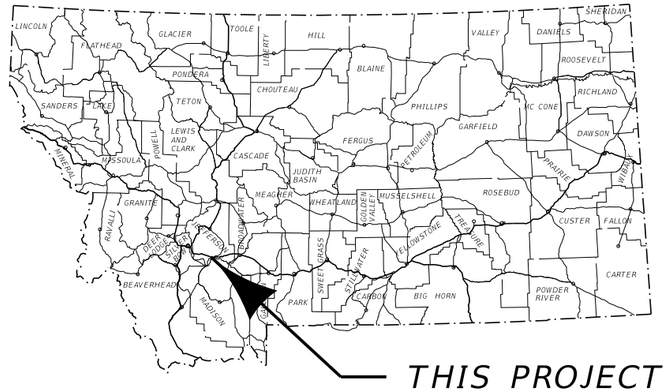
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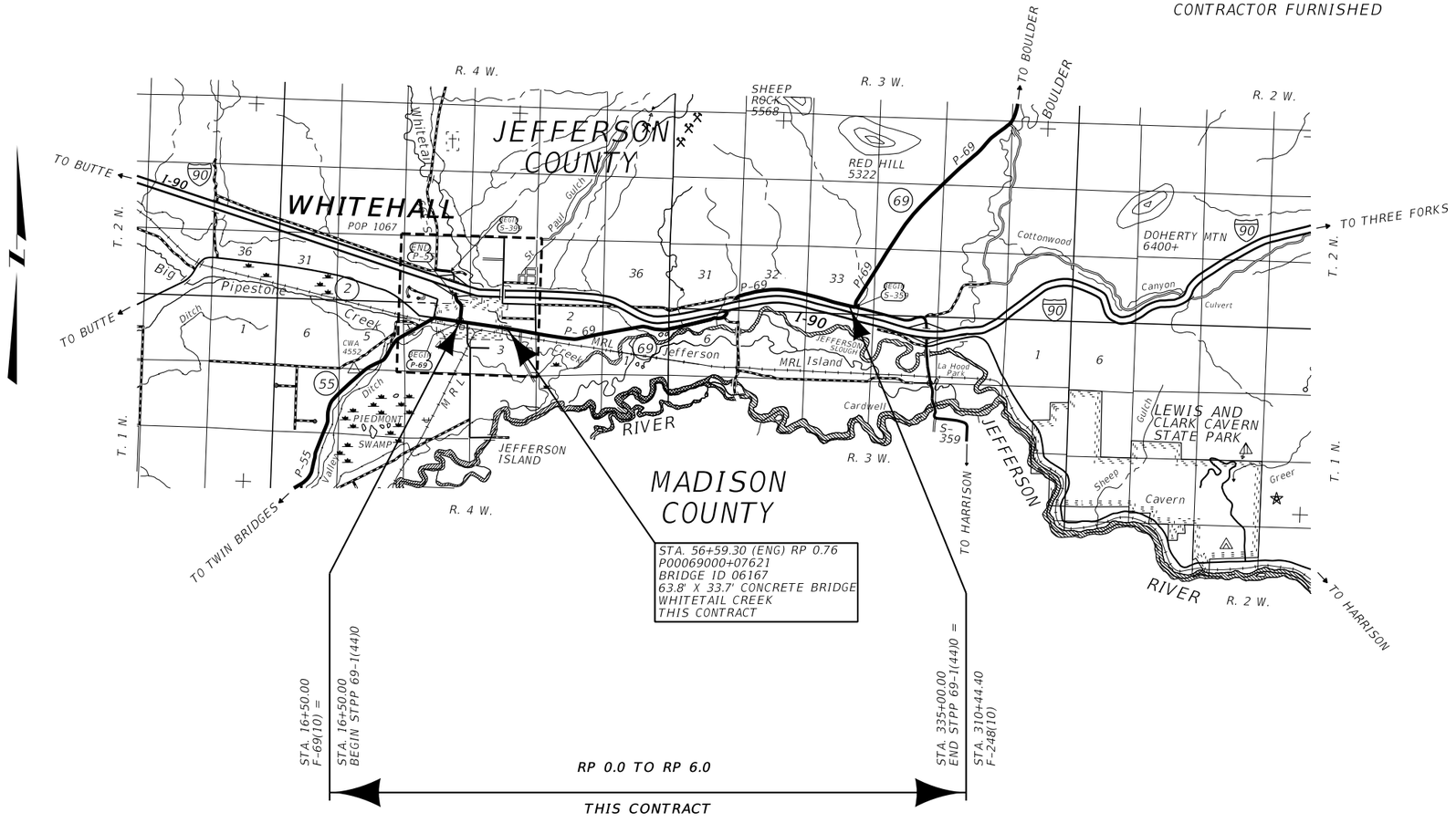
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPP 69-1(44)0
MILL, FILL, SEAL, & COVER
WHITEHALL - EAST
JEFFERSON COUNTY

PROJECT DESIGN DATA		
PRESENT 2020	A.D.T. =	1,530
LETTING 2021	A.D.T. =	1,550
DESIGN 2041	A.D.T. =	1,890
	D.H.V. =	220
	TRUCKS =	5.3 %
	V. =	60 MPH
	18 KIP ESAL'S =	44 DAILY
	GROWTH RATE =	1.0 % ANNUALLY

LENGTH 6.0 MILES

SURFACING SOURCES – CONTRACTOR FURNISHED



3	MDT	MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9740000rdtl001.dgn	DESIGNED BY	J. BRAZILL	9/29/2020
2			1/24/2022	REVIEWED BY	K. MUELLER	9/29/2020
			9:39:52 AM CPS – U1150	CHECKED BY	J. FLEMING	8/31/2021

ROAD PLANS

UPN 9740000

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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.
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)
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

UTILITIES

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

WETLANDS

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

STATIONING

STATIONING USED IN PLANS WAS GENERATED BY A BEST FIT METHOD. IT IS NOT INTENDED TO BE EXACT, BUT REPRESENTS LOCATIONS WHERE WORK IS REQUIRED.

AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):

F 69 10 (CONST. - 1955)
F_248_10 (CONST. - 1955)
F_248_11 (CONST. - 1955)
I 90 5 17 (CONST. - 1968)
STTP 69(33)0 (SEAL AND COVER - 2011)

LINEAR DATA

LENGTH OF ROADWAY	JEFFERSON COUNTY	2 LANE RURAL	31,786.20 ft
LENGTH OF BRIDGE	JEFFERSON COUNTY	2 LANE RURAL	63.80 ft
TOTAL LENGTH OF	STPP 69-1(44)0	2 LANE RURAL	31,850.00 ft

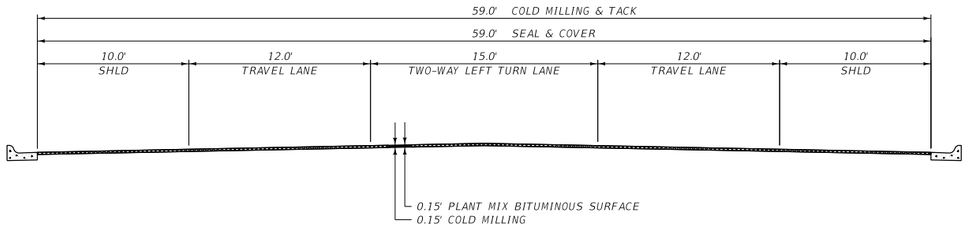
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TYPICAL SECTION NO. 1

MAINLINE

STA. 16+50.00 TO STA. 41+28.50
STA. 41+28.50 TO STA. 44+28.50 TRANSITION FROM TYP. NO. 1 TO TYP. NO. 2

℄



QUANTITIES

UNIT	AGGREGATE					UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX					ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		8.85				square yards PER STATION		656	656
cubic yards PER STATION		32.8				tons PER STATION	3.41	1.17	
tons PER STATION		63.2				gals. PER STATION			32.8
square yards PER STATION	656								

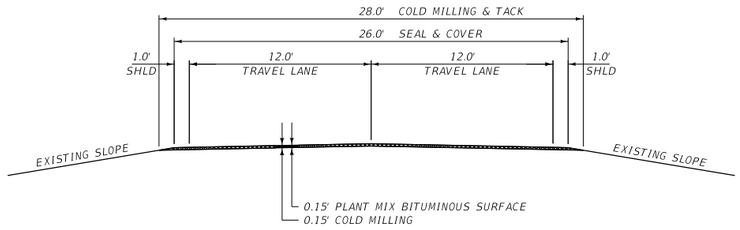
*BASED ON 1 APPLICATIONS

TYPICAL SECTION NO. 2

MAINLINE

STA. 44+28.50 TO STA. 54+27.40 THEN TO TYP. NO. 3
STA. 58+91.20 TO STA. 59+00.00
STA. 59+00.00 TO STA. 60+00.00 TRANSITION FROM TYP. NO. 2 TO TYP. NO. 4

℄



QUANTITIES

UNIT	AGGREGATE					UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX					ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		4.05				square yards PER STATION		289	311
cubic yards PER STATION		15.0				tons PER STATION	1.56	0.52	
tons PER STATION		28.9				gals. PER STATION			15.6
square yards PER STATION	289								

*BASED ON 1 APPLICATIONS

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9740000rdtyp001.dgn	DESIGNED BY J. BRAZILL	9/29/2020	ROAD PLANS	WHITEHALL - EAST	STPP 69-1(44)0
2		1/24/2022	REVIEWED BY K. MUELLER	9/29/2020			
		9:40:07 AM CPS - U1150	CHECKED BY J. FLEMING	8/31/2021	JEFFERSON COUNTY	UPN 9740000	03

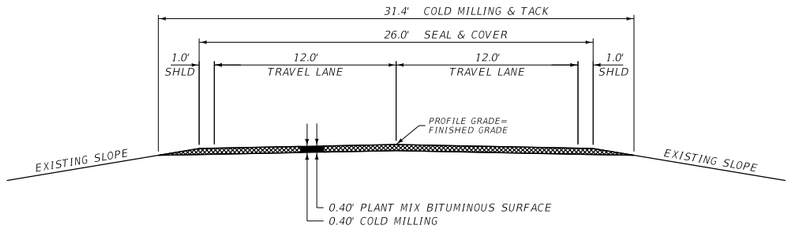
AWARD COPY

TYPICAL SECTION NO. 3

MAINLINE

STA. 54+27.40 TO STA. 56+27.40 BE
STA. 56+91.20 BE TO STA. 58+91.20 THEN TO TYP. NO. 2

℄



QUANTITIES									
UNIT	AGGREGATE					UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX					ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		11.48				square yards PER STATION		289	698
cubic yards PER STATION		42.5				tons PER STATION	4.43	0.52	
tons PER STATION		81.9				gals. PER STATION			35.0
square yards PER STATION	289								

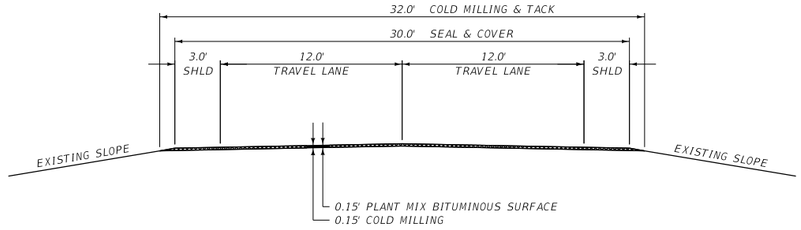
*BASED ON 2 APPLICATIONS

TYPICAL SECTION NO. 4

MAINLINE

STA. 60+00.00 TO STA. 335+00.00

℄



QUANTITIES									
UNIT	AGGREGATE					UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX					ASPHALT CEMENT	SEAL	EMULSIFIED ASPHALT TACK*
AREA square feet		4.65				square yards PER STATION		333	356
cubic yards PER STATION		17.2				tons PER STATION	1.79	0.59	
tons PER STATION		33.2				gals. PER STATION			17.8
square yards PER STATION	333								

*BASED ON 1 APPLICATIONS

AWARD COPY

SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. GR. S -3/4"	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards AGG. TREAT.	REMARKS
16+50.00	41+28.50	2,478.50	2,478.50					16,259	1,566	84.5	29.0	813		TYPICAL SECTION NO. 1
41+28.50	44+28.50	300.00	300.00					1,418	138	7.5	2.6	73		TRANSITION TYP. SECT. NO. 1 TO TYP. SECT. NO. 2
44+28.50	54+27.40	998.90	998.90					2,887	289	15.6	5.2	156		TYPICAL SECTION NO. 2
54+27.40														
56+27.40 BE	56+91.20 BE				63.80	BRIDGE								
	58+91.20	463.80	400.00					1,156	328	17.7	2.1	140		TYPICAL SECTION NO. 3
58+91.20	59+00.00	8.80	8.80					25	3	0.1	0.1	1		TYPICAL SECTION NO. 2
59+00.00	60+00.00	100.00	100.00					311	31	1.7	0.6	17		TRANSITION TYP. SECT. NO. 2 TO TYP. SECT. NO. 4
60+00.00	335+00.00	27,500.00	27,500.00					91,575	9,130	492.3	162.3	4,895		TYPICAL SECTION NO. 4
						ADDITIONAL SURFACING		1,233	58	3.1	2.2	~	603	
TOTAL		31,850.00	31,786.20	~	63.80		162	114,864	11,543	622.5	204.1	6,095	603	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 3/4"	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	sq. yards AGG. TREAT.	REMARKS
						8 STREET APPROACHES		630	~	~	1.1	~	CADD AREA = 630 SQUARE YARDS
41+00.00	45+41.00					SHOULDER WIDENING AREA*		603	58	3.1	1.1	603	CADD AREA = 603 SQUARE YARDS
SUBTOTAL		~	~	~	~		~	1,233	58	3.1	2.2	603	

* INCLUDE GRAVEL REMOVAL/DISPOSAL (23 YD^3) IN ADDITION TO THE COST OF PLANT MIX SURFACING

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	436		436
STRIPING - YELLOW PAINT	gallon	174		174
WORDS & SYMBOLS - WHITE PAINT	gallon	34		34
WORDS & SYMBOLS - YELLOW PAINT	gallon	4		4
STRIPING - WHITE EPOXY	gallon		291	291
STRIPING - YELLOW EPOXY	gallon		150	150
WORDS & SYMBOLS - WHITE EPOXY	gallon		22	22
WORDS & SYMBOLS - YELLOW EPOXY	gallon		2	2
CURB MARKING-YELLOW EPOXY	gallon		18	18
TEMPORARY STRIPING	linear feet		30,150	30,150
FINAL SWEEP AND BROOM	course mile			6.0

BASED ON TWO APPLICATIONS.

COLD MILLING *

STATION FROM	STATION TO	sq. yards COLD MILLING 0.15 ft	sq. yards COLD MILLING 0.40 ft	REMARKS
16+50.00	41+28.50	16,248	~	
41+28.50	44+28.50	1,450	~	
44+28.50	54+27.40	3,108	~	
54+27.40	56+27.40 BE	~	698	
56+91.20 BE	58+91.40	~	698	
58+91.40	59+00.00	27	~	
59+00.00	60+00.00	333	~	
60+00.00	335+00.00	97,778	~	
SUBTOTAL		118,944	1,396	
TOTAL		120,340		

* SEE DETAILS

BRIDGE DECK TREATMENT

STATION FROM	STATION TO	sq yards BRIDGE DECK CRACK SEAL	REMARKS
56+27.40 BE	56+91.20 BE	212.5	

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SUMMARY

GUARDRAIL

STATION		linear feet				each				REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL		MASH W-BEAM TERMINAL SECTION		GUARDRAIL END SECTION WIDENING		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
171+88.00	187+38.00		1,550.0							
172+00.50	187+31.75				1,462.5		2		2	
214+10.00	238+37.78		2,427.8							
214+22.50	238+37.78				2,462.5		2		2	INCLUDES 125' SHOP BENT RAIL
236+76.00	243+01.00	625.0								
236+82.25	242+88.50			537.5		2		2		
239+99.00	242+99.00		300.0							
240+11.50	242+92.75				212.5		2		2	
SUBTOTAL		625.0	4,277.8	537.5	4,137.5	2	6	2	6	
TOTAL		4,902.8		4,675.0		8		8		

CURB

STREET		linear feet				sq. yards				REMARKS
		REMOVE CURB AND GUTTER #		CONCRETE CURB AND GUTTER		REMOVE CONCRETE VALLEY GUTTER #		CONCRETE VALLEY GUTTER		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
18+57.31	19+02.31	45.0		45.0						
19+30.31	19+90.31	60.0		60.0						
20+83.90	21+33.90						16.7		16.7	
20+95.15	22+40.15	145.0		145.0						
21+87.88	22+07.88		20.0		20.0					
23+38.49	24+22.49		84.0		84.0					
24+05.15	24+17.15	12.0		12.0						
24+34.89	24+76.89						14.0		14.0	
25+16.63	25+34.63		18.0		18.0					
26+78.63	26+88.63		10.0		10.0					
27+09.63	27+19.63		10.0		10.0					
27+60.63	27+73.63		13.0		13.0					
27+73.63	28+02.63						9.7		9.7	
28+51.63	28+67.63						5.3		5.3	
29+02.63	29+08.63		6.0		6.0					
29+22.63	29+64.63						14.0		14.0	
29+89.63	30+03.63		14.0		14.0					
30+73.63	31+00.63		27.0		27.0					
31+00.63	31+24.63		24.0		24.0					LAYDOWN CURB
31+57.63	31+77.63		20.0		20.0					LAYDOWN CURB
31+98.63	32+29.63		31.0		31.0					LAYDOWN CURB
32+29.63	33+36.63		107.0		107.0					
33+36.63	36+19.63		283.0		283.0					LAYDOWN CURB
34+13.97	34+87.97	74.0		74.0						
36+19.63	36+89.63		70.0		70.0					
36+89.63	37+67.63		78.0		78.0					LAYDOWN CURB
37+19.76	37+75.76	56.0		56.0						
37+67.63	38+04.63		37.0		37.0					
37+75.76	39+07.76					44.0		44.0		
38+04.63	38+86.63		82.0		82.0					LAYDOWN CURB
39+12.63	40+86.63		174.0		174.0					LAYDOWN CURB
39+50.15	40+61.15	111.0		111.0						
SUBTOTAL		~	~	503.0	1,108.0	~	~	44.0	59.7	
TOTAL		~		1,611.0		~		103.7		

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

RUMBLE STRIPS

STATION		miles	gals	REMARKS
		RUMBLE STRIPS CENTERLINE TYPE3	EMULSIFIED ASPHALT FOG SEAL #	
FROM	TO			
52+37.00	335+00.00	5.3	618	
SUBTOTAL		5.3	618	
TOTAL		5.3	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

ADJUST VALVE BOXES *

STATION	each				REMARKS
	ADJUST WATER VALVE BOX #		ADJUST GAS VALVE BOX ##		
	LEFT	RIGHT	LEFT	RIGHT	
16+48.57	1				18' LT. WATER
16+61.41	1				20' LT. WATER
16+67.41		1			13' RT. WATER
20+30.31	1				22' LT. WATER
21+01.41		1			14' RT. WATER
24+40.09				1	28' RT. GAS
24+49.27	1				18' LT. WATER
24+51.27	1				20' LT. WATER
24+53.27	1				18' LT. WATER
28+22.73	1				23' LT. WATER
28+24.73	1				25' LT. WATER
28+26.27	1				23' LT. WATER
36+39.36	1				16' LT. WATER
SUBTOTAL	10	2	~	1	
TOTAL	12		1		

FUNDING STATE SHARE 100%
FUNDING UTILITY 25% AND STATE SHARE 75%
* CONCRETE APRON - SEE DETAIL DRAWING 621-05 (INCLUDE THE APRON IN COST OF ADJUSTMENT)

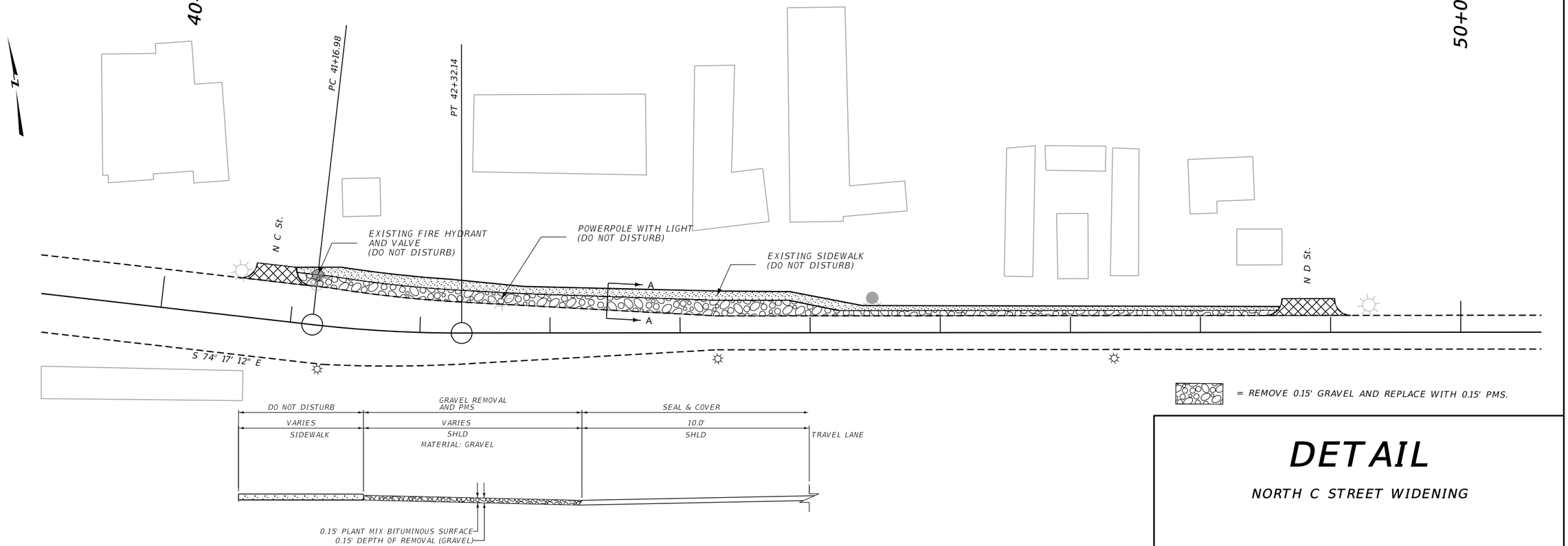
MANHOLES IN PLACE

STATION	each		REMARKS
	ADJUST MANHOLE *		
	LEFT	RIGHT	
20+71	1		30' LT. STORM
24+63	1		STORM
28+20	1		21.5' LT. SANITARY #
SUBTOTAL	3	~	
TOTAL	3		

FUNDING - 100% STATE COST SHARE
* CONCRETE APRON - SEE DETAIL DRAWING 621-05 (INCLUDE THE APRON IN COST OF ADJUSTMENT)

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DETAIL

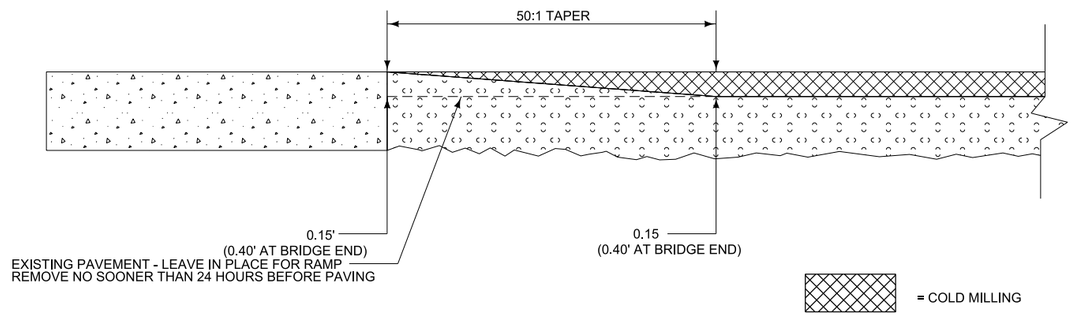


SECTION A - A

DETAIL

NORTH C STREET WIDENING

NO SCALE



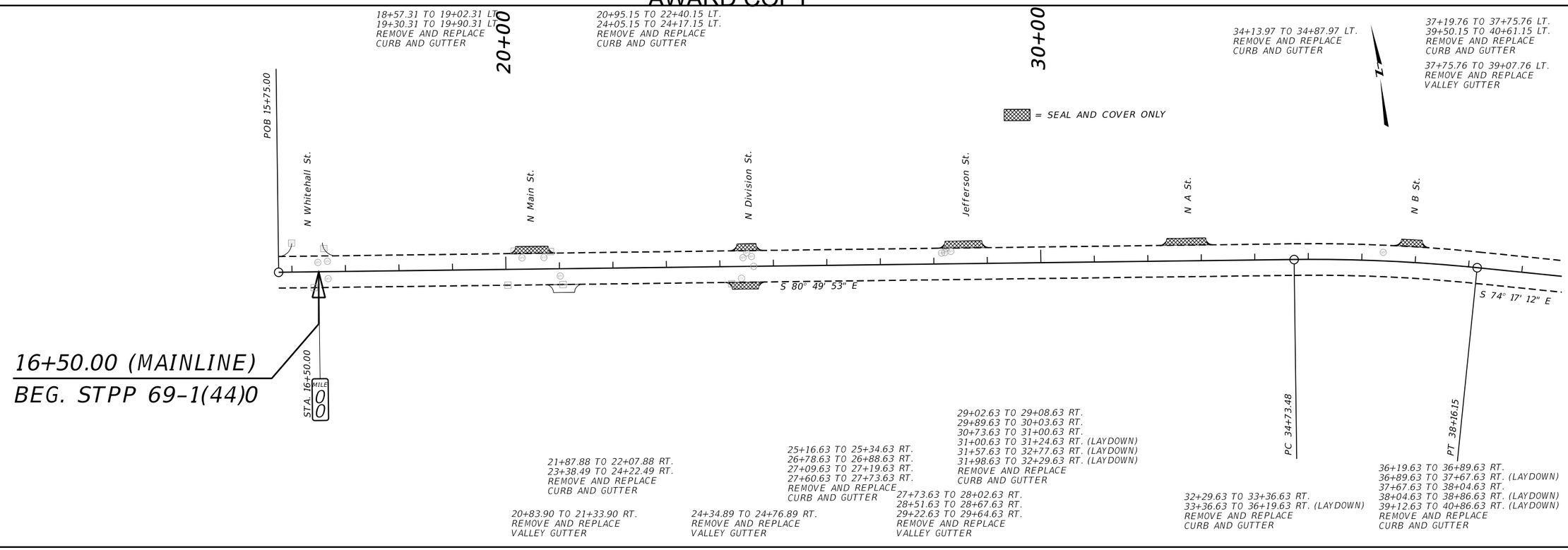
DETAIL

TEMPORARY RAMP CONNECTION
AT BRIDGE ENDS AND CONNECTIONS TO PTW

NO SCALE

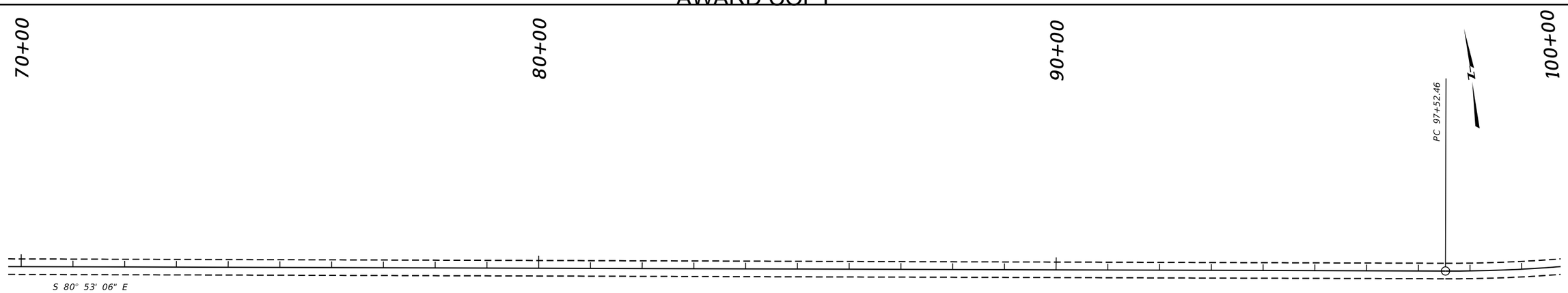
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2		1/24/2022	REVIEWED BY	K. MUELLER	9/29/2020			
		9:40:52 AM CPS - U1150	CHECKED BY	J. FLEMING	8/31/2021	JEFFERSON COUNTY	UPN 9740000	07

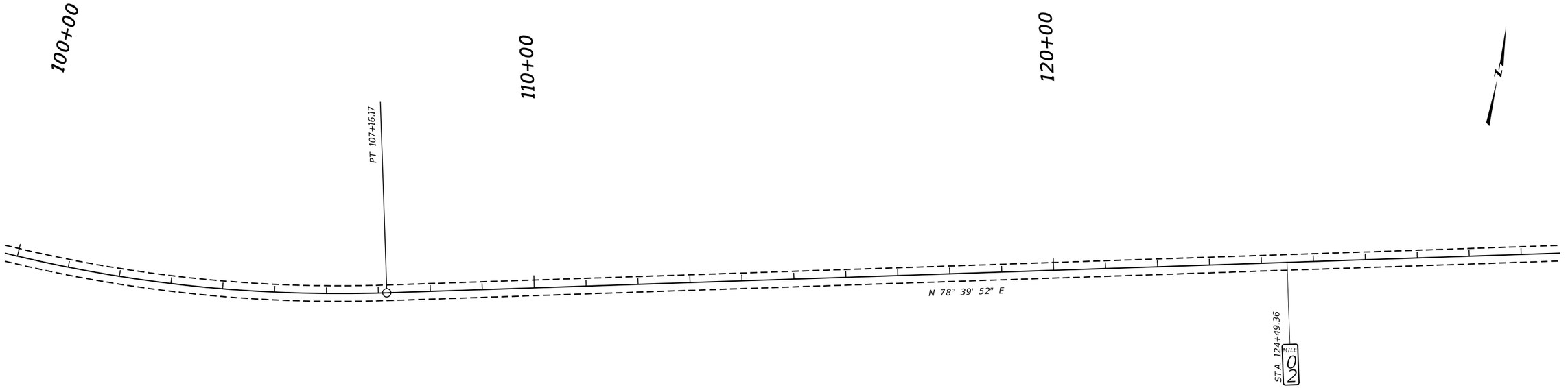
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2		1/24/2022	REVIEWED BY	K. MUELLER	9/29/2020		
		9:41:01 AM CPS - U1150	CHECKED BY	J. FLEMING	8/31/2021	JEFFERSON COUNTY	UPN 9740000 / 08

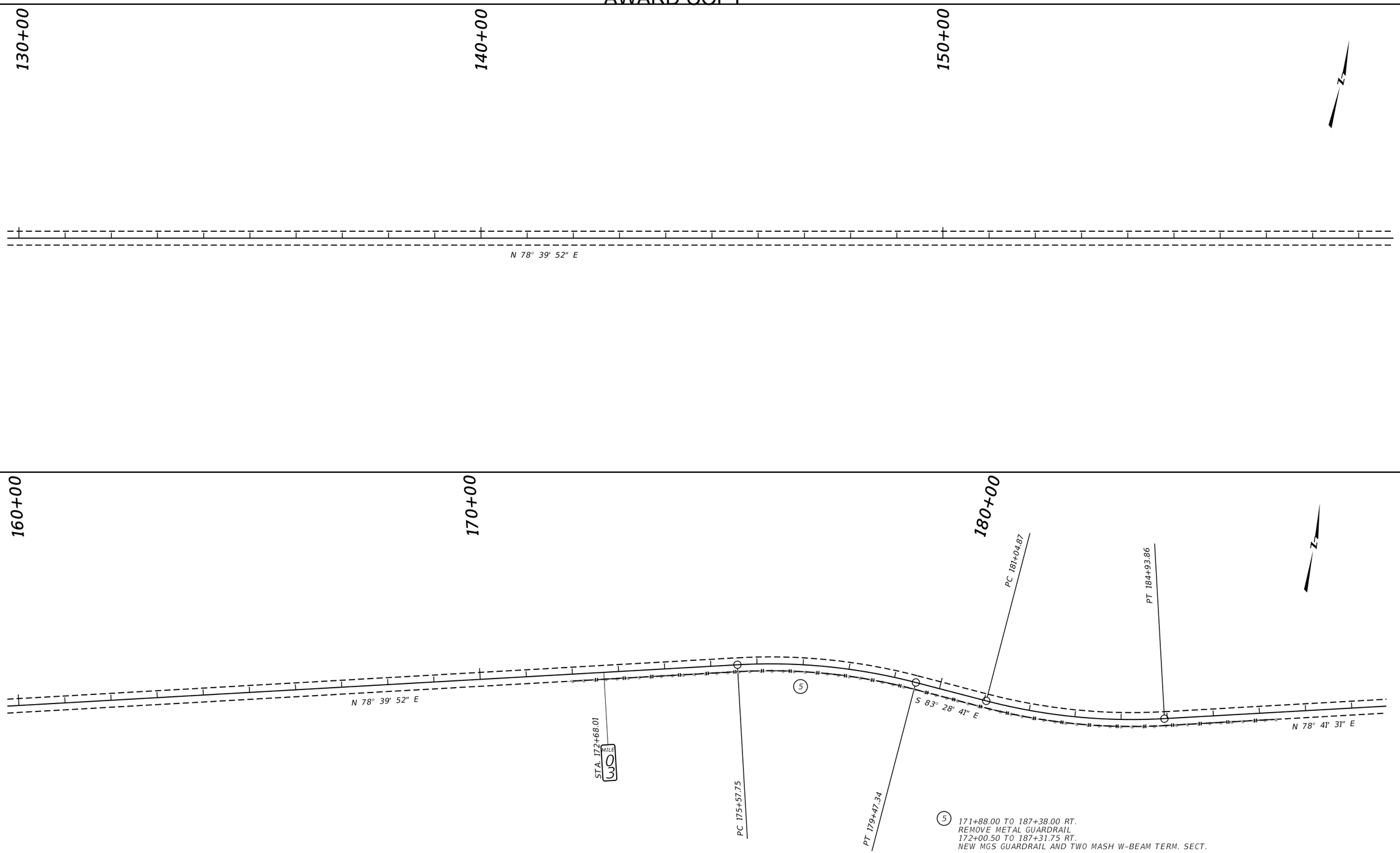
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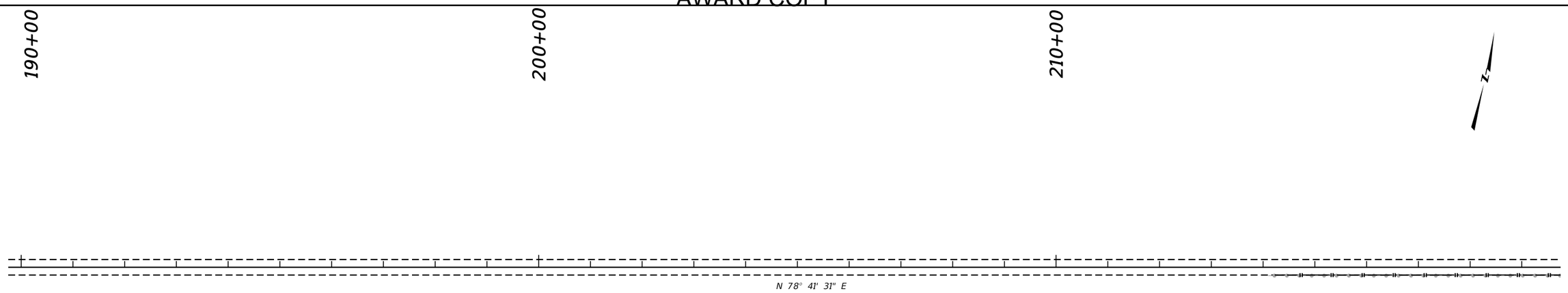
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1		1/24/2022	REVIEWED BY	K. MUELLER	9/29/2020			
		9:41:05 AM CPS - U1150	CHECKED BY	J. FLEMING	8/31/2021	JEFFERSON COUNTY	UPN 9740000	09

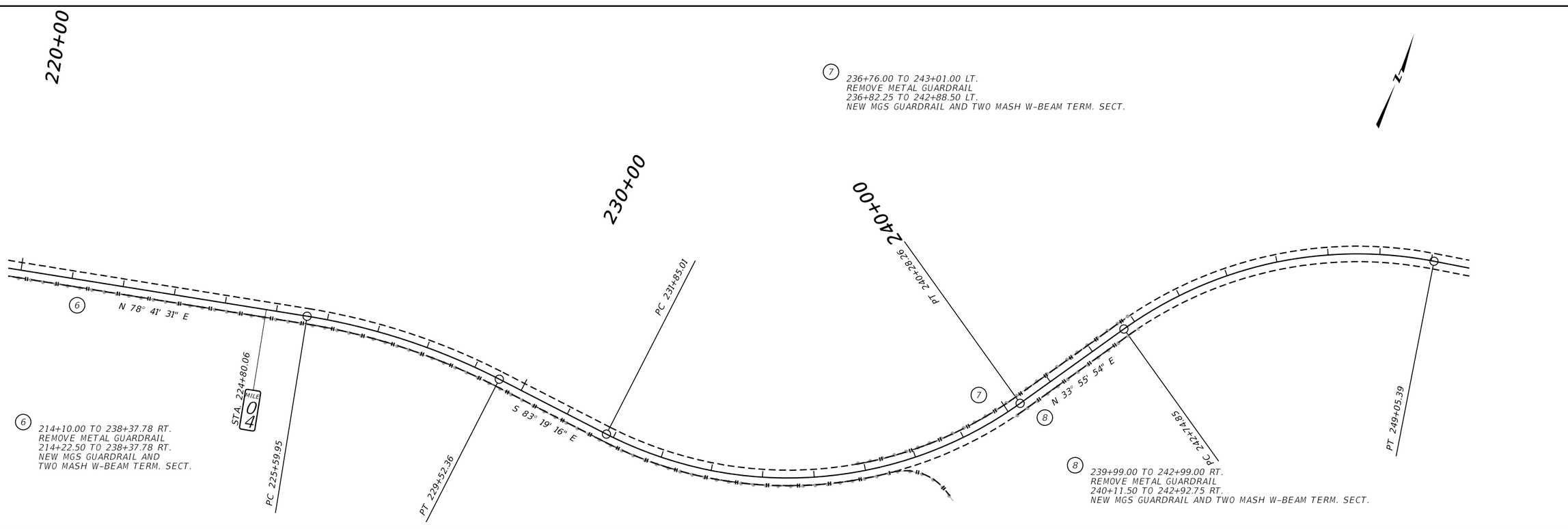
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2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9740000rdplp001.dgn	DESIGNED BY	J. BRAZILL	9/29/2020	ROAD PLANS	WHITEHALL - EAST / STPP 69-1(44)0
1		1/24/2022	REVIEWED BY	K. MUELLER	9/29/2020		
		9:41:08 AM CPS - U1150	CHECKED BY	J. FLEMING	8/31/2021	JEFFERSON COUNTY	UPN 9740000 / 10

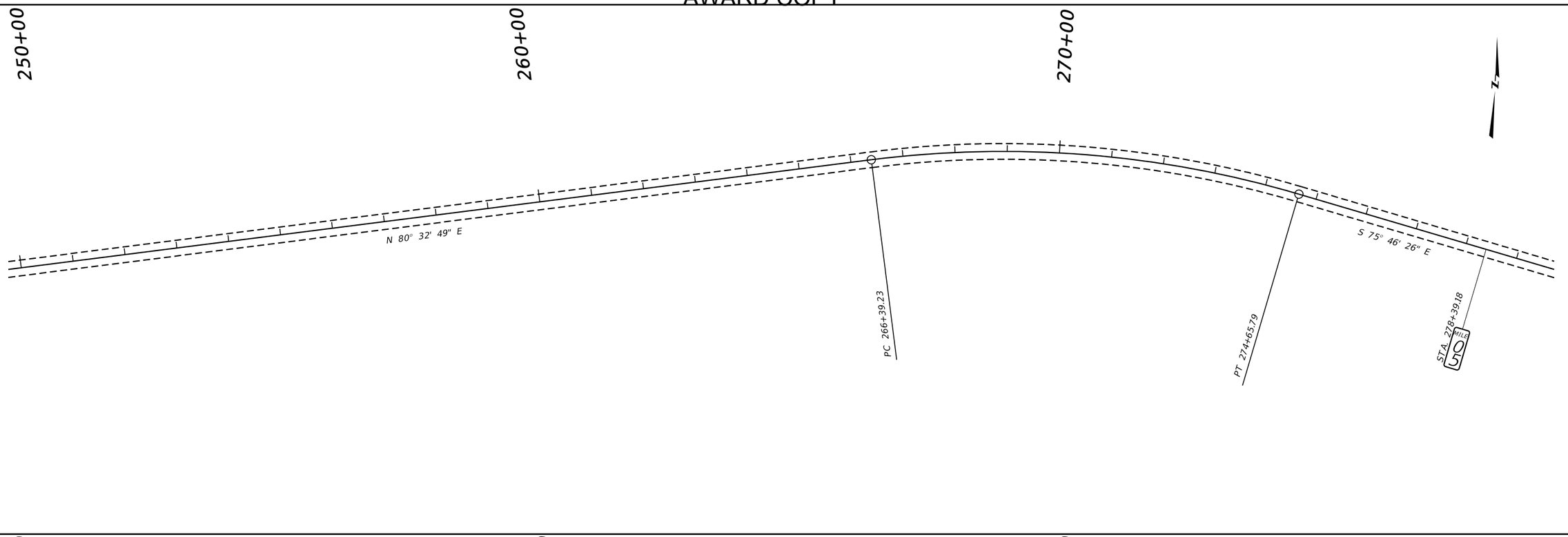
AWARD COPY

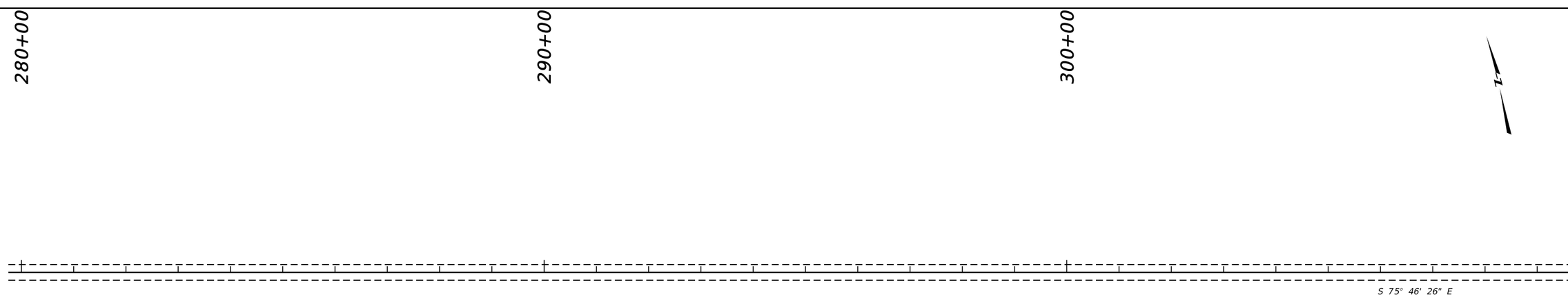




3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9740000rdplp002.dgn	DESIGNED BY	J. BRAZILL	9/29/2020	ROAD PLANS	WHITEHALL - EAST / STPP 69-1(44)0
2		1/24/2022	REVIEWED BY	K. MUELLER	9/29/2020		
		9:41:18 AM CPS - U1150	CHECKED BY	J. FLEMING	8/31/2021	JEFFERSON COUNTY	UPN 9740000 / 11

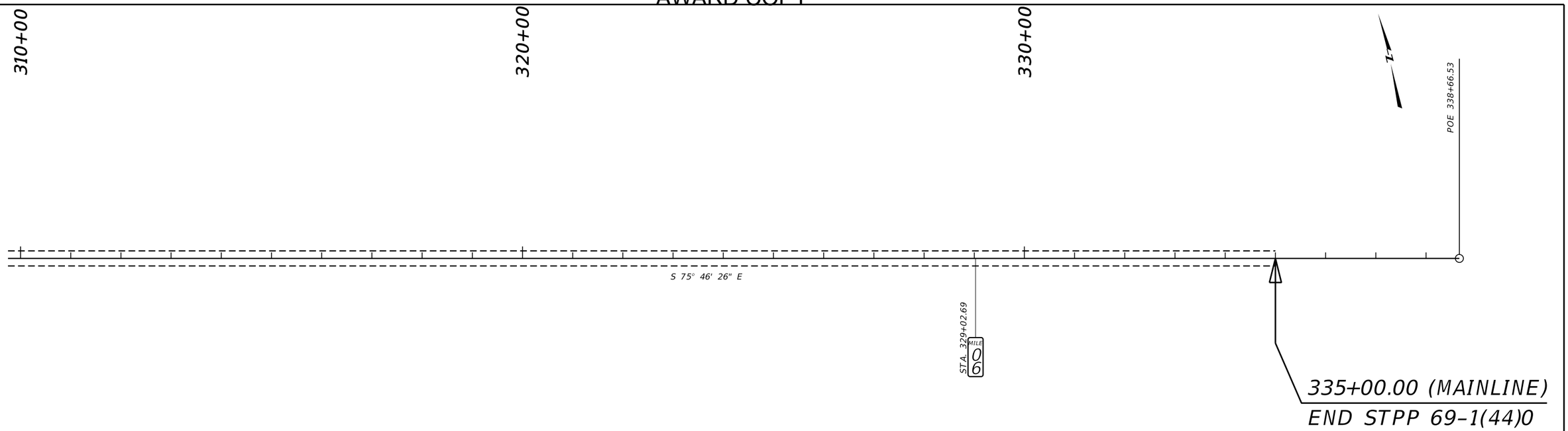
AWARD COPY





3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9740000rdplp002.dgn	DESIGNED BY	J. BRAZILL	9/29/2020	ROAD PLANS	WHITEHALL - EAST	STPP 69-1(44)0
		1/24/2022	REVIEWED BY	K. MUELLER	9/29/2020			
1		9:41:21 AM CPS - U1150	CHECKED BY	J. FLEMING	8/31/2021	JEFFERSON COUNTY	UPN 9740000	12

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2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9740000rdplp002.dgn	DESIGNED BY	J. BRAZILL	9/29/2020	ROAD PLANS	WHITEHALL - EAST	STPP 69-1(44)0
		1/24/2022	REVIEWED BY	K. MUELLER	9/29/2020			
1		9:41:24 AM CPS - U1150	CHECKED BY	J. FLEMING	8/31/2021	JEFFERSON COUNTY	UPN 9740000	13

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTALS	UNIT
SIGNS-ALUM SHEET INCR IV	108.0	SQFT
SIGNS-SHEET ALUM SHT INCR XI	64.0	SQFT
SIGNS-ALUM REFL SHEET IV	185.2	SQFT
SIGNS-ALUM REFL SHEET XI	431.7	SQFT
REMOVE SIGN	79	EACH
REMOVE SIGN-GUIDE	2	EACH
POSTS-TUBULAR STEEL	471	LB
POSTS-STEEL U SIGN	112	LB
POSTS-STEEL STRUCTURAL SIGN	620	LB
POSTS-TUBULAR STEEL-SQ-PERF	272	LB
POLES-TREATED WOOD 4 IN	338	LNFT
POLES-TREATED WOOD 5 IN	110	LNFT
FRANG SIGN POST BKWY -S3 X 5.7 (S75X8)	2	EACH
FRANG SIGN POST BKWY-S4 X 7.7 (S100X11)	4	EACH
FRANG SIGN POST BKWY-3.5 IN RD (89MM)	2	EACH
FRANG SIGN POST BKWY-4 IN RD (100 MM)	1	EACH
SQ TUBLR SLIP BASE BKWY-3 IN (76MM)	2	EACH
DELINEATOR DES A	162	EACH
DELINEATOR DES D	12	EACH
DELINEATOR DES F	22	EACH
DELINEATOR DES GJ	6	EACH

AWARD COPY

SIGN LOCATION AND SPECIFICATION

LT	STATION / R.P.	RT	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG BACK- GRND	REFL SHTG LEGEND	FEET CLEARANCE	FEET SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET SUPPORT LENGTH (ESTIMATED)	FEET SUPPORT LENGTH (INSTALLED)	FEET MOUNTING HEIGHT	FEET FOUNDATION DEPTH	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) ALUMINUM SHT OVERLAY	TIMBER POLE (LINEAR FT.) 4" TOP DIA.	TIMBER POLE (LINEAR FT.) 5" TOP DIA.	TIMBER POLE (LINEAR FT.) 6" TOP DIA.	STEEL POST (LBS.) ROUND TUBULAR	STEEL POST (LBS.) SQUARE TUBULAR	STEEL POST (LBS.) STRUCTURAL STEEL	STEEL POST (LBS.) "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET		REMARKS
MONTANA HIGHWAY 55																																		
	12.467	RT		M4-5A	24 x 12	IV	IV							7-0		2.0														1					TO REPLACE SIGN FACE ONLY
				M1-1	24 x 24	IV	IV									4.0																			INTERSTATE 90 REPLACE SIGN FACE ONLY
				M6-1A	21 x 15	IV	IV									2.2																			⬅ REPLACE SIGN FACE ONLY
				M1-5	24 x 24	XI												4.0																	MONTANA 55 REPLACE SIGN FACE ONLY
				M1-5	24 x 24	XI												4.0																	MONTANA 69 REPLACE SIGN FACE ONLY
				M6-1L	21 x 15	XI												2.2																	⬅ REPLACE SIGN FACE ONLY
				M6-3	21 x 15	XI												2.2																	⬆ REPLACE SIGN FACE ONLY
	12.476	LT		M1-5	24 x 24	XI								7-0				4.0												1					MONTANA 69 REPLACE SIGN FACE ONLY
				M6-1R	21 x 15	XI												2.2																	⬅ REPLACE SIGN FACE ONLY
				M1-5	24 x 24	XI												4.0																	MONTANA 55 REPLACE SIGN FACE ONLY
				M6-1L	21 x 15	XI	XI											2.2																	➡ REPLACE SIGN FACE ONLY
	12.477	LT		(2) D3-1	USE AS IS																													W LEGION AVENUE
				(2) D3-1	USE AS IS																													N WHITEHALL ST
				R1-1	USE AS IS																													
MONTANA HIGHWAY 69																																		
	0.010	RT		R1-1	30 x 30	XI	XI	2-0		2.5" SQ TUBE		11-0		7-0	3-0			5.2						58				▲	1					
	0.011	RT		BY OTHERS	USE AS IS																													HISTORIC MUSEUM
	0.012	RT		BY OTHERS	USE AS IS																													WHITEHALL
	0.017	LT		R7-3AL	12 x 18	XI	XI							7-0				1.5											1					NO PARKING HERE TO CORNER REPLACE SIGN FACE ONLY
				R99-1	USE AS IS																													5 MINUTE LOADING ZONE ONLY ⬅
	0.325	RT		R3-9B	36 x 48	XI								7-0				12.0											1					CENTER LANE ONLY REPLACE SIGN FACE ONLY
	0.048	LT		M2-1	21 x 15	XI								7-0				2.2											1					JCT REPLACE SIGN FACE ONLY
				M1-5	24 x 24	XI												4.0																	MONTANA 55 REPLACE SIGN FACE ONLY
	0.048	RT		M3-1	24 x 12	XI								7-0				2.0											1					NORTH REPLACE SIGN FACE ONLY
				M1-5	24 x 24	XI												4.0																	MONTANA 69 REPLACE SIGN FACE ONLY
	0.064	RT		POST	REMOVE																								1					
	0.070	LT		CITY-1	USE AS IS									7-0															1					IN MEMORY OF GEORGE SMITH
				(2) D3-1	42 x 10	IV	IV									5.8																			W LEGION AVE REPLACE SIGN FACE ONLY
				(2) D3-1	30 x 10	IV	IV									4.2																			N MAIN ST REPLACE SIGN FACE ONLY
				R1-1	30 x 30	XI	XI											5.2																	REPLACE SIGN FACE ONLY

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

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

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

3 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	9740000SISUMZ01.DGN 1/25/2022 9:30:50 AM trish	DESIGNED BY TRISH BODLOVIC REVIEWED BY CHECKED BY NATHAN STYREN	SIGNING PLANS JEFFERSON COUNTY	WHITEHALL - EAST UPN 9740000	STPP 69-1(44)0 S2

AWARD COPY

SIGN LOCATION AND SPECIFICATION

LT	STATION / R.P.	RT	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG BACK- GRND	REFL SHTG LEGEND	FEET CLEARANCE	FEET SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET SUPPORT LENGTH (ESTIMATED)	FEET SUPPORT LENGTH (INSTALLED)	FEET MOUNTING HEIGHT	FEET FOUNDATION DEPTH	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) ALUMINUM SHT OVERLAY	TIMBER POLE (LINEAR FT.) 4" TOP DIA.	TIMBER POLE (LINEAR FT.) 5" TOP DIA.	TIMBER POLE (LINEAR FT.) 6" TOP DIA.	STEEL POST (LBS.) ROUND TUBULAR	STEEL POST (LBS.) SQUARE TUBULAR	STEEL POST (LBS.) STRUCTURAL STEEL	STEEL POST (LBS.) "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET		REMARKS
	0.092	RT		S1-1	36 x 36	XI								7-1		IV	IV	XI	XI										1				FYG	SCHOOL CROSSING REPLACE SIGN FACE ONLY
				S1-1SA	REMOVE																													1 BLOCK
				W16-9P	36 x 12	XI												3.0															FYG	AHEAD
	0.093	RT		BY OTHERS	USE AS IS																													RECREATION AREA
LT	0.138			R3-9B	36 x 48	XI								7-0				12.0											1					CENTER LANE ONLY REPLACE SIGN FACE ONLY
	0.142	RT		OH S1-1	36 x 36	XI		MOUNT ON EXISTING CANTILEVER STRUCTURE										4.5											1				FYG	SCHOOL CROSSING REPLACE SIGN FACE ONLY
				W16-7P	30 x 18	XI								7-0				3.8															FYG	MOUNT ON CANTILEVER POLE
				OH S2-1	REMOVE																													STOP WHEN OCCUPIED
	0.145	RT		BY OTHERS	USE AS IS																													MUSEUM 3 BLOCKS RODEO GROUNDS
LT	0.149			CITY-2	USE AS IS									7-0															1					IN MEMORY OF RALPH SULLENDER
				(2) D3-1	42 x 10	IV	IV									5.8																		W LEGION AVE REPLACE SIGN FACE ONLY
				(2) D3-1	42 x 10	IV	IV									5.8																		N DIVISION ST REPLACE SIGN FACE ONLY
				R1-1	36 x 36	XI	XI											7.5																REPLACE SIGN FACE ONLY
	0.157	RT		(2) D3-1	42 x 10	IV	IV	2-0		2.25"/2.5" SQ TUBE		12-8		7-0	3-0	5.8									63			★	1					W LEGION AVE
				(2) D3-1	42 x 10	IV	IV									5.8																		N DIVISION ST
				R1-1	36 x 36	XI	XI											7.5																
LT	0.170			OH S1-1	36 x 36	XI		MOUNT ON EXISTING CANTILEVER STRUCTURE										6.8											1				FYG	SCHOOL CROSSING REPLACE SIGN FACE ONLY
				W16-7P	30 x 18	XI								7-0				3.8															FYG	MOUNT ON CANTILEVER POLE
				OH S2-1	REMOVE																													STOP WHEN OCCUPIED
LT	0.216			S1-1	USE AS IS																													SCHOOL CROSSING
				W16-9P	USE AS IS																													AHEAD
	0.219	RT		R3-9B	36 x 48	XI								7-0				12.0											1					CENTER LANE ONLY REPLACE SIGN FACE ONLY
LT	0.223			(2) D3-1	USE AS IS																													E LEGION AVE
				(2) D3-1	USE AS IS																													N JEFFERSON ST
				R1-1	USE AS IS																													
LT	0.295			R3-9B	36 x 48	XI								7-0				12.0											1					CENTER LANE ONLY REPLACE SIGN FACE ONLY
LT	0.303			(2) D3-1	USE AS IS																													E LEGION AVE
				(2) D3-1	USE AS IS																													N A ST
				R1-1	USE AS IS																													
LT	0.381			CITY-3	USE AS IS									7-0																				IN MEMORY OF JOSEPH PIAZZOLA
				(2) D3-1	42 x 10	IV	IV									5.8																		E LEGION AVE REPLACE SIGN FACE ONLY
				(2) D3-1	24 x 10	IV	IV									3.3																		N B ST REPLACE SIGN FACE ONLY
				R1-1	30 x 30	XI	XI											5.2																REPLACE SIGN FACE ONLY

★ TELESCOPED SQUARE TUBES (2¼" & 2½") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

FYG = TYPE XI FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

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

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

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SIGN LOCATION AND SPECIFICATION

LT	STATION / R.P.	RT	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG BACK- GRND	REFL SHTG LEGEND	FEET CLEARANCE	FEET SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET SUPPORT LENGTH (ESTIMATED)	FEET SUPPORT LENGTH (INSTALLED)	FEET MOUNTING HEIGHT	FEET FOUNDATION DEPTH	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) ALUMINUM SHT OVERLAY	TIMBER POLE (LINEAR FT.) 4" TOP DIA.	TIMBER POLE (LINEAR FT.) 5" TOP DIA.	TIMBER POLE (LINEAR FT.) 6" TOP DIA.	STEEL POST (LBS.) ROUND TUBULAR	STEEL POST (LBS.) SQUARE TUBULAR	STEEL POST (LBS.) STRUCTURAL STEEL	STEEL POST (LBS.) "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET		REMARKS
	0.399			R2-1	36 x 48	XI								7-0				12.0												1					SPEED LIMIT 25
LT																																		REPLACE SIGN FACE ONLY
	0.402			R2-1	36 x 48	XI								7-0				12.0												1					SPEED LIMIT 35
		RT																																REPLACE SIGN FACE ONLY
	0.445			R3-9K	36 x 48	XI								7-0				12.0												1					END CENTER LANE
		RT																																REPLACE SIGN FACE ONLY
	0.446			POST	REMOVE																									1					BREAKAWAY ONLY
LT																																		
	0.446			R3-9J	36 x 48	XI		2-0		2.25"/2.5" SQ TUBE		11-0		7-0	3-0			12.0							88			★					BB	BEGIN CENTER LANE
LT																																		
	0.457			CITY-4	USE AS IS									7-0															1					IN MEMORY OF WILLIAM MCDOUGALL
LT																																		
				(2) D3-1	42 x 10	IV	IV									5.8																		E LEGION AVE
																																		REPLACE SIGN FACE ONLY
				(2) D3-1	24 x 10	IV	IV									3.3																		N C ST
																																		REPLACE SIGN FACE ONLY
				R1-1	30 x 30	XI	XI											5.2																
																																		REPLACE SIGN FACE ONLY
	0.610			CITY-4	USE AS IS			2-0		2.5" SQ TUBE		12-8		7-0	3-0										63			▲	1					IN MEMORY OF DANIEL SULLIVAN
LT																																		
				(2) D3-1	42 x 10	IV	IV									5.8																		E LEGION AVE
				(2) D3-1	24 x 10	IV	IV									3.3																		N D ST
				R1-1	30 x 30	XI	XI											5.2																
	0.624			R2-1	24 x 30	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.0			14								1					SPEED LIMIT 35
LT																																		
	0.626			R2-1	24 x 30	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.0											1					SPEED LIMIT 45
		RT																																
	0.678			(2) D3-1	36 x 10	IV	IV	6-0		4" DIA POLE		11-5		5-0	3-0	5.0													1					S RAIL ROAD
		RT																																
				R1-1	30 x 30	XI	XI											5.2																
	0.718			N6-1	60 x 24	IV	IV							7-0		10.0													1					ENTERING WHITEHALL
LT																																		REPLACE SIGN FACE ONLY
	0.721			G69-0A	108 x 54	IV	IV	20-0	5-5	S4 x 7.7		X=14-6 Y=15-6		7-0	3-6		40.5								231			■	1					Δ
	0.751			N6-2	42 x 18	IV	IV	5-0		4" DIA POLE		9-6		5-0	3-0	5.3					10								1					WHITETAIL CREEK
		RT																																BEHIND GUARDRAIL
	0.766			N6-2	42 x 18	IV	IV	5-0		4" DIA POLE		9-6		5-0	3-0	5.3					10								1					WHITETAIL CREEK
LT																																		BEHIND GUARDRAIL
	0.854			W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE
		RT																																
	0.990			N7-1	36 x 48	IV	IV	20-0		5" DIA POLE		18-0		5-1	3-6	12.0						18						X	1					ADOPT A HIGHWAY LITTER CONTROL
		RT																																NEXT 2 MILES REPLACE FROM STA. 0.865
				N7-1P	USE AS IS																													WHS TROJAN FOOTBALL
	0.990			(2) D10-1	10 x 18	IV	IV	4-0		2 LB/FT STEEL U		9-0		4-0	3-0	2.5											19		1					MILE 1
		RT																																
	1.000			W11-13	36 x 36	XI		10-0		5" DIA POLE		14-3		5-7	3-6			9.0				16						X	1					WILDLIFE CROSSING - REMOVE
		RT																																WILDLIFE CROSSING SIGN AT RP 1.724
				W7-3A	24 x 18	XI												3.0																NEXT 5 MILES
	1.054			R2-1	24 x 30	XI		10-0		4" DIA POLE		12-7		5-7	3-0			5.0			14								1					SPEED LIMIT 70
		RT																																
				R2-3A	24 x 18		XI											3.0																NIGHT LIMIT 65
	1.067			R2-1	24 x 30	XI		10-0		4" DIA POLE		13-7		6-7	3-0			5.0			14								1					SPEED LIMIT 45
LT																																		
				R2-11	24 x 30		XI											3.0																SPEED CHECKED BY RADAR

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

■ FRANGIBLE SIGN POST BREAKAWAY DEVICE REQUIRED.

★ TELESCOPED SQUARE TUBES (2¼" & 2½") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

BB = BACK BRACING REQUIRED:
-FOR WOOD POST 2"x 4" REQ'D.
-FOR STRUCTURAL STEEL 2"x 2"x ¼" ANGLE IRON REQ'D.

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

Δ

CARDWELL	9
BOULDER	39
HELENA	66

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	9740000S1SUMZ02.DGN	DESIGNED BY	TRISH BODLOVIC	SIGNING PLANS	WHITEHALL - EAST	STPP 69-1(44)0
2		1/25/2022	REVIEWED BY				
		9:32:50 AM trish	CHECKED BY	NATHAN STYREN	JEFFERSON COUNTY	UPN 9740000	S4

AWARD COPY

SIGN LOCATION AND SPECIFICATION

LT	STATION / R.P.	RT	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG BACK- GRND	REFL SHTG LEGEND	FEET CLEARANCE	FEET SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET SUPPORT LENGTH (ESTIMATED)	FEET SUPPORT LENGTH (INSTALLED)	FEET MOUNTING HEIGHT	FEET FOUNDATION DEPTH	SIGN PANEL (SQ. FT.) SHEET ALUMINUM IV	ALUM. SHEET INCREMENT IV	SHEET ALUMINUM XI	ALUM. SHEET INCREMENT XI	ALUMINUM SHT OVERLAY	TIMBER POLE (LINEAR FT.) 4" TOP DIA.	5" TOP DIA.	6" TOP DIA.	STEEL POST (LBS.) ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET		REMARKS
	1.089	RT		R2-6A	USE AS IS																													TRUCK SPEED LIMIT 65
LT	1.098			W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE
LT	1.188			(2) D3-1	36 x 10	IV	IV	6-0		4" DIA POLE		11-5		5-0	3-0	5.0					12								1					MORMON LN
				R1-1	30 x 30	XI	XI											5.2															
LT	1.225			R2-5A	REMOVE			10-0		4" DIA POLE		14-7		5-0	3-0						16								1					REDUCED SPEED AHEAD
				W3-5	36 x 36	XI												9.0															
	1.288	RT		W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE
	1.301	RT		R99-2	REMOVE																								1					DO NOT PASS WHEN SOLID LINE IS IN YOUR LANE
LT	1.463			W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE
	1.641	RT		D3-1	REMOVE																								1					BRIGGS LN
	1.654	RT		(2) D3-1	30 x 10	IV	IV	6-0		4" DIA POLE		11-5		5-0	3-0	4.2					12								1					BRIGGS LN
				R1-1	30 x 30	XI	XI											5.2															
	1.815	RT		W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE
	2.057	RT		(2) D10-1	10 x 18	IV	IV	4-0		2 LB/FT STEEL U		9-0		4-0	3-0	2.5											19		1					MILE 2 MOUNT BACK TO BACK
LT	2.489			(2) R5-3	USE AS IS																								1					NO MOTOR VEHICLES
	2.675	RT		BY OTHERS	USE AS IS																													CASAGRANDE
LT	2.821			W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE
	2.912	RT		N7-1	36 x 48	IV	IV	20-0		5" DIA POLE		13-7		5-1	3-6							14						X	1					ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES
				N7-1P	USE AS IS																													GOLDEN SUNLIGHT MINE
	3.014	RT		(2) D10-1	10 x 18	IV	IV	4-0		2 LB/FT STEEL U		9-0		4-0	3-0	2.5											19		1					MILE 3 MOUNT BACK TO BACK
LT	3.014			N7-1	36 x 48	IV	IV	20-0		5" DIA POLE		18-0		5-7	3-6	12.0						18						X	1					ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES
				N7-1P	USE AS IS																													WHS TROJAN FOOTBALL
	3.362	RT		W11-3	REMOVE																								1					DEER CROSSING SYMBOL
				W7-3A	REMOVE																													NEXT 2 MILES
	3.391			W11-3	REMOVE																								1					DEER CROSSING SYMBOL
LT				W99-1	REMOVE																													DEER XING
	3.611	RT		W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE
LT	3.790			W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

BB = BACKBRACING REQUIRED:
-FOR WOOD POST 2"x 4" REQ'D.
-FOR STRUCTURAL STEEL 2"x 2"x ¼" ANGLE IRON REQ'D.

X STANDARD BREAKAWAY DEVICE:
-FOR WOOD POST SEE DETAILED DRAWING 619-20.
-FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

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

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SIGN LOCATION AND SPECIFICATION

LT	STATION / R.P.	RT	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG BACK- GRND	REFL SHTG LEGEND	FEET CLEARANCE	FEET SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET SUPPORT LENGTH (ESTIMATED)	FEET SUPPORT LENGTH (INSTALLED)	FEET MOUNTING HEIGHT	FEET FOUNDATION DEPTH	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) ALUMINUM SHT OVERLAY	TIMBER POLE (LINEAR FT.) 4" TOP DIA.	TIMBER POLE (LINEAR FT.) 5" TOP DIA.	TIMBER POLE (LINEAR FT.) 6" TOP DIA.	STEEL POST (LBS.) ROUND TUBULAR	STEEL POST (LBS.) SQUARE TUBULAR	STEEL POST (LBS.) STRUCTURAL STEEL	STEEL POST (LBS.) "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET		REMARKS
																IV	IV	XI	XI															
	3.926	RT		S3-1	30 x 30	XI		10-0		4" DIA POLE		13-4		5-0	3-0			6.3			14									1				FYG	SCHOOL BUS STOP AHEAD BEHIND GUARDRAIL
	3.988	RT		(2) D10-1	10 x 18	IV	IV	4-0		2 LB/FT STEEL U		9-0		4-0	3-0	2.5												19		1					MILE 4 MOUNT BACK TO BACK BEHIND GUARDRAIL
	4.062	RT		FWP-1	USE AS IS																													MAYFLOWER BRIDGE FISHING ACCESS BEHIND GUARDRAIL
				FWP-2	USE AS IS																													FISHING ACCESS BEHIND GUARDRAIL
				FWP-3	USE AS IS																													TURN AHEAD BEHIND GUARDRAIL
	4.085	RT		W1-4L	USE AS IS																													BEHIND GUARDRAIL
				W13-1	USE AS IS																													55 MPH BEHIND GUARDRAIL
	4.124	RT		W2-2R	48 x 48	XI		6-0		3.5" DIA PIPE		11-5		5-0	3-6				16.0					140				X	1				FY BB	MDT BREAKAWAY BEHIND GUARDRAIL
	4.125	RT		(2) W1-8	USE AS IS																													BEHIND GUARDRAIL
	4.155	RT		(2) W1-8	USE AS IS																													BEHIND GUARDRAIL
	4.185	RT		(2) W1-8	USE AS IS																													BEHIND GUARDRAIL
	4.215	RT		(2) W1-8	USE AS IS																													BEHIND GUARDRAIL
	4.243	RT		(2) W1-8	USE AS IS																													⬅ BEHIND GUARDRAIL
	4.255	RT		(2) D3-1	30 x 10	IV	IV	6-0		4" DIA POLE		11-5		5-0	3-0	4.2					12								1					TEBAY LN
				R1-1	30 x 30	XI	XI											5.2																
	4.255	RT		D3-1	REMOVE																								1					TEBAY LN
	4.265	RT		(2) FWP-1	BY OTHERS																													MAYFLOWER BRIDGE FISHING ACCESS MOUNT BACK TO BACK
				(2) FWP-4	BY OTHERS																													1 MILE MOUNT BACK TO BACK
	4.275	RT		(2) W1-8	USE AS IS																													
LT	4.295			R99-3	USE AS IS																													NO TRESPASSING PROPERTY OF DEPARTMENT OF TRANSPORTATION
	4.300	RT		(2) W1-8	USE AS IS																													
	4.302	RT		W12-4	120 x 24	XI		MOUNT ON OVERPASS										20.0											1					14 FT 8 IN REPLACE SIGN FACE ONLY
LT	4.318			R99-3	USE AS IS																													NO TRESPASSING PROPERTY OF DEPARTMENT OF TRANSPORTATION
LT	4.331			W12-4	120 x 24	XI		MOUNT ON OVERPASS										20.0											1					14 FT 8 IN REPLACE SIGN FACE ONLY
LT	4.334			(2) W1-8	USE AS IS																													
	4.340	RT		R99-3	USE AS IS																													NO TRESPASSING PROPERTY OF DEPARTMENT OF TRANSPORTATION
LT	4.348			(2) D3-1	42 x 18	IV	IV	6-0		4" DIA POLE		12-1		5-0	3-0	10.5					14								1					YELLOWSTONE RD
				R1-1	30 x 30	XI	XI											5.2																
LT	4.355			W14-1	USE AS IS																													

FYG = TYPE XI FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

BB=BACKBRACING REQUIRED:
-FOR WOOD POST 2"x 4" REQ'D.
-FOR STRUCTURAL STEEL 2"x 2"x ¼" ANGLE IRON REQ'D.

X *STANDARD BREAKAWAY DEVICE:*
-FOR WOOD POST SEE DETAILED DRAWING 619-20.
-FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

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

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SIGN LOCATION AND SPECIFICATION

LT	STATION / R.P.	RT	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG BACK- GRND	REFL SHTG LEGEND	FEET CLEARANCE	FEET SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET SUPPORT LENGTH (ESTIMATED)	FEET SUPPORT LENGTH (INSTALLED)	FEET MOUNTING HEIGHT	FEET FOUNDATION DEPTH	SIGN PANEL (SQ. FT.) SHEET ALUMINUM IV	ALUM. SHEET INCREMENT IV	SHEET ALUMINUM XI	ALUM. SHEET INCREMENT XI	ALUMINUM SHT OVERLAY	TIMBER POLE (LINEAR FT.) 4" TOP DIA.	5" TOP DIA.	6" TOP DIA.	STEEL POST (LBS.) ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET		REMARKS
LT	4.363			(2) W1-8	USE AS IS																												
LT	4.388			(2) W1-8	USE AS IS																												
LT	4.412			(2) W1-8	USE AS IS																												
	4.424	RT		W11-15	48 x 48	XI		10-0		3.5" DIA PIPE		12-1		5-0	3-0				16.0					110				■	1				FY BB	TRUCKS ENTERING HINGED
LT	4.443			(2) W1-8	USE AS IS																												
LT	4.471			W2-2	48 x 48	XI		10-0		4" DIA PIPE		10-3		5-0	3-0				16.0					111				■	1				FY BB	
LT	4.473			(2) W1-8	USE AS IS																												
LT	4.514			W1-4L	USE AS IS																												
				W13-1	USE AS IS																												55 MPH
LT	4.613			R1-1	36 x 36	XI	XI	6-0		4" DIA POLE		11-5		5-0	3-0			7.5			12								1				
LT	4.670			FWP-1	BY OTHERS																												MAYFLOWER BRIDGE FISHING ACCESS
				FWP-3	BY OTHERS																												TURN AHEAD
LT	4.815			W11-15	48 x 48	XI		10-0		3.5" DIA PIPE		12-1		5-0	3-0				16.0					110				■	1				FY BB	TRUCKS ENTERING HINGED
LT	4.901	RT		W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE
	4.983	RT		NPS-1	BY OTHERS																												LEWIS AND CLARK CAVERNS STATE PARK
				NPS-2	BY OTHERS																												10 MILES AHEAD
LT	5.005			N7-1	36 x 48	IV	IV	20-0		5" DIA POLE		12-7		5-1	3-6	12.0						14							X	1				ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES
				N7-1P	USE AS IS																												GOLDEN SUNLIGHT MINE
	5.005	RT		(2) D10-1	10 x 18	IV	IV	4-0		2 LB/FT STEEL U		9-0		4-0	3-0	2.5											18		1				MILE 5 MOUNT BACK TO BACK
	5.005	RT		N7-1	36 x 48	IV	IV	20-0		5" DIA POLE		12-7		5-1	3-6	12.0						14							X	1				ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES
LT	5.789			R2-6A	USE AS IS																												TRUCK SPEED LIMIT 65
LT	5.825			R2-1	24 x 30	XI		10-0		4" DIA POLE		13-0		5-7	3-0			5.0			14								1				SPEED LIMIT 70
				R2-3A	24 x 18		XI											3.0															NIGHT 65
LT	5.919			W14-3	48 x 48 x 36	XI		10-0		4" DIA POLE		12-4		5-0	3-0			5.5			14								1				FY BB	NO PASSING ZONE
	5.960	RT		(2) D10-1	10 x 18	IV	IV	4-0		2 LB/FT STEEL U		9-0		4-0	3-0	2.5											18		1				MILE 6 MOUNT BACK TO BACK
LT	6.000			W11-13	36 x 36	XI		10-0		5" DIA POLE		14-3		5-7	3-6			9.0				16							X	1				WILDLIFE CROSSING - REMOVE WILDLIFE CROSSING SIGN AT RP 5.362
				W7-3A	24 x 18	XI												3.0															NEXT 5 MILES
	6.045	RT		M2-1	21 x 15	XI		10-0		4" DIA POLE		14-7		5-0	3-0			2.2			16								1				JCT
				M1-12	24 x 24	XI												4															ROUTE MARKER 359

■ FRANGIBLE SIGN POST BREAKAWAY DEVICE REQUIRED.

X STANDARD BREAKAWAY DEVICE:
-FOR WOOD POST SEE DETAILED DRAWING 619-20.
-FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

FY =TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

BB=BACKBRACING REQUIRED:
-FOR WOOD POST 2"x 4" REQ'D.
-FOR STRUCTURAL STEEL 2"x 2"x ¼" ANGLE IRON REQ'D.

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

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SIGN LOCATION AND SPECIFICATION

LT	STATION / R.P.	RT	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG BACK- GRND	REFL SHTG LEGEND	FEET CLEARANCE	FEET SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET SUPPORT LENGTH (ESTIMATED)	FEET SUPPORT LENGTH (INSTALLED)	FEET MOUNTING HEIGHT	FEET FOUNDATION DEPTH	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) SHEET ALUMINUM	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT	SIGN PANEL (SQ. FT.) ALUMINUM SHT OVERLAY	TIMBER POLE (LINEAR FT.) 4" TOP DIA.	TIMBER POLE (LINEAR FT.) 5" TOP DIA.	TIMBER POLE (LINEAR FT.) 6" TOP DIA.	STEEL POST (LBS.) ROUND TUBULAR	STEEL POST (LBS.) SQUARE TUBULAR	STEEL POST (LBS.) STRUCTURAL STEEL	STEEL POST (LBS.) "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET		REMARKS
	6.113			G69-6D	108 x 24	IV	IV	20-0	5-5	S3 x 5.7		X=13-0 Y=12-0		7-0	3-6		18.0									143		■			1				WHITEHALL 6
LT	6.122	RT		G69-6C	108 X 66	IV	IV	20-0	5-5	S4 x 7.7		X=15-6 Y=16-6		7-0	3-6		49.5									246		■			1				Δ
	6.164	RT		M1-12	USE AS IS																													ROUTE MARKER 359
				M1-5	USE AS IS																													MONTANA 69
				M6-1L	USE AS IS																													←
				M6-3	USE AS IS																													↑
	6.168	RT		M4-5A	USE AS IS									5-0															1					TO BGR
				M1-1	24 x 24	IV	IV									4.0																		INTERSTATE 90 MOUNT ON EXIST. POLE REPLACE SIGN FACE ONLY BGR
				M6-4A	USE AS IS																													BGR
				M1-12	24 x 24	XI												4.0																	ROUTE MARKER 369 MOUNT ON EXISTING POLE BGR
				M1-5	24 x 24	XI												4.0																	MONTANA 69 MOUNT ON EXISTING POLE BGR
				M6-1R	USE AS IS																													BGR
				M6-1L	USE AS IS																													BGR
	6.171	RT		W1-7A	USE AS IS																													BGR
	6.174	RT		G69-6B	USE AS IS																													Θ
LT	6.185			R1-1	36 x 36	XI	XI	6-0		4" DIA POLE		12-3		5-0	3-0			7.5			14								1					
	6.240	RT		G69-6A	USE AS IS																													*
LT	6.269			NPS-3	BY OTHERS																													LEWIS AND CLARK CAVERNS
				NPS-4	BY OTHERS																													← 2 MILES
	6.279	RT		M3-1	USE AS IS									5-0															1					NORTH
				M1-5	24 x 24	XI												4.0																	MONANA 69 MOUNT ON EXISTING POLE
LT	6.313			POST	REMOVE																								1					
	6.362	RT		W11-3	USE AS IS																													WILDLIFE CROSSING
	6.367	RT		W14-3	USE AS IS																													NO PASSING ZONE
LT	6.367			W3-1A	USE AS IS																													STOP AHEAD WITH FLASHING LIGHTS
LT	6.405			M2-1	USE AS IS																													JCT
				M1-12	USE AS IS																													ROUTE MARKER 359

■ *FRANGIBLE SIGN POST BREAKAWAY DEVICE REQUIRED.*

BGR = BEHIND GUARDRAIL

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

Δ
CARDWELL
BOULDER
HELENA

Θ
CARDWELL
WHITEHALL

*
BOULDER 32
HELENA 59

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3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	9740000S1SUMZ03.DGN 1/25/2022 9:34:59 AM trish	DESIGNED BY TRISH BODLOVIC REVIEWED BY CHECKED BY NATHAN STYREN		SIGNING PLANS JEFFERSON COUNTY		WHITEHALL - EAST UPN 9740000	STPP 69-1(44)0 S8

AWARD COPY

SIGN LOCATION AND SPECIFICATION

LT	STATION / R.P.	RT	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG BACK- GRND	REFL SHTG LEGEND	FEET CLEARANCE	FEET SIGN SUPPORT SPACING	TYPE OF SUPPORT	CANTILEVER	FEET SUPPORT LENGTH (ESTIMATED)	FEET SUPPORT LENGTH (INSTALLED)	FEET MOUNTING HEIGHT	FEET FOUNDATION DEPTH	SIGN PANEL (SQ. FT.) SHEET ALUMINUM IV	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT IV	SIGN PANEL (SQ. FT.) SHEET ALUMINUM XI	SIGN PANEL (SQ. FT.) ALUM. SHEET INCREMENT XI	SIGN PANEL (SQ. FT.) ALUMINUM SHT OVERLAY	TIMBER POLE (LINEAR FT.) 4" TOP DIA.	TIMBER POLE (LINEAR FT.) 5" TOP DIA.	TIMBER POLE (LINEAR FT.) 6" TOP DIA.	STEEL POST (LBS.) ROUND TUBULAR	STEEL POST (LBS.) SQUARE TUBULAR	STEEL POST (LBS.) STRUCTURAL STEEL	STEEL POST (LBS.) "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET		REMARKS
MONTANA ROUTE 359																																	
	0.020	RT		M3-3	USE AS IS																												SOUTH
				M1-12	USE AS IS																												ROUTE MARKER 359
LT	0.047			G359-0A	USE AS IS																												Δ
	0.055	RT		G359-0B	USE AS IS																												⊖
TOTAL																185.2	108.0	431.7	64.0		338	110		471	272	620	112		79		2			

Δ



⊖



DELINEATOR LEGEND

⊣	DELINEATOR DES "A"	162
⊩⊢	DELINEATOR DES "D"	12
⊢	DELINEATOR DES "F"	22
⊢	DELINEATOR DES "GJ"	6

ROUND PIPE SUPPORT	
TUBE SIZE	WEIGHT
2 ½"	5.79 lbs/ft
3"	7.58 lbs/ft
3½"	9.11 lbs/ft
4"	10.79 lbs/ft
5"	14.62 lbs/ft

For estimating purposes only.

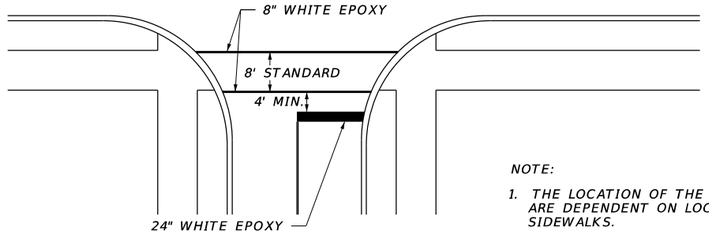
SQUARE TUBE SUPPORT		
TUBE SIZE	WEIGHT	WALL THICKNESS
2"	2.42 lbs/ft	0.105" (12 GAUGE)
2¼"	2.77 lbs/ft	0.105" (12 GAUGE)
2½"	3.14 lbs/ft	0.105" (12 GAUGE)
SQUARE TUBE ANCHOR		
TUBE SIZE	WEIGHT	WALL THICKNESS
2½"	18.36 lbs ea.	0.135"
3"	22.98 lbs ea.	0.188"

For estimating purposes only.

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PAVEMENT MARKING DETAILS

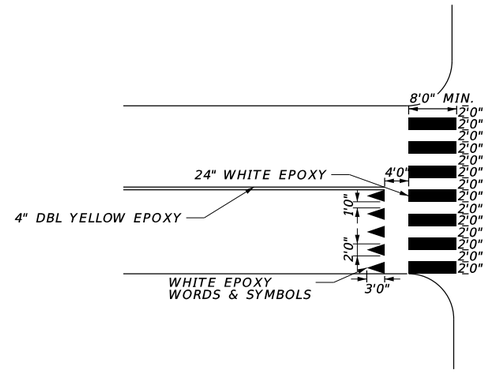


NOTE:

1. THE LOCATION OF THE CROSSWALK LINES ARE DEPENDENT ON LOCATION OF THE SIDEWALKS.
2. EXTEND CROSSWALKS TO CURB. DO NOT OVERLAP.

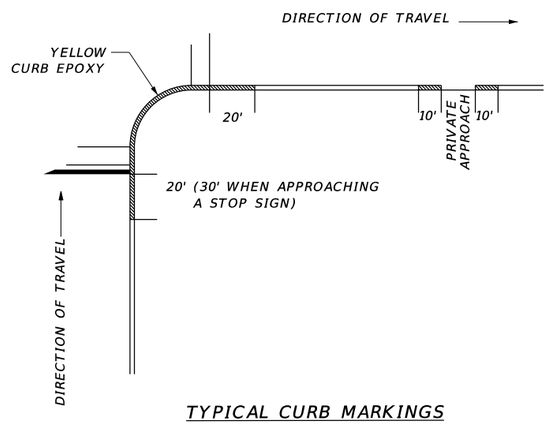
TYPICAL PAVEMENT MARKINGS FOR PEDESTRIAN CROSSINGS

NO SCALE



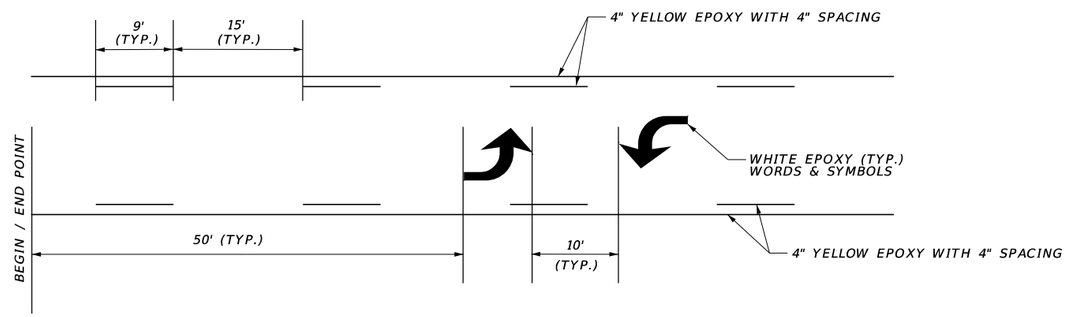
TYPICAL SCHOOL CROSSING PAVEMENT MARKINGS

NO SCALE



TYPICAL CURB MARKINGS

NO SCALE



TYPICAL TWO WAY LEFT TURN PAVEMENT MARKINGS

NO SCALE

ROBERT PECCIA & ASSOCIATES
CIVIL ENGINEERING | TRANSPORTATION | PLANNING | SURVEYING

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	9740000SIDETZ01.DGN	DESIGNED BY	TRISH BODLOVIC		SIGNING PLANS	WHITEHALL - EAST / STPP 69-1(44)0
2		1/25/2022	REVIEWED BY				
		9:35:56 AM trish	CHECKED BY	NATHAN STYREN		JEFFERSON COUNTY	UPN 9740000 / S10