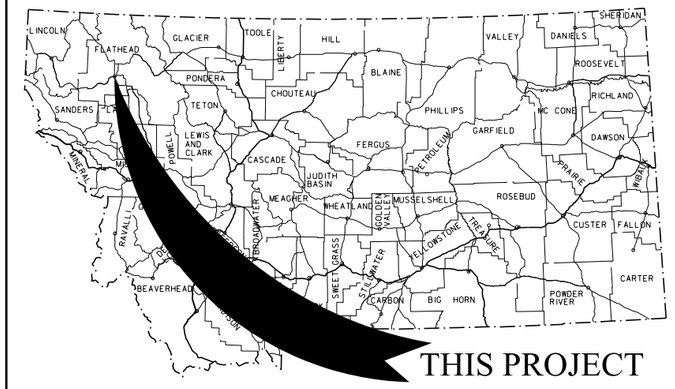
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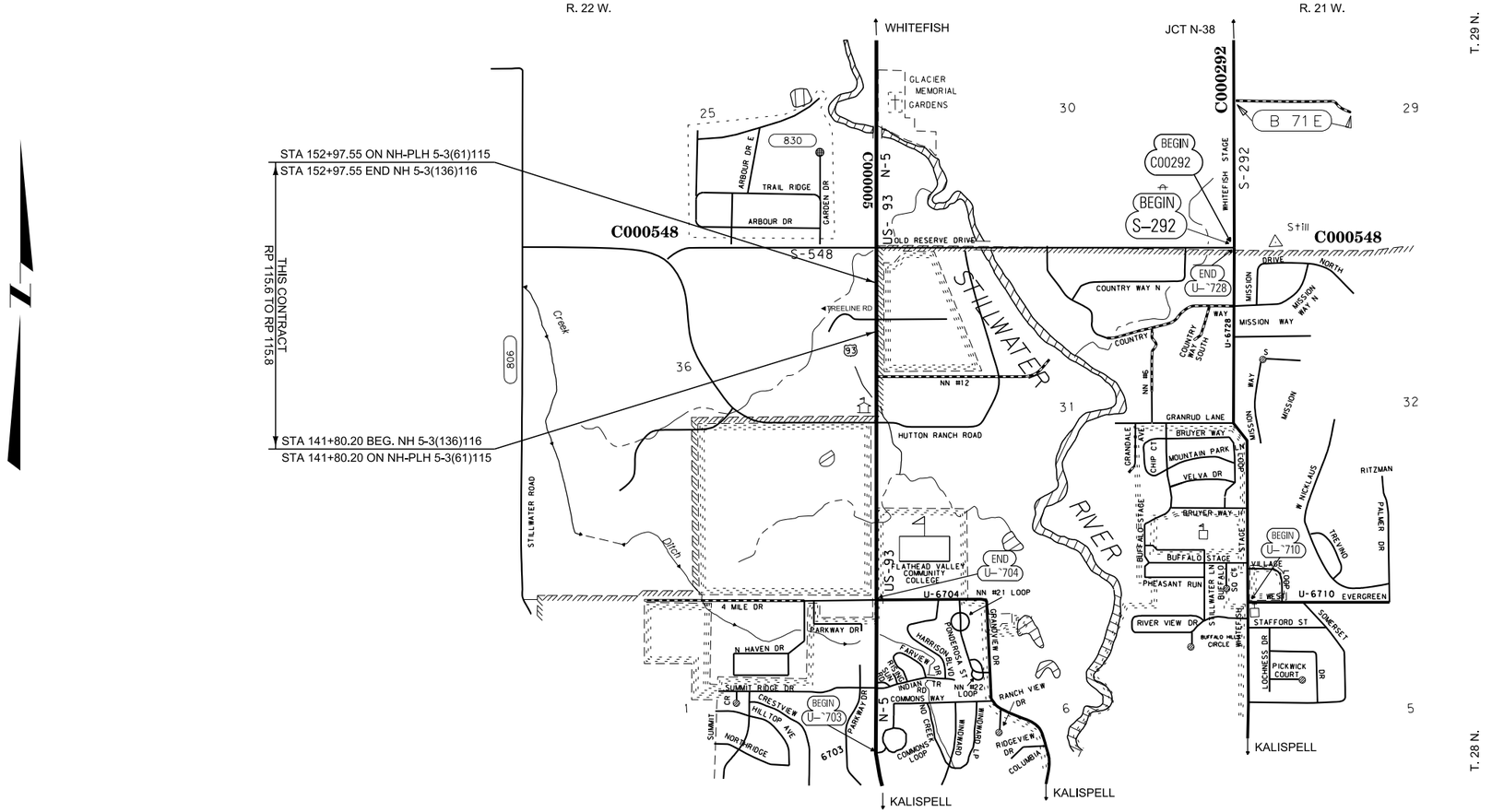
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 5-3(136)116
130 - RECONSTRUCTION - WITH ADDED CAPACITY, ADA AND SIGNAL UPGRADES
US 93 & TREELINE ROAD (KAL)
FLATHEAD COUNTY

LENGTH 0.4 MILES

PROJECT DESIGN DATA	
PRESENT 2015	A.D.T. = 24,650
LETTING 2017	A.D.T. = 25,220
DESIGN 2037	A.D.T. = 39,750
	D.H.V. = 3,580
	TRUCKS = 2.3 %
	V. = 40 Mph
	18 KIP ESAL'S = 122 DAILY
	GROWTH RATE = 2.3 % ANNUALLY

SURFACING SOURCES - CONTRACTOR FURNISHED



FLATHEAD COUNTY
KALISPELL

MONTANA
DEPARTMENT OF TRANSPORTATION

MALCOLM "MACK" LONG
DIRECTOR OF TRANSPORTATION

APPROVED BY:

TRAFFIC AND SAFETY ENGINEER

MONTANA
GABE B. PRIEBE
13957PE
LICENSED PROFESSIONAL ENGINEER

Signed by: Gabe B. Priebe
4895FFA73587466...

11/15/2024
DATE

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R / W & I.C.	NH 5-3(149)116
P. E.	NH 5-3(135)116

3	MONTANA Department of Transportation	C:\DGN\9035000rdttl001.dgn	DESIGNED BY	TROY JOHNSON	12/15/2016	ROAD PLANS
2		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019	
		5:14:38 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	UPN 9035000

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SUMMARY	E1
DETAILS	E1-E3
PLANS	E4

NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
ASPHALT CEMENT - GRADE S - 1/2" AGG.	= 5.8% OF PL. MIX BIT. SURF.
HYDRATED LIME	= 1.4% OF PL. MIX BIT. SURF.
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
TACK (CONCRETE SURFACES)	= 0.10 GAL. PER SQ. YARD (UNDILUTED)
TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ. YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ. YARD
COVER	= 25 LBS. PER SQ. YARD
FOG SEAL	= 0.075 GAL. PER SQ. YARD (UNDILUTED)

CURB RADIUS

ALL CURB RADII CALL OUTS ARE TO THE TOP BACK OF CURB.

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.

MISC. TO BE REMOVED BY OTHERS

ALL PRIVATELY OWNED SIGNS TO BE REMOVED BY OWNER. (SEE SIGNING SHEET S5)

LANDSCAPING

LANDSCAPING IRRIGATION AS-BUILTS ARE AVAILABLE FOR THE VERIZON BUSINESS. CONTACT ALPINE SPRINKLERS & LANDSCAPING AT (406)752-9742 PRIOR TO EXCAVATION ON THIS PROPERTY

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CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
141+80.20	POT	1,489,476.917	792,425.435	BEG. PROJECT
146+24.88	POT	1,489,920.827	792,451.544	
146+80.00	POT	1,489,975.853	792,454.780	
152+11.70	POT	1,490,506.454	792,489.017	
152+97.55	POT	1,490,592.123	792,494.545	END PROJECT

GPK NAME: JOB903.GPK CHAIN NAME: US93

TREELINE ROAD CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
10+11.17	POT	1,489,960.041	791,819.085	BEG. SEAL & COVER
20+44.41	POT	1,489,895.985	792,850.335	END SEAL & COVER

GPK NAME: JOB903.GPK CHAIN NAME: TREELINE

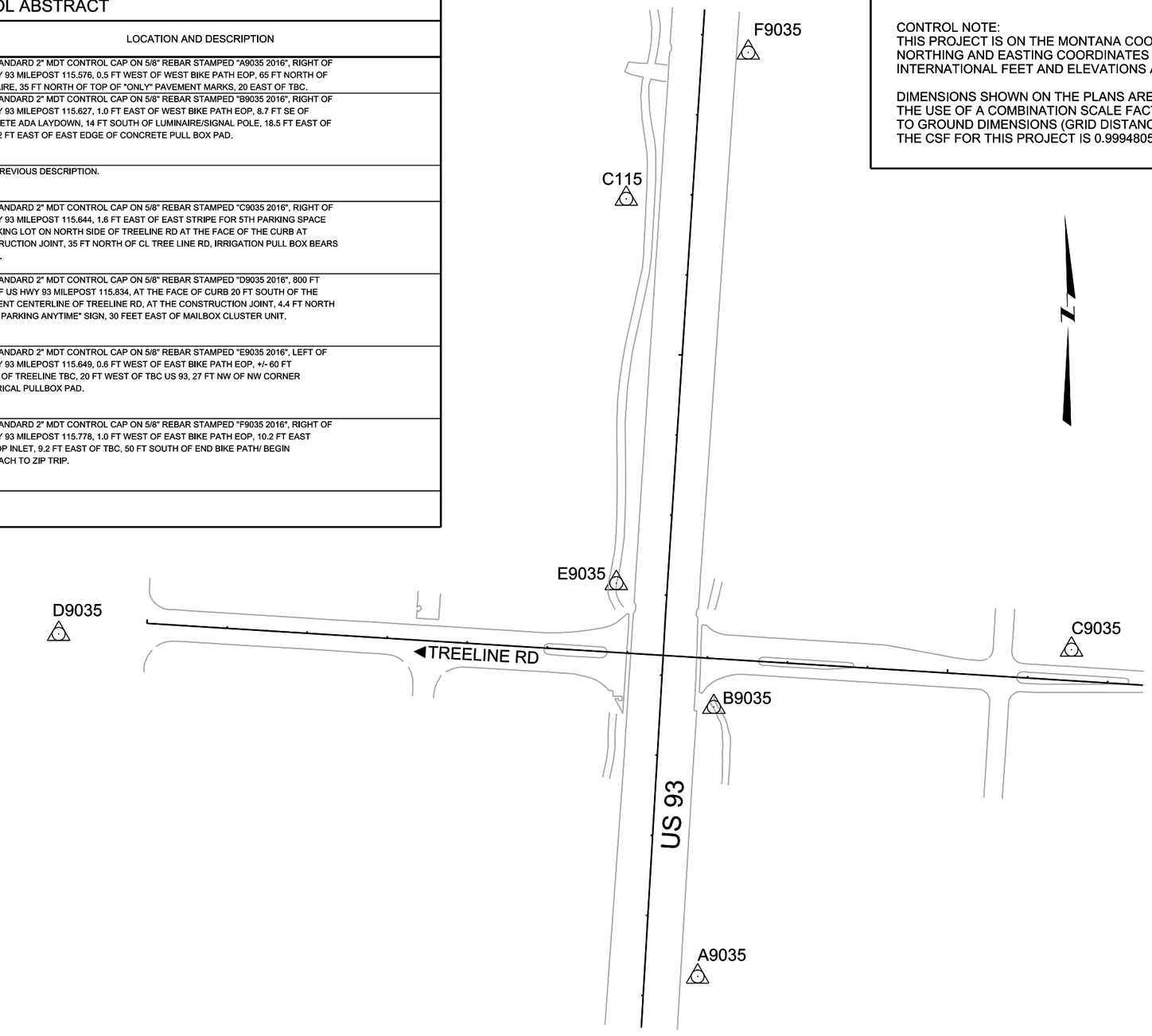
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CONTROL DIAGRAM

SCALE: N/A

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
A9035	1,489,520.468	792,494.482	3026.988*	SET STANDARD 2" MDT CONTROL CAP ON 5/8" REBAR STAMPED "A9035 2016", RIGHT OF US HWY 93 MILEPOST 115.576, 0.5 FT WEST OF WEST BIKE PATH EOP, 65 FT NORTH OF LUMINAIRE, 35 FT NORTH OF TOP OF "ONLY" PAVEMENT MARKS, 20 EAST OF TBC.
B9035	1,489,856.404	792,514.662	3022.274	SET STANDARD 2" MDT CONTROL CAP ON 5/8" REBAR STAMPED "B9035 2016", RIGHT OF US HWY 93 MILEPOST 115.627, 1.0 FT EAST OF WEST BIKE PATH EOP, 8.7 FT SE OF CONCRETE ADA LAYDOWN, 14 FT SOUTH OF LUMINAIRE/SIGNAL POLE, 18.5 FT EAST OF TBC, 6.2 FT EAST OF EAST EDGE OF CONCRETE PULL BOX PAD.
C115	1,490,489.842	792,405.445	3036.188*	SEEP PREVIOUS DESCRIPTION.
C9035	1,489,927.856	792,960.626	3004.626	SET STANDARD 2" MDT CONTROL CAP ON 5/8" REBAR STAMPED "C9035 2016", RIGHT OF US HWY 93 MILEPOST 115.644, 1.6 FT EAST OF EAST STRIPE FOR 5TH PARKING SPACE IN PARKING LOT ON NORTH SIDE OF TREELINE RD AT THE FACE OF THE CURB AT CONSTRUCTION JOINT, 35 FT NORTH OF CL TREE LINE RD, IRRIGATION PULL BOX BEARS SE 8 FT.
D9035	1,489,947.443	791,697.794	3018.950	SET STANDARD 2" MDT CONTROL CAP ON 5/8" REBAR STAMPED "D9035 2016", 800 FT LEFT OF US HWY 93 MILEPOST 115.834, AT THE FACE OF CURB 20 FT SOUTH OF THE APPARENT CENTERLINE OF TREELINE RD, AT THE CONSTRUCTION JOINT, 4.4 FT NORTH OF "NO PARKING ANYTIME" SIGN, 30 FEET EAST OF MAILBOX CLUSTER UNIT.
E9035	1,490,010.790	792,393.218	3022.556	SET STANDARD 2" MDT CONTROL CAP ON 5/8" REBAR STAMPED "E9035 2016", LEFT OF US HWY 93 MILEPOST 115.649, 0.6 FT WEST OF EAST BIKE PATH EOP, +/- 60 FT NORTH OF TREELINE TBC, 20 FT WEST OF TBC US 93, 27 FT NW OF NW CORNER ELECTRICAL PULLBOX PAD.
F9035	1,490,672.098	792,557.606	3023.448	SET STANDARD 2" MDT CONTROL CAP ON 5/8" REBAR STAMPED "F9035 2016", RIGHT OF US HWY 93 MILEPOST 115.778, 1.0 FT WEST OF EAST BIKE PATH EOP, 10.2 FT EAST OF DROP INLET, 9.2 FT EAST OF TBC, 50 FT SOUTH OF END BIKE PATH/ BEGIN APPROACH TO ZIP TRIP.



BEARING SOURCE

GRID -- MONTANA STATE PLANE COORDINATE SYSTEM NAD83- 2011

LEVEL DATUM SOURCE

NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID 12A AND HOLDING BMS A9035)

CONTROL 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 0.99948053.

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SUMMARY

SURFACING

STATION		AGGREGATE		BITUMINOUS MATERIAL	REMARKS
		tons	cubic yards	gallons	
FROM	TO	COMMERCIAL PLANT MIX 3/8 IN PG 58V-34	CRUSHED AGG. COURSE	EMULSIFIED ASPHALT - TACK COAT	
TREELINE RD					
14+94.65	15+75.50	29		11	MILLING AREA WEST OF US-93
14+94.66	15+75.52	36	70	14	MEDIAN REMOVAL WEST OF US-93
17+63.13	18+83.85	44	77	17	MEDIAN REMOVAL EAST OF US-93
17+63.18	18+83.99	39		15	MILLING AREA EAST OF US-93
US-93					
141+80.20	152+97.55				SEE PLAN SHEETS
145+48.01	145+86.51		1		SW CORNER NEW CURB AND GUTTER
145+49.03	145+90.13	11	2	4	SW CORNER STREET REPAIR
145+58.33	146+01.41		1		SE CORNER NEW C&G, VALLEY GUTTER
145+79.94	146+03.31	3	1	1	SE CORNER STREET REPAIR
146+42.54	151+15.27	113	257	44	NW CORNER ST. REP. & US-93 TURN LANE WIDENING
146+46.54	151+15.27		77		NW CORNER NEW C&G, VALLEY GUTTER
146+52.97	146+87.49	5	1	2	NE CORNER STREET REPAIR
146+56.97	146+86.25		1		NE CORNER NEW C&G, VALLEY GUTTER
SUBTOTAL		280	488	108	

CURB & GUTTER

STATION		linear feet					square yards				REMARKS
		CONCRETE CURB AND GUTTER		# REMOVE CURB AND GUTTER		# REMOVE CURB IN MEDIAN	CONCRETE VALLEY GUTTER		# REMOVE VALLEY GUTTER		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT		LEFT	RIGHT	LEFT	RIGHT	
TREELINE RD											
14+97.84	15+72.58					167.1					WEST OF US-93
17+66.67	18+80.76					239.4					EAST OF US-93
US-93											
145+48.01	145+86.51	52.9		52.9							SW CORNER - INT. US-93 & TREELINE RD
145+58.33	145+81.72							18.2		18.2	SE CORNER - INT. US-93 & TREELINE RD
145+79.01	146+01.41		38.2		38.2						SE CORNER - INT. US-93 & TREELINE RD
146+46.54	151+15.27	599.1		612.3							NW CORNER - INT. US-93 & TREELINE RD
146+56.97	146+66.88		37.6		37.6						NE CORNER - INT. US-93 & TREELINE RD
146+65.44	146+86.25							17.5		17.5	NE CORNER - INT. US-93 & TREELINE RD
146+73.56	146+89.65						11.6		9.3		NW CORNER - INT. US-93 & TREELINE RD
SUBTOTAL		652.0	75.8	665.2	75.8	406.5	11.6	35.7	9.3	35.7	
TOTAL		727.8		~			47.3		~		

FOR INFORMATION ONLY - INCLUDE IN THE COST OF NEW C&G, OR WHERE STREET EXCAVATION IS APPLICABLE

GRADING

STATION		cubic yards	REMARKS
		STREET EXC.	
FROM	TO		
TREELINE RD			
14+94.66	15+75.52	99	MEDIAN REMOVAL WEST OF US-93
17+63.13	18+83.86	108	MEDIAN REMOVAL EAST OF US-93
US-93			
145+49.03	145+90.13	8	SW CORNER - INT. US-93 & TREELINE RD
146+42.54	151+15.27	469	NW CORNER - INT. US-93 & TREELINE RD
TOTAL		684	

NOTE: QUANTITIES MEASURED IN CAD

COLD MILLING

STATION		square yards	REMARKS
		COLD MILLING	
FROM	TO	0.20 FT	
14+94.65	15+75.50	225	TREELINE RD WEST OF US 93
17+63.18	18+83.99	300	TREELINE RD EAST OF US 93
146+79.82	151+15.70	388	US 93 NORTH OF TREELINE RD
TOTAL		913	

NOTE: QUANTITIES MEASURED IN CAD

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SUMMARY

SIDEWALK

STATION		square yards								linear feet	REMARKS
		CONCRETE SIDEWALK		DETECTABLE WARNING DEVICES		# REMOVE SIDEWALK		# REMOVE BIKE PATH (PMS SURFACING)		WIDTH	
		4"		TYPE 1							
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT		
145+35.00	145+86.51	74.1		2.4		40.1		13.7		VARIES	SW CORNER - INT. US-93 & TREELINE RD
145+67.78	146+01.41		39.2		2.2		39.6			VARIES	SE CORNER - INT. US-93 & TREELINE RD
146+49.88	147+09.01	113.5		3.6		106.6		35.2		VARIES	NW CORNER - INT. US-93 & TREELINE RD
146+56.97	146+86.54		55.8		2.4		55.0			VARIES	NE CORNER - INT. US-93 & TREELINE RD
SUB TOTAL		187.6	95.0	6.0	4.6	146.7	94.6	48.9		~	
TOTAL		282.6		10.6		~		~		~	

FOR INFORMATION ONLY - INCLUDE IN THE COST OF NEW SIDEWALK, OR STREET EXCAVATION WHERE APPLICABLE

STORM DRAIN

STATION		linear feet	linear feet		each				REMARKS
		RCP IRR CLASS 4 12"	REMOVE STORM DRAIN		# MODIFY DROP INLET		STORM DRAIN STRUCTURE MANHOLE BASE 48"	CURB INLET FRAME & GRATE TYPE B	
FROM	TO		LEFT	RIGHT	LEFT	RIGHT			
146+80.14					1				40.37' LEFT CONVERT DI TO MH
146+80.14	146+87.82	15.0							FROM MODIFIED DI TO NEW CURB INLET
146+80.14	146+97.49		16						INCLUDES SLOTTED DRAIN AND CONNECTION PIPE
146+87.82							1	1	53.31' LEFT OF CENTERLINE
SUBTOTAL		15.0	16		1		1	1	
TOTAL		15.0	16		1		1	1	

SEE SPECIAL PROVISIONS FOR MODIFY DROP INLET

REMOVE BOLLARD

STATION	each	REMARKS
FROM		
146+82.88	1	62.5' LT NW CORNER
146+83.99	1	59.4' LT NW CORNER
TOTAL	2	

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SUMMARY

REVEGETATION				
STATION		square yards	lump sum	REMARKS
		SODDING	LANDSCAPING	
FROM	TO			
145+35.00	145+87.46	26		SW CORNER - INT. US-93 & TREELINE RD
145+64.72	145+69.68	3		SE CORNER - INT. US 93 & TREELINE RD
146+47.31	151+15.27	155		NW CORNER - INT. US-93 & TREELINE RD
146+68.07	146+98.03		1	NW CORNER - INT. US-93 & TREELINE RD
TOTAL		184	1	

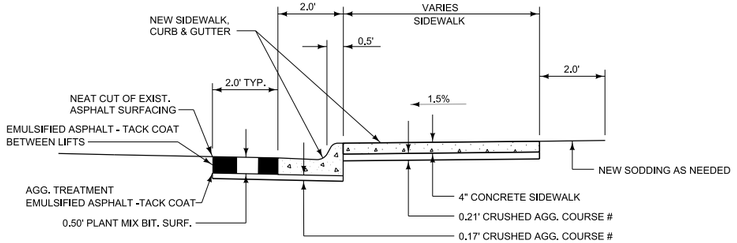
NOTE: SODDING TO BE PLACED IN A 2' WIDE STRIP AROUND NEW SIDEWALK, OR AS DIRECTED IN DETAILS.

PAVEMENT MARKINGS				
ITEM	UNIT	# INTERIM	FINAL	TOTAL
CURB MARKING - YELLOW EPOXY	GAL		16	**16**
STRIPING - WHITE PAINT	GAL	64		**64**
STRIPING - WHITE EPOXY	GAL		42	**42**
STRIPING - YELLOW PAINT	GAL	30		**30**
STRIPING - YELLOW EPOXY	GAL		20	**20**
WORDS & SYMBOLS - WHITE PAINT	GAL	48		**48**
WORDS & SYMBOLS - WHITE EPOXY	GAL		31	**31**
WORDS & SYMBOLS - YELLOW PAINT	GAL	4		**4**
WORDS & SYMBOLS - YELLOW EPOXY	GAL		3	**3**
TEMPORARY STRIPING	LN FT			**3168**
FINAL SWEEP AND BROOM	CR MILE			**0.6**

QUANTITIES BASED ON TWO APPLICATIONS

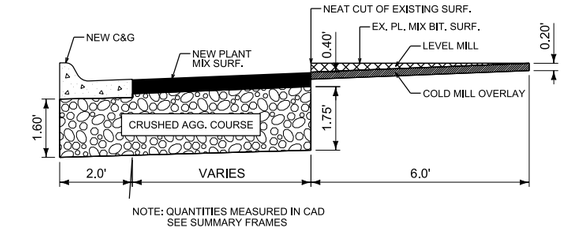
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NEW CURB & GUTTER, SIDEWALK, AND SURFACING REPAIR DETAIL



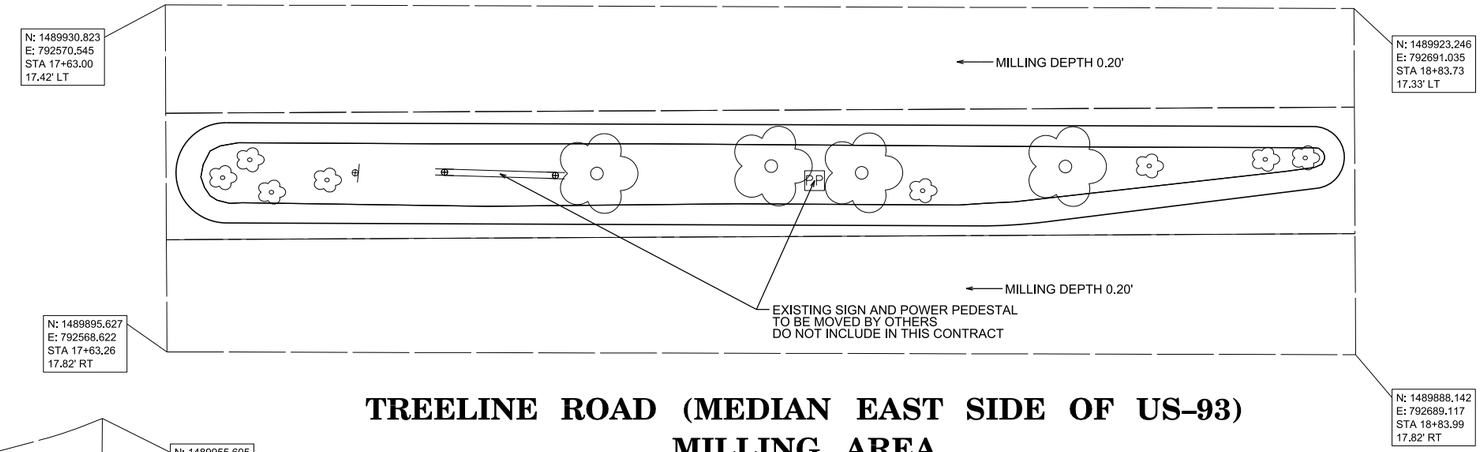
NOTE: THESE ITEMS ARE NOT MEASURED FOR PAYMENT. INCLUDE IN COST OF NEW SIDEWALK OR CURB & GUTTER.

NOTE: SW CORNER DOES NOT HAVE TYPICAL 2' REPAIR. SEE SW CORNER DETAIL SHEET 10.

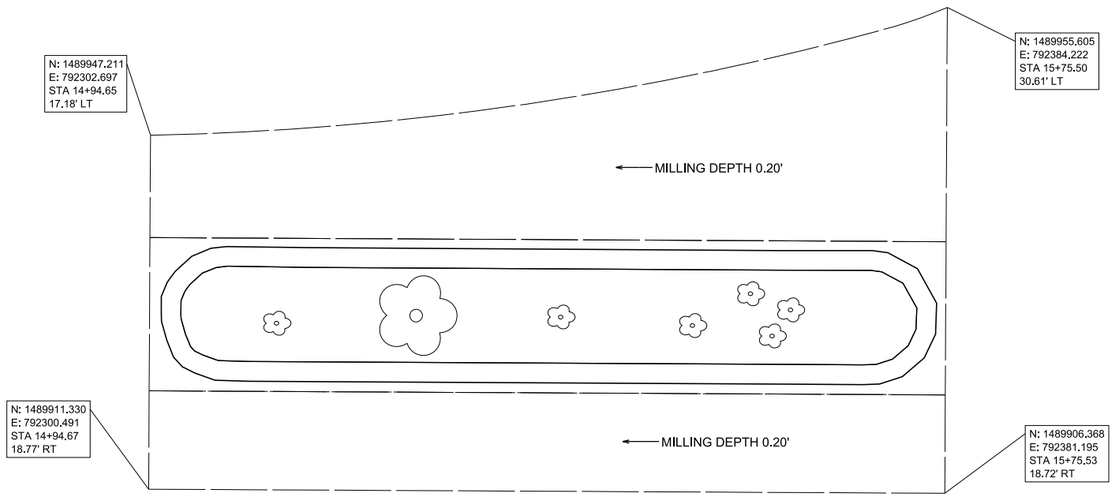


NOTE: QUANTITIES MEASURED IN CAD SEE SUMMARY FRAMES

NW CORNER US–93 & TREELINE ROAD ROAD WIDENING & NEW CURB & GUTTER



TREELINE ROAD (MEDIAN EAST SIDE OF US–93) MILLING AREA



TREELINE ROAD (MEDIAN WEST SIDE OF US–93) MILLING AREA

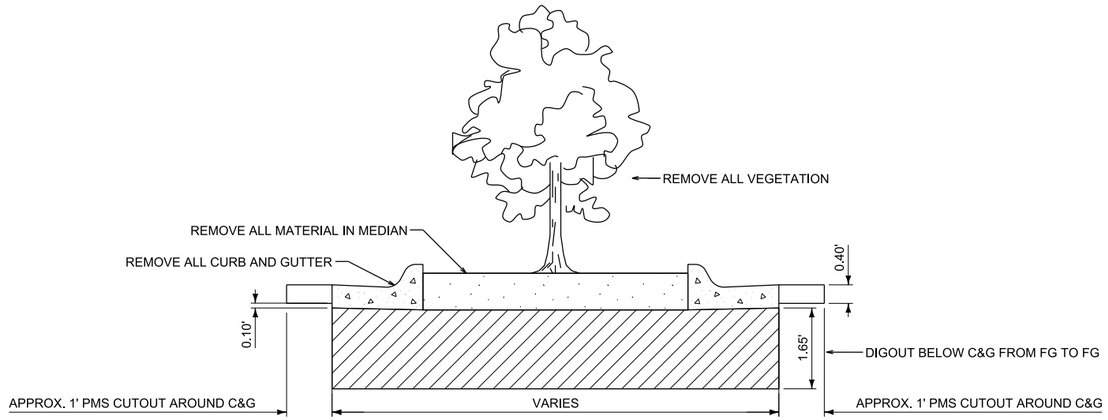
ROAD WIDENING MILLING CURB & GUTTER, SIDEWALK, SURFACING REPAIR

NO SCALE

3 / 2	MONTANA Department of Transportation	C:\DGN\9035000rddet001.dgn	DESIGNED BY	TROY JOHNSON	01/19/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
		5:15:13 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000	8

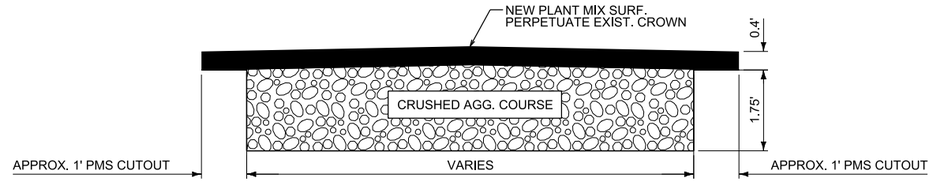
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MEDIAN REMOVAL



NOTE: REMOVAL QUANTITIES MEASURED IN CAD
SEE SUMMARY FRAMES

MEDIAN REMOVAL REPAIR

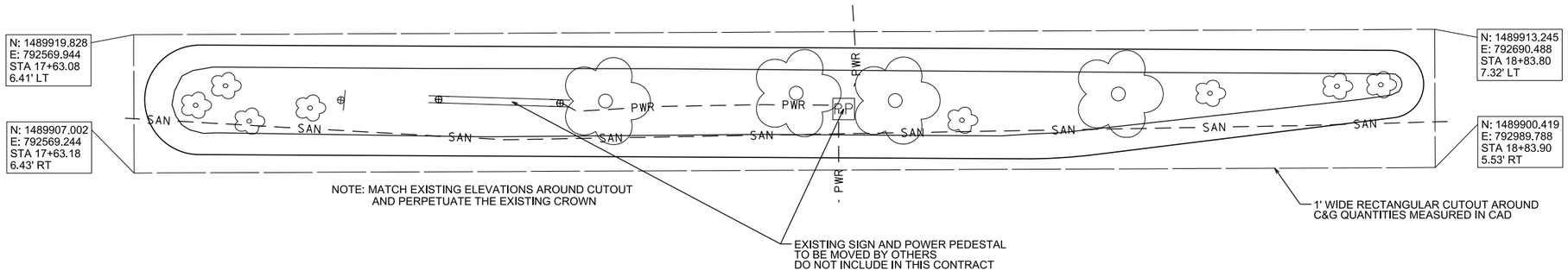


NOTE: QUANTITIES MEASURED IN CAD
SEE SUMMARY FRAMES

TREELINE ROAD (MEDIAN WEST SIDE OF US–93)

NOTE: MATCH EXISTING ELEVATIONS AROUND CUTOUT
AND PERPETUATE THE EXISTING CROWN

TREELINE ROAD (MEDIAN EAST SIDE OF US–93)



NOTE: MATCH EXISTING ELEVATIONS AROUND CUTOUT
AND PERPETUATE THE EXISTING CROWN

MEDIAN REMOVAL AND REPAIR

NO SCALE

3 1	MONTANA Department of Transportation	C:\DGN\9035000rddet001.dgn 12/20/2023 5:15:16 PM CPS - U6146	DESIGNED BY REVIEWED BY CHECKED BY	TROY JOHNSON JAKE McNEELY JERRY SABOL	01/19/2017 6/21/2019 8/15/2019	ROAD PLANS FLATHEAD COUNTY		US 93 & TREELINE ROAD (KAL) CSF= 0.99948053 / UPN 9035000	NH 5-3(136)116 9

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AWARD COPY

TREELINE ROAD

END 55' RADIUS
BEG. 170' RADIUS
N: 1489892.355
E: 792354.427
STA 145+90.76
95.28' LT

SAWCUT LINE
MATCH EXISTING
ELEVATIONS

SAWCUT AND
MATCH EXISTING
CURB & GUTTER

3,022.18 TBC
3,021.68 FL
3,021.73 FG
3,021.80 FS
N: 1489887.336
E: 792367.430
STA 145+86.51
82.00' LT

3,021.87 TBC
3,021.81 FL
3,021.86 FG

3,021.94 TBC
3,021.88 FL
3,021.93 FG

3,022.39 TBC
3,022.06 FL
3,022.11 FG

END 51' RADIUS
BEG. 164' RADIUS
3,021.69 FS
N: 1489887.561
E: 792348.238
STA 145+85.61
101.17' LT

BEG. 51' RADIUS
3,021.84 FS
N: 1489885.994
E: 792353.914
STA 145+84.38
95.42' LT

NEW SODDING

MATCH
EXISTING
SIDEWALK

TRANSITION
PANEL

REMOVE
PB

END 46' RADIUS
BEG. 159' RADIUS
3,021.77 FS
N: 1489882.672
E: 792347.188
STA 145+80.66
101.94' LT

3,021.92 FS

END 50' RADIUS
3,022.20 FS
N: 1489881.216
E: 792367.994
STA 145+80.45
81.12' LT

LANDING

NEW PED POLE

3,022.27 FS

MATCH
EXISTING
ELEVATION
3,022.39 FS

MATCH
EXISTING
ELEVATION
3,022.52 FS

3,022.58 TBC
3,022.25 FL
3,022.30 FG

3,022.41 TBC
3,022.35 FL
3,022.40 FG

3,022.48 TBC
3,022.42 FL
3,022.47 FG

BEG. 55' RADIUS
N: 1489864.227
E: 792390.130
STA 145+64.77
57.98' LT

3,022.29 FS

3,022.36 FS

3,022.61 FS

EXISTING R/W

EXIST. PULL BOX
SEE ELECTRICAL PLANS

LANDING

3,022.68 FS

3,022.69 FS

3,022.76 FS

3,022.88 TBC
3,022.55 FL
3,022.60 FG

3,022.83 TBC
3,022.50 FL
3,022.55 FG

3,022.86 FS

EXIST. SIGNAL POLE
DO NOT DISTURB

3,022.69 FS

3,022.77 FS

CONST. LIMIT &
NEW SODDING

BEG. 50' RADIUS
3,022.59 FS
N: 1489844.460
E: 792390.979
STA 145+45.09
55.98' LT

SAWCUT AND
MATCH EXISTING
CURB & GUTTER

END 35' RADIUS
3,022.91 TBC
3,022.38 FL
3,022.39 FG
N: 1489846.911
E: 792399.086
STA 145+48.01
48.03' LT

TRANSITION
PANEL

3,022.47 FS

BEG. 46' RADIUS
3,022.26 FS
N: 1489834.826
E: 792383.436
STA 145+35.03
62.94' LT

NEW SODDING

MATCH
EXISTING
SIDEWALK

3,022.51 FS

R = 51'
R = 46'
N: 1489837.698
E: 792337.526
STA 145+35.20
108.94' LT

R = 55'
R = 50'
N: 1489727.280
E: 792341.284
STA 145+36.67
105.26' LT

US-93

LEGEND	
FG	= FRONT OF GUTTER ELEV.
FL	= FLOW LINE ELEV.
TBC	= TOP BACK OF CURB ELEV.
FS	= FINISHED SURFACE ELEV.
TRW	= TOP OF RETAINING WALL ELEV.
DI	= DROP INLET
SD	= SLOTTED DRAIN

DETECTABLE WARNING DEVICES

NOTES:

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

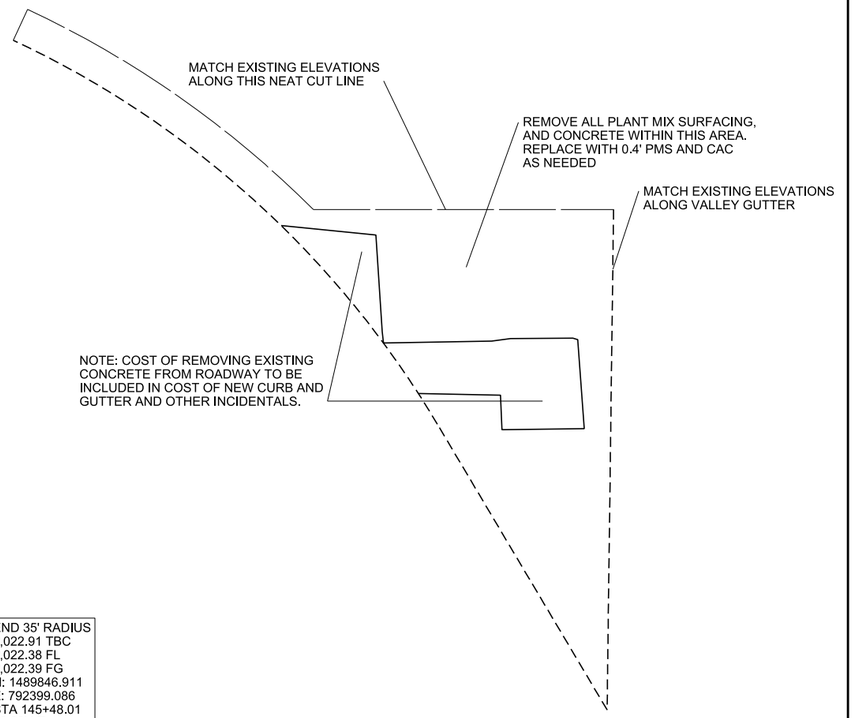
MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE.

PROVIDE DETECTABLE WARNING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICES DETAILS.

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ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.



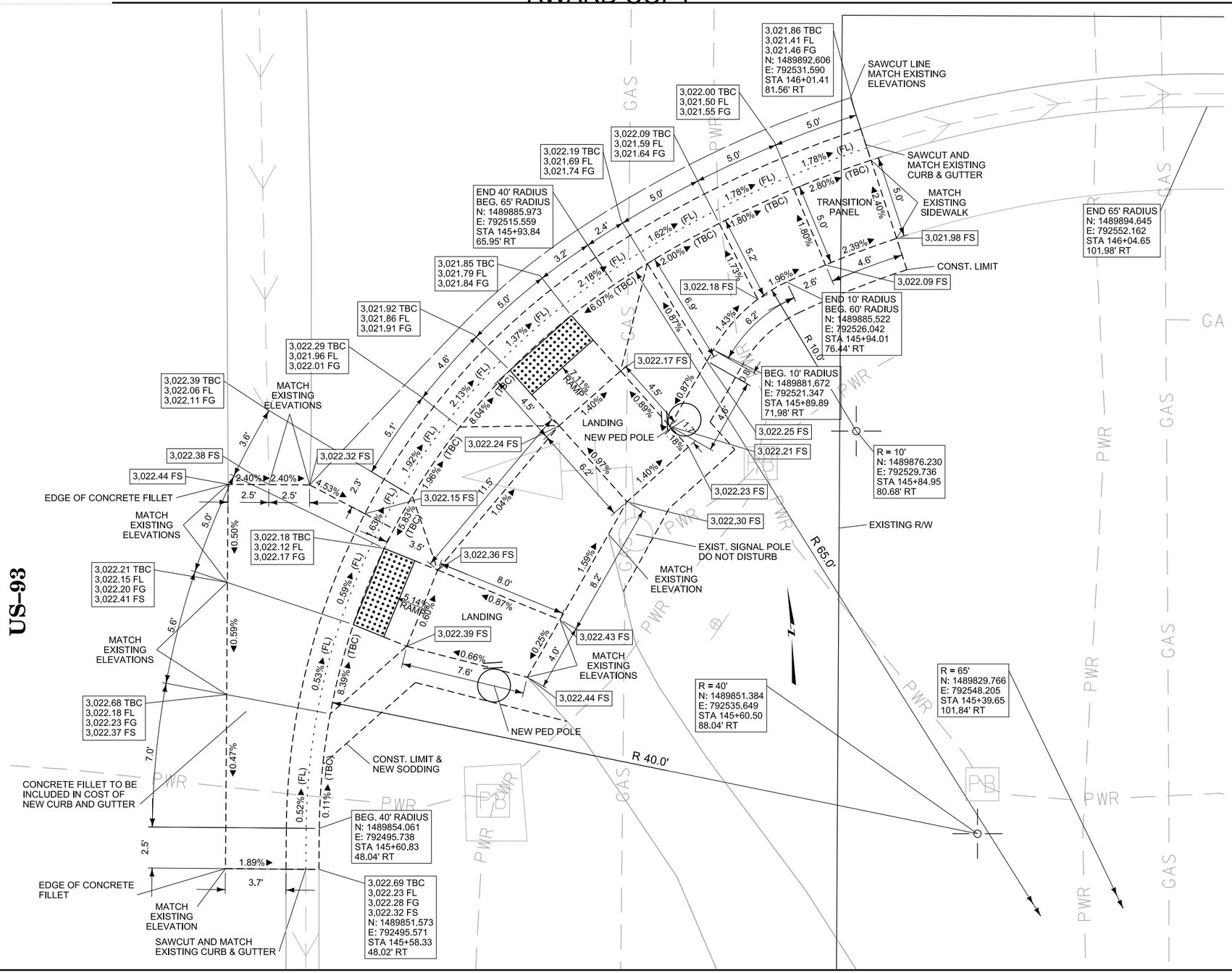
SOUTHWEST CORNER INTERSECTION OF TREELINE RD AND US-93

NO SCALE

2	MONTANA Department of Transportation	C:\DGN\9035000rddet001.dgn	DESIGNED BY	TROY JOHNSON	01/19/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
1		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
		5:15:19 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 UPN 9035000	10

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AWARD COPY



LEGEND	
FG	= FRONT OF GUTTER ELEV.
FL	= FLOW LINE ELEV.
TBC	= TOP BACK OF CURB ELEV.
FS	= FINISHED SURFACE ELEV.
TRW	= TOP OF RETAINING WALL ELEV.
DI	= DROP INLET
SD	= SLOTTED DRAIN

DETECTABLE WARNING DEVICES

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SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

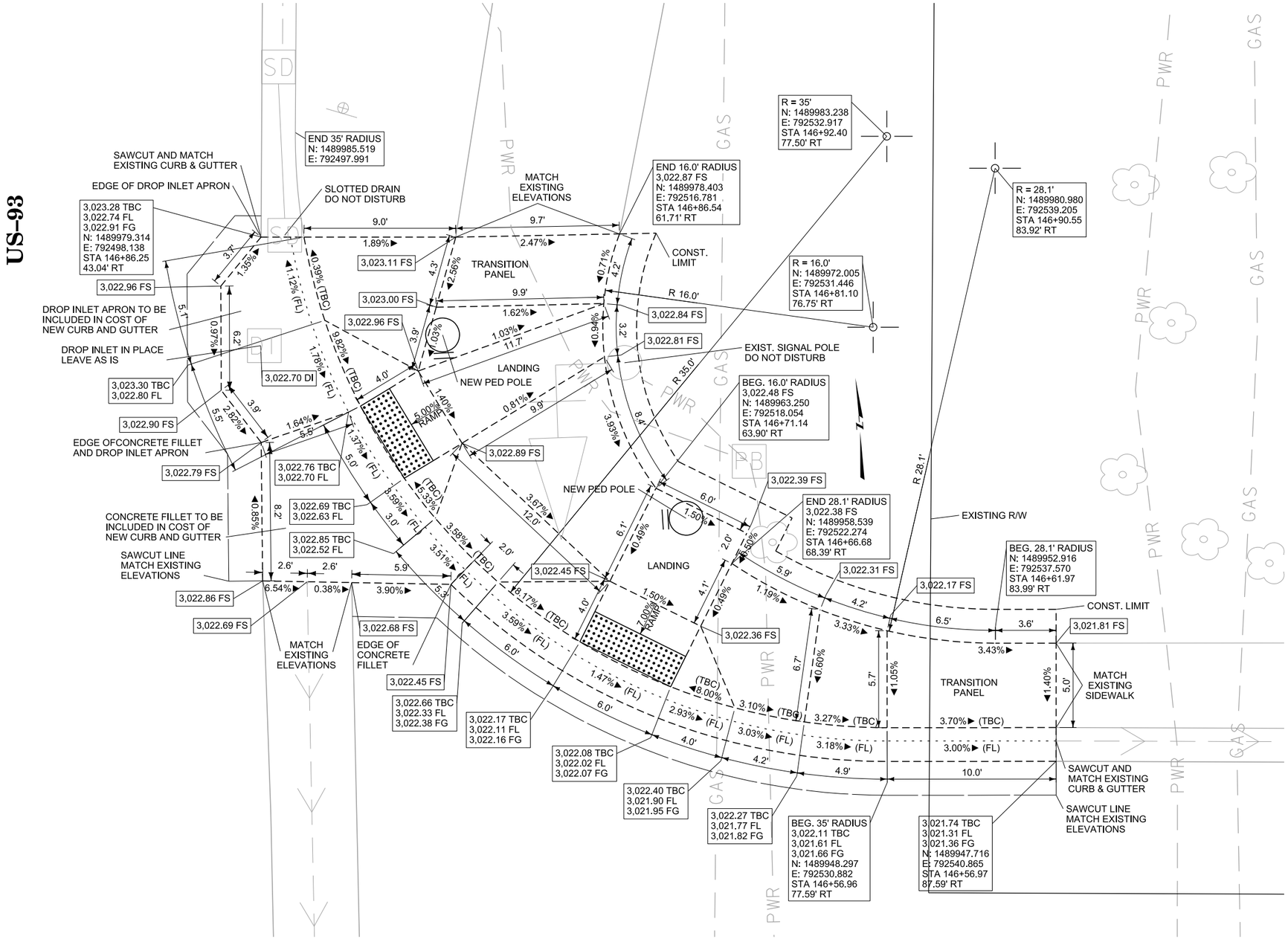
SOUTHEAST CORNER INTERSECTION OF TREELINE RD AND US–93

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9035000rddet002.dgn	DESIGNED BY	TROY JOHNSON	01/19/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
		5:15:27 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000	11

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LEGEND	
FG	= FRONT OF GUTTER ELEV.
FL	= FLOW LINE ELEV.
TBC	= TOP BACK OF CURB ELEV.
FS	= FINISHED SURFACE ELEV.
TRW	= TOP OF RETAINING WALL ELEV.
DI	= DROP INLET
SD	= SLOTTED DRAIN

DETECTABLE WARNING DEVICES

NOTES:

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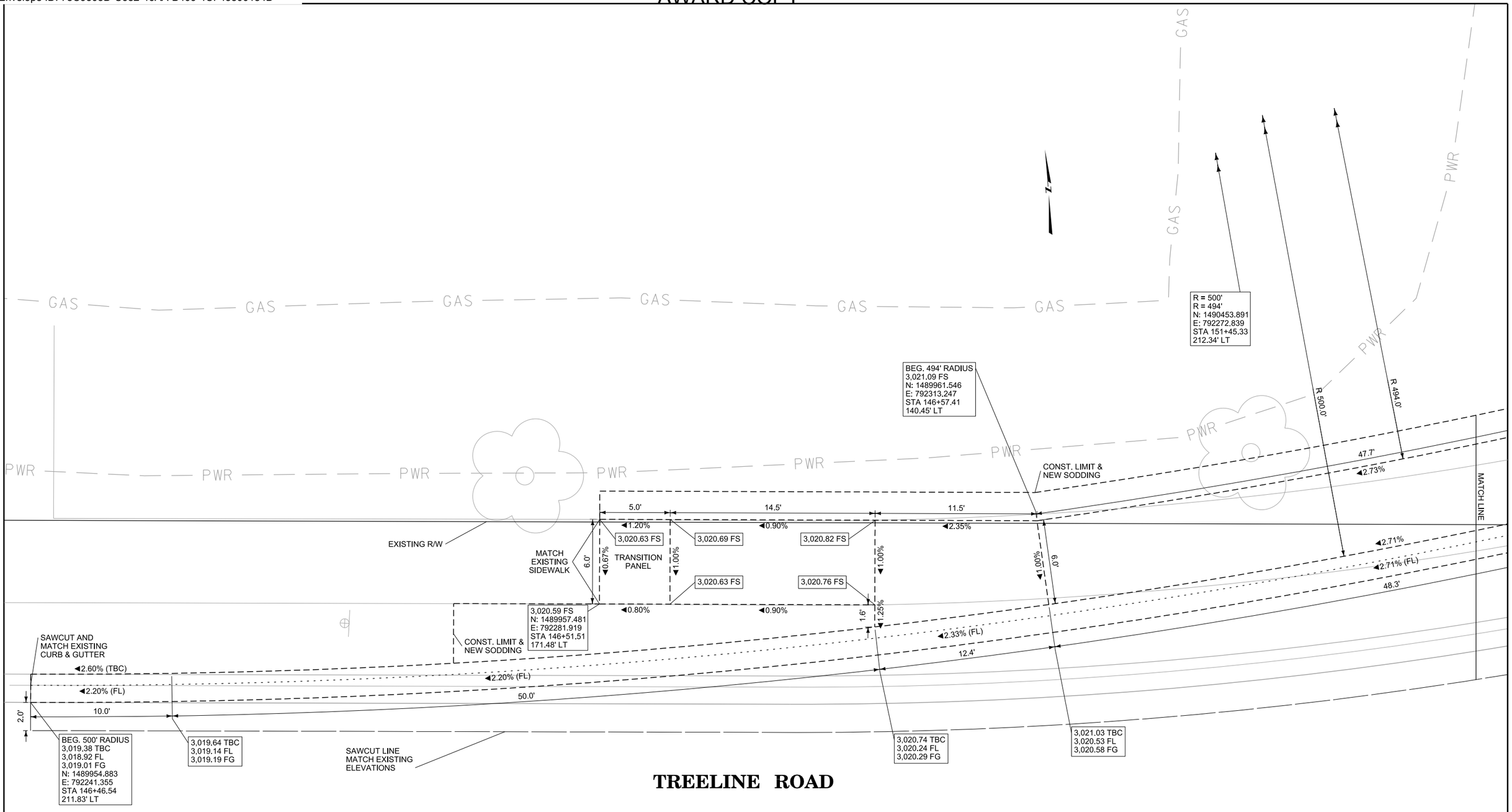
NORTHEAST CORNER INTERSECTION OF TREELINE RD AND US–93

NO SCALE

3 / 1	MONTANA Department of Transportation	C:\DGN\9035000rddet002.dgn	DESIGNED BY	TROY JOHNSON	01/19/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
		5:15:30 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000	12

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TREELINE ROAD

LEGEND	
FG	= FRONT OF GUTTER ELEV.
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DETECTABLE WARNING DEVICES

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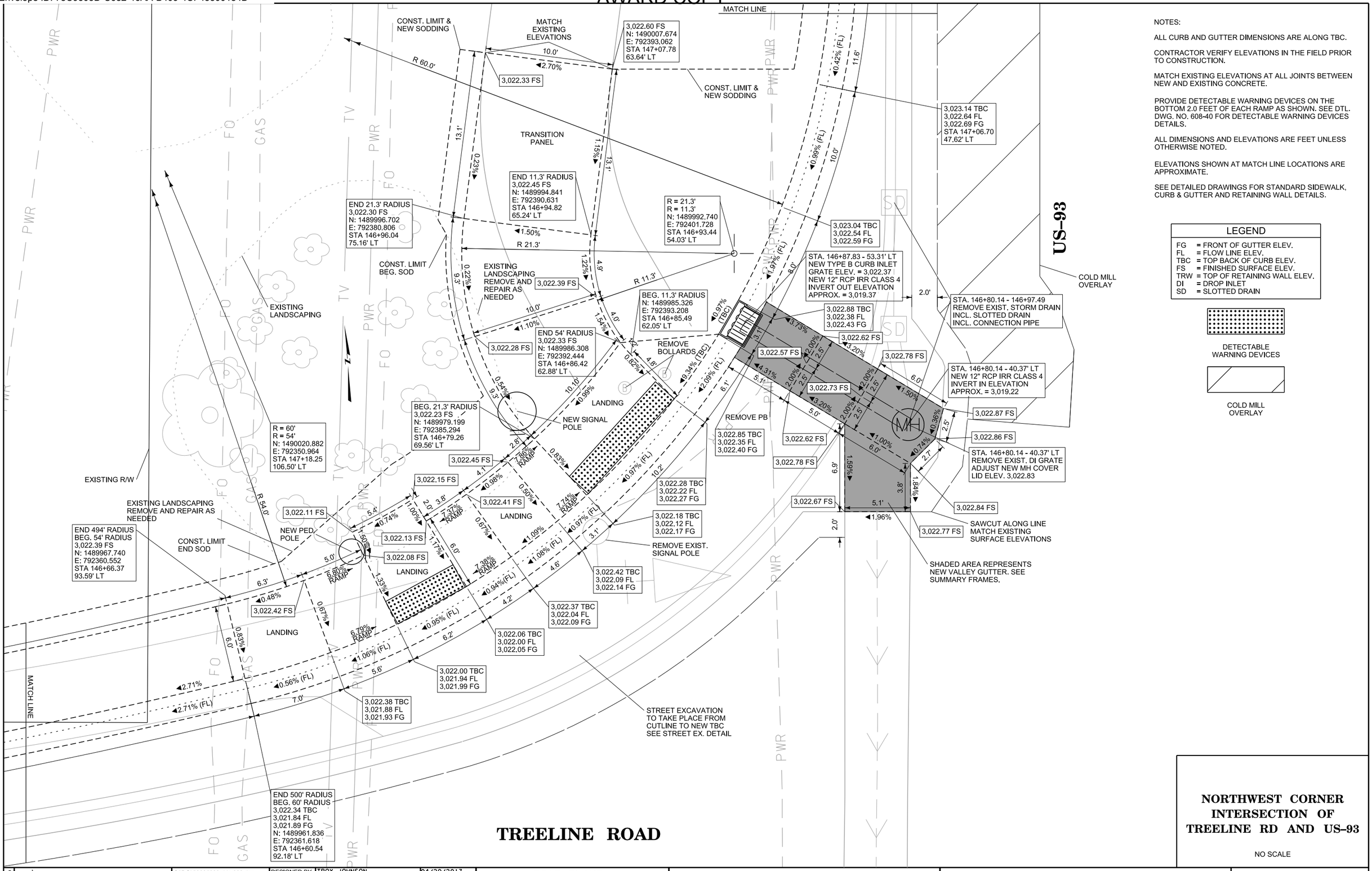
NORTHWEST CORNER INTERSECTION OF TREELINE RD AND US-93

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9035000rddet003.dgn	DESIGNED BY	TROY JOHNSON	04/20/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
		5:15:37 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000	13

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NOTES:

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DETECTABLE WARNING DEVICES

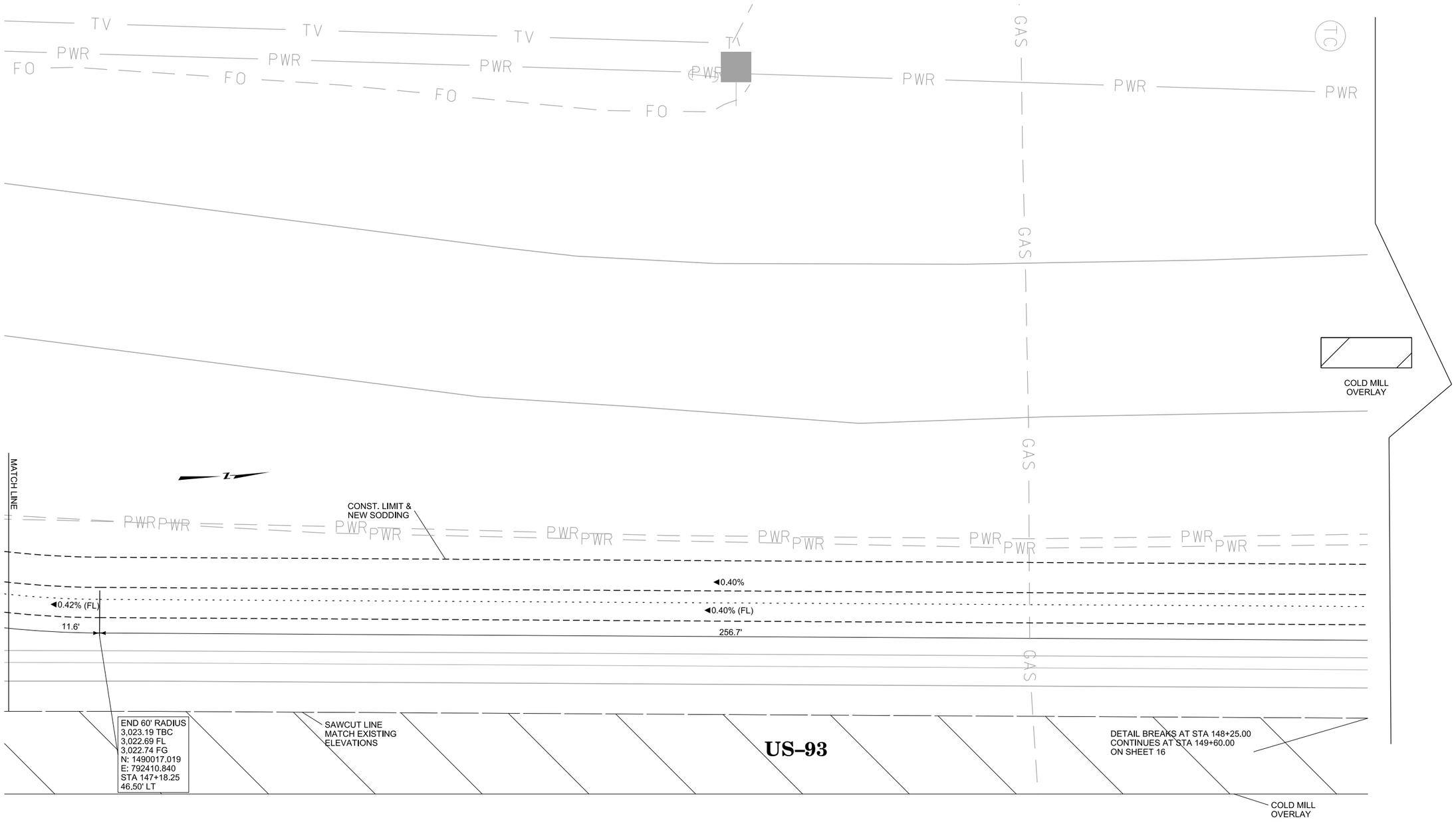
COLD MILL OVERLAY

NORTHWEST CORNER INTERSECTION OF TREELINE RD AND US–93

NO SCALE

3 / 1	MONTANA Department of Transportation	C:\DGN\9035000rddet003.dgn	DESIGNED BY	TROY JOHNSON	04/20/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL) / NH 5-3(136)116
		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019		
		5:15:41 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000 / 14

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LEGEND	
FG	= FRONT OF GUTTER ELEV.
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TBC	= TOP BACK OF CURB ELEV.
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DETECTABLE WARNING DEVICES

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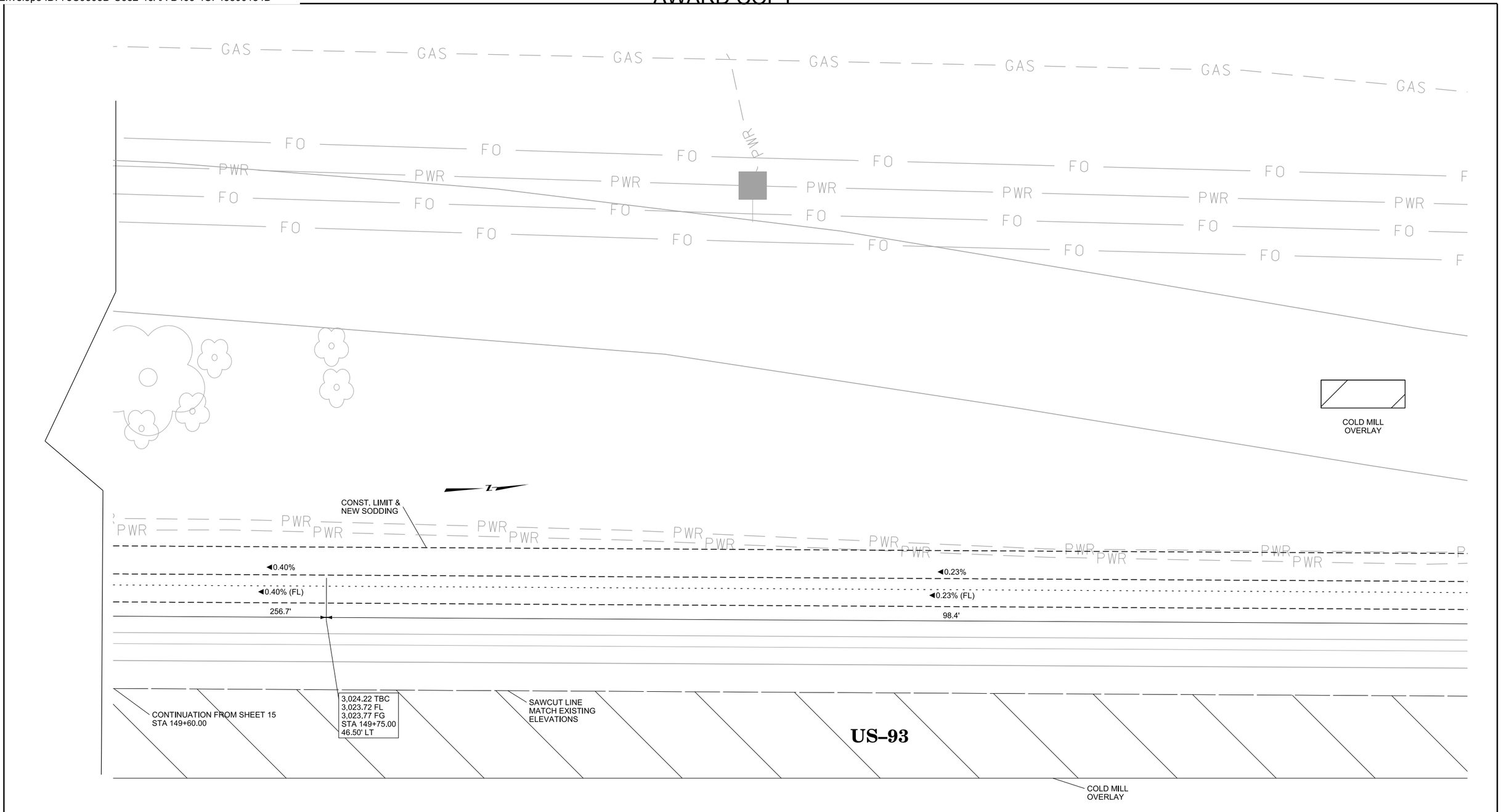
NORTHWEST CORNER INTERSECTION OF TREELINE RD AND US–93

NO SCALE

2	MONTANA Department of Transportation	C:\DGN\9035000rddet003.dgn	DESIGNED BY	TROY JOHNSON	04/20/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
1		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
		5:15:44 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000	15

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LEGEND	
FG	= FRONT OF GUTTER ELEV.
FL	= FLOW LINE ELEV.
TBC	= TOP BACK OF CURB ELEV.
FS	= FINISHED SURFACE ELEV.
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DETECTABLE WARNING DEVICES

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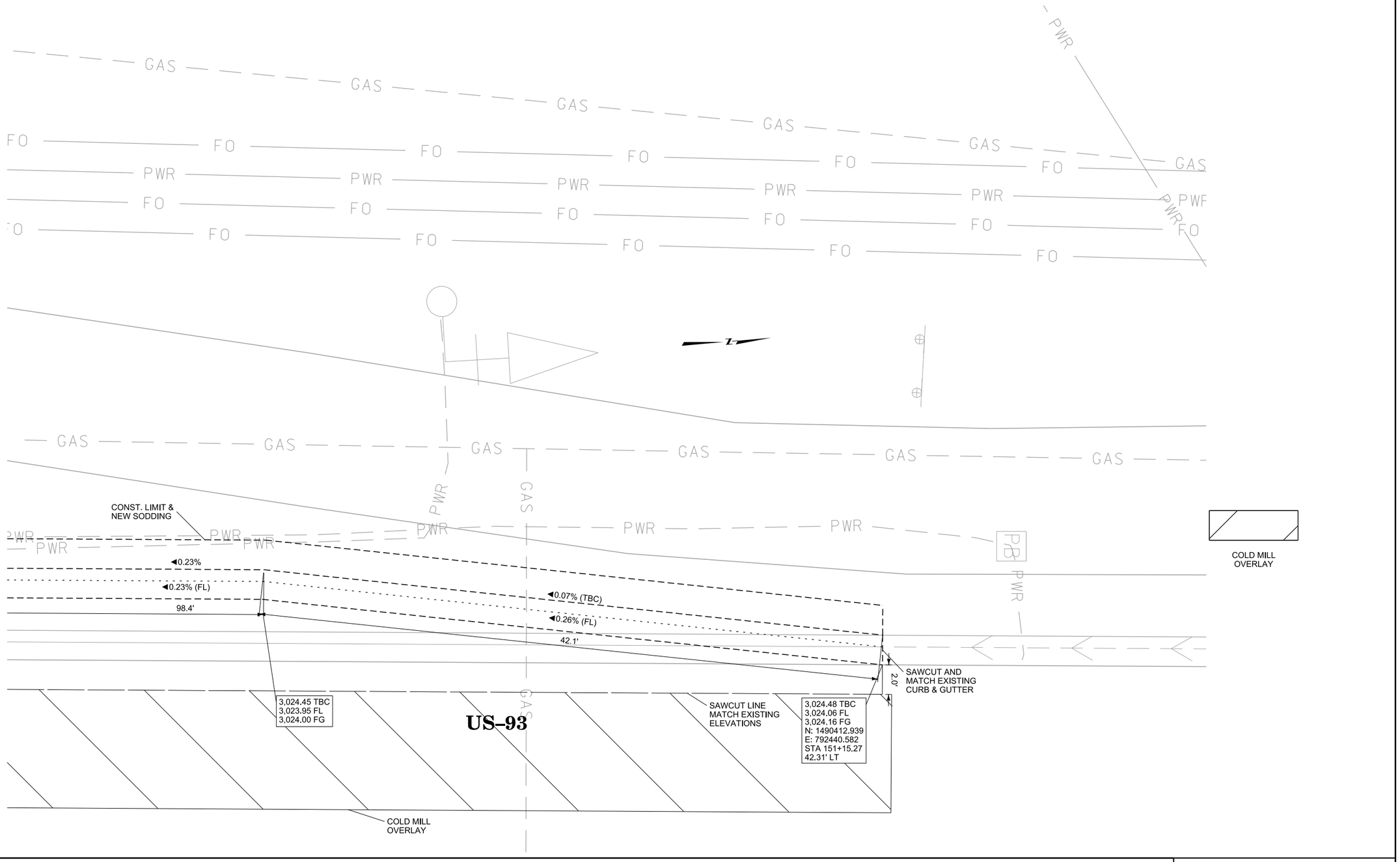
NORTHWEST CORNER INTERSECTION OF TREELINE RD AND US–93

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9035000rddet004.dgn	DESIGNED BY	TROY JOHNSON	04/20/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
		5:15:51 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000	16

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LEGEND	
FG	= FRONT OF GUTTER ELEV.
FL	= FLOW LINE ELEV.
TBC	= TOP BACK OF CURB ELEV.
FS	= FINISHED SURFACE ELEV.
TRW	= TOP OF RETAINING WALL ELEV.
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DETECTABLE WARNING DEVICES

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NORTHWEST CORNER INTERSECTION OF TREELINE RD AND US–93

NO SCALE

3 / 1	MONTANA Department of Transportation	C:\DGN\9035000rddet004.dgn	DESIGNED BY	TROY JOHNSON	04/20/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
		5:15:55 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000	17

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12+75.39 (TREELINE)
36" RCP STORM DRAIN
APPROX DEPTH 6.5'
LEAVE IN PLACE

UTILITY CROSSINGS
(TREELINE RD ALIGNMENT)

12+75.39	36" RCP STORM DRAIN - DEPTH APPROX. 6.5'
13+48.15	8" SANITARY SEWER - DEPTH UNKNOWN
13+61.61	12" PVC WATER LINE - DEPTH UNKNOWN
15+49.98	UG FIBER OPTIC - DEPTH UNKNOWN
15+51.71	UG TELEPHONE LINE - DEPTH UNKNOWN
15+52.55	4" PLASTIC GAS LINE - DEPTH UNKNOWN
15+58.39	OH CABLE TV - CLEARANCE UNKNOWN
15+60.39	OH POWER LINE - CLEARANCE UNKNOWN
15+61.65	UG FIBER OPTIC - DEPTH UNKNOWN
15+62.39	OH FIBER OPTIC CABLE - CLEARANCE UNKNOWN
15+64.39	OH FIBER OPTIC CABLE - CLEARANCE UNKNOWN
15+94.60	UG POWER LINE - DEPTH UNKNOWN

16+04.02 (TREELINE)
18" RCP STORM DRAIN
APPROX DEPTH 4.3'
LEAVE IN PLACE

N

POT 10+00.00

10

SEAL & COVER BOUNDARY
TREELINE STA 10+11.17
(SEE SIGNING PLANS)

VERIZON

FOR CURB RAMP DETAILS
SEE SHEET 14

R/W

◄TREELINE RD

S 86° 26' 44" E

US - 93

R/W

FOR CURB RAMP DETAILS
SEE SHEET 10

STARBUCKS
COFFEE

145

TREELINE RD ALIGNMENT

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9035000rdpln002.dgn	DESIGNED BY	TROY JOHNSON	05/05/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
1		5:16:01 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000	18

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UTILITY CROSSINGS
(TREELINE RD ALIGNMENT)

17+12.00	4" PLASTIC GAS LINE - (COULD NOT BE LOCATED)
17+16.80	UG POWER LINE - DEPTH UNKNOWN
17+39.60	UG POWER LINE - DEPTH UNKNOWN
17+43.70	6" PLASTIC GAS LINE - DEPTH UNKNOWN
17+48.20	12" PVC SAN. SEWER - DEPTH APPROX. 9.1'
17+52.27	UG POWER LINE DEPTH UNKNOWN
17+54.42	UG TELEPHONE LINE - DEPTH UNKNOWN
17+58.53	12" PVC WATER LINE - DEPTH UNKNOWN
18+28.52	UG POWER LINE DEPTH UNKNOWN
19+24.05	4" PVC SAN. SEWER FORCE MAIN - DEPTH UNKNOWN
19+74.49	4" PVC SAN. SEWER FORCE MAIN - DEPTH UNKNOWN

US - 93

ROCKY MOUNTAIN BANK

20

POT 22+44.00

FOR CURB RAMP DETAILS SEE SHEET 12

R/W

SEAL & COVER BOUNDARY TREELINE STA 20+44.41 (SEE SIGNING PLANS)

S 86° 26' 44" E

R/W

FOR CURB RAMP DETAILS SEE SHEET 11

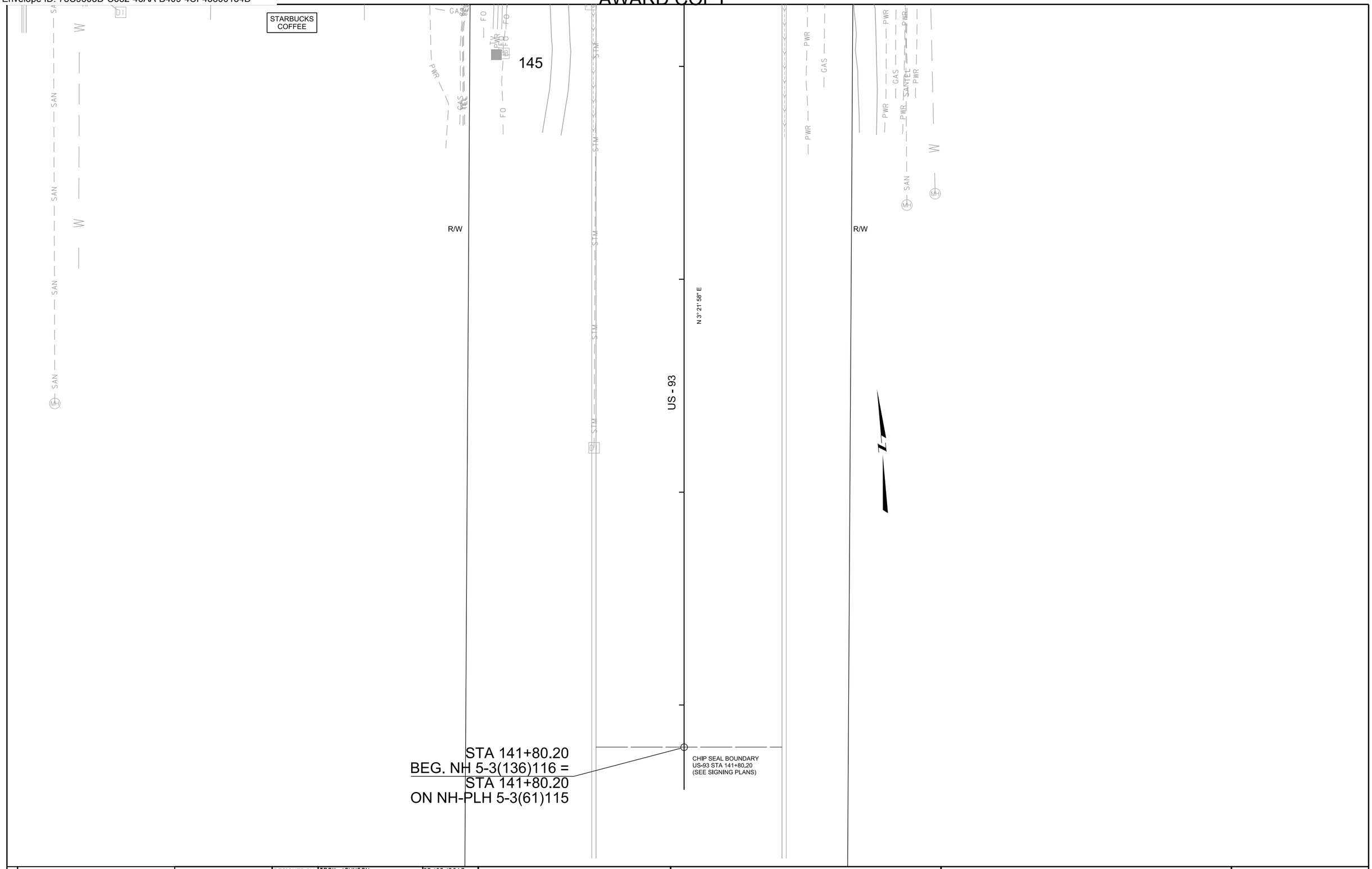
GREAT CLIPS

TREELINE RD ALIGNMENT

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9035000rdpln002.dgn	DESIGNED BY	TROY JOHNSON	05/05/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL) / NH 5-3(136)116
2		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019		
1		5:16:04 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000 / 19

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3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9035000rdpln001.dgn	DESIGNED BY	TROY JOHNSON	05/05/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019			
1		5:16:10 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 UPN 9035000	20

Docusign Envelope ID: 78C9503D-C682-46AA-B409-4CF43300184D

AWARD COPY

UTILITY CROSSINGS
(US-93 ALIGNMENT)

145+65.52 UG POWER LINE - DEPTH UNKNOWN
147+82.79 6" PLASTIC GAS LINE - DEPTH UNKNOWN
148+21.09 UG TELEPHONE LINE - DEPTH UNKNOWN
148+22.41 UG FIBER OPTIC - DEPTH UNKNOWN

146+80.19 (US-93)
10" STORM DRAIN
APPROX. DEPTH 3.7'
LEAVE IN PLACE

147+97.77 (US-93)
24" CMP
DEPTH UNKNOWN
LEAVE IN PLACE

COLD MILL OVERLAY

COLD MILL OVERLAY

VERIZON

ROCKY MOUNTAIN BANK

US - 93

FOR CURB RAMP DETAILS SEE SHEET 14

FOR CURB RAMP DETAILS SEE SHEET 12

FOR CURB RAMP DETAILS SEE SHEET 11

FOR CURB RAMP DETAILS SEE SHEET 10

R/W

◄TREELINE RD

S 86° 26' 44" E

STARBUCKS COFFEE

146+80.14 - 40.37' LT
REMOVE EXIST. DI GRATE
ADJUST NEW MH COVER
LID ELEVATION 3,022.83
NEW 12" RCP
APPROX. INVERT IN ELEV. = 3,019.22

146+80.14 - 146+97.49 - 41' LT
REMOVE EXIST. SLOTTED DRAIN
REMOVE EXIST. 12" CMP PIPE

146+87.82 - 53.31' LT
NEW CURB INLET TYPE B
GRATE ELEVATION = 3,022.37
APROX. INVERT OUT ELEV. = 3,019.37

146+79.86 - 40.81' RT
DROP INLET IN PL. - USE AS-IS

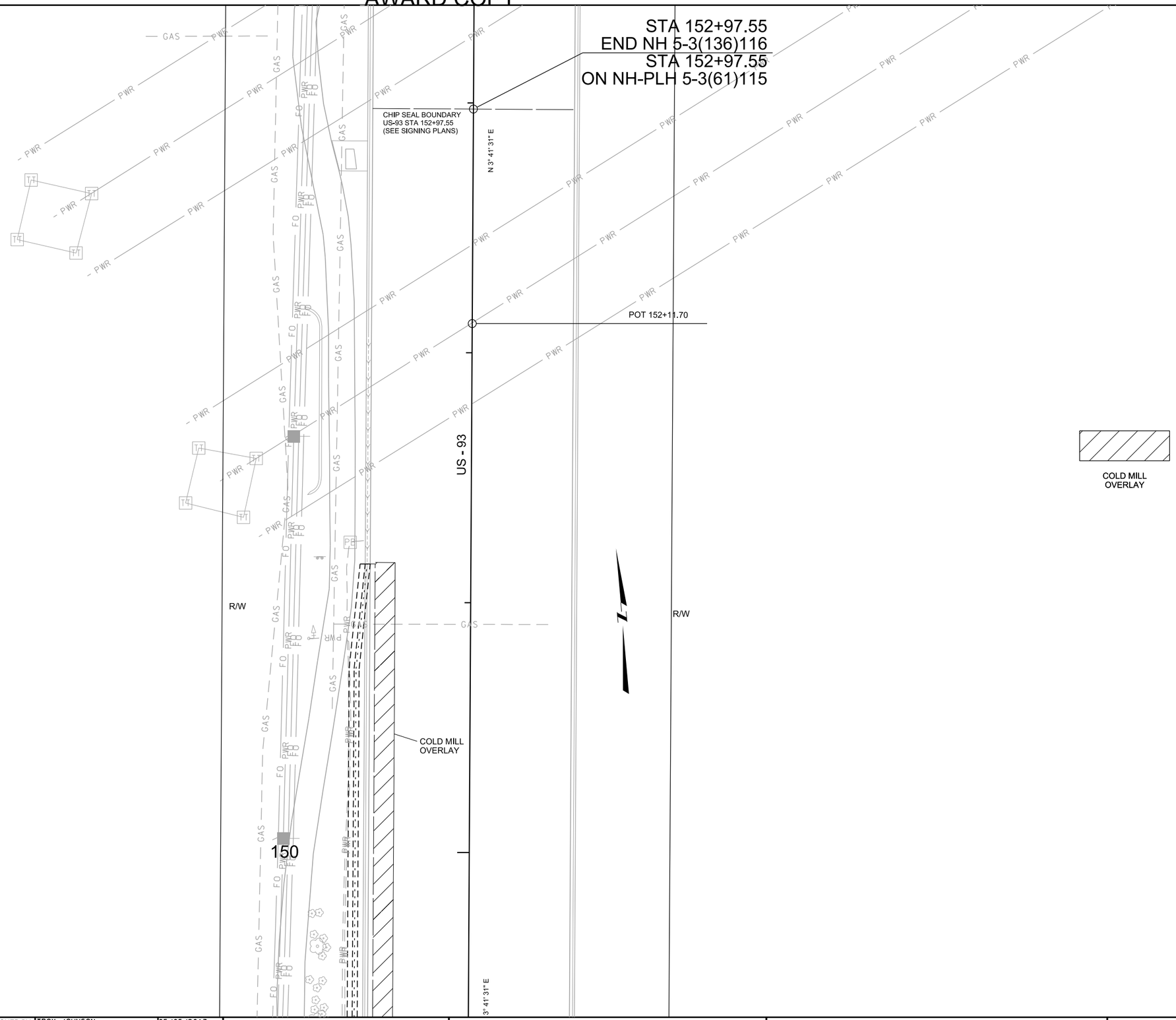
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9035000rdpln001.dgn	DESIGNED BY	TROY JOHNSON	05/05/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL) / NH 5-3(136)116
2		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019		
1		5:16:13 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000 / 21

Docusign Envelope ID: 78C9503D-C682-46AA-B409-4CF43300184D

AWARD COPY

UTILITY CROSSINGS
(US-93 ALIGNMENT)

150+91.32 4" PLASTIC GAS LINE - DEPTH UNKNOWN
151+79.53 OH POWER LINE - CLEARANCE UNKNOWN
152+12.03 OH POWER LINE - CLEARANCE UNKNOWN
152+43.34 OH POWER LINE - CLEARANCE UNKNOWN



3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9035000rdpln001.dgn	DESIGNED BY	TROY JOHNSON	05/05/2017	ROAD PLANS	US 93 & TREELINE ROAD (KAL) / NH 5-3(136)116
2		12/20/2023	REVIEWED BY	JAKE McNEELY	6/21/2019		
1		5:16:15 PM CPS - U6146	CHECKED BY	JERRY SABOL	8/15/2019	FLATHEAD COUNTY	CSF= 0.99948053 / UPN 9035000 / 22

Docusign Envelope ID: 78C9503D-C682-46AA-B409-4CF43300184D

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV		SQ. FOOT
SIGNS-ALUM REFL SHEET XI	103.0	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		POUNDS
POLES-TREATED WOOD 4 IN		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		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	11	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

Docusign Envelope ID: 78C9503D-C682-46AA-B409-4CF43300184D

AWARD COPY

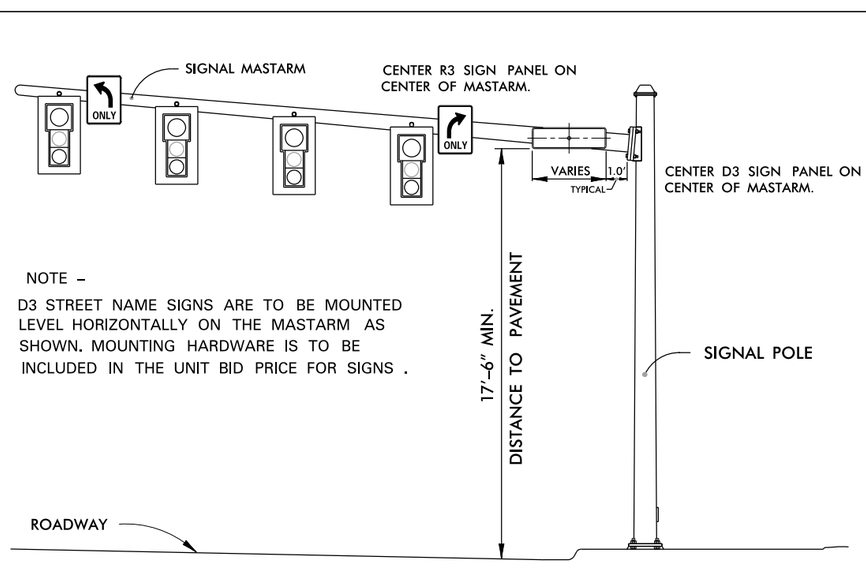
SIGN LOCATION AND SPECIFICATIONS

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
142+05.00 Rt.		R3-8d	60"x30"	XI			MOUNT	ON MAST ARM						12.5 (XI)									1					
146+81 Lt.		R3-5L	30"x36"	XI			MOUNT	ON MAST ARM						7.5 (XI)									1					
146+81 Lt.		R3-5R	30"x36"	XI			MOUNT	ON MAST ARM						7.5 (XI)									1					
146+81 Lt.		OH-D3	36"x12"	IV	XI		MOUNT	ON MAST ARM						3.0 (XI)														US 93
145+79 Rt.		R3-5L	30"x36"	XI			MOUNT	ON MAST ARM						7.5 (XI)									1					
145+79 Rt.		R3-5R	30"x36"	XI			MOUNT	ON MAST ARM						7.5 (XI)									1					
145+79 Rt.		OH-D3	36"x12"	IV	XI		MOUNT	ON MAST ARM						3.0 (XI)														US 93
145+60.00 Lt.		R3-5L	30"x36"	XI			MOUNT	ON MAST ARM						7.5 (XI)									1					
145+60.00 Lt.		R3-5R	30"x36"	XI			MOUNT	ON MAST ARM						7.5 (XI)									1					
145+60.00 Lt.		OH-D3	72"x12"	IV	XI		MOUNT	ON MAST ARM						6.0 (XI)									1					TREELINE RD
146+80.00 Rt.		R3-5L	30"x36"	XI			MOUNT	ON MAST ARM						7.5 (XI)									1					
146+80.00 Rt.		R3-5R	30"x36"	XI			MOUNT	ON MAST ARM						7.5 (XI)														
146+80.00 Rt.		OH-D3	72"x12"	IV	XI		MOUNT	ON MAST ARM						6.0 (XI)									1					TREELINE RD
149+25.00 Lt.		R3-8d	60"x30"	XI			MOUNT	ON MAST ARM						12.5 (XI)									1					
												TOTAL		103.0 (XI)									11					

3	MONTANA Department of Transportation	C:\DGN\9035000sisum001.dgn	DESIGNED BY	Roger D. Schroeder	4/2018	SIGNING PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		4/24/2024	REVIEWED BY	Terry Hayward	06/2018			
1		10:38:28 AM CPS - U4044	CHECKED BY	Ben Nunnallee	10/2023	FLATHEAD COUNTY	UPN 9035000	S2

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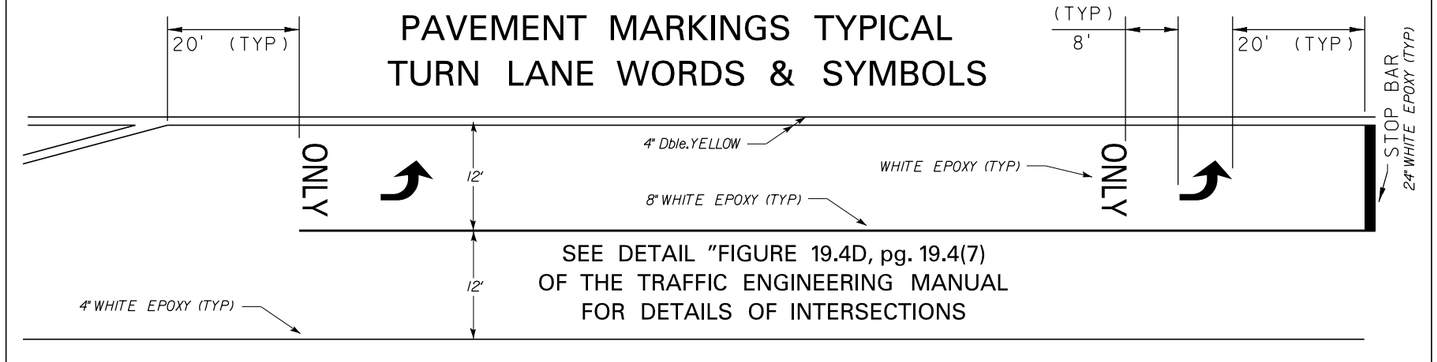
DETAILS



D3 & R3 OVERHEAD SIGNS DETAIL

NO SCALE

MEDIAN DETAIL "B"

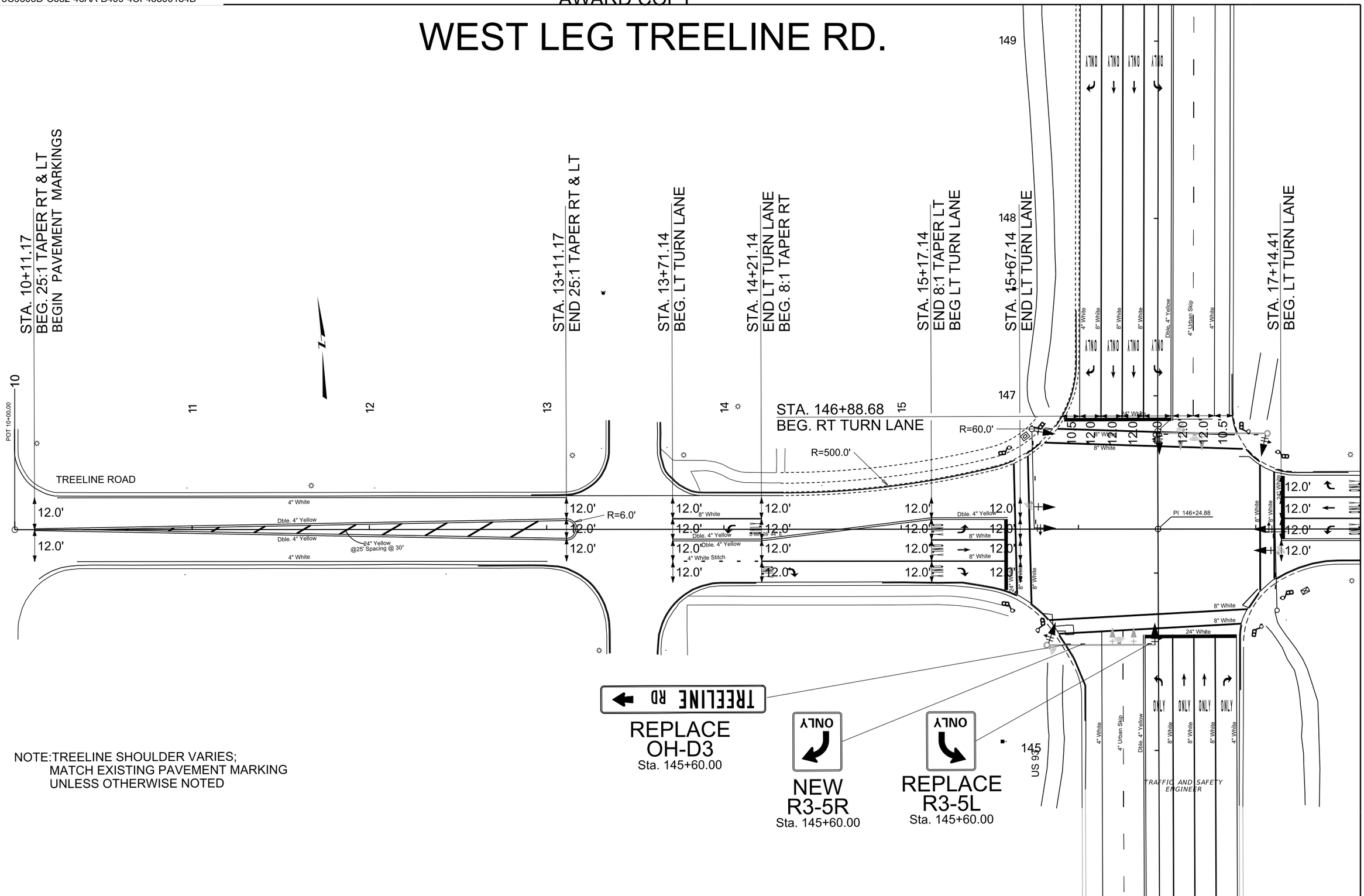


3	MONTANA Department of Transportation	C:\DGN\9035000sisum001.dgn	DESIGNED BY	Roger D. Schroeder	4/2018	SIGNING PLANS		US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		4/24/2024	REVIEWED BY	Terry Hayward	06/2018				
1		10:38:30 AM CPS - U4044	CHECKED BY	Ben Nunnallee	10/2023	FLATHEAD COUNTY		UPN 9035000	S3

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WEST LEG TREELINE RD.



REPLACE
OH-D3
Sta. 145+60.00

NEW
R3-5R
Sta. 145+60.00

REPLACE
R3-5L
Sta. 145+60.00

NOTE:TREELINE SHOULDER VARIES;
MATCH EXISTING PAVEMENT MARKING
UNLESS OTHERWISE NOTED

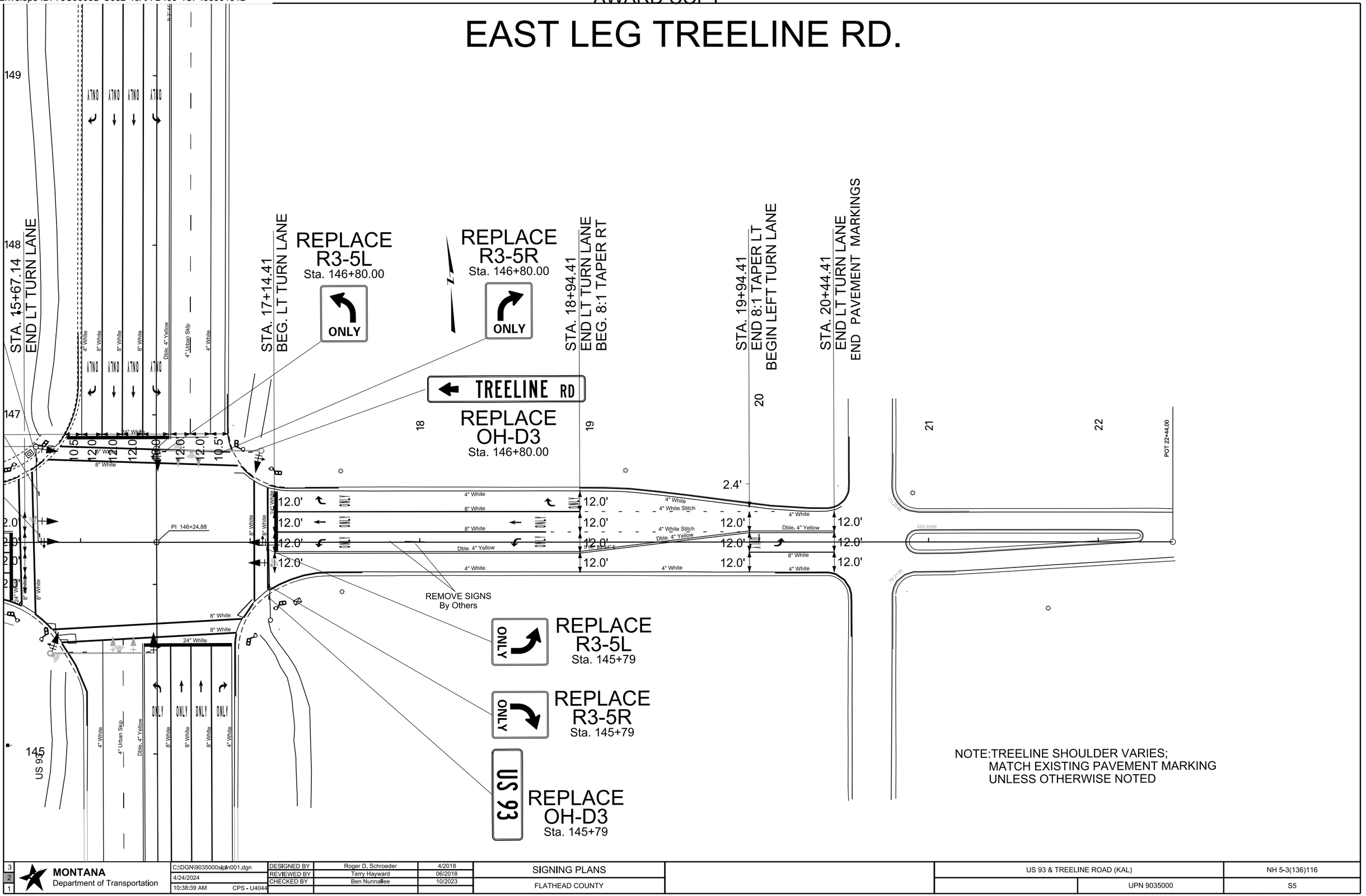
TRAFFIC AND SAFETY ENGINEER

3	MONTANA Department of Transportation	C:\DGN\9035000sipln001.dgn	DESIGNED BY	Roger D. Schroeder	4/2018	SIGNING PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		4/24/2024	REVIEWED BY	Terry Hayward	06/2018			
1		10:38:37 AM CPS - U4044	CHECKED BY	Ben Nunnallee	10/2023	FLATHEAD COUNTY	UPN 9035000	S4

Docusign Envelope ID: 78C9503D-C682-46AA-B409-4CF43300184D

AWARD COPY

EAST LEG TREELINE RD.

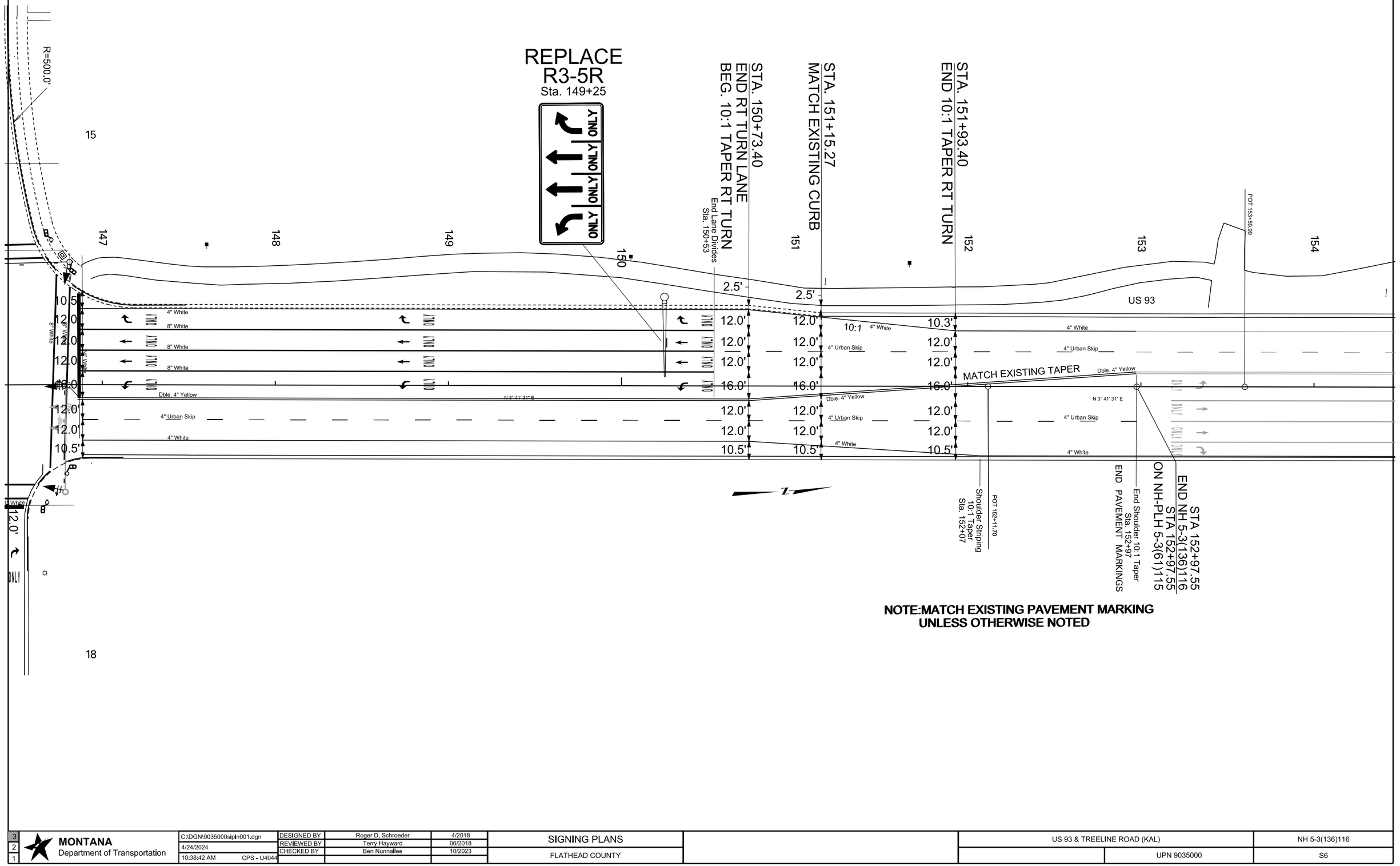


NOTE:TREELINE SHOULDER VARIES;
MATCH EXISTING PAVEMENT MARKING
UNLESS OTHERWISE NOTED

3	MONTANA Department of Transportation	C:\DGN\9035000sipln001.dgn	DESIGNED BY	Roger D. Schroeder	4/2018	SIGNING PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		4/24/2024	REVIEWED BY	Terry Hayward	06/2018			
1		10:38:39 AM CPS - U4044	CHECKED BY	Ben Nunnallee	10/2023	FLATHEAD COUNTY	UPN 9035000	S5

Docusign Envelope ID: 78C9503D-C682-46AA-B409-4CF43300184D

NORTH LEG US 93



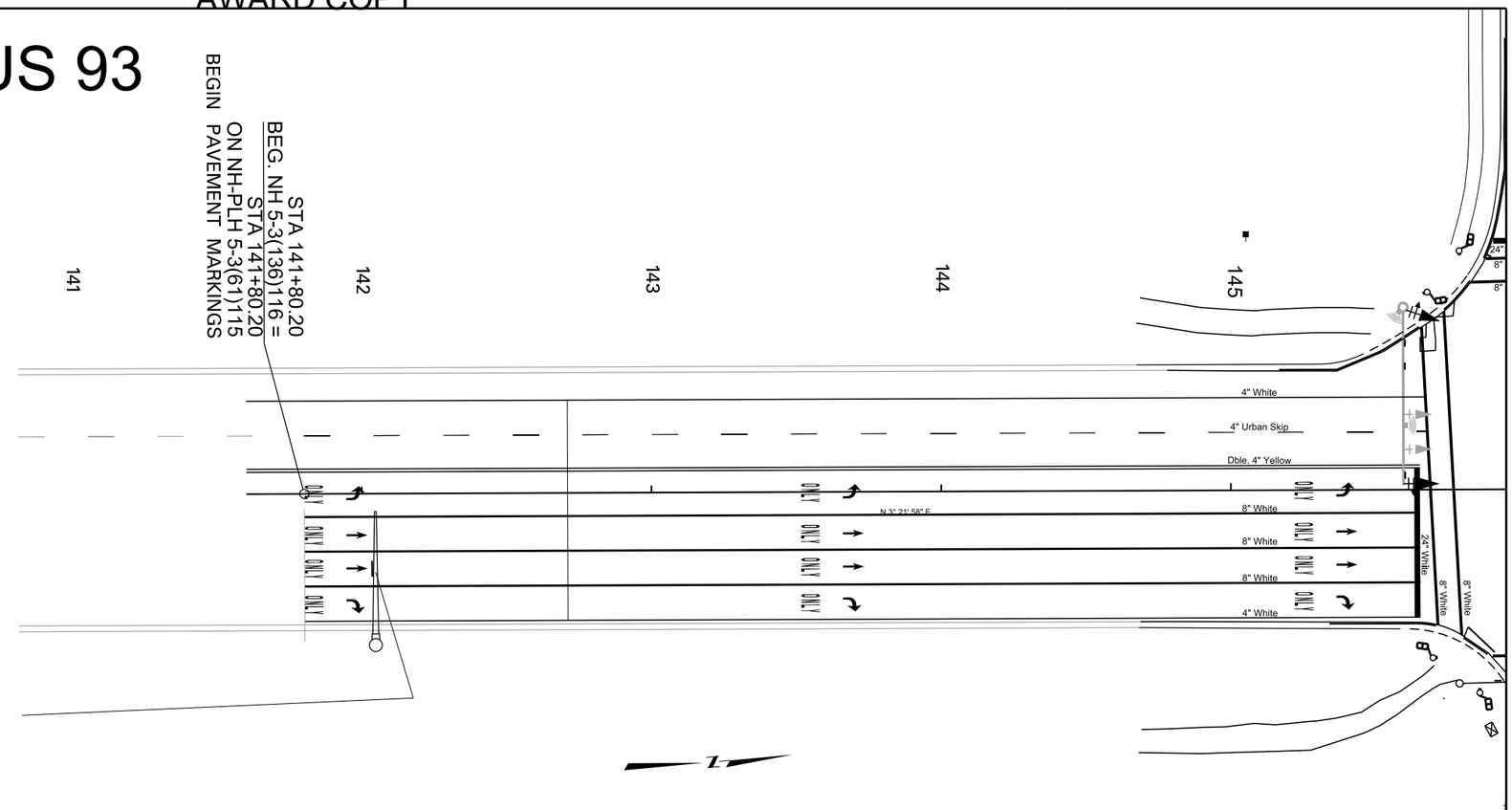
NOTE:MATCH EXISTING PAVEMENT MARKING UNLESS OTHERWISE NOTED

3	MONTANA Department of Transportation	C:\DGN\9035000sigIn001.dgn	DESIGNED BY	Roger D. Schroeder	4/2018	SIGNING PLANS	US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		4/24/2024	REVIEWED BY	Terry Hayward	06/2018			
1		10:38:42 AM CPS - U4044	CHECKED BY	Ben Nunnallee	10/2023	FLATHEAD COUNTY	UPN 9035000	S6

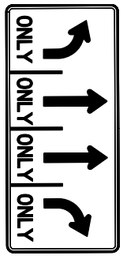
Docusign Envelope ID: 78C9503D-C682-46AA-B409-4CF43300184D

AWARD COPY

SOUTH LEG US 93



REPLACE
R3-5R
Sta. 142+05



3	MONTANA Department of Transportation	C:\DGN\9035000sigln002.dgn	DESIGNED BY	Roger D. Schroeder	4/2018	SIGNING PLANS		US 93 & TREELINE ROAD (KAL)	NH 5-3(136)116
2		4/24/2024	REVIEWED BY	Terry Hayward	06/2018				
1		10:38:48 AM CPS - U4044	CHECKED BY	Ben Nunnallee	10/2023	FLATHEAD COUNTY		UPN 9035000	S7

Docusign Envelope ID: 78C9503D-C682-46AA-B409-4CF43300184D

AWARD COPY

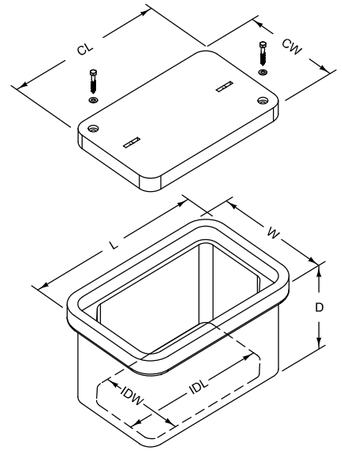
ELECTRICAL QUANTITY SUMMARY

	ITEM NO.	MATERIAL	UNIT	TOTAL
	616 343 920	CONDUIT - PLASTIC 2 IN	LNFT	560
	616 783 007	PULL BOX-COMPOSITE TYPE 2	EACH	1
	617 000 000	FOUNDATION - CONCRETE	CUYD	8.03
	617 033 514	CABLE - COPPER 9AWG14 - 600V	LNFT	900
	617 123 110	CONDUCTOR - COPPER AWG10-600V	LNFT	110
	617 503 130	SIG - TRAF 3 COL - 1 WAY 12-12-12	EACH	3
	617 513 125	SIG - TRAF 4 COL - 1 WAY 12-12-12-12	EACH	4
	617 523 127	SIG - TRAF 5 COL - 1 WAY 12-12-12-12	EACH	2
	617 553 020	SIG - PEDESTRIAN TYPE 2	EACH	8
*	617 605 040	CONTLR/TRAF - ACTUATOR	EACH	1
	617 673 100	SIG STANDARD TYPE 1-100	EACH	7
	617 693 909	SIG STANDARD 2-A-900-9	EACH	1
*	617 725 601	SIG STANDARD MODIFY	EACH	1
	617 781 000	REMOVE AND SALVAGE MISC ELECTRICAL	LS	1
	617 783 030	REMOVE AND RESET MISC ELECTRICAL	LS	1
	617 903 255	PUSH BUTTON - PEDESTRIAN - TACTILE	EACH	8

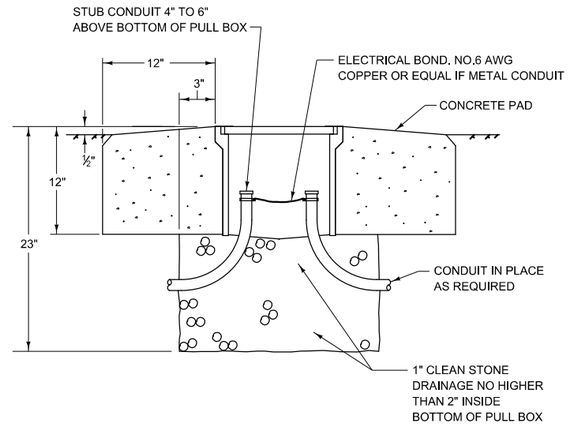
* - INDICATES STATE FURNISHED MATERIAL

QUANTITY SUMMARY

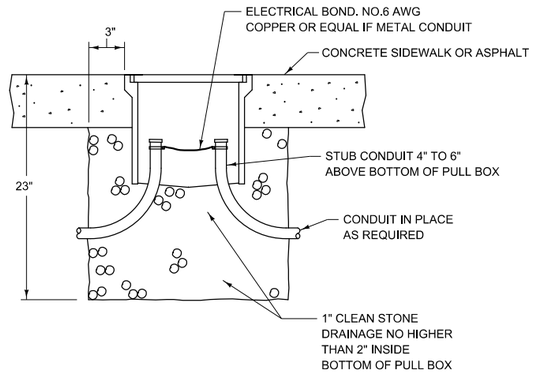
NO SCALE



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

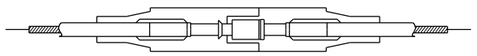
REVISED: 15-APR-2014

Docusign Envelope ID: 78C9503D-C682-46AA-B409-4CF43300184D

AWARD COPY

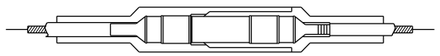
WATERTIGHT CONNECTORS

TYPES 1, 6, 11 & 16



NON-FUSED BREAKAWAY

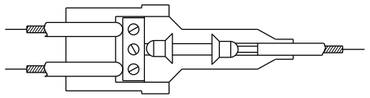
TYPES 2, 7, 12 & 17



FUSED BREAKAWAY

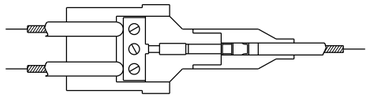
IDENTITY NO.	DESCRIPTIVE SYMBOL & WIRE SIZES
1	8 — 8
2	8 — 10
3	8, 8 — 10
4	8, 8 — 8
5	8, 8 — 8
6	6 — 6
7	6 — 10
8	6, 6 — 10
9	6, 6 — 6
10	6, 6 — 6
11	4 — 4
12	4 — 10
13	4, 4 — 10
14	4, 4 — 4
15	4, 4 — 4
16	10 — 10
17	10 — 10
18	10, 10 — 10
19	10, 10 — 10
20	10, 10 — 10
21	VARIES — VARIES

TYPES 3, 8, 13 & 18



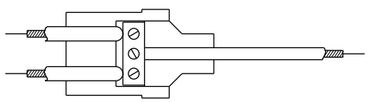
FUSED BREAKAWAY

TYPES 4, 9, 14 & 19



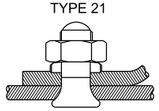
NON-FUSED BREAKAWAY

TYPES 5, 10, 15 & 20



NON-FUSED NON-BREAKAWAY

TYPE 21



COPPER SPLIT BOLT -
MAKE WATERTIGHT USING
SELF ADHERING MASTIC

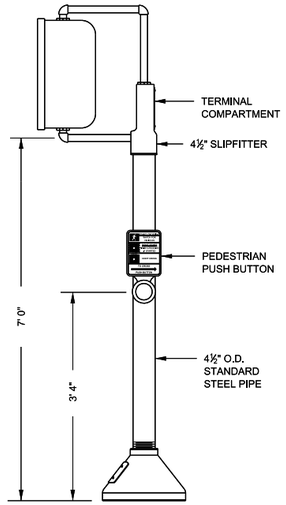
PROVIDE A PLUG AND RECEPTACLE HOUSED IN WATER-RESISTANT, SYNTHETIC RUBBER CAPABLE OF BURIAL IN THE GROUND OR INSTALLATION IN SUNLIGHT. THE HOUSING, CONSISTING OF 2 SECTIONS, PROVIDES A WATERTIGHT SEAL AROUND THE CABLE AND A WATERTIGHT SEAL BETWEEN THE TWO SECTIONS AT THE POINT OF DISCONNECTION. SUPPLY 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

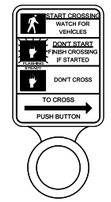


TYPE I-I00

ARROW TO BE LEFT OR RIGHT, OR BOTH AS REQUIRED.

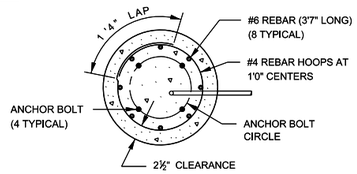
5" x 7¾" ALUMINUM SIGN, BLACK LETTERS ON WHITE BACKGROUND.

BACK OF CASTING SHAPED TO FIT CURVATURE OF POST. FOR MOUNTING ON PEDESTRIAN PUSH BUTTON POST, FORM CASTING TO FIT TOP OF POST.

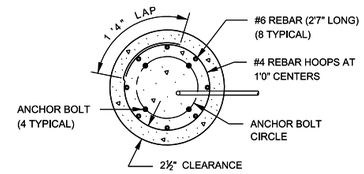


PEDESTRIAN PUSH BUTTON

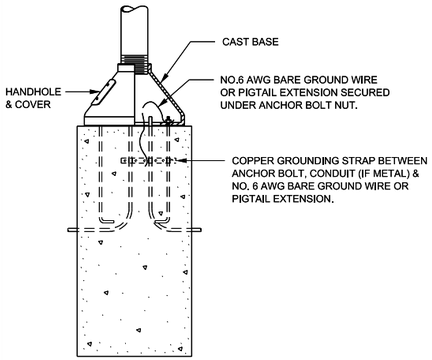
USE GRADE 60 REINFORCING STEEL

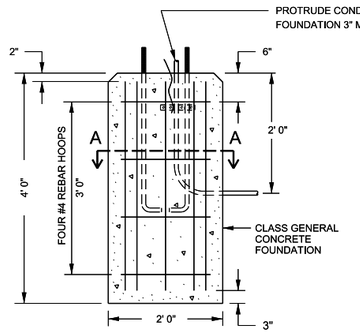


SECTION A-A

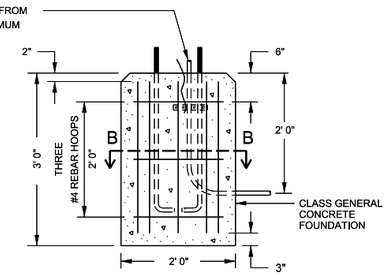


SECTION B-B





TYPE I-I60 & I-I40



TYPE I-I20 & I-I00

TYPICAL OF FOUNDATIONS

TYPE I SIGNAL STANDARDS, FOUNDATION DETAILS & PEDESTRIAN PUSH BUTTONS

NO SCALE

REVISED 15-APR-2014

3	MONTANA Department of Transportation	C:\DGN\9035000eldet001.dgn	DESIGNED BY	D. CUNNINGHAM	12/2021	ELECTRICAL PLANS	US 93 & TREELINE RD (KAL) / NH 5-3(136)116
2		12/26/2023	REVIEWED BY	K. JOHNSON	5/2022		UPN 9035000 / E2
1		2:35:35 PM CPS - U2948	CHECKED BY			FLATHEAD COUNTY	

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AWARD COPY

TABLE 1

	(A)	POLE SHAFT (B)	(C)	(D)	MIN. BASE DIA.	MIN. WALL THICK.	ANCHOR BOLTS	SIGNAL ARM (E)	(F)	(G)	(H)	(J)	FOUNDATION (K)	(L)	(M)	(N)
TYPE (A) LOWER SHAFT	15', 20', 25', 30', 35', 40'	19" SQ.	19"	2"	13½"	⅜"	1¼" x 48"	22" SQ.	23"	1½" - 6 UNC - 6" A325	2"	2"	12	12' 0"	11' 6"	3' 0"
TYPE (B) LOWER SHAFT	45', 50', 55', 60'	21" SQ.	21"	2"	15"	⅜"	2" x 48"	24" SQ.	25"	1½" - 6 UNC - 6" A325	2"	2"	12	12' 0"	11' 6"	4' 0"

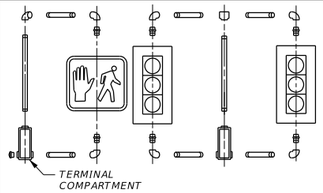
TABLE 2

	MOUNTING POINTS *1 SIGNAL	*2 EMERG. VEHICLE DETECTOR	*3 - *3C SIGN PANEL	*1A - *1C SIGNAL	*7 LUMINAIRE	*8 SIGNALS	*9 PED. SIGNAL	*10 CONTROLLER CAB.
DESIGN AREA	12.0 SQ.FT.	NIL	8.0 SQ.FT.	9.0 SQ.FT.	3.3 SQ.FT.	9.0 SQ.FT.	3.0 SQ.FT.	4.72 SQ.FT.
DESIGN WEIGHT	135 LB.	NIL	100 LB.	105 LB.	77 LB.	210 LB.	80 LB.	200 LB.

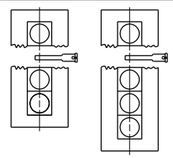
TABLE 3

	(A)			
	15'	20' & 25'	30', 35', 40' & 45'	50', 55' & 60'
MTG.PTS.	*1, *2, *3	*1, *1A, *2, *3, *3A	*1, *1A, *1B, *2, *3, *3A, *3B	*1, *1A, *1B, *1C, *2, *3, *3A, *3B, *3C

TYPICAL SIGNAL MOUNTINGS

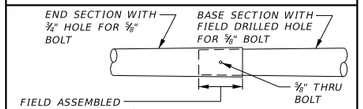


USE PIPE BRACKETS TO MOUNT TRAFFIC AND PEDESTRIAN SIGNALS TO THE POLE SHAFT UNLESS OTHERWISE SHOWN ON THE PLANS.



CONNECT SIGNALS TO MAST ARMS USING ELEVATOR PLUMBIZERS BETWEEN THE TOP AND SECOND SIGNAL DISPLAY.

SIGNAL ARM SLIP JOINT



SPAN	BASE SECTION LENGTH	END SECTION LENGTH
55'	12.60'	45.00'
60'	12.60'	50.00'

NOTES

DESIGN STANDARDS IN ACCORDANCE WITH THE 2015 AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (AND ANY AMENDMENTS THERETO).

DESIGN PARAMETERS

DESIGN WIND VELOCITY 700 YEAR MRI BASIC WIND SPEED

FATIGUE CATEGORY 2

HEIGHT AND EXPOSURE FACTOR Kz
z = 16 FEET
α = 9.5
zg = TAKEN AS 900 FEET FOR EXPOSURE C

DIRECTIONAL FACTOR Kd = 0.95, GUST FACTOR = 1.14 DRAG COEFFICIENTS LFRD TABLE 3.8.7-1

NO ICE LOADS OR GALLOPING

DESIGN AREA = AREA WITH MAXIMUM WIND LOAD (WIND IS PERPENDICULAR TO STANDARD, AS SHOWN).

DESIGN WEIGHT = DEAD LOAD.

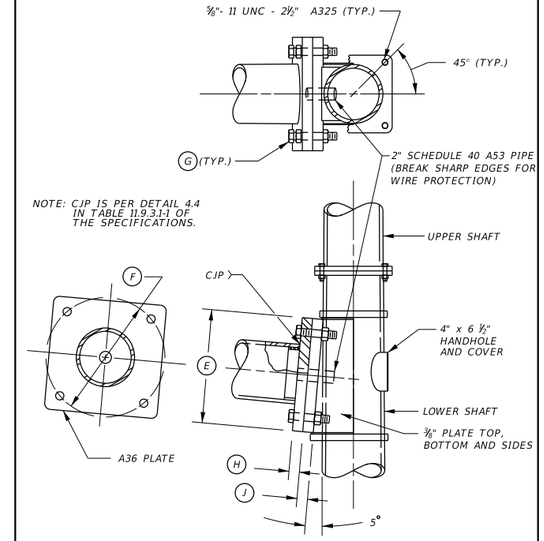
DESIGN ALL TYPE (A) LOWER SHAFTS FOR (A) = 40' AND A MOUNTING HEIGHT OF 45'.

DESIGN ALL TYPE (B) LOWER SHAFTS FOR (A) = 60' AND A MOUNTING HEIGHT OF 45'.

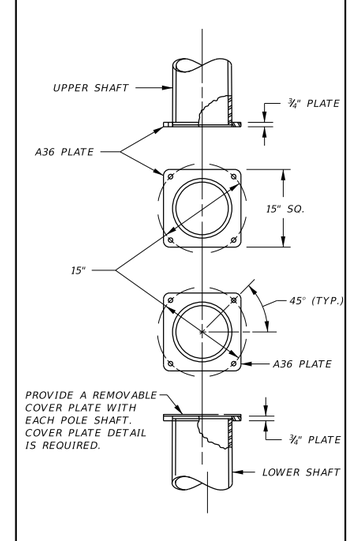
PROVIDE ANCHOR BOLTS CONFORMING TO ASTM F1554 GRADE 55 OR EQUAL. GALVANIZE AND THREAD THE TOP END (12" MIN.).

CALL OUT WELDING PROCEDURES, SYMBOLS, BASE METAL SPECIFICATIONS AND GRADES PRIOR TO FABRICATION OR APPROVAL.

GALVANIZE POLE SHAFTS, ARMS, AND ACCESSORIES PER ASTM A123. GALVANIZE HARDWARE PER ASTM F2329.

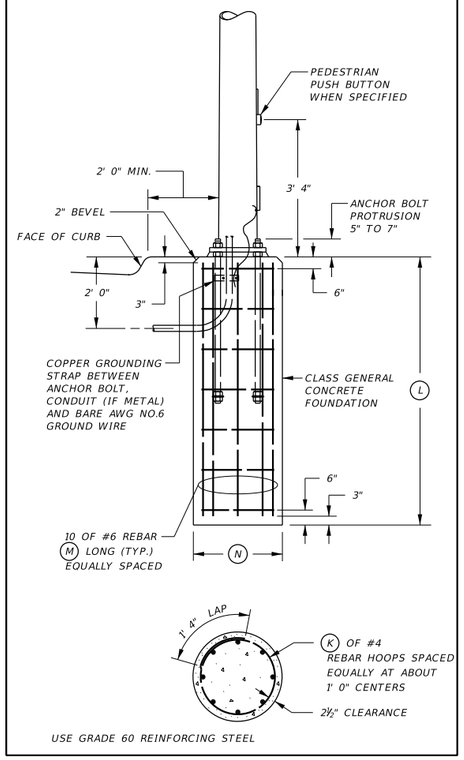


DETAIL 1 — SIGNAL ARM CONNECTION



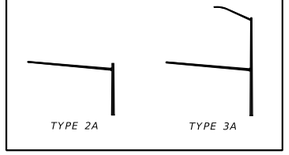
DETAIL 2 — SHAFT TO SHAFT

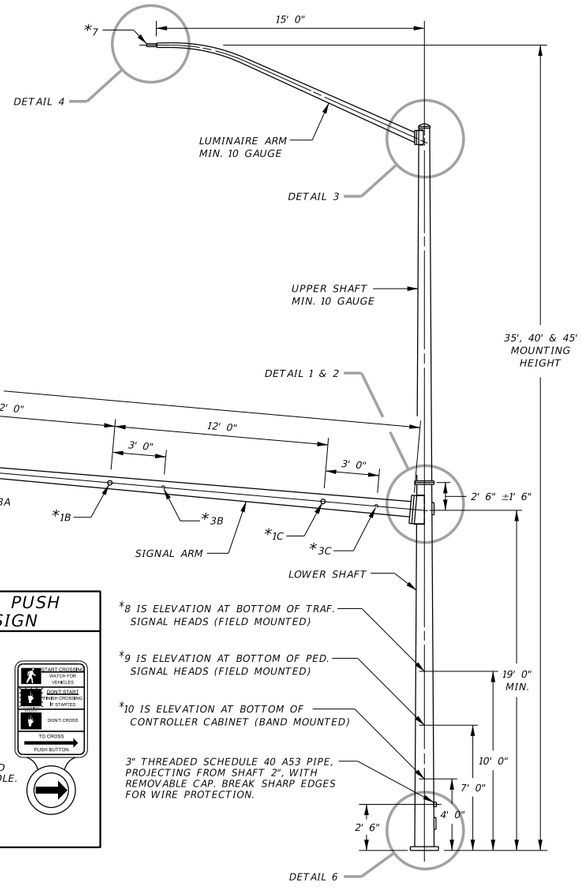
TYPICAL FOUNDATION



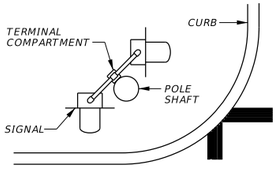
USE GRADE 60 REINFORCING STEEL

SIGNAL STANDARD TYPE





TYPICAL ORIENTATION FOR PIPE BRACKET MOUNTED SIGNALS

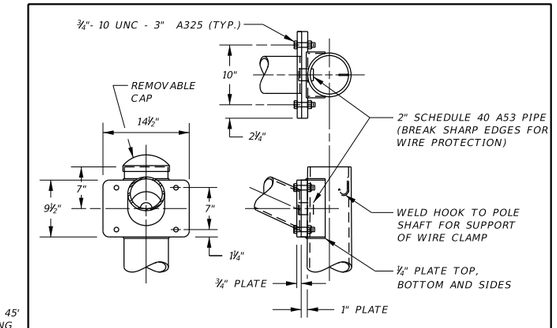


PEDESTRIAN PUSH BUTTON SIGN

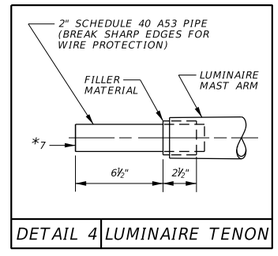
ARROW TO BE LEFT OR RIGHT, OR BOTH AS REQUIRED.

5" x 7 ¾" ALUMINUM SIGN, BLACK LETTERS ON WHITE BACKGROUND.

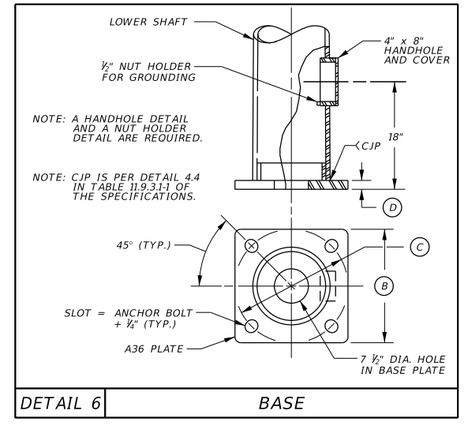
BACK OF CASTING SHAPED TO FIT CURVATURE OF POLE.



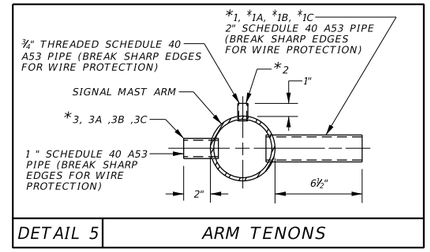
DETAIL 3 — LUMINAIRE ARM CONNECTION



DETAIL 4 — LUMINAIRE TENON



DETAIL 6 — BASE



DETAIL 5 — ARM TENONS

2015 LRFD
TYPE 2A & 3A SIGNAL STANDARDS, FOUNDATION DETAILS, AND TYPICAL SIGNAL MOUNTINGS

NO SCALE

REVISED 5-DEC-2023

3	MONTANA Department of Transportation	C:\DGN\9035000eldet001.dgn	DESIGNED BY	D. CUNNINGHAM	12/2021	ELECTRICAL PLANS	US 93 & TREELINE RD (KAL) / NH 5-3(136)116
2		12/26/2023	REVIEWED BY	K. JOHNSON	5/2022		UPN 9035000 / E3
1		2:35:38 PM CPS - U2948	CHECKED BY			FLATHEAD COUNTY	

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AWARD COPY

A EXISTING 1 - 1½" RIGID CONDUIT
EXISTING 3 - AWG NO. 6 CONDUCTOR
EXISTING 2 - AWG NO. 8 CONDUCTOR
EXISTING 1 - AWG NO. 10 CONDUCTOR

B EXISTING 3 - 2½" RIGID CONDUIT
EXISTING 1 - 2½" PVC CONDUIT
EXISTING 5 - 3AWG14 CABLE (REMOVE)
EXISTING 4 - 16AWG14 CABLE
NEW 7 - 9AWG14 CABLE
EXISTING 2 - OPTICOM PRE-EMPTION CABLE
EXISTING 12 - LOOP LEAD-IN CABLES (REMOVE)
EXISTING 6 - RADAR DETECTION CABLE
EXISTING 3 - AWG NO. 6 CONDUCTOR
EXISTING 2 - 6AWG19 INTERCONNECT

C EXISTING 3 - 2½" PVC CONDUIT
EXISTING 4 - 3AWG14 CABLE (REMOVE)
EXISTING 2 - 16AWG14 CABLE
NEW 4 - 9AWG14 CABLE
EXISTING 9 - LOOP LEAD-IN CABLES (REMOVE)
EXISTING 3 - RADAR DETECTION CABLE
EXISTING 2 - AWG NO. 8 CONDUCTOR
EXISTING 1 - AWG NO. 10 CONDUCTOR
EXISTING 1 - 6AWG19 INTERCONNECT

D EXISTING 1 - 2" RIGID CONDUIT
EXISTING 1 - 16AWG14 CABLE
EXISTING 1 - OPTICOM PRE-EMPTION CABLE
EXISTING 1 - RADAR DETECTION CABLE
EXISTING 2 - AWG NO. 8 CONDUCTOR
EXISTING 1 - AWG NO. 10 CONDUCTOR

E NEW 1 - 2" PVC CONDUIT
NEW 1 - 9AWG14 CABLE
NEW 1 - AWG NO. 10 CONDUCTOR

F EXISTING 2 - 2½" PVC CONDUIT
EXISTING 1 - 16AWG14 CABLE
NEW 2 - 9AWG14 CABLE
EXISTING 3 - LOOP LEAD-IN CABLES (REMOVE)
EXISTING 1 - OPTICOM PRE-EMPTION CABLE
EXISTING 2 - RADAR DETECTION CABLE
EXISTING 2 - AWG NO. 8 CONDUCTOR
EXISTING 1 - AWG NO. 10 CONDUCTOR
EXISTING 1 - 6AWG19 INTERCONNECT

G EXISTING 1 - 2" RIGID CONDUIT
EXISTING 1 - 16AWG14 CABLE
EXISTING 1 - OPTICOM PRE-EMPTION CABLE
EXISTING 2 - RADAR DETECTION CABLE
EXISTING 2 - AWG NO. 8 CONDUCTOR
EXISTING 1 - AWG NO. 10 CONDUCTOR

H EXISTING 2 - 2" PVC CONDUIT
NEW 1 - 2" PVC CONDUIT
EXISTING 1 - 3AWG14 CABLE (REMOVE)
EXISTING 2 - 16AWG14 CABLE
NEW 3- 9AWG14 CABLE
EXISTING 5 - LOOP LEAD-IN CABLES (REMOVE)
EXISTING 3 - RADAR DETECTION CABLE
EXISTING 2 - AWG NO. 8 CONDUCTOR
EXISTING 1 - AWG NO. 10 CONDUCTOR

I EXISTING 1 - 2" PVC CONDUIT
EXISTING 1 - 16AWG14 CABLE
NEW 1 - RADAR DETECTION CABLE
EXISTING 2 - AWG NO. 8 CONDUCTOR
EXISTING 1 - AWG NO. 10 CONDUCTOR

J EXISTING 1 - 2" PVC CONDUIT (ABANDON)
EXISTING 1 - 3AWG14 CABLE (REMOVE)
EXISTING 1 - 16AWG14 CABLE (REMOVE)
EXISTING 2 - LOOP LEAD-IN CABLES (REMOVE)
EXISTING 1 - AWG NO. 10 CONDUCTOR (REMOVE)

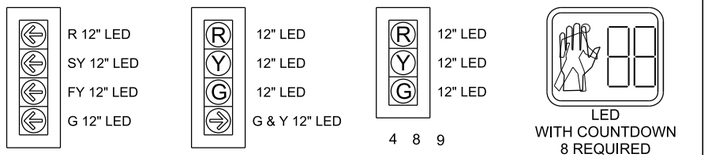
K NEW 2 - 2" PVC CONDUIT
NEW 1 - 9AWG14 CABLE
EXISTING 1 - 16AWG14 CABLE (REPULL)
EXISTING 1 - RADAR DETECTION CABLE (REPULL)
EXISTING 1 - AWG NO. 10 CONDUCTOR (REPULL)

L NEW 1 - 2" PVC CONDUIT
EXISTING 1 - 16AWG14 CABLE (REPULL)
EXISTING 1 - RADAR DETECTION CABLE (REPULL)
EXISTING 1 - AWG NO. 10 CONDUCTOR (REPULL)

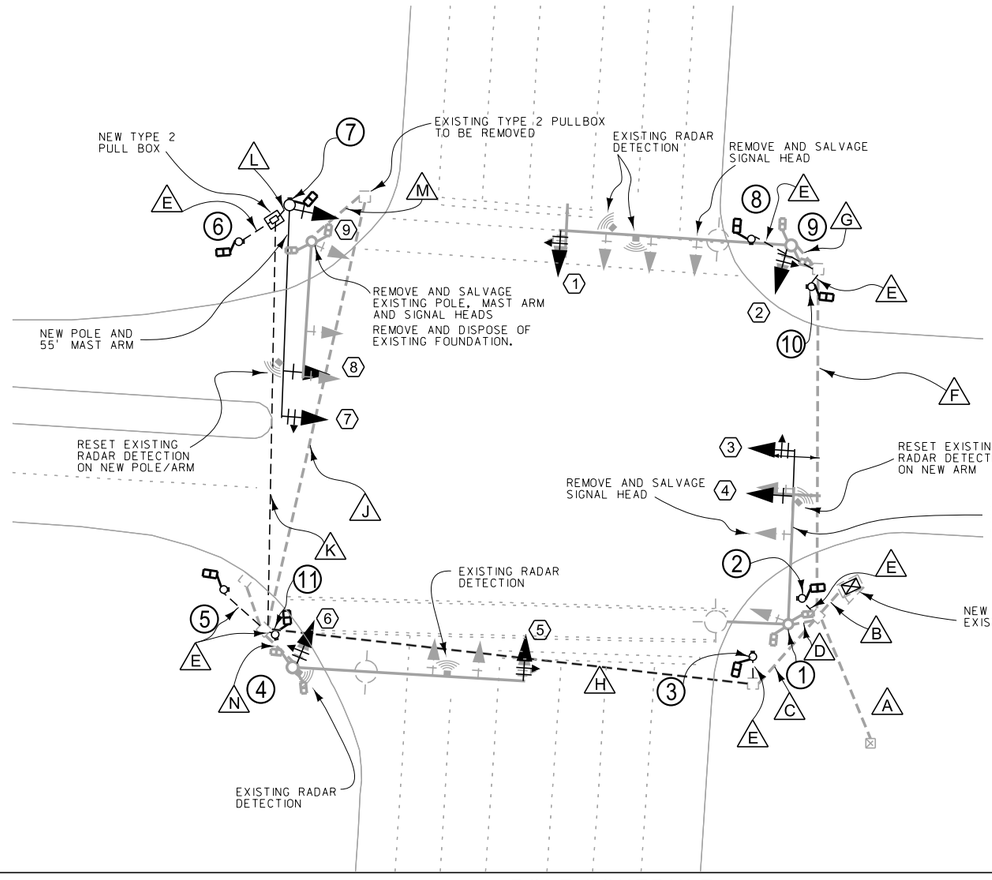
M EXISTING 1 - 2" PVC CONDUIT (ABANDON)
EXISTING 1 - 16AWG14 CABLE (REMOVE)
EXISTING 1 - AWG NO. 10 CONDUCTOR (REMOVE)

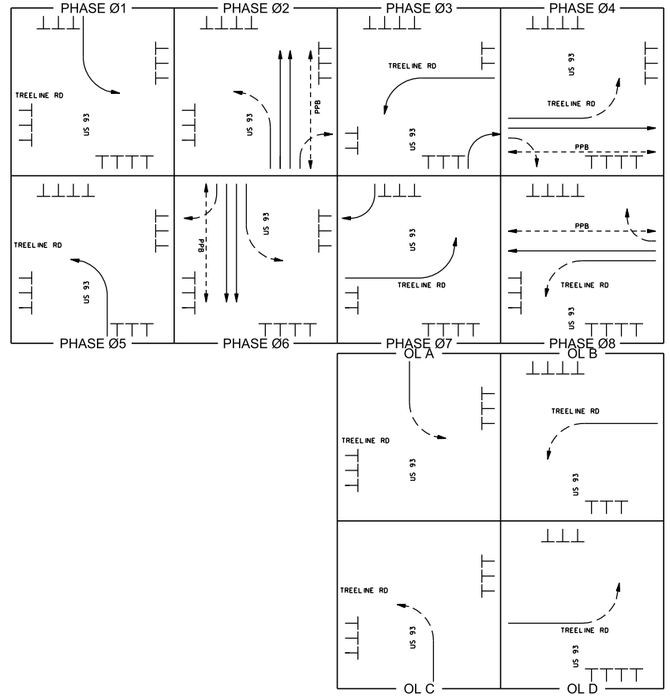
N EXISTING 1 - 2" RIGID CONDUIT
EXISTING 1 - 16AWG14 CABLE
EXISTING 2 - RADAR DETECTION CABLE
EXISTING 2 - AWG NO. 8 CONDUCTOR
EXISTING 1 - AWG NO. 10 CONDUCTOR

SIGNAL INDICATIONS



SY = STEADY YELLOW FY = FLASHING YELLOW
PROVIDE A REFLECTIVE BORDER ON BACKPLATES





NOTES:

1. CONTRACTOR TO REMOVE AND SALVAGE TRAFFIC SIGNAL POLE AND MAST ARMS, TRAFFIC SIGNAL HEADS, PUSH BUTTONS, PEDESTRIAN SIGNAL HEADS AND ALL RELATED EQUIPMENT AND RETURN TO MDT KALISPELL MAINTANENCE SHOP.

2. CONTRACTOR TO PLACE RETRO-REFLECTIVE BACKPLATE BORDERS ON EXISTING TRAFFIC SIGNAL HEADS.

POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	LINE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	PEDESTRIAN PUSH BUTTON		SIGNAL MASTARM	LUMINAIRE MASTARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	E OR X COORDINATE	N OR Y COORDINATE	COMMENTS
						← LEFT ARROW	→ RIGHT ARROW							
1	617 725 601	SIG STD MOD	US 93	EXISTING	EXISTING	--	--	45'	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NEW MAST ARM
2	617 673 100	1-100	US 93	BREAKAWAY	2' X 3'	1	--	--	--	--	--	792,519.38	1,489,877.58	NEW
3	617 673 100	1-100	US 93	BREAKAWAY	2' X 3'	--	1	--	--	--	--	792,506.34	1,489,862.20	NEW
4	EXISTING	3-A-900-0	US 93	EXISTING	EXISTING	--	--	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
5	617 673 100	1-100	US 93	BREAKAWAY	2' X 3'	--	1	--	--	--	--	792,366.69	1,489,879.94	NEW
6	617 673 100	1-100	US 93	BREAKAWAY	2' X 3'	1	--	--	--	--	--	792,370.65	1,489,971.75	NEW
7	617 693 909	2-A-900-9	US 93	ANCHOR	4' X 12'	1	--	55'	--	--	--	792,384.08	1,489,981.31	NEW
8	617 673 100	1-100	US 93	BREAKAWAY	2' X 3'	1	--	--	--	--	--	792,505.95	1,489,972.45	NEW
9	EXISTING	3-A-900-0	US 93	EXISTING	EXISTING	--	--	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
10	617 673 100	1-100	US 93	BREAKAWAY	2' X 3'	--	1	--	--	--	--	792,521.86	1,489,959.90	NEW
11	617 673 100	1-100	US 93	BREAKAWAY	2' X 3'	--	1	--	--	--	--	792,380.25	1,489,868.04	NEW

**MINOR ADJUSTMENT TO POLE LOCATIONS ALLOWED IN THE FIELD

N

SCALE:1"=40' 0 20 40 10 30

3	MONTANA Department of Transportation	C:\DGN\9035000elpln001.dgn	DESIGNED BY D. CUNNINGHAM 12/2021	ELECTRICAL PLANS		US 93 & TREELINE RD (KAL)	NH 5-3(136)116
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