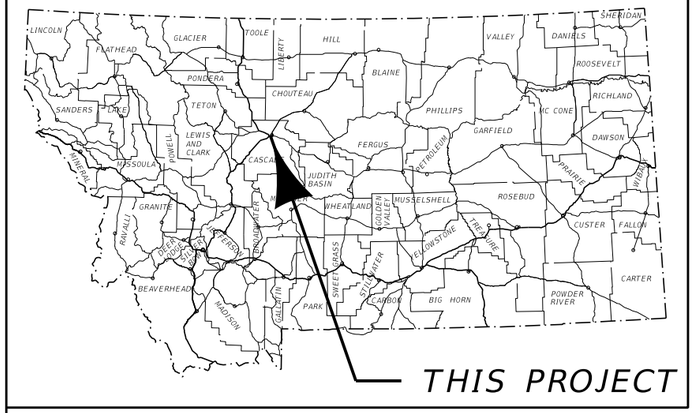
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MONTANA DEPARTMENT OF TRANSPORTATION

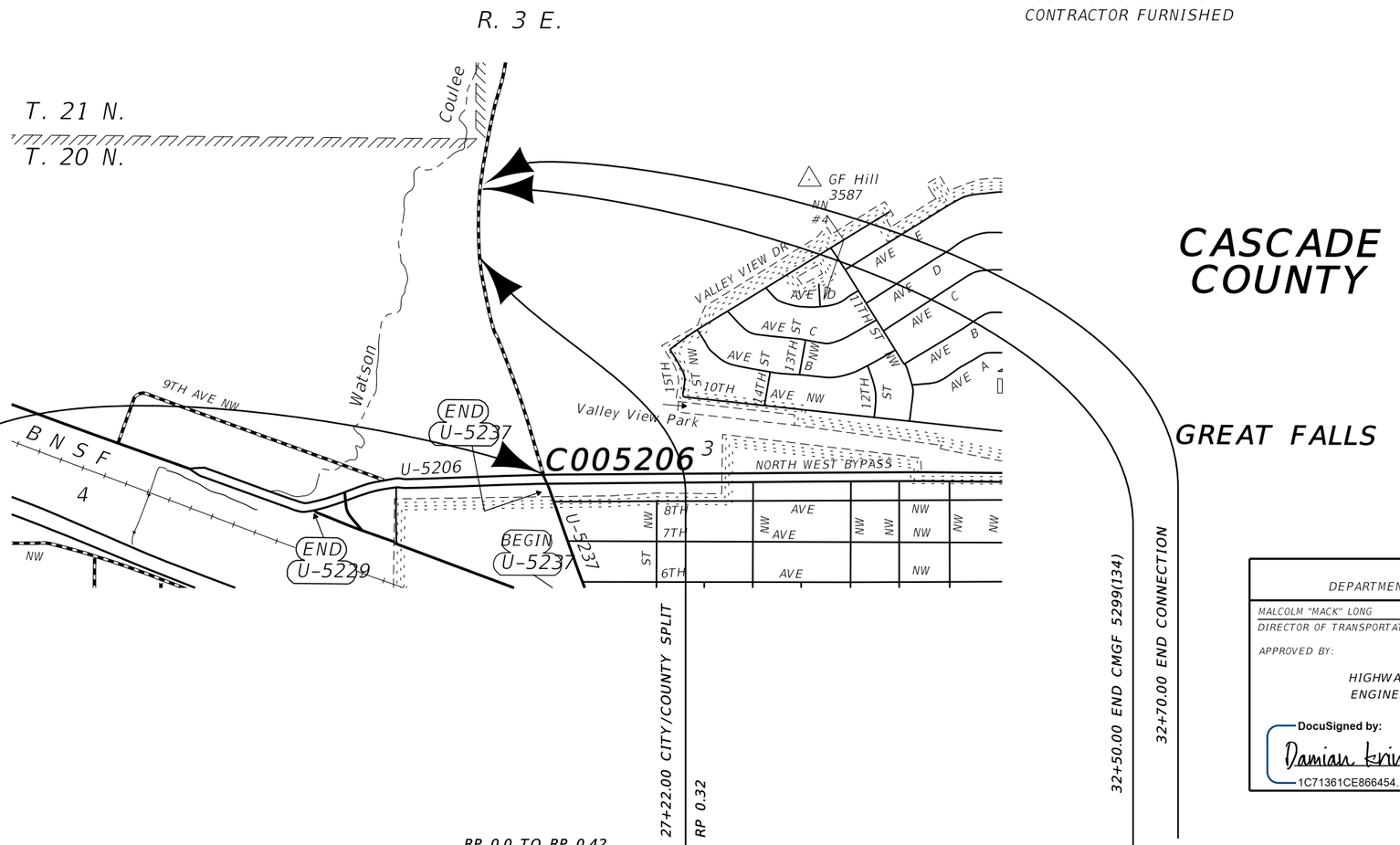
FEDERAL AID PROJECT CMGF 5299(134)
GRADE, GRAVEL, PMBS, AND SEAL & COVER
STUCKEY ROAD-GREAT FALLS
CASCADE COUNTY

PROJECT DESIGN DATA		
PRESENT 2018	A.D.T. =	690
LETTING 2022	A.D.T. =	720
DESIGN 2042	A.D.T. =	870
	D.H.V. =	130
	TRUCKS =	2.5 %
	V. =	30 MPH
	18 KIP ESAL'S =	6 DAILY
	GROWTH RATE =	1.0 % ANNUALLY

LETTING DATE - _____

LENGTH 0.42 MILES

SURFACING SOURCES -
CONTRACTOR FURNISHED



MONTANA
DEPARTMENT OF TRANSPORTATION

MALCOLM "MACK" LONG
DIRECTOR OF TRANSPORTATION

APPROVED BY:

HIGHWAYS
ENGINEER

DocuSigned by:
Damian Krings
1C71361CE866454...

2/28/2022
DATE

MONTANA
DAMIAN
KRINGS
12113PE
LICENSED
PROFESSIONAL ENGINEER

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R / W	CMGF 5299(142)
I.C.	
P. E.	CMGF 5299(133)

3	MONTANA Department of Transportation	C:\DGN\9532000rdtl001.dgn	DESIGNED BY DANIEL ZIESKE	11/21/2018	ROAD PLANS
2		2/17/2022	REVIEWED BY JEANIA CERECK		
		1:50:49 PM CPS - U4948	CHECKED BY J. FLEMING	10/12/2021	UPN 9532000

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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.	= 5.4% OF PL.MIX BIT.SURF.
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 (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

WETLANDS

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

DELINEATED WETLAND AREAS

PERMANENT WETLAND IMPACTED AREAS

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 SERVICES 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.

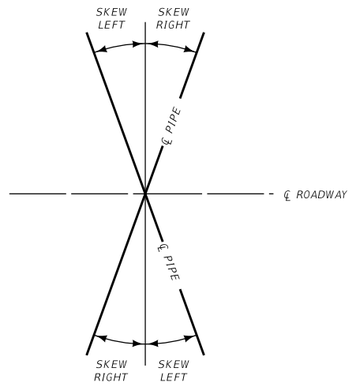
SOILS INFORMATION

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

BORING NUMBER

(GEOTECHNICAL BORING)

SKEW DIAGRAM



WETLAND DELINEATION TABLE

WETLAND DESIGNATION	STATION FROM	STATION TO	WETLAND AREA (ACRES) DELINEATED AREA	WETLAND AREA (ACRES) IMPACTED AREA (PERM.)	REMARKS
WL-01	10+70.58	12+42.06	0.235	0.002	
TOTAL			0.24	0.002	

APPROACHES (FOR INFORMATION ONLY)

STATION	TYPE	linear feet WIDTH	linear feet RADIUS # LEFT	linear feet RADIUS # RIGHT	linear feet LENGTH	EXISTING SURFACING	feet PMS THK.	feet CAC THK.	PROPOSED SURFACE	tons COMMER-CIAL MIX PG 64-28	cu. yards CRUSHED AGG. COURSE	sq. yards AGG. TREAT.	gallons EMULS. ASPHALT TACK	REMARKS
13+14	PRIVATE	50	25	20	93.0	GRAVEL	0.2	0.6	PAVE TO R/W	16	26	124	6	LT.
14+09	PRIVATE	30	100	40	135.6	GRAVEL	0.2	0.6	PAVE TO R/W	27	45	212	11	LT.
16+20	PRIVATE	30	100	40	135.6	GRAVEL	0.2	0.6	PAVE TO R/W	27	47	224	10	LT.
17+02	PRIVATE	26	25	70	109.4	GRAVEL	0.2	0.6	PAVE TO R/W	22	37	175	9	RT.
17+70	PRIVATE	30	100	40	135.6	GRAVEL	0.2	0.6	PAVE TO R/W	26	46	221	10	LT.
20+00	PRIVATE	30	100	40	135.6	GRAVEL	0.2	0.6	PAVE TO R/W	27	44	212	11	LT.
20+37	PRIVATE	110	25	25	160.0	GRAVEL	0.2	0.6	PAVE TO R/W	57	126	608	22	RT.
22+30	PRIVATE	24	25	25	74.0	GRAVEL	0.2	0.6	PAVE TO R/W	16	39	188	6	LT.
22+44	PRIVATE	45	25	25	94.8	NONE	0.2	0.6	PAVE TO R/W	24	40	189	9	RT.
24+28	PRIVATE	31	25	60	108.1	GRAVEL	0.2	0.6	PAVE TO R/W	22	44	209	9	RT.
26+58	PRIVATE	30	100	40	135.6	GRAVEL	0.2	0.6	PAVE TO R/W	28	70	341	11	LT.
26+97	PRIVATE	12	25	25	64.0	GRAVEL	0.2	0.6	PAVE TO R/W	10	19	91	4	RT.
27+93	PRIVATE	14	25	25	65.0	GRAVEL	0.2	0.6	PAVE TO R/W	10	22	107	4	RT.
28+56	PRIVATE	24	25	25	74.0	GRAVEL	0.2	0.6	PAVE TO R/W	16	50	246	6	LT.
29+13	PRIVATE	35	25	25	86.0	GRAVEL	0.2	0.6	PAVE TO R/W	18	43	208	7	RT.
30+72	PRIVATE	16	25	25	66.0	GRAVEL	0.2	0.6	PAVE TO R/W	10	17	81	4	RT.
32+00	PRIVATE	34	200	15	131.6	GRAVEL	0.2	0.6	PAVE TO R/W	26	62	302	10	LT.
32+29	PRIVATE	20	25	25	70.0	GRAVEL	0.2	0.6	PAVE TO R/W	12	29	140	5	RT.
SUBTOTAL	PRIVATE									396	806	3,877	154	

ALL RADII MEASURED TO EDGE OF SHOULDER

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LINEAR AND LEVEL DATA

LENGTH OF ROADWAY IN CASCADE COUNTY	2-LANE URBAN	1,676.39 ft
LENGTH OF ROADWAY IN CASCADE COUNTY	2-LANE RURAL	528.00 ft
TOTAL LENGTH OF CMGF 5299(134)		2,204.39 ft

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE

NAVD 88 ELEVATIONS DERIVED FROM DIFFERENTIAL LEVELS HOLDING NGS PUBLISHED ELEVATION AT T239

CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
10+00.00	POT	1,195,998.462	1,513,294.711	
10+45.61	POT	1,196,041.750	1,513,280.348	BEGIN PROJECT
17+76.00	PI	1,196,734.975	1,513,050.325	ANGLE POINT
23+82.30	PC	1,197,312.464	1,512,865.635	
31+86.00	PI	1,198,077.965	1,512,620.817	
32+50.00	POC	1,198,165.774	1,512,726.869	END PROJECT
39+50.98	PT	1,198,861.086	1,512,801.511	NOT SHOWN ON PLANS
41+47.29	POT	1,199,052.364	1,512,845.646	NOT SHOWN ON PLANS

GPK NAME: J0B532.GPK CHAIN NAME: HA_DSNCL PROFILE NAME: VA_RAISED

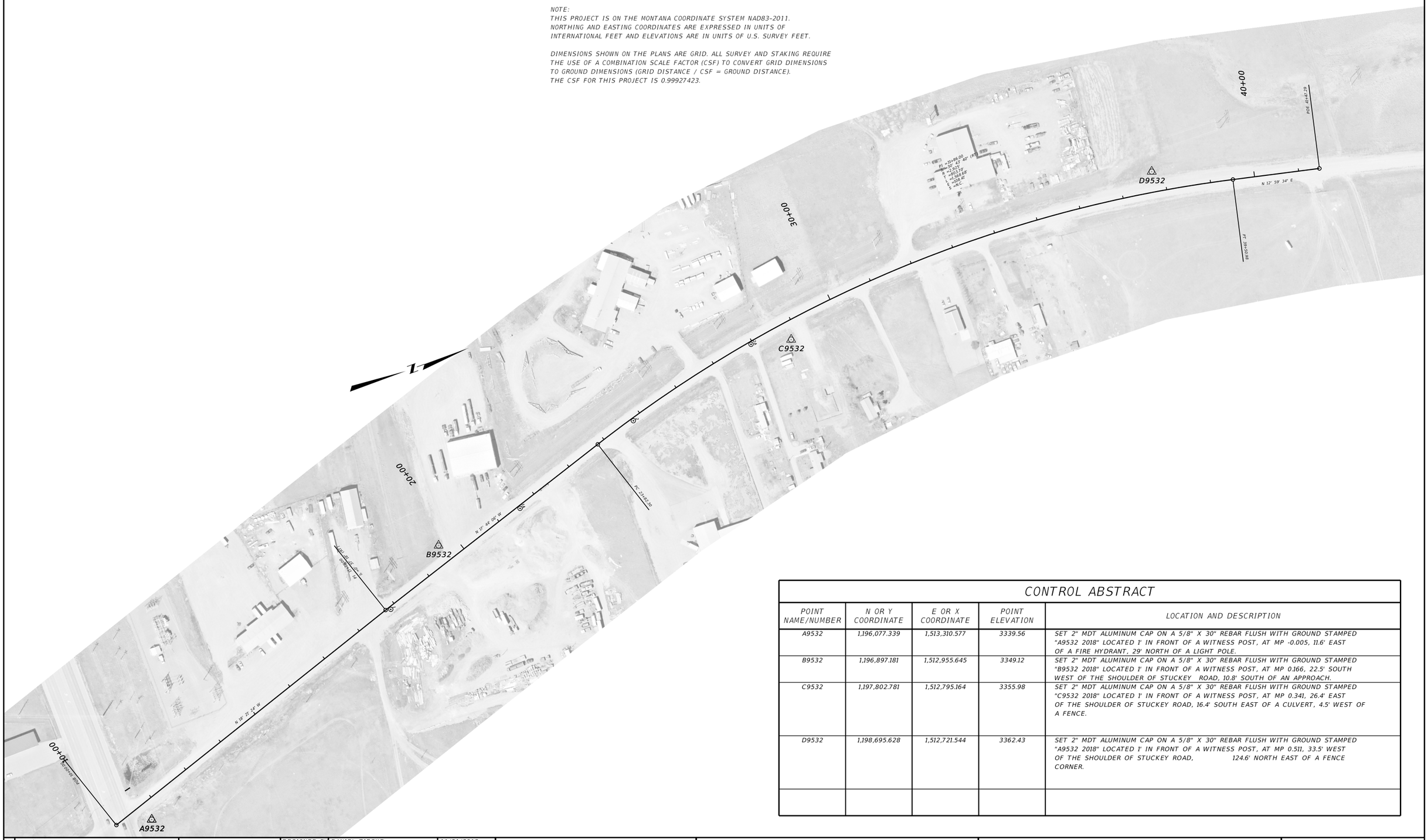
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CONTROL DIAGRAM

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 0.99927423.



CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
A9532	1,196,077.339	1,513,310.577	3339.56	SET 2" MDT ALUMINUM CAP ON A 5/8" X 30" REBAR FLUSH WITH GROUND STAMPED "A9532 2018" LOCATED 1' IN FRONT OF A WITNESS POST, AT MP -0.005, 11.6' EAST OF A FIRE HYDRANT, 29' NORTH OF A LIGHT POLE.
B9532	1,196,897.181	1,512,955.645	3349.12	SET 2" MDT ALUMINUM CAP ON A 5/8" X 30" REBAR FLUSH WITH GROUND STAMPED "B9532 2018" LOCATED 1' IN FRONT OF A WITNESS POST, AT MP 0.166, 22.5' SOUTH WEST OF THE SHOULDER OF STUCKEY ROAD, 10.8' SOUTH OF AN APPROACH.
C9532	1,197,802.781	1,512,795.164	3355.98	SET 2" MDT ALUMINUM CAP ON A 5/8" X 30" REBAR FLUSH WITH GROUND STAMPED "C9532 2018" LOCATED 1' IN FRONT OF A WITNESS POST, AT MP 0.341, 26.4' EAST OF THE SHOULDER OF STUCKEY ROAD, 16.4' SOUTH EAST OF A CULVERT, 4.5' WEST OF A FENCE.
D9532	1,198,695.628	1,512,721.544	3362.43	SET 2" MDT ALUMINUM CAP ON A 5/8" X 30" REBAR FLUSH WITH GROUND STAMPED "A9532 2018" LOCATED 1' IN FRONT OF A WITNESS POST, AT MP 0.511, 33.5' WEST OF THE SHOULDER OF STUCKEY ROAD, 124.6' NORTH EAST OF A FENCE CORNER.

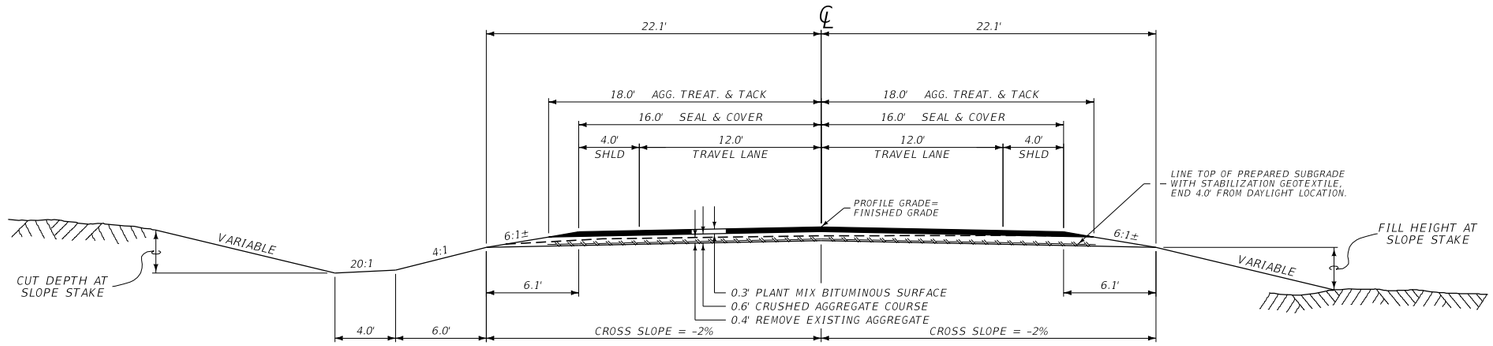
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TYPICAL SECTION NO. 1

MAINLINE

11+07.85 TO 32+50.00
32+50.00 TO 32+70.00 CONNECTION TO PTW



QUANTITIES										
UNIT	AGGREGATE						UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX	CR. AGG. COURSE					ASPHALT CEMENT	SEAL	AGG. TREATMENT	EMULSIFIED ASPHALT TACK *
AREA square feet		10.20	24.06				square yards PER STATION		356	400	800
cubic yards PER STATION		37.8	89.1				tons PER STATION	3.94	0.64		
tons PER STATION		72.9					gallons PER STATION				40
square yards PER STATION	356										

*BASED ON 2 APPLICATIONS

* FILL SLOPES	
0' - 10'	4:1
10' - 20'	3:1
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

2	MONTANA Department of Transportation	C:\DGN\9532000rdtyp001.dgn	DESIGNED BY	DANIEL ZIESKE	11/21/2018	ROAD PLANS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
		2/17/2022	REVIEWED BY	JEANIA CERECK				
1		1:51:45 PM CPS - U4948	CHECKED BY	J. FLEMING	10/12/2021	CASCADE COUNTY	UPN 9532000	05

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons	AGGREGATE square yards COVER TYPE 2	AGGREGATE tons COMMERCIAL MIX PG 64-28	AGGREGATE cubic yards CRUSHED AGG. COURSE	AGGREGATE cubic yards TRAFFIC GRAVEL	BITUMINOUS MATERIAL tons SEAL CRS-2P	BITUMINOUS MATERIAL gallons EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL square yards AGG. TREAT.	REMARKS
11+07.85	32+50.00	2,142.15	2,142.15					7,626	1,562	1,909		13.7	857	8,569	TYPICAL SECTION NO. 1
						ADDITIONAL SURFACING		415	477	893	183	0.7	196	4,301	
TOTAL		2,142.15	2,142.15	0.00	0.00		~	8,041	2,039	2,802	183	14.4	1,053	12,870	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons	AGGREGATE square yards COVER TYPE 2	AGGREGATE tons COMMERCIAL MIX PG 64-28	AGGREGATE cubic yards CRUSHED AGG. COURSE	AGGREGATE cubic yards TRAFFIC GRAVEL	BITUMINOUS MATERIAL tons SEAL CRS-2P	BITUMINOUS MATERIAL gallons EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL square yards AGG. TREAT.	REMARKS
10+45.61	11+07.85					INTERSECTION AREA		344	66	69		0.6	34	344	MEASURED ON CADD
13+50.00	17+50.00					GRAVEL FILL					134				DITCH LEFT
20+25.00	21+50.00					GRAVEL FILL					49				DITCH LEFT
						9 PRIVATE APPROACHES			174	385			68	1,857	
						9 PRIVATE APPROACHES W/ TRUCK RADII			222	421			87	2,020	
32+50.00	32+70.00					CONNECTION		71	15	18		0.1	8	80	
SUBTOTAL		~	~	~	~		~	415	477	893	183	0.7	196	4,301	

TOPSOIL & SEEDING

STATION FROM	STATION TO	cubic yards TOPSOIL SALVAGING & PLACING	acres SEED NO. 1	acres SEED NO.3	acres FERTILIZER NO. 1	acres CONDITION SEEDBED	REMARKS
10+45.61	32+50.00	990	1.7	1.5	1.7	3.2	LT. & RT. SIDE
TOTAL		990	1.7	1.5	1.7	3.2	

GEOTEXTILE

STATION FROM	STATION TO	square yards GEOTEXTILE STABILIZATION	REMARKS
10+45.61	11+07.85	344	INTERSECTION AREA. SEE DETAIL
11+07.85	32+70.00	8,697	36.2' WIDE
TOTAL		9,041	

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SUMMARY

GRADING

STATION		cu. yards		REMARKS
FROM	TO	EXC.	EMB. IN PLACE	
10+45.61	32+75.00	2,010	322	
			990	TOPSOIL REPLACEMENT
		500	465	ADDITIONAL GRADING
TOTAL		# 2,510	1,777	

FOR INFORMATION ONLY

MAILBOXES

STATION	each	REMARKS
	MAILBOXES	
21+47	2	LEFT
24+44	1	LEFT
26+33	2	LEFT
29+60	1	LEFT
30+63	1	LEFT
32+32	2	LEFT
TOTAL	9	

CURB

STATION		linear feet				REMARKS
		CONCRETE CURB AND GUTTER		# REMOVE CURB AND GUTTER		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	
10+27.79	11+07.85		90		54	
10+64.28	10+99.52	66		54		
SUBTOTAL		66	90	54	54	
TOTAL		156		~		

FOR INFORMATION ONLY - INCLUDE IN THE COST OF CURB AND GUTTER

ADDITIONAL GRADING

STATION		cu. yards INCL. IN GRADING FRAME		REMARKS
FROM	TO	EXC.	EMB. IN PLACE	
13+14.00		50	5	PRIVATE APP. LT. W/ TRUCK TURNING RADII
14+09.00		35	5	PRIVATE APP. LT. W/ TRUCK TURNING RADII
16+20.00		15	5	PRIVATE APP. LT. W/ TRUCK TURNING RADII
17+02.00		40	25	PRIVATE APP. RT. W/ TRUCK TURNING RADII
17+70.00		10	5	PRIVATE APP. LT W/ TRUCK TURNING RADII
20+00.00		50	5	PRIVATE APP. LT. W/ TRUCK TURNING RADII
20+37.00		160	125	PRIVATE APP. RT.
22+30.00		5	35	PRIVATE APP. LT.
22+44.00		0	105	PRIVATE APP. RT.
24+28.00		15	20	PRIVATE APP. RT. W/ TRUCK TURNING RADII
26+58.00		45	5	PRIVATE APP. LT. W/ TRUCK TURNING RADII
26+97.00		0	15	PRIVATE APP. RT.
27+93.00		5	15	PRIVATE APP. RT.
28+56.00		20	15	PRIVATE APP. LT.
29+13.00		5	40	PRIVATE APP. RT.
30+72.00		10	5	PRIVATE APP. RT.
32+00.00		30	5	PRIVATE APP. LT. W/ TRUCK TURNING RADII
32+29.00		5	30	PRIVATE APP. RT.
SUBTOTAL		500	465	

PERMANENT EROSION CONTROL *

STATION		sq. yards EROSION CONTROL BLANKET LONG-TERM	REMARKS
FROM	TO		
10+49.20	16+60.51	1,019	DITCH RT. 15' WIDE
17+34.41	19+64.08	383	DITCH RT. 15' WIDE
21+08.24	21+98.21	150	DITCH RT. 15' WIDE
22+83.04	23+90.98	180	DITCH RT. 15' WIDE
24+60.78	26+69.19	347	DITCH RT. 15' WIDE
27+19.77	27+68.97	82	DITCH RT. 15' WIDE
28+17.19	28+75.29	97	DITCH RT. 15' WIDE
29+47.70	30+45.55	163	DITCH RT. 15' WIDE
30+97.98	32+02.05	173	DITCH RT. 15' WIDE
TOTAL		2,594	

* SEE DETAIL

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	15		15
STRIPING - YELLOW PAINT	gallon	15		15
WORDS & SYMBOLS - WHITE PAINT	gallon	1		1
STRIPING - WHITE EPOXY	gallon		21	21
STRIPING - YELLOW EPOXY	gallon		21	21
YELLOW CURB EPOXY	gallon		3	3
WORDS & SYMBOLS - WHITE EPOXY	gallon		1	1
TEMPORARY STRIPING	ln foot			4,448.8
FINAL SWEEP AND BROOM	course mile			0.4

BASED ON 1 APPLICATION.

WATER VALVE BOXES

STATION	each ADJUST WATER VALVE BOX		REMARKS
	LEFT	RIGHT	
24+05.9		1	41.1 ft RIGHT
24+09.4		1	44.3 ft RIGHT W/ METER
26+65.6		1	36.1 ft RIGHT
26+72.3		1	35.1 ft RIGHT
SUBTOTAL	0	4	
TOTAL	4		

FUNDING - 0% STATE, 100% CITY OF GREAT FALLS

MANHOLES IN PLACE

STATION	each ADJUST MANHOLE		REMARKS
	LEFT	RIGHT	
10+93.7	1		12' LEFT SANITARY
11+16.6		1	18' RIGHT SANITARY
12+87.9		1	16' RIGHT SANITARY
16+73.1		1	20' RIGHT SANITARY
20+73.2		1	21' RIGHT SANITARY
24+73.7		1	20' RIGHT SANITARY
26+66.9		1	20' RIGHT SANITARY
SUBTOTAL	1	6	
TOTAL	7		

FUNDING - 0% STATE, 100% CITY OF GREAT FALLS

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SUMMARY

STORM DRAIN STRUCTURE SCHEDULE

NAME	STATION	each					vertical feet	REMARKS
		REMOVE DROP INLET	STORM DRAIN STRUCTURE ROUND	TOP IRON		CONCRETE APRON	ADDITIONAL BARREL	
			60"		TYPE 1 Φ		60"	
DI-1	10+62.61		1		1	1	1	LT.
	10+63	1						47.9' LT.
TOTAL		1	1		1	1	1	

Φ DROP INLET FRAME & GRATE

STORM DRAIN PIPE

PIPE SECTION		linear feet							cu. yards	each	REMARKS
		ALLOWABLE PIPE MATERIALS				STORM DRAIN PIPE #		REMOVE STORM DRAIN	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	TRASH GUARD	
FROM	TO	RCP IRR Δ	PW PVC	SW PVC	PSM PVC	24"	36"			24"	
10+54.69	10+62.61	X					8.0		5.4		STORM DRAIN TRUNKLINE LT., CONNECT TO EX. 36" RCP Ω
10+62.61	10+76.55	X				14.0				1	STROM DRAIN INLET PIPE LT., FETS LT. θ
10+55	10+63							8.5			LT., 36" X 8.5' RCP STM.
10+63	10+72							8.1			LT., 24" X 8.1' RCP STM.
TOTAL		~	~	~	~	14.0	8.0	16.6	~	1	

GRANULAR BEDDING MATERIAL INCIDENTAL TO STORM DRAIN PIPE, SEE DETAILED DRAWINGS FOR BEDDING QUANTITITES AND DETAILS.
Δ CLASS 3 RCP IRR. FOR 24" PIPE. CLASS 2 RCP IRR. FOR 36" PIPE.
θ FETS INCLUDED IN COST OF PIPE.
Ω INCL. CONC. CONNECTON & CONTROLLED LOW STRENGTH MATERIAL (CLSM) IN COST OF PIPE.

APPROACH PIPE (INCLUDED IN CULVERT SUMMARY RECAP)

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				STEEL - 2 2/3 x 1/2 CORR. 0.064 THK.	CONCRETE - CLASS 4	ALUMINUM - 2 2/3 x 1/2 CORR. 0.060 THK.	CORRU-GATED POLY-ETHYLENE PIPE	LEFT	RIGHT	HEIGHT OF COVER			
		LENGTH OF PIPE	REMOVE PIPE CULVERT	RELAY PIPE CULVERT	CLEAN CULVERT PIPE										
17+02	28 1/2 X 18	64	28.0			~	28 1/2 X 18	~	~	FETS	FETS	0.7		24 x 28 RCP	RT.
20+37	24	12	96.0			~	24	~	~	FETS	FETS	1.0		24 X 220 RCP	RT.
22+44	28 1/2 X 18	76				~	28 1/2 X 18	~	~	FETS	FETS	1.0			RT.
24+28	28 1/2 X 18	64	48.0			~	28 1/2 X 18	~	~	FETS	FETS	0.5		24 X 48 RCP	RT.
26+58	18	68	49.0			18	18	~	~	FETS	FETS	1.2		15 X 49 CSP	LT.
26+97	28 1/2 X 18	42	19.0			~	28 1/2 X 18	~	~	FETS	FETS	0.5		12 X 19 CSP	RT.
27+93	28 1/2 X 18	56	24.0			~	28 1/2 X 18	~	~	FETS	FETS	0.7		24 X 24 CSP	RT.
29+13	28 1/2 X 18	64	45.0			~	28 1/2 X 18	~	~	FETS	FETS	0.5		24 X 45 CSP	RT.
30+72	28 1/2 X 18	42	32.0			~	28 1/2 X 18	~	~	FETS	FETS	0.5		24 X 32 CSP	RT.
32+29	28 1/2 X 18	48	32.0			~	28 1/2 X 18	~	~	FETS	FETS	0.5		24 X 32 CSP	RT.
TOTAL	~	~	373.0	0	0	~	~	~	~	~	~	~	~	~	

CULVERT SUMMARY RECAP

BASIC BID	linear feet		
	NEW PIPE (TOTAL)	REMOVE PIPE CULVERT	
DRAINAGE PIPE 18"	68		
RCP 24"	12		
RCPA 24" EQ DIA	456		
TOTAL	~	373.0	

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10+00

POB 10+00.00

NORTHWEST BYPASS

X=1513214.88
Y=1196041.70

X=1513214.49
Y=1196076.70

35' R

X=1513247.71
Y=1196087.72

X=1513157.65
Y=1196248.45

X=1513167.39
Y=1196251.68

X=1513175.27
Y=1196227.95

X=1513198.99
Y=1196235.82

25' R

X=1513080.74
Y=1196271.56

X=1513145.71
Y=1196318.24

100' R

20' R

X=1513129.70
Y=1196341.05

X=1513123.05
Y=1196354.66

15' R

15+00

CON-WAY BUILDING

X=1513056.85
Y=1196557.02

X=1513014.93
Y=1196473.30

X=1513113.27
Y=1196384.66

X=1513095.69
Y=1196420.59

40' R

X=1513133.66
Y=1196433.19

X=1513109.72
Y=1196505.17

100' R

15' R

X=1513024.42
Y=1196698.72

X=1513062.30
Y=1196648.07

X=1512967.39
Y=1196616.58

X=1513067.03
Y=1196633.84

X=1513028.97
Y=1196621.50

X=1513047.38
Y=1196585.99

40' R

100' R

15' R

4'
12'
4'
12'
4'

N 18° 21' 24" W
STUCKEY ROAD

10+45.61
BEG. STUCKEY ROAD

30' R

200' R

X=1513277.16
Y=1196106.46

X=1513142.12
Y=1196295.97

X=1513152.01
Y=1196299.26

X=1513161.96
Y=1196329.91

X=1513138.34
Y=1196353.31

X=1513125.07
Y=1196355.32

X=1513063.14
Y=1196543.31

X=1513071.64
Y=1196555.67

X=1513058.36
Y=1196557.53

X=1513111.29
Y=1196602.06

X=1513177.72
Y=1196624.10

70' R

10' R

25' R

X=1513117.51
Y=1196692.95

X=1513108.34
Y=1196689.96

X=1513100.58
Y=1196713.72

X=1513076.85
Y=1196705.85

X=1513128.74
Y=1196658.75

X=1513125.63
Y=1196668.25

X=1513120.58
Y=1196664.52

X=1513334.46
Y=1196042.95

X=1513334.02
Y=1196072.94

X=1513311.73
Y=1196052.87

X=1513460.36
Y=1196186.69

GEOMETRIC DETAIL

SHEET 1 OF 3

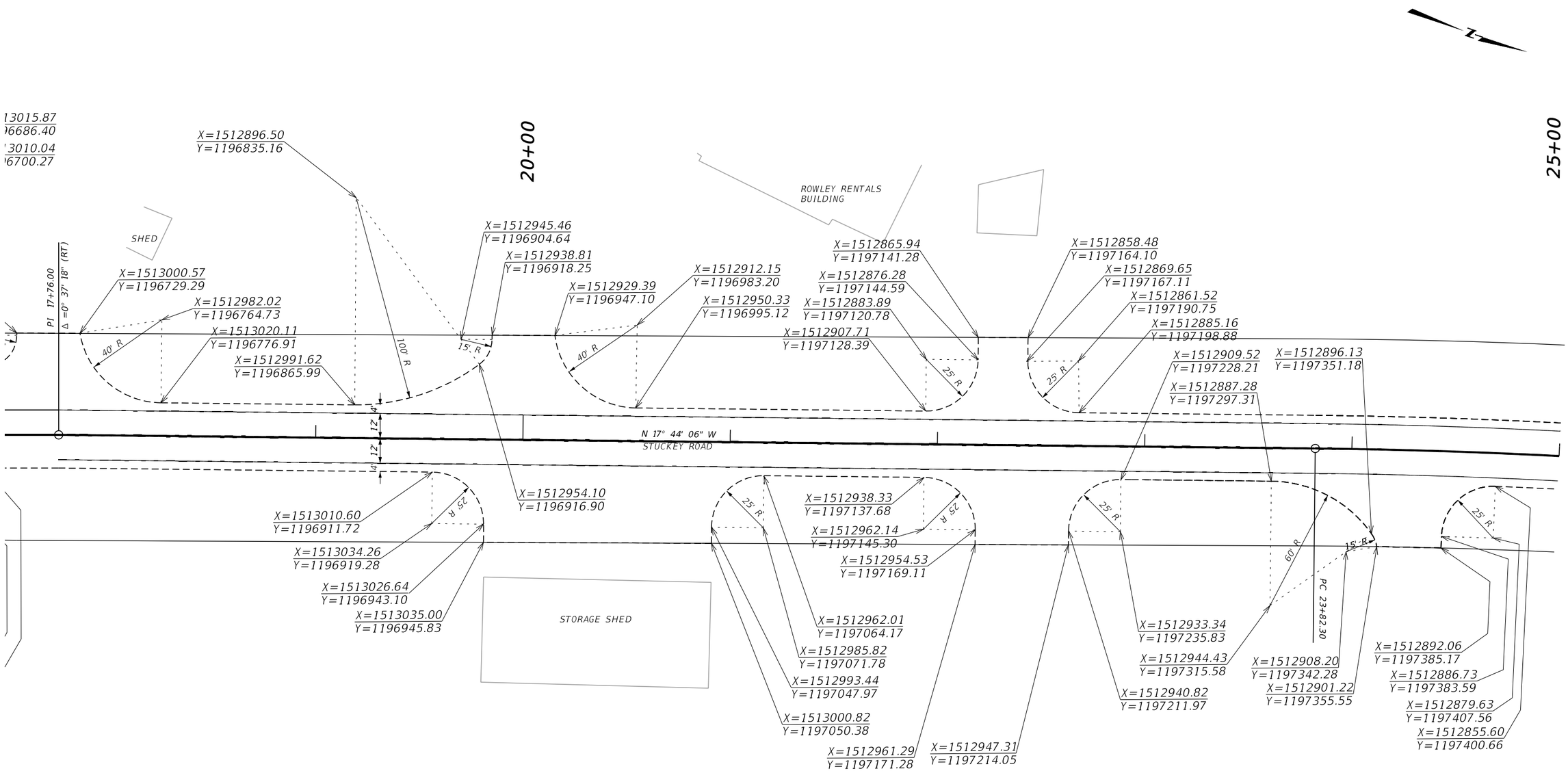
STUCKEY ROAD

SCALE 1" = 50'

3	MONTANA Department of Transportation	C:\DGN\9532000rddet001.dgn	DESIGNED BY	DANIEL BIRLUT		ROAD PLANS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
2		2/17/2022	REVIEWED BY					
		1:52:38 PM CPS - U4948	CHECKED BY			CASCADE COUNTY	UPN 9532000	09

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GEOMETRIC DETAIL

SHEET 2 OF 3

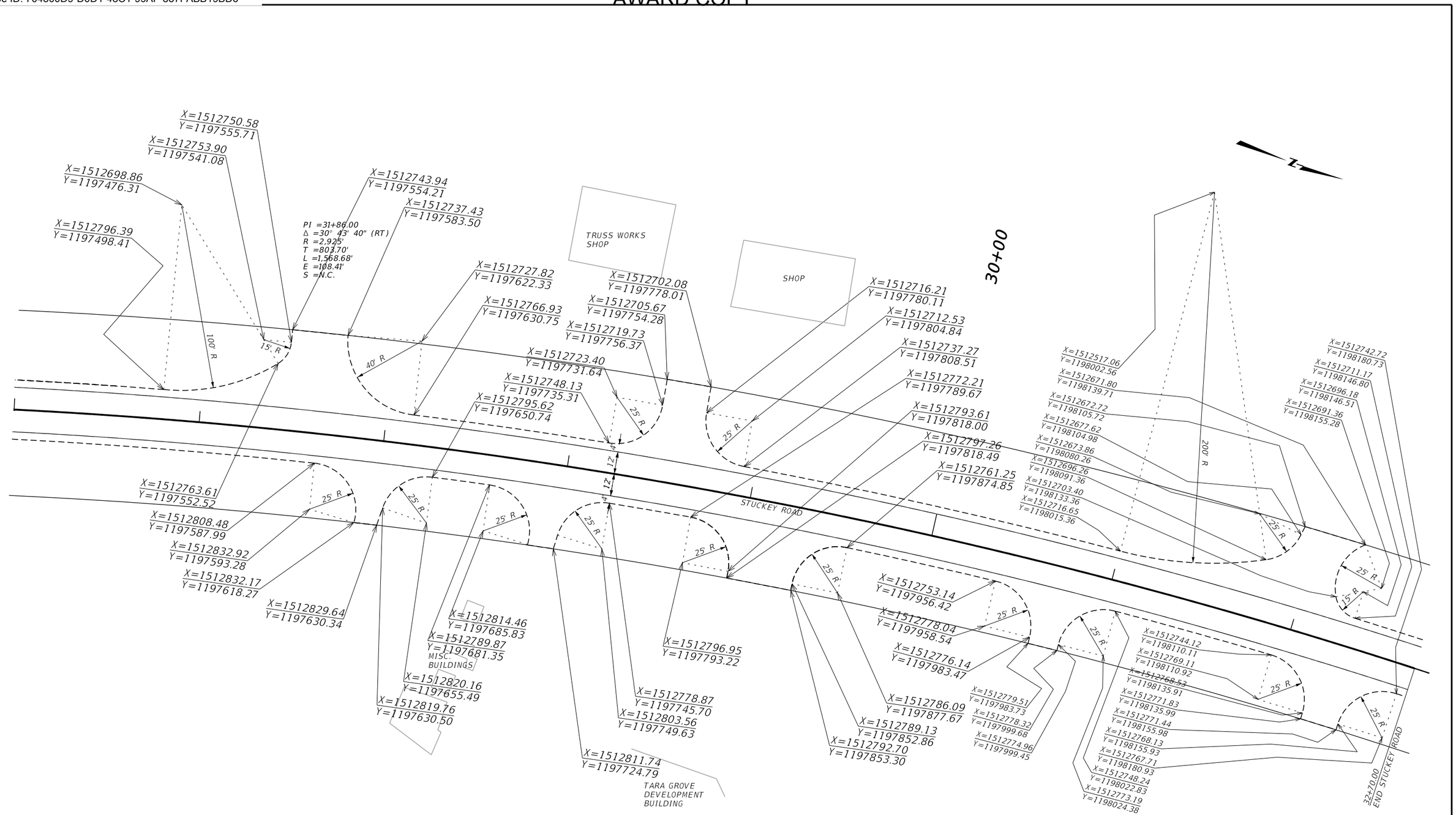
STUCKEY ROAD

SCALE 1" = 50'

3 / 1	MONTANA Department of Transportation	C:\DGN\9532000rddet001.dgn	DESIGNED BY DANIEL BIRLUT		ROAD PLANS		STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
		2/17/2022	REVIEWED BY		CASCADE COUNTY		UPN 9532000	10
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GEOMETRIC DETAIL

SHEET 3 OF 3

STUCKEY ROAD

SCALE 1" = 50'

2 1	MONTANA Department of Transportation	C:\DGN\9532000rddet001.dgn 2/17/2022 1:52:50 PM CPS - U4948	DESIGNED BY DANIEL BIRLUT REVIEWED BY CHECKED BY		ROAD PLANS CASCADE COUNTY		STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
							UPN 9532000	11

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DETAIL

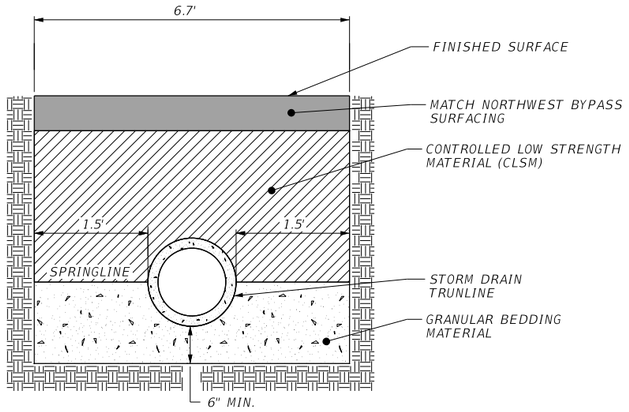
INLET / MANHOLE COORDINATE TABLE *

INLET / MANHOLE NUMBER	INLET / MANHOLE STATION	N OR Y COORDINATE	E OR X COORDINATE	GRATE/RIM ELEVATION
DI-1	10+62.61 CNTR.	1,196,042.815	1,513,229.567	3,338.74

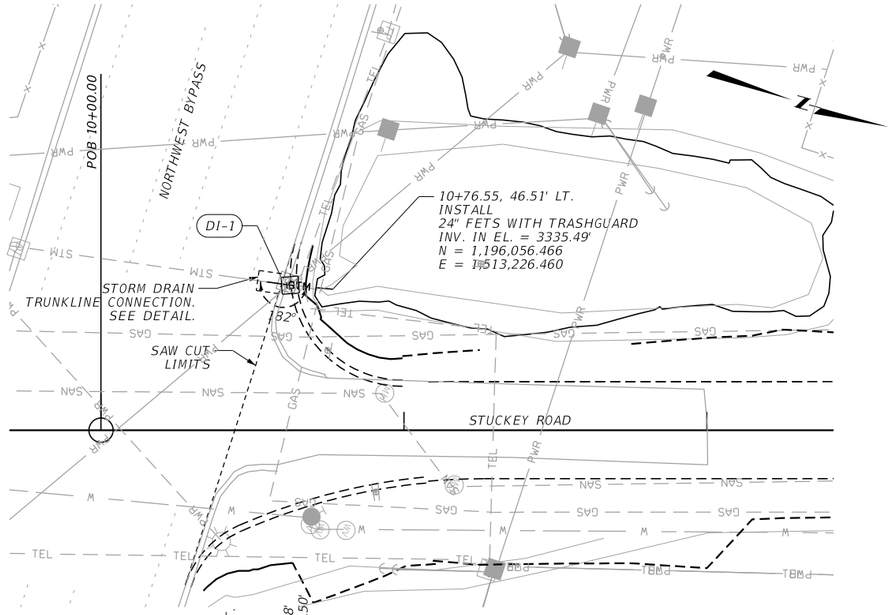
* STATION, OFFSET & COORDINATES TO CENTER OF BARREL
(NOT TO CENTER OF RIM / GRATE)

STORM DRAIN LENGTHS

INLET / MANHOLE STATION / NUMBER		INSIDE EDGE TO EDGE LENGTH (ft)	CENTER TO CENTER LENGTH (ft)
FROM	TO		
10+76.55 INLET	10+62.61 LT/DI-1	11.5	14.0
10+62.61 LT/DI-1	CONNECT TO EX. 36" RCP	5.5	8.0



STORM DRAIN TRUNKLINE CONNECTION
NOT TO SCALE



10+55 TO 10+63
EX. 36" RCP STM LT.
REMOVE 8.5 RT.

INSTALL
DI-1, 10+62.61, 47.86' LT.
COMB. 60 IN T3 MH - T1
DROP INLET W/APRON
GRATE EL. = 3,338.74'
24" INV. IN EL. = 3335.38'
36" INV. OUT EL. = 3333.50'
S= MATCH EX.

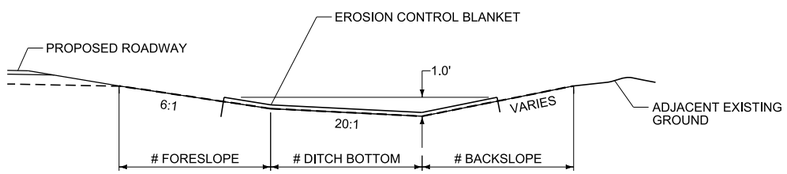
10+63, 47.9' LT.
DROP INLET IN PL. LT.
REMOVE

10+63 TO 10+72
EX. 24" RCP STM LT.
REMOVE

NOTE:

1. PIPE LENGTHS SHOWN ARE INSIDE EDGE-TO-EDGE BETWEEN DROP INLET OR MANHOLE BARRELS.

LINED DITCH
PERMANENT EROSION CONTROL

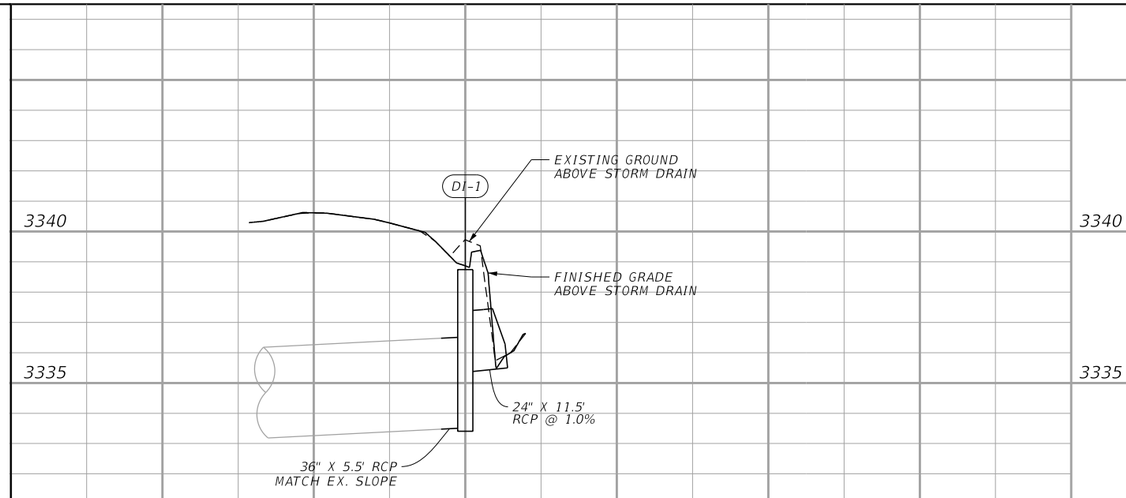


WIDTH VARIES, SEE CROSS SECTIONS.

NOTE:
SEE PESC MANUAL & DETAILED DWG. NO. 610-05

EROSION CONTROL BLANKET DETAIL

NO SCALE



STORM DRAIN DETAIL

SHEET 1 OF 1

STUCKEY ROAD

SCALE: 1"=5' VERTICAL
1"=50' HORIZONTAL

3	MONTANA Department of Transportation	C:\DGN\9532000rddet002.dgn	DESIGNED BY	L. OLIVER	7/2020	ROAD PLANS	STUCKEY ROAD-GREAT FALLS / CMGF 5299(134)
2		2/17/2022	REVIEWED BY				
		1:53:04 PM CPS - U4948	CHECKED BY	J. FLEMING	10/12/2021	CASCADE COUNTY	UPN 9532000 / 12

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INTERSECTION AREA MEASURED ON CADD



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SEC. 3 T. 20 N. R. 3 E.

10+00

POB 10+00.00

10+40
LIGHT POLE 36.7' RT
SEE ELECTRICAL PLANS

NW BYPASS

10+61
U.G. GAS. X-ING
DEPTH UNKNOWN

11+01
U.G.SEWER. X-ING
DEPTH UNKNOWN

DO NOT DISTURB HYDRANT IN PLACE
10+69.3 - 28.6' RT.

11+45.7
O.H. PWR. X-ING
CLEARANCE UNKNOWN

11+30
U.G. TEL. X-ING
DEPTH UNKNOWN

12+99
U.G. TEL. X-ING
DEPTH UNKNOWN

14+99
U.G. GAS. X-ING
DEPTH UNKNOWN

16+25
U.G. GAS. X-ING
DEPTH UNKNOWN

ADJUST MANHOLE IN PLACE
10+93.7 - 12' LT. SAN.
11+16.6 - 18' RT. SAN.
12+87.9 - 16' RT. SAN.
16+73.1 - 20' RT. SAN.
20+73.2 - 21' RT. SAN.

17+90
U.G. GAS. X-ING
DEPTH UNKNOWN

17+90
O.H. PWR. X-ING
CLEARANCE UNKNOWN

21+14
U.G. GAS. X-ING
DEPTH UNKNOWN

DO NOT DISTURB WATER VALVE IN PLACE
10+69.1 - 31.2' RT.
10+72.3 - 32.9' RT.
10+80.9 - 33.1' RT.
22+96.8 - 38.9' RT.

WETLAND WL-01
DELINEATED AREA = 0.235 AC
IMPACTED AREA= 0.002 AC

CON-WAY BUILDING

ROWLEY RENTALS BUILDING

20+00

PI 17+16.00
Δ =0° 37' 18" (RT)

EX. EASE.

N 18° 21' 24" W

N 17° 44' 06" W

100'

40'

R/W 10+29.87
70.80' FND. MON.
EX. R/W = R/W
BEG. ACQUISITION RT.

R/W 10+70.00
70.00'

R/W 11+50.00
48.10'
R/W = EX. EASE.

10+45.61 BEG. CMGF 5299(134)

10+63
DROP INLET & MANHOLE
IN PLACE LT.
REMOVE

10+63
NEW 60" TYPE 1 DROP INLET STRUCTURE
W/ CONCRETE APRON

13+50 TO 17+50
FILL DITCH LT.
134 CY TRAFFIC GRAVEL

17+02
24" RCP APP. PIPE RT.
REMOVE
NEW 28 1/2" X 18" RCPA
APP. PIPE RT.

19+00.00
BEG. CONST. PMT.

20+25 TO 21+50
FILL DITCH LT.
49 CY TRAFFIC GRAVEL

STORAGE SHED

20+37
24" RCP APP. PIPE RT.
REMOVE 56' RT.
REMOVE 40' LT.
NEW 24" RCP APP. PIPE RT
FETS LT. & RT.

21+00.00
BEG. CONST. PMT.
END ACQUISITION RT.

22+44
NEW 28 1/2" X 18" RCPA
APP. PIPE RT.

22+93
18" CSP IN PL. RT.
DO NOT DISTURB

13+14
PRIVATE APP. LT.
(50' WIDE W/ TRUCK RADII)
(SEE GEOMETRIC DETAIL)

14+09
PRIVATE APP. LT.
(30' WIDE W/ TRUCK RADII)
(SEE GEOMETRIC DETAIL)

16+20
PRIVATE APP. LT.
(30' WIDE W/ TRUCK RADII)
(SEE GEOMETRIC DETAIL)

17+02
PRIVATE APP. RT.
(26' WIDE W/ TRUCK RADII)
(SEE GEOMETRIC DETAIL)

17+70
PRIVATE APP. LT.
(30' WIDE W/ TRUCK RADII)
(SEE GEOMETRIC DETAIL)

20+00
PRIVATE APP. LT.
(30' WIDE W/ TRUCK RADII)
(SEE GEOMETRIC DETAIL)

20+37
PRIVATE APP. RT.
(110' WIDE W/ 25' RADII)

22+44
PRIVATE APP. RT.
(45' WIDE W/ 25' RADII)

22+30
PRIVATE APP. LT.
(24' WIDE W/ 25' RADII)

3.339.17
25' VC
-0.659%
+3.000%
+3.000%
13+15.00
EL.3,346.82
+0.825%
+0.825%
80' VC
16+20.00
EL.3,349.33
+1.630%
+1.630%
17+55.00
EL.3,351.53
180' VC
-0.255%
-0.255%
25' VC
19+00.00
EL.3,351.16
+0.640%
200' VC
10+57.00
EL.3,339.08

10+49 TO 16+60
EROSION CONTROL BLANKET LINED DT. RT.

17+34 TO 19+64
EROSION CONTROL BLANKET LINED DT. RT.

21+08 TO 21+98
EROSION CONTROL BLANKET LINED DT. RT.

22+83 TO 23+91
EROSION CONTROL BLANKET LINED DT. RT.

NEW CONCRETE CURB AND GUTTER LT.
+64.28
+99.52

NEW CONCRETE CURB AND GUTTER RT.
+27.79
+07.85

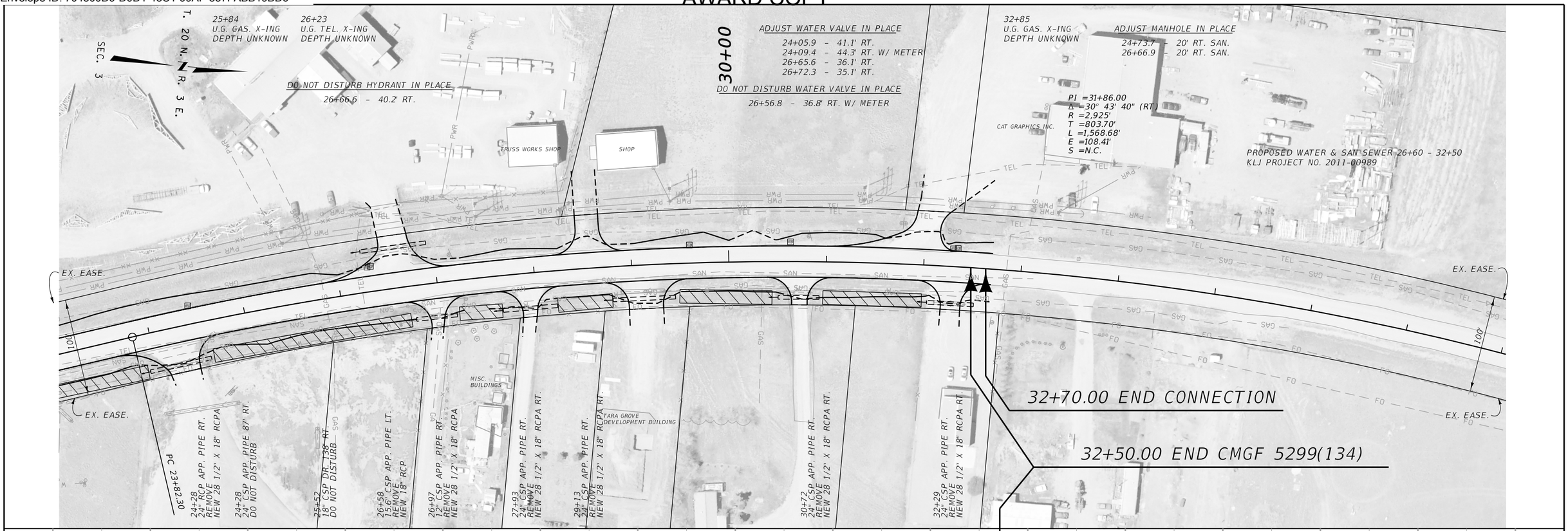
3360
3350
3340
3330
3320

10+00
15+00
20+00

3	MONTANA Department of Transportation	C:\DGN\9532000rdplp001.dgn	DESIGNED BY	DANIEL ZIESKE	11/21/2018	ROAD PLANS	STUCKEY ROAD-GREAT FALLS / CMGF 5299(134)
2		2/17/2022	REVIEWED BY	JEANIA CERECK		CASCADE COUNTY	UPN 9532000 / 14
		1:53:38 PM CPS - U4948	CHECKED BY	J. FLEMING	10/12/2021		

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV	14.2	SQ. FOOT
SIGNS-ALUM REFL SHEET XI	10.2	SQ. FOOT
SIGNS-ALUM SHEET INCR IV		SQ. FOOT
SIGNS-ALUM SHEET INCR XI		SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL U SIGN	19	POUNDS
POLES-TREATED WOOD 4 IN	16	LINEAR FT.
POLES-TREATED WOOD 5 IN		LINEAR FT.
POLES-TREATED TIMBER-CLASS 4		LINEAR FT.
POLES-TREATED TIMBER-CLASS 3		LINEAR FT.
POSTS-TUBULAR STEEL		POUNDS
POSTS-TUBULAR STEEL-SQ-PERF	66	POUNDS
POSTS-STEEL STRUCTURAL SIGN		POUNDS
OVERHEAD STR/METAL-CANTILEVER		EACH
OVERHEAD STR/METAL-BRIDGE		EACH
HIGHWAY TRAFFIC STRIPING-WHITE		GAL.(S)
HIGHWAY TRAFFIC STRIPING-YELLOW		GAL.(S)
WORDS & SYMBOLS		GAL.(S)
DELINEATOR DES A		EACH
DELINEATOR DES B		EACH
DELINEATOR DES C		EACH
DELINEATOR DES D		EACH
DELINEATOR DES E		EACH
DELINEATOR DES F		EACH
DELINEATOR DES G		EACH
DELINEATOR DES H		EACH
REMOVE SIGNS	3	EACH
REMOVE SIGNS-GUIDE		EACH
RESET SIGNS		EACH
RESET SIGNS-GUIDE		EACH
FRANG SIGN POST BKWY-		EACH
FRANG SIGN POST BKWY-		EACH
SQ TUBLR SLIP BASE BKWY-3 IN		EACH

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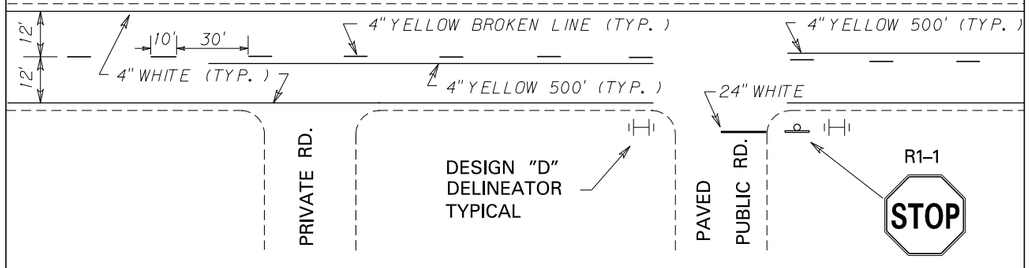
SIGN LOCATION AND SPECIFICATIONS

STATION	RAMP NO.	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	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
10+74 LT		(2)D-3 (2)D-3	42X10 42X10	IV IV	IV IV									5.8=IV 5.8=IV														D-3=NW BYPASS D-3=STUCKEY RD
		R1-1	30X30	X1	X1	2-0		2½" SQ. TUBE		13-5		7-0	3-0	5.2=X1						66			▲	1					
10+91 RT		(2)D10-1	10X18	IV	IV	4-0		2LB/FT "U"POST		9-6		4-0	3-0	2.6=IV								19		1					D10-1=MILE 0
12+49 RT		R2-1	24X30	X1	-	10-0		4" Dia. POLE		14-4		7-0	3-0	5.0=X1			16							1					R2-1=25
TOTALS														14.2=IV 10.2=X1			16			66		19		3					

▲ = SINGLE SQUARE TUBE REQUIRED. MOUNTED IN HEAVY DUTY STUB.

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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ELECTRICAL QUANTITY SUMMARY

ITEM NO.	MATERIAL	TOTAL	UNIT
616 343 914	CONDUIT-PLASTIC 1 1/2 IN	50	LNFT
616 783 007	PULL BOX-COMPOSITE TYPE 2	1	EACH
617 000 000	FOUNDATION-CONCRETE	0.5	CUYD
617 123 108	CONDUCTOR-COPPER AWG8-600V	300	LNFT
617 123 110	CONDUCTOR-COPPER AWG10-600V	150	LNFT
617 183 056	STANDARD-STL TYPE 10-A-500-6	1	EACH
617 303 300	HIGH EFFICACY LUMINAIRE LED	2	EACH
617 781 000	REMOVE AND SALVAGE MISC ELECTRICAL	1	LS

QUANTITY SUMMARY

NO SCALE

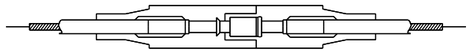
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2		1/5/2022	REVIEWED BY					
		9:31:54 AM CPS - U2593	CHECKED BY			CASCADE COUNTY	UPN #9532000	SHEET E1

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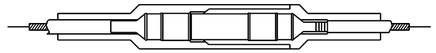
WATERTIGHT CONNECTORS

TYPES 1, 6, 11 & 16



NON-FUSED BREAKAWAY

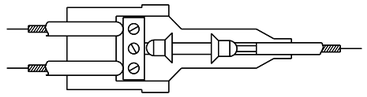
TYPES 2, 7, 12 & 17



FUSED BREAKAWAY

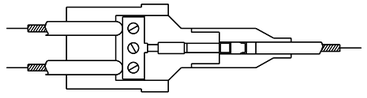
IDENTITY NO.	DESCRIPTIVE SYMBOL & WIRE SIZES
1	8 — 8
2	8 — 10
3	8 / 8 — 10
4	8 / 8 — 8
5	8 / 8 — 8
6	6 — 6
7	6 — 10
8	6 / 6 — 10
9	6 / 6 — 6
10	6 / 6 — 6
11	4 — 4
12	4 — 10
13	4 / 4 — 10
14	4 / 4 — 4
15	4 / 4 — 4
16	10 — 10
17	10 — 10
18	10 / 10 — 10
19	10 / 10 — 10
20	10 / 10 — 10
21	VARIES / VARIES — VARIES

TYPES 3, 8, 13 & 18



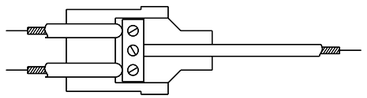
FUSED BREAKAWAY

TYPES 4, 9, 14 & 19



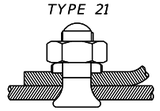
NON-FUSED BREAKAWAY

TYPES 5, 10, 15 & 20



NON-FUSED NON-BREAKAWAY

TYPE 21



COPPER SPLIT BOLT - MAKE WATERTIGHT USING SELF ADHERING MASTIC

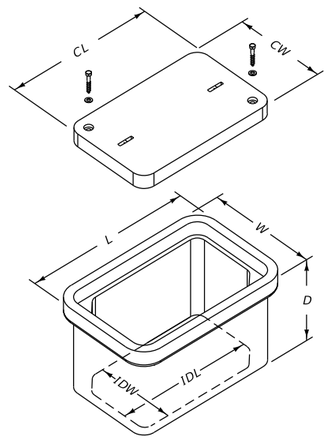
PROVIDE A PLUG AND RECEPTACLE HOUSED IN WATER-RESISTANT, SYNTHETIC RUBBER CAPABLE OF BURIAL IN THE GROUND OR INSTALLATION IN SUNLIGHT. THE HOUSING, CONSISTING OF 2 SECTIONS, PROVIDES A WATERTIGHT SEAL AROUND THE CABLE AND A WATERTIGHT SEAL BETWEEN THE TWO SECTIONS AT THE POINT OF DISCONNECTION. SUPPLY EACH KIT WITH SUFFICIENT SILICONE COMPOUND TO LUBRICATE METAL PARTS AND THE RUBBER HOUSINGS FOR EASY ASSEMBLY.

WHERE INDICATED, CRIMP A COPPER PIN AND A COPPER RECEPTACLE TO THE CABLE. THE RECEPTACLE IS TO ESTABLISH CONTACT PRESSURE WITH THE PIN THROUGH THE USE OF A COPPER BERYLLIUM SPRING AND BE EQUIPPED WITH A DISPOSABLE MOUNTING PIN. THE PIN IS TO BE CONSTRUCTED OF AT LEAST HALF-HARD MATERIAL. THE CRIMPING PORTION IS TO BE FULLY ANNEALED WHILE THE REST OF THE PIN IS MAINTAINED IN ITS ORIGINAL STATE OF HARDNESS. THE RECEPTACLE IS TO BE FULLY ANNEALED. THE PIN AND RECEPTACLE ARE TO LOCK TOGETHER SO THE CONNECTION IS MAINTAINED WHEN A MINIMUM FORCE OF 20 POUNDS TENSION IS APPLIED TO THE ATTACHED CABLES.

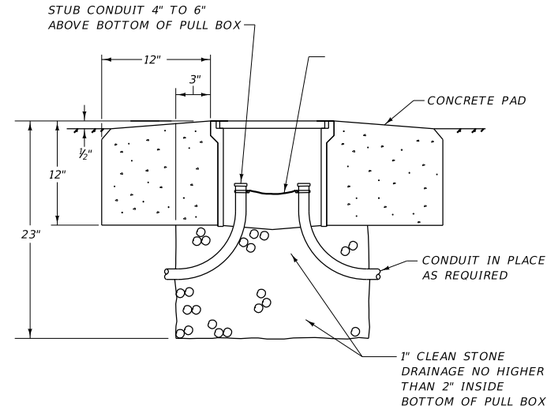
PROVIDE FUSED CONNECTOR KITS CONTAINING A PAIR OF SPRING LOADED 90% CONDUCTIVITY CONTACTS FOR GRIPPING A STANDARD MIDGET FERRULE TYPE FUSE. THE CONTACTS MUST BE FULLY ANNEALED AND ADAPTED TO BE CRIMPED TO THE CABLE.

WATERTIGHT CONNECTORS

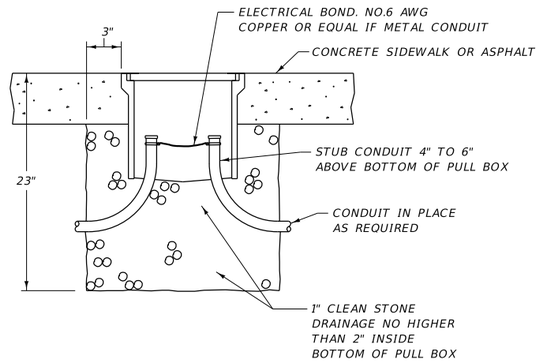
NO SCALE



PULL BOX - COMPOSITE MINIMUM DIMENSIONS		
TYPE 1	TYPE 2	TYPE 3
L = 20"	L = 25"	L = 32"
W = 13"	W = 15"	W = 19"
D = 12"	D = 12"	D = 12"
I D L = 17"	I D L = 21"	I D L = 28"
I D W = 10"	I D W = 11"	I D W = 15"
C L = 18"	C L = 23"	C L = 30"
C W = 11"	C W = 13"	C W = 17"



PULL BOX INSTALLED IN DIRT



PULL BOX INSTALLED IN A SIDEWALK OR ASPHALT

PULL BOX-COMPOSITE

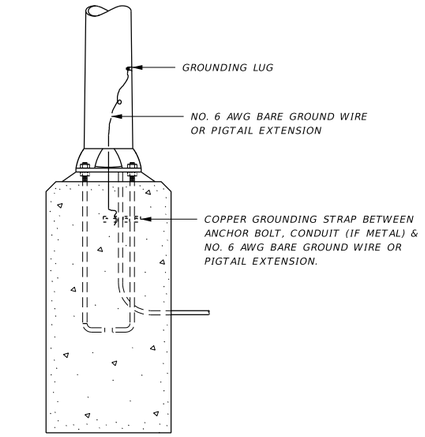
TYPE 1,2 & 3

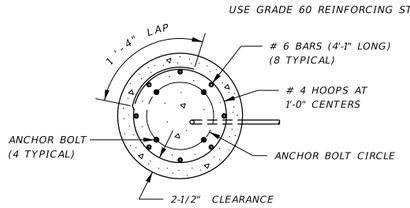
NO SCALE

PB2

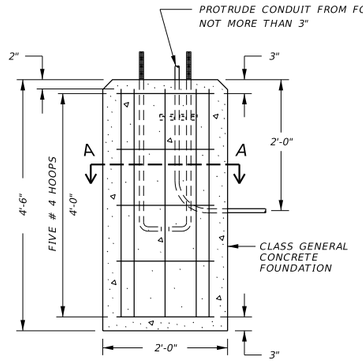
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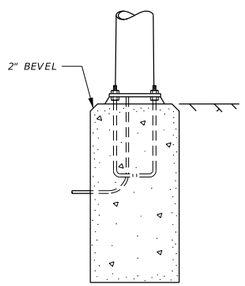




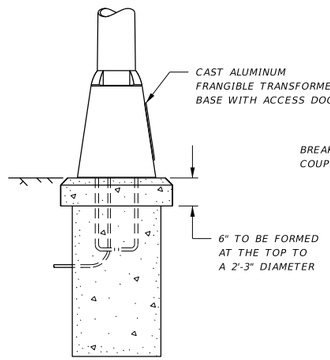
SECTION A-A



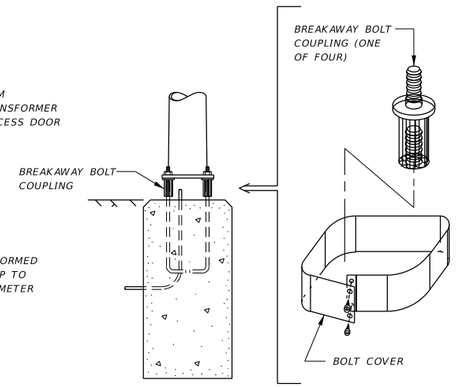
TYPICAL OF ALL FOUNDATIONS



ANCHOR

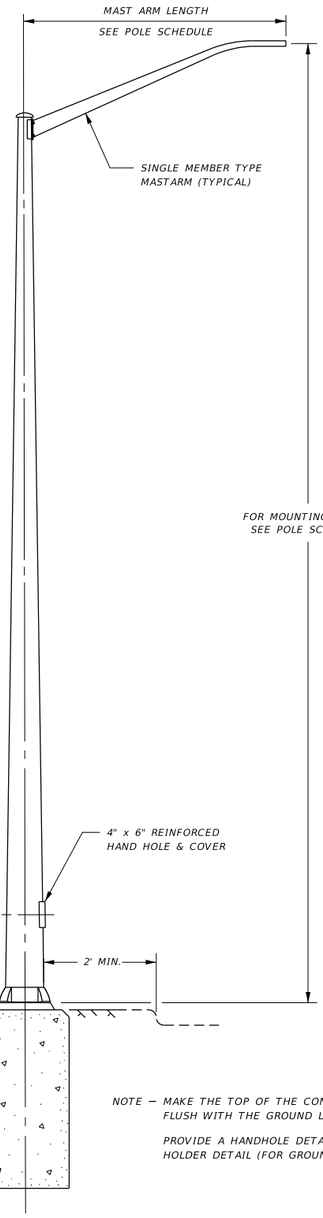


TRANSFORMER (BREAKAWAY TYPE)



BOLT COUPLING (BREAKAWAY TYPE)

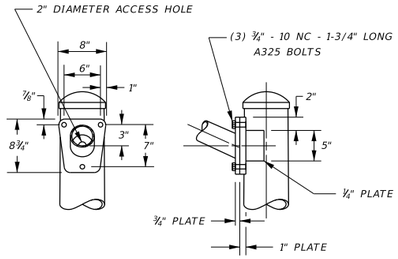
BASE TYPES FOR LUMINAIRE STANDARDS



NOTE – MAKE THE TOP OF THE CONCRETE FOUNDATION FLUSH WITH THE GROUND LINE.

PROVIDE A HANDHOLE DETAIL AND A ½" NUT HOLDER DETAIL (FOR GROUNDING) .

TYPE 10-A POLE



LUMINAIRE ARM CONNECTION

4' THROUGH 12' LUMINAIRE ARMS

TYPE 10-A LUMINAIRE STANDARDS, POLE BASES & FOUNDATION DETAILS

NO SCALE

LS

REVISED 15-APR-2014

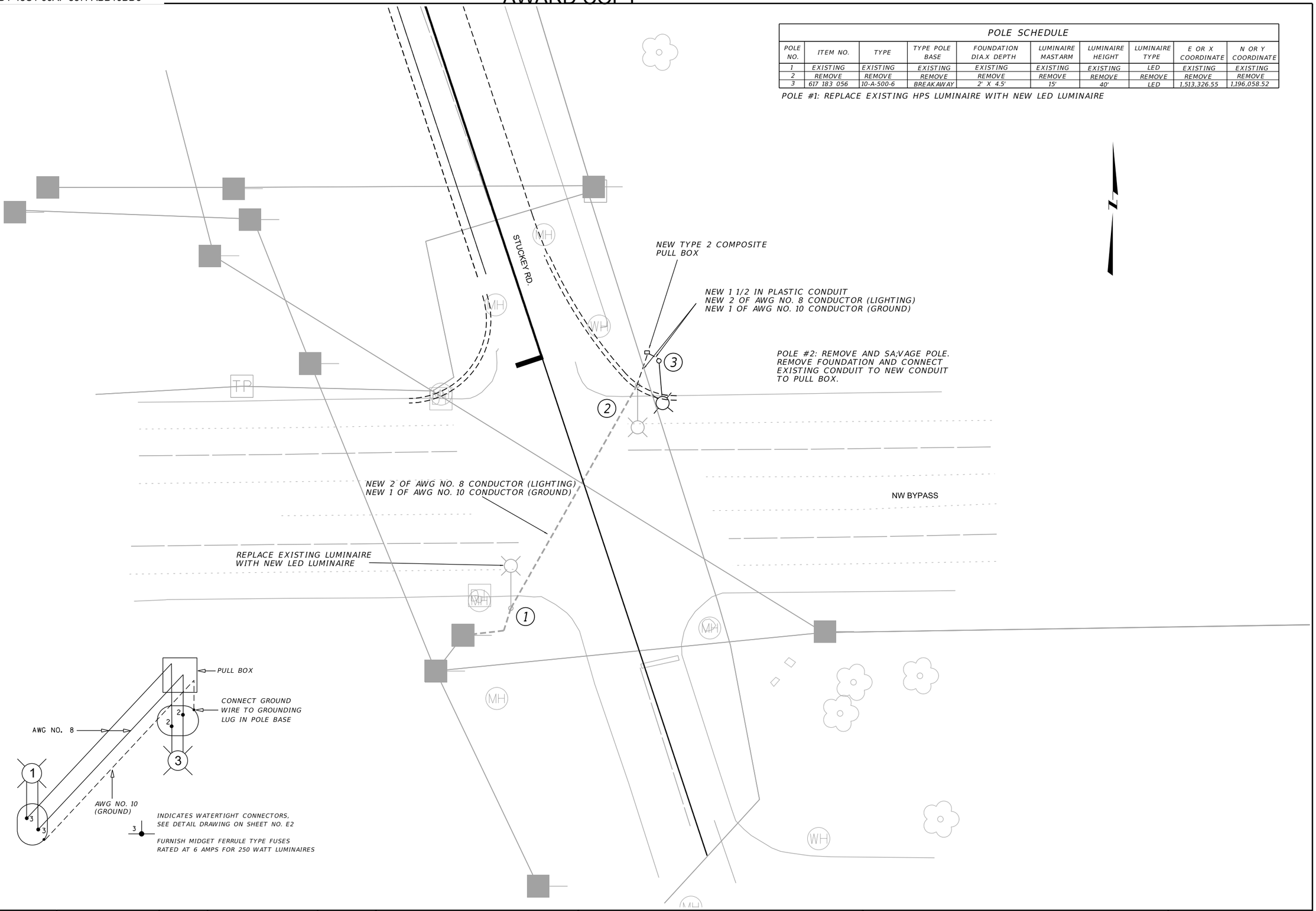
2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000eldet001.dgn	DESIGNED BY	Dan Cunningham	12/2019	ELECTRICAL PLANS		STUCKEY ROAD - GREAT FALLS	CMGF 5299(133)
1		1/5/2022	REVIEWED BY			CASCADE COUNTY		UPN #9532000	SHEET E3
		9:32:02 AM CPS - U259	CHECKED BY						

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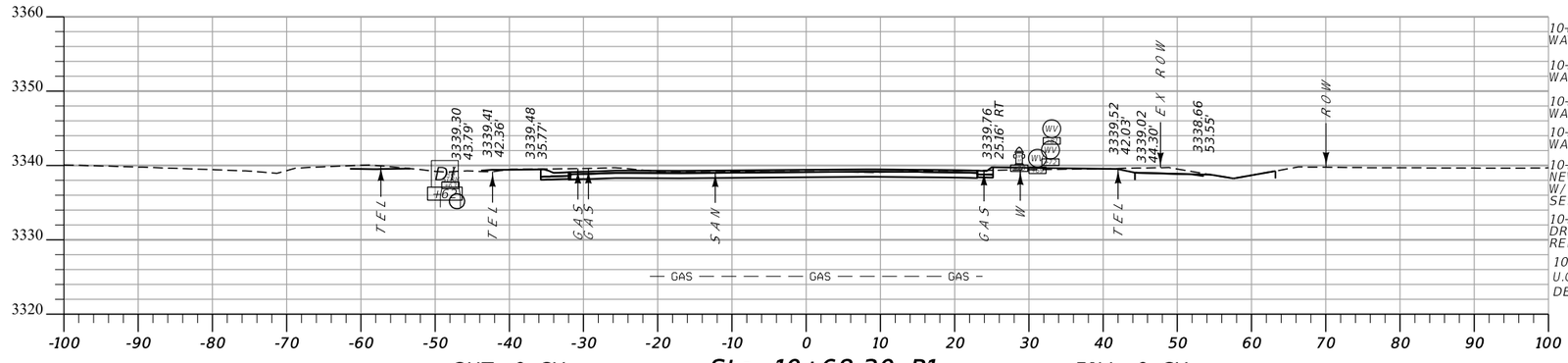
POLE SCHEDULE									
POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	LUMINAIRE MASTARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	E OR X COORDINATE	N OR Y COORDINATE
1	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	LED	EXISTING	EXISTING
2	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE
3	617 183 056	10-A-500-6	BREAKAWAY	2' X 4.5'	15'	40'	LED	1,513,326.55	1,196,058.52

POLE #1: REPLACE EXISTING HPS LUMINAIRE WITH NEW LED LUMINAIRE



3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000elpln001.dgn	DESIGNED BY	Dan Cunningham	12/2019	ELECTRICAL PLANS	STUCKEY ROAD - GREAT FALLS / CMGF 5299(133)
2		1/5/2022	REVIEWED BY				
		9:32:13 AM CPS - U259	CHECKED BY			CASCADE COUNTY	UPN #9532000 / SHEET E4

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10+80 33' RT.
WATER VALVE BOX-DO NOT DISTURB

10+72 32' RT.
WATER VALVE BOX-DO NOT DISTURB

10+70 29' RT.
WATER HYDRANT-DO NOT DISTURB

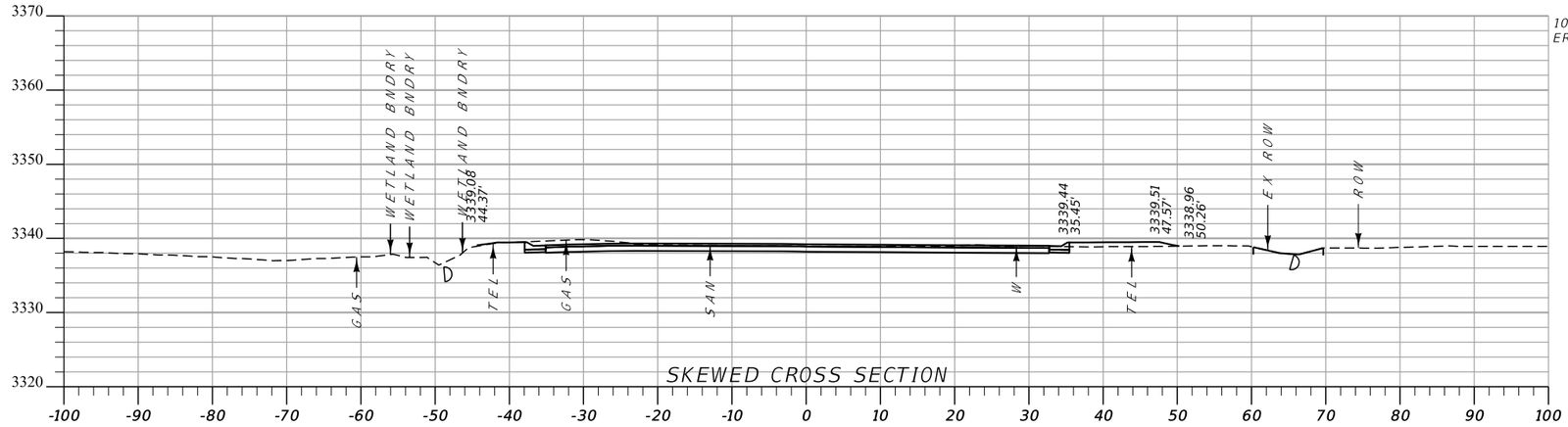
10+69 32' RT.
WATER VALVE BOX-DO NOT DISTURB

10+63 47' LT.
NEW 60" TYPE I DROP INLET STRUCTURE
W/ CONCRETE APRON
SEE DETAIL

10+63 48' LT.
DROP INLET & MANHOLE IN PL. LT.
REMOVE

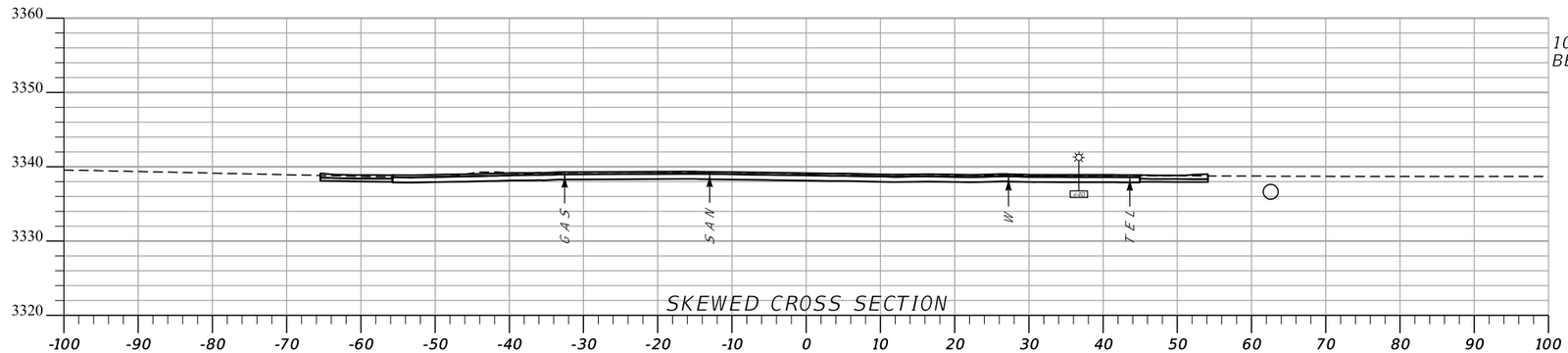
10+61
U.G. GAS. X-ING
DEPTH UNKNOWN

CUT: 0 CY **Sta. 10+68.30 R1** FILL: 0 CY



10+49.20 TO 16+60.51
EROSION CONTROL BLANKET LINED DT. RT.

Sta. 10+56.42 R1

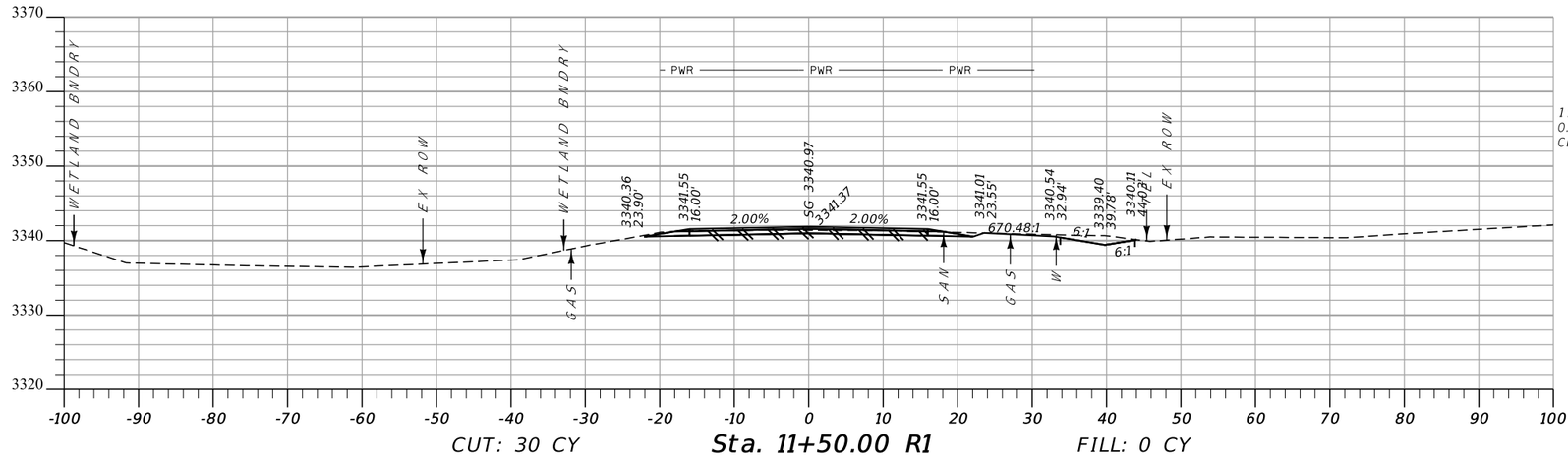


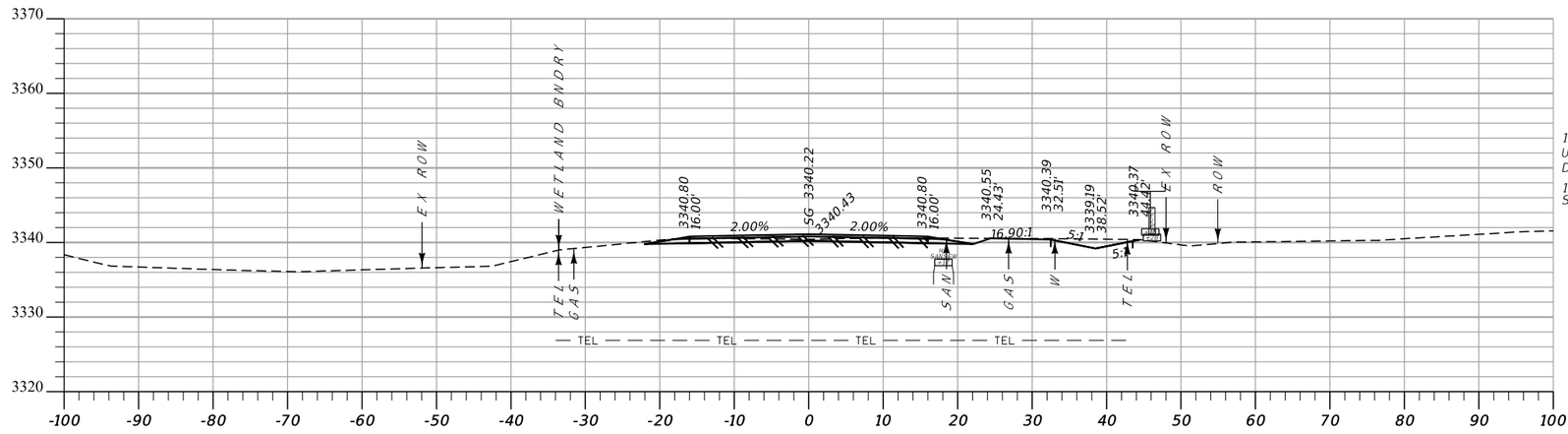
10+45.61
BEG. CMGF 5299(134)

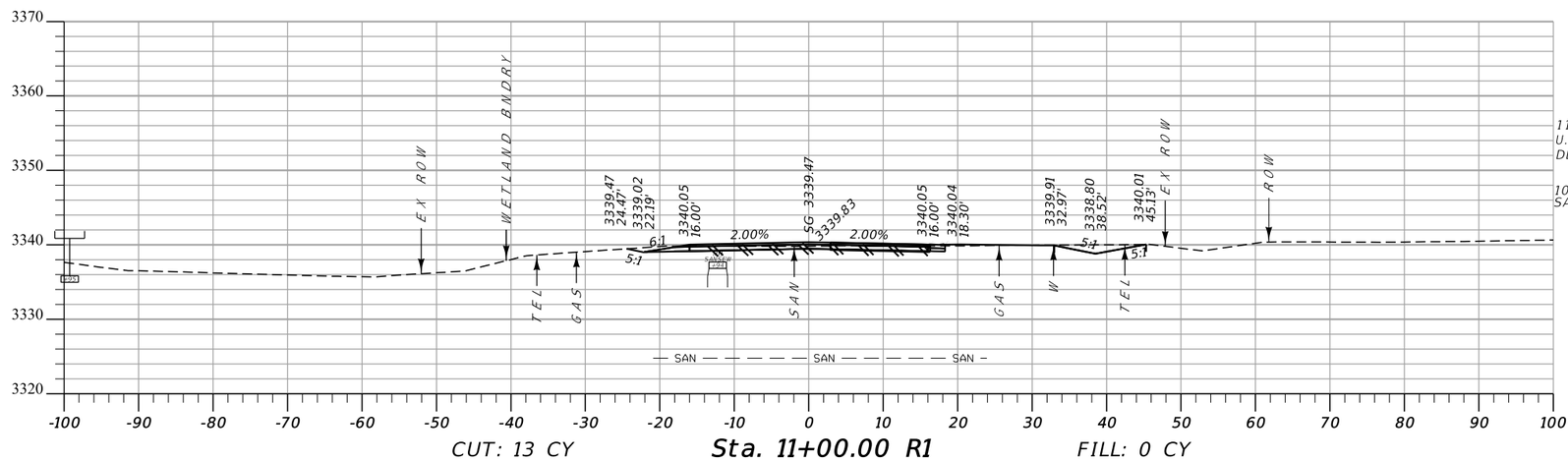
Sta. 10+45.61 R1

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:08:15 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 1

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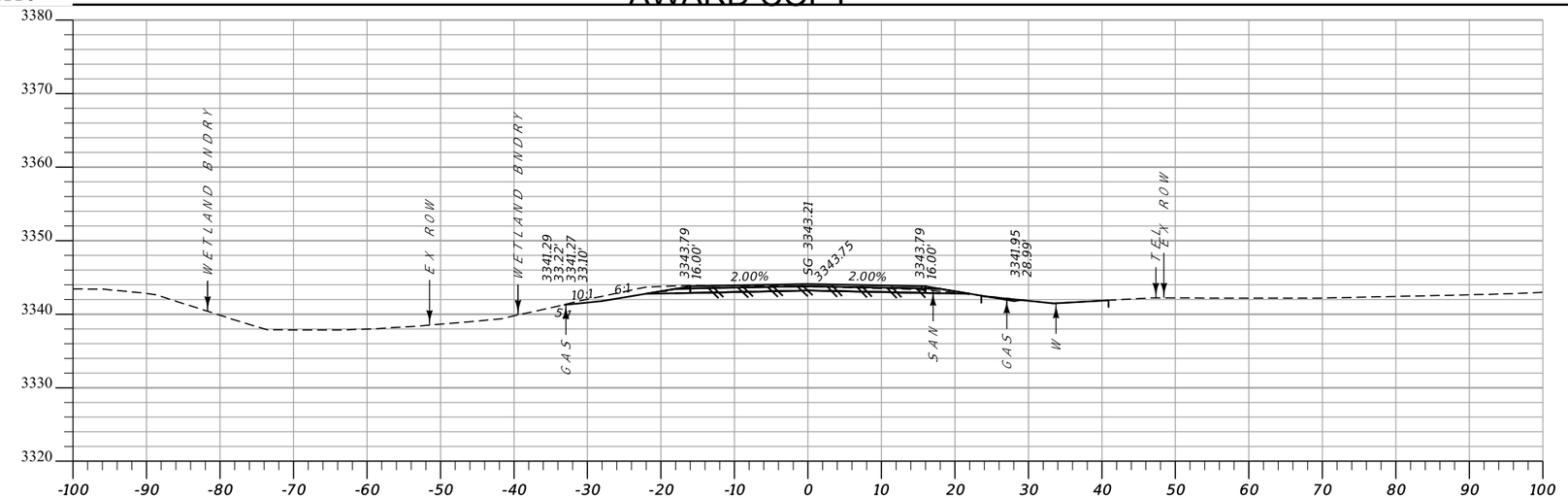




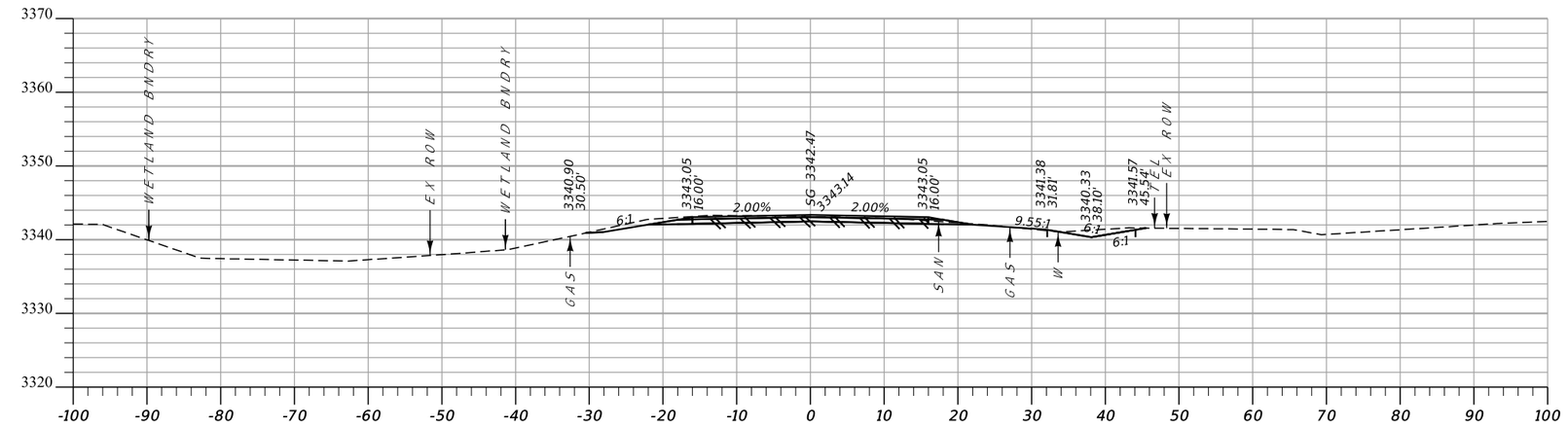
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020	CASCADE COUNTY	UPN 9532000	SHEET 2
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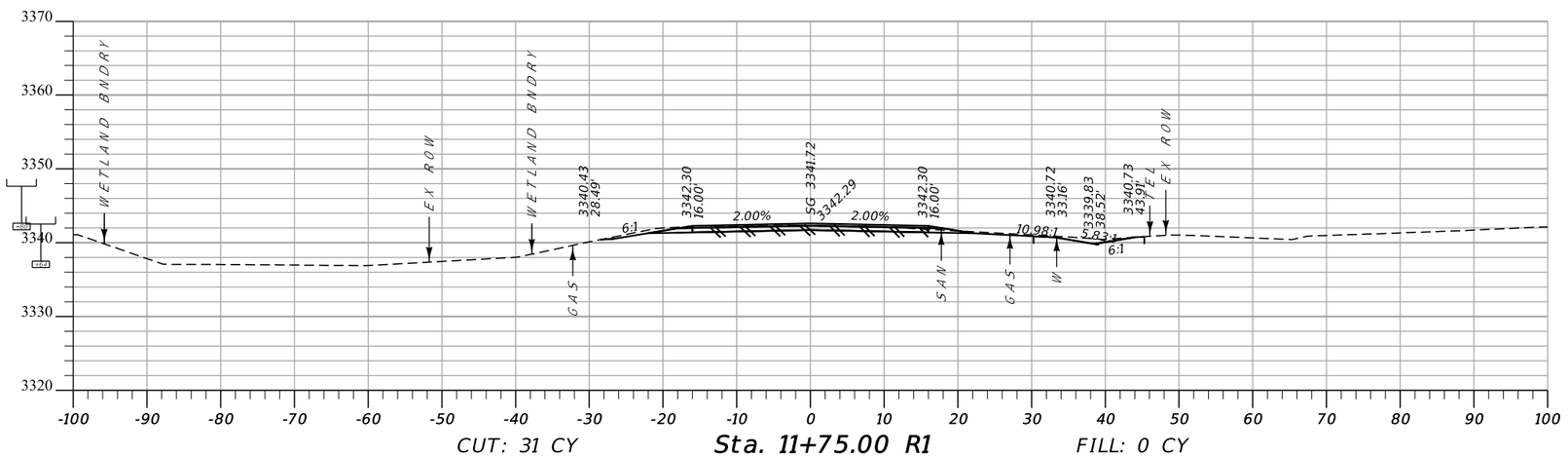
AWARD COPY



CUT: 35 CY **Sta. 12+25.00 R1** FILL: 0 CY



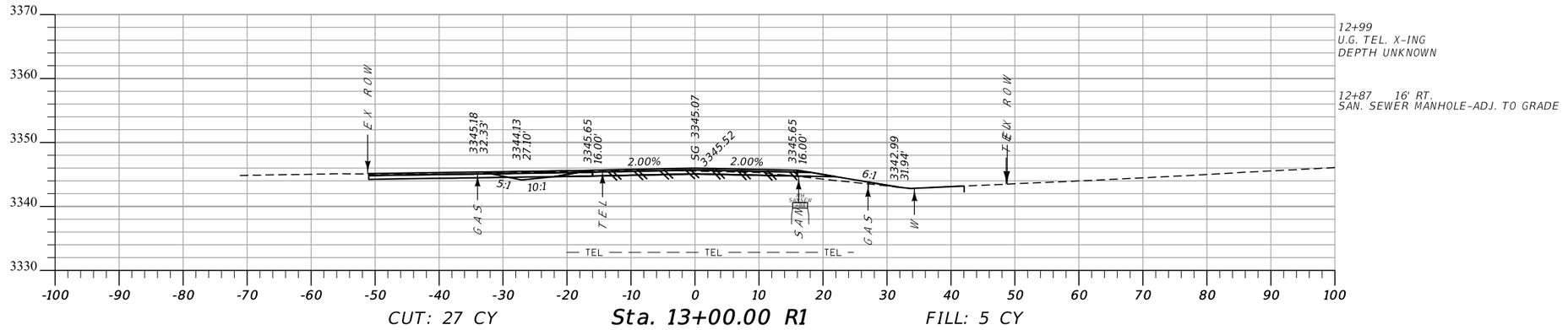
CUT: 36 CY **Sta. 12+00.00 R1** FILL: 0 CY



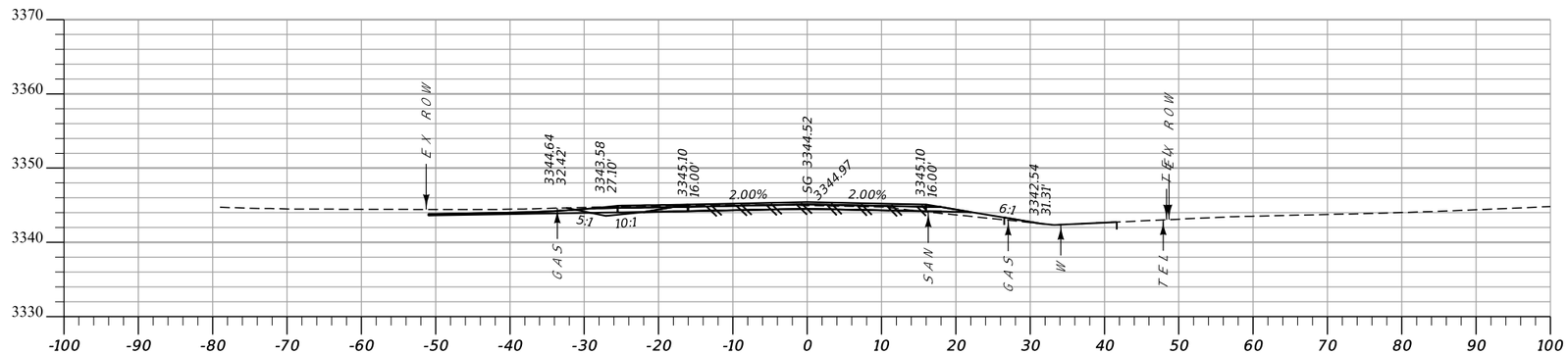
CUT: 31 CY **Sta. 11+75.00 R1** FILL: 0 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020	CASCADE COUNTY	UPN 9532000	SHEET 3
	3:08:29 PM CPS - U3530	CHECKED BY					

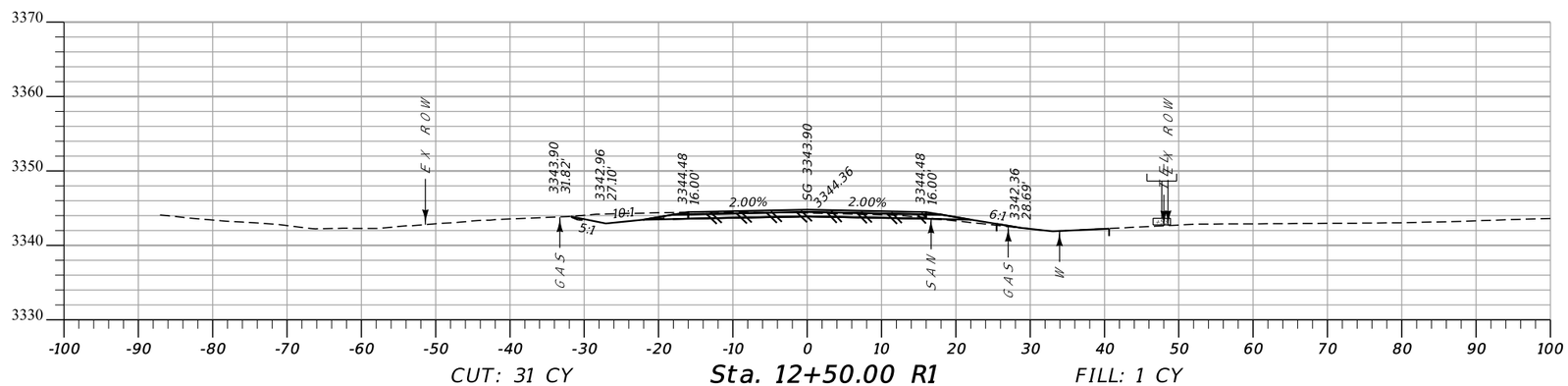
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CUT: 27 CY **Sta. 13+00.00 R1** FILL: 5 CY



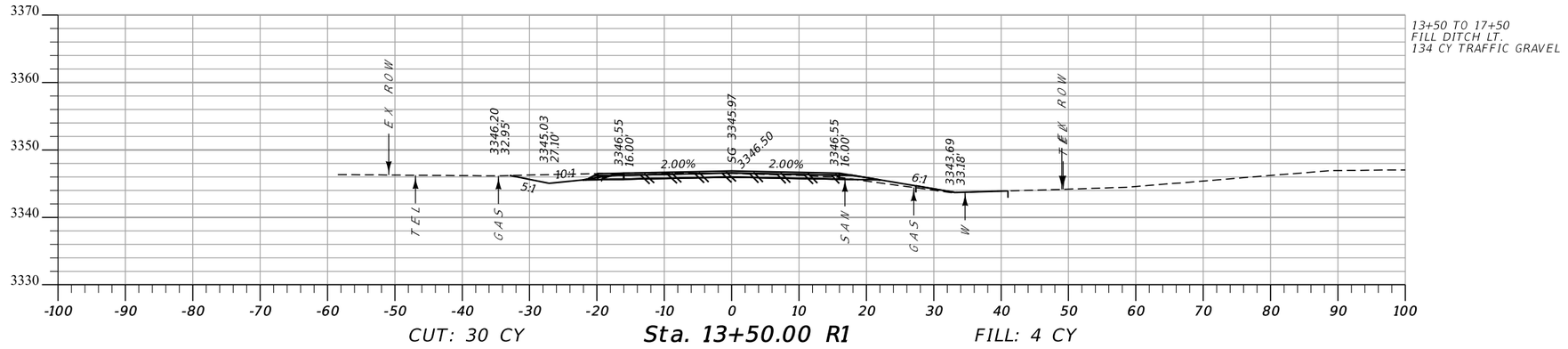
CUT: 28 CY **Sta. 12+75.00 R1** FILL: 3 CY



CUT: 31 CY **Sta. 12+50.00 R1** FILL: 1 CY

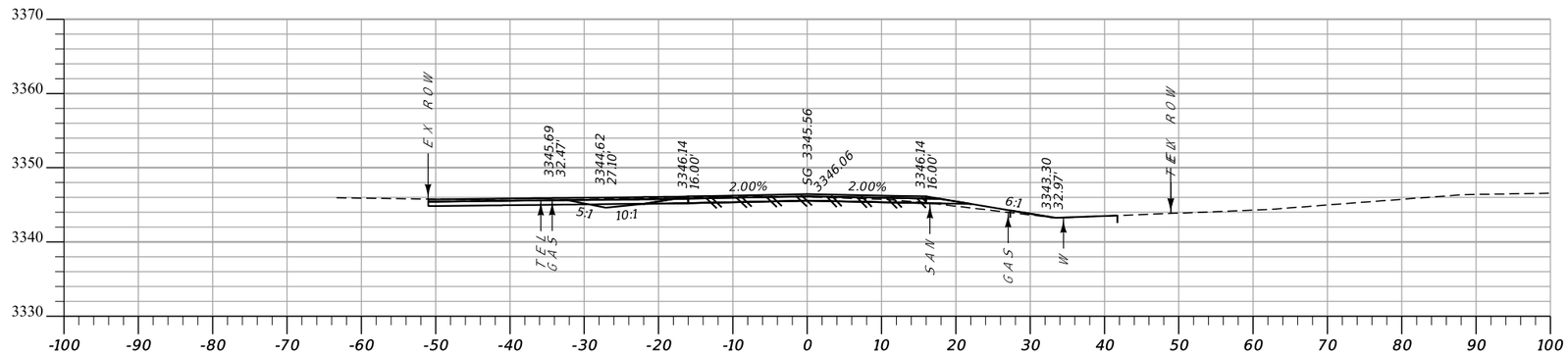
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
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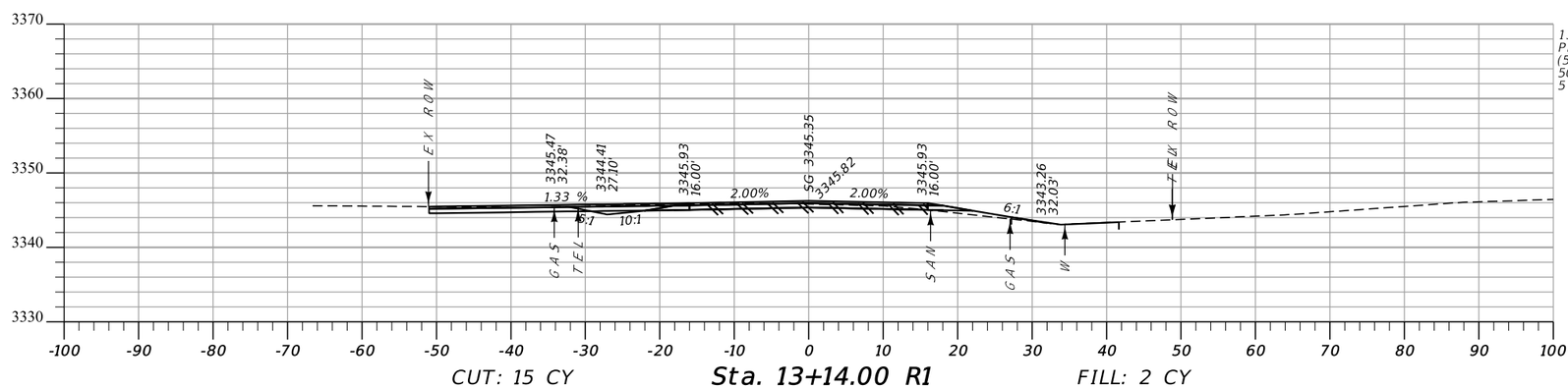


13+50 TO 17+50
FILL DITCH LT.
134 CY TRAFFIC GRAVEL

CUT: 30 CY **Sta. 13+50.00 R1** FILL: 4 CY



CUT: 12 CY **Sta. 13+25.00 R1** FILL: 2 CY

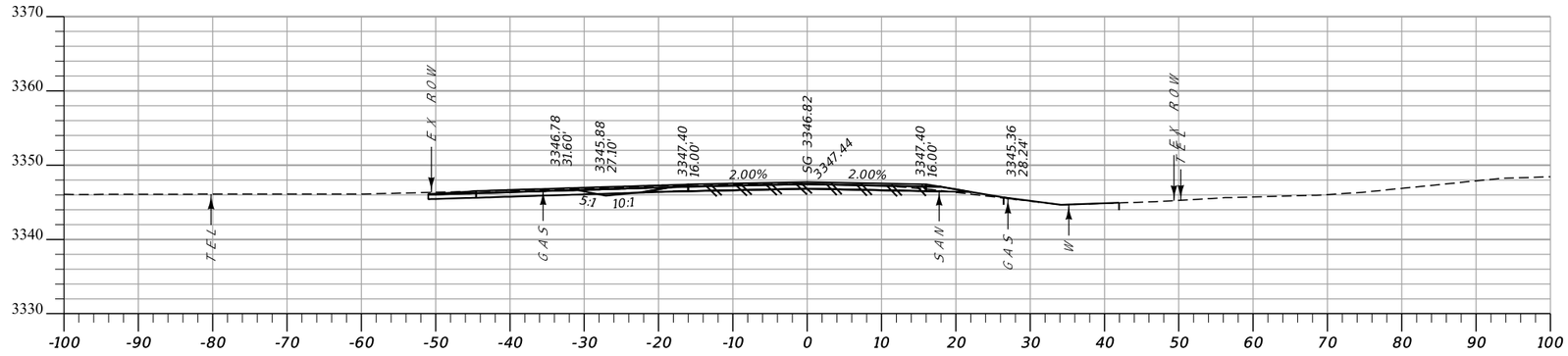


13+14
PRIVATE APP. LT.
(50' WIDE W/ TRUCK RADII)
50 CY EXC.
5 CY EMB.+

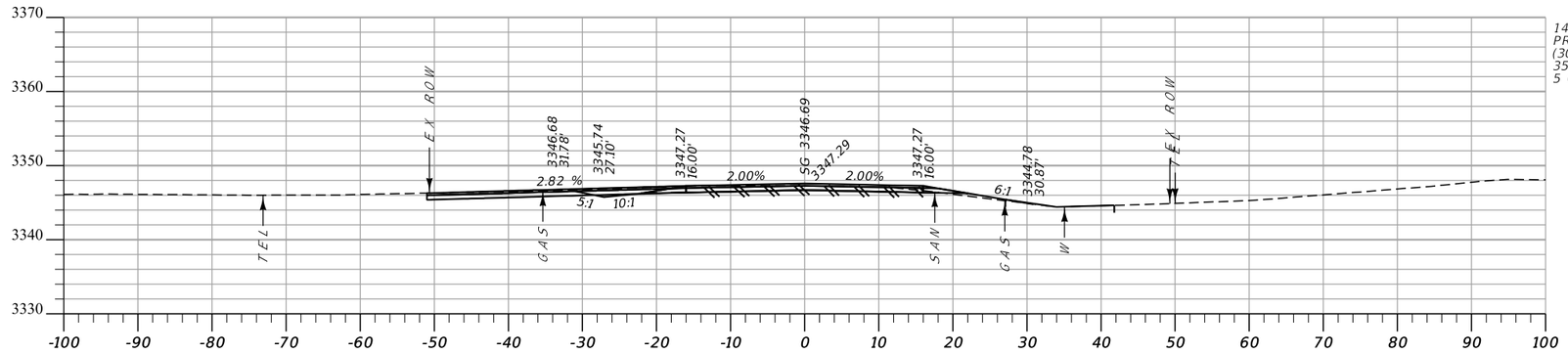
CUT: 15 CY **Sta. 13+14.00 R1** FILL: 2 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK	10/2/2020			
	3:08:44 PM CPS - U3530	CHECKED BY		CASCADE COUNTY	UPN 9532000	SHEET 5

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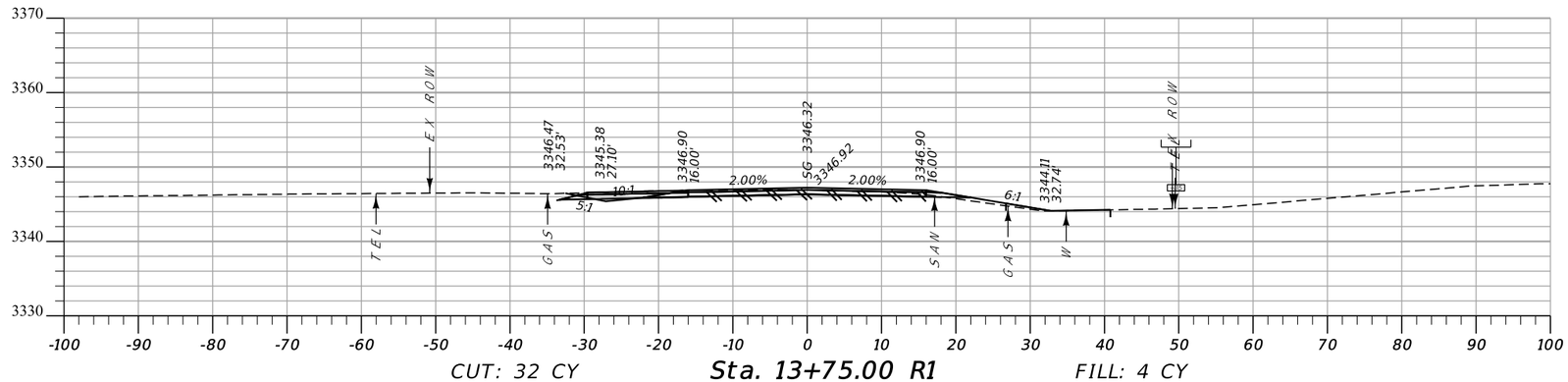


CUT: 20 CY **Sta. 14+25.00 R1** FILL: 1 CY



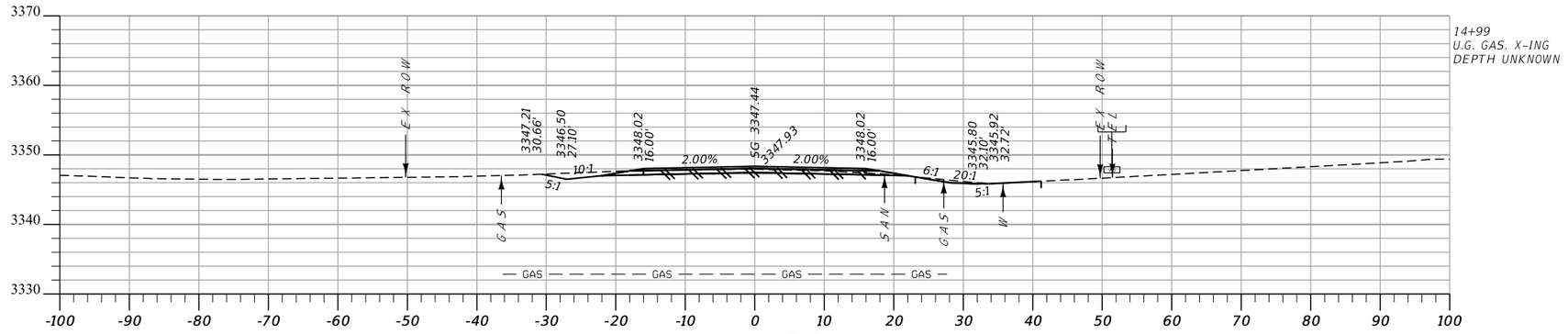
CUT: 43 CY **Sta. 14+09.00 R1** FILL: 4 CY

14+09
PRIVATE APP. LT.
(30' WIDE W/ TRUCK RADII)
35 CY EXC.
5 CY EMB.+

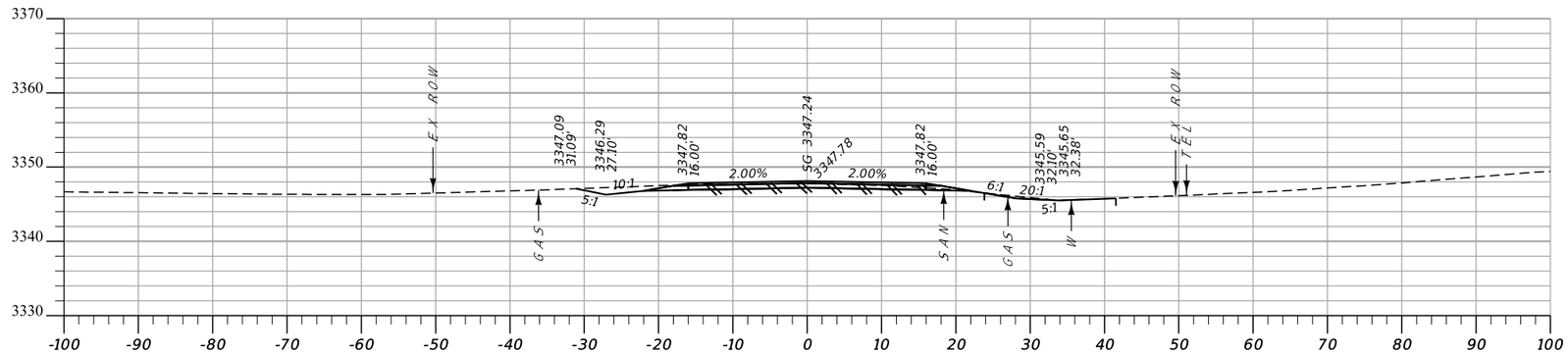


CUT: 32 CY **Sta. 13+75.00 R1** FILL: 4 CY

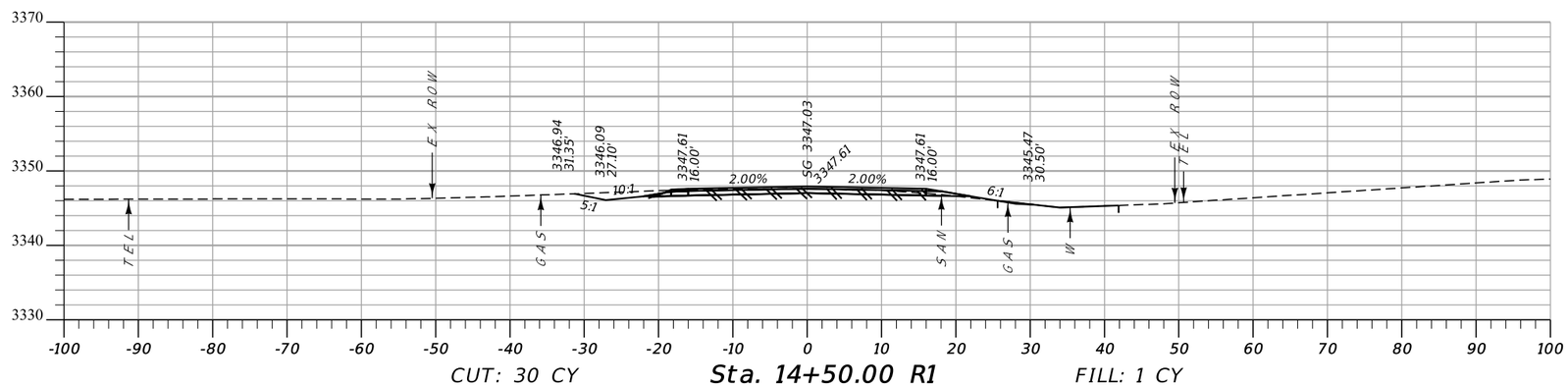
DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6



CUT: 27 CY **Sta. 15+00.00 R1** FILL: 0 CY



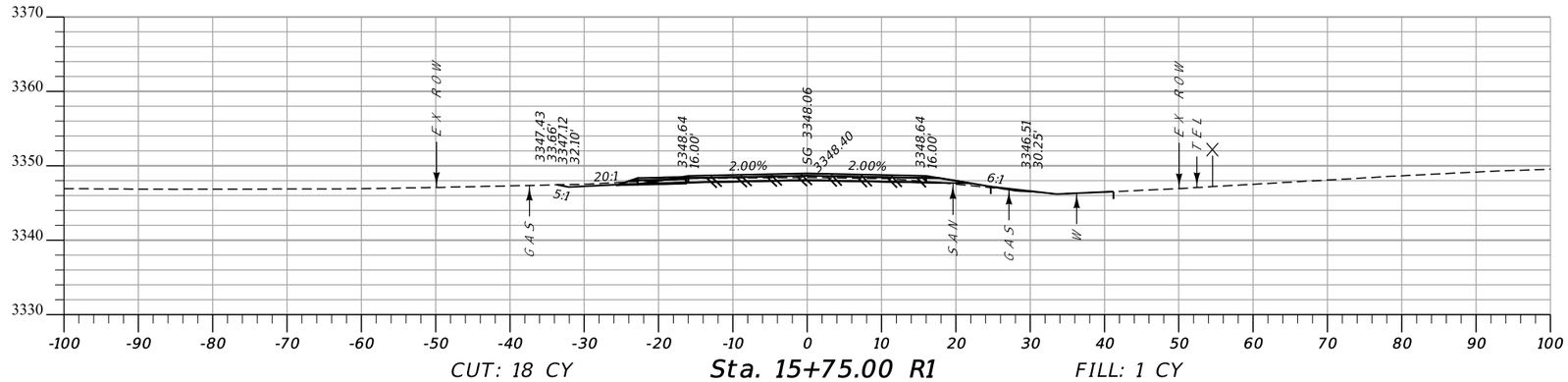
CUT: 29 CY **Sta. 14+75.00 R1** FILL: 0 CY



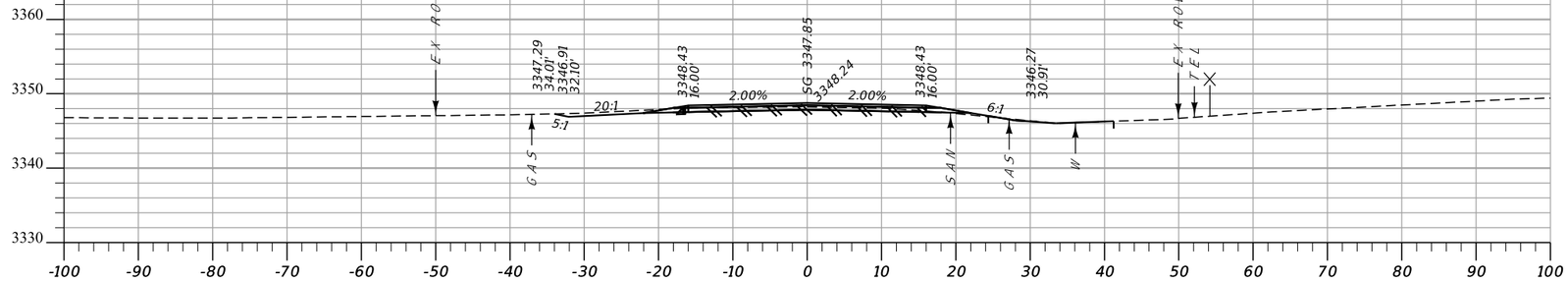
CUT: 30 CY **Sta. 14+50.00 R1** FILL: 1 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:08:58 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 7

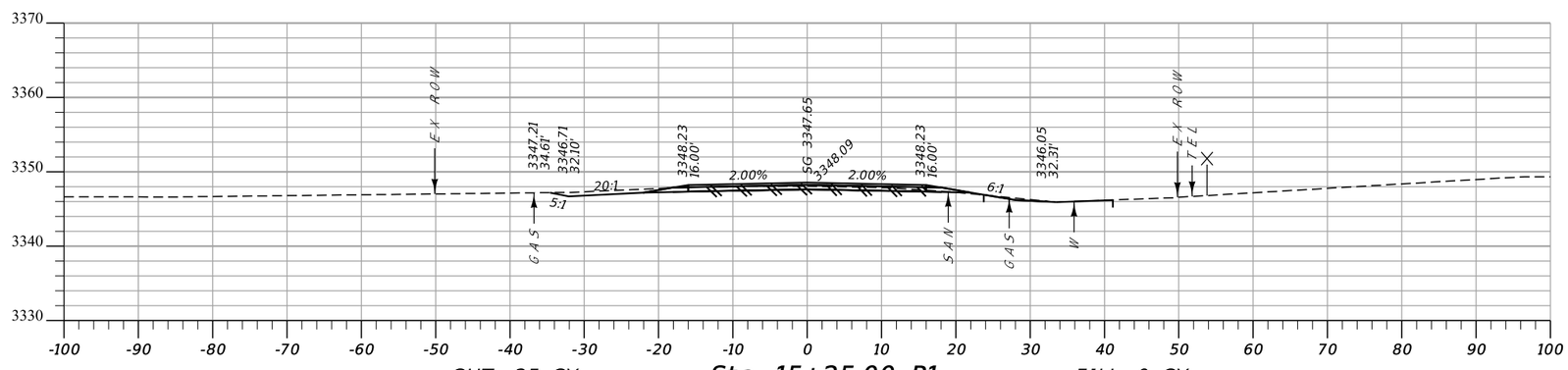
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CUT: 18 CY **Sta. 15+75.00 R1** FILL: 1 CY



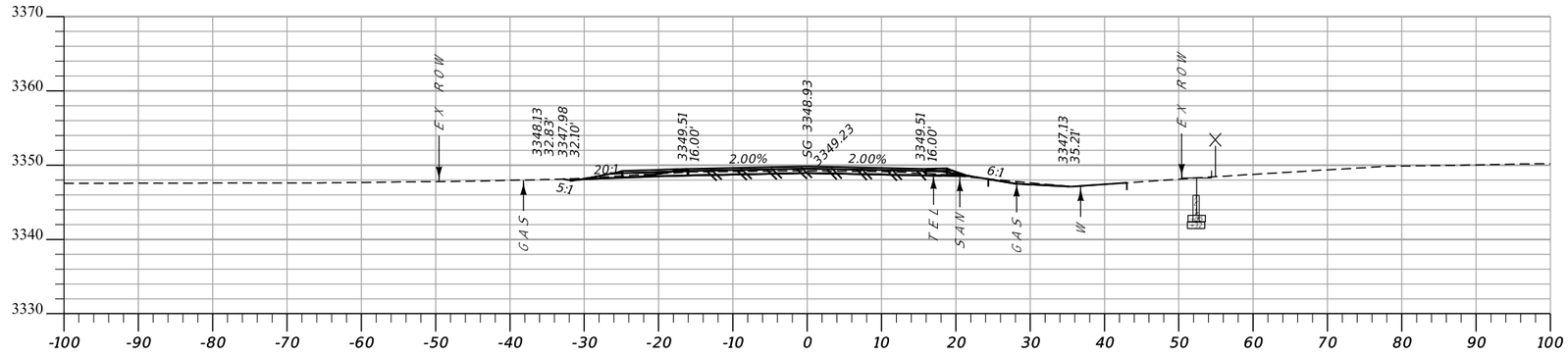
CUT: 22 CY **Sta. 15+50.00 R1** FILL: 1 CY



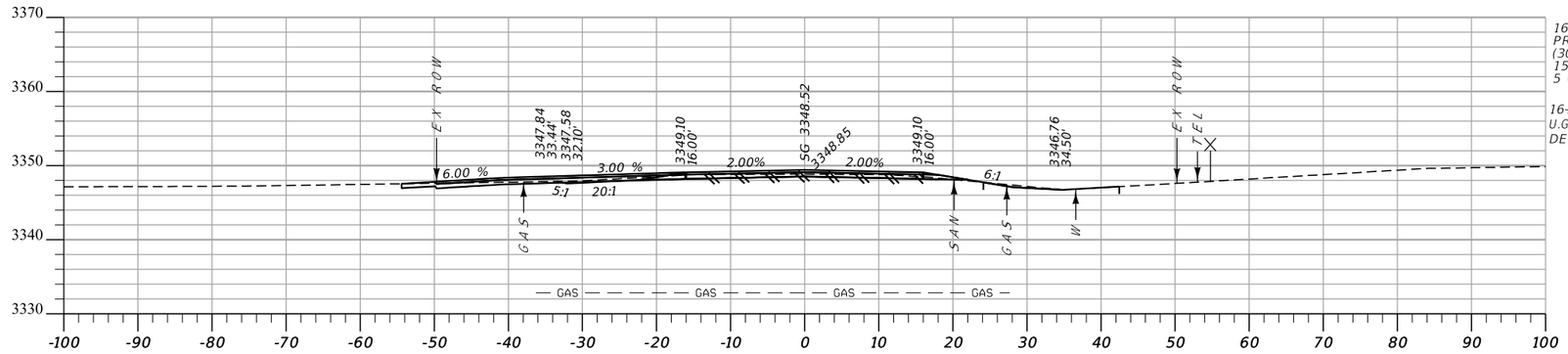
CUT: 25 CY **Sta. 15+25.00 R1** FILL: 0 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE 10/2/2020	MAINLINE CROSS SECTIONS		STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK 10/2/2020				
	3:09:06 PM CPS - U3530	CHECKED BY	CASCADE COUNTY		UPN 9532000	SHEET 8

DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6



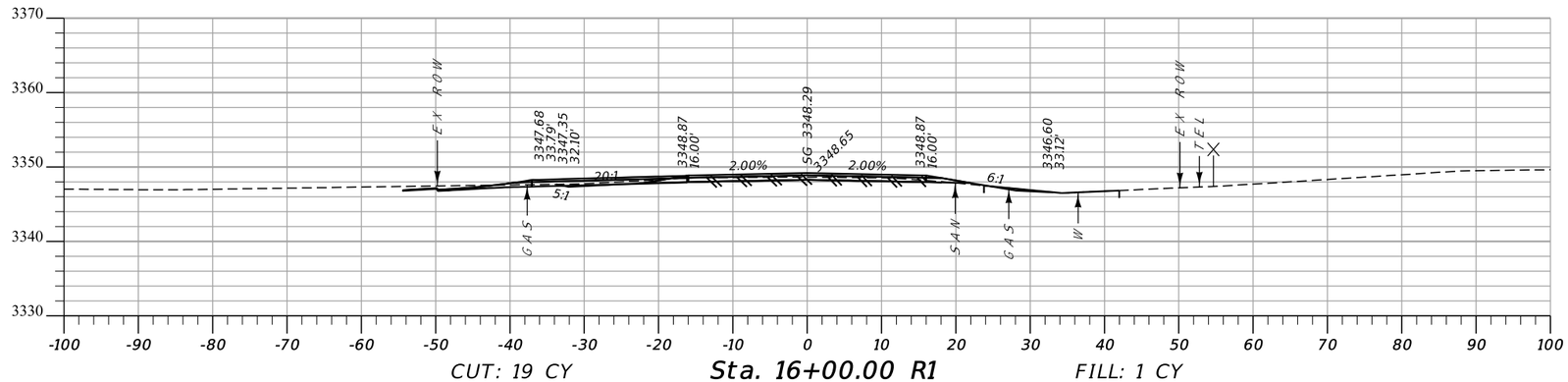
CUT: 22 CY **Sta. 16+50.00 R1** FILL: 0 CY



CUT: 16 CY **Sta. 16+20.00 R1** FILL: 0 CY

16+20
PRIVATE APP. LT.
(30' WIDE W/ TRUCK RADII)
15 CY EXC.
5 CY EMB.+

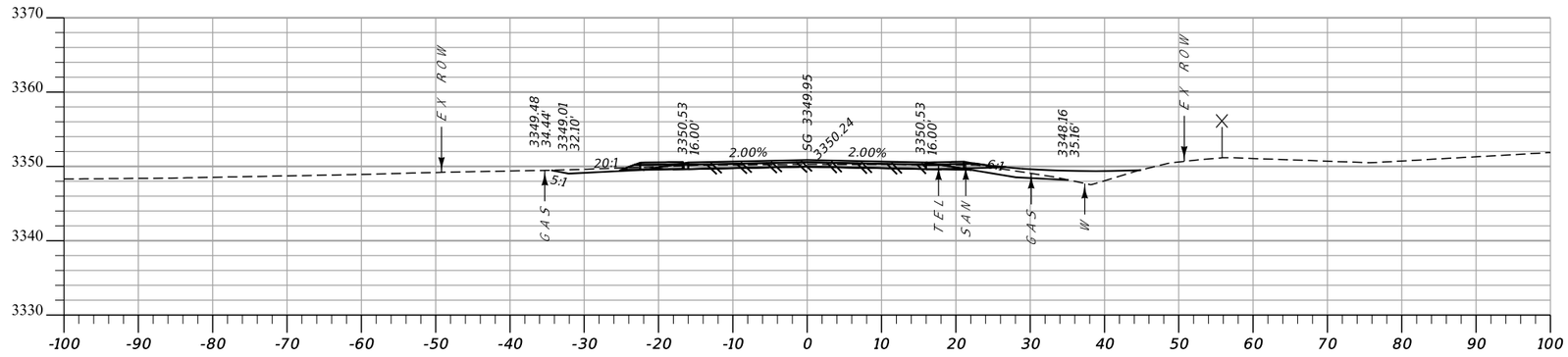
16+25
U.G. GAS. X-ING
DEPTH UNKNOWN



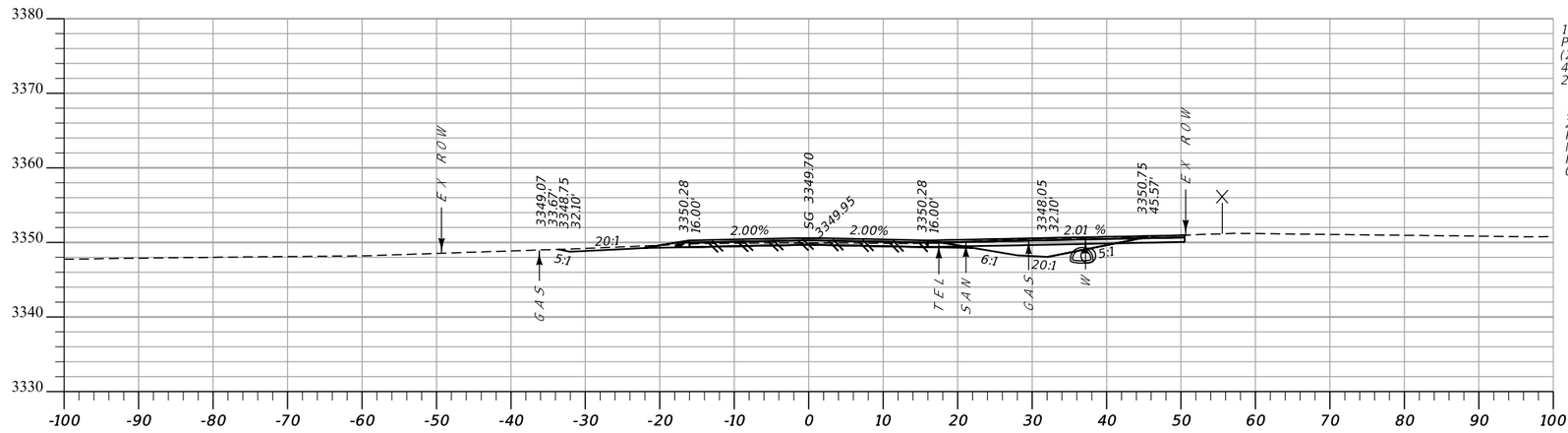
CUT: 19 CY **Sta. 16+00.00 R1** FILL: 1 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:09:13 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 9

DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6



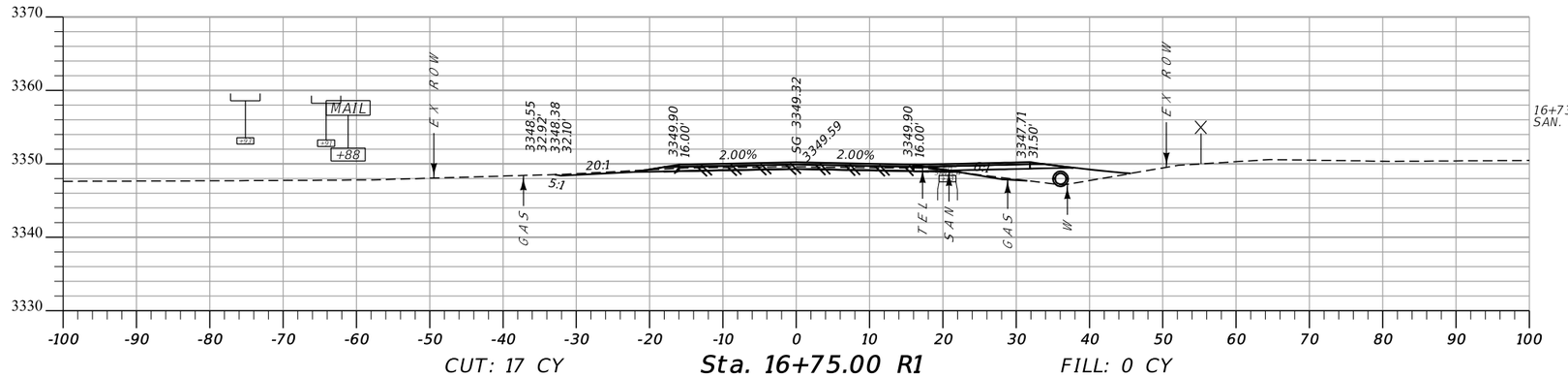
CUT: 38 CY **Sta. 17+25.00 R1** FILL: 0 CY



CUT: 37 CY **Sta. 17+02.00 R1** FILL: 0 CY

17+02
PRIVATE APP. RT.
(26' WIDE W/ TRUCK RADII)
40 CY EXC.
25 CY EMB.+

17+02
24" RCP IN PL. RT.
REMOVE
NEW 28 1/2" X 18" X 64' RCPA
FETS LT. & RT.
0.7' COVER

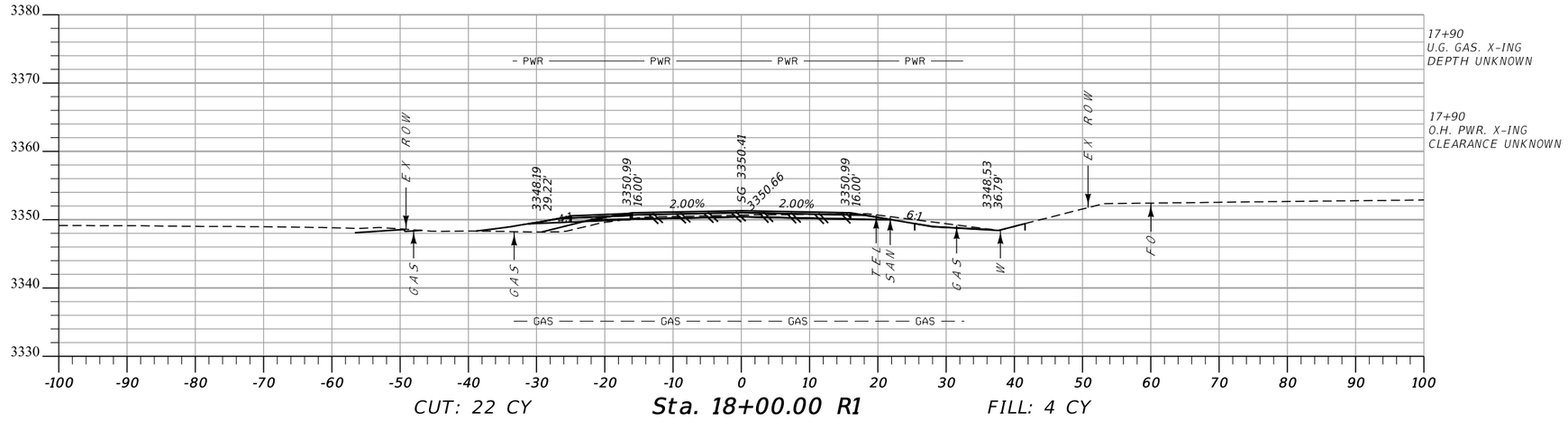


CUT: 17 CY **Sta. 16+75.00 R1** FILL: 0 CY

16+73 20' RT.
SAN. SEWER MANHOLE-ADJ. TO GRADE

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK	10/2/2020	CASCADE COUNTY	UPN 9532000	SHEET 10
	3:09:20 PM CPS - U3530	CHECKED BY				

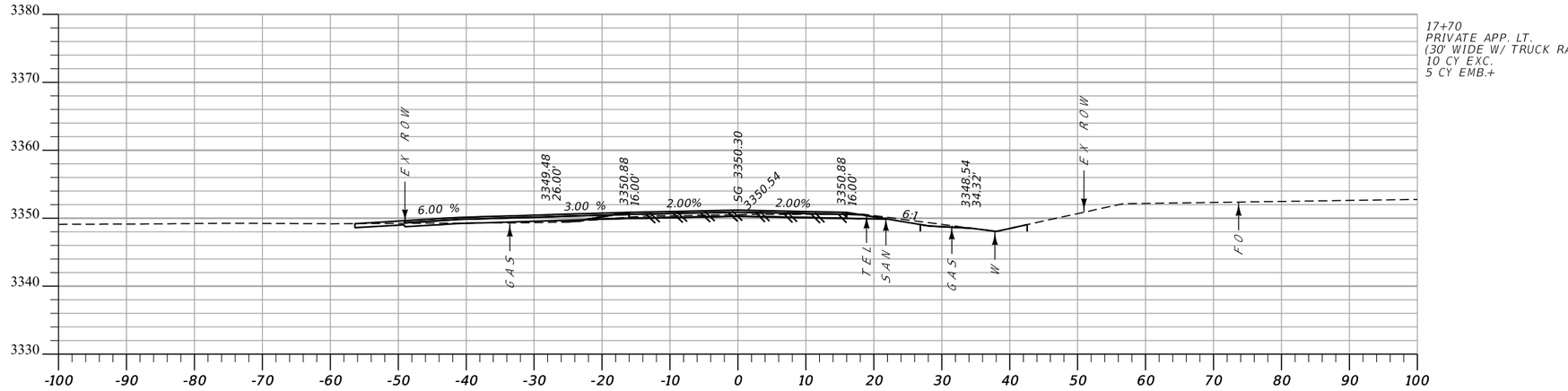
DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6



17+90
U.G. GAS. X-ING
DEPTH UNKNOWN

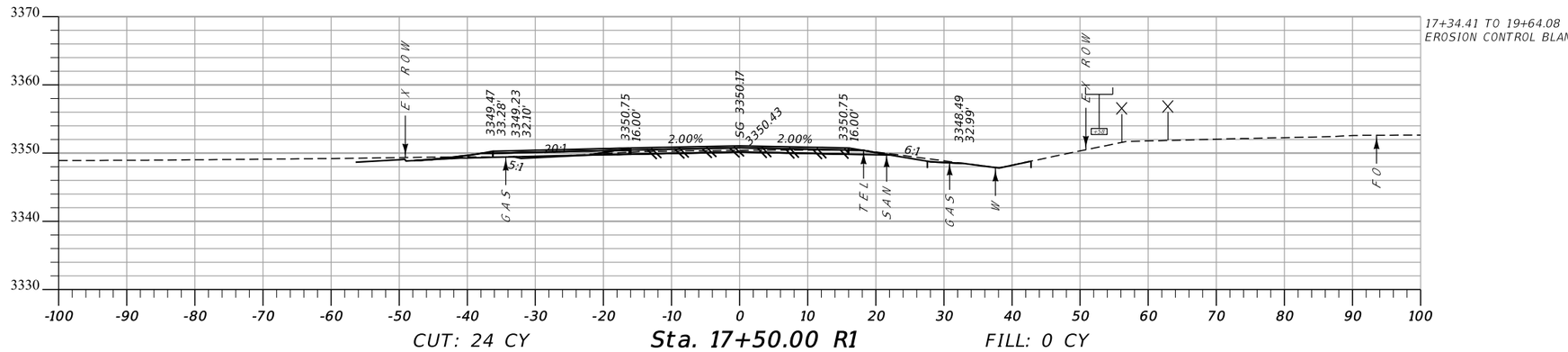
17+90
O.H. PWR. X-ING
CLEARANCE UNKNOWN

CUT: 22 CY **Sta. 18+00.00 R1** FILL: 4 CY



17+70
PRIVATE APP. LT.
(30' WIDE W/ TRUCK RADII)
10 CY EXC.
5 CY EMB.+

CUT: 14 CY **Sta. 17+70.00 R1** FILL: 0 CY

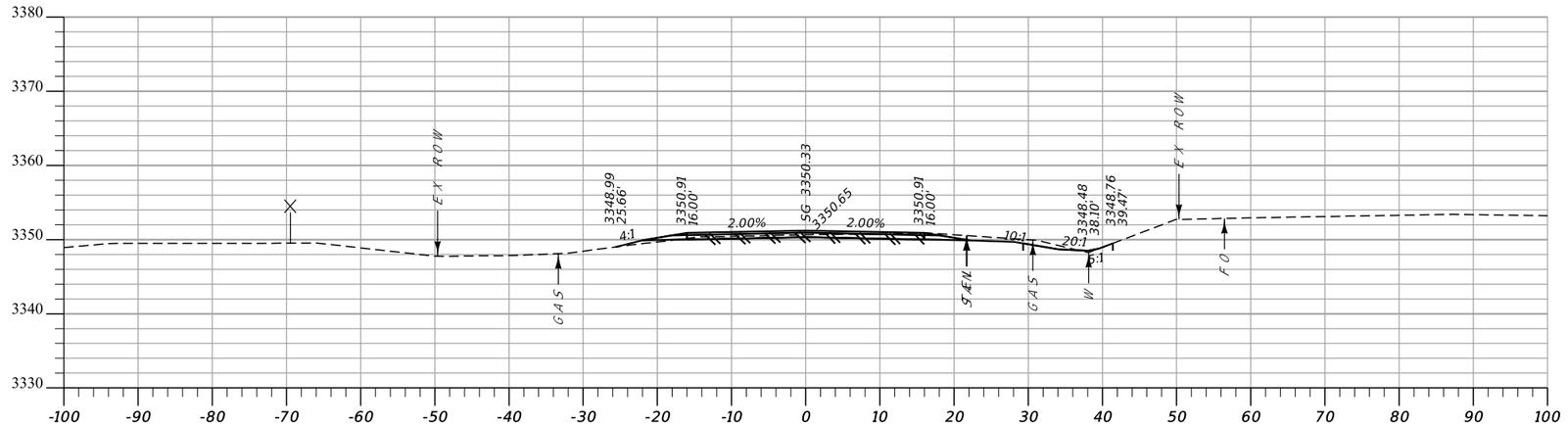


17+34.41 TO 19+64.08
EROSION CONTROL BLANKET LINED DT. RT.

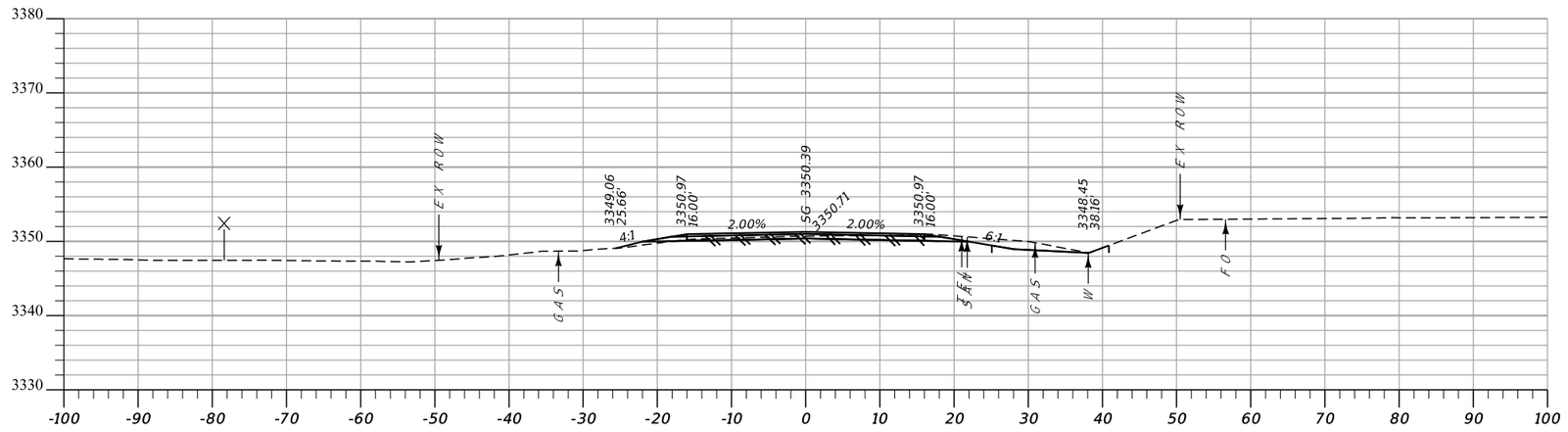
CUT: 24 CY **Sta. 17+50.00 R1** FILL: 0 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:09:27 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 11

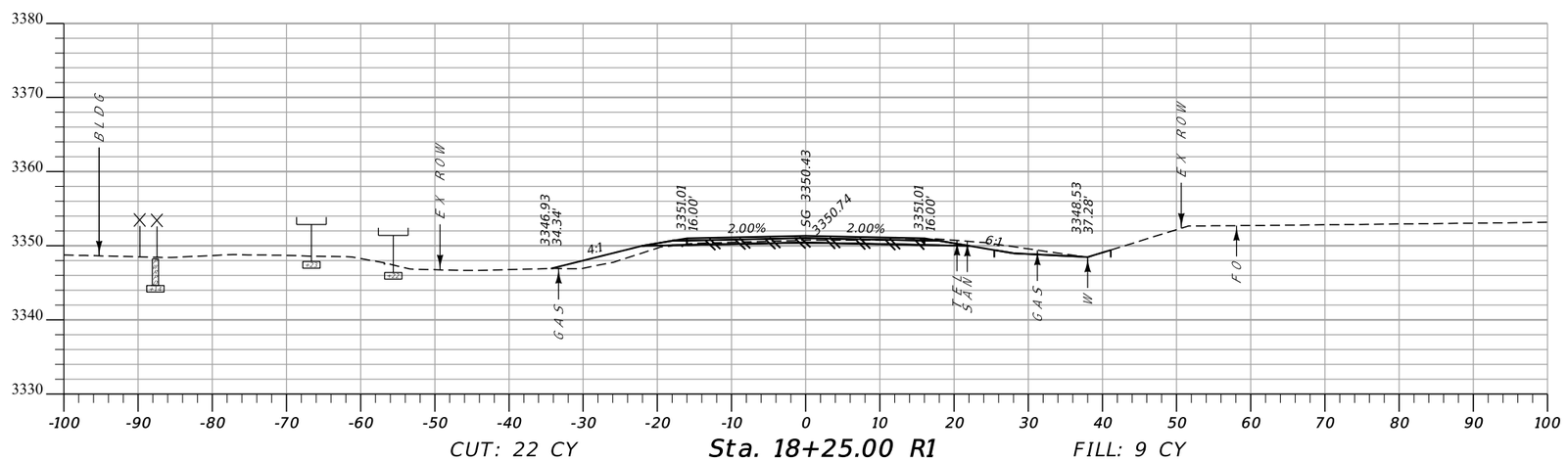
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CUT: 26 CY **Sta. 18+75.00 R1** FILL: 2 CY



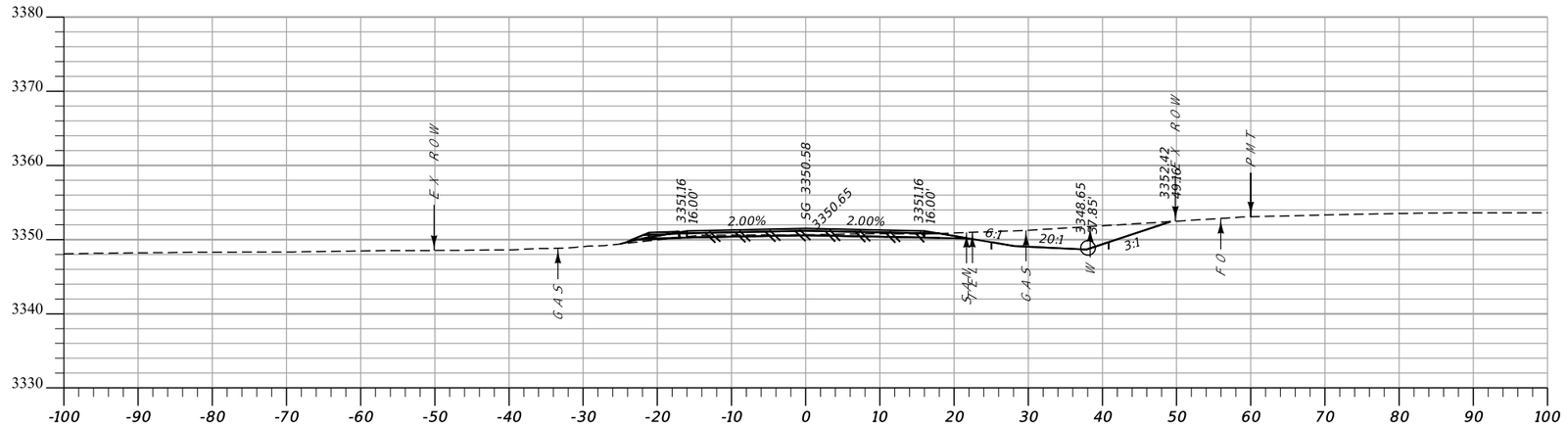
CUT: 26 CY **Sta. 18+50.00 R1** FILL: 7 CY



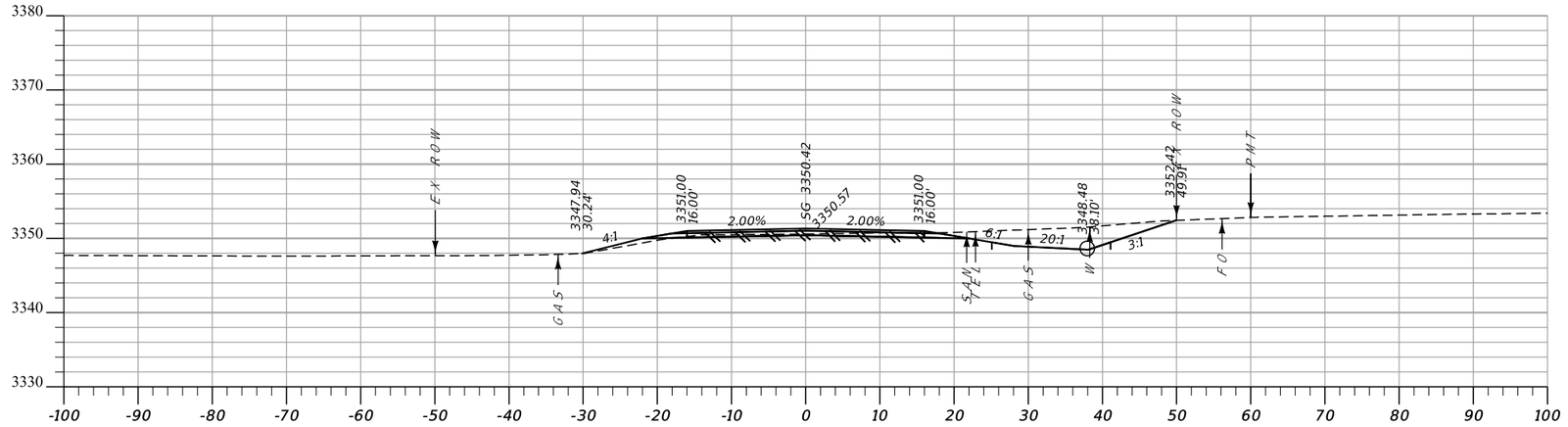
CUT: 22 CY **Sta. 18+25.00 R1** FILL: 9 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:09:35 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 12

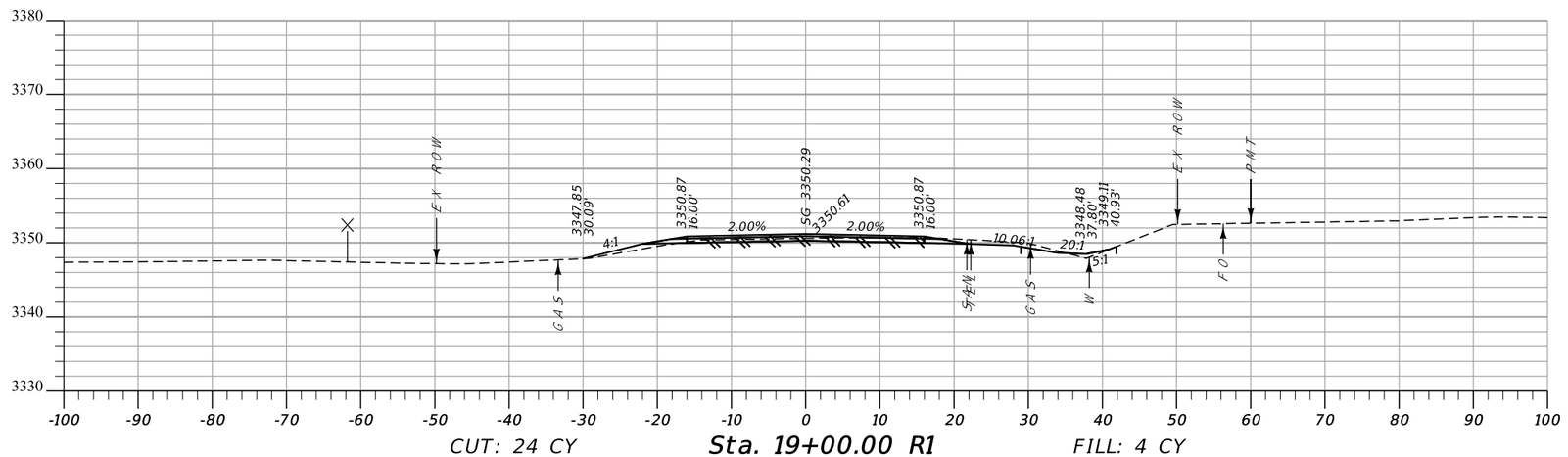
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CUT: 61 CY **Sta. 19+50.00 R1** FILL: 3 CY



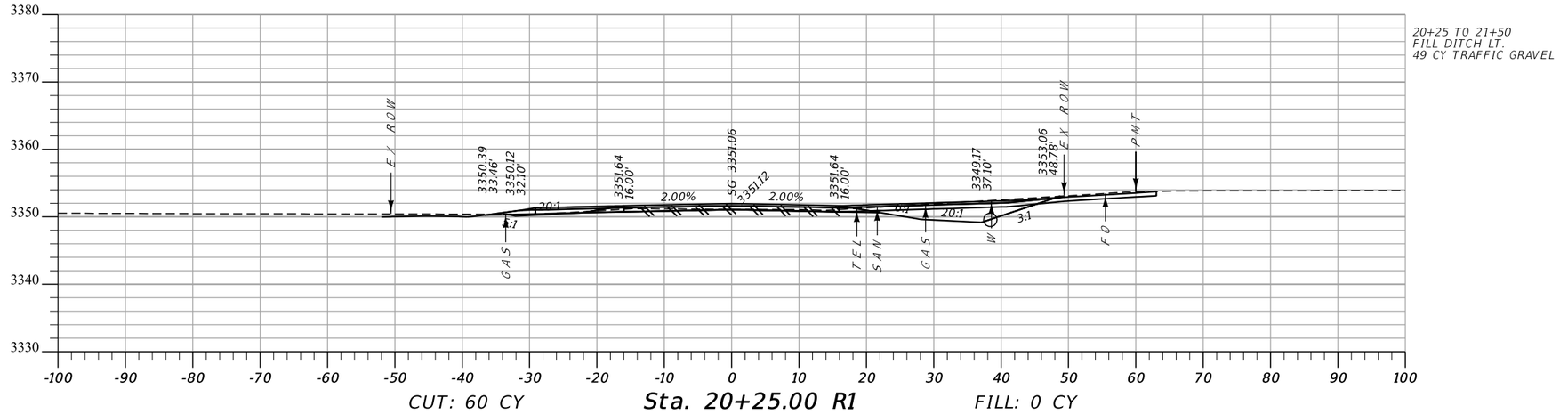
CUT: 43 CY **Sta. 19+25.00 R1** FILL: 5 CY



CUT: 24 CY **Sta. 19+00.00 R1** FILL: 4 CY

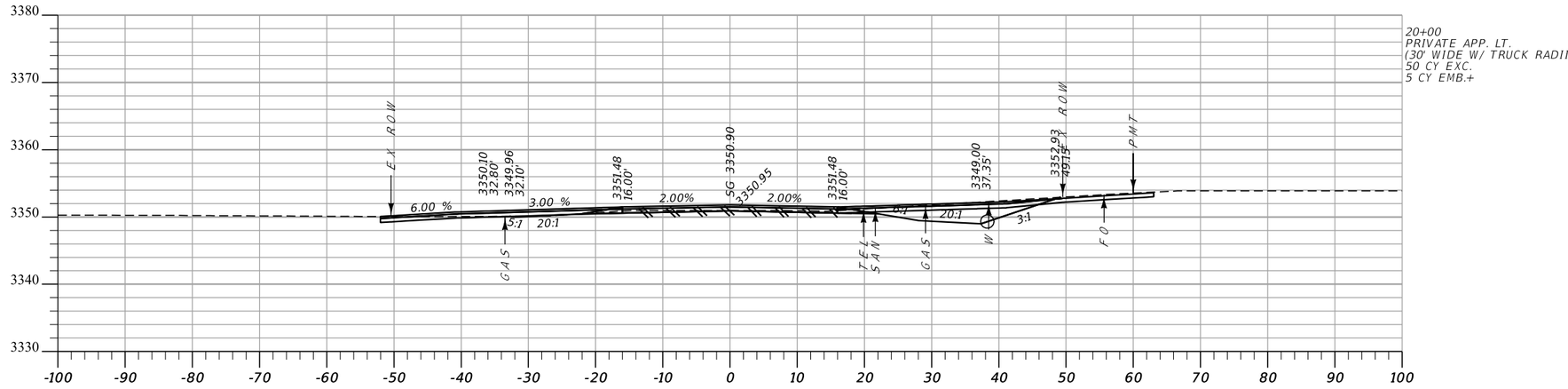
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:09:42 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 13

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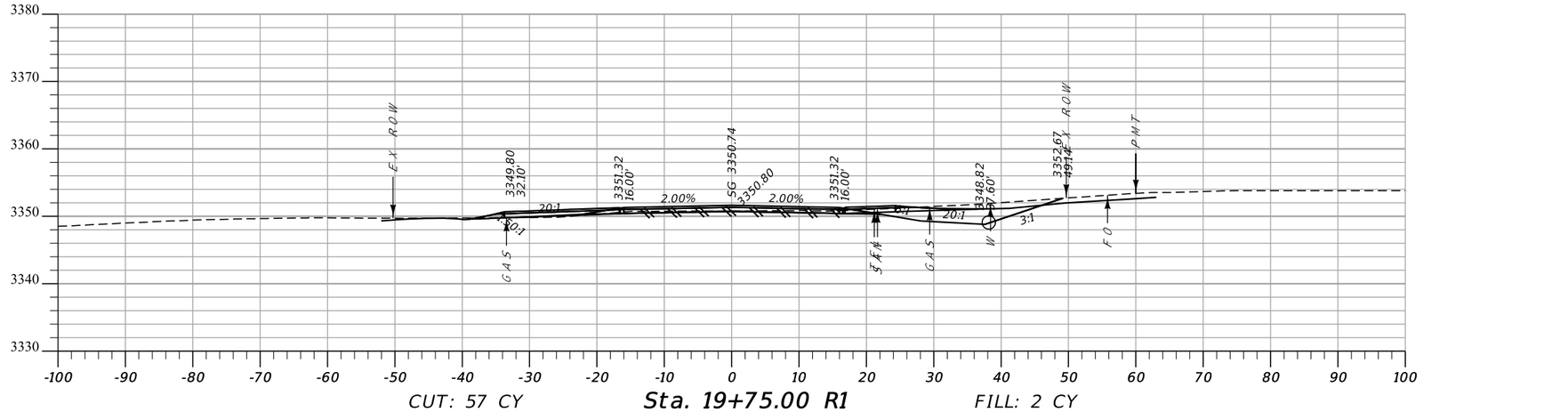
20+25 TO 21+50
FILL DITCH LT.
49 CY TRAFFIC GRAVEL

CUT: 60 CY **Sta. 20+25.00 R1** FILL: 0 CY



20+00
PRIVATE APP. LT.
(30' WIDE W/ TRUCK RADII)
50 CY EXC.
5 CY EMB.+

CUT: 58 CY **Sta. 20+00.00 R1** FILL: 1 CY

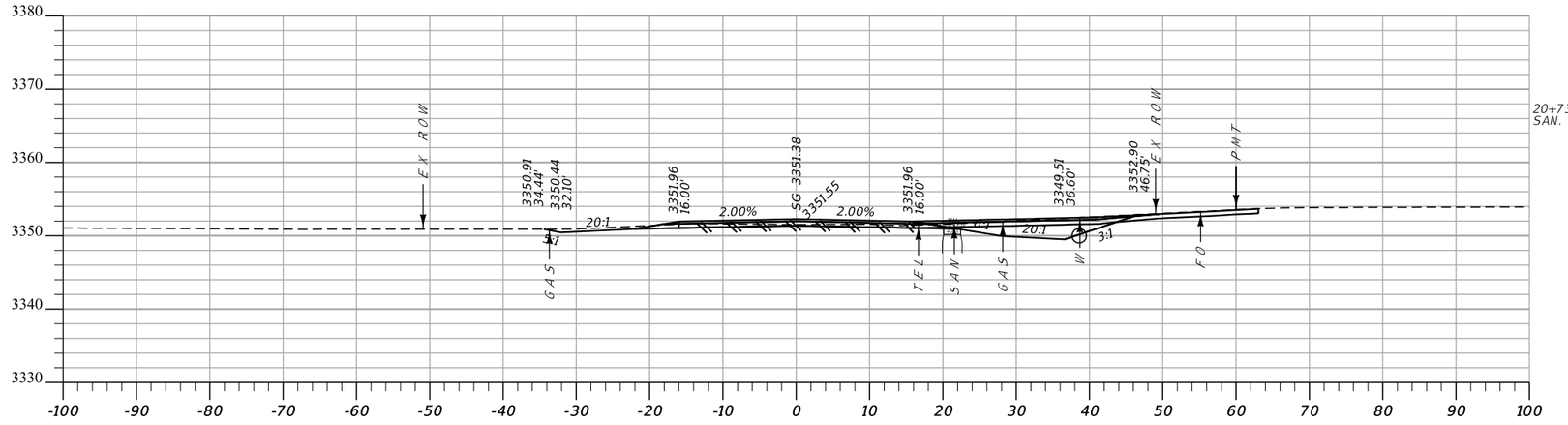


CUT: 57 CY **Sta. 19+75.00 R1** FILL: 2 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:09:49 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 14

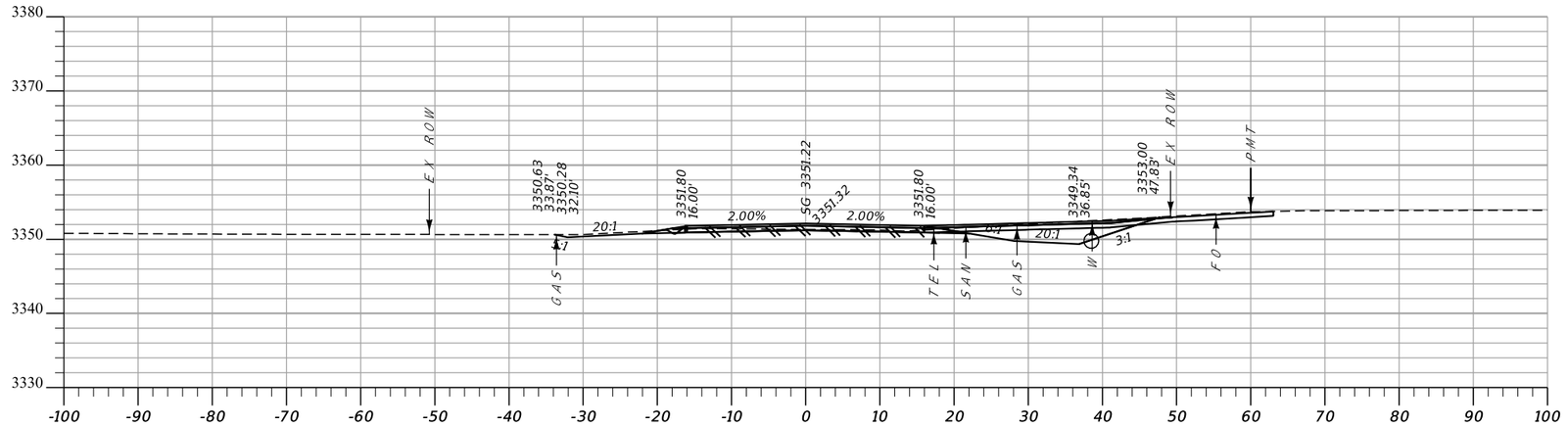
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AWARD COPY

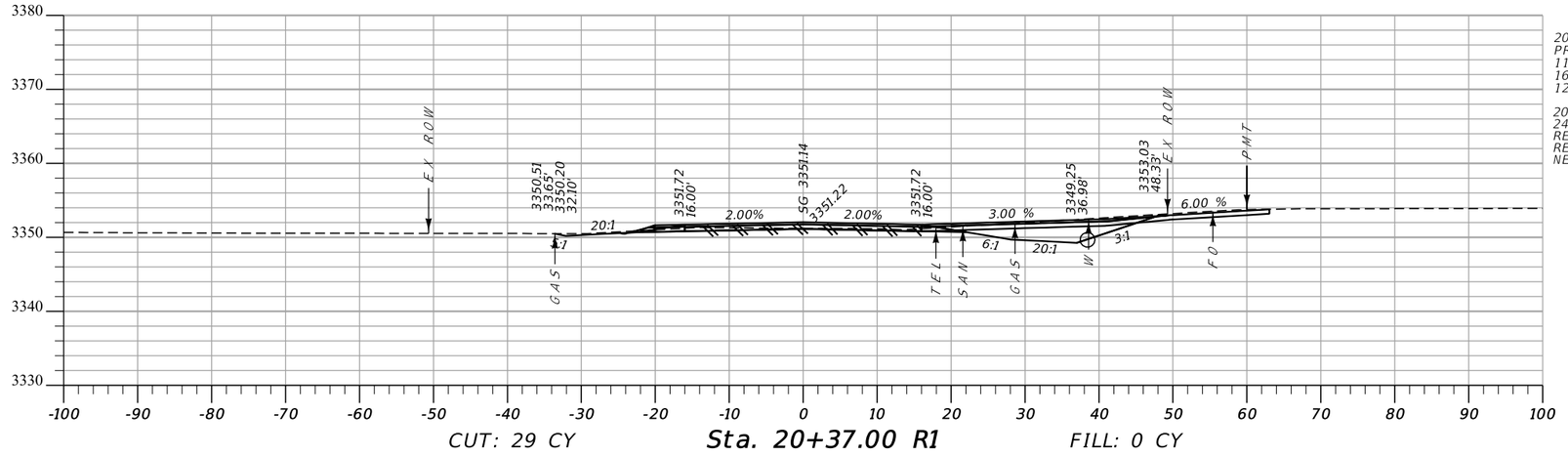


20+73 21' RT.
SAN. SEWER MANHOLE-ADJ. TO GRADE

CUT: 61 CY **Sta. 20+75.00 R1** FILL: 0 CY



CUT: 32 CY **Sta. 20+50.00 R1** FILL: 0 CY



20+37
PRIVATE APP. RT.
110' WIDE W/ 25' RADII
160 CY EXC.
125 CY EMB.+

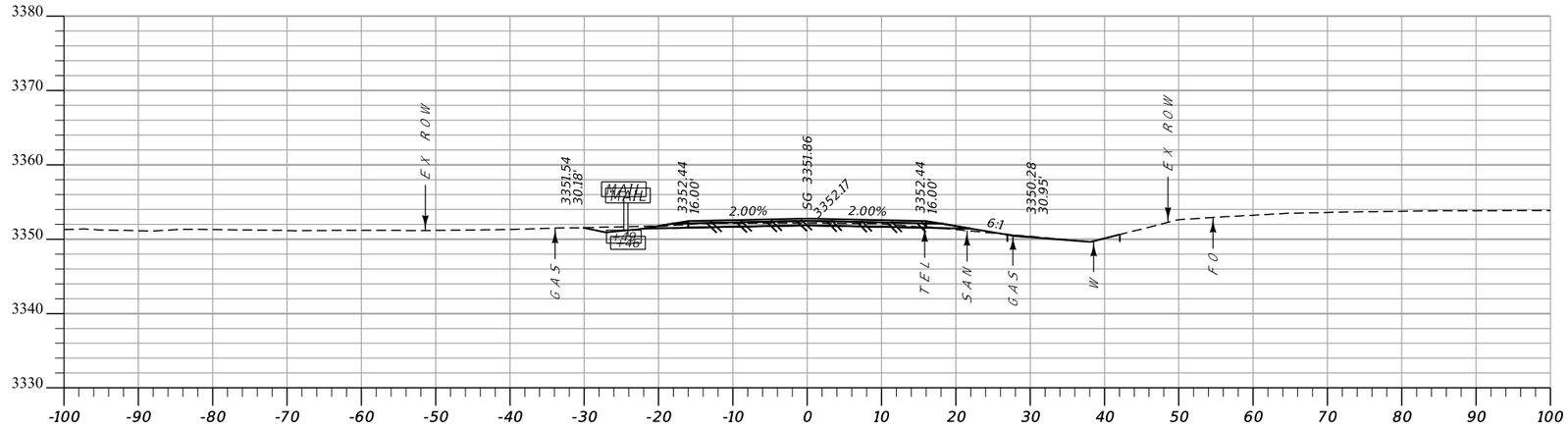
20+37
24" X 220' RCP APP. PIPE RT.
REMOVE 56' RT.
REMOVE 40' LT.
NEW FETS LT. & RT.

CUT: 29 CY **Sta. 20+37.00 R1** FILL: 0 CY

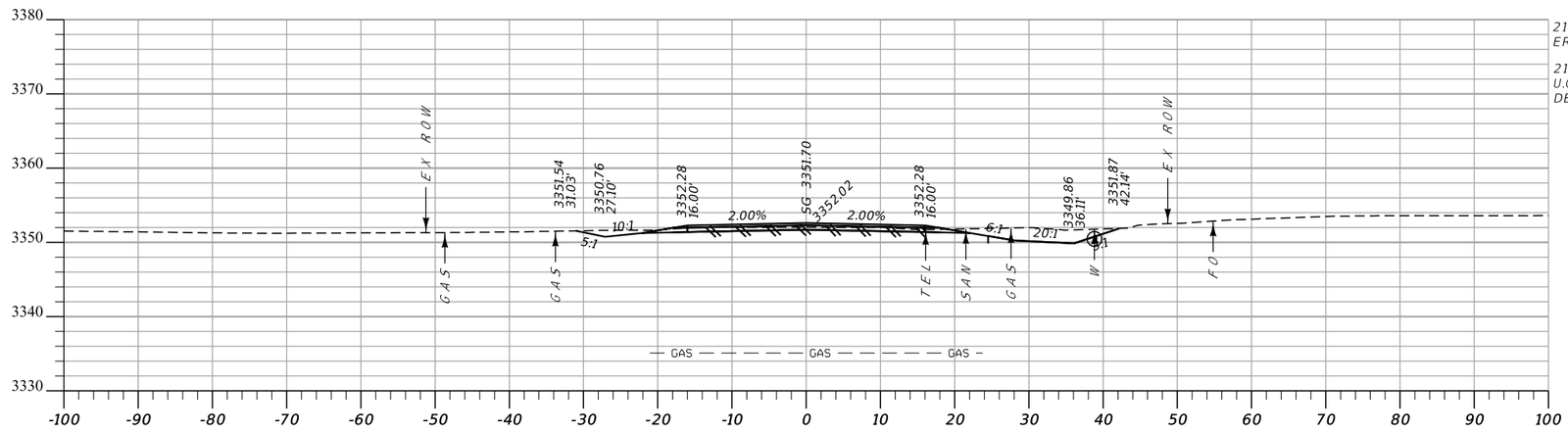
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:09:57 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 15

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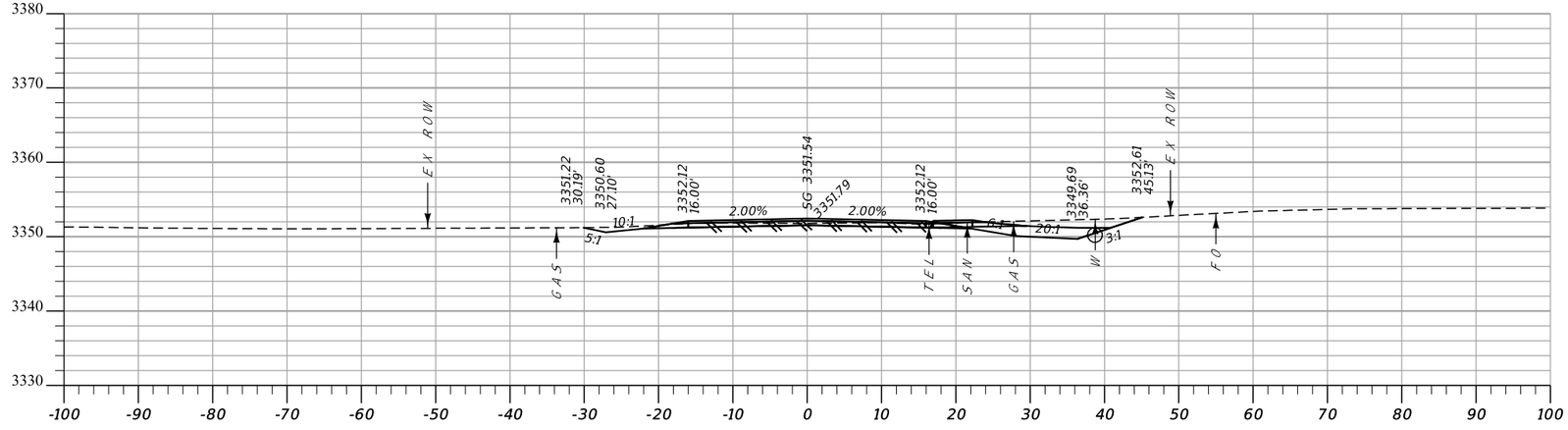
AWARD COPY



CUT: 32 CY **Sta. 21+50.00 R1** FILL: 1 CY



CUT: 52 CY **Sta. 21+25.00 R1** FILL: 0 CY



CUT: 59 CY **Sta. 21+00.00 R1** FILL: 0 CY

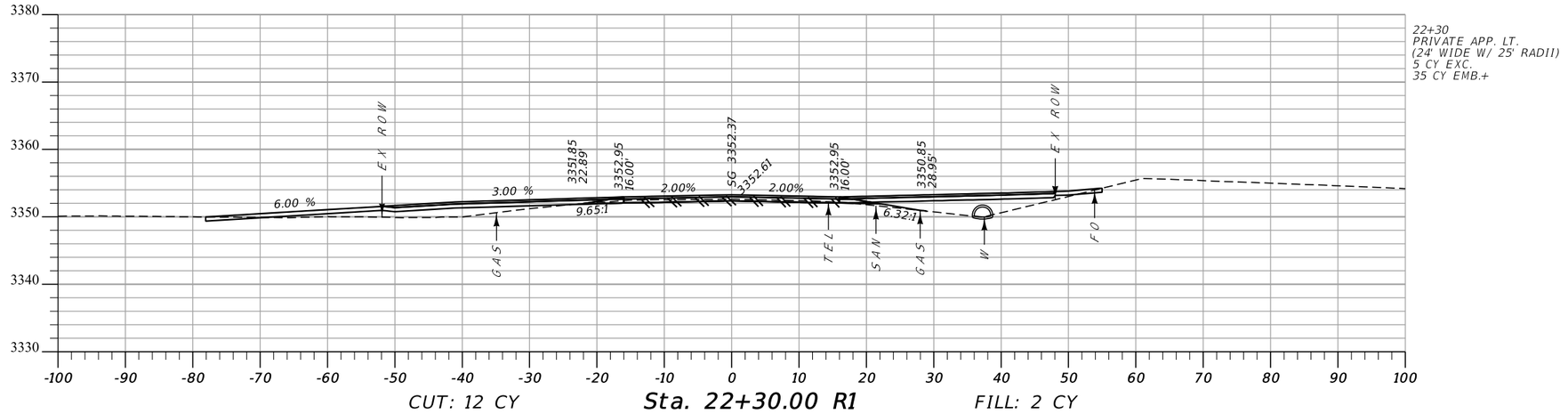
21+08.24 TO 21+98.21
EROSION CONTROL BLANKET LINED DT. RT.

21+14
U.G. GAS. X-ING
DEPTH UNKNOWN

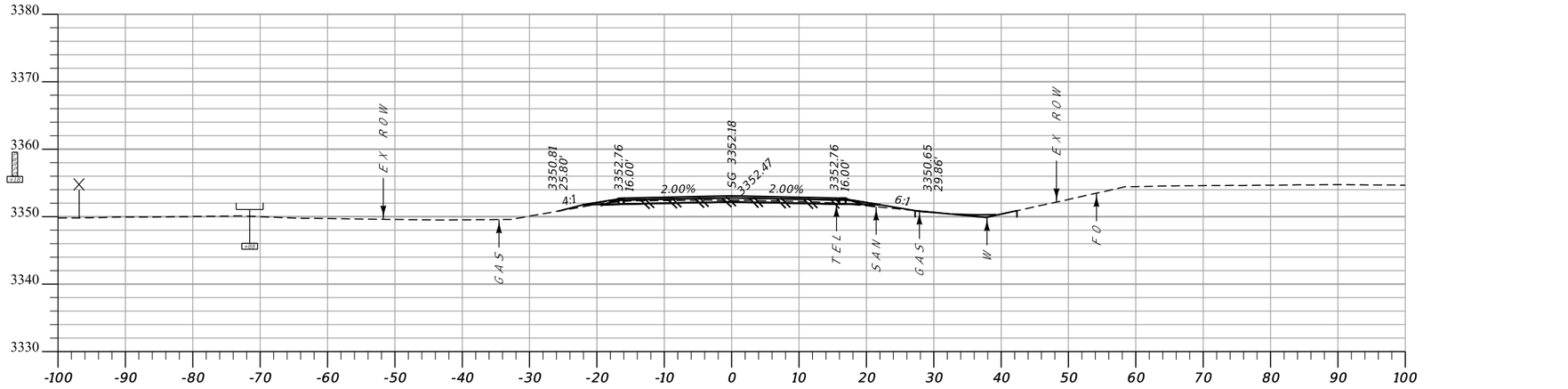
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS		STUCKEY ROAD-GREAT FALLS / CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:10:04 PM CPS - U3530	CHECKED BY			CASCADE COUNTY		UPN 9532000 / SHEET 16

DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6

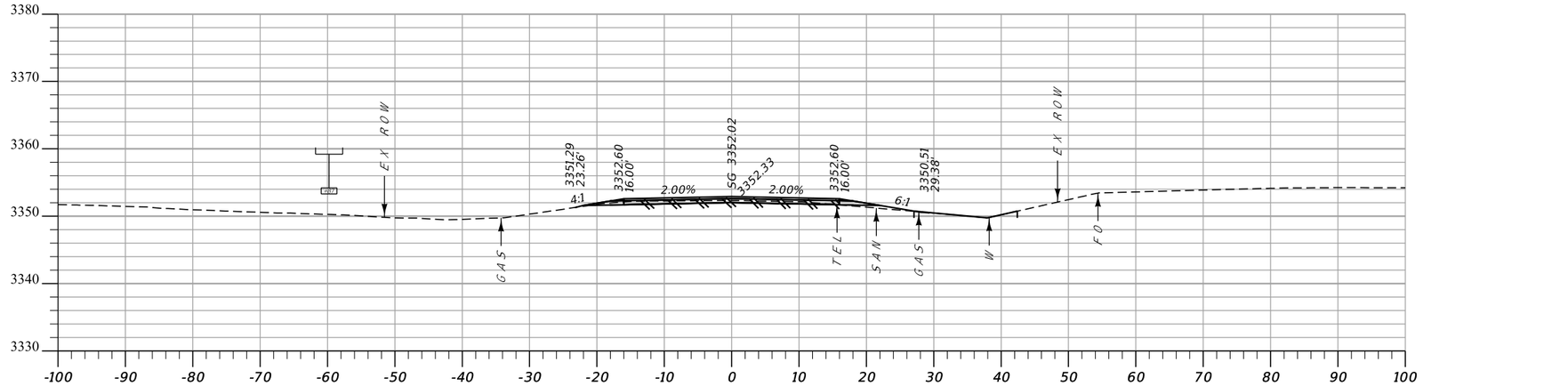
AWARD COPY



CUT: 12 CY **Sta. 22+30.00 R1** FILL: 2 CY



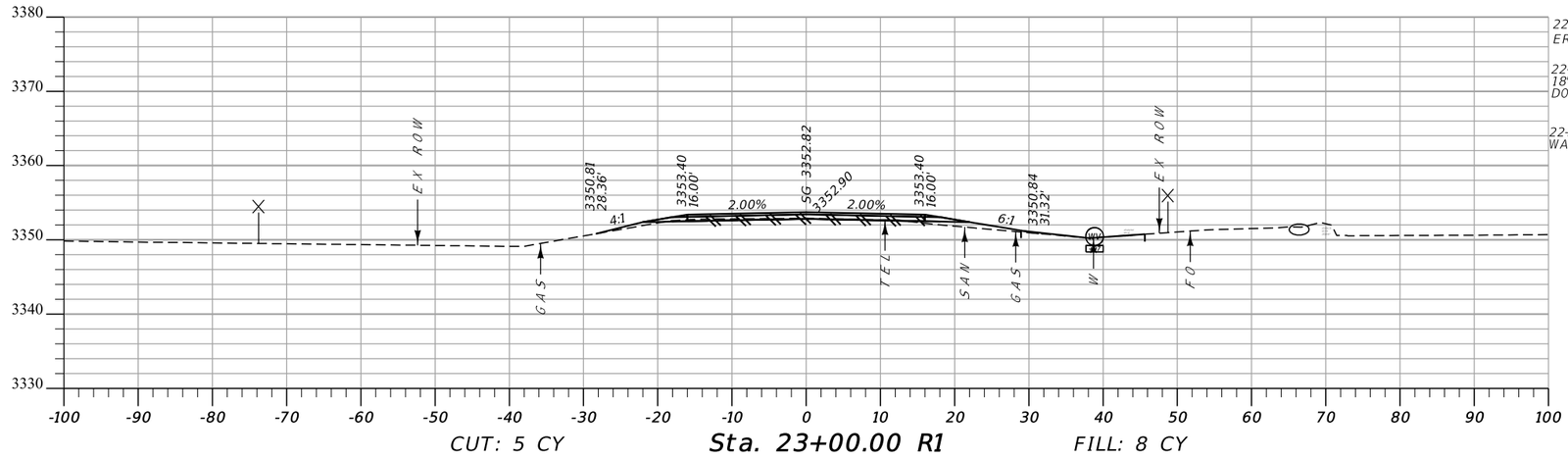
CUT: 11 CY **Sta. 22+00.00 R1** FILL: 2 CY



CUT: 14 CY **Sta. 21+75.00 R1** FILL: 2 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK	10/2/2020			
	3:10:11 PM CPS - U3530	CHECKED BY		CASCADE COUNTY	UPN 9532000	SHEET 17

DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6

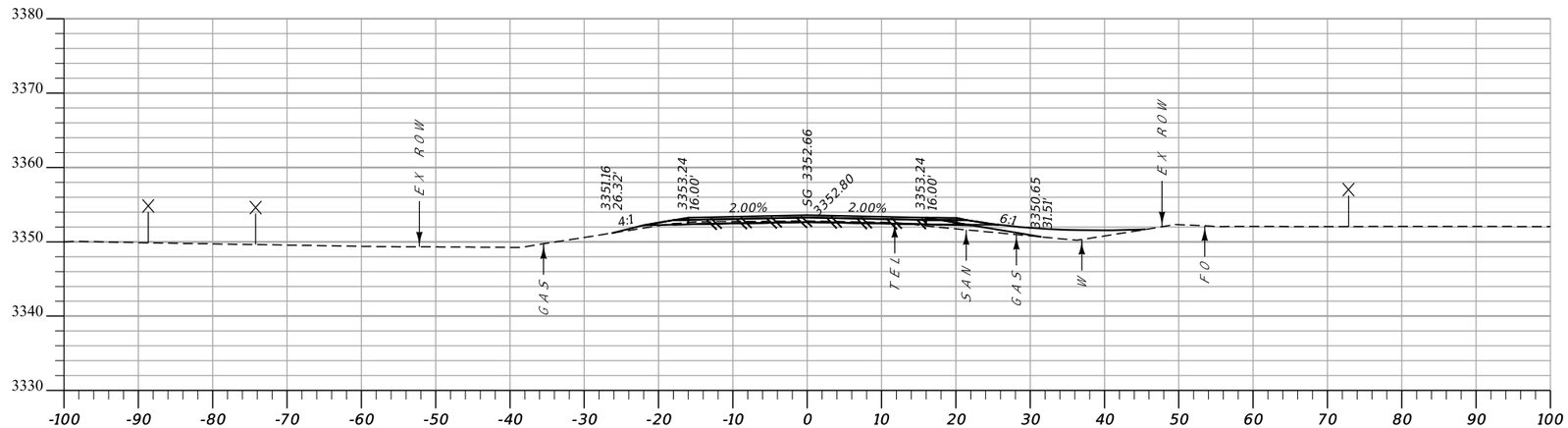


CUT: 5 CY **Sta. 23+00.00 R1** FILL: 8 CY

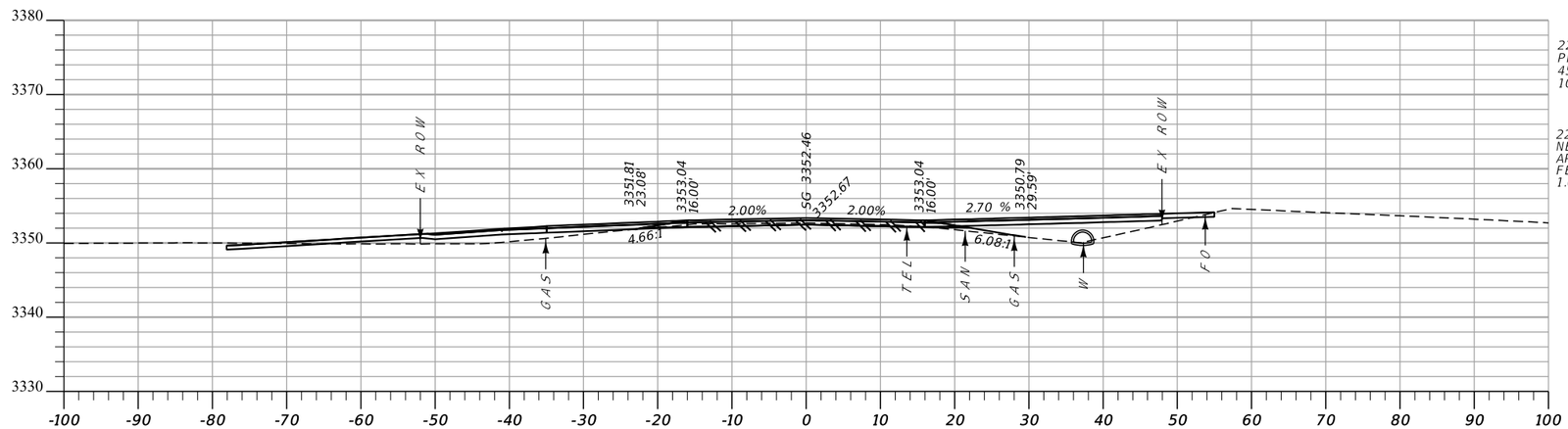
22+83.04 TO 23+90.98
EROSION CONTROL BLANKET LINED DT. RT.

22+93
18" X 32' CSP IN PL. RT.
DO NOT DISTURB

22+96 39' RT.
WATER VALVE BOX-DO NOT DISTURB



CUT: 8 CY **Sta. 22+75.00 R1** FILL: 6 CY

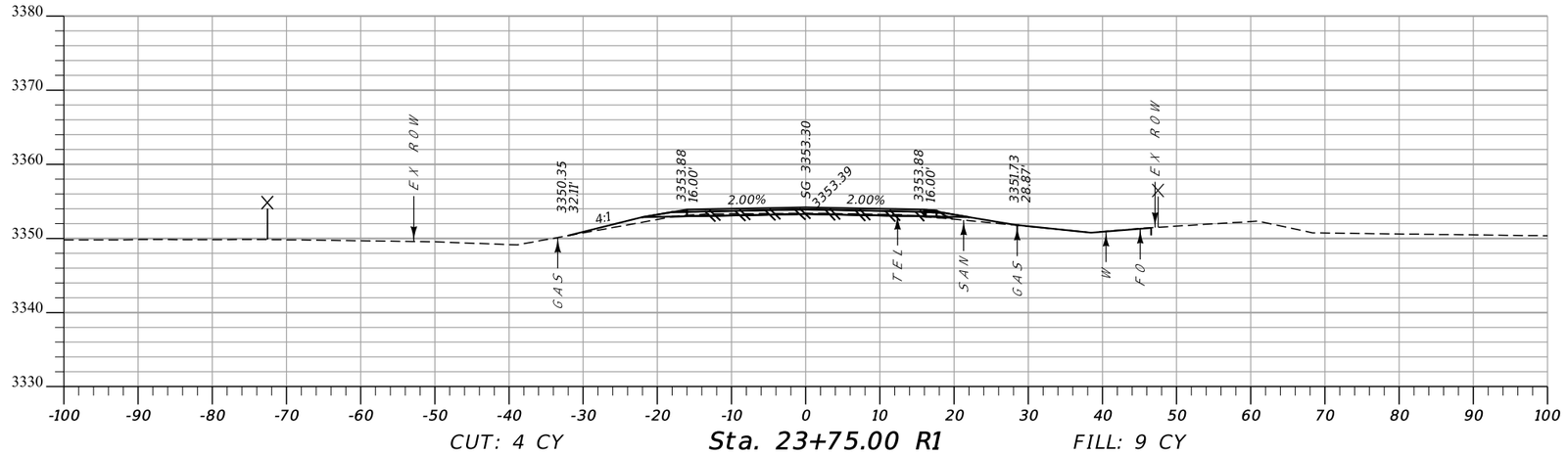


CUT: 5 CY **Sta. 22+44.00 R1** FILL: 1 CY

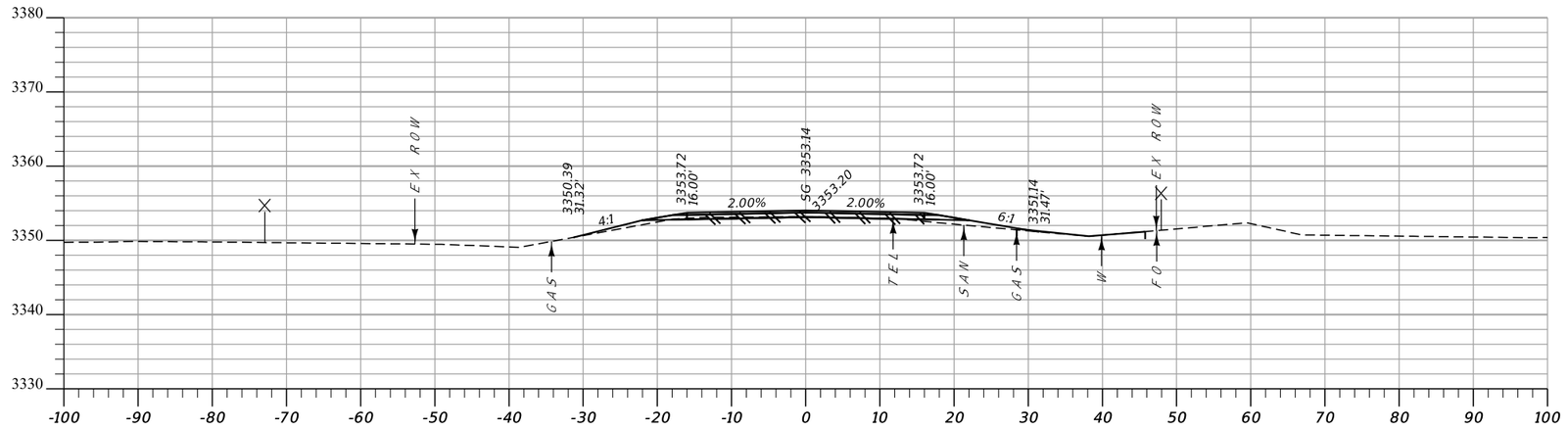
22+44
PRIVATE APP. RT.
45' WIDE W/ 25' RADII
105 CY EMB.+

22+44
NEW 28 1/2" X 18" X 76' RCPA
APP. PIPE RT.
FETS LT. & RT.
1.0' COVER

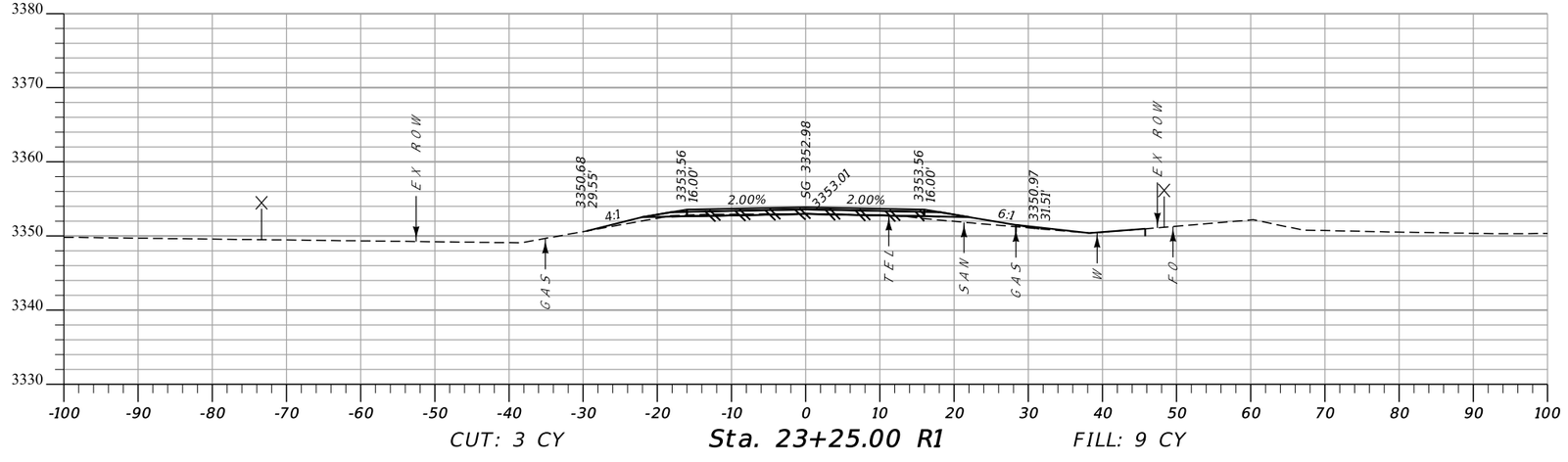
DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6



CUT: 4 CY **Sta. 23+75.00 R1** FILL: 9 CY



CUT: 3 CY **Sta. 23+50.00 R1** FILL: 10 CY

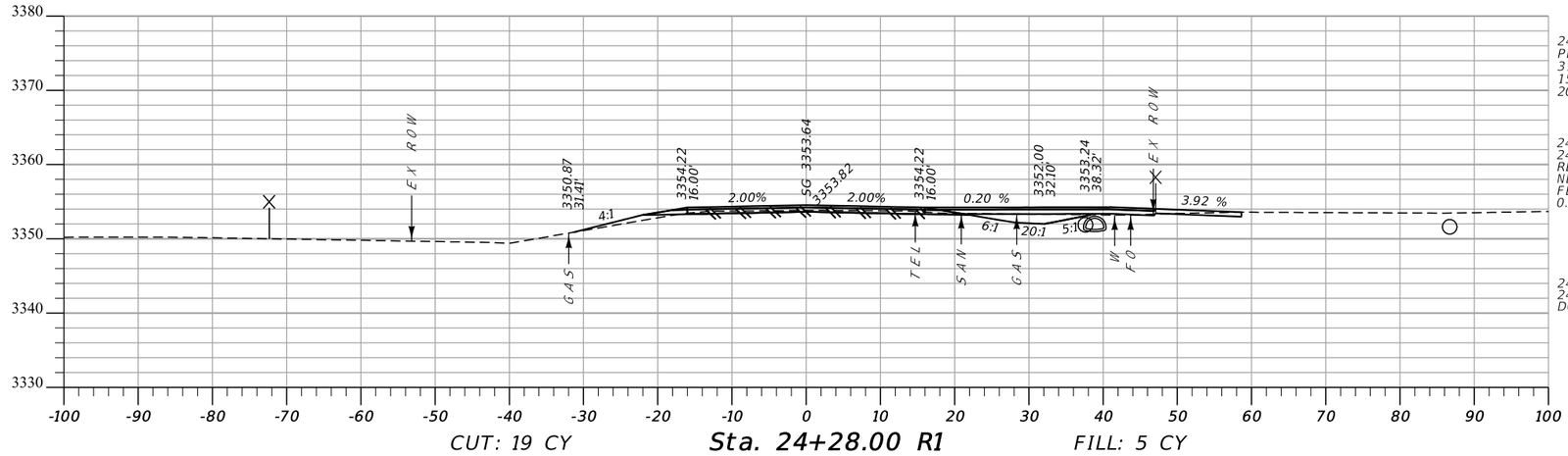


CUT: 3 CY **Sta. 23+25.00 R1** FILL: 9 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:10:26 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 19

DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6

AWARD COPY

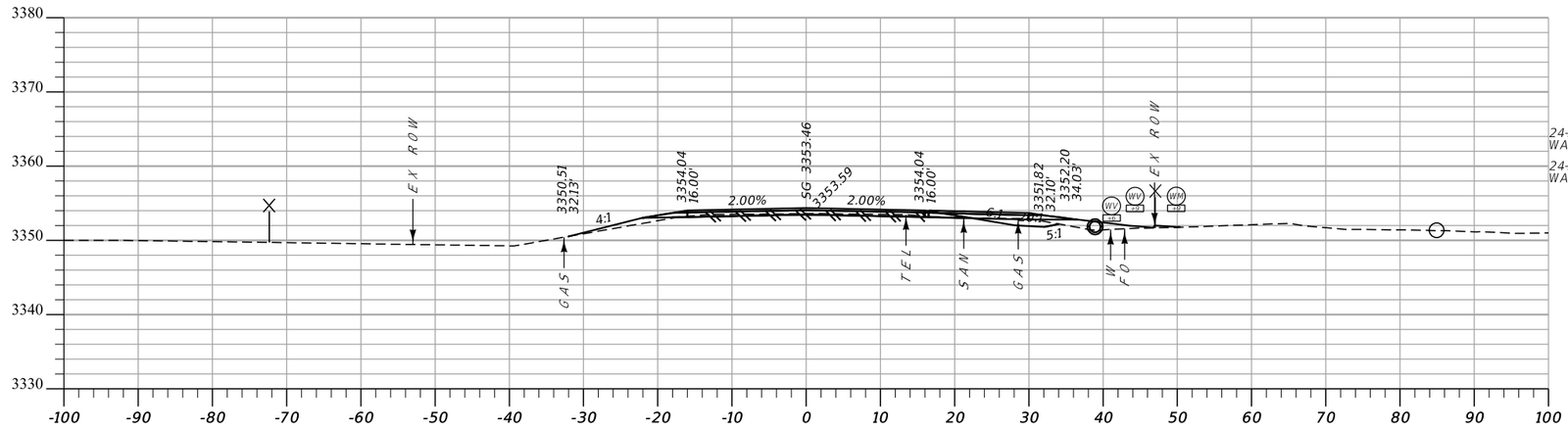


24+28
PRIVATE APP. RT.
31' WIDE W/ TRUCK RADII
15 CY EXC.
20 CY EMB.+

24+28
24" RCP APP. PIPE RT.
REMOVE
NEW 28 1/2" X 18" X 64' RCPA
FETS LT. & RT.
0.5' COVER

24+28
24" CSP APP. PIPE 87' RT.
DO NOT DISTURB

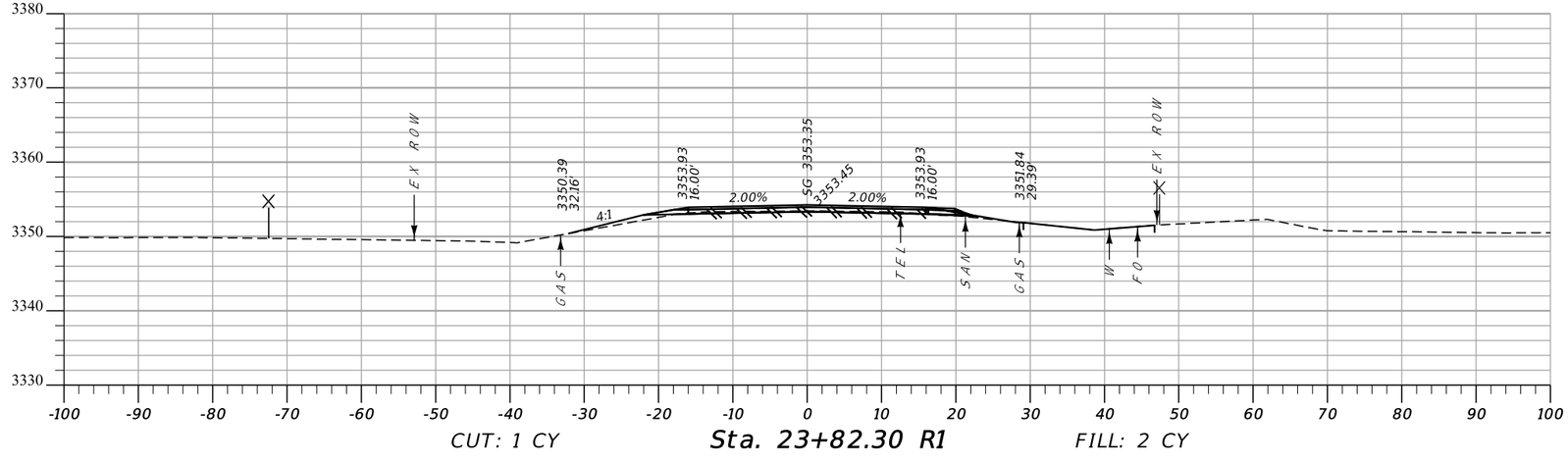
CUT: 19 CY **Sta. 24+28.00 R1** FILL: 5 CY



24+05 41' RT.
WATER VALVE BOX-ADJ. TO GRADE

24+09 44' RT.
WATER VALVE BOX W/ METER -ADJ. TO GRADE

CUT: 6 CY **Sta. 24+00.00 R1** FILL: 4 CY

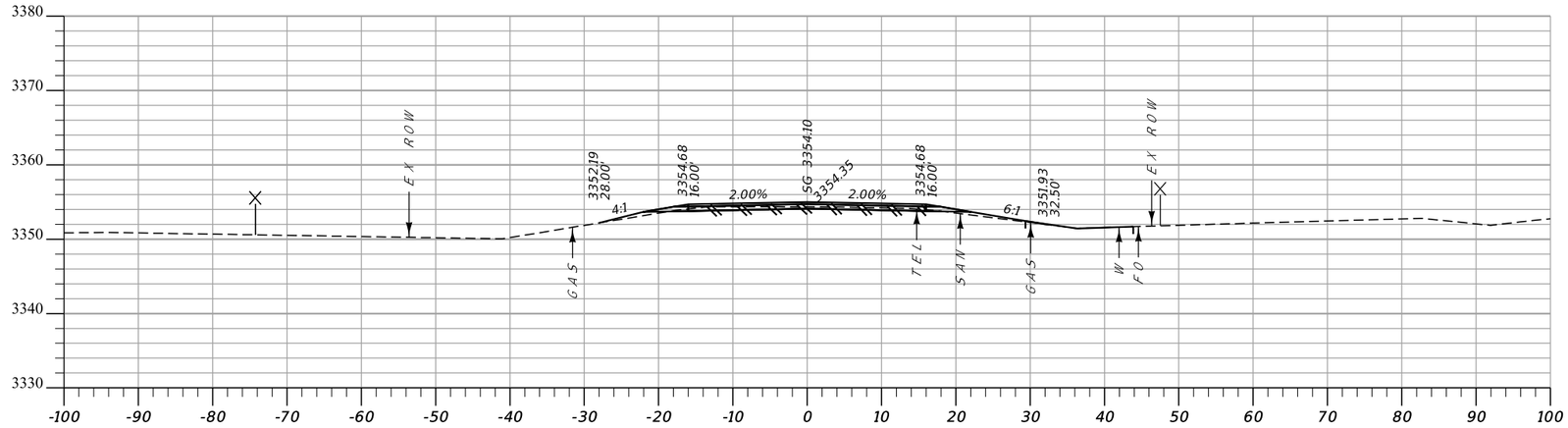


CUT: 1 CY **Sta. 23+82.30 R1** FILL: 2 CY

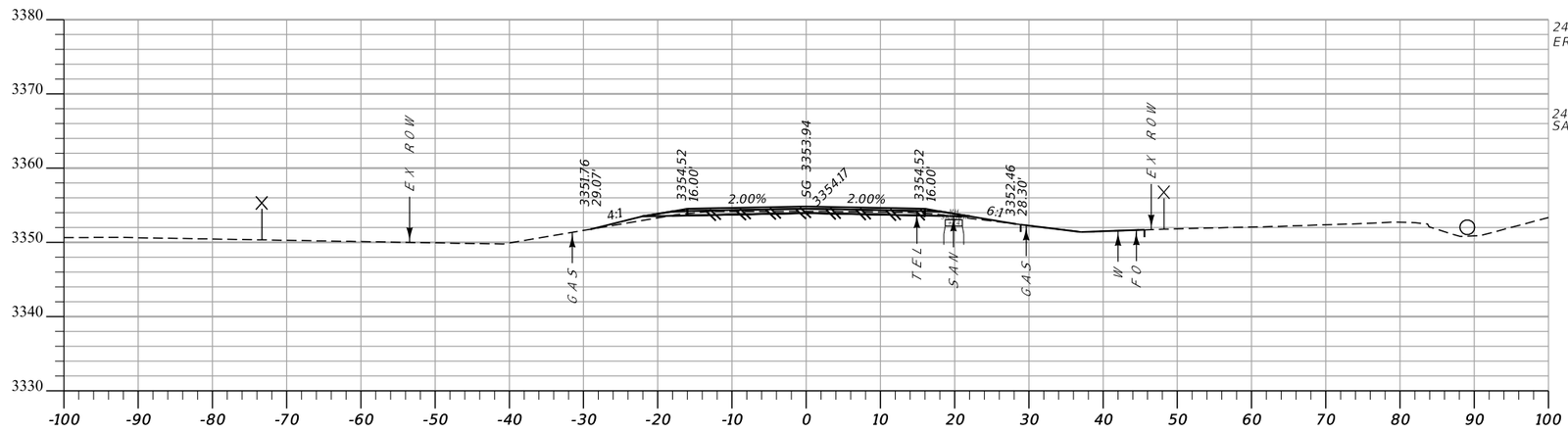
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS / CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK	10/2/2020		
	3:10:33 PM CPS - U3530	CHECKED BY		CASCADE COUNTY	UPN 9532000 / SHEET 20

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AWARD COPY



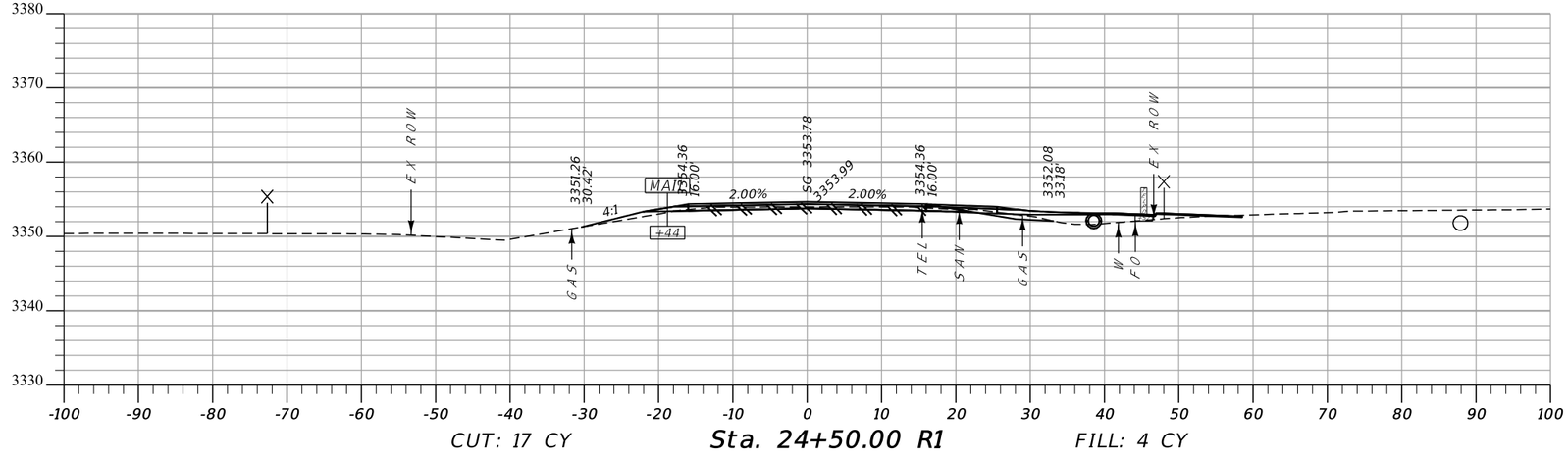
CUT: 11 CY **Sta. 25+00.00 R1** FILL: 4 CY



CUT: 14 CY **Sta. 24+75.00 R1** FILL: 4 CY

24+60.78 TO 26+69.19
EROSION CONTROL BLANKET LINED DT. RT.

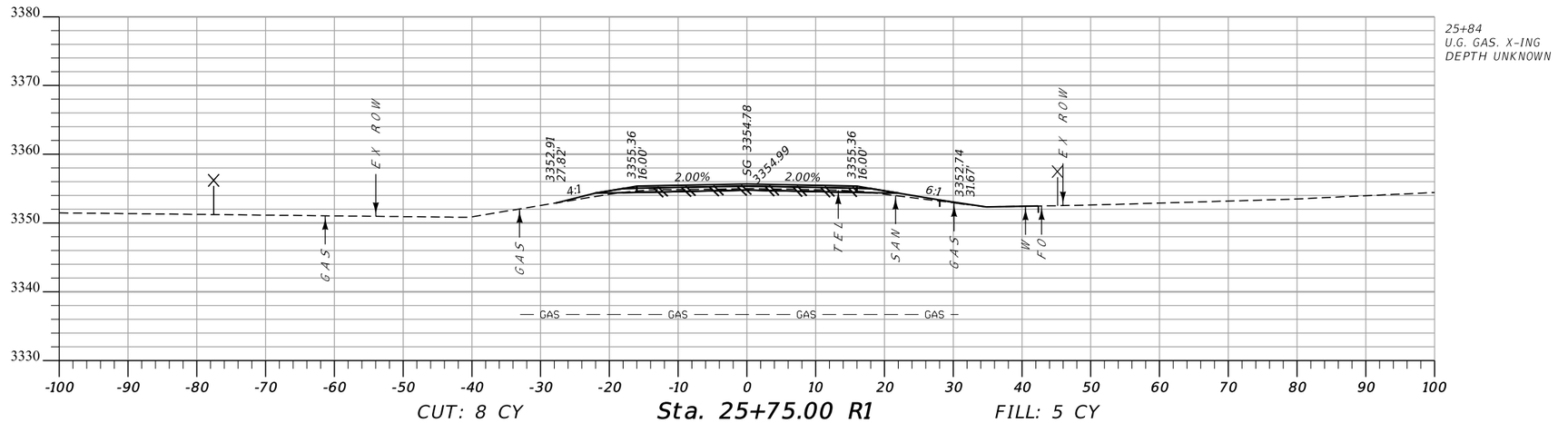
24+73 20' RT.
SAN. SEWER MANHOLE-ADJ. TO GRADE



CUT: 17 CY **Sta. 24+50.00 R1** FILL: 4 CY

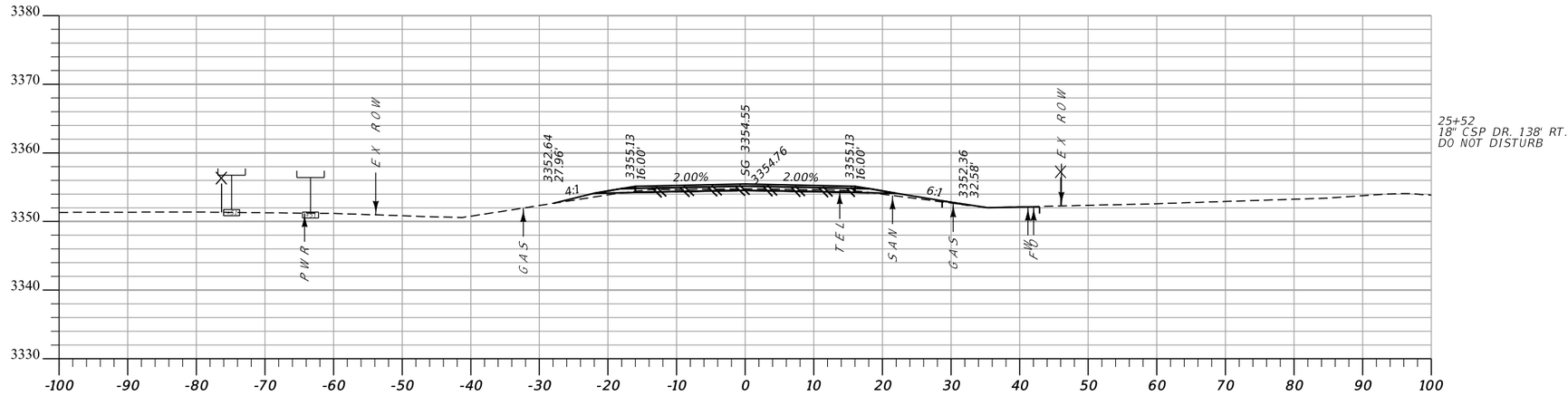
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK	10/2/2020			
	3:10:40 PM CPS - U3530	CHECKED BY		CASCADE COUNTY	UPN 9532000	SHEET 21

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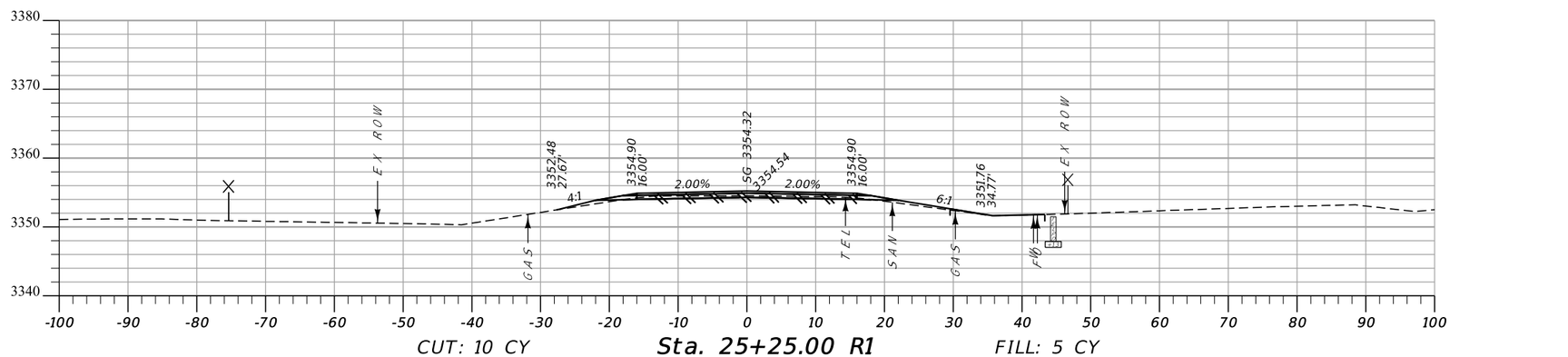
25+84
U.G. GAS. X-ING
DEPTH UNKNOWN

CUT: 8 CY **Sta. 25+75.00 R1** FILL: 5 CY



25+52
18" CSP DR. 138' RT.
DO NOT DISTURB

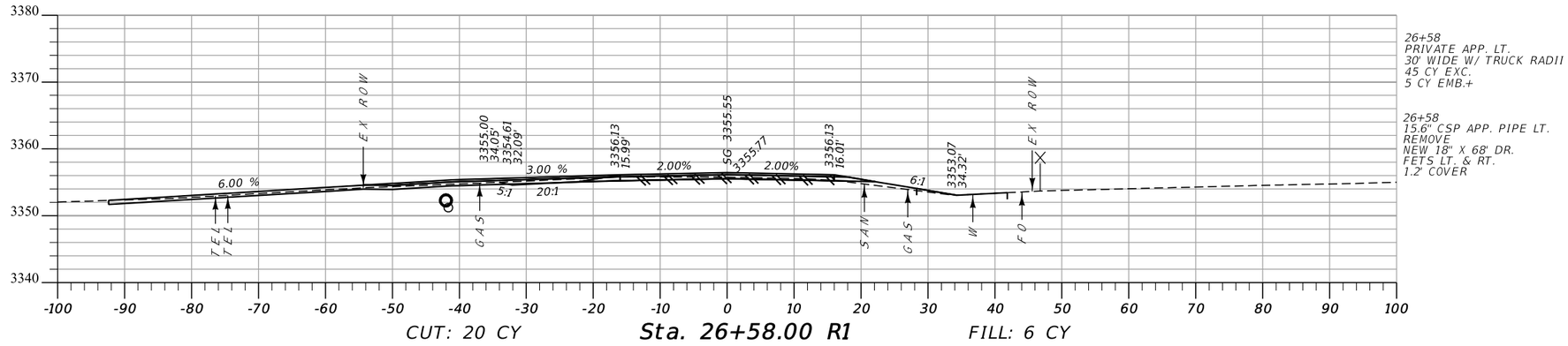
CUT: 9 CY **Sta. 25+50.00 R1** FILL: 5 CY



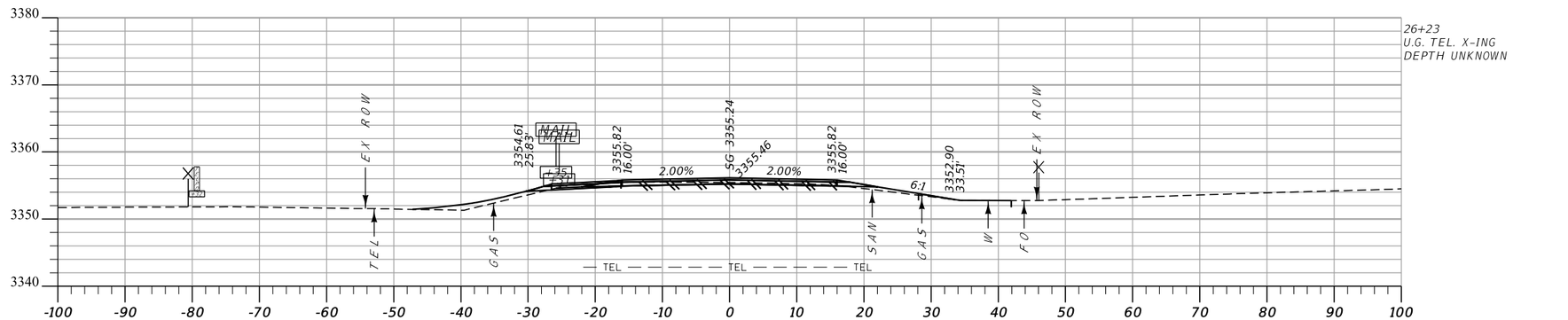
CUT: 10 CY **Sta. 25+25.00 R1** FILL: 5 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK	10/2/2020			
	3:10:48 PM CPS - U3530	CHECKED BY		CASCADE COUNTY	UPN 9532000	SHEET 22

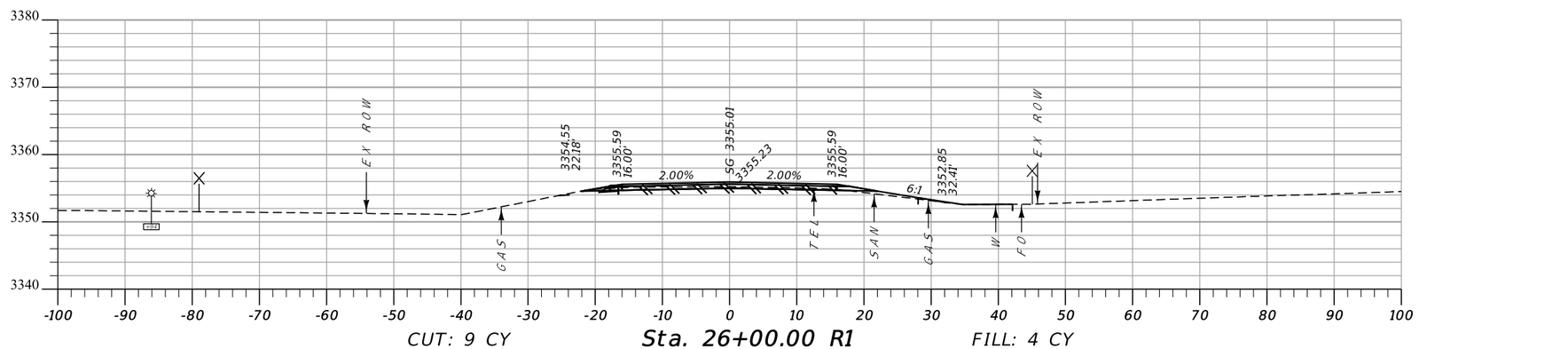
DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6



CUT: 20 CY **Sta. 26+58.00 R1** FILL: 6 CY



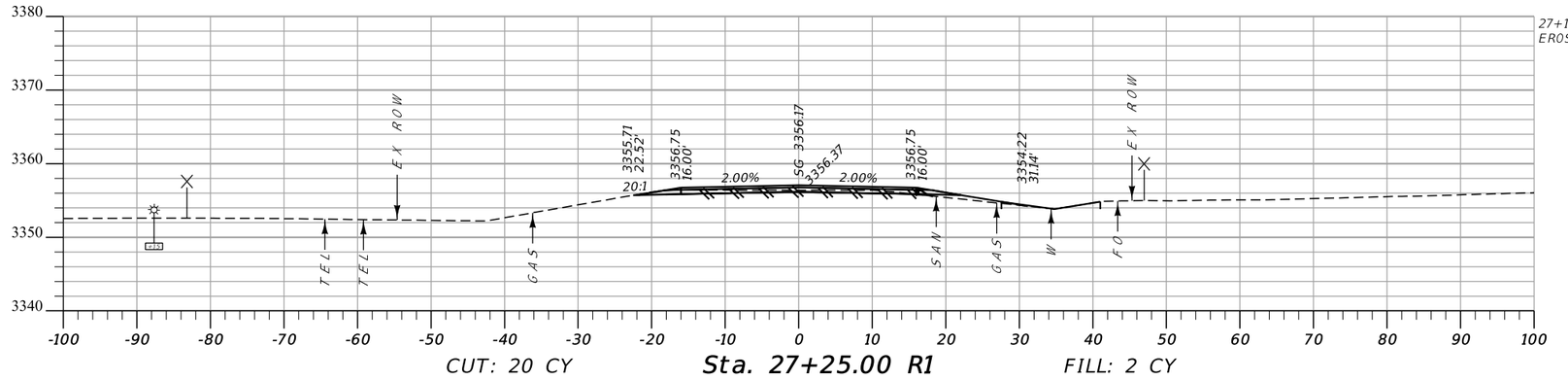
CUT: 11 CY **Sta. 26+25.00 R1** FILL: 4 CY



CUT: 9 CY **Sta. 26+00.00 R1** FILL: 4 CY

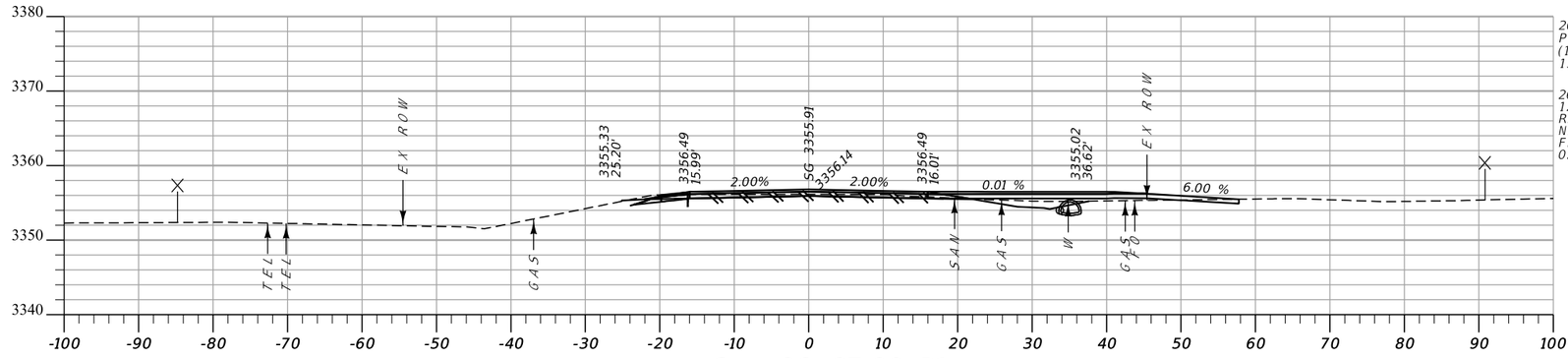
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE 10/2/2020	MAINLINE CROSS SECTIONS		STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK 10/2/2020				
	3:10:55 PM CPS - U3530	CHECKED BY	CASCADE COUNTY		UPN 9532000	SHEET 23

DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6



27+19.77 TO 27+68.97
EROSION CONTROL BLANKET LINED DT. RT.

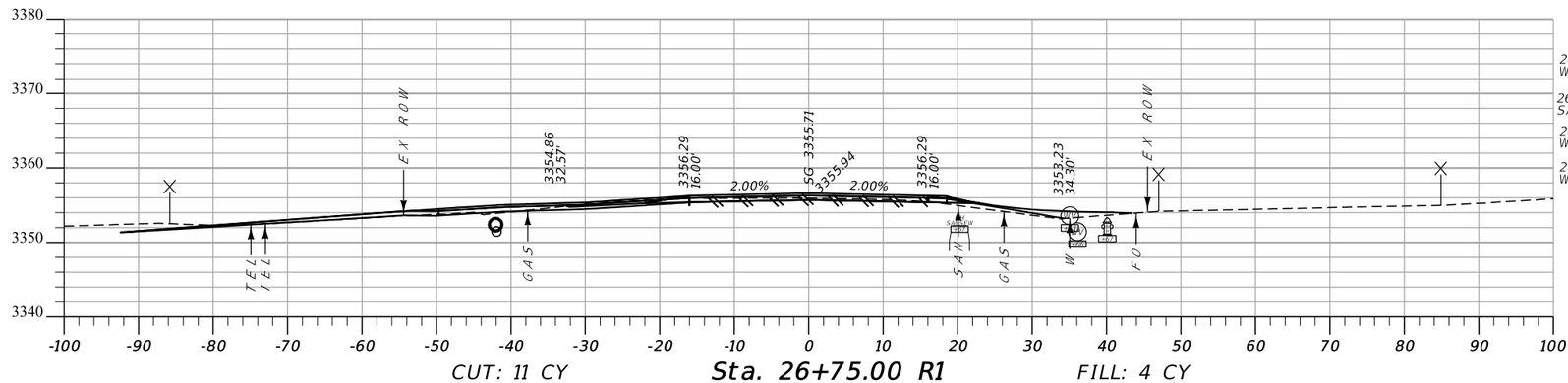
CUT: 20 CY **Sta. 27+25.00 R1** FILL: 2 CY



26+97
PRIVATE APP. RT.
(12' WIDE W/ 25' RADII)
15 CY EMB.+

26+97
12" CSP APP. PIPE RT.
REMOVE
NEW 28 1/2" X 18" X 42' RCPA
FETS LT. & RT.
0.5' COVER

CUT: 17 CY **Sta. 26+97.00 R1** FILL: 2 CY



26+65 36' RT.
WATER VALVE BOX-ADJ. TO GRADE

26+66 20' RT.
SAN. SEWER MANHOLE-ADJ. TO GRADE

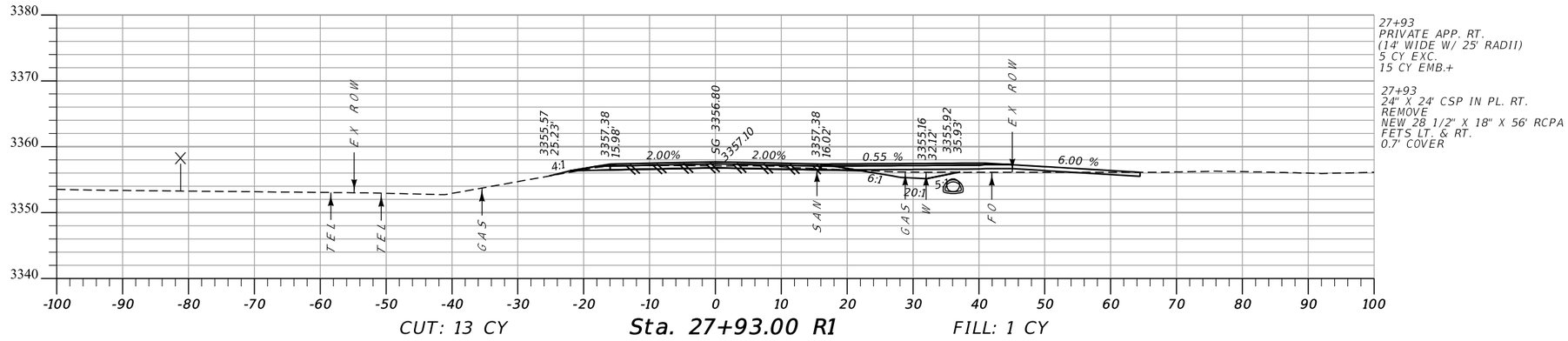
26+72 35' RT.
WATER VALVE BOX-ADJ. TO GRADE

26+67 40' RT.
WATER HYDRANT- DO NOT DISTURB

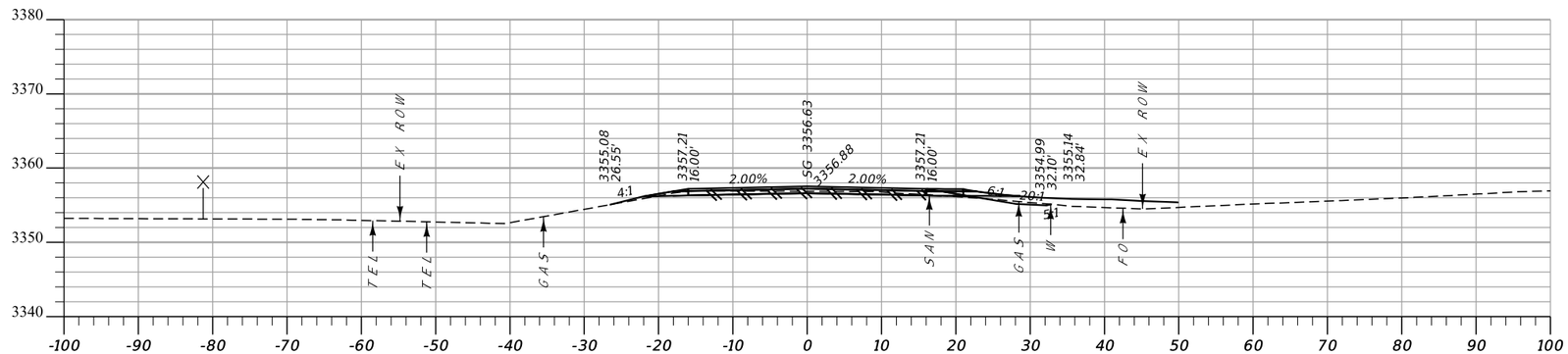
CUT: 11 CY **Sta. 26+75.00 R1** FILL: 4 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:11:02 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 24

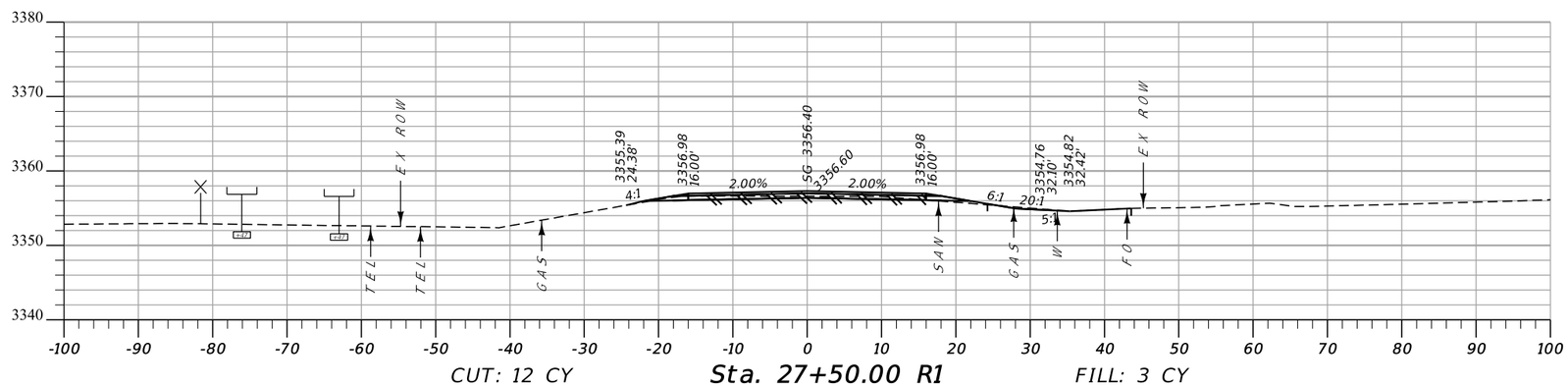
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CUT: 13 CY **Sta. 27+93.00 R1** FILL: 1 CY



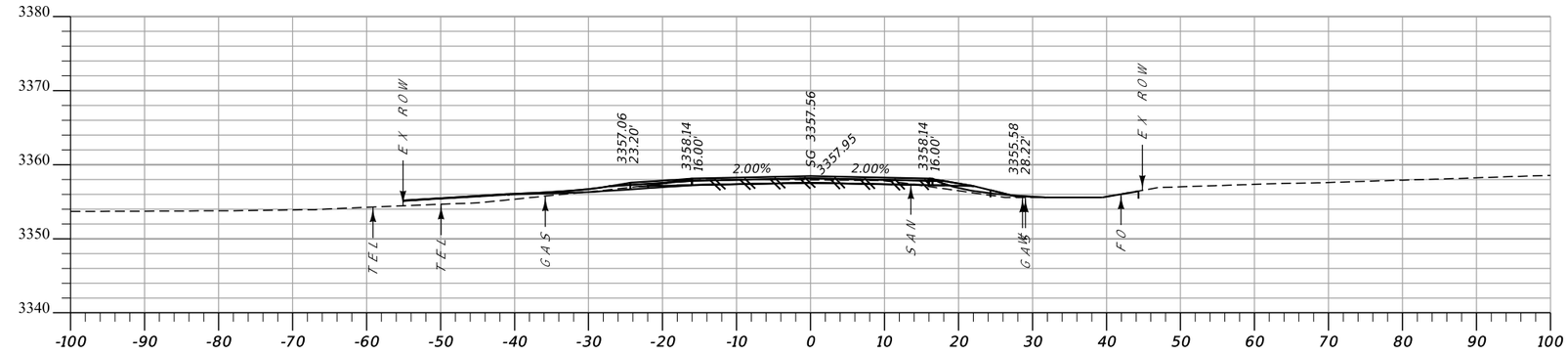
CUT: 13 CY **Sta. 27+75.00 R1** FILL: 2 CY



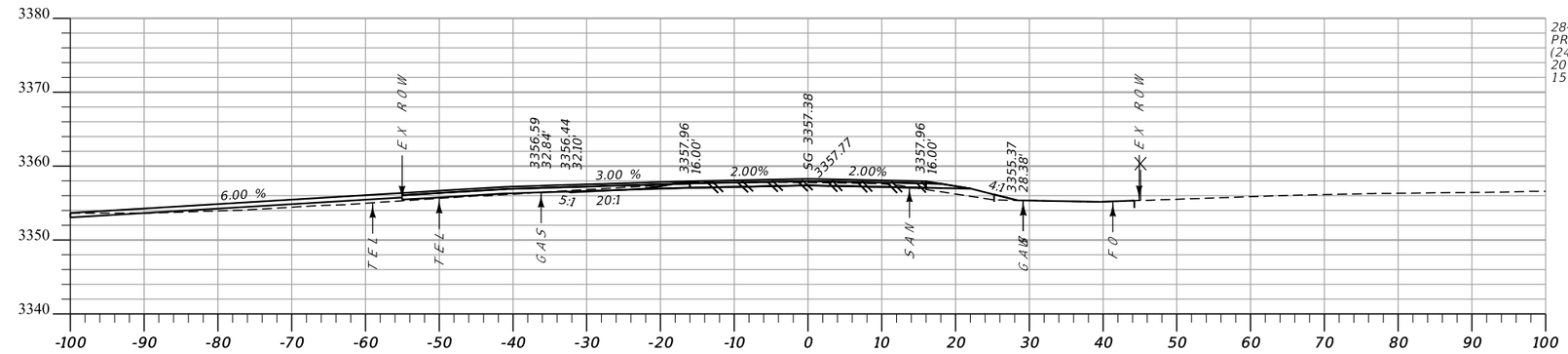
CUT: 12 CY **Sta. 27+50.00 R1** FILL: 3 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE 10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK 10/2/2020			
	3:11:09 PM CPS - U3530	CHECKED BY	CASCADE COUNTY	UPN 9532000	SHEET 25

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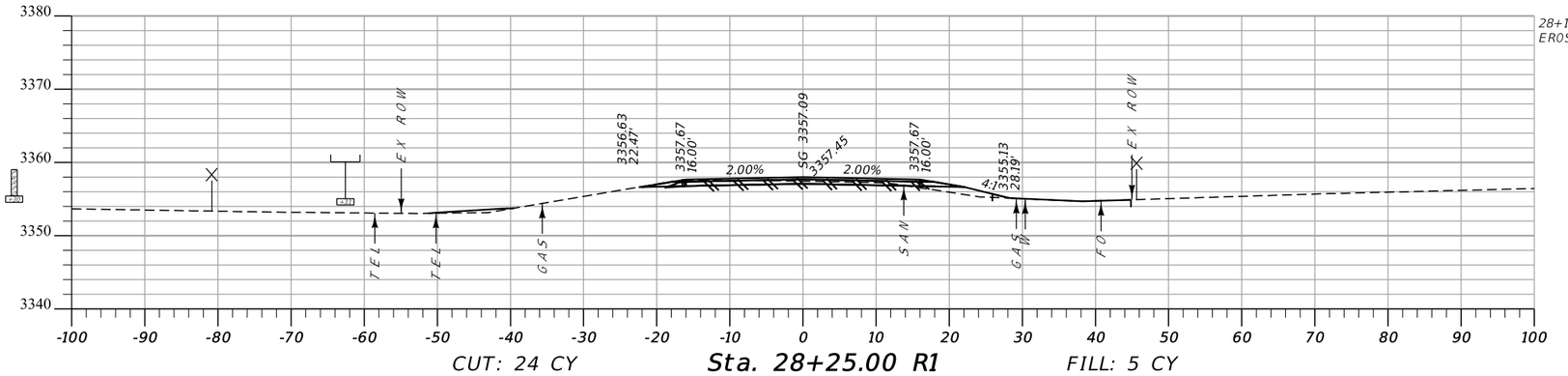


CUT: 13 CY **Sta. 28+75.00 R1** FILL: 5 CY



CUT: 21 CY **Sta. 28+56.00 R1** FILL: 9 CY

28+56
PRIVATE APP. LT.
(24' WIDE W/ 25' RADII)
20 CY EXC.
15 CY EMB.+

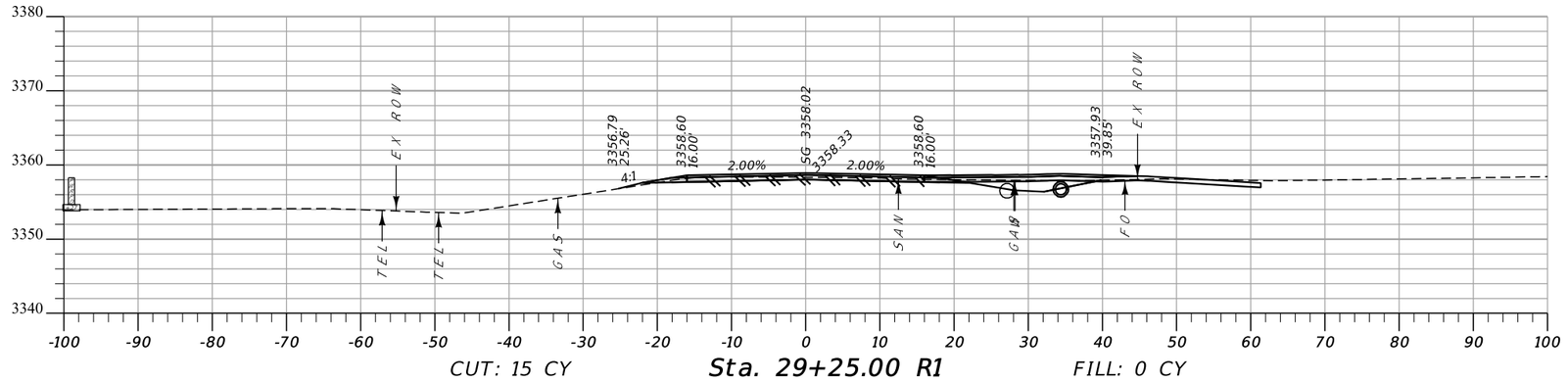


CUT: 24 CY **Sta. 28+25.00 R1** FILL: 5 CY

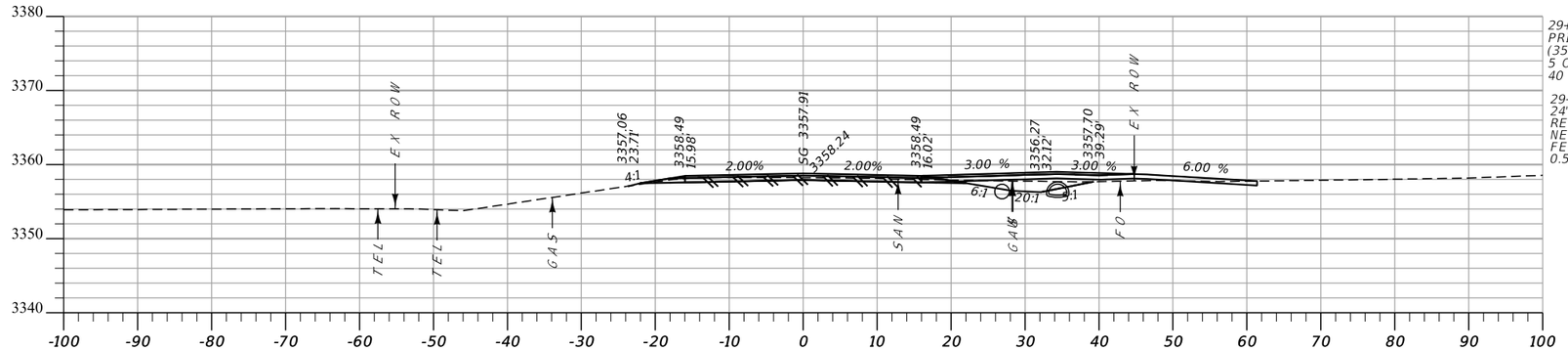
28+17.19 TO 28+75.29
EROSION CONTROL BLANKET LINED DT. RT.

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:11:17 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 26

DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6



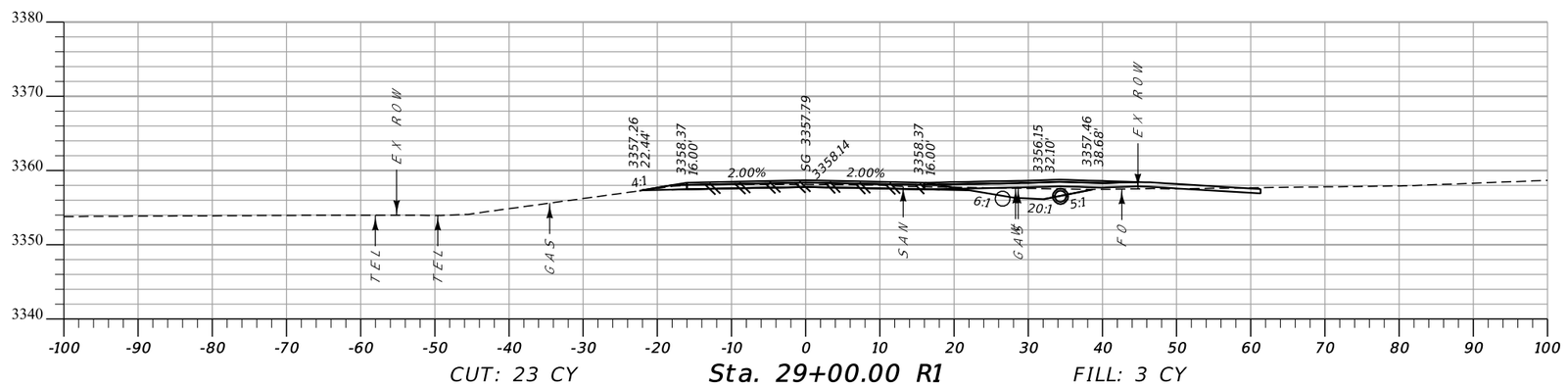
CUT: 15 CY **Sta. 29+25.00 R1** FILL: 0 CY



29+13
PRIVATE APP. RT.
(35' WIDE W/ 25' RADII)
5 CY EXC.
40 CY EMB.+

29+13
24" CSP APP. PIPE RT.
REMOVE
NEW 28 1/2" X 18" X 64' RCPA RT.
FETS LT. & RT.
0.5' COVER

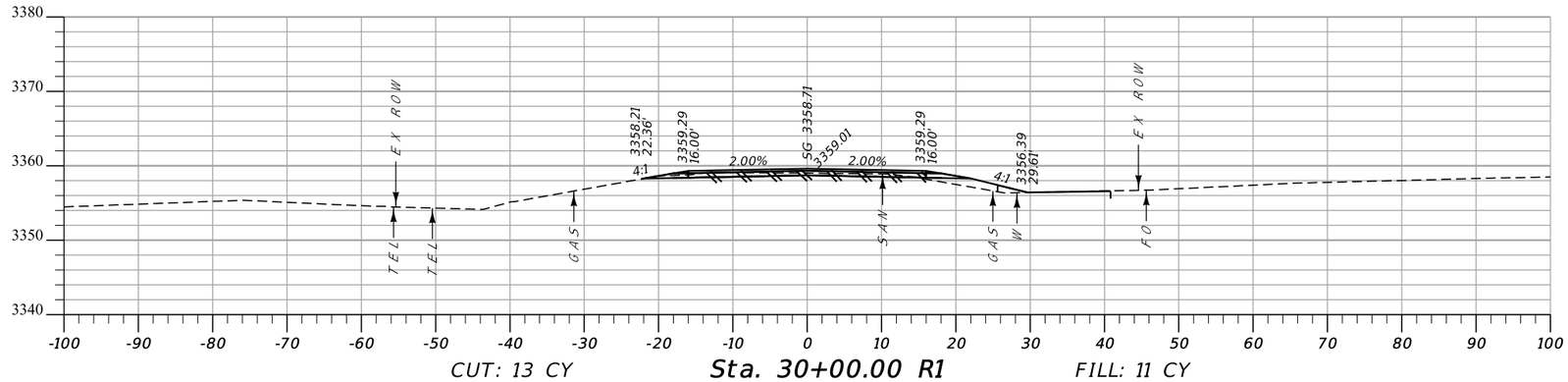
CUT: 16 CY **Sta. 29+13.00 R1** FILL: 0 CY



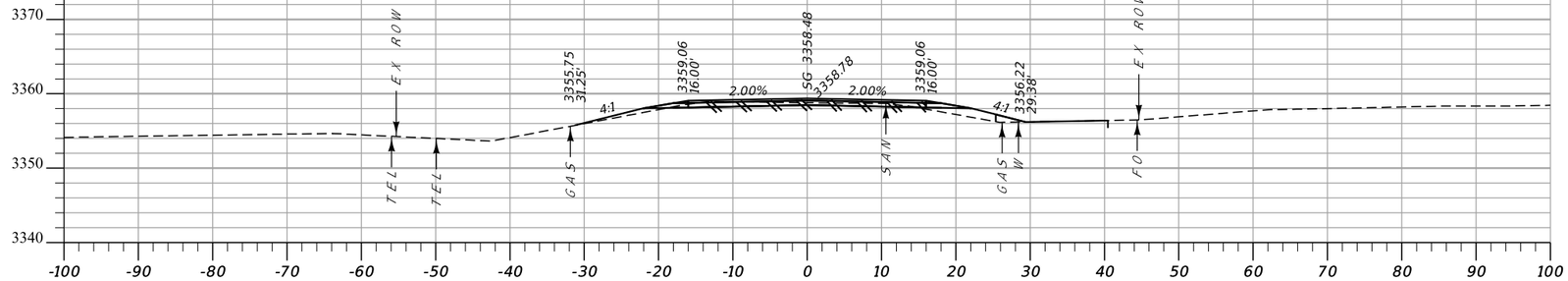
CUT: 23 CY **Sta. 29+00.00 R1** FILL: 3 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS / CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020		
	3:11:24 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000 / SHEET 27

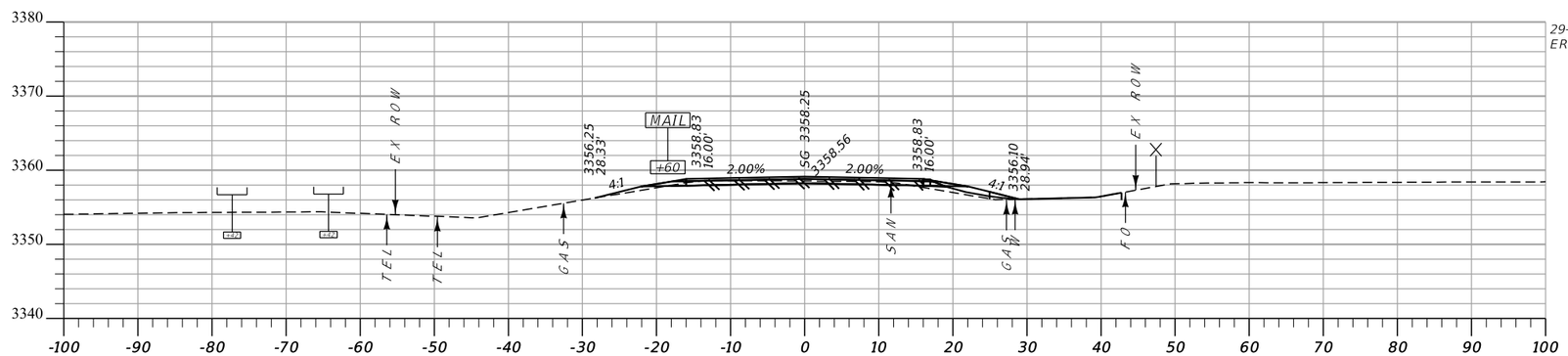
DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6



CUT: 13 CY **Sta. 30+00.00 R1** FILL: 11 CY



CUT: 12 CY **Sta. 29+75.00 R1** FILL: 12 CY

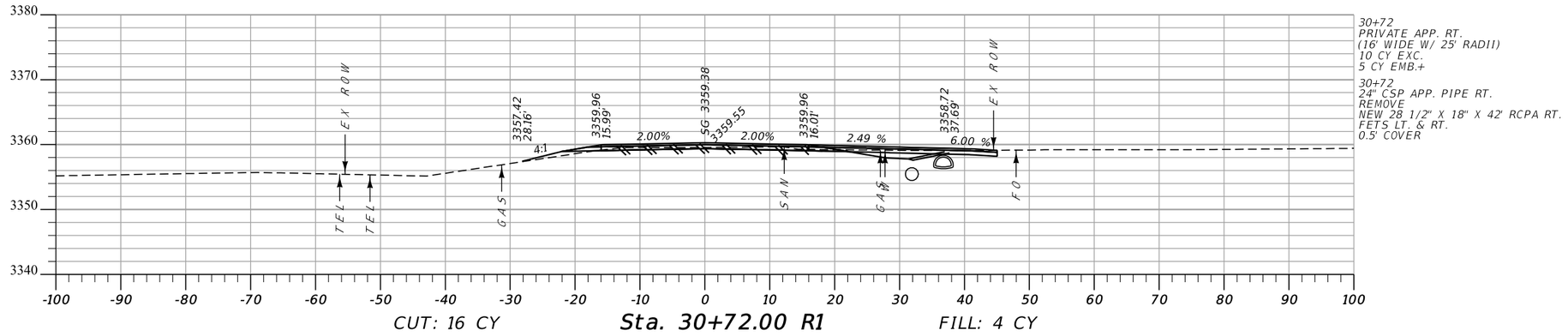


CUT: 22 CY **Sta. 29+50.00 R1** FILL: 6 CY

29+47.70 TO 30+45.55
EROSION CONTROL BLANKET LINED DT. RT.

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK	10/2/2020			
	3:11:31 PM CPS - U3530	CHECKED BY		CASCADE COUNTY	UPN 9532000	SHEET 28

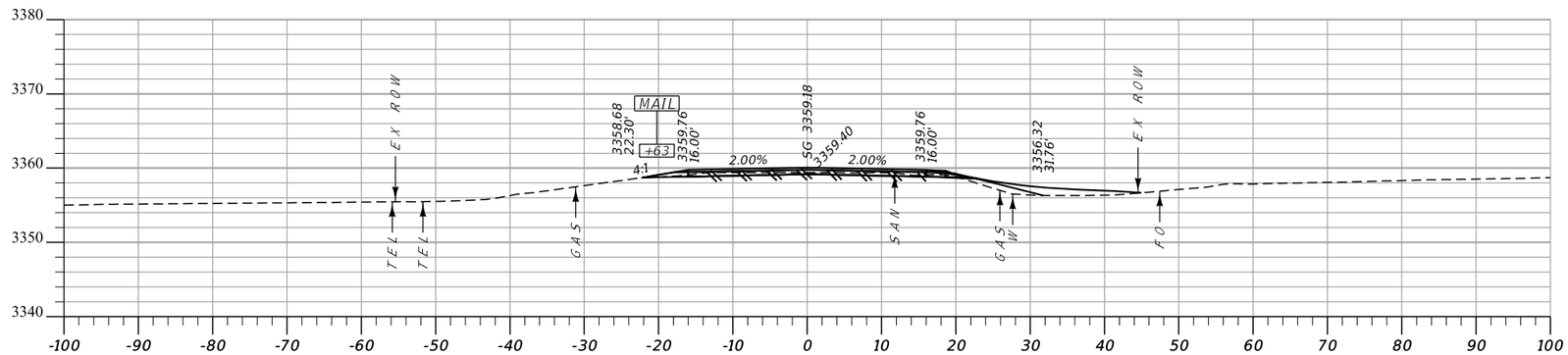
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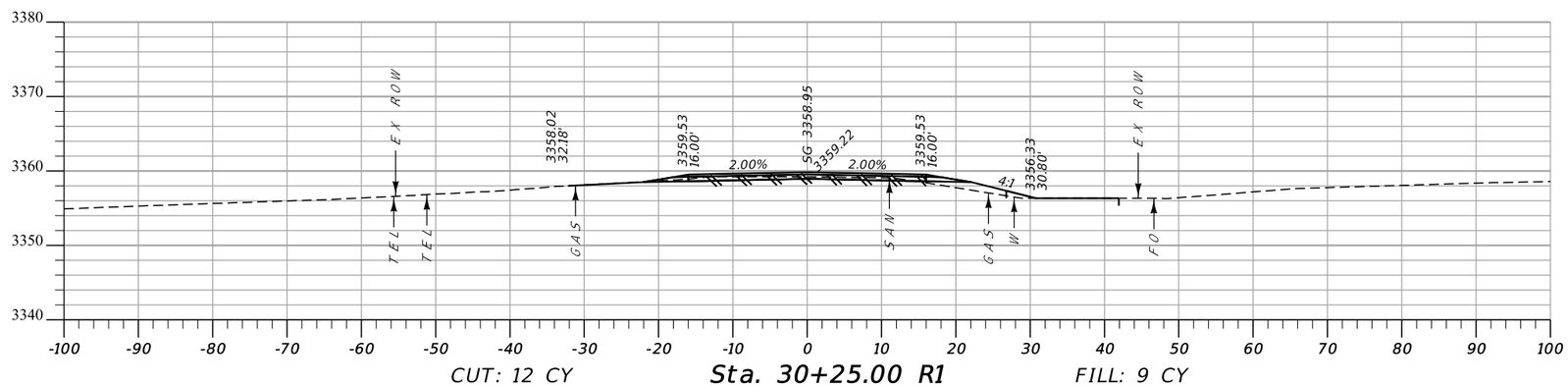
30+72
PRIVATE APP. RT.
(16' WIDE W/ 25' RADII)
10 CY EXC.
5 CY EMB.+

30+72
24" CSP APP. PIPE RT.
REMOVE
NEW 28 1/2" X 18" X 42' RCPA RT.
FETS LT. & RT.
0.5' COVER

CUT: 16 CY **Sta. 30+72.00 R1** FILL: 4 CY



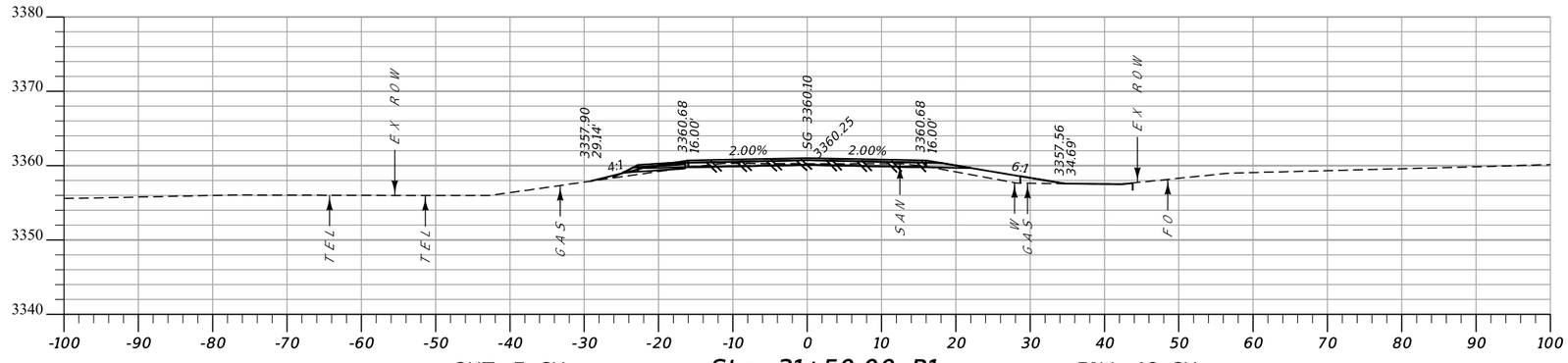
CUT: 11 CY **Sta. 30+50.00 R1** FILL: 7 CY



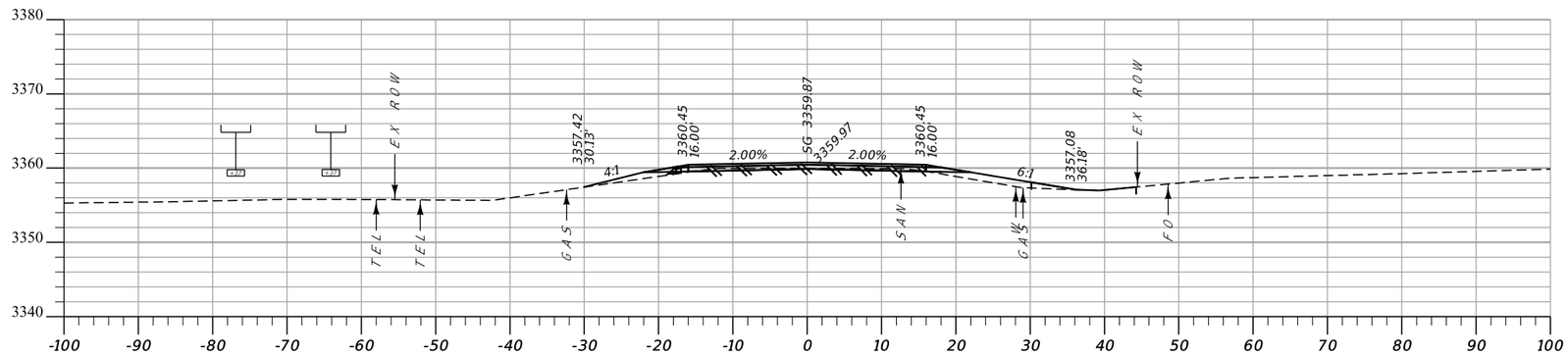
CUT: 12 CY **Sta. 30+25.00 R1** FILL: 9 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE 10/2/2020	MAINLINE CROSS SECTIONS		STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK 10/2/2020				
	3:11:38 PM CPS - U3530	CHECKED BY	CASCADE COUNTY		UPN 9532000	SHEET 29

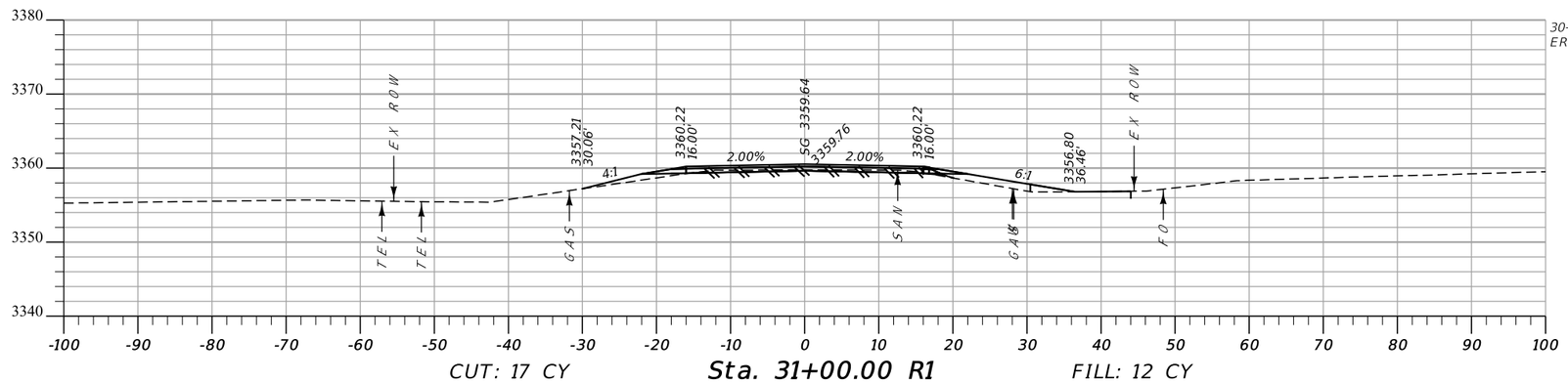
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CUT: 7 CY **Sta. 31+50.00 R1** FILL: 16 CY



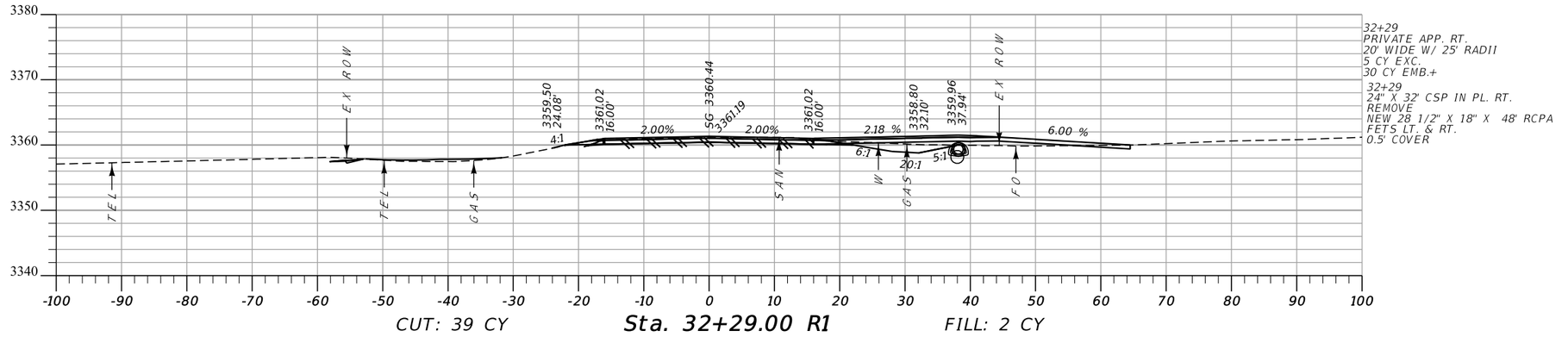
CUT: 6 CY **Sta. 31+25.00 R1** FILL: 18 CY



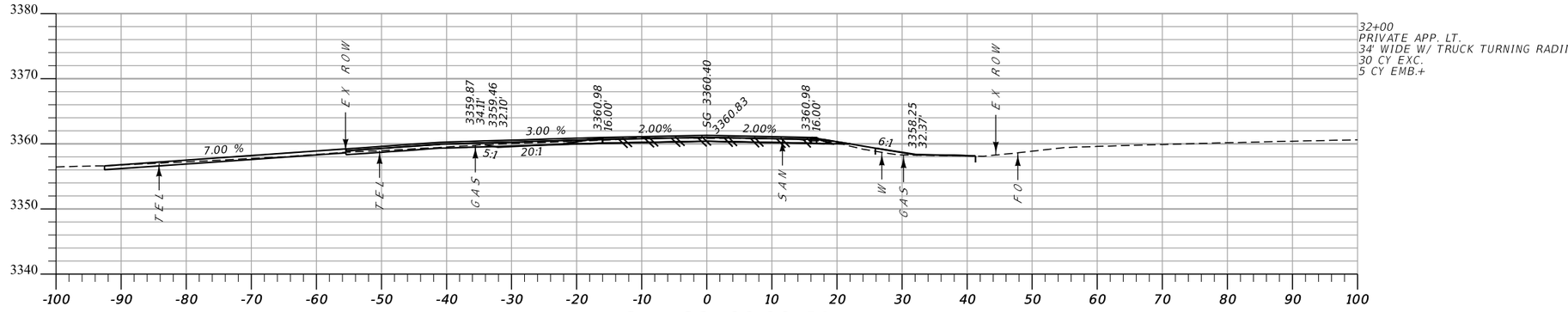
CUT: 17 CY **Sta. 31+00.00 R1** FILL: 12 CY

30+97.98 TO 32+02.05
EROSION CONTROL BLANKET LINED DT. RT.

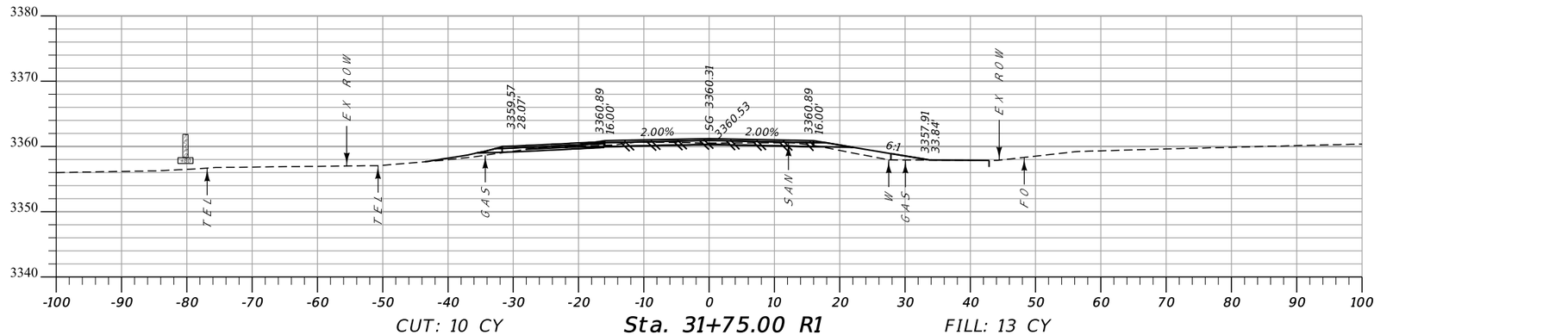
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CUT: 39 CY **Sta. 32+29.00 R1** FILL: 2 CY



CUT: 19 CY **Sta. 32+00.00 R1** FILL: 7 CY

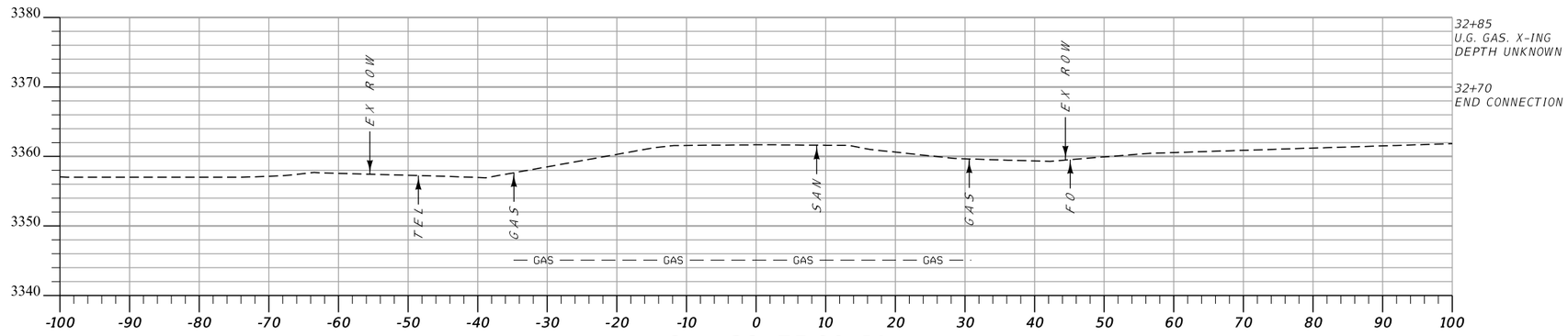


CUT: 10 CY **Sta. 31+75.00 R1** FILL: 13 CY

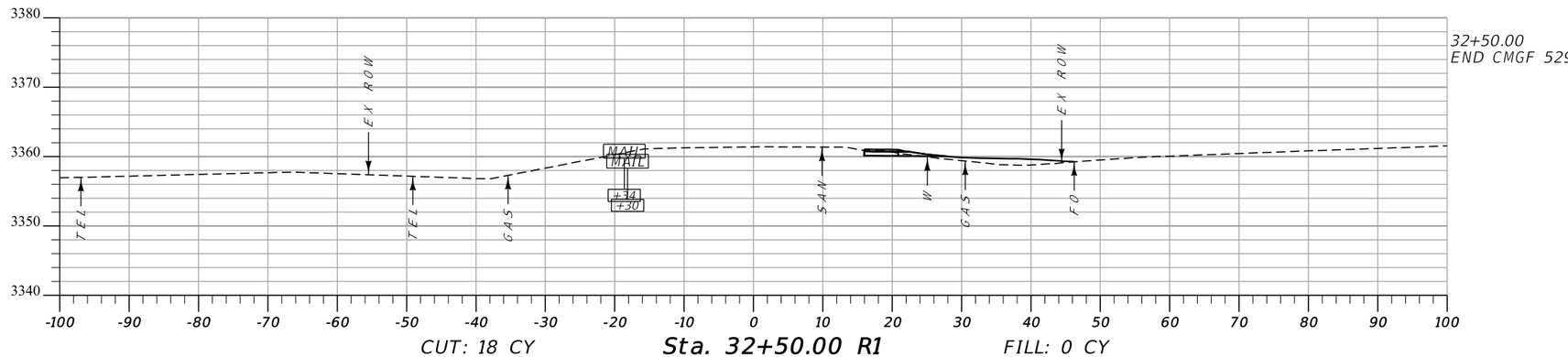
MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY	DANIEL ZIESKE	10/2/2020	MAINLINE CROSS SECTIONS	STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY	JEANIA CERECK	10/2/2020			
	3:11:53 PM CPS - U3530	CHECKED BY			CASCADE COUNTY	UPN 9532000	SHEET 31

DocuSign Envelope ID: 704800D9-D0D1-48C1-99AF-837FABB19BD6

AWARD COPY



CUT: 0 CY **Sta. 32+75.00 R1** FILL: 0 CY



CUT: 18 CY **Sta. 32+50.00 R1** FILL: 0 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9532000rdlay001.dgn	DESIGNED BY DANIEL ZIESKE 10/2/2020	MAINLINE CROSS SECTIONS		STUCKEY ROAD-GREAT FALLS	CMGF 5299(134)
	1/4/2022	REVIEWED BY JEANIA CERECK 10/2/2020				
	3:12:00 PM CPS - U3530	CHECKED BY	CASCADE COUNTY		UPN 9532000	SHEET 32