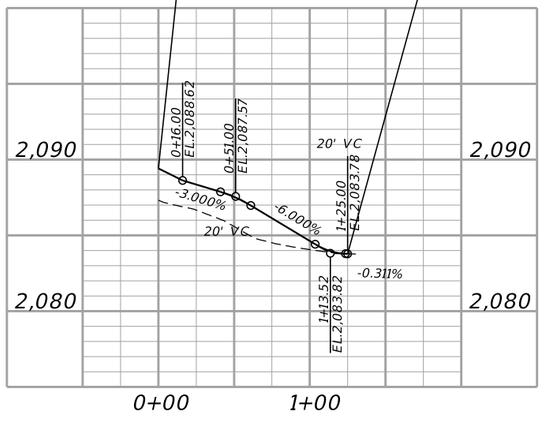
1+05.88 END

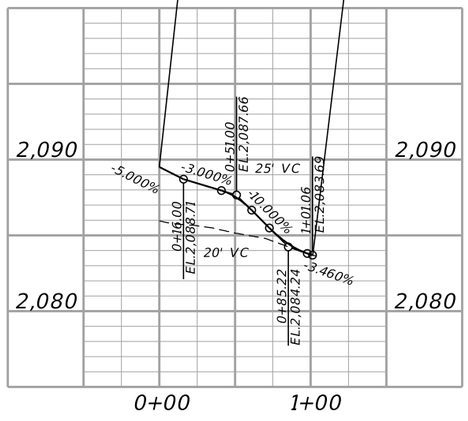


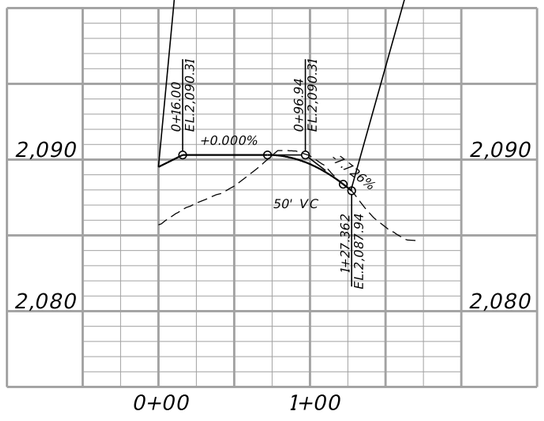
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1+72.30 END





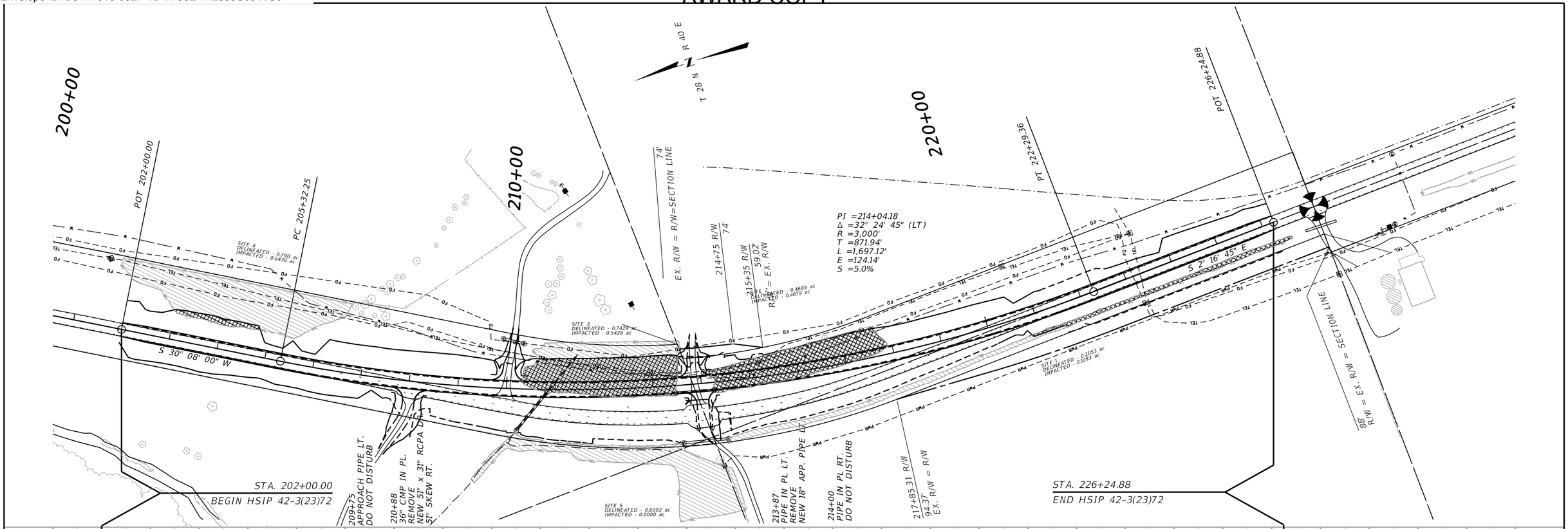




DETAIL
APPROACHES
LT. & RT.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rddet001.dgn	DESIGNED BY	L ZEIGLER		ROAD PLANS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
2		5/4/2021	REVIEWED BY			VALLEY COUNTY	UPN 9193000	9
		11:12:36 AM CPS - U3162	CHECKED BY					

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3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdplp001.dgn	DESIGNED BY	L ZEIGLER	9/18/2018	ROAD PLANS	SF 169 S OF GLASGOW SFTY IMPRV / HSIP 42-3(23)72
2		5/4/2021	REVIEWED BY			VALLEY COUNTY	UPN 9193000 / 10
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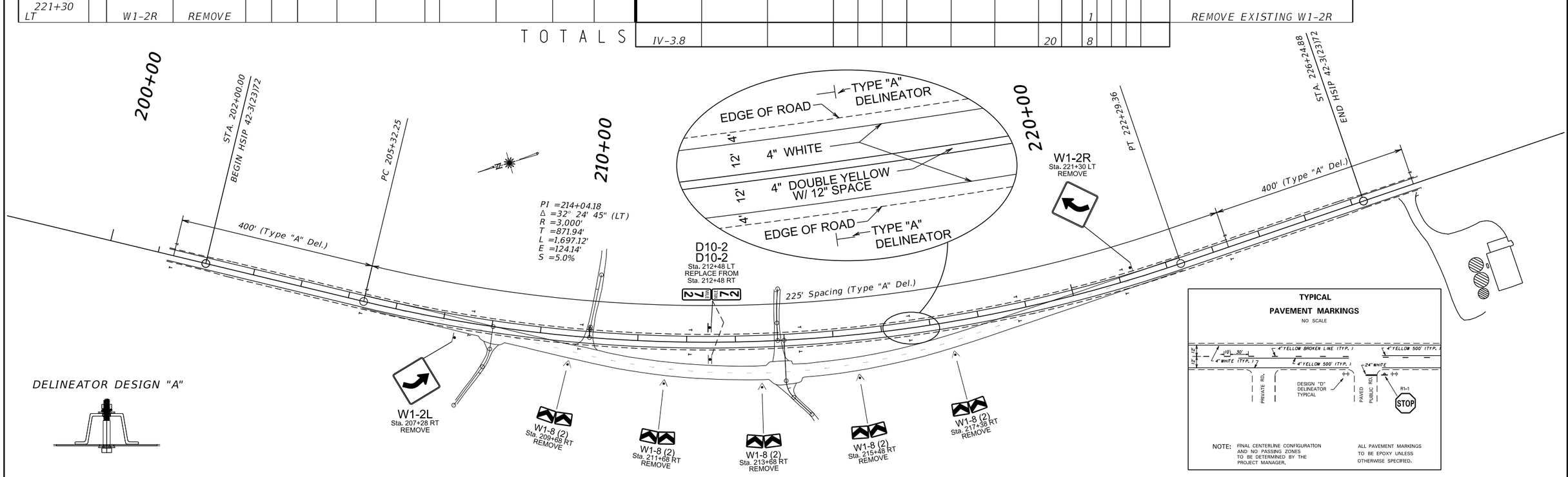
SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(IV)	3.8	SQ. FOOT
DELINEATOR-DESIGN A	22	EACH
POSTS-STEEL "U"	20	POUNDS
REMOVE SIGNS	8	EACH

SIGN LOCATION AND SPECIFICATIONS

		SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT		FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA	TIMBER POLE (LINEAR FT.): 5" TOP DIA	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	SIGNS TO BE: BREAKAWAY	GUIDE SIGNS TO BE: REMOVE	GUIDE SIGNS TO BE: RESET	REMOVE	RESET	REMARKS
207+28	RT	W1-2L	REMOVE																					1					REMOVE EXISTING W1-2L
209+68	RT	W1-8 W1-8	REMOVE																					1					REMOVE EXISTING W1-8's
211+68	RT	W1-8 W1-8	REMOVE																					1					REMOVE EXISTING W1-8's
212+48	LT	D10-2 D10-2	10X27 10X27	IV IV	IV IV	4-0		2LB STL U		10-0			4-0	3-0	IV-1.9 IV-1.9								20	1					REPLACE FROM 212+48 RT D10-2'S=MILE 72
213+68	RT	W1-8 W1-8	REMOVE																					1					REMOVE EXISTING W1-8's
215+48	RT	W1-8 W1-8	REMOVE																					1					REMOVE EXISTING W1-8's
217+38	RT	W1-8 W1-8	REMOVE																					1					REMOVE EXISTING W1-8's
221+30	LT	W1-2R	REMOVE																					1					REMOVE EXISTING W1-2R
TOTALS															IV-3.8								20	8					

DELINEATION TABLE		
⊣	DESIGN "A"	22
⊣|	DESIGN "B"	
⊣Y	DESIGN "C"	
⊣⊢	DESIGN "D"	
⊣|||	DESIGN "E"	
⊢	DESIGN "F"	
⊣<	DESIGN "G"	
⊣>	DESIGN "H"	
⊣×	DESIGN "J"	
×⊢	DESIGN "BJ"	
×<	DESIGN "GJ"	



TYPICAL PAVEMENT MARKINGS
NO SCALE

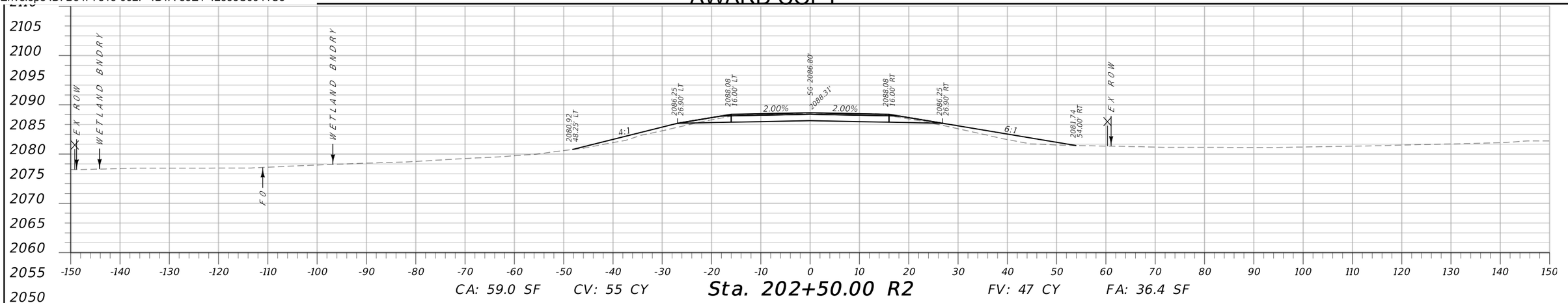
NOTE: FINAL CENTERLINE CONFIGURATION AND NO PASSING ZONES TO BE DETERMINED BY THE PROJECT MANAGER.

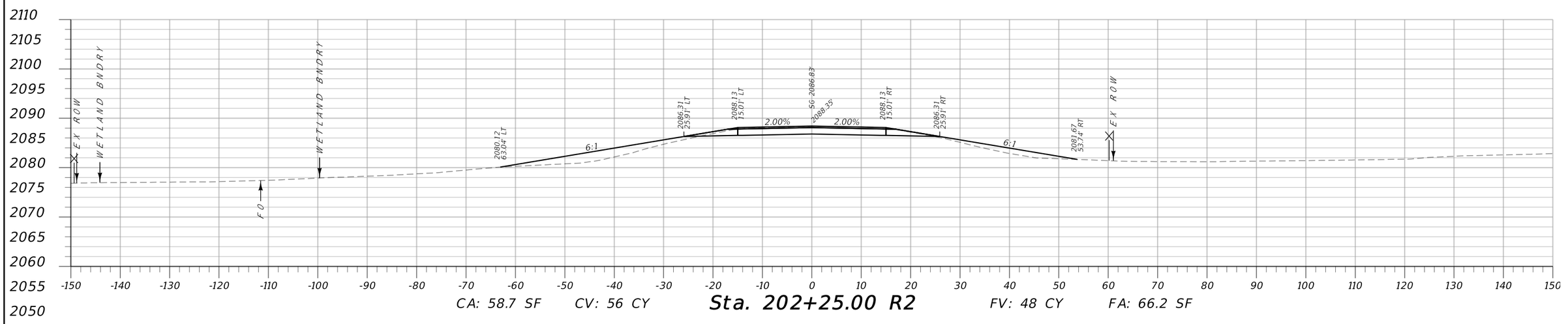
ALL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE SPECIFIED.

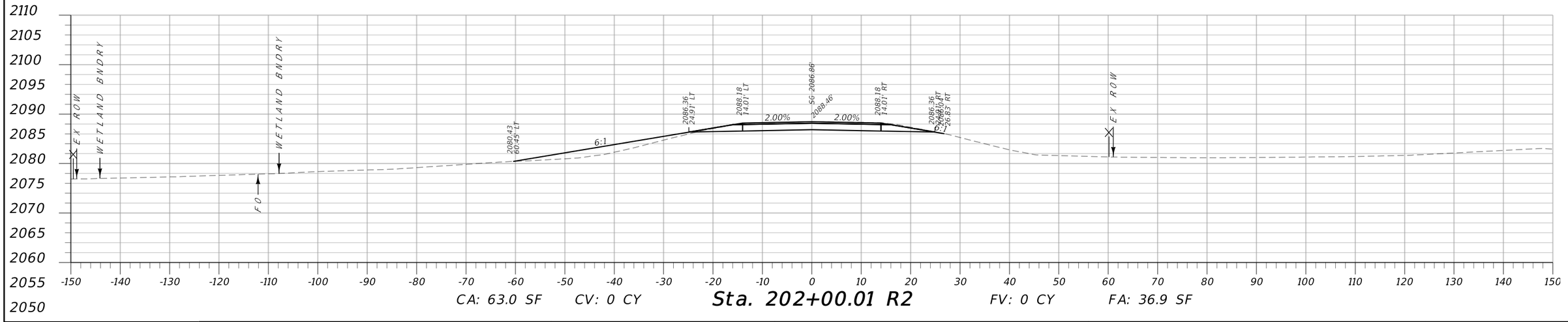
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2		5/4/2021	REVIEWED BY			VALLEY COUNTY	UPN 9193000	S1
		11:13:01 AM CPS - U316	CHECKED BY	STEVE ROGNE	9-2020			

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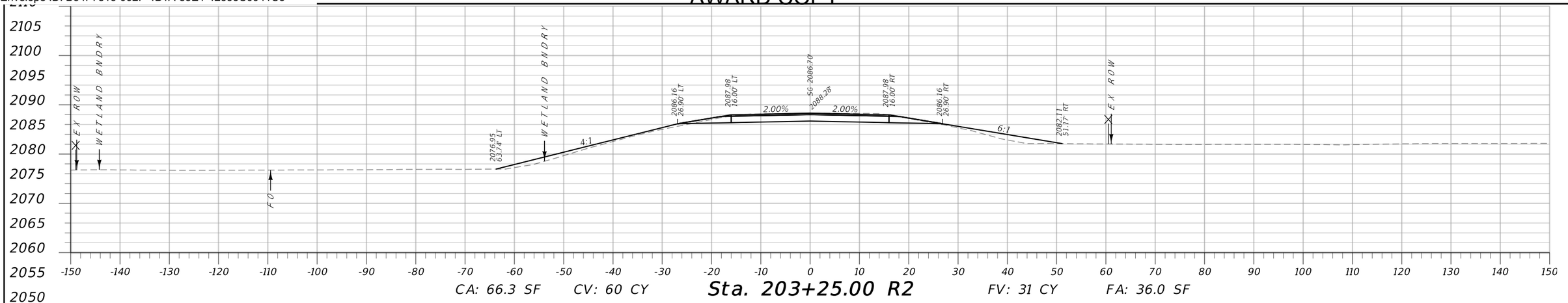




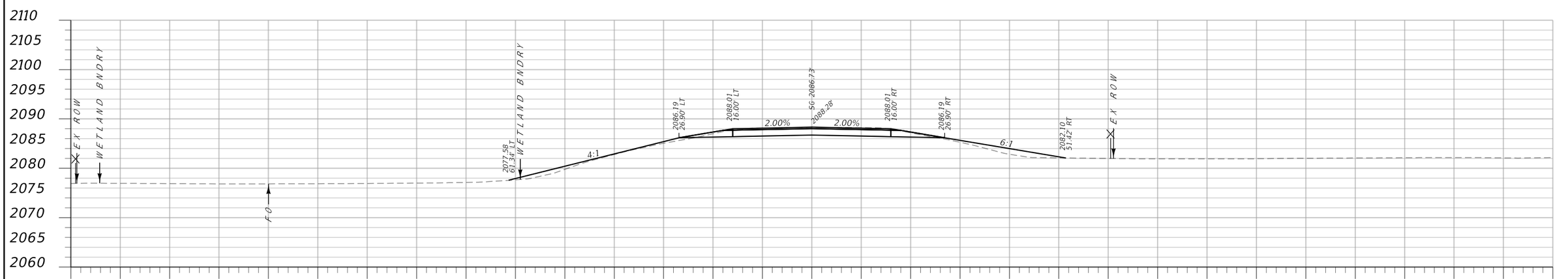
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	5/4/2021	REVIEWED BY				
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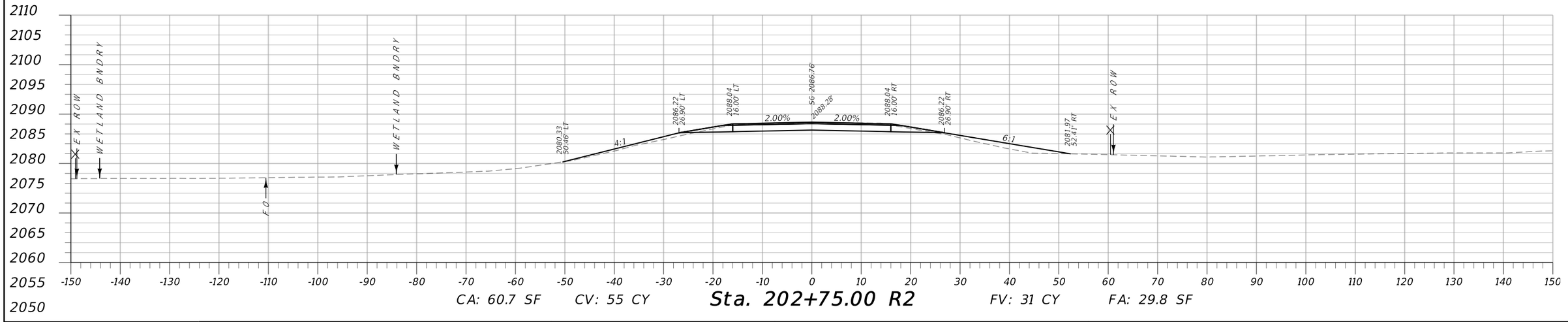
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CA: 66.3 SF CV: 60 CY **Sta. 203+25.00 R2** FV: 31 CY FA: 36.0 SF



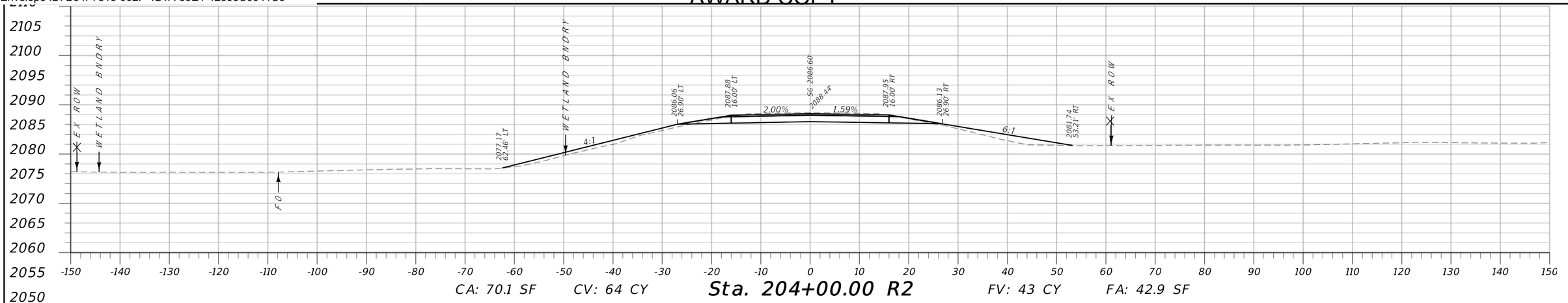
CA: 64.1 SF CV: 58 CY **Sta. 203+00.00 R2** FV: 29 CY FA: 31.8 SF



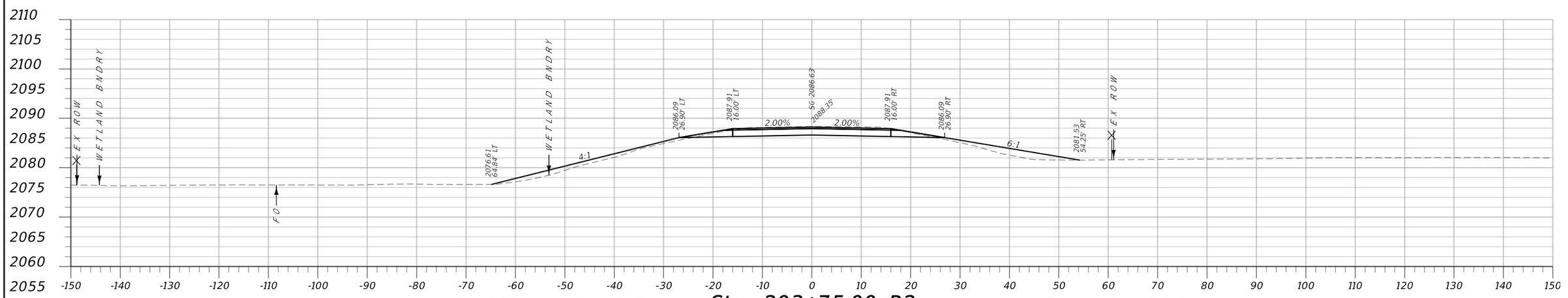
CA: 60.7 SF CV: 55 CY **Sta. 202+75.00 R2** FV: 31 CY FA: 29.8 SF

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	5/4/2021	REVIEWED BY				
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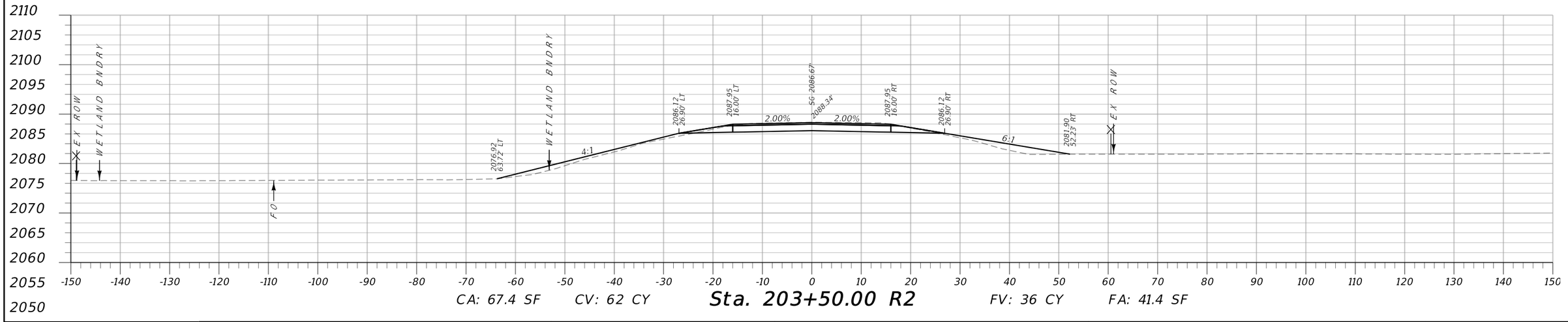
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CA: 70.1 SF CV: 64 CY **Sta. 204+00.00 R2** FV: 43 CY FA: 42.9 SF



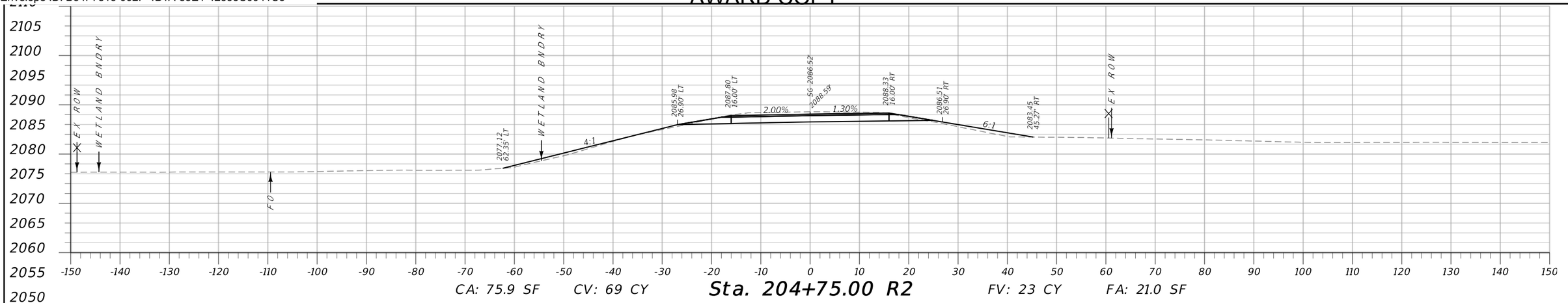
CA: 68.0 SF CV: 63 CY **Sta. 203+75.00 R2** FV: 42 CY FA: 50.0 SF



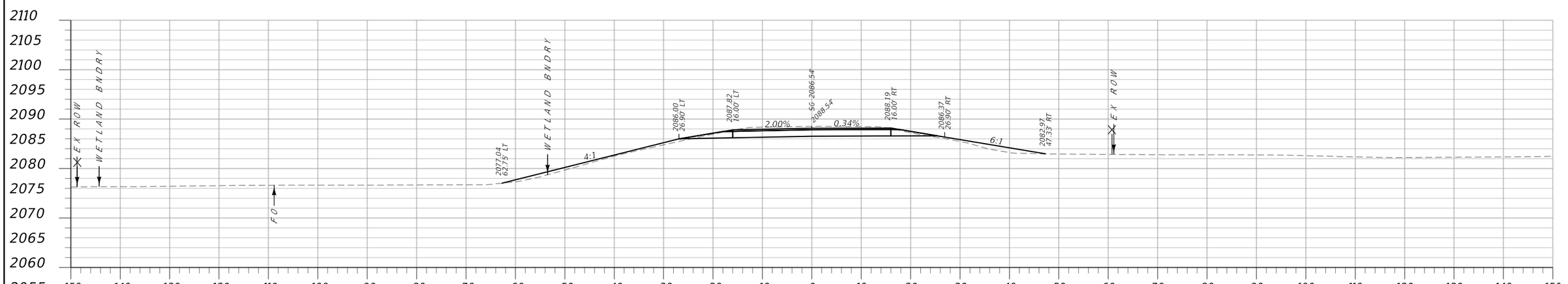
CA: 67.4 SF CV: 62 CY **Sta. 203+50.00 R2** FV: 36 CY FA: 41.4 SF

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	5/4/2021	REVIEWED BY		VALLEY COUNTY	UPN 9193000 / SHEET 3
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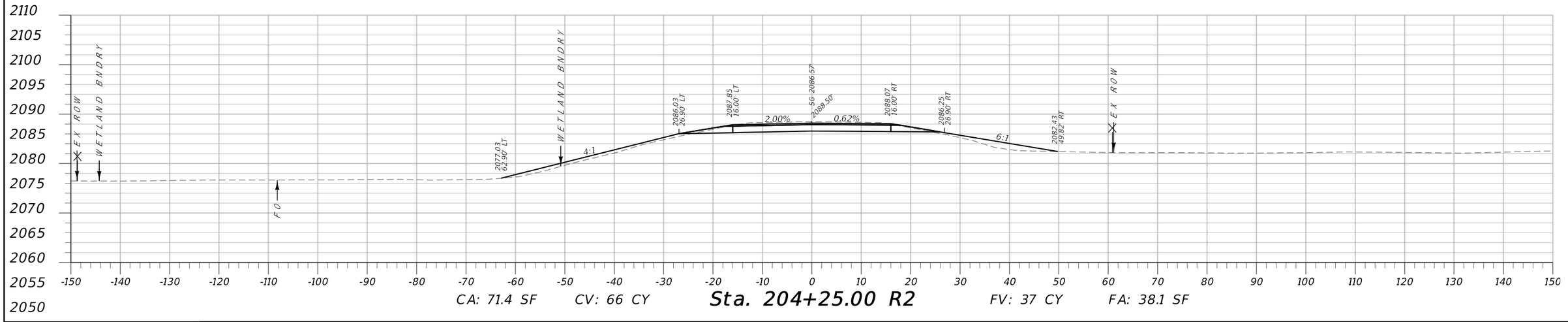
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CA: 75.9 SF CV: 69 CY **Sta. 204+75.00 R2** FV: 23 CY FA: 21.0 SF



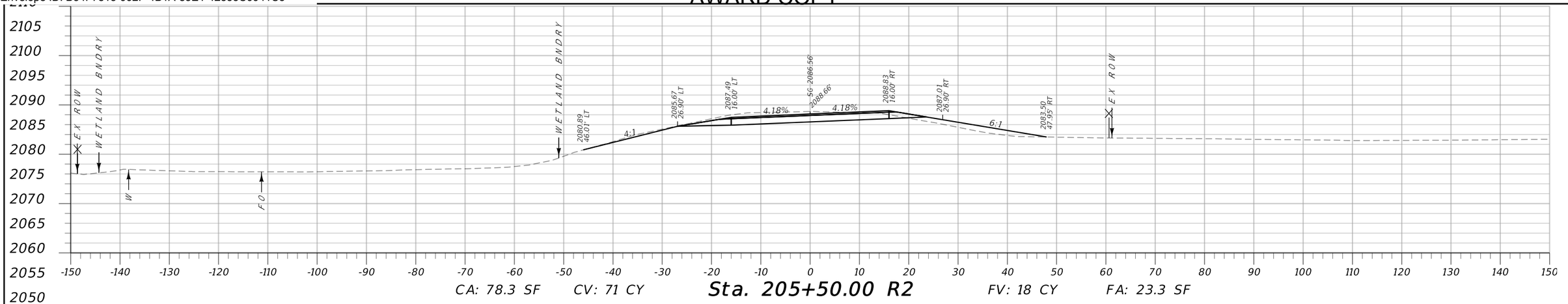
CA: 73.6 SF CV: 67 CY **Sta. 204+50.00 R2** FV: 31 CY FA: 28.3 SF



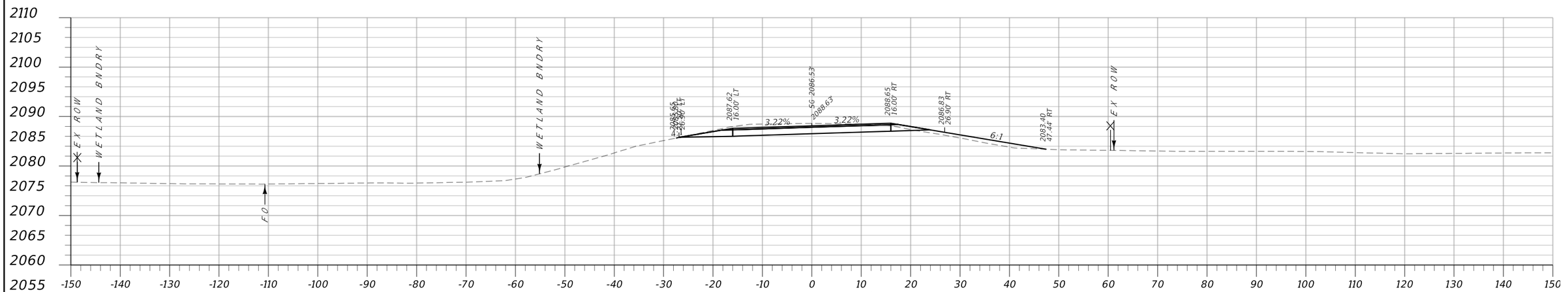
CA: 71.4 SF CV: 66 CY **Sta. 204+25.00 R2** FV: 37 CY FA: 38.1 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY		VALLEY COUNTY	UPN 9193000	SHEET 4
	11:13:30 AM CPS - U3162	CHECKED BY				

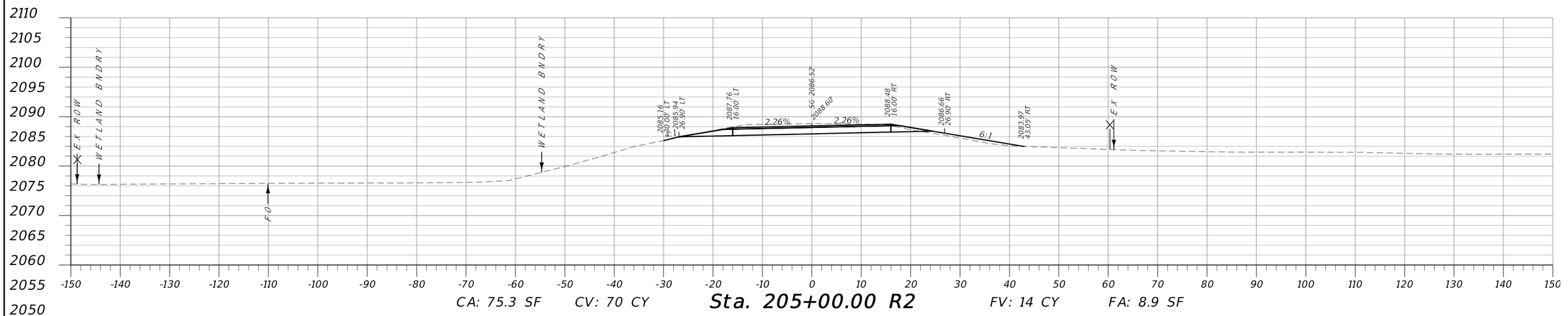
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CA: 78.3 SF CV: 71 CY **Sta. 205+50.00 R2** FV: 18 CY FA: 23.3 SF



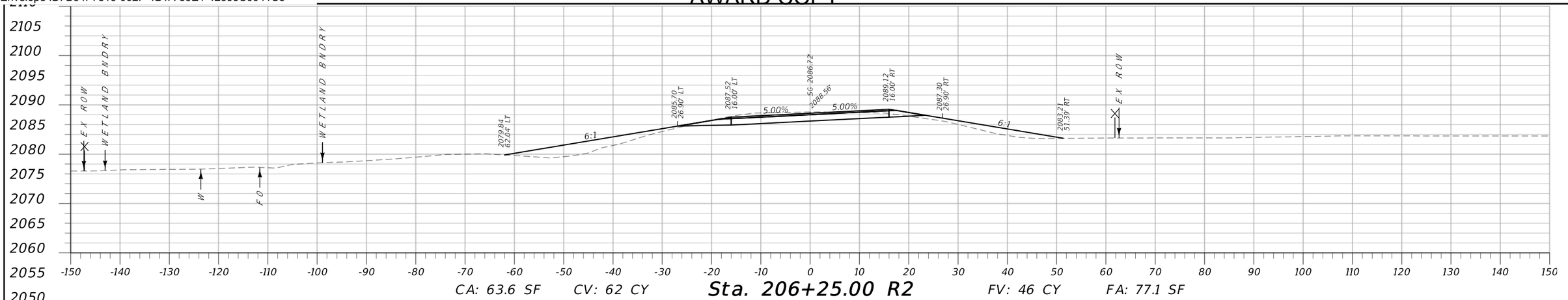
CA: 75.5 SF CV: 70 CY **Sta. 205+25.00 R2** FV: 11 CY FA: 15.6 SF



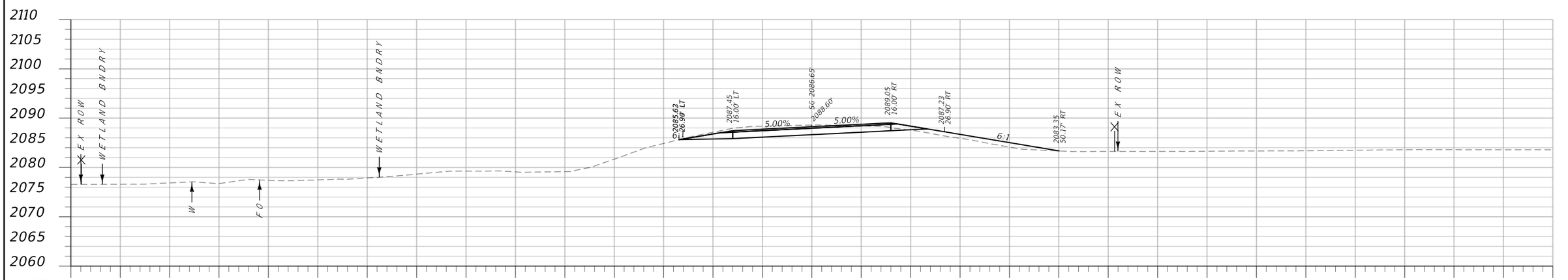
CA: 75.3 SF CV: 70 CY **Sta. 205+00.00 R2** FV: 14 CY FA: 8.9 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
	11:13:35 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 5

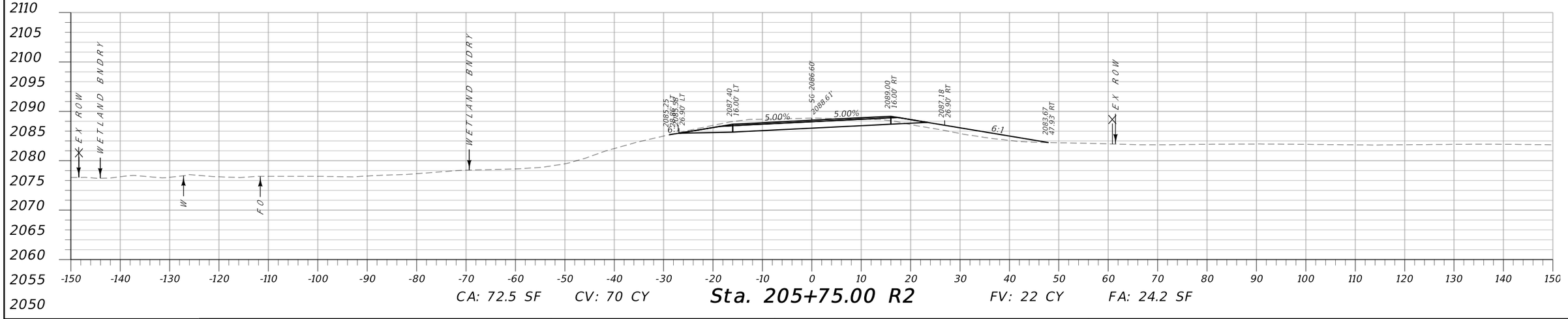
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CA: 63.6 SF CV: 62 CY **Sta. 206+25.00 R2** FV: 46 CY FA: 77.1 SF



CA: 69.6 SF CV: 66 CY **Sta. 206+00.00 R2** FV: 21 CY FA: 21.2 SF

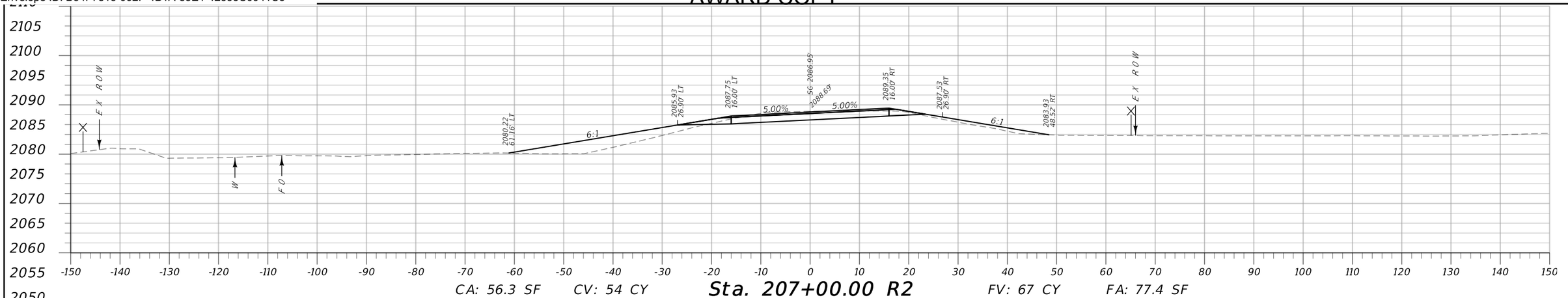


CA: 72.5 SF CV: 70 CY **Sta. 205+75.00 R2** FV: 22 CY FA: 24.2 SF

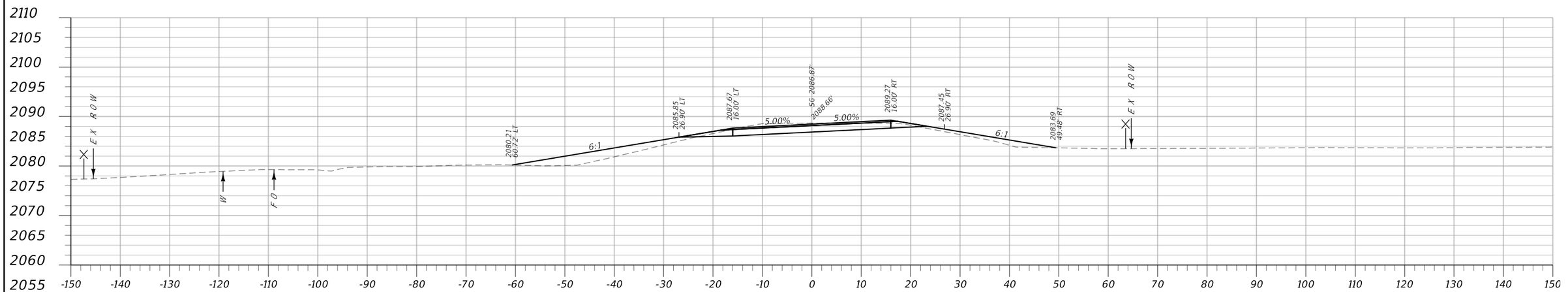
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	5/4/2021	REVIEWED BY				
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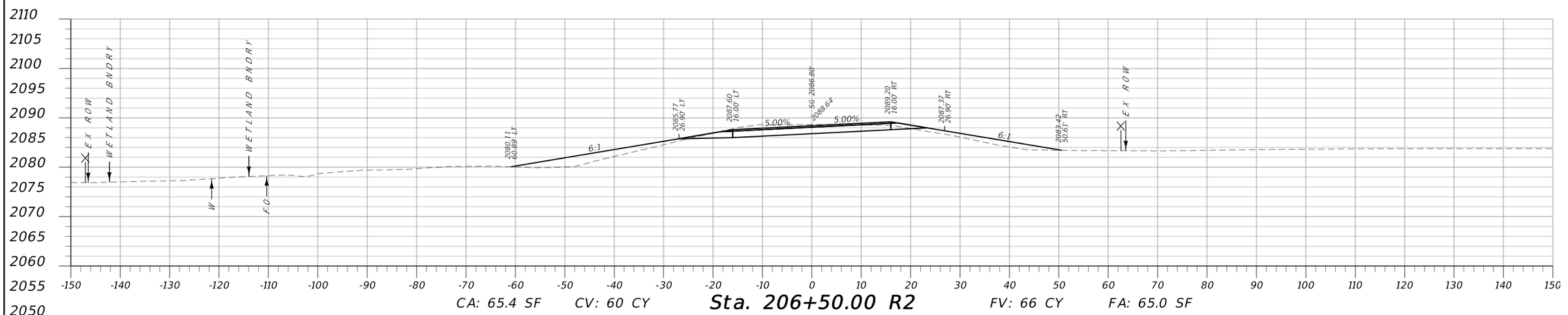
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CA: 56.3 SF CV: 54 CY **Sta. 207+00.00 R2** FV: 67 CY FA: 77.4 SF



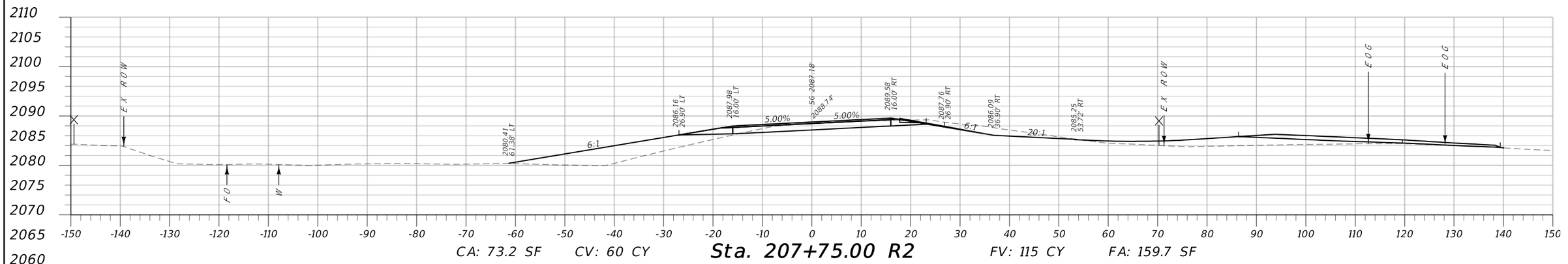
CA: 61.3 SF CV: 59 CY **Sta. 206+75.00 R2** FV: 61 CY FA: 67.6 SF



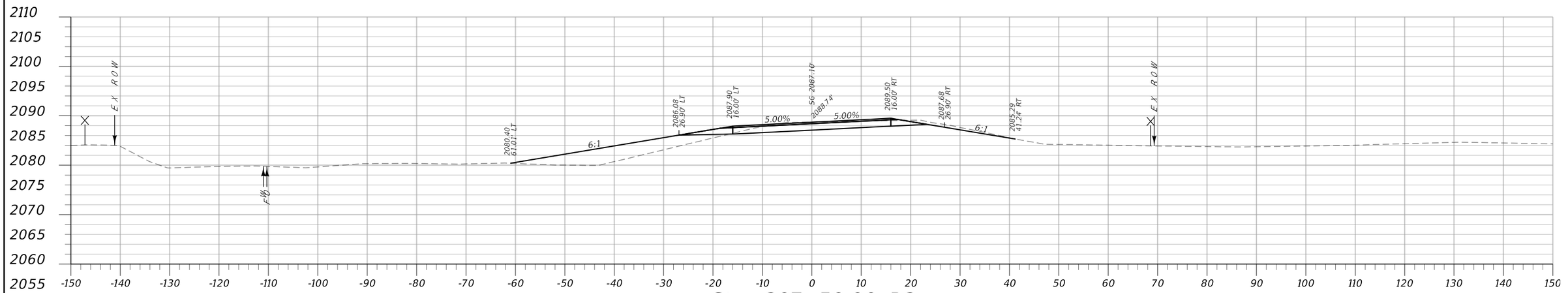
CA: 65.4 SF CV: 60 CY **Sta. 206+50.00 R2** FV: 66 CY FA: 65.0 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY	L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY					
	11:13:45 AM CPS - U3162	CHECKED BY			VALLEY COUNTY	UPN 9193000	SHEET 7

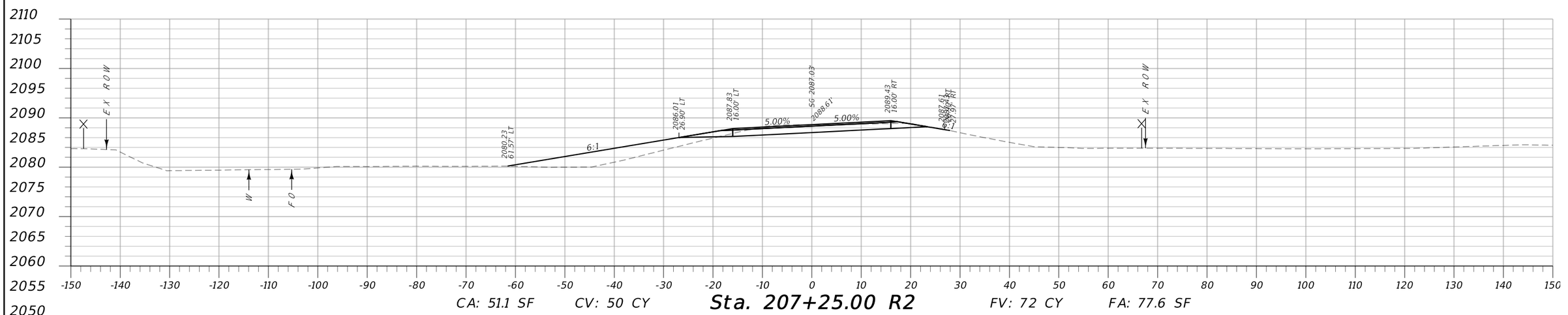
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CA: 73.2 SF CV: 60 CY **Sta. 207+75.00 R2** FV: 115 CY FA: 159.7 SF



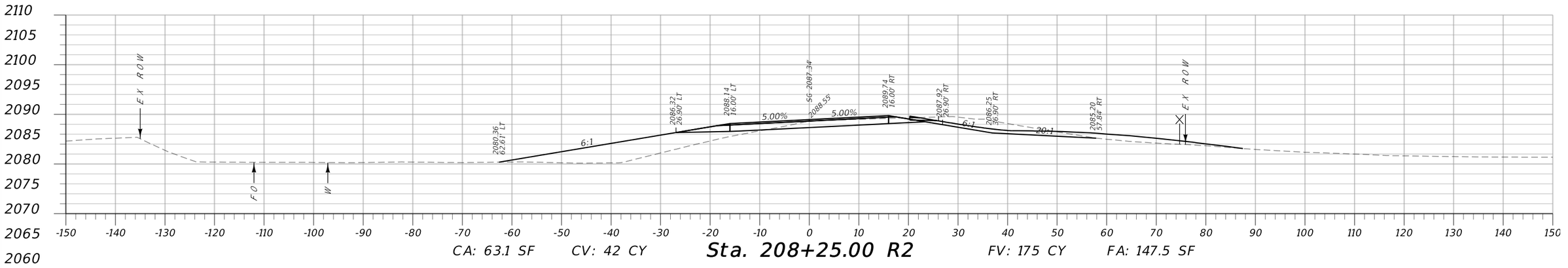
CA: 56.3 SF CV: 50 CY **Sta. 207+50.00 R2** FV: 77 CY FA: 88.7 SF



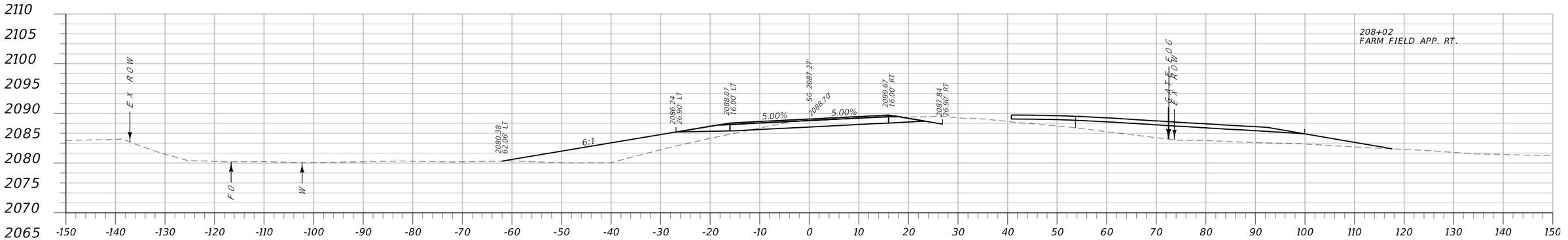
CA: 51.1 SF CV: 50 CY **Sta. 207+25.00 R2** FV: 72 CY FA: 77.6 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
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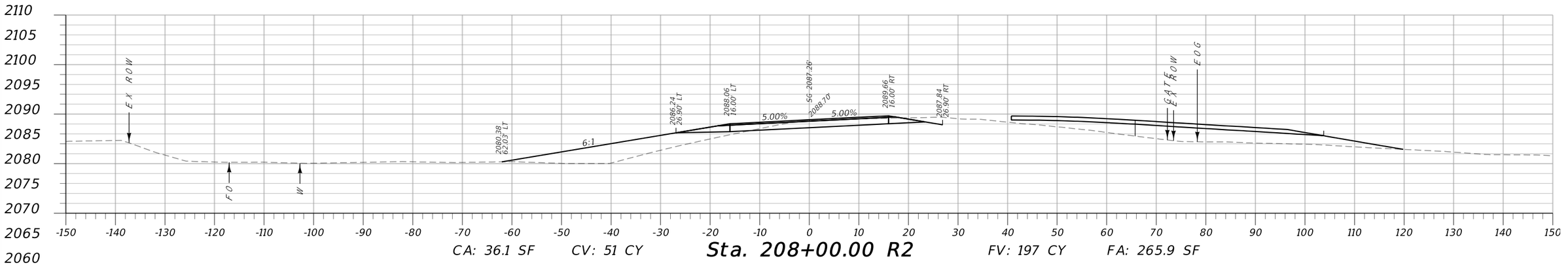
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CA: 63.1 SF CV: 42 CY **Sta. 208+25.00 R2** FV: 175 CY FA: 147.5 SF



CA: 35.8 SF CV: 3 CY **Sta. 208+02.00 R2** FV: 20 CY FA: 263.7 SF

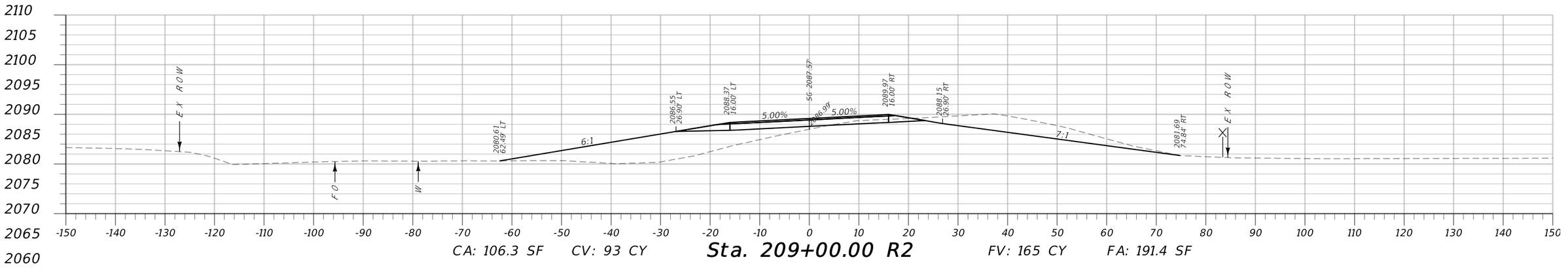


CA: 36.1 SF CV: 51 CY **Sta. 208+00.00 R2** FV: 197 CY FA: 265.9 SF

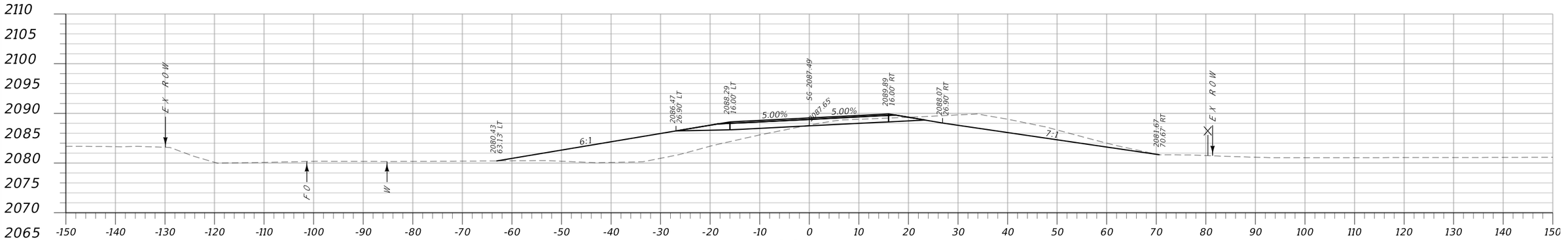
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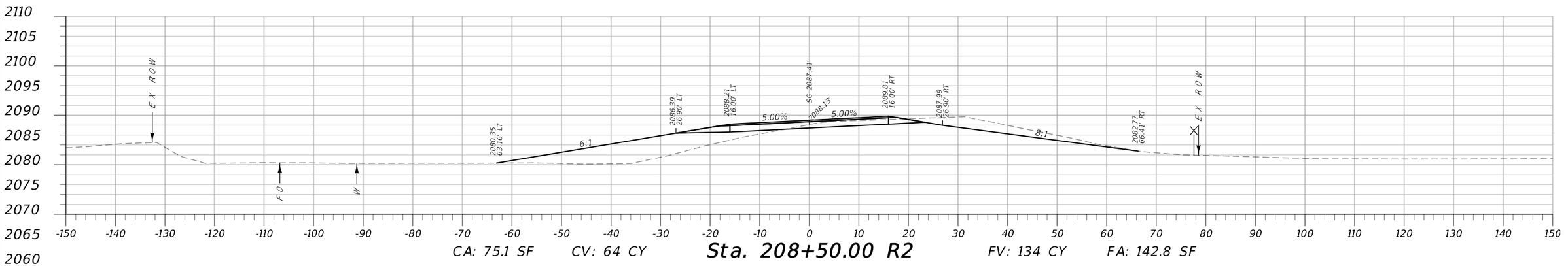
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CA: 106.3 SF CV: 93 CY **Sta. 209+00.00 R2** FV: 165 CY FA: 191.4 SF



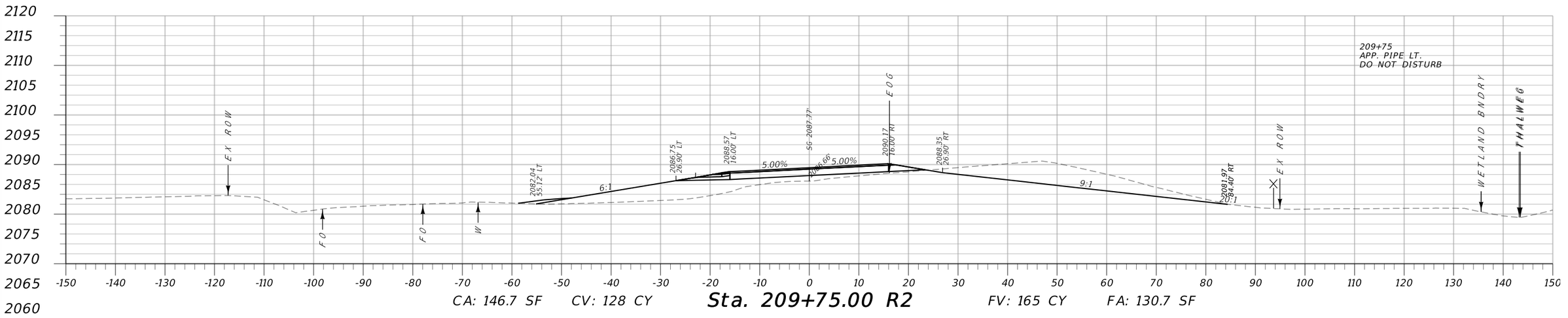
CA: 93.7 SF CV: 78 CY **Sta. 208+75.00 R2** FV: 143 CY FA: 165.9 SF



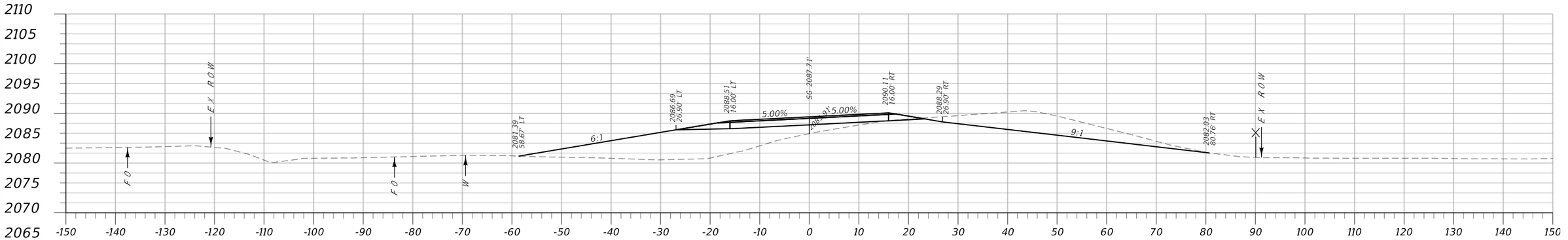
CA: 75.1 SF CV: 64 CY **Sta. 208+50.00 R2** FV: 134 CY FA: 142.8 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
	11:14:00 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 10

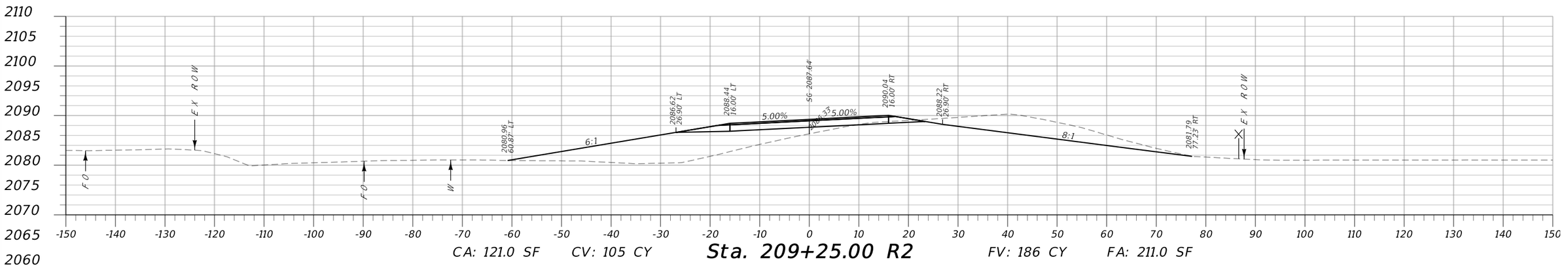
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CA: 146.7 SF CV: 128 CY **Sta. 209+75.00 R2** FV: 165 CY FA: 130.7 SF



CA: 128.8 SF CV: 116 CY **Sta. 209+50.00 R2** FV: 202 CY FA: 225.1 SF

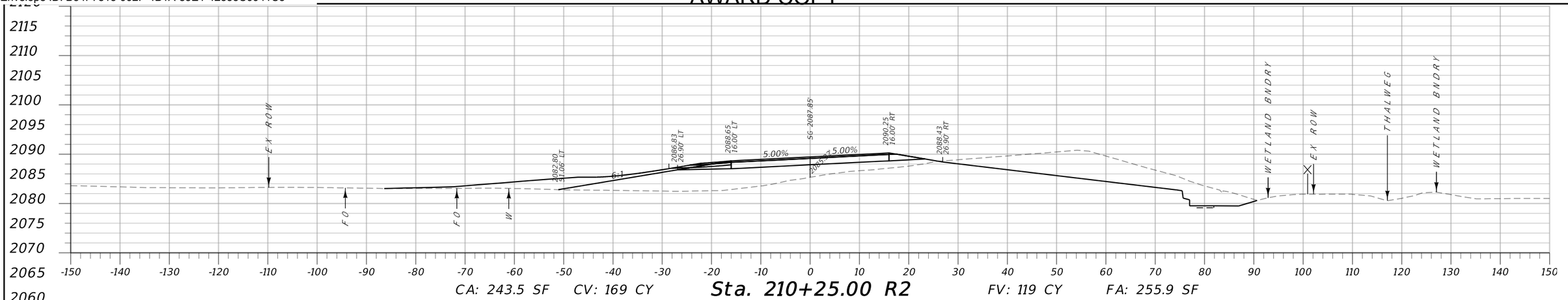


CA: 121.0 SF CV: 105 CY **Sta. 209+25.00 R2** FV: 186 CY FA: 211.0 SF

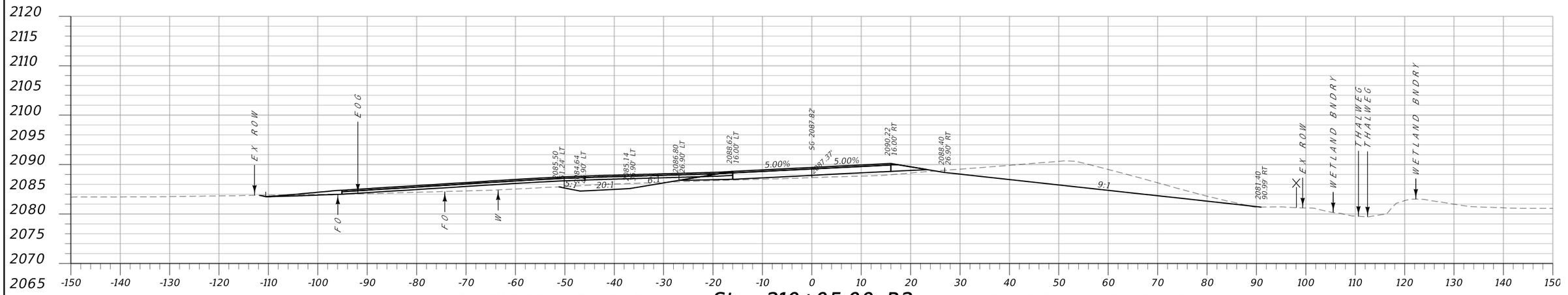
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	5/4/2021	REVIEWED BY		VALLEY COUNTY	UPN 9193000	SHEET 11
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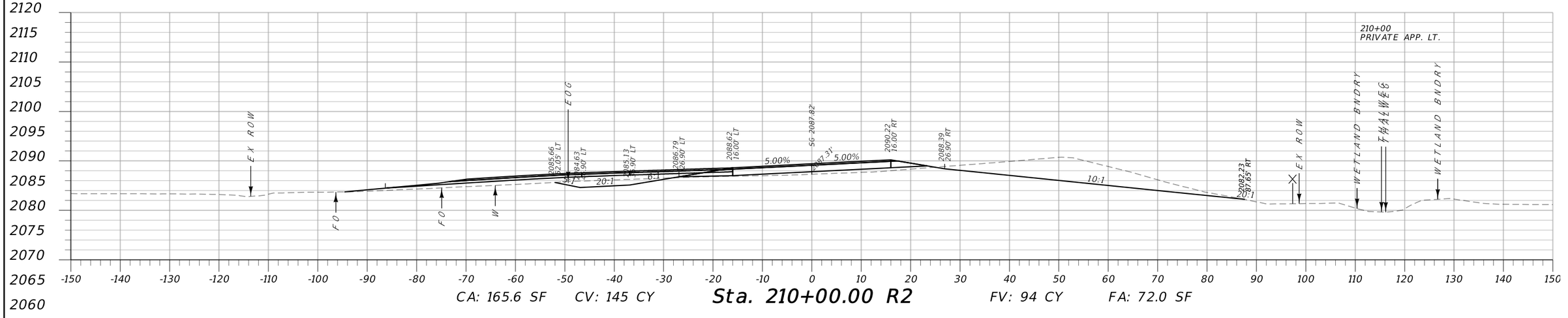
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CA: 243.5 SF CV: 169 CY **Sta. 210+25.00 R2** FV: 119 CY FA: 255.9 SF



CA: 211.7 SF CV: 35 CY **Sta. 210+05.00 R2** FV: 13 CY FA: 64.5 SF

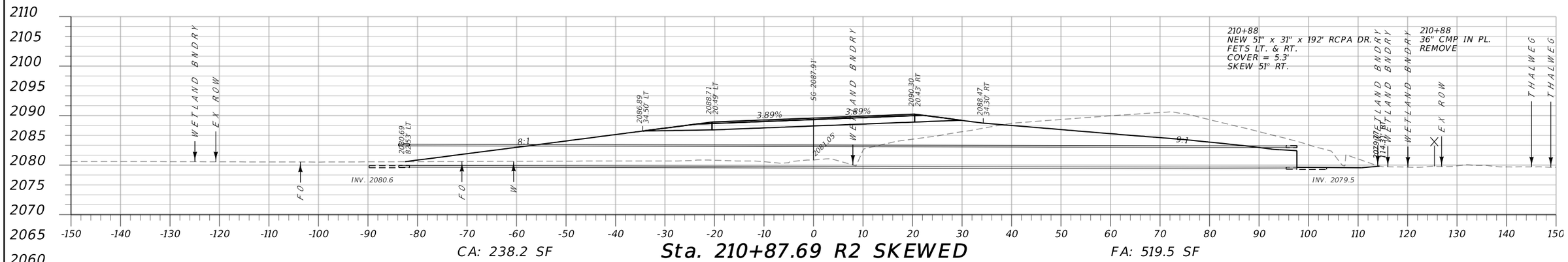


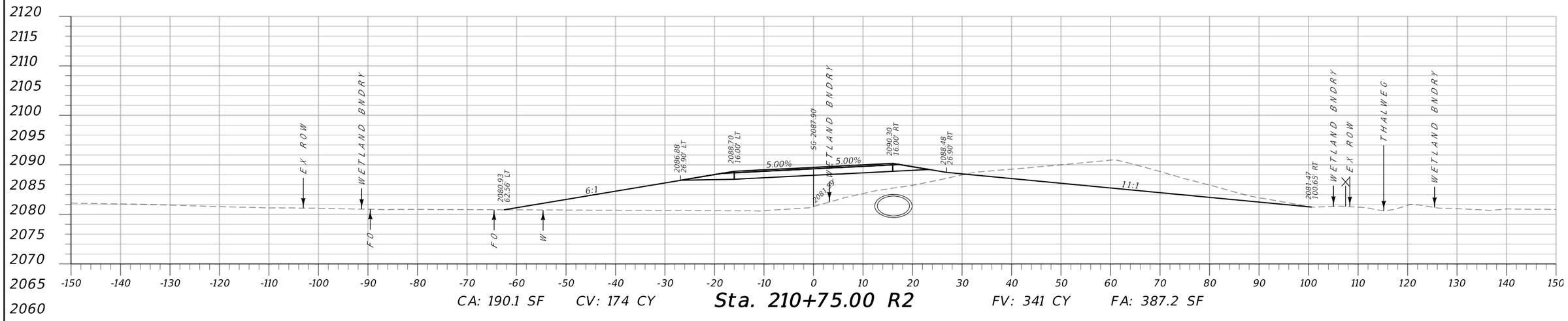
CA: 165.6 SF CV: 145 CY **Sta. 210+00.00 R2** FV: 94 CY FA: 72.0 SF

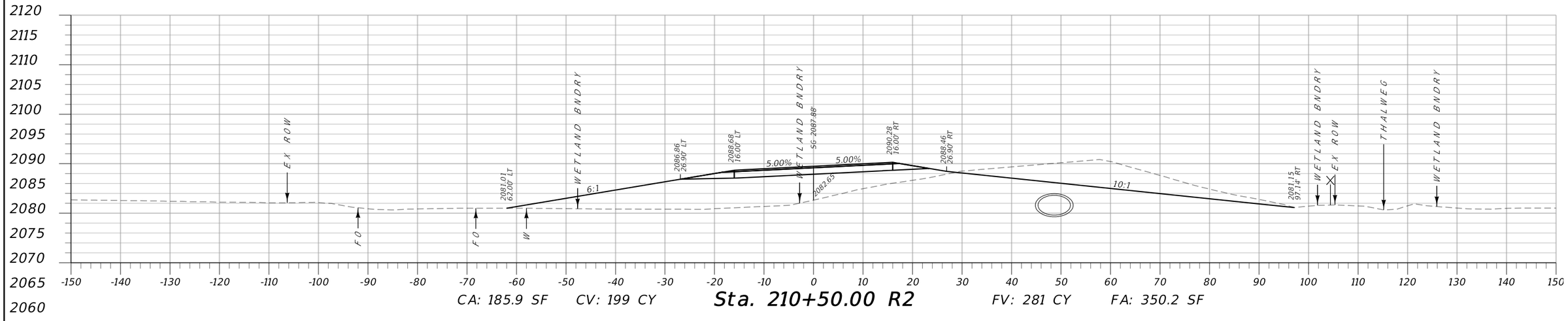
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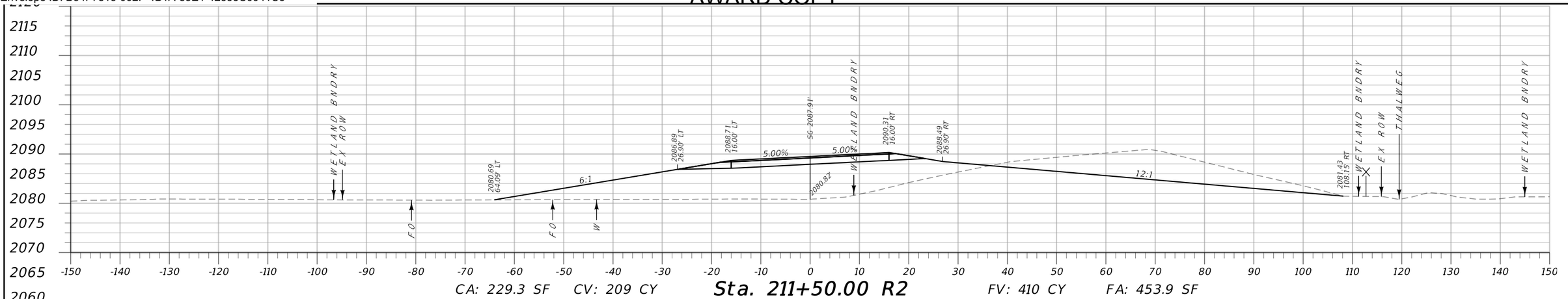




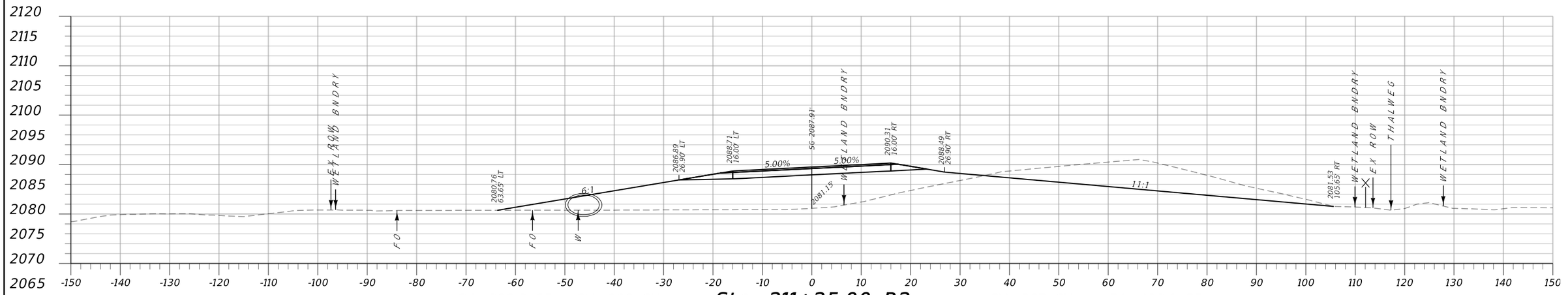


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	5/4/2021	REVIEWED BY				
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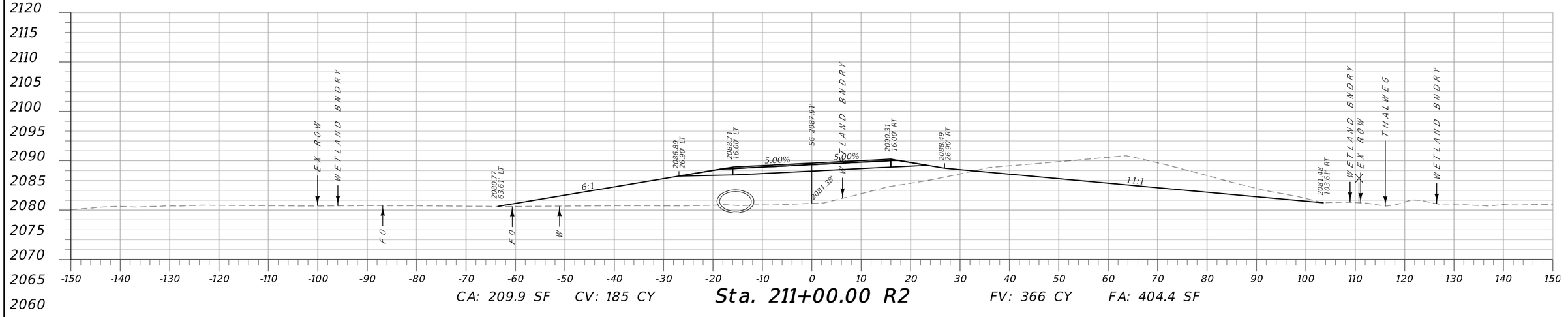
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CA: 229.3 SF CV: 209 CY **Sta. 211+50.00 R2** FV: 410 CY FA: 453.9 SF



CA: 222.3 SF CV: 200 CY **Sta. 211+25.00 R2** FV: 387 CY FA: 432.0 SF

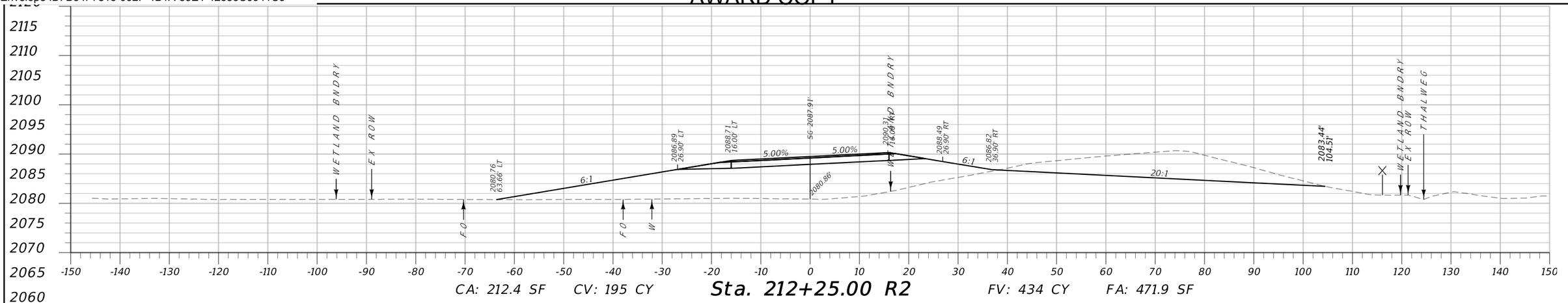


CA: 209.9 SF CV: 185 CY **Sta. 211+00.00 R2** FV: 366 CY FA: 404.4 SF

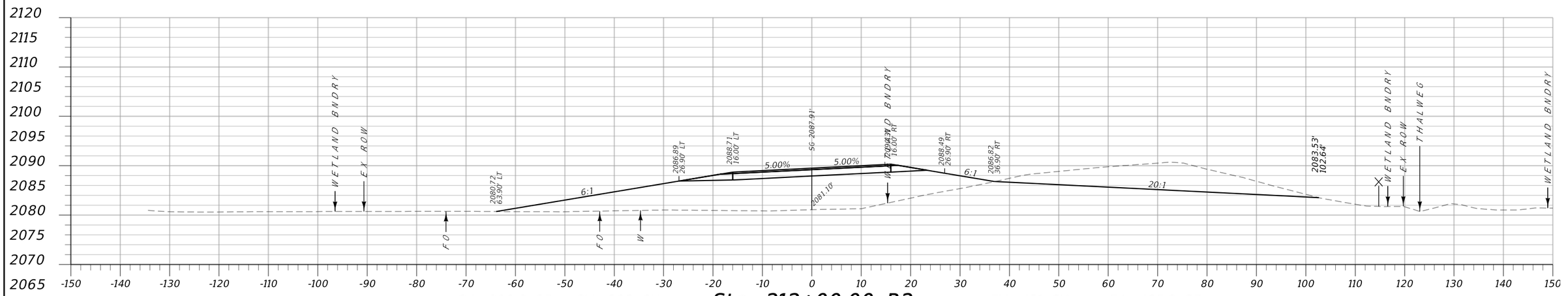
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	5/4/2021	REVIEWED BY				
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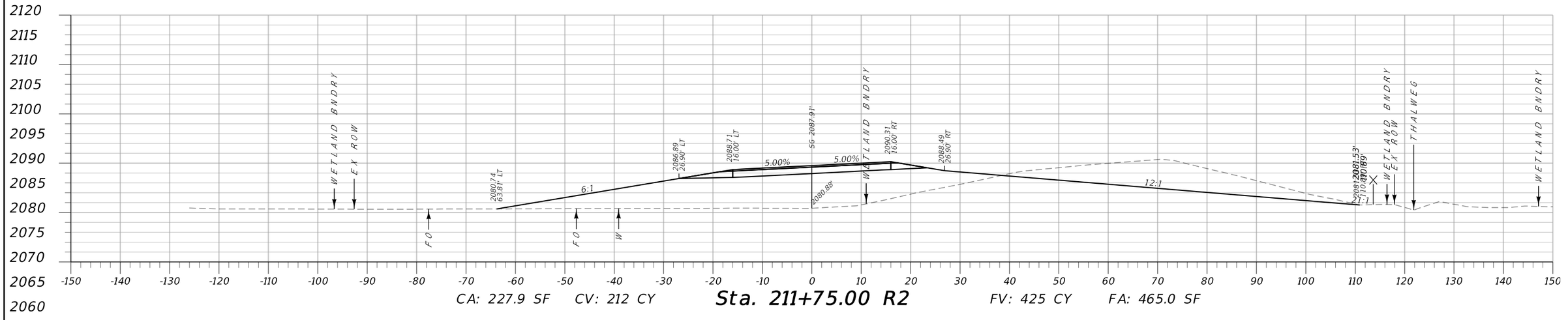
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CA: 212.4 SF CV: 195 CY **Sta. 212+25.00 R2** FV: 434 CY FA: 471.9 SF



CA: 208.8 SF CV: 202 CY **Sta. 212+00.00 R2** FV: 431 CY FA: 465.9 SF

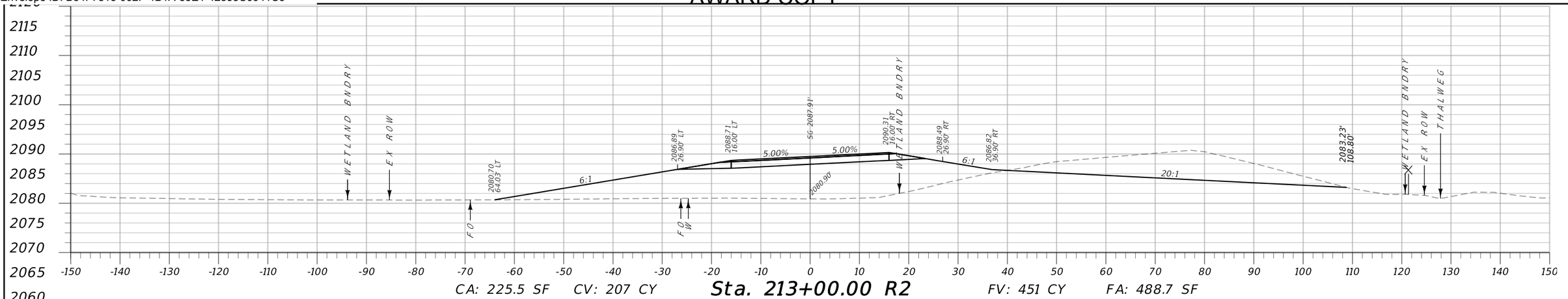


CA: 227.9 SF CV: 212 CY **Sta. 211+75.00 R2** FV: 425 CY FA: 465.0 SF

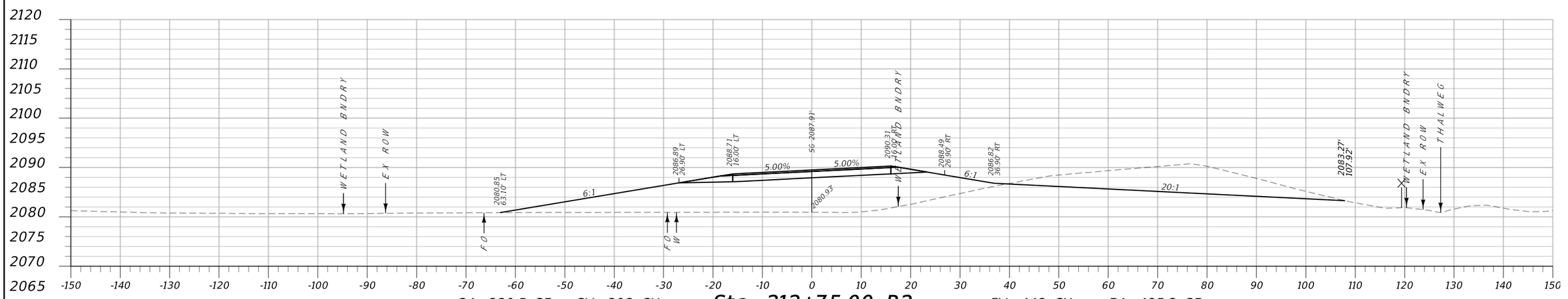
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
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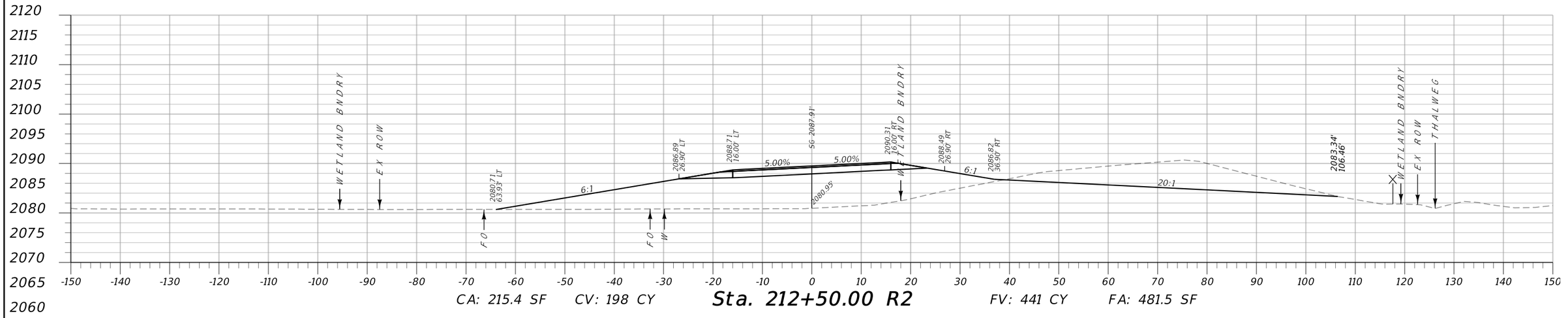
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CA: 225.5 SF CV: 207 CY **Sta. 213+00.00 R2** FV: 451 CY FA: 488.7 SF



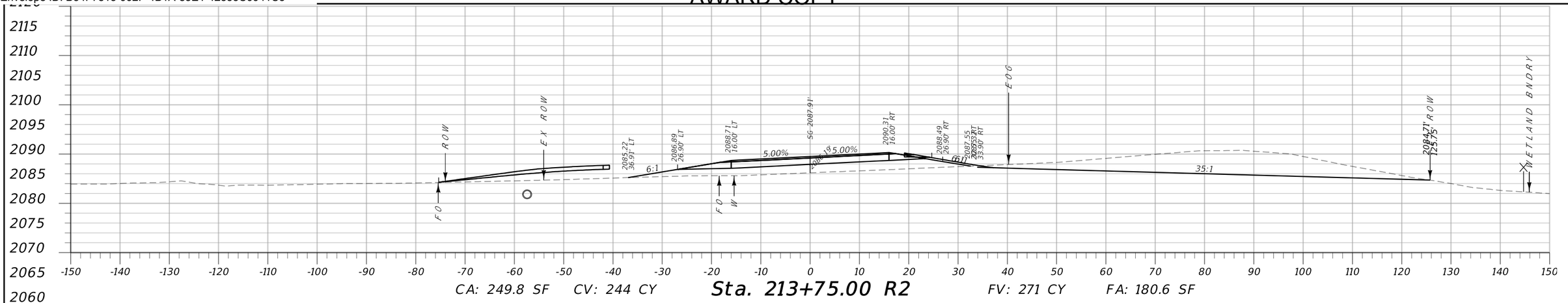
CA: 220.5 SF CV: 202 CY **Sta. 212+75.00 R2** FV: 448 CY FA: 485.3 SF

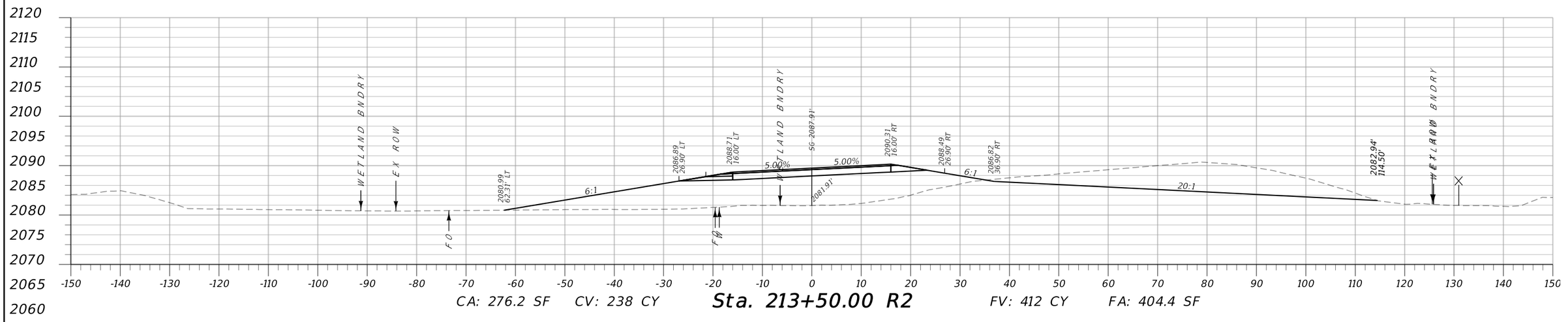


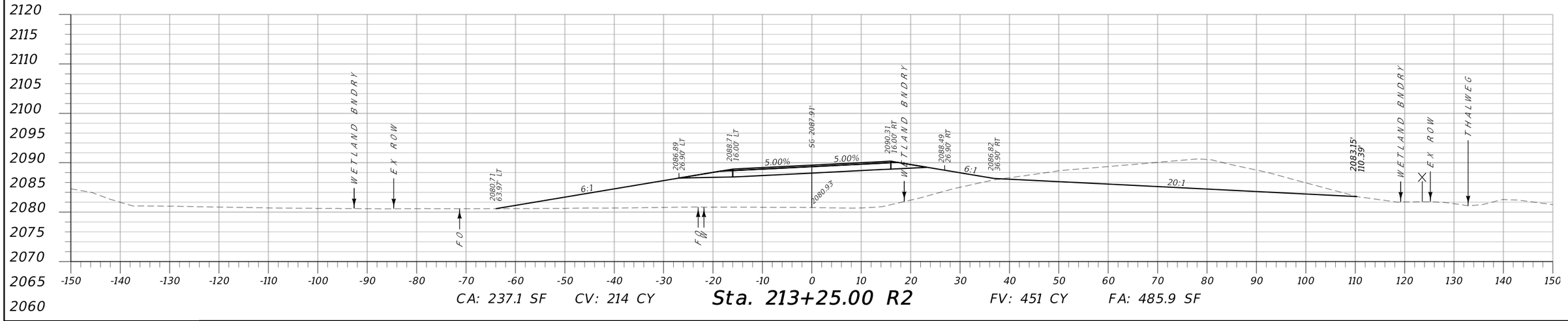
CA: 215.4 SF CV: 198 CY **Sta. 212+50.00 R2** FV: 441 CY FA: 481.5 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
	11:14:31 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 16

DocuSign Envelope ID: B34F7813-992F-4B1A-83E1-42335C9941C3

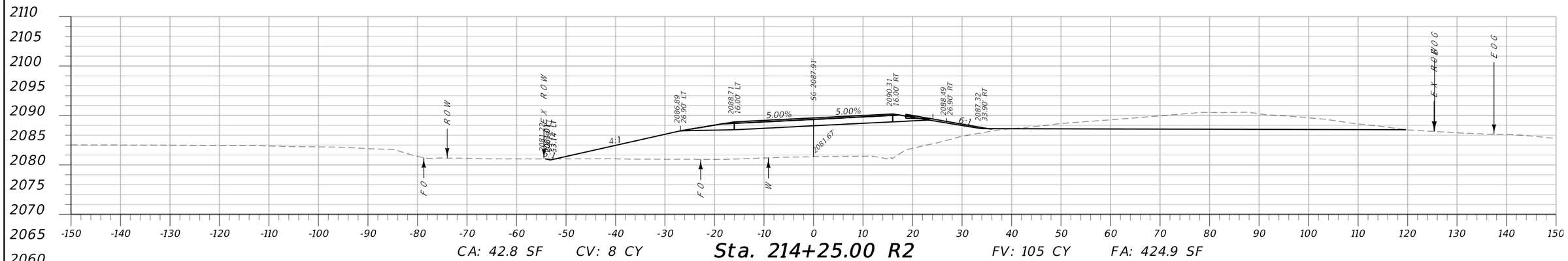




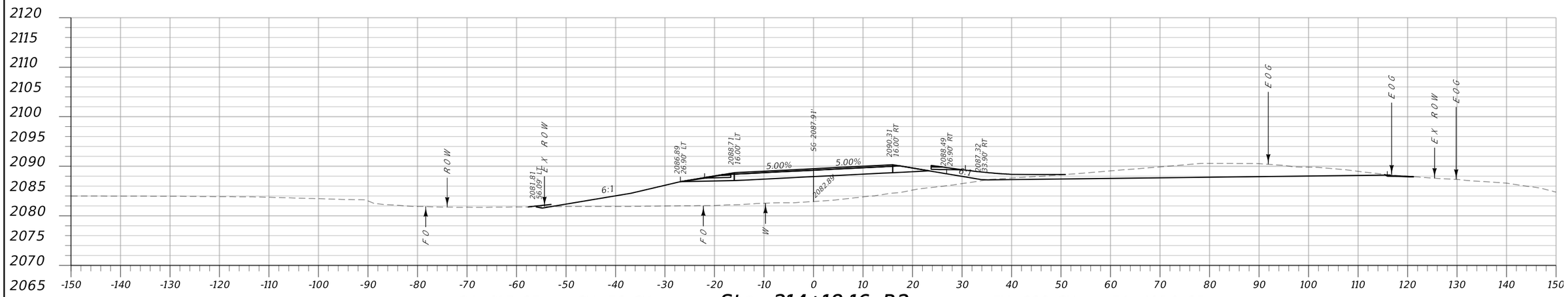


MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
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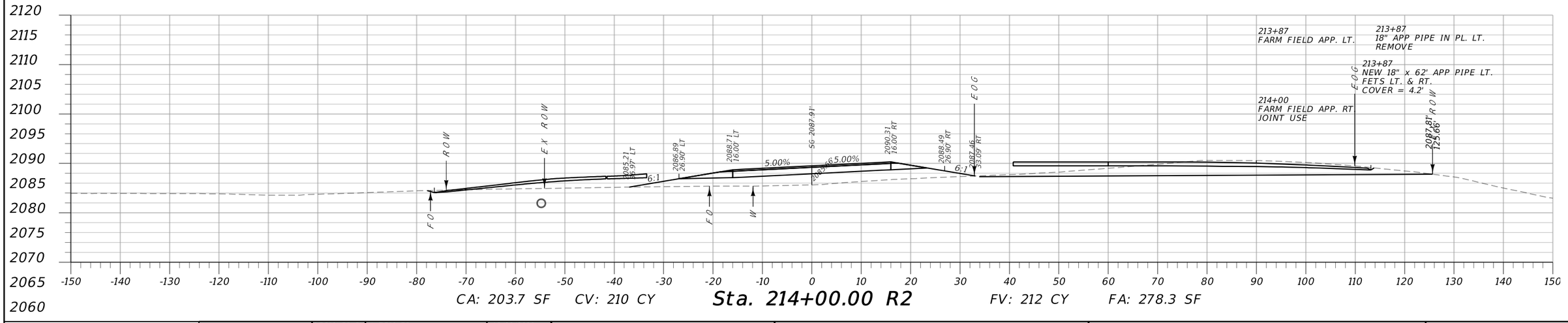
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CA: 42.8 SF CV: 8 CY **Sta. 214+25.00 R2** FV: 105 CY FA: 424.9 SF



CA: 21.7 SF CV: 76 CY **Sta. 214+18.16 R2** FV: 230 CY FA: 405.0 SF

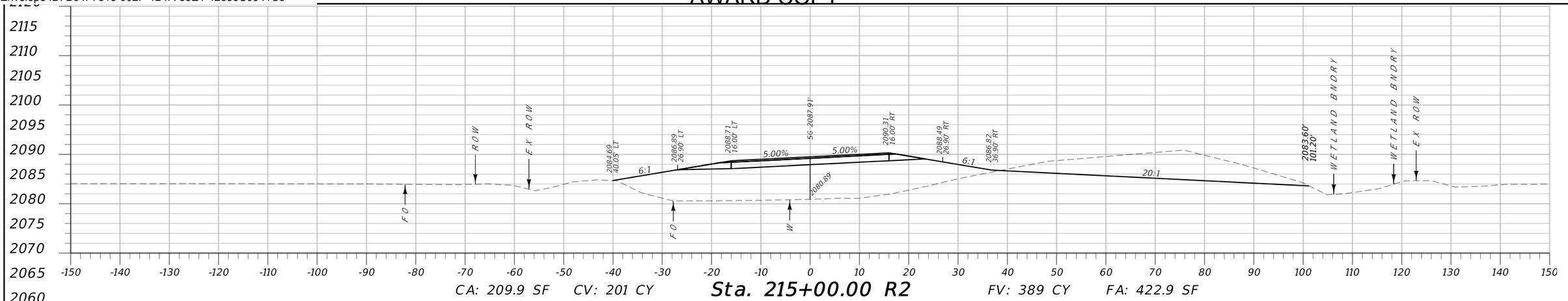


CA: 203.7 SF CV: 210 CY **Sta. 214+00.00 R2** FV: 212 CY FA: 278.3 SF

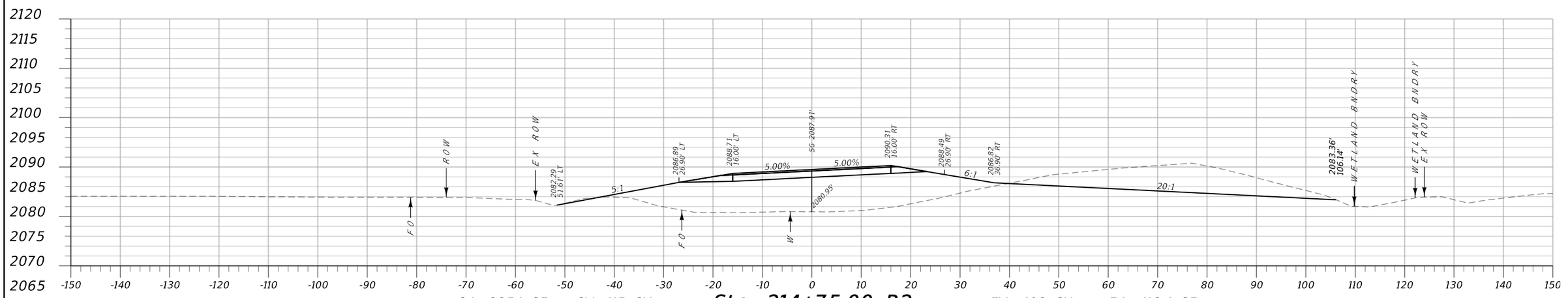
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY		VALLEY COUNTY	UPN 9193000	SHEET 18
	11:14:41 AM CPS - U3162	CHECKED BY				

DocuSign Envelope ID: B34F7813-992F-4B1A-83E1-42335C9941C3

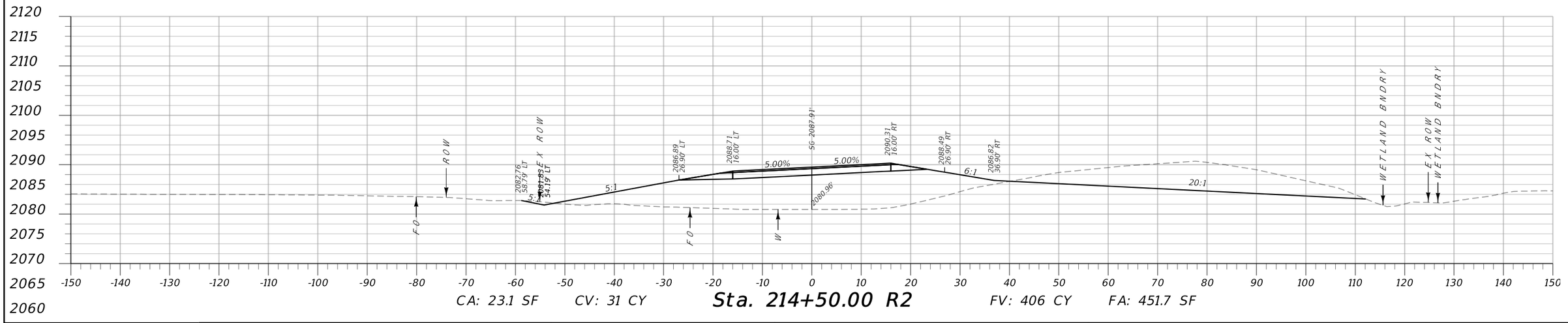
AWARD COPY



CA: 209.9 SF CV: 201 CY **Sta. 215+00.00 R2** FV: 389 CY FA: 422.9 SF



CA: 225.1 SF CV: 115 CY **Sta. 214+75.00 R2** FV: 402 CY FA: 416.4 SF

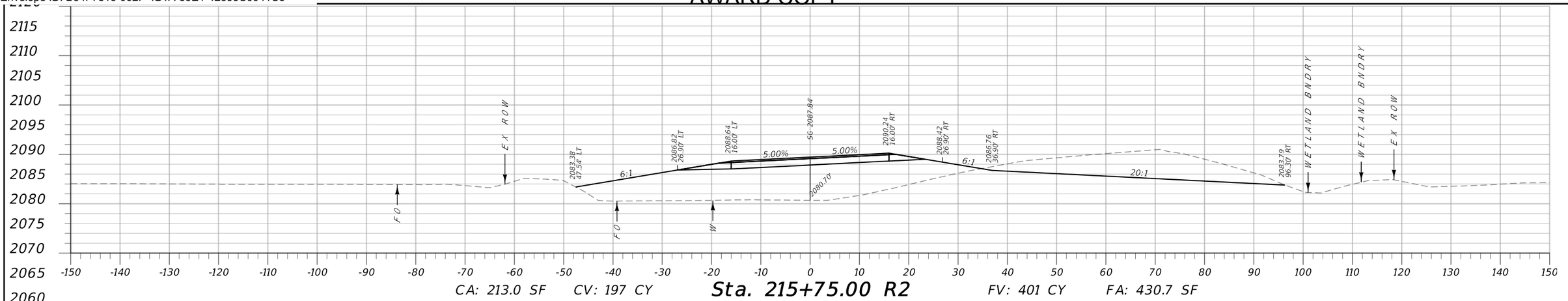


CA: 23.1 SF CV: 31 CY **Sta. 214+50.00 R2** FV: 406 CY FA: 451.7 SF

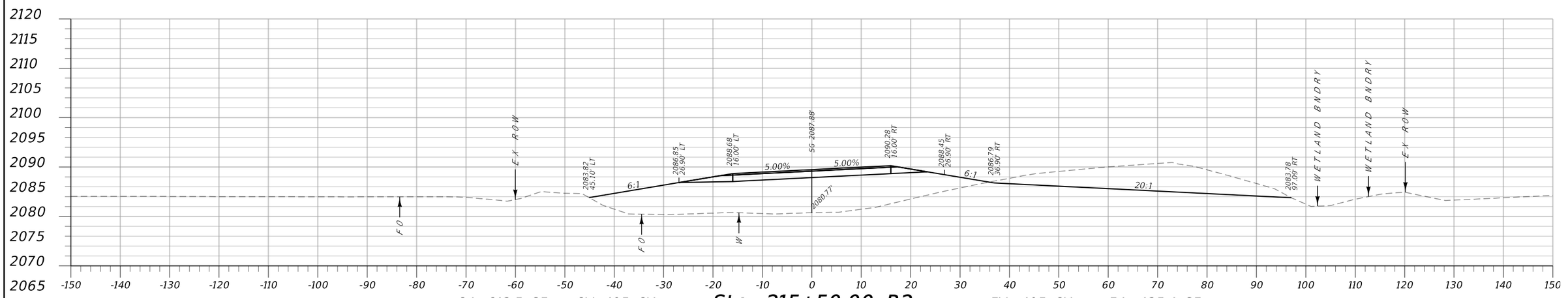
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY		VALLEY COUNTY	UPN 9193000	SHEET 19
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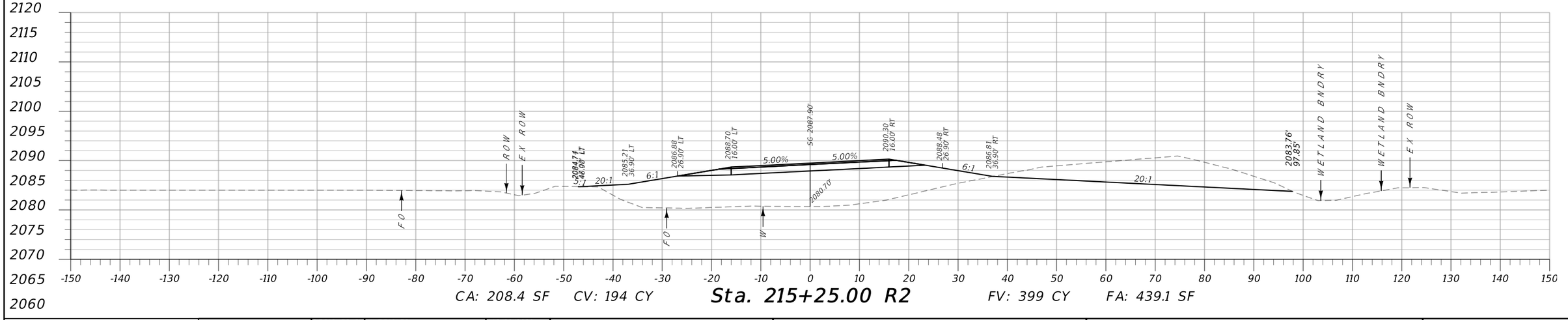
AWARD COPY



CA: 213.0 SF CV: 197 CY **Sta. 215+75.00 R2** FV: 401 CY FA: 430.7 SF



CA: 213.5 SF CV: 195 CY **Sta. 215+50.00 R2** FV: 405 CY FA: 435.4 SF

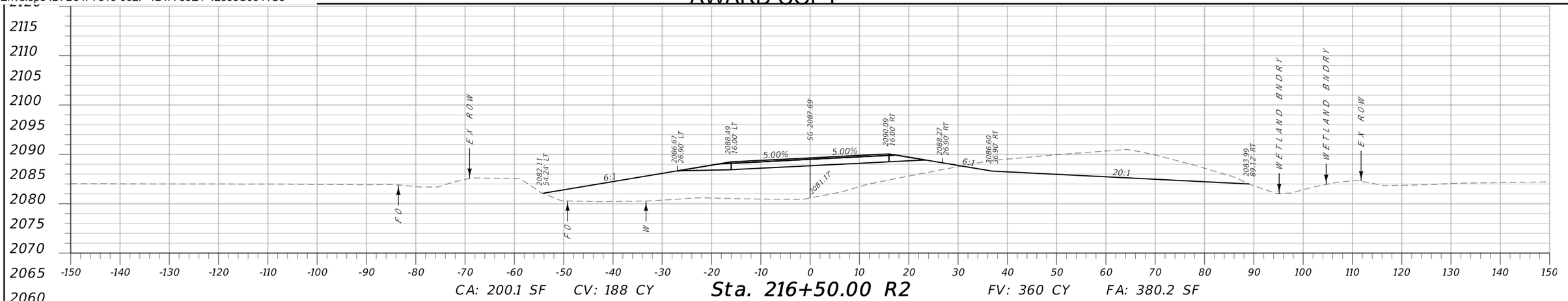


CA: 208.4 SF CV: 194 CY **Sta. 215+25.00 R2** FV: 399 CY FA: 439.1 SF

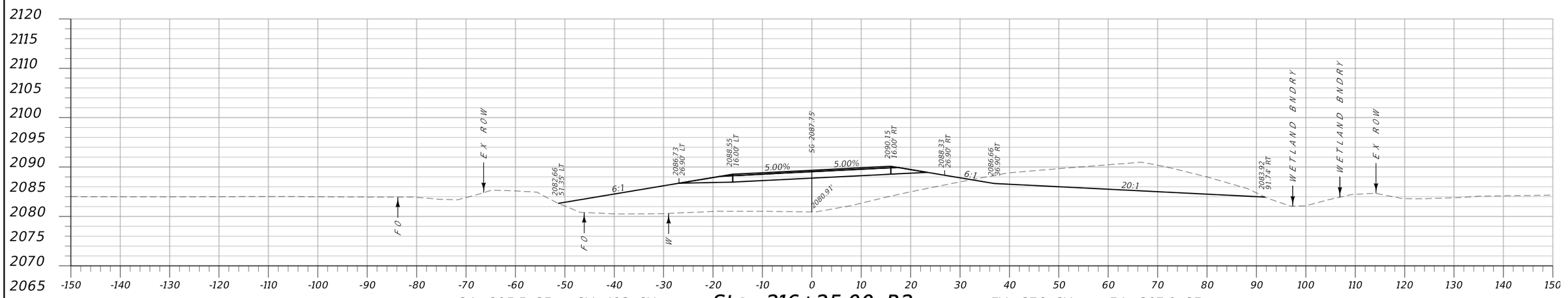
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY		VALLEY COUNTY	UPN 9193000	SHEET 20
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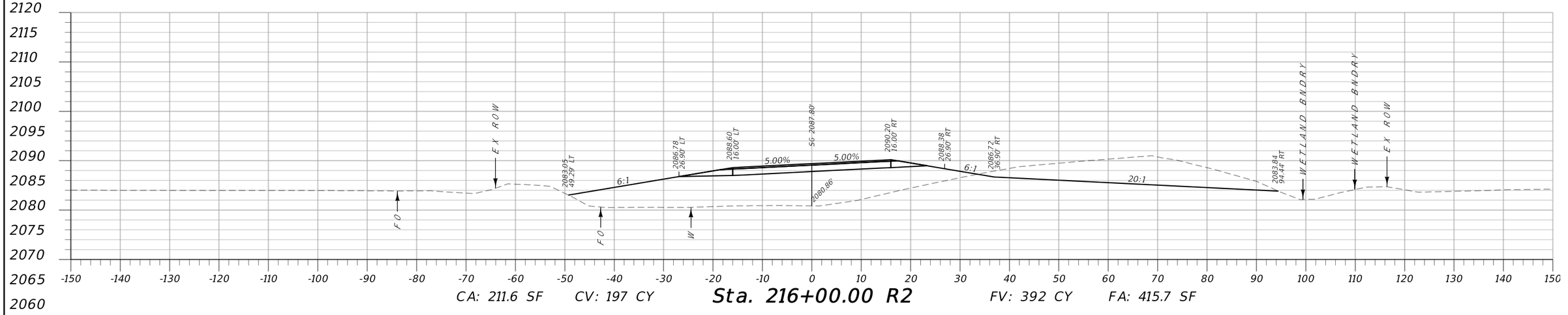
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CA: 200.1 SF CV: 188 CY **Sta. 216+50.00 R2** FV: 360 CY FA: 380.2 SF



CA: 205.5 SF CV: 193 CY **Sta. 216+25.00 R2** FV: 376 CY FA: 397.0 SF

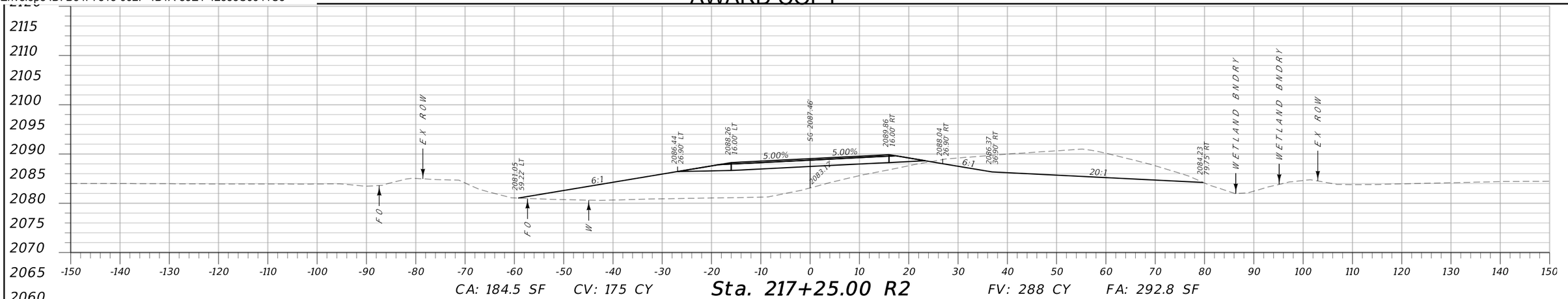


CA: 211.6 SF CV: 197 CY **Sta. 216+00.00 R2** FV: 392 CY FA: 415.7 SF

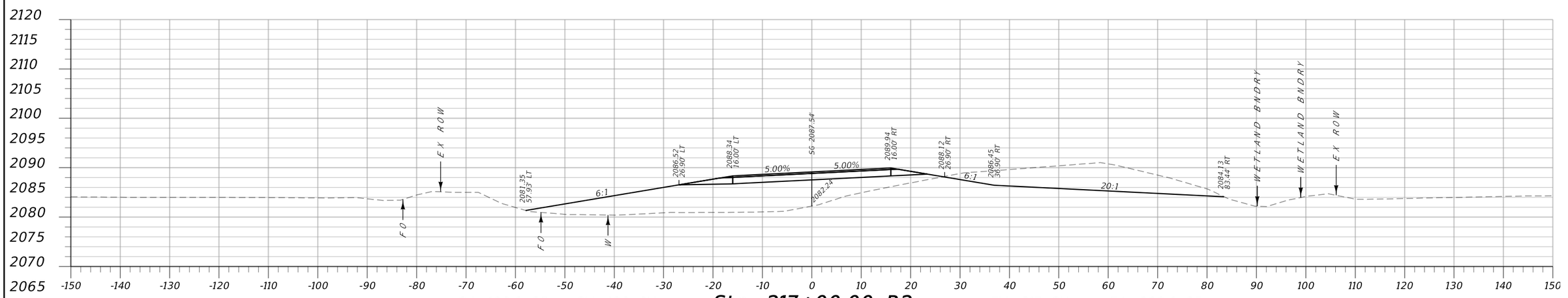
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY		VALLEY COUNTY	UPN 9193000	SHEET 21
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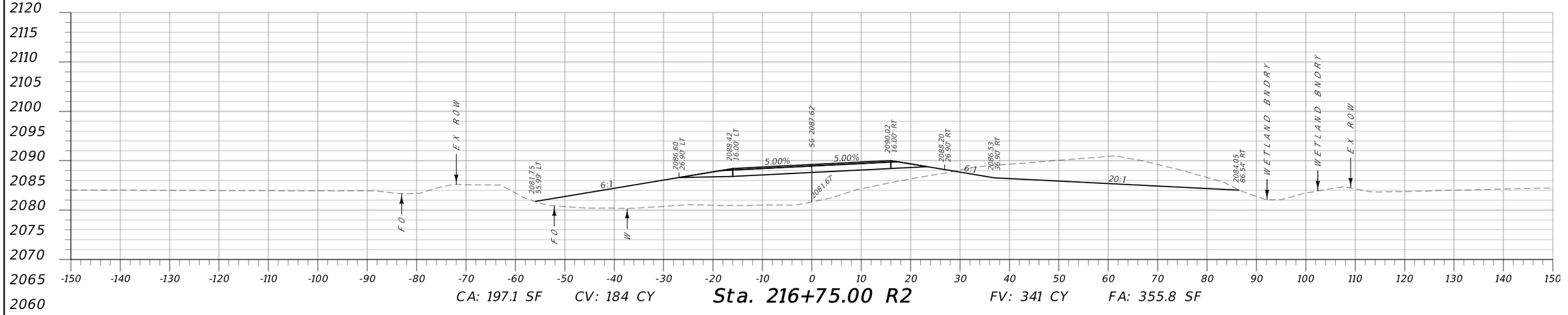
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CA: 184.5 SF CV: 175 CY **Sta. 217+25.00 R2** FV: 288 CY FA: 292.8 SF



CA: 192.8 SF CV: 180 CY **Sta. 217+00.00 R2** FV: 317 CY FA: 329.0 SF

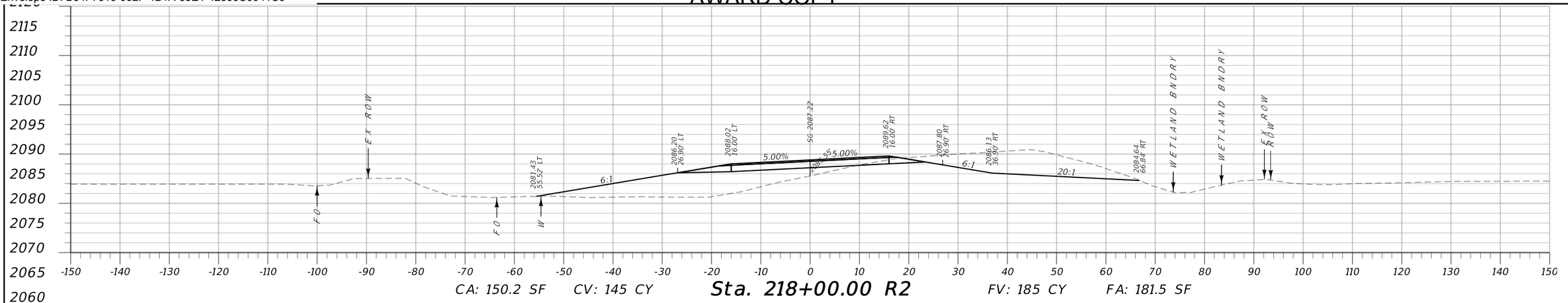


CA: 197.1 SF CV: 184 CY **Sta. 216+75.00 R2** FV: 341 CY FA: 355.8 SF

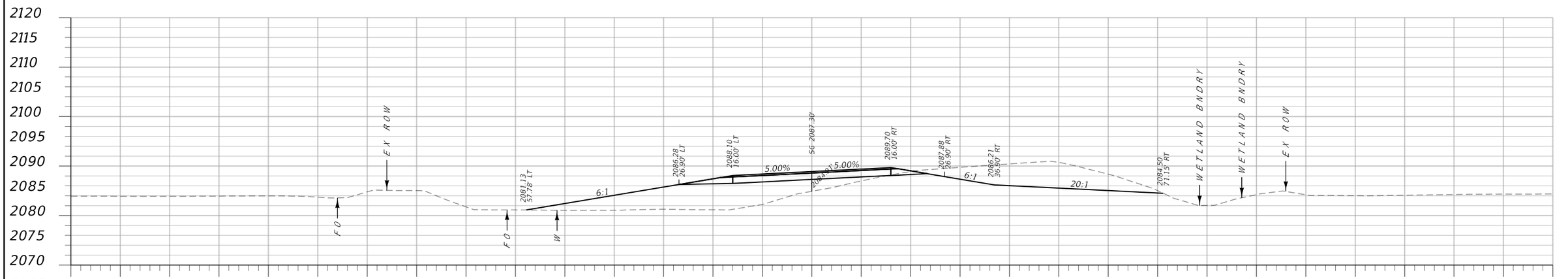
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
	11:15:01 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 22

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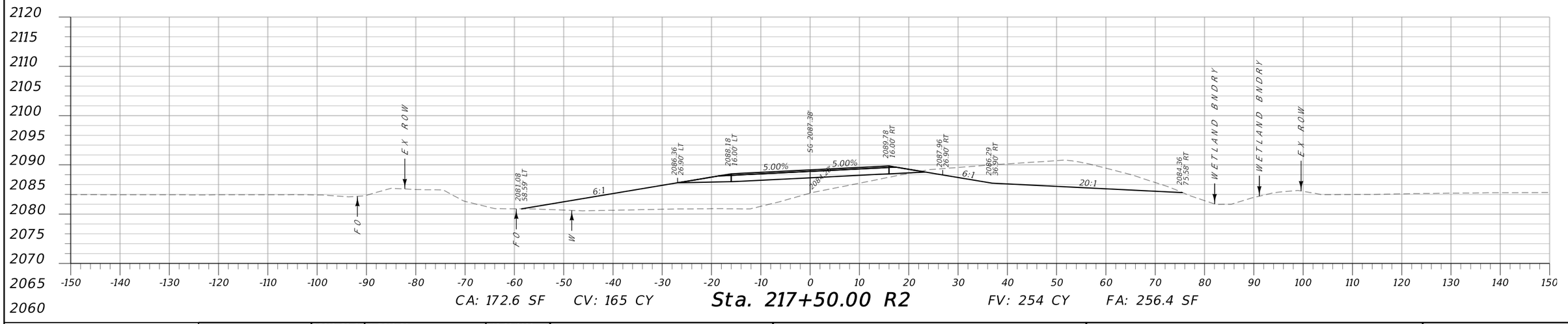
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CA: 150.2 SF CV: 145 CY **Sta. 218+00.00 R2** FV: 185 CY FA: 181.5 SF



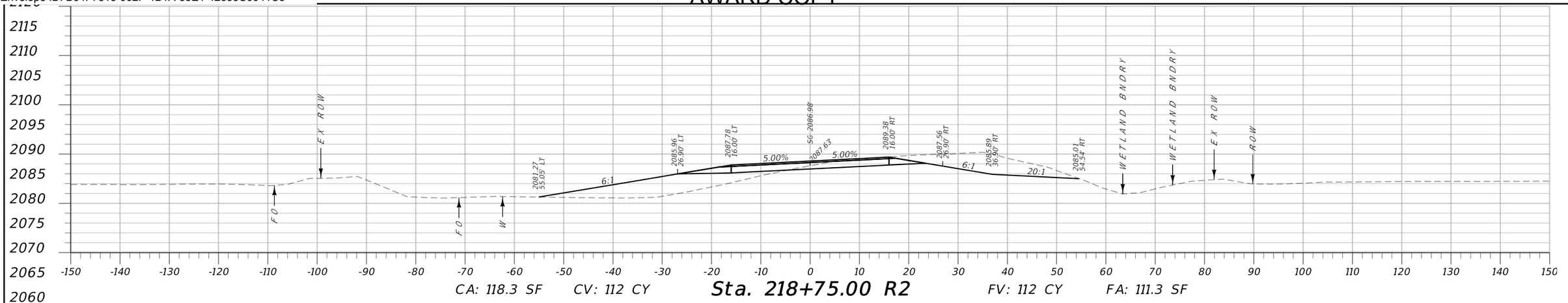
CA: 162.1 SF CV: 155 CY **Sta. 217+75.00 R2** FV: 220 CY FA: 217.9 SF

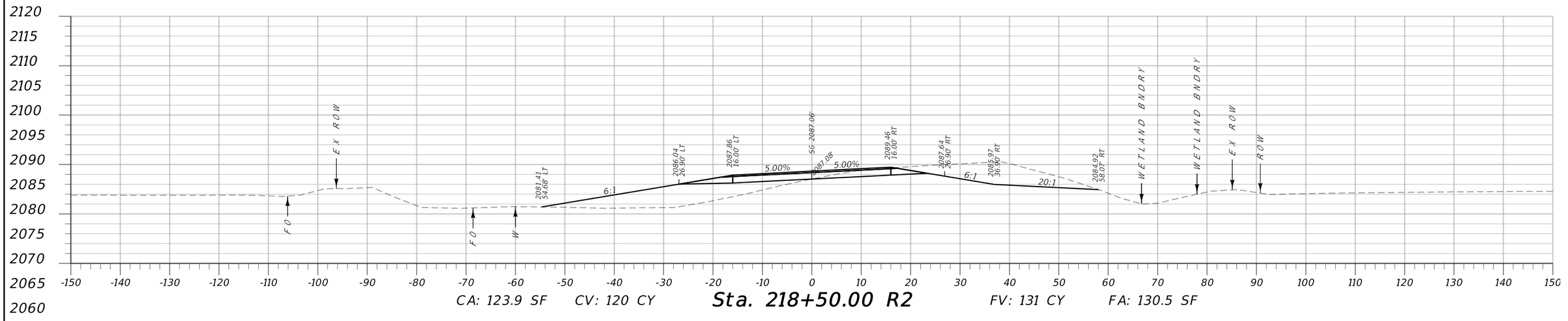


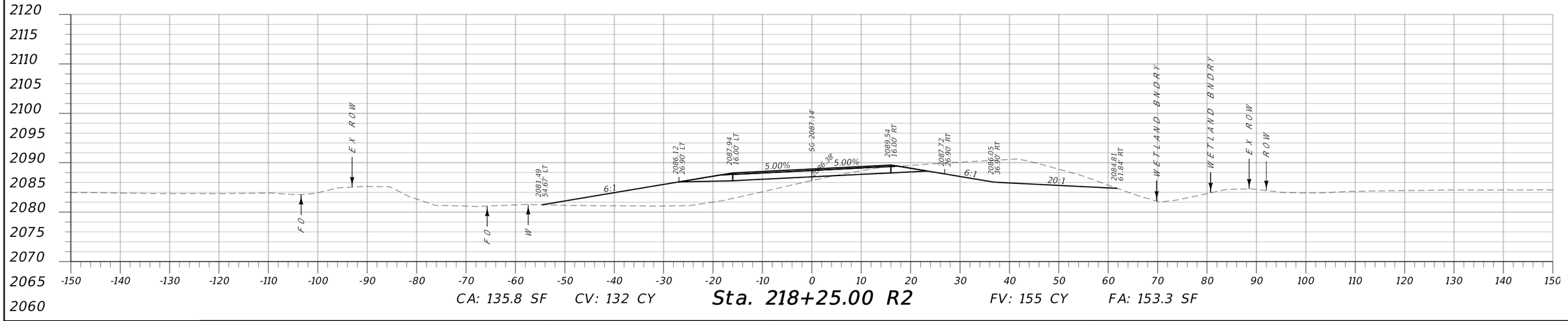
CA: 172.6 SF CV: 165 CY **Sta. 217+50.00 R2** FV: 254 CY FA: 256.4 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
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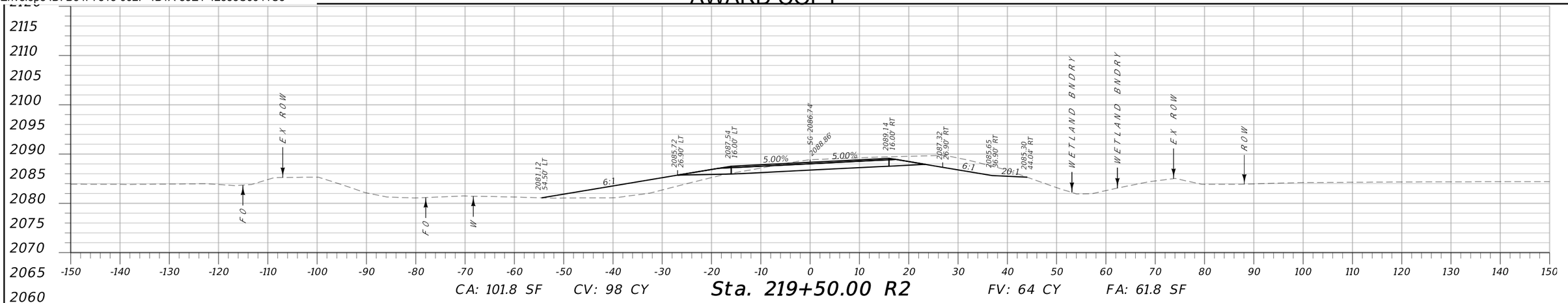




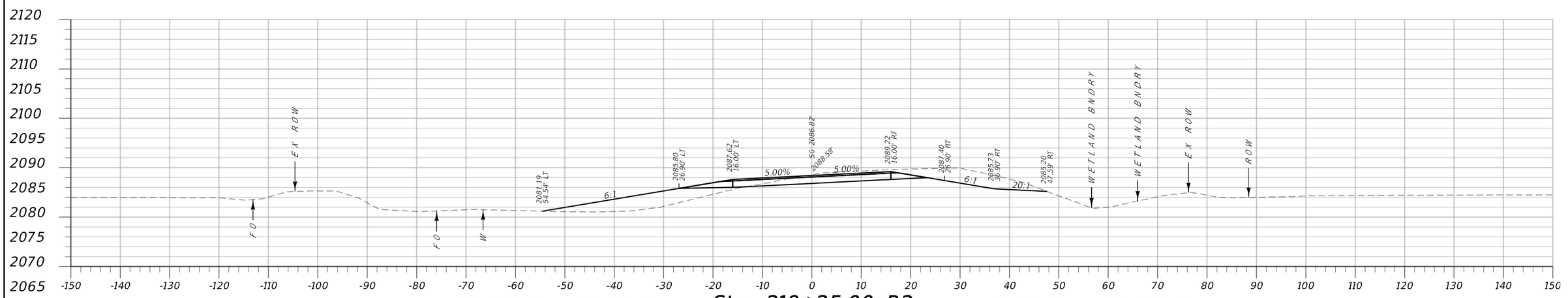


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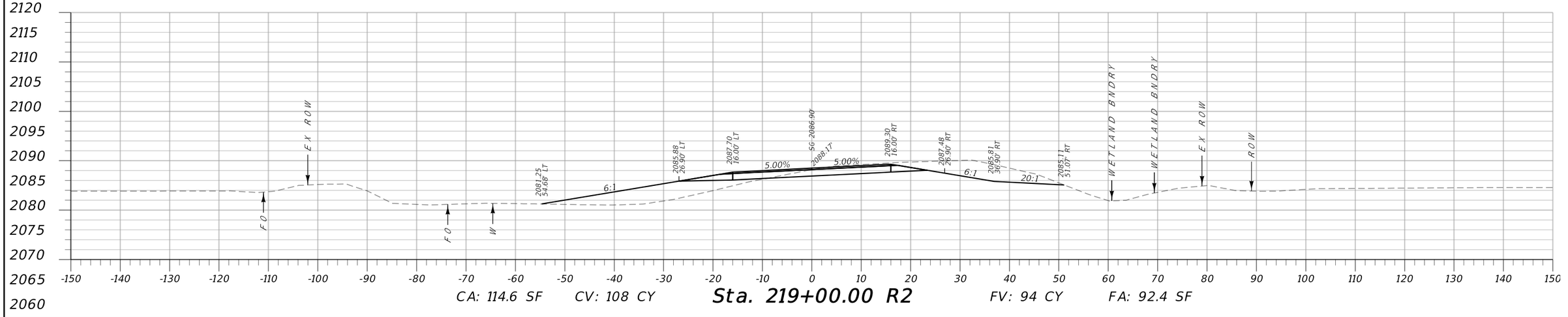
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CA: 101.8 SF CV: 98 CY **Sta. 219+50.00 R2** FV: 64 CY FA: 61.8 SF



CA: 110.0 SF CV: 104 CY **Sta. 219+25.00 R2** FV: 78 CY FA: 76.2 SF

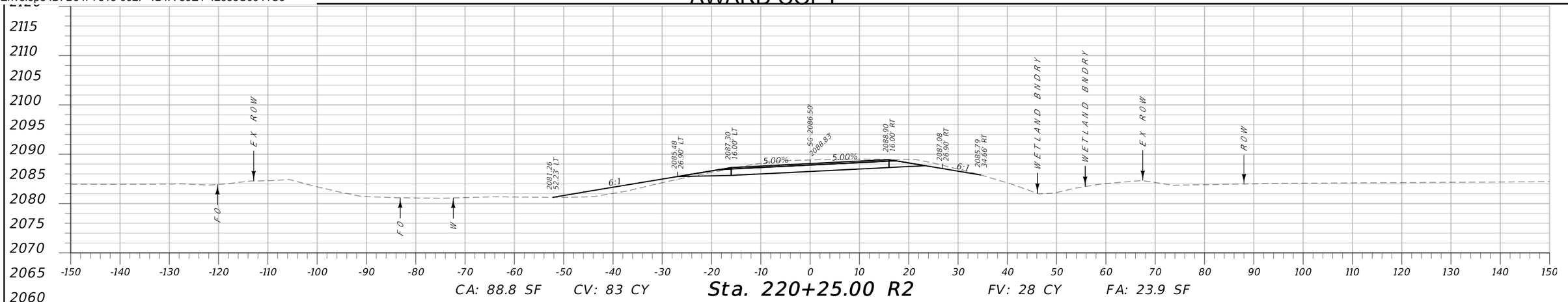


CA: 114.6 SF CV: 108 CY **Sta. 219+00.00 R2** FV: 94 CY FA: 92.4 SF

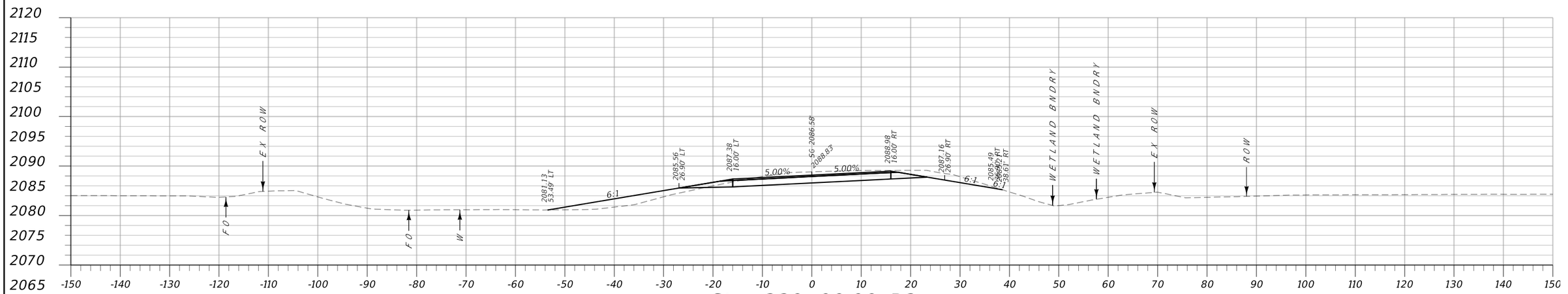
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	5/4/2021	REVIEWED BY				
	11:15:16 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 25

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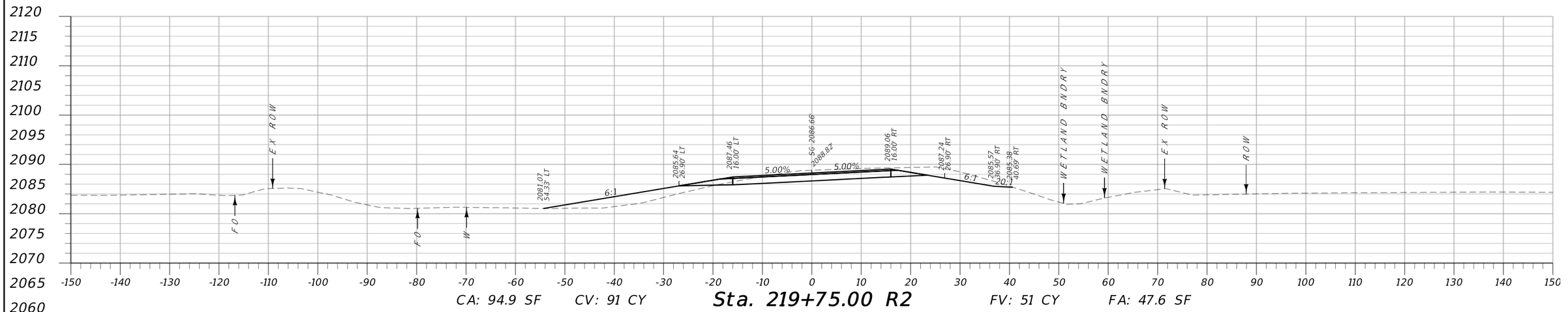
AWARD COPY



CA: 88.8 SF CV: 83 CY **Sta. 220+25.00 R2** FV: 28 CY FA: 23.9 SF



CA: 91.5 SF CV: 86 CY **Sta. 220+00.00 R2** FV: 39 CY FA: 35.9 SF

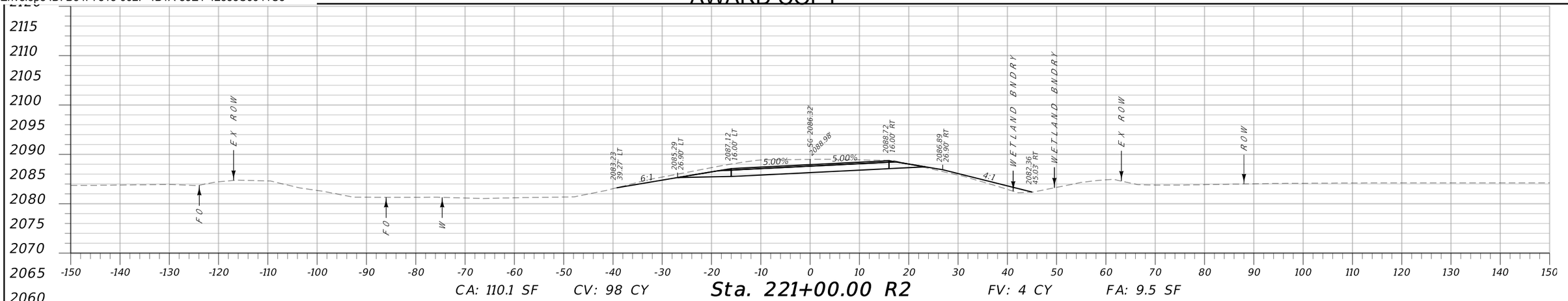


CA: 94.9 SF CV: 91 CY **Sta. 219+75.00 R2** FV: 51 CY FA: 47.6 SF

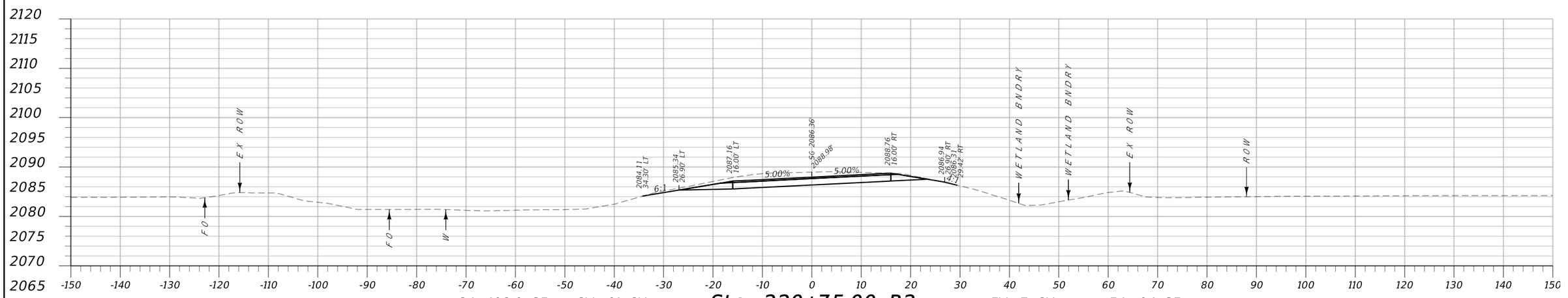
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
	11:15:21 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 26

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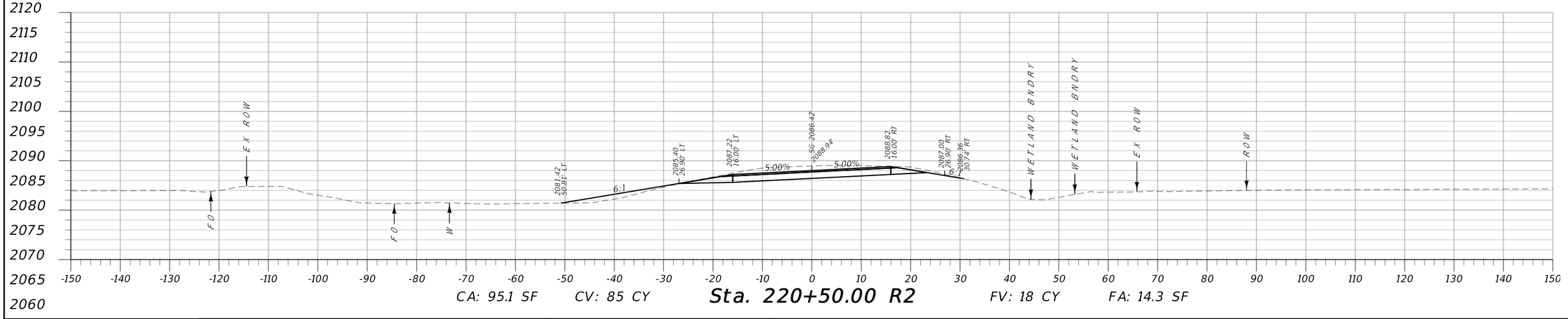
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CA: 110.1 SF CV: 98 CY **Sta. 221+00.00 R2** FV: 4 CY FA: 9.5 SF



CA: 102.0 SF CV: 91 CY **Sta. 220+75.00 R2** FV: 7 CY FA: 0.1 SF

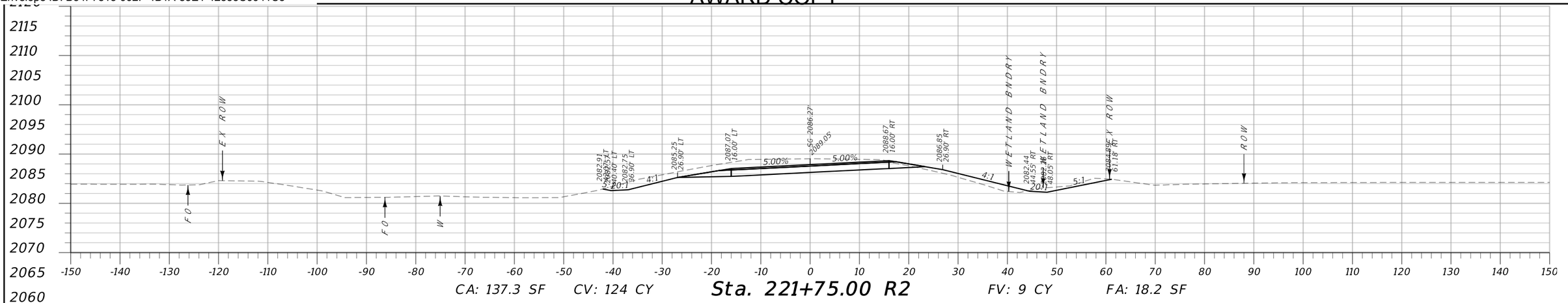


CA: 95.1 SF CV: 85 CY **Sta. 220+50.00 R2** FV: 18 CY FA: 14.3 SF

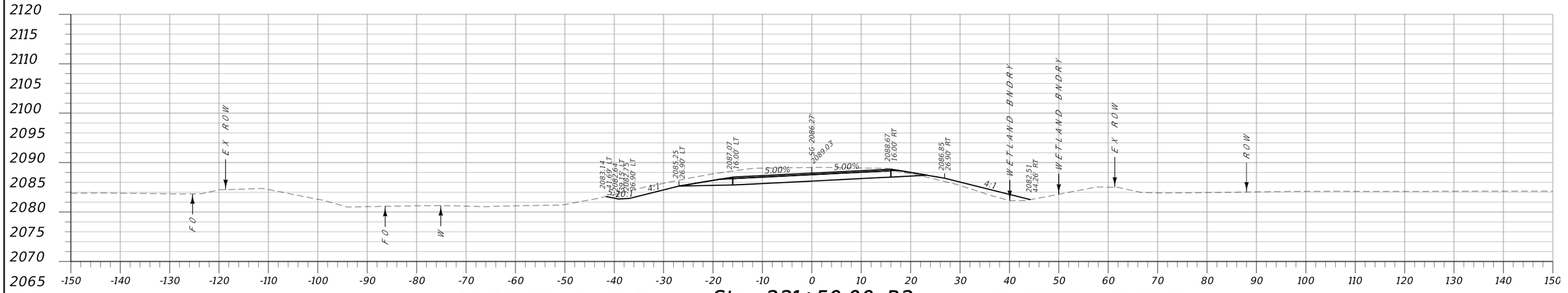
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV / HSIP 42-3(23)72
	5/4/2021	REVIEWED BY		VALLEY COUNTY	UPN 9193000 / SHEET 27
	11:15:25 AM CPS - U3162	CHECKED BY			

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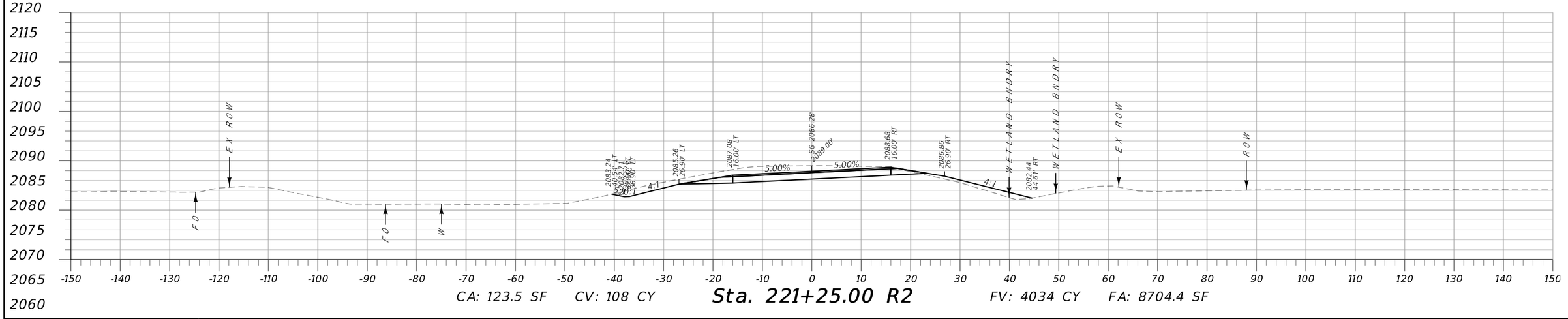
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CA: 137.3 SF CV: 124 CY **Sta. 221+75.00 R2** FV: 9 CY FA: 18.2 SF



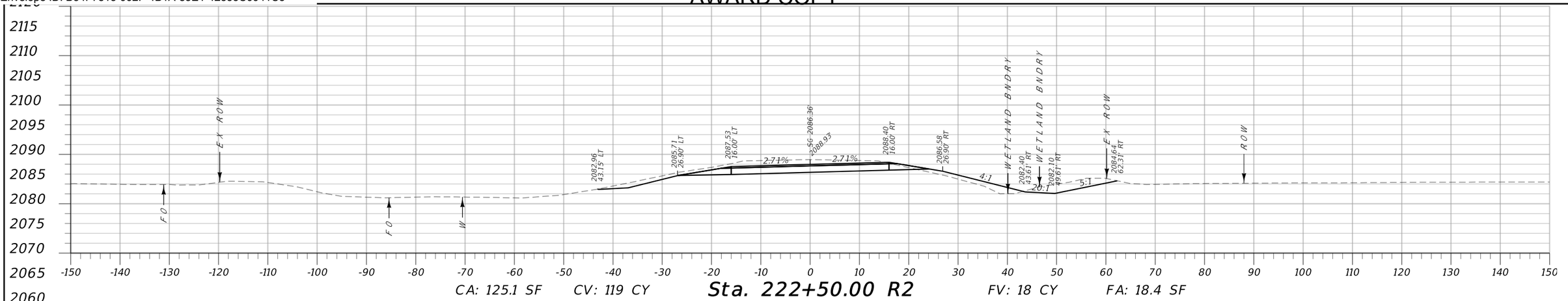
CA: 129.5 SF CV: 117 CY **Sta. 221+50.00 R2** FV: 4031 CY FA: 2.2 SF

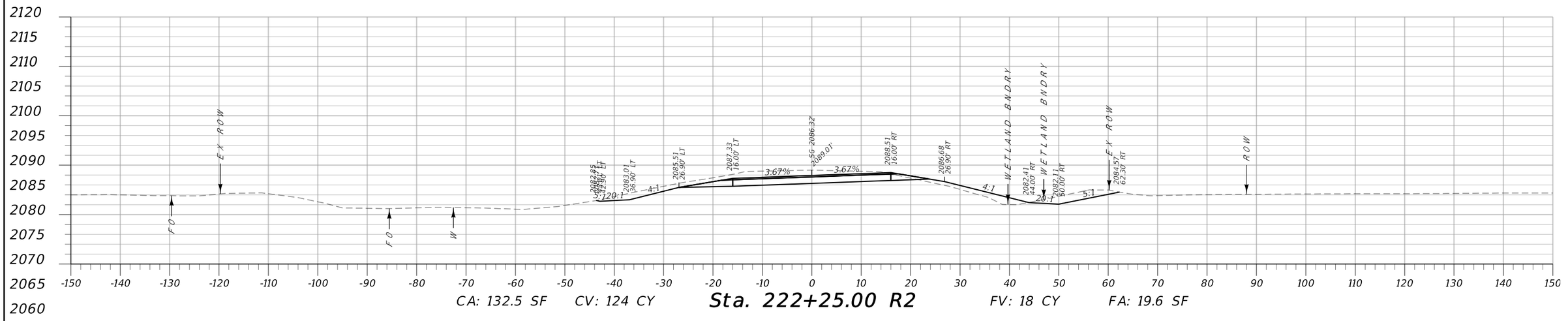


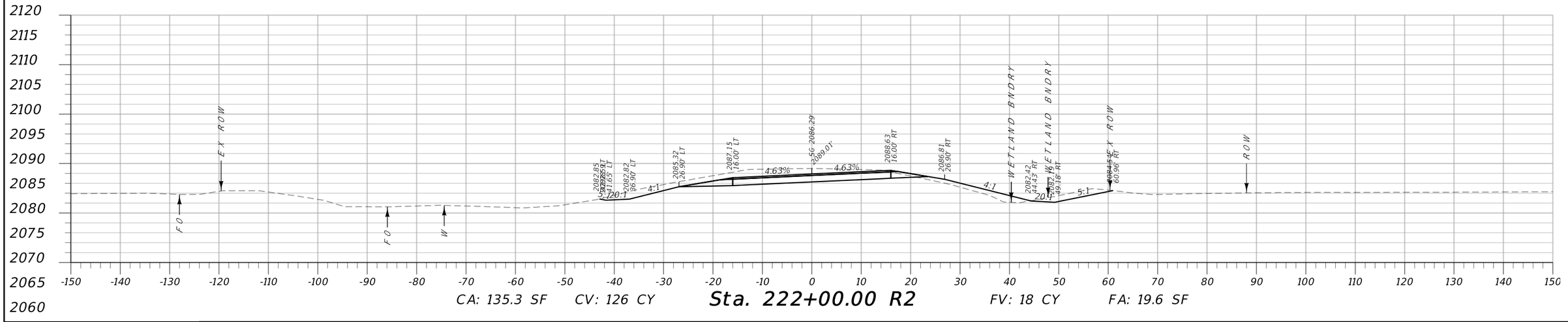
CA: 123.5 SF CV: 108 CY **Sta. 221+25.00 R2** FV: 4034 CY FA: 8704.4 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
	11:15:30 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 28

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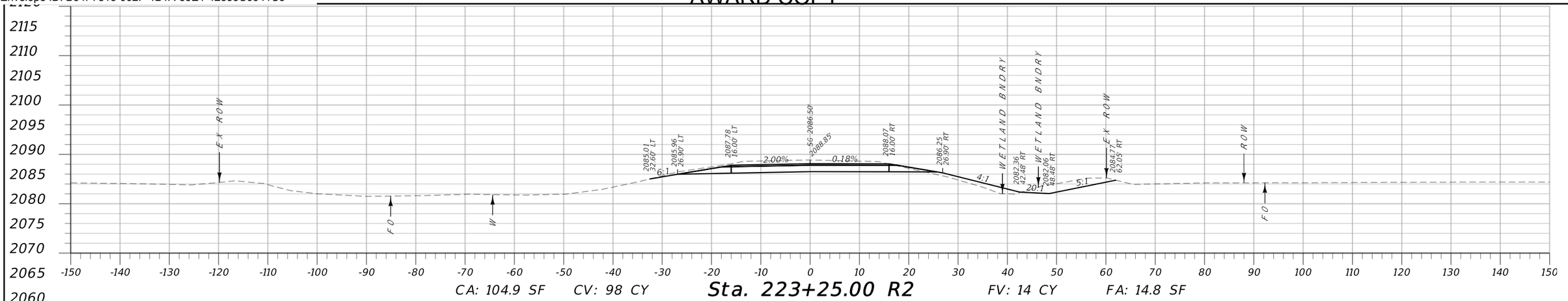




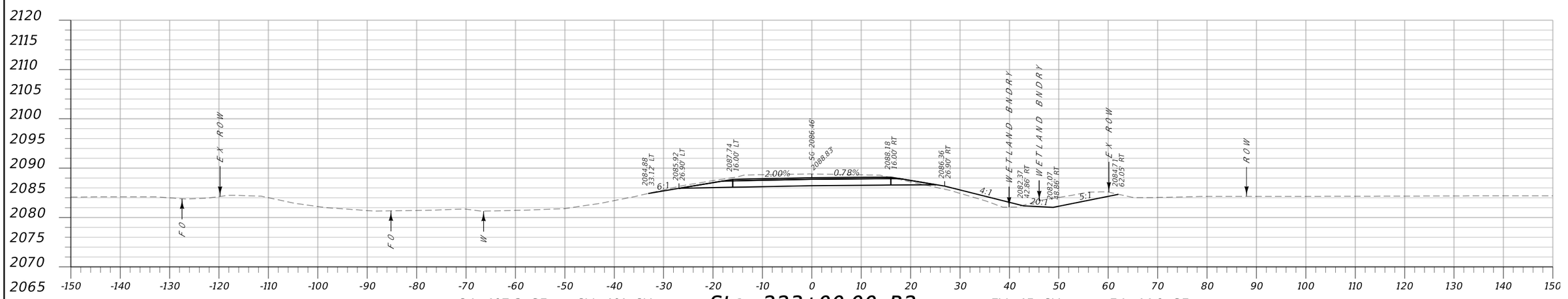
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY	L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV
	5/4/2021	REVIEWED BY			VALLEY COUNTY	UPN 9193000
	11:15:35 AM CPS - U3162	CHECKED BY				SHEET 29

HSIP 42-3(23)72

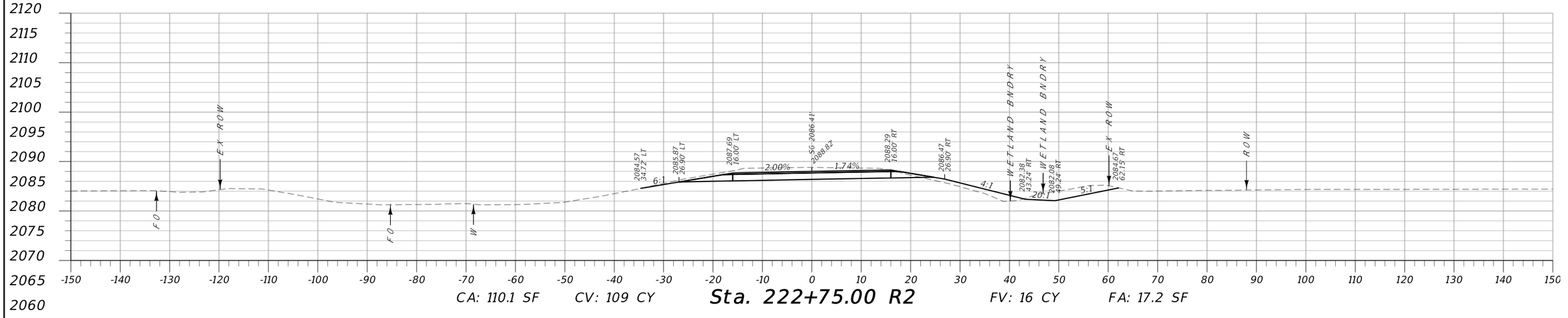
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CA: 104.9 SF CV: 98 CY **Sta. 223+25.00 R2** FV: 14 CY FA: 14.8 SF



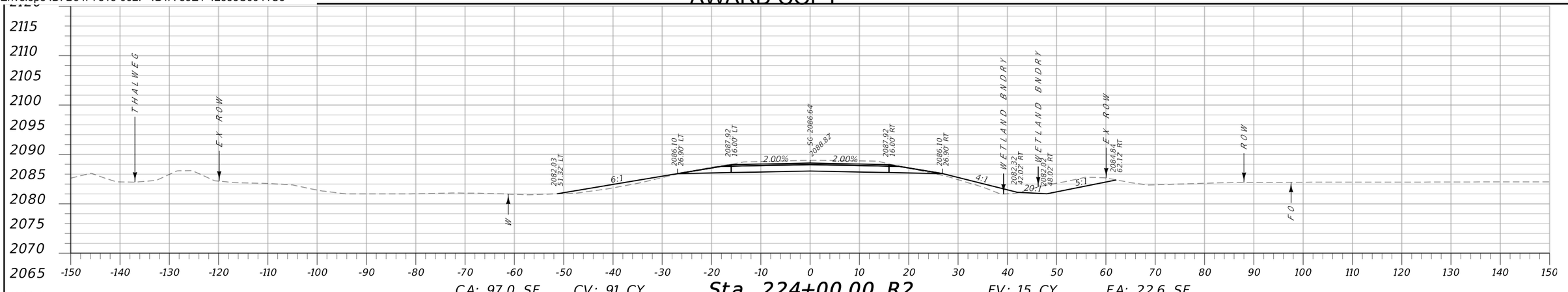
CA: 107.3 SF CV: 101 CY **Sta. 223+00.00 R2** FV: 15 CY FA: 14.9 SF



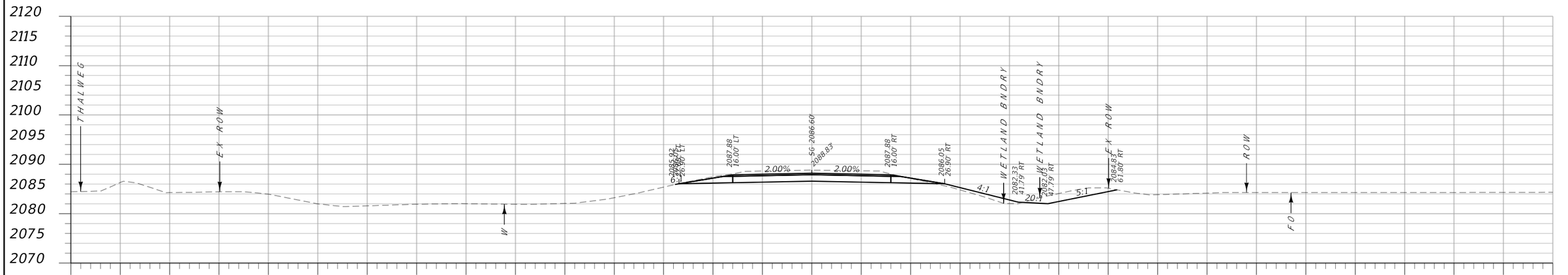
CA: 110.1 SF CV: 109 CY **Sta. 222+75.00 R2** FV: 16 CY FA: 17.2 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV / HSIP 42-3(23)72
	5/4/2021	REVIEWED BY		VALLEY COUNTY	UPN 9193000 / SHEET 30
	11:15:40 AM CPS - U3162	CHECKED BY			

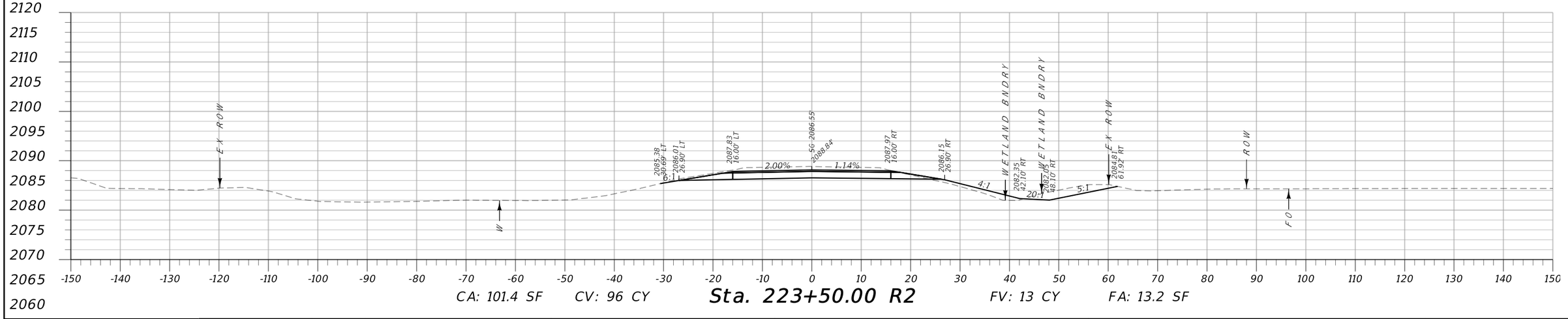
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CA: 97.0 SF CV: 91 CY **Sta. 224+00.00 R2** FV: 15 CY FA: 22.6 SF



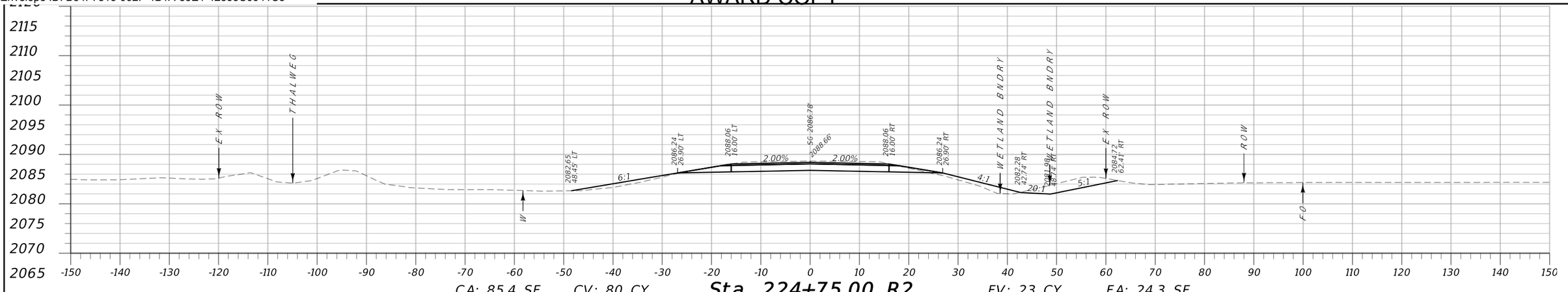
CA: 99.3 SF CV: 93 CY **Sta. 223+75.00 R2** FV: 11 CY FA: 10.6 SF

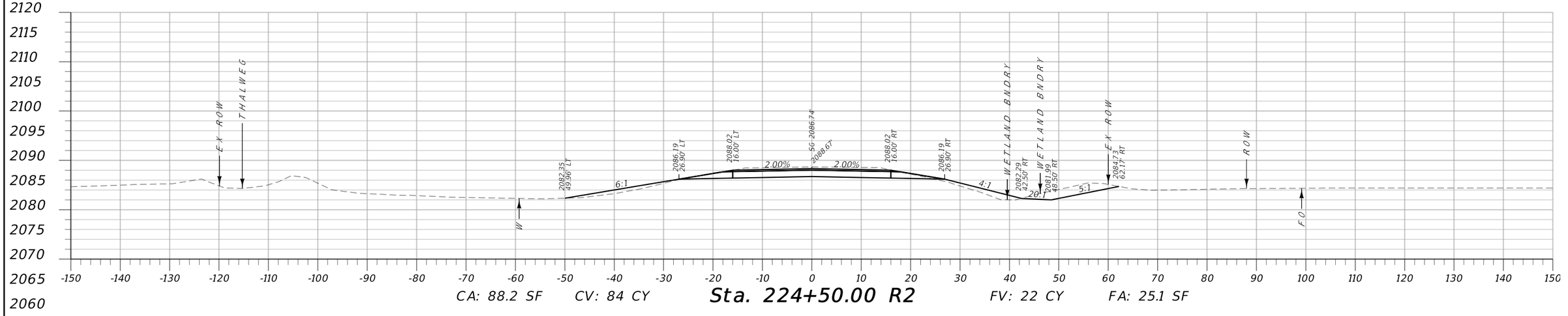


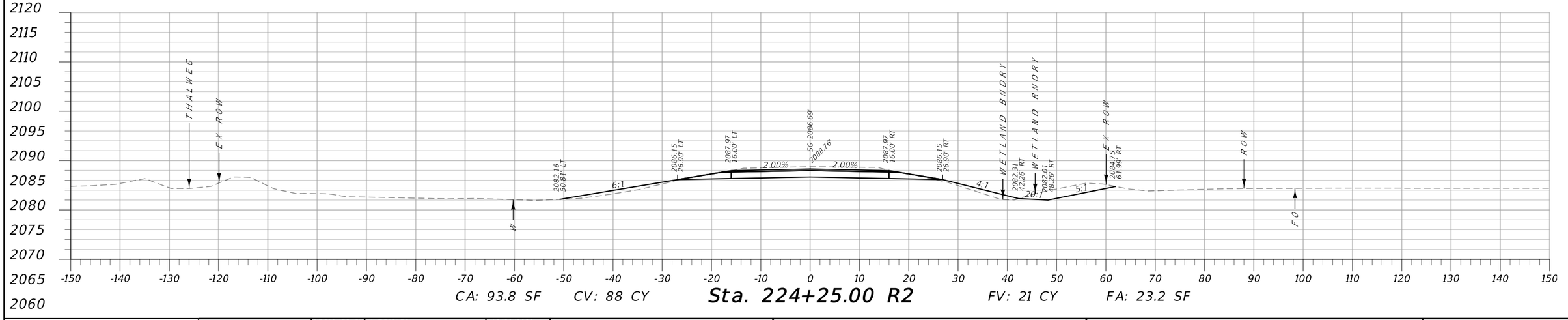
CA: 101.4 SF CV: 96 CY **Sta. 223+50.00 R2** FV: 13 CY FA: 13.2 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
	11:15:45 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 31

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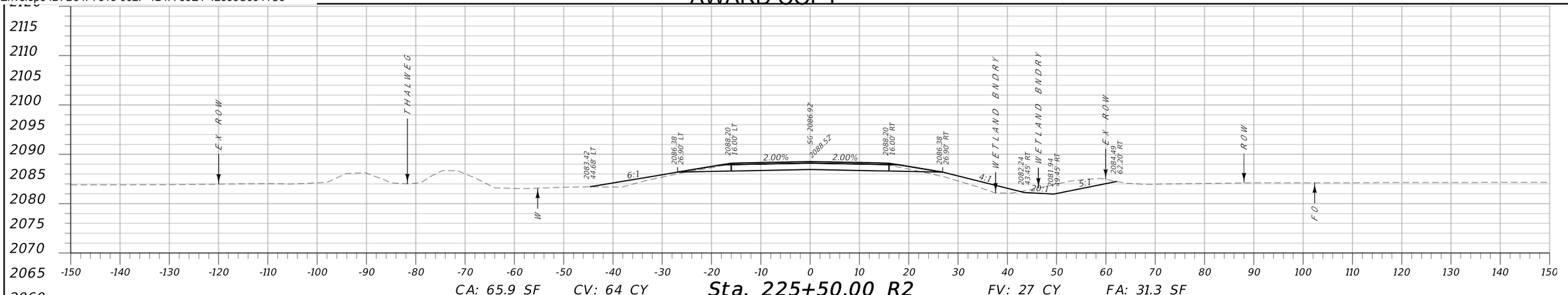




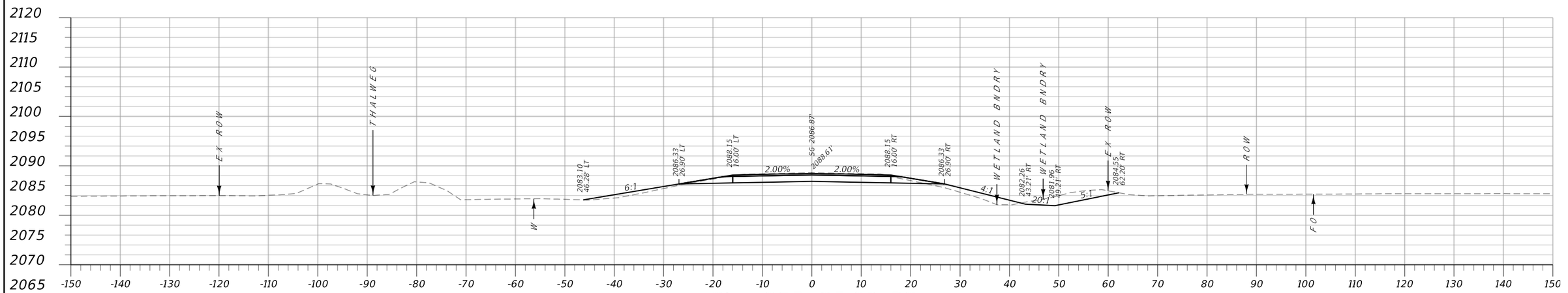
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	5/4/2021	REVIEWED BY				
	11:15:50 AM CPS - U3162	CHECKED BY			VALLEY COUNTY	UPN 9193000 / SHEET 32

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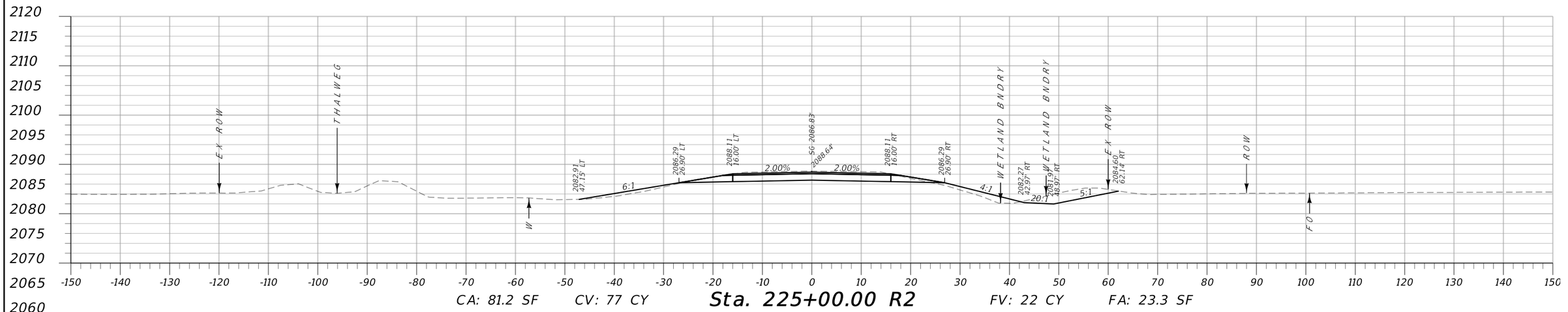
AWARD COPY



CA: 65.9 SF CV: 64 CY **Sta. 225+50.00 R2** FV: 27 CY FA: 31.3 SF



CA: 71.6 SF CV: 71 CY **Sta. 225+25.00 R2** FV: 23 CY FA: 27.2 SF

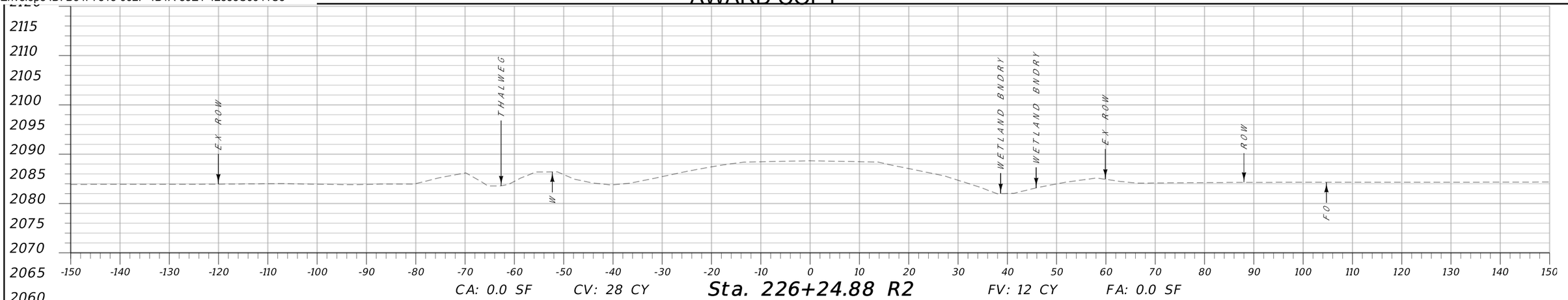


CA: 81.2 SF CV: 77 CY **Sta. 225+00.00 R2** FV: 22 CY FA: 23.3 SF

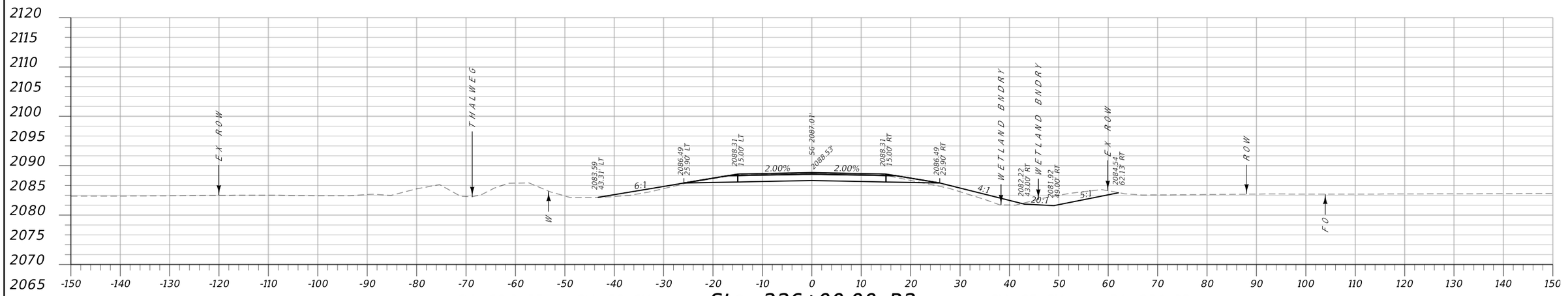
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
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	11:15:55 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 33

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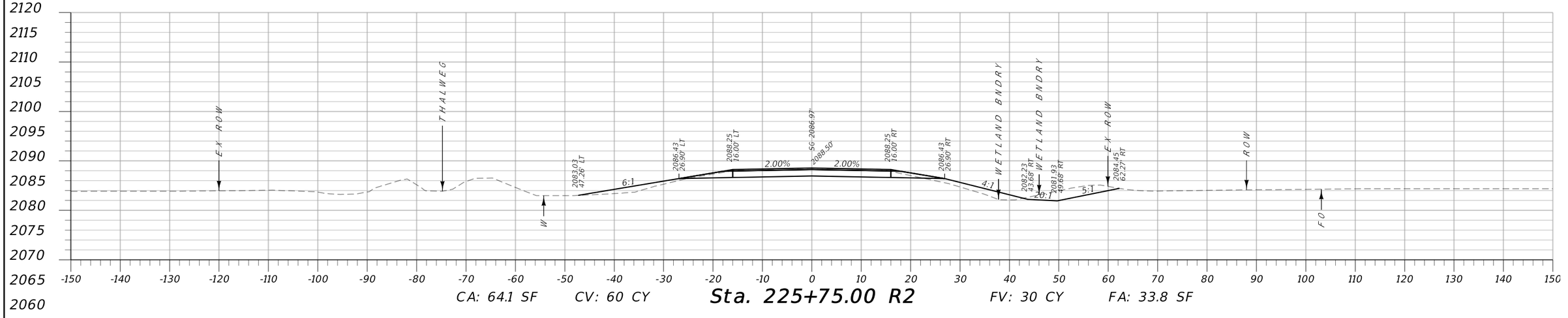
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CA: 0.0 SF CV: 28 CY **Sta. 226+24.88 R2** FV: 12 CY FA: 0.0 SF



CA: 60.2 SF CV: 58 CY **Sta. 226+00.00 R2** FV: 27 CY FA: 25.1 SF



CA: 64.1 SF CV: 60 CY **Sta. 225+75.00 R2** FV: 30 CY FA: 33.8 SF

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9193000rdlay001.dgn	DESIGNED BY L ZEIGLER	12/29/2020	MAINLINE CROSS SECTIONS	SF 169 S OF GLASGOW SFTY IMPRV	HSIP 42-3(23)72
	5/4/2021	REVIEWED BY				
	11:16:00 AM CPS - U3162	CHECKED BY		VALLEY COUNTY	UPN 9193000	SHEET 34