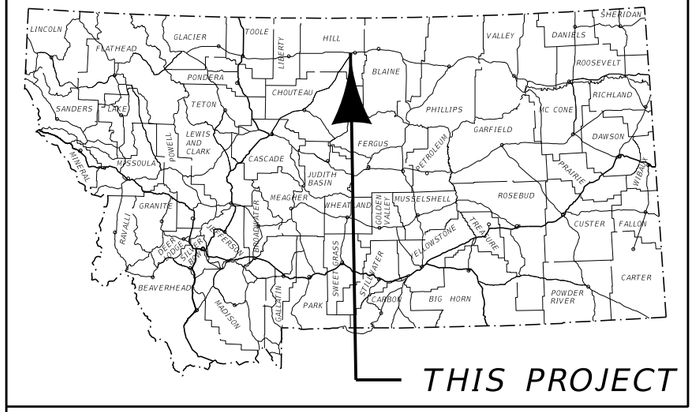
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MONTANA DEPARTMENT OF TRANSPORTATION

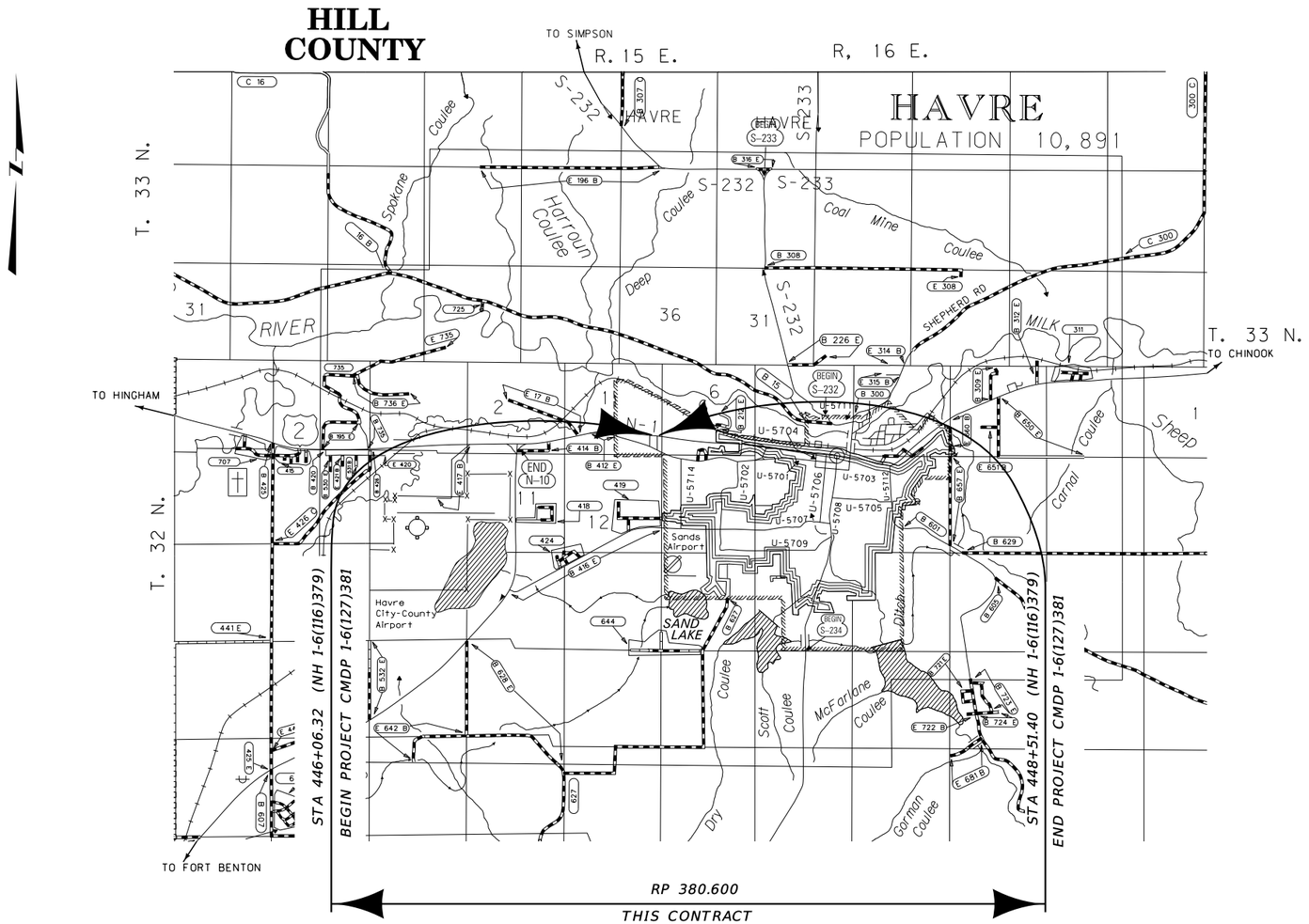
FEDERAL AID PROJECT CMDP 1-6(127)381
TRAFFIC SIGNALS & LIGHTING
US 2 & 19TH AVE WEST - HAVRE
HILL COUNTY

PROJECT DESIGN DATA		
PRESENT 2018	A.D.T. =	8,810
LETTING 2023	A.D.T. =	9,260
DESIGN 2043	A.D.T. =	11,300
	D.H.V. =	1,150
	TRUCKS =	6.8 %
	V. =	40 MPH
	18 KIP ESAL'S =	238 DAILY
	GROWTH RATE =	1.0 % ANNUALLY

LETTING DATE - _____

SURFACING SOURCES -
CONTRACTOR FURNISHED

LENGTH N/A MILES



MONTANA
DEPARTMENT OF TRANSPORTATION

MALCOLM "MACK" LONG
DIRECTOR OF TRANSPORTATION

APPROVED BY:

TRAFFIC AND SAFETY ENGINEER

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

MONTANA
GABE B. PRIEBE
13957PE
LICENSED PROFESSIONAL ENGINEER

9/14/2022
DATE

3	MONTANA Department of Transportation	C:\DGN\9570000sattl001.dgn	DESIGNED BY HANS HOELSTAD	4/8/2022	
2		7/13/2022	REVIEWED BY MIKE GROVER	4/8/2022	
		3:11:10 PM CPS - U3669	CHECKED BY JOY FLEMING	6/6/2022	UPN 9570000

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
ASPHALT CEMENT - GRADE S - 3/4" AGG.	= 5.0% OF PL.MIX BIT.SURF.
HYDRATED LIME	= 1.4% OF PL.MIX BIT.SURF.
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT TACK	= 0.05 GAL. PER SQ.YARD (UNDILUTED)

CENTERLINE

AS-BUIT, SURVEY AND CENTERLINE DATA ORIGINATE FROM FEDERAL AID PROJECT NH 1-6(116)379 (UPN 8970000).

CENTERLINE IS PROVIDED FOR STATIONING PURPOSES ONLY. DO NOT USE ON FUTURE PROJECTS.

MISCELLANEOUS

CONCRETE PATCHING OR GRINDING AS NECESSARY WILL BE PAID AS FORCE ACCOUNT IN THE MISCELLANEOUS WORK ITEM

MEDIAN WIDTHS MAY BE MODIFIED AT SOME LOCATIONS. MILL TO THE WIDTH SPECIFIED ON THE TYPICAL SECTIONS AND NOT THE EXISTING LANE LINES.

PUBLIC LAND SURVEY MONUMENTS

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

MISC. TO BE MOVED OR REMOVED BY OTHERS

ALL PRIVATELY OWNED SIGNS TO BE REMOVED BY OWNER.

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.

CENTERLINE ALIGNMENT COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
363+89.87	POT	1,569,678.100	1,908,166.700	CONNECTION TO PTW
365+90.00	BOP	1,569,683.730	1,908,366.750	BEGIN PROJECT
370+00.00	POT	1,569,695.270	1,908,776.580	INTERSECTION OF US 87
371+88.34	PC	1,569,700.570	1,908,964.850	
379+10.33	PI	1,569,720.880	1,909,686.550	
386+30.55	PT	1,569,828.300	1,910,400.510	
423+92.40	TS	1,570,387.980	1,914,120.490	
425+56.40	SC	1,570,411.600	1,914,282.770	
433+17.88	PI	1,570,525.670	1,915,035.670	
440+67.33	CS	1,570,416.770	1,915,789.340	
442+31.33	ST	1,570,394.260	1,915,951.780	
488+12.62	EOP	1,569,743.780	1,920,486.660	END PROJECT
488+59.25	POT	1,569,737.160	1,920,532.820	

GPK NAME: JOB970.GPK CHAIN NAME: DESIGN PROFILE NAME:

LINEAR AND LEVEL DATA

LENGTH OF ROADWAY IN HILL COUNTY		4 LANE URBAN	245.08 ft
TOTAL LENGTH OF	CMDP 1–6(127)381	4 LANE URBAN	245.08 ft

BEARING SOURCE

GRID — MONTANA COORDINATE SYSTEM NAD 83–2011

LEVEL DATUM SOURCE

NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID 12A AND HOLDING NGS BMS S514, U514, V514)

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CONTROL ABSTRACT

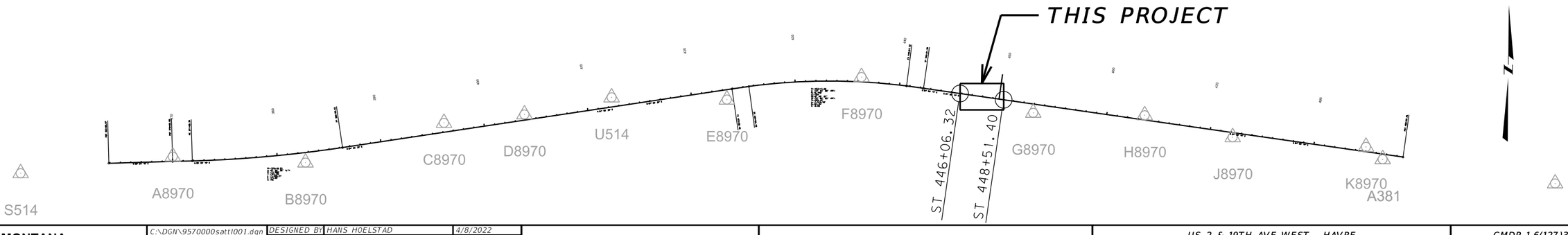
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
A381	1,569,716.486	1,920,338.491	2504.45	FOUND 2" MDT ALUMINUM CAP ON A 5/8" X 30" REBAR AT MILEPOST 381.215 ON THE SOUTHWEST CORNER OF THE INTERSECTION OF FIRST STREET AND NINTH AVE. WEST. CAP IS 12.5' SOUTH OF THE TOP BACK OF CURB OF FIRST STREET, AND 26.5' WEST OF THE CENTERLINE OF NINTH AVE. WEST.
A8970	1,569,742.175	1,908,777.188	2508.34	SET CONTROL POINT STAMPED "A8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 379.216 ON US2, 43' NORTH OF CL, 2' SOUTH OF WITNESS POST, 6' SOUTH OF EAST CHEVRON POST. 48.3319368 -109.4447988
B8970	1,569,684.636	1,910,046.211	2505.13	SET CONTROL POINT STAMPED "B8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 379.451 ON US2, 97.66' SOUTH OF CL, 2' NORTH OF WITNESS POST. 48.3318810 -109.4429172
C8970	1,570,063.865	1,911,369.321	2498.15	SET CONTROL POINT STAMPED "C8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 379.709 ON US2, 86' NORTH OF CL, 2' SOUTH OF WITNESS POST. 48.3322596 -109.4409540
D8970	1,570,144.711	1,912,137.759	2499.39	SET CONTROL POINT STAMPED "D8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 379.856 ON US2, 57.5 NORTH OF CL, 2' SOUTH OF WITNESS POST. 48.3323460 -109.4358092
E8970	1,570,286.322	1,914,072.037	2558.02	SET CONTROL POINT STAMPED "E8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 380.020 ON US2, 96' SOUTH OF CL, 2' NORTH OF WITNESS POST. 48.3324954 -109.4329346
F8970	1,570,501.545	1,915,358.668	2597.66	SET CONTROL POINT STAMPED "F8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 380.263 ON US2, 48.5' NORHT OF CL, 2' SOUTH OF WITNESS POST. 48.3327078 -109.4310272
G8970	1,570,160.226	1,916,999.619	2615.41	SET CONTROL POINT STAMPED "G8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 380.583 ON US2, 84' SOUTH OF CL, 2' NORTH OF WITNESS POST, 10.3' NORTH OF CHAIN LINK FENCE. 48.3323730 -109.4245774
H8970	1,570,136.526	1,918,064.150	2615.12	SET CONTROL POINT STAMPED "H8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 380.777 ON US2, 43.6' NORTH OF CL, 2' SOUTH OF WITNESS POST, 6.5' NORTH OF SIDEWALK. 48.3323520 -109.4230078
J8970	1,569,927.293	1,918,905.240	2581.90	SET CONTROL POINT STAMPED "J8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 380.940 ON US2, 43' SOUTH OF CL, 2' NORTH OF WITNESS POST, 6' SOUTH OF SIDEWALK. 48.3321474 -109.4217454
K8970	1,569,834.485	1,920,178.589	2510.92	SET CONTROL POINT STAMPED "K8970 2015" ON MDT 2" AC ON IRON PIN LOCATED AT MP 381.180 ON US2, 47.2' NORTH OF CL, 2' SOUTH OF WITNESS POST, 8' NORTH OF SIDEWALK. 48.3320532 -109.4158542
S514	1,569,582.730	1,907,324.147	2521.53	FOUND MARK IS LOCATED WEST OF HAVRE ALONG US HIGHWAY 2 AT MILEPOST 378.948, 69.7' SOUTH OF THE CENTERLINE OF THE HIGHWAY, 2.7' SOUTH OF A POWER POLE WITH GUY WIRE, MARK IS LOCATED AT NORTHWEST EDGE OF TILLEMAN MOTORS, 32' NORTH OF PARKING LOT. ACCESS TO DISK IS THROUGH A 4" SCREW PLUG. (SEE NGS DATA SHEET)
U514	1,570,307.044	1,912,970.279	2503.93	2.6 MILES WEST ALONG U.S. HIGHWAY 2 FROM THE JUNCTION OF STATE HIGHWAY 232 AND U.S. HIGHWAY 2 IN HAVRE, 116.4 FEET EAST OF THE CENTER OF A TRACK ROAD LEADING NORTH, 82.3 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY, 16.5 FEET WEST OF A FENCE CORNER, AND 1.5 FEET SOUTH OF A FENCE. NOTE=ACCESS TO THE DISK IS THROUGH A 4-INCH SCREW PLUG. THE MARK IS 2 FT E FROM A WITNESS POST. THE MARK IS 7 FT BELOW THE HIGHWAY.
V514	1,569,484.934	1,921,986.237	2485.18	0.9 MILE WEST ALONG U.S. HIGHWAY 2 FROM THE JUNCTION OF STATE HIGHWAY 234 (5TH AVENUE) AND U.S. HIGHWAY 2 IN HAVRE, SOUTH OF THE CENTERLINE OF HIGHWAY 2, 72.0 FEET WEST AND ACROSS THE STREET FROM A FIRE HYDRANT, 45.9 FEET WEST OF THE CENTERLINE OF A GRAVEL ROAD (5TH AVE W) LEADING SOUTH, 7.0 FEET FEET SOUTH OF THE BACK OF A CURB, SOUTHEAST OF TACO TIME, NORTHWEST OF WENDY S, AND 64.3 FEET EAST OF A LIGHT POLE. NOTE=ACCESS TO THE DISK IS THROUGH A 4-INCH SCREW PLUG, THE MARK IS 1.6 FT E FROM A WITNESS POST. THE MARK IS 1 FT ABOVE THE HIGHWAY.

CONTROL DIAGRAM

SCALE: N/A

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

DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE / CSF = GROUND DISTANCE).
THE CSF FOR THIS PROJECT IS 0.99963943.



2	MONTANA Department of Transportation	C:\DGN\9570000sattl001.dgn	DESIGNED BY	HANS HOELSTAD	4/8/2022		US 2 & 19TH AVE WEST - HAVRE / CMDP 1-6(127)381
1		7/13/2022	REVIEWED BY	MIKE GROVER	4/8/2022		
		3:11:16 PM CPS - U3665	CHECKED BY	JOY FLEMING	6/6/2022	HILL COUNTY	UPN 9570000 / 03

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SUMMARY

SURFACING

STATION		AGGREGATE	BITUMINOUS MATERIAL	REMARKS
		tons	sq. yards	
FROM	TO	COMMERCIAL MIX PC 64-28	#BITUMINOUS PAVEMENT REMOVAL	
446+06.32	447+39.19	22	261	NW CORNER
447+81.48	448+51.28	4	49	NE CORNER
446+77.63	447+49.40	6	20	SW CORNER
447+88.81	448+42.73	6	16	SE CORNER
TOTAL		38	~	

#FOR INFORMTION ONLY. INCLUDE IN COST OF NEW CURB, GUTTER & SIDEWALK

CURB

STATION		linear feet				REMARKS
		CONCRETE CURB AND GUTTER		REMOVE CURB AND GUTTER		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	
446+06.32	447+39.19	167.5		143.7		NW CORNER
447+81.48	448+51.28	97.5		94.8		NE CORNER
446+77.63	447+49.40		84.6		85.6	SW CORNER
447+88.81	448+42.73		67.2		67.2	SE CORNER
447+30.42	447+46.37			50.0		REFUGE ISLAND
SUBTOTAL		265.0	151.8	288.5	152.8	
TOTAL		416.8		441.3		

SIDEWALK

STATION		sq. yards						linear feet	REMARKS
		CONCRETE SIDEWALK		DETECTABLE WARNING DEVICES		REMOVE SIDEWALK		WIDTH	
		4"		TYPE 1					
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT		
446+06.32	447+39.19	93.0		2.2		79.6		5.0	NW CORNER
447+81.48	448+51.28	50.0		2.2		52.0		5.0	NE CORNER
446+77.63	447+49.40		47.0		2.2		47.0	5.0	SW CORNER
447+88.81	448+42.73		37.2		2.2		37.2	5.0	SE CORNER
SUBTOTAL		143.0	84.2	4.4	4.4	131.6	84.2	~	
TOTAL		227.2		8.8		215.8		~	

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	4		4
WORDS & SYMBOLS - WHITE PAINT	gallon	4		4
STRIPING - WHITE EPOXY	gallon		6	6
WORDS & SYMBOLS - WHITE EPOXY	gallon		5	5
CURBING - YELLOW EPOXY	gallon		8	8
				0

BASED ON 1 APPLICATION.

REVEGETATION

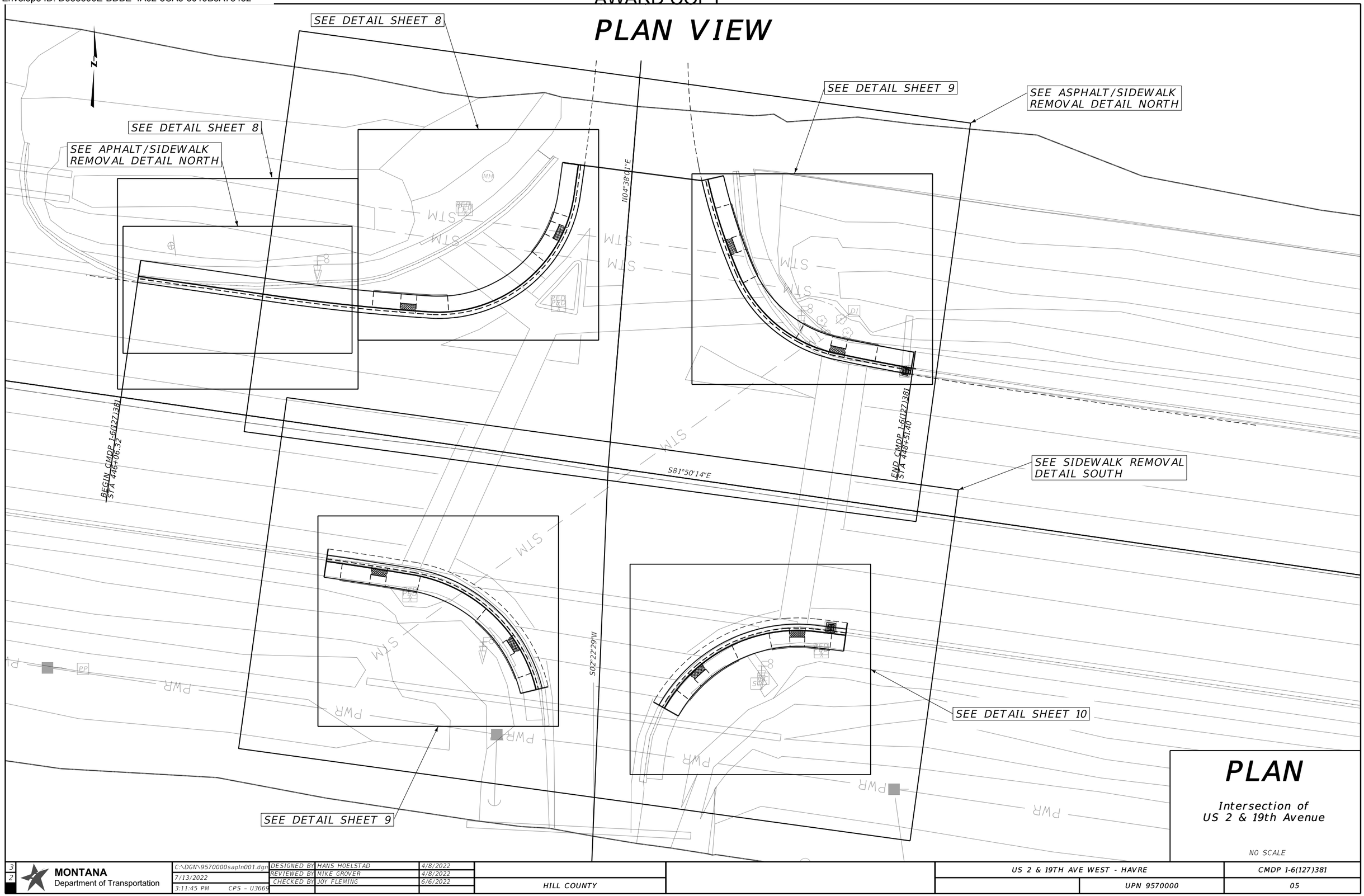
STATION		lump sum	cu. yards	acres			REMARKS
		REVEGE-TATION	TOPSOIL SALVAGING & PLACING	SEED	FERTILIZER	CONDITION SEEDBED	
FROM	TO						
446+07.22	448+51.21	1	36	0.10	0.10	0.10	
TOTAL		1	# 36	~	~	~	

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PLAN VIEW



PLAN

Intersection of
US 2 & 19th Avenue

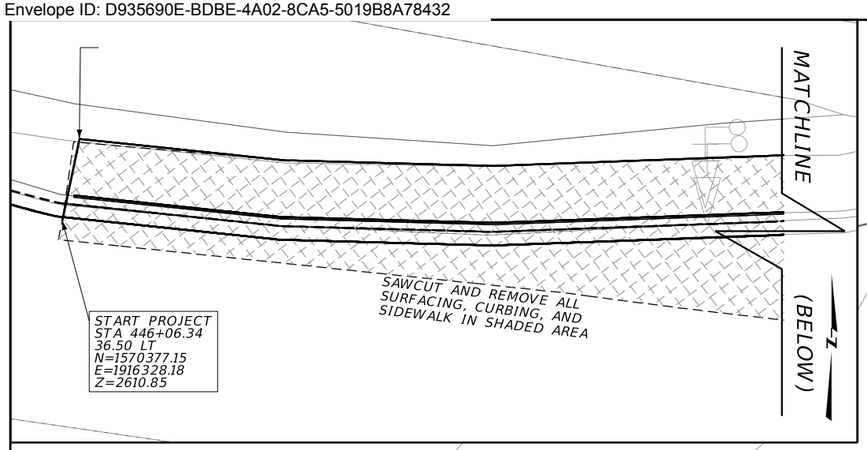
NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9570000sapln001.dgn	DESIGNED BY	HANS HOELSTAD	4/8/2022		US 2 & 19TH AVE WEST - HAVRE	CMDP 1-6(127)381
2		7/13/2022	REVIEWED BY	MIKE GROVER	4/8/2022			
		3:11:45 PM CPS - U3665	CHECKED BY	JOY FLEMING	6/6/2022	HILL COUNTY	UPN 9570000	05

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ASPHALT/SIDEWALK REMOVAL DETAIL NORTH



DETAIL

OBLITERATE/REMOVE AREA
INTERSECTION NORTH

NO SCALE

3 / 1	MONTANA Department of Transportation	C:\DGN\9570000sapln001.dgn	DESIGNED BY HANS HOELSTAD	4/8/2022	HILL COUNTY	US 2 & 19TH AVE WEST - HAVRE	CMDP 1-6(127)381
		7/13/2022	REVIEWED BY MIKE GROVER	4/8/2022		UPN 9570000	06
		3:11:49 PM CPS - U3669	CHECKED BY JOY FLEMING	6/6/2022			

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ASPHALT/SIDEWALK REMOVAL DETAIL SOUTH

STA 446+77.63
40.00 RT
N=1570291.30
E=1916387.88
Z=2611.37

SAWCUT AND REMOVE ALL SURFACING, CURBING, AND SIDEWALK IN SHADED AREA

STA 446+77.63
47.00 RT
N=1570284.37
E=1916386.89
Z=2611.84

STA 447+52.38
71.10 RT
N=1570249.90
E=1916457.46
Z=2611.58

STA 447+44.01
74.41 RT
N=1570247.81
E=1916448.70
Z=2611.66

EXISTING DROP INLET AND SLOTTED DRAIN, USE AS IS

STA 448+42.73
37.82 RT
N=1570270.02
E=1916551.62
Z=2612.79

SAWCUT AND REMOVE ALL SURFACING, CURBING, AND SIDEWALK IN SHADED AREA

STA 448+42.81
46.82 RT
N=1570261.10
E=1916550.42
Z=2613.33

STA 447+85.82
71.17 RT
N=1570245.09
E=1916490.55
Z=2611.91

STA 447+94.22
74.41 RT
N=1570240.69
E=1916498.41
Z=2611.88

DETAIL

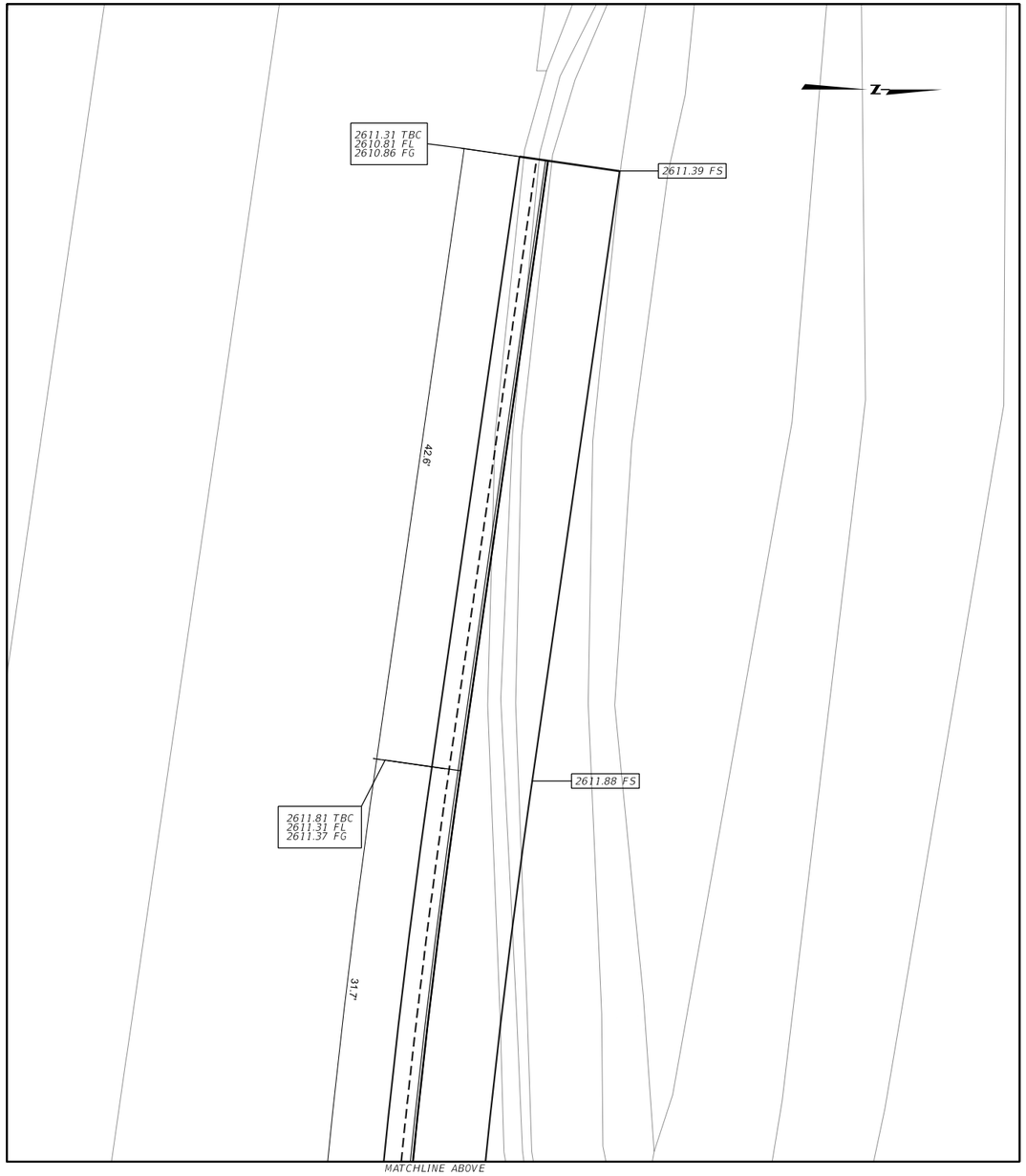
OBLITERATE/REMOVE AREA INTERSECTION SOUTH

NO SCALE

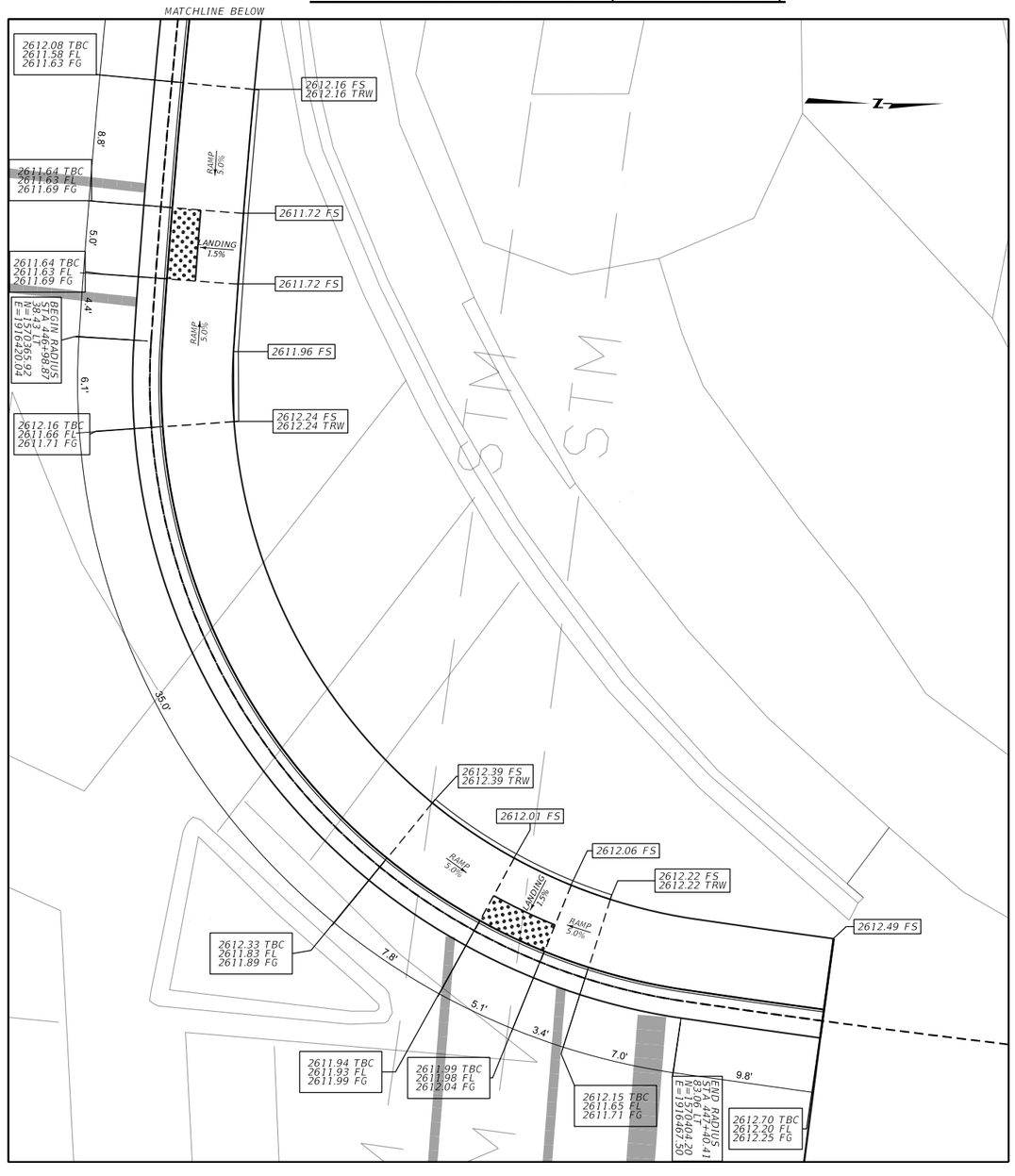
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INTERSECTION OF US 2 & 19TH AVENUE
NORTHWEST CORNER (WEST)



INTERSECTION OF US 2 & 19TH AVENUE
NORTHWEST CORNER (RAMP 1 & 2)



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

DETECTABLE WARNING DEVICES

NOTES:

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.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

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. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

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

US 2 & 19th AVE CURB RAMP DETAILS

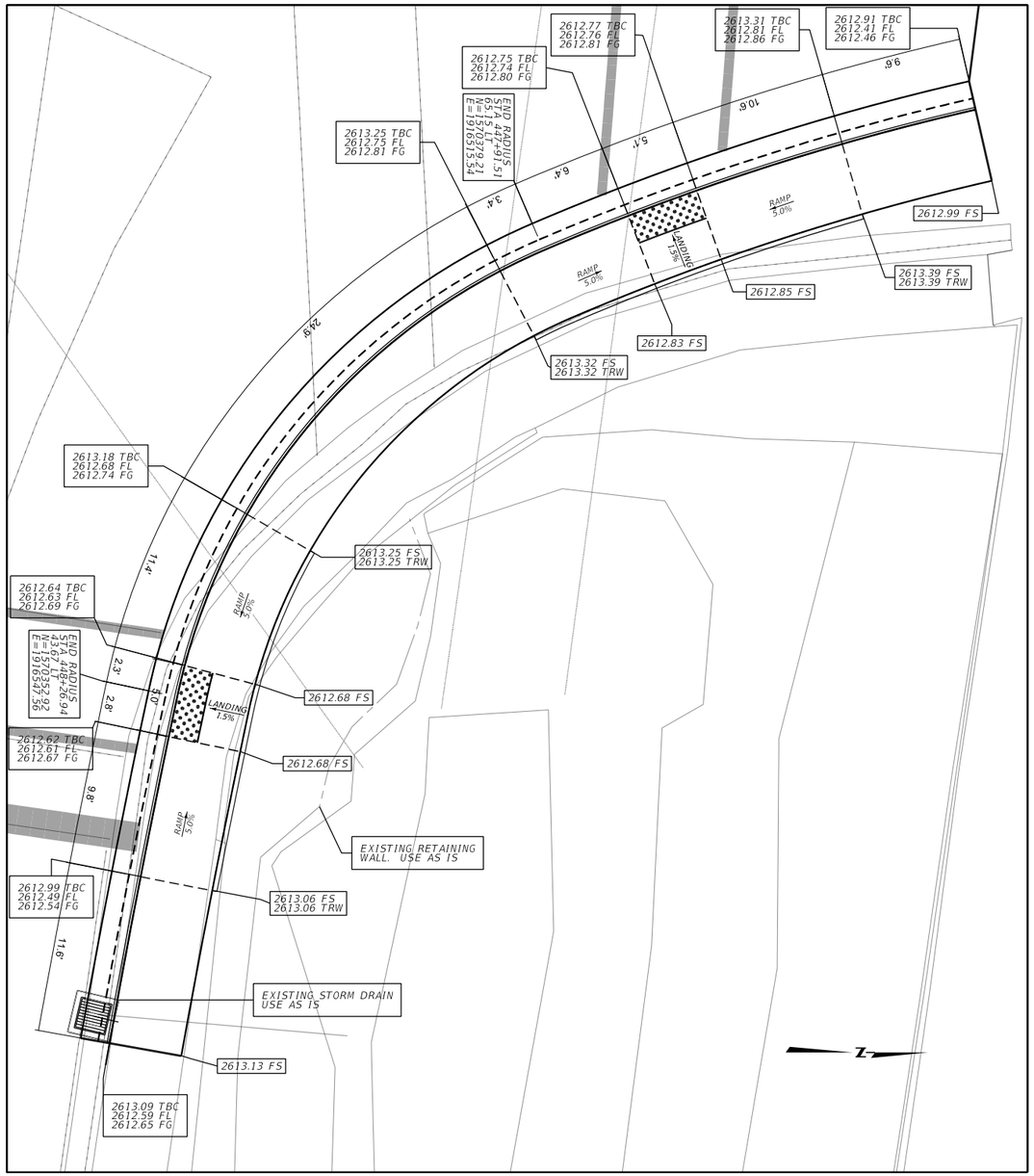
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3	MONTANA Department of Transportation	C:\DGN\9570000sadet001.dgn	DESIGNED BY	HANS HOELSTAD	4/8/2022		US 2 & 19TH AVE WEST - HAVRE	CMDP 1-6(127)381
2		7/13/2022	REVIEWED BY	MIKE GROVER	4/8/2022			
		3:12:05 PM CPS - U3669	CHECKED BY	JOY FLEMING	6/6/2022	HILL COUNTY	UPN 9570000	08

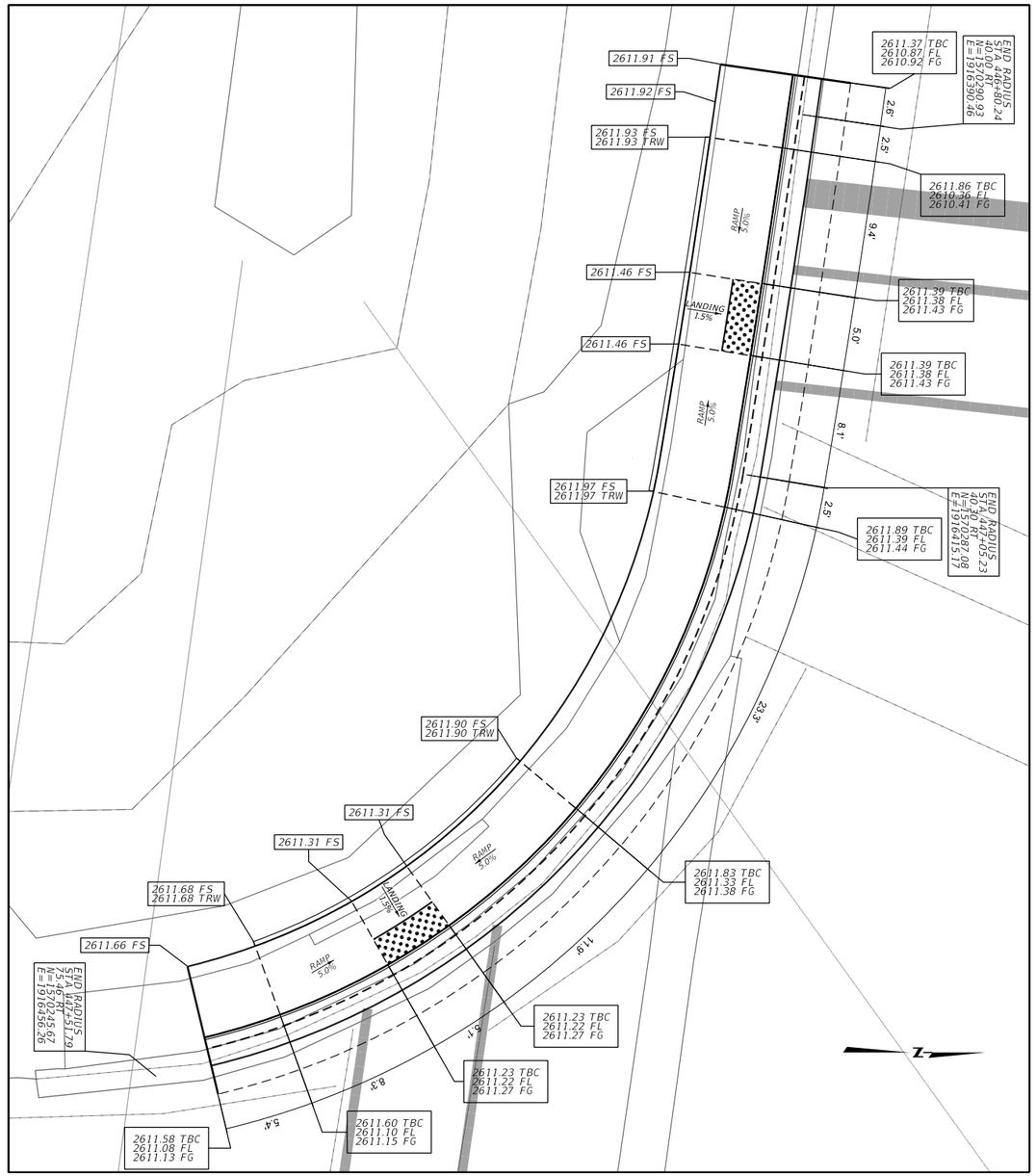
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INTERSECTION OF US 2 & 19TH AVENUE
NORTHEAST CORNER (RAMP 3 & 4)



IINTERSECTION OF US 2 & 19TH AVENUE
SOUTHWEST CORNER (RAMP 5 & 6)



LEGEND

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

DETECTABLE WARNING DEVICES

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

US 2 & 19th AVE CURB RAMP DETAILS

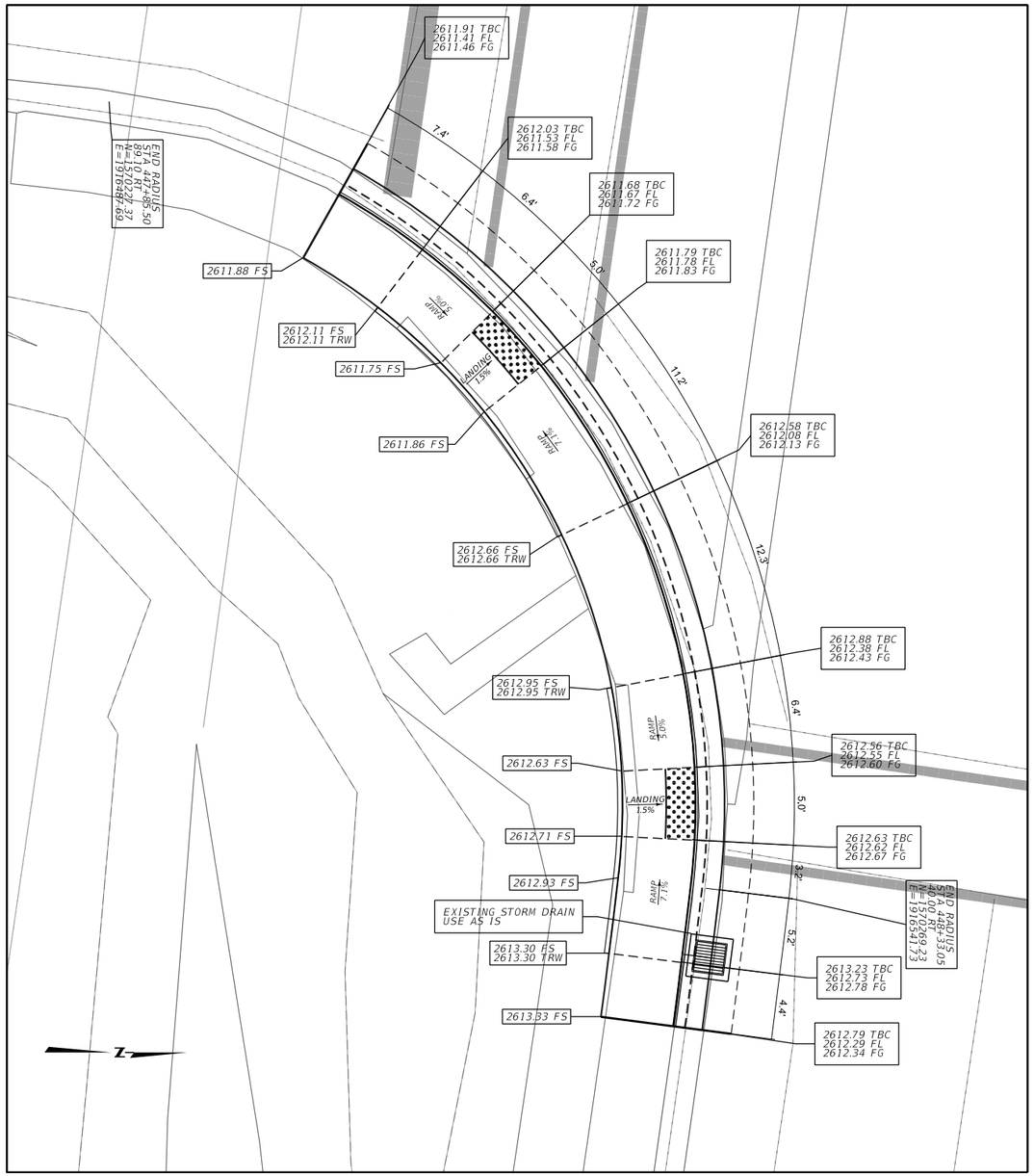
NO SCALE

3 1	MONTANA Department of Transportation	C:\DGN\9570000sadet001.dgn 7/13/2022 3:12:09 PM CPS - U3665	DESIGNED BY REVIEWED BY CHECKED BY	HANS HOELSTAD MIKE GROVER JOY FLEMING	4/8/2022 4/8/2022 6/6/2022	HILL COUNTY	US 2 & 19TH AVE WEST - HAVRE UPN 9570000	CMDP 1-6(127)381 09

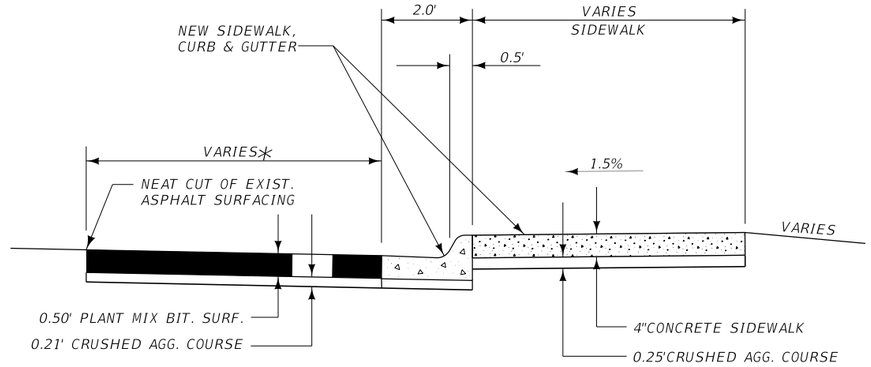
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INTERSECTION OF US 2 & 19TH AVENUE
SOUTHEAST CORNER (RAMP 7 & 8)



NEW CURB & GUTTER, SIDEWALK
AND SURFACING REPAIR DETAIL



*2' UNLESS OTHERWISE NOTED IN DETAILS

COST OF EXISTING BIT. PAVEMENT REMOVAL
INCLUDED IN COMMERCIAL MIX BID PRICE

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

DETECTABLE WARNING DEVICES

NOTES:

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

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

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. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

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

US 2 & 19th AVE CURB RAMP DETAILS

NO SCALE

2	MONTANA Department of Transportation	C:\DGN\9570000sadet001.dgn	DESIGNED BY	HANS HOELSTAD	4/8/2022		
1		7/13/2022	REVIEWED BY	MIKE GROVER	4/8/2022		
		3:12:13 PM CPS - U3665	CHECKED BY	JOY FLEMING	6/6/2022	HILL COUNTY	US 2 & 19TH AVE WEST - HAVRE / UPN 9570000 / CMDP 1-6(127)381 / 10

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV	77.6	SQ. FOOT
SIGNS-ALUM REFL SHEET XI	364.0	SQ. FOOT
SIGNS-ALUM SHEET INCR IV	295.1	SQ. FOOT
SIGNS-ALUM SHEET INCR XI	45.0	SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL U SIGN	80	POUNDS
POLES-TREATED WOOD 4 IN	376	LINEAR FT.
POLES-TREATED WOOD 5 IN	284	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	88.5	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	59	EACH
REMOVE SIGNS-GUIDE	12	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	1	EACH

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SIGN LOCATION AND SPECIFICATIONS

APPROXIMATE MILE POST		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"	TIMBER POLE (LINEAR FT.) 5" TOP DIA.	TIMBER POLE (LINEAR FT.) 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	REMOVE	RESET	REMARKS
379.136 LT		M1-4	24 x 24	XI	-	10-0		4" DIA POLE		12-2		5-0	3-0	4.0 (XI)			14							1					REPLACE M1-4 (2)
		M6-4	21 x 15	XI	-	■		■		■		■	■	2.2 (XI)															M6-4
		-	-	-	-																								
379.144 RT		R1-1	30 x 30	XI	XI	——	——	R.S.F.O.	——	——	——	5-0	——	5.2 (XI)										1					RSFO R1-1 STOP
379.161 RT		G2-379a	120 x 48	IV	IV	10-0	6-0	5" DIA POLE	X = 16-6 Y = 17-6			7-0	3-6		40.0 (IV)			18 18					X		1			BBR	REPLACE G2-379a HAVRE / GREAT FALLS
379.162 LT		D8-2aL	66 x 48	IV	IV	10-0	3-4	5" DIA POLE	X = 14-4 Y = 14-11			7-0	3-6		22.0 (IV)			16 16					X		1			BBR	REPLACE D8-2aL WEIGH STATION
379.186 RT		M1-4	24 x 24	XI	-	10-0		5" DIA POLE		12-2		5-4	3-6	4.0 (XI)				14					X	1				BBR	REPLACE M1-4 (2)
		M6-3	21 x 15	XI	-	■		■		■		■	■	2.2 (XI)															M6-3
		-	-	-	-																								
		M1-4	24 x 24	XI	-									4.0 (XI)															M1-4 (87)
		-	-	-	-																								
		M6-1R	21 x 15	XI	-									2.2 (XI)															M6-1R
		-	-	-	-																								
379.221 LT		W1-7a	72 x 42	XI	-	——	——	R.S.F.O.	——	——	——	7-0	——		21.0 (XI)													BBR FY	RSFO W1-7a
379.222 LT		M1-4	24 x 24	XI	-	10-0		4" DIA POLE		12-2		5-0	3-0	4.0 (XI)			14							1					REPLACE M1-4 (2)
		M6-4	21 x 15	XI	-	■		■		■		■	■	2.2 (XI)															M6-4
		-	-	-	-																								
379.224 RT		R1-1	30 x 30	XI	XI	——	——	R.S.F.O.	——	——	——	5-0	——	5.2 (XI)										1					RSFO R1-1 STOP
379.225 RT		W1-8	24 x 30	XI	-	——	——	R.S.F.O.	——	——	——	6-0	——	5.0 (XI)										1				FY	RSFO W1-8
379.227 RT		W1-8	24 x 30	XI	-	——	——	R.S.F.O.	——	——	——	6-0	——	5.0 (XI)										1				FY	RSFO W1-8
379.230 RT		W4-3	36 x 36	XI		2-0		2-1/4 & 2-1/2 SQ-TUBE		14-1		7-0	3-0	9.0 (XI)							88.5		★	1					REPLACE MOUNT BACK TO BACK
		R5-1	36 x 36	XI	XI	■		■		■		■	■	9.0 (XI)															NEW DO NOT ENTER
379.242 RT		R5-1	REMOVE																					1					REMOVE R5-1 DO NOT ENTER
		R5-1a	REMOVE																										R5-1a WRONG WAY
		-	-																										
379.243 LT		M1-4	24 x 24	XI	-	10-0		5" DIA POLE		13-2		6-4	3-6	4.0 (XI)				14					X	1				BBR	REPLACE M1-4 (87)
		M6-1L	21 x 15	XI	-	■		■		■		■	■	2.2 (XI)															M6-1L
		-	-	-	-																								
		M1-4	24 x 24	XI	-									4.0 (XI)															M1-4 (2)
		M6-3	21 x 15	XI	-									2.2 (XI)															M6-3
		-	-	-	-																								
379.272 LT		D8-2aL	66 x 48	IV	IV	——	——	R.S.F.O.	——	——	——	7-0	——		22.0 (IV)											1		BBR	RSFO D8-2aL WEIGH STATION
379.301 LT		G2-379b	120 x 48	IV	IV	——	——	R.S.F.O.	——	——	——	7-0	——		40.0 (IV)											1		BBR	RSFO G2-379b SHELBY / GREAT FALLS
379.315 RT		R2-1	36 x 48	XI	-	——	——	R.S.F.O.	——	——	——	7-0	——	12.0 (XI)										1					RSFO R2-1 (55) SPEED LIMIT 55
379.325 LT		I-5	24 x 24	IV	IV	10-0		4" DIA POLE		12-2		5-4	3-0	4.0 (IV)			14							1					REPLACE I-5
		I-5a	REMOVE	-	-																								REMOVE I-5a
		M6-3	21 x 15	IV	IV	■		■		■		■	■	2.2 (IV)															REPLACE M6-3 AIRPORT
		-	-	-	-																								
379.395 RT		BY OTHERS																											USE AS IS BY OTHERS 163rd Infantry Regiment HERITAGE HIGHWAY
379.432 LT		M2-1	21 x 15	XI	-	10-0		4" DIA POLE		12-2		5-0	3-0	2.2 (XI)			14							1					REPLACE M2-1 JCT
		M1-4	24 x 24	XI	-	■		■		■		■	■	4.0 (XI)															M1-4 (87)
		-	-	-	-																								
379.432 RT		M3-2	24 x 12	XI	-	10-0		4" DIA POLE		12-2		5-0	3-0	2.0 (XI)			14							1					REPLACE M3-2 EAST
		M1-4	24 x 24	XI	-	■		■		■		■	■	4.0 (XI)															M1-4 (2)
		-	-	-	-																								

SIGNING LOCATIONS ARE APPROXIMATE.

FIELD PROJECT MANAGER TO FIELD ADJUST AS NECESSARY

BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ'D.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

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

RSFO = REPLACE SIGN FACE ONLY

★ = TELESCOPED SQUARE TUBES (2 1/4" & 2 1/2") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

3	MONTANA Department of Transportation	C:\DGN\9570000sisum001.dgn	DESIGNED BY	HAYWARD	3/2021	SIGNING PLANS	US 2 & 19th AVE WEST - HAVRE
2		7/11/2022	REVIEWED BY	ERIK MATYE	3/2022		CMDP 1-6 (127) 381
1		7:18:33 AM CPS - U404	CHECKED BY	NICK THOLT	3/2022	HILL COUNTY	UPN 9570000 S2

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SIGN LOCATION AND SPECIFICATIONS

APPROXIMATE MILE POST		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
379.519 RT		W3-5	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0 (XI)			16						1					REPLACE W3-5 S.L. 45
379.520 LT		D8-2a	108 x 36	IV	IV			R.S.F.O.				8-0			27.0 (IV)									1			BBR	RSFO D8-2a WEIGH STATION NEXT 2 LEFTS
		D8-2p -	108x24	IV	IV			R.S.F.O.							18.0 (IV) 2.8 (IV)													REMOVE D8-2P ~~CLOSED~~ ~~OPEN~~
379.597 RT		BY OTHERS	USE AS IS																									USE AS IS BY OTHERS THE OLD FORTS TRAIL
379.626 RT		R2-1	30 x 36	XI	-	10-0		4" DIA POLE		12-4		5-0	3-0	7.5 (XI)			14						1					REPLACE R2-1 (45) SPEED LIMIT 45
379.626 LT		R2-1	30 x 36	XI	-	10-0		4" DIA POLE		12-4		5-0	3-0	7.5 (XI)			14						1					REPLACE R2-1 (55) SPEED LIMIT 55
379.675 RT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		11-6		5-0	3-0	5.2 (XI)			12						1					REPLACE R1-1 STOP
379.734 RT		R5-1	36 x 36	XI	XI	2-0		4" DIA POLE		13-7		5-0	3-0	9.0 (XI)			14						1					REPLACE R5-1 DO NOT ENTER Mount On Raised Island Facing WB Traffic
379.728 RT		R3-2	36 x 36	XI	-	10-0		4" DIA POLE		13-0		5-0	3-0	9.0 (XI)			14						1					REPLACE R3-2
		R3-3 -	REMOVE -																									REMOVE R3-3 NO TURNS
379.728 LT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		11-6		5-0	3-0	5.2 (XI)			12											NEW R1-1 STOP
379.738 RT		R1-1	USE AS IS																									USE AS IS BY OTHERS STOP
379.757 LT		R3-2	36 x 36	XI		10-0		5" DIA POLE		13-2		5-0	3-6	9.0 (XI)				14				X						NEW INSTALLATION No Left Turn R3-2
379.722 LT		W4-2R	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0 (XI)			16						1					REPLACE W4-2R
379.799 LT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		11-6		5-0	3-0	5.2 (XI)			14						1					REPLACE R1-1 STOP
379.762 LT		W9-1R	36 x 36	XI	-	10-0		4" DIA POLE		14-3		5-0	3-0	9.0 (XI)			16						1					REPLACE W9-1R RIGHT LANE ENDS
379.865 RT		R1-1	30 x 30	XI	XI	2-0		4" DIA POLE		11-6		5-0	3-0	5.2 (XI)			14						1					REPLACE R1-1 STOP BEHIND SIDEWALK
379.894 LT		R13-1b	72 x 48	XI				R.S.F.O.				7-0			24.0 (XI)									1			BBR	RSFO R13-1b ALL TRUCKS COMMERCIAL VEHICLES STOP AHEAD
380.000 RT		D10-3	10 x 36	IV	IV	2-0		2 LBS STL U		10-0		4-0	3-0	2.5 (IV)								20		1				REPLACE D10-3 (380) 380 BEHIND SIDEWALK
380.000 LT		D10-3	10 x 36	IV	IV	2-0		2 LBS STL U		10-0		4-0	3-0	2.5 (IV)								20		1				REPLACE D10-3 (380) 380
380.009 RT		R3-9J	36 x 54	XI	-	10-0		5" DIA POLE		16-6		7-0	3-6	13.5 (XI)				18					X	1				REPLACE R3-9J (BEGIN) RIGHT LANE ENDS BEHIND SIDEWALK
380.009 LT		R3-9K	36 x 54	XI	-	10-0		5" DIA POLE		14-6		5-0	3-6	13.5 (XI)				16					X	1				REPLACE R3-9K (END) END RIGHT LANE
380.108 RT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		11-6		5-0	3-0	5.2 (XI)			12						1					REPLACE R1-1 STOP BEHIND SIDEWALK
380.009 RT		R3-9B	36 x 48	XI	-	10-0		5" DIA POLE		16-2		7-0	3-6	12.0 (XI)				16					X	1				REPLACE R3-9B (CENTER) CENTER LANE ENDS BEHIND SIDEWALK
380.257 RT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		11-6		7-0	3-0	5.2 (XI)			12						1					REPLACE R1-1 STOP BEHIND SIDEWALK
380.257 RT		D7-3L	48 x 36 x 30	IV	IV	10-0		5" DIA POLE		13-6		7-0	3-6	9.8 (IV)				14					X	1			BBR	REPLACE D7-3L HISTORIC POINT 1/2 MI BEHIND SIDEWALK
380.330 LT		D8-1	66 x 48	IV	IV			R.S.F.O.				7-0			22.0 (IV)										1			RSFO D8-1 WEIGH STATION 1 MILE
380.337 LT		R3-9B	36 x 48	XI	-	10-0		5" DIA POLE		14-2		5-0	3-6	12.0 (XI)				16					X	1				REPLACE R3-9B (CENTER) CENTER LANE ENDS
380.337 RT		R3-9B	36 x 48	XI	-	10-0		5" DIA POLE		16-2		7-0	3-6	12.0 (XI)				18					X	1				REPLACE R3-9B (CENTER) CENTER LANE ENDS BEHIND SIDEWALK
380.474 RT		R2-1	30 x 36	XI	-	10-0		5" DIA POLE		15-2		7-0	3-6	7.5 (XI)				16					X	1				REPLACE R2-1 (45) SPEED LIMIT 45 BEHIND SIDEWALK
380.474 LT		R2-1	30 x 36	XI	-	10-0		5" DIA POLE		13-2		5-0	3-6	7.5 (XI)				14					X	1				REPLACE R2-1 (45) SPEED LIMIT 45

SIGNING LOCATIONS ARE APPROXIMATE.

FIELD PROJECT MANAGER TO FIELD ADJUST AS NECESSARY

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RSFO = REPLACE SIGN FACE ONLY

3	MONTANA Department of Transportation	C:\DGN\9570000sisum001.dgn	DESIGNED BY	HAYWARD	3/2021	SIGNING PLANS
2		7/11/2022	REVIEWED BY	ERIK MATYE	3/2022	HILL COUNTY
1		7:18:37 AM CPS - U4044	CHECKED BY	NICK THOLT	3/2022	US 2 & 19th AVE WEST - HAVRE / UPN 9570000 / CMDP 1-6 (127) 381 / S3

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SIGN LOCATION AND SPECIFICATIONS

APPROXIMATE REF. POST		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
380.490 LT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		12-3		5-0	3-0	5.2 (XI)			14						1					REPLACE R1-1 STOP
380.544 RT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		14-0		7-0	3-0	5.2 (XI)			14						1					REPLACE R1-1 STOP BEHIND SIDEWALK
380.529 RT		G2-380a	78 x 36	IV	IV	10-0	3-10	4" DIA POLE		X = 13-0 Y = 13-0		7-0	3-0		19.5 (IV)		14 14							1		BBR		REPLACE G2-380a MONTANA HIGHWAY PATROL BEHIND SIDEWALK
380.607 RT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		13-0		7-0	3-0	5.2 (XI)			14						1					REPLACE R1-1 STOP BEHIND SIDEWALK
380.623 RT		D9-99	24 x 24	IV	IV			R.S.F.O.				7-3		4.0 (IV)									1					Mount on Sq. Tube RSFO D9-99 M BEHIND SIDEWALK
		D9-99b -	REMOVE -																									REMOVE D9-99b MUSEUM
		D9-99c -	24 x 6 -	IV -	IV -			R.S.F.O.						1.0 (IV)														RSFO D9-99L
380.628 LT		R3-9b	REMOVE -																				1					REMOVE R3-9b (CENTER) BEHIND SIDEWALK
380.637 LT		OH-D3	72 x 12	IV	XI			MAST ARM		R.S.F.O.				6.0 (IV)									1					RSFO OHD-3 19TH AVE W
380.651 RT		OH-D3	54 x 12	IV	XI			MAST ARM		R.S.F.O.				4.5 (IV)									1					RSFO OHD-3 US HWY 2
380.664 LT		OH-D3	54 x 12	IV	XI			MAST ARM		R.S.F.O.				4.5 (IV)									1					RSFO OHD-3 US HWY 2
380.665 RT		OH-D3	72 x 12	IV	XI			MAST ARM		R.S.F.O.				6.0 (IV)									1					RSFO OHD-3 19TH AVE W
380.704 LT		R3-7R	36 x 36	XI	-	10-0		4" DIA POLE		13-0		7-0	3-0	9.0 (XI)			14						1					REPLACE R3-7 BEHIND SIDEWALK
380.709 LT		D9-99	24 x 24	IV	IV			R.S.F.O.				7-3		4.0 (IV)									1					Mount on Light Pole RSFO D9-99 M BEHIND SIDEWALK MOUNTED ON LUMINAIRE POLE
		D9-99b -	REMOVE -																									REMOVE D9-99b MUSEUM
		D9-99c -	24 x 6 -	IV -	IV -			R.S.F.O.						1.0 (IV)														RSFO D9-99R
380.749 LT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		13-0		7-0	3-0	5.2 (XI)			14						1					REPLACE R1-1 STOP BEHIND SIDEWALK
380.753 RT		G2-380b	102 x 36	IV	IV			R.S.F.O.				7-0			25.5 (IV)									1				RSFO G2-380b MONTANA DEPARTMENT OF TRANSPORTATION BEHIND SIDEWALK
380.773 LT		G2-380c	78 x 36	IV	IV	10-0	3-10	4" DIA POLE		X = 13-0 Y = 13-0		7-0	3-0		19.5 (IV)									1					REPLACE G2-380c MONTANA HIGHWAY PATROL BEHIND SIDEWALK
380.783 LT		R1-1	30 x 30	XI	XI	6-0		4" DIA POLE		13-0		7-0	3-0	5.2 (XI)			14						1					REPLACE R1-1 STOP BEHIND SIDEWALK
380.628 LT		R3-9b	36 x 48	XI	-	10-0		5" DIA POLE		14-6		7-0	3-6	12.0 (XI)				16				X	1				BBR	REPLACE R3-9b (CENTER) BEHIND SIDEWALK
380.628 RT		R3-9b	36 x 48	XI	-	10-0		5" DIA POLE		14-6		7-0	3-6	12.0 (XI)				16				X	1				BBR	REPLACE R3-9b (CENTER) BEHIND SIDEWALK
380.753 LT		G2-380d	102 x 36	IV	IV			R.S.F.O.				7-0			25.5 (IV)									1				RSFO G2-380d MONTANA DEPARTMENT OF TRANSPORTATION BEHIND SIDEWALK
381.000 RT		D10-3	10 x 36	IV	IV	10-0		2 LBS STL U		10-0		4-0	3-0	2.5 (IV)								20	1					REPLACE D10-3 (381) BEHIND SIDEWALK
381.000 LT		D10-3	10 x 36	IV	IV	10-0		2 LBS STL U		10-0		4-0	3-0	2.5 (IV)								20	1					REPLACE D10-3 (381) BEHIND SIDEWALK
381.053 LT		D7-3R	48 x 36 x 30	IV	IV	10-0		5" DIA POLE		13-6		7-0	3-6	9.8 (IV)				14				X	1				BBR	REPLACE D7-3R HISTORIC POINT 1/2 MI BEHIND SIDEWALK
381.063 RT		BY OTHERS	USE AS IS																									USE AS IS BY OTHERS USE OF HAND-HELD PHONES PROHIBITED WHILE DRIVING CITY OF HAVRE BEHIND SIDEWALK
381.083 LT		M1-11	24 x 30	IV	IV	10-0		4" DIA POLE		12-10		7-0	3-0	5.0 (IV)			14						1					REPLACE M1-11 BEHIND SIDEWALK
381.165 RT		BY OTHERS	USE AS IS																									USE AS IS BY OTHERS HAVRE MONTANA WELCOME BEHIND SIDEWALK
381.184 LT		BY OTHERS	USE AS IS																									USE AS IS BY OTHERS WELCOME TO HILL COUNTY BEHIND SIDEWALK

SIGNING LOCATIONS ARE APPROXIMATE.

FIELD PROJECT MANAGER TO FIELD ADJUST AS NECESSARY

BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ'D.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

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

RSFO = REPLACE SIGN FACE ONLY

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SIGN LOCATION AND SPECIFICATIONS

APPROXIMATE REF. POST	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
381.197 RT		M3-2	24 x 12	XI	-			R.S.F.O.				7-0		2.0 (XI)										1					RSFO M3-2 EAST BEHIND SIDEWALK
		M1-4	24 x 24	XI	-			R.S.F.O.						4.0 (XI)															M1-4 2
381.184 RT		BY OTHERS	USE AS IS																										USE AS IS BY OTHERS WELCOME TO HAVRE BEHIND SIDEWALK
381.197 LT		M3-4	24 x 12	XI	-			R.S.F.O.				7-0		2.0 (XI)										1					RSFO M3-4 WEST BEHIND SIDEWALK
		M1-4	24 x 24	XI	-			R.S.F.O.						4.0 (XI)															M1-4 2
379.675 LT		D-3	42 x 10	IV	IV			R.S.F.O.				5-0		2.9 (IV)										1					RSFO (2) D-3 NINTH AVE NW BEHIND SIDEWALK
		D-3	42 x 10	IV	IV									2.9 (IV)															
		R1-1	36 x 36	XI	XI									7.5 (XI)															R1-1 STOP
381.213 RT		N6-1	54 x 30	IV	IV			R.S.F.O.				7-0			11.3 (IV)										1				RSFO N6-1 ENTERING HAVRE BEHIND SIDEWALK
381.241 RT		R2-1	30 x 36	XI	-			R.S.F.O.				7-0		7.5 (XI)										1					RSFO R2-1 (35) SPEED LIMIT 35 BEHIND SIDEWALK
TOTALS														77.6 (IV) 364.0 (XI)	295.1 (IV) 45.0 (XI)		376	284			88.5		80	59	12			

SIGNING LOCATIONS ARE APPROXIMATE.

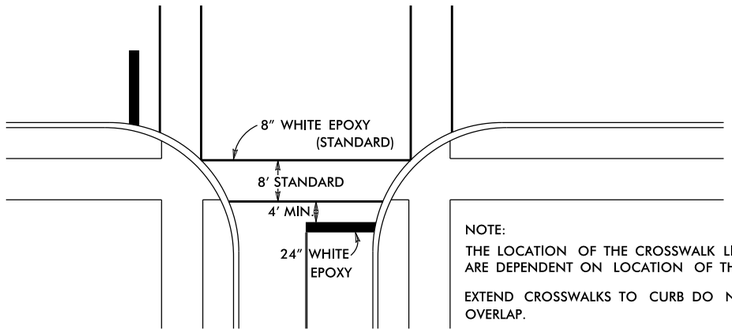
FIELD PROJECT MANAGER TO FIELD ADJUST AS NECESSARY

BBR = BACKBRACING REQUIRED:
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- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

RSFO = REPLACE SIGN FACE ONLY



NOTE:
THE LOCATION OF THE CROSSWALK LINES ARE DEPENDENT ON LOCATION OF THE SIDEWALKS.

EXTEND CROSSWALKS TO CURB DO NOT OVERLAP.

TYPICAL PAVEMENT MARKINGS FOR PEDESTRIAN CROSSINGS

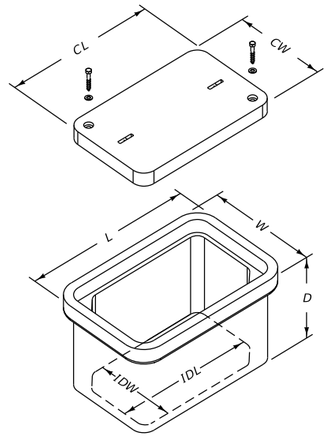
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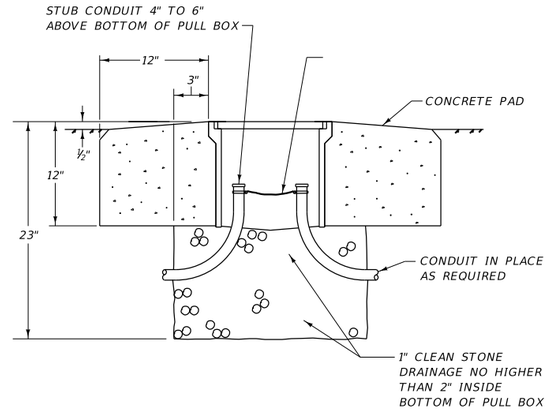
ELECTRICAL QUANTITY SUMMARY

	ITEM NO.	MATERIAL	UNIT	TOTAL
	616 343 920	CONDUIT - PLASTIC 2 IN	LNFT	250
	616 343 924	CONDUIT - PLASTIC 2 1/2 IN	LNFT	35
	616 343 930	CONDUIT - PLASTIC 3 IN	LNFT	435
	616 783 007	PULL BOX-COMPOSITE TYPE 2	EACH	4
	616 783 008	PULL BOX-COMPOSITE TYPE 3	EACH	1
	617 000 000	FOUNDATION - CONCRETE	CUYD	3
	617 033 214	CABLE - COPPER 3AWG14 - 600V	LNFT	144
	617 033 414	CABLE - COPPER 7AWG14 - 600V	LNFT	1650
	617 033 514	CABLE - COPPER 9AWG14 - 600V	LNFT	420
	617 123 106	CONDUCTOR - COPPER AWG6-600V	LNFT	800
	617 123 110	CONDUCTOR - COPPER AWG10-600V	LNFT	285
	617 233 100	CONTROLLER-CAB PED-MODIFY	EACH	1
	617 333 100	SERV ASSEMBLY	EACH	1
	617 503 130	SIG - TRAF 3 COL - 1 WAY 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	8
	617 763 500	DETECTOR-RADAR/PRESENCE	EACH	4
	617 781 000	REMOVE AND SALVAGE MISC ELECTRICAL	LS	1
	617 903 255	PUSH BUTTON - PEDESTRIAN - TACTILE	EACH	8

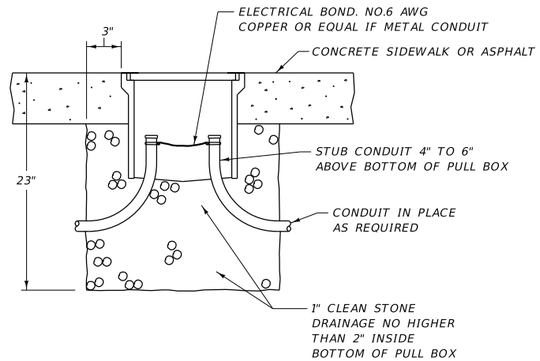
* - INDICATES STATE FURNISHED MATERIAL



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

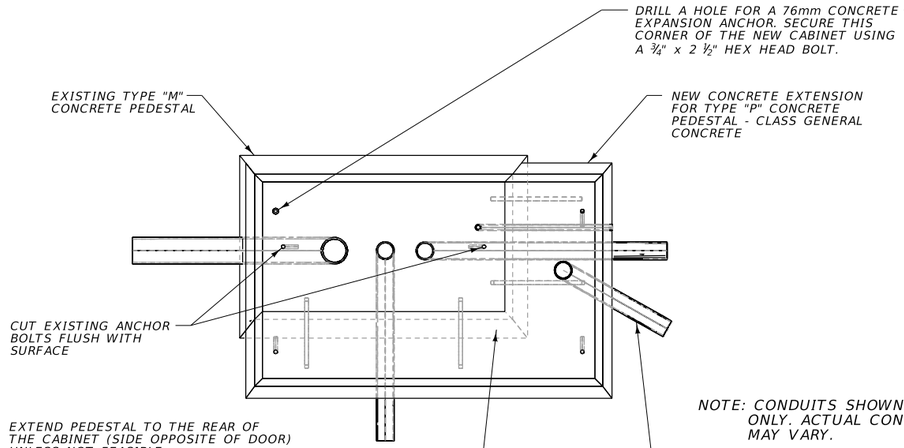
TYPE 1,2 & 3

NO SCALE

REVISED: 15-APR-2014

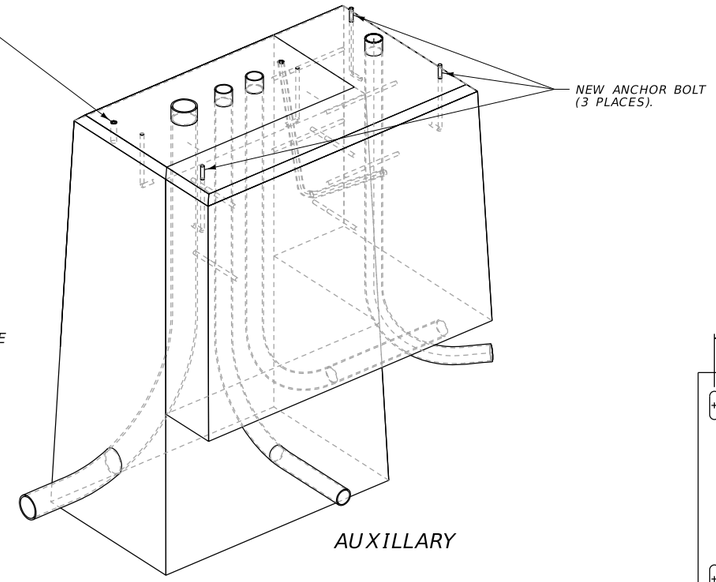
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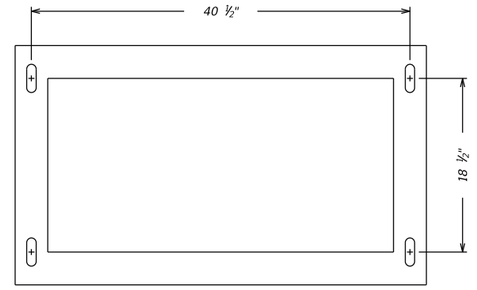


TOP

NOTE: CONDUITS SHOWN ARE FOR EXAMPLE ONLY. ACTUAL CONDUIT LOCATIONS MAY VARY.

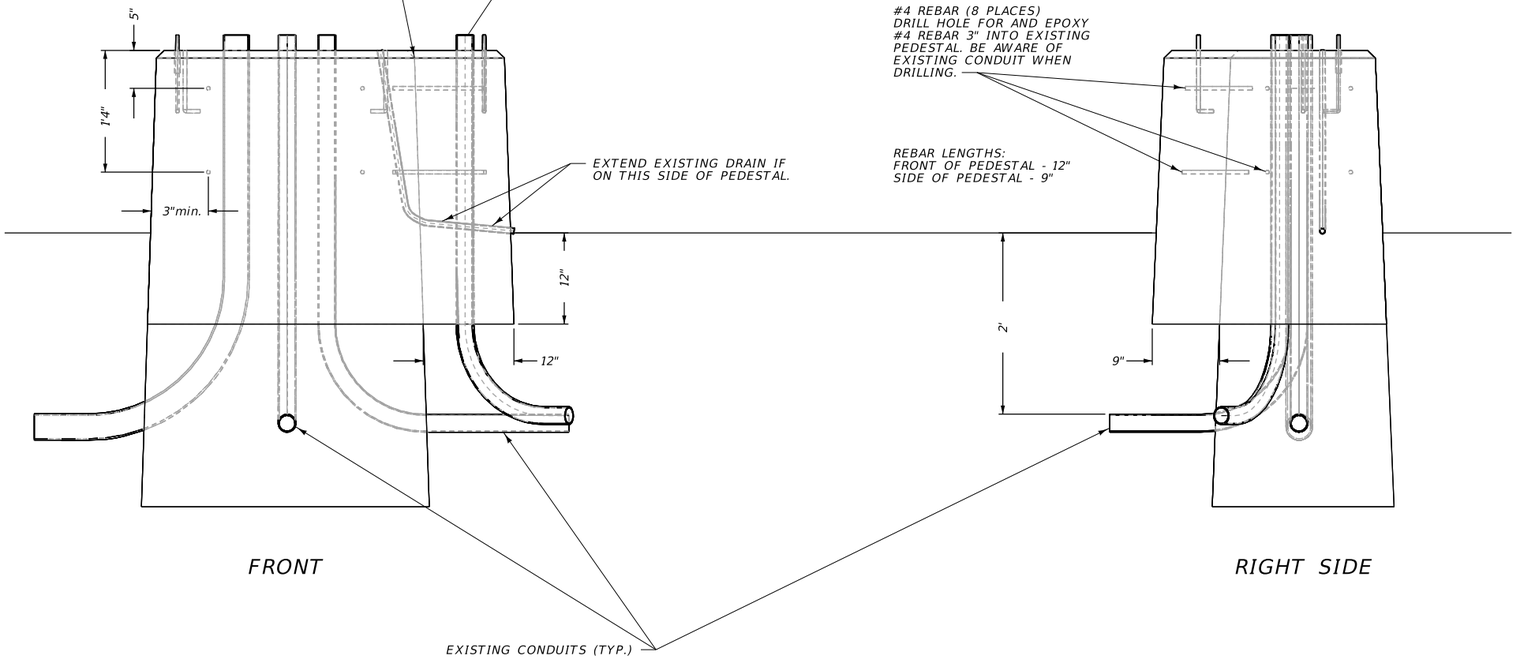


AUXILLARY



ANCHOR BOLT PATTERN FOR TYPE "P" CABINET

(VERIFY BEFORE PLACING ANCHOR BOLTS)



FRONT

RIGHT SIDE

TYPE "M" TO TYPE "P"
CONTROLLER CABINET PEDESTAL
CONVERSION

NO SCALE

MTOP

REVISED 22-FEB-2000

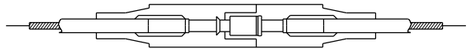
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9570000eldet001.dgn 6/7/2022 10:53:22 AM CPS - U2948	DESIGNED BY REVIEWED BY CHECKED BY	DAN CUNNINGHAM Mike Grover	3/2021 3/2022	ELECTRICAL PLANS HILL COUNTY	US 2 & 19TH AVE WEST - HAVRE	CMDP 1-6(127)381 UPN 9570000 E2

DocuSign Envelope ID: D935690E-BDBE-4A02-8CA5-5019B8A78432

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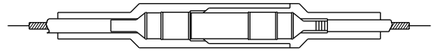
WATERTIGHT CONNECTORS

TYPES 1, 6, 11 & 16



NON-FUSED BREAKAWAY

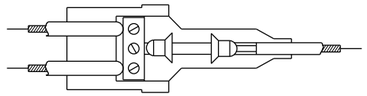
TYPES 2, 7, 12 & 17



FUSED BREAKAWAY

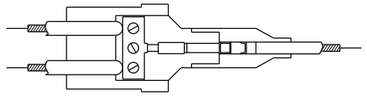
IDENTITY NO.	DESCRIPTIVE SYMBOL & WIRE SIZES
1	8 — 8
2	8 — 10
3	8, 8 — 10
4	8, 8 — 8
5	8, 8 — 8
6	6 — 6
7	6 — 10
8	6, 6 — 10
9	6, 6 — 6
10	6, 6 — 6
11	4 — 4
12	4 — 10
13	4, 4 — 10
14	4, 4 — 4
15	4, 4 — 4
16	10 — 10
17	10 — 10
18	10, 10 — 10
19	10, 10 — 10
20	10, 10 — 10
21	VARIES — VARIES, VARIES

TYPES 3, 8, 13 & 18



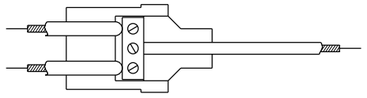
FUSED BREAKAWAY

TYPES 4, 9, 14 & 19



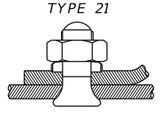
NON-FUSED BREAKAWAY

TYPES 5, 10, 15 & 20



NON-FUSED NON-BREAKAWAY

TYPE 21



COPPER SPLIT BOLT - MAKE WATERTIGHT USING SELF ADHERING MASTIC

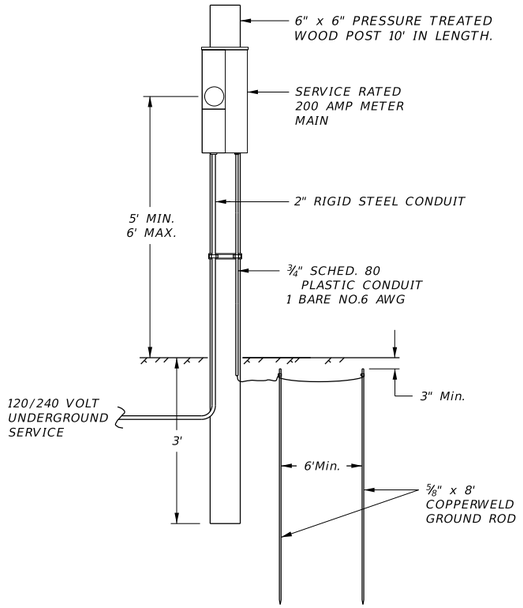
PROVIDE A PLUG AND RECEPTACLE HOUSED IN WATER-RESISTANT, SYNTHETIC RUBBER CAPABLE OF BURIAL IN THE GROUND OR INSTALLATION IN SUNLIGHT. THE HOUSING, CONSISTING OF 2 SECTIONS, PROVIDES A WATERTIGHT SEAL AROUND THE CABLE AND A WATERTIGHT SEAL BETWEEN THE TWO SECTIONS AT THE POINT OF DISCONNECTION. SUPPLY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

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

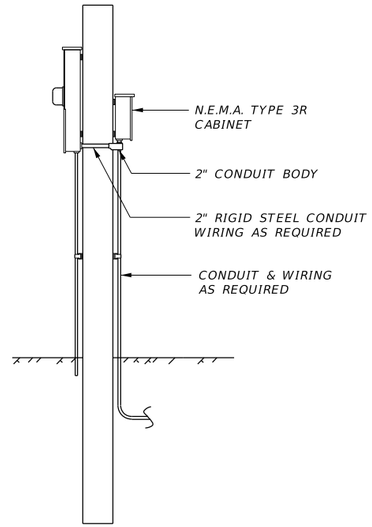
PROVIDE FUSED CONNECTOR KITS CONTAINING A PAIR OF SPRING LOADED 90% CONDUCTIVITY CONTACTS FOR GRIPPING A STANDARD MIDGET FERRULE TYPE FUSE. THE CONTACTS MUST BE FULLY ANNEALED AND ADAPTED TO BE CRIMPED TO THE CABLE.

WATERTIGHT CONNECTORS

NO SCALE



FRONT



SIDE

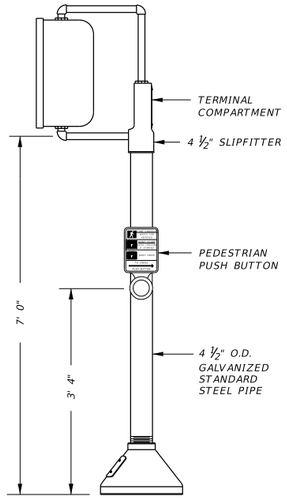
UNDERGROUND SERVICE ASSEMBLY DETAIL

UNDERGROUND SERVICE ASSEMBLY DETAIL

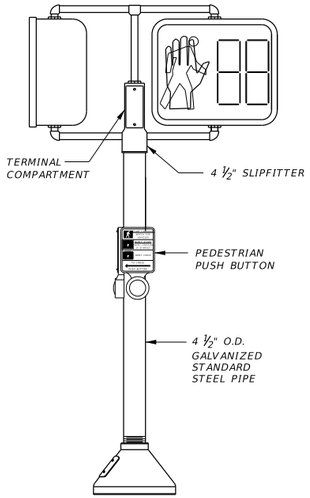
NO SCALE

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9570000eldet001.dgn	DESIGNED BY	DAN CUNNINGHAM	3/2021	ELECTRICAL PLANS	US 2 & 19TH AVE WEST - HAVRE	CMDP 1-6(127)381
1		6/7/2022	REVIEWED BY	Mike Grover	3/2022			
		10:53:26 AM CPS - U2948	CHECKED BY			HILL COUNTY	UPN 9570000	E3

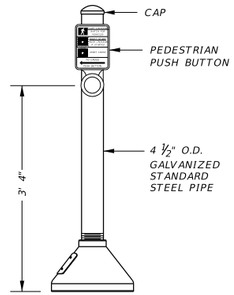
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TYPE I-I00



TYPE I-I20

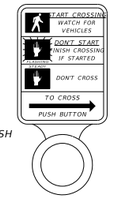


TYPE I-80

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

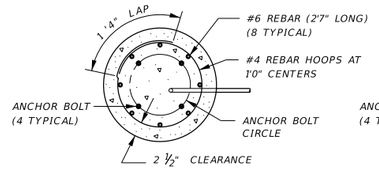
5" x 7¾" ALUMINUM SIGN, BLACK LETTERS ON WHITE BACKGROUND.

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

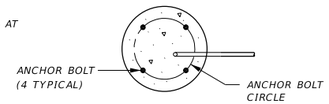


PEDESTRIAN PUSH BUTTON

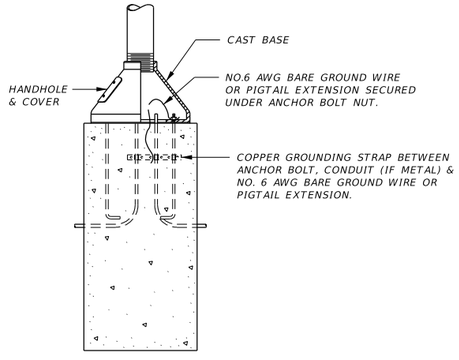
USE GRADE 60 REINFORCING STEEL

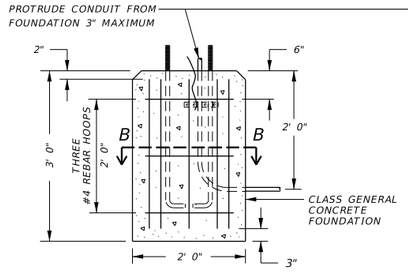


SECTION B-B

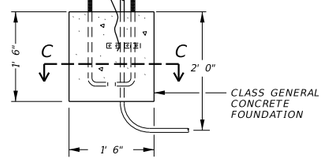


SECTION C-C





TYPE I-I20 & I-I00



TYPE I-80

TYPICAL OF FOUNDATIONS

TYPE I SIGNAL STANDARDS, FOUNDATION DETAILS & PEDESTRIAN PUSH BUTTONS

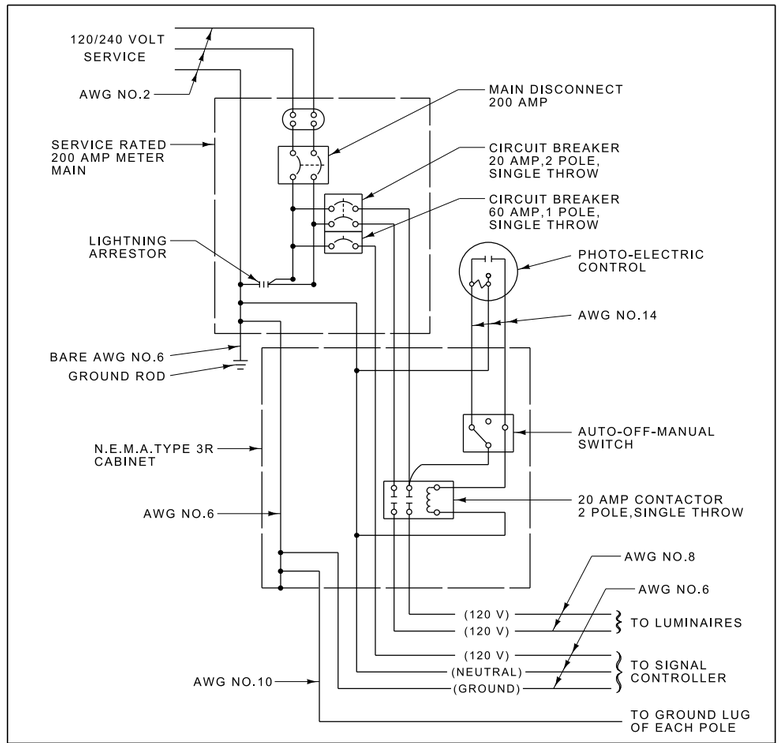
NO SCALE

T1SS

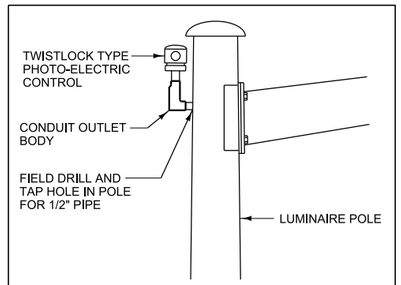
REVISED 15-APR-2014

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9570000elpln001.dgn	DESIGNED BY	DAN CUNNINGHAM	3/2021	ELECTRICAL PLANS	US 2 & 19TH AVE WEST - HAVRE	CMDP 1-6(127)381
1		6/7/2022	REVIEWED BY	Mike Grover	3/2022			
		10:53:37 AM CPS - U2948	CHECKED BY			HILL COUNTY	UPN 9570000	E4

DocuSign Envelope ID: D935690E-BDBE-4A02-8CA5-5019B8A78432



SIG / LUM SERVICE WIRING DIAGRAM

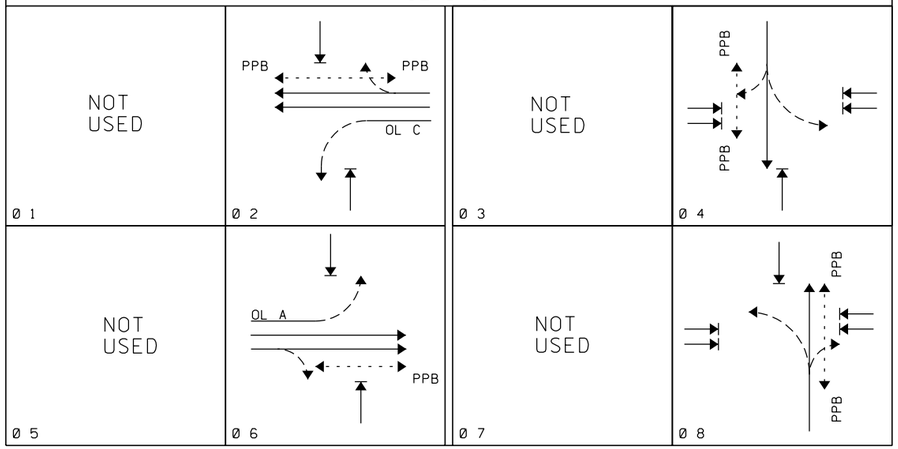


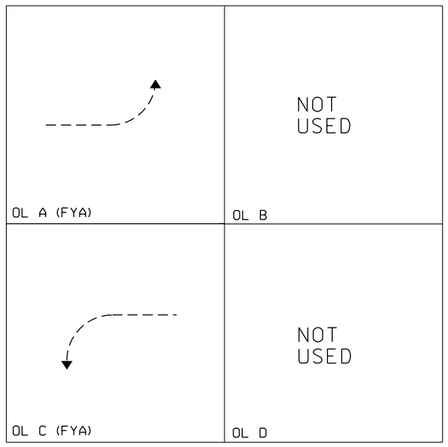
INSTALLATION DETAIL FOR
PHOTO-ELECTRIC CONTROL

DocuSign Envelope ID: D935690E-BDBE-4A02-8CA5-5019B8A78432

AWARD COPY

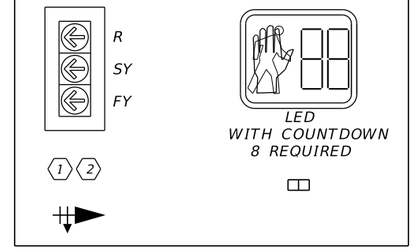
PHASE DIAGRAM





LEAVE EXISTING CONDUIT AND CONDUCTORS IN PLACE UNLESS CALLED OUT.

SIGNAL INDICATIONS



CONDUIT AND WIRE SCHEDULE

A
- NEW 2 OF 3" PLASTIC CONDUIT
- NEW 3 OF 6AWG CONDUCTOR (CONTROLLER)
- NEW 8 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
- NEW 2 OF 9 AWG NO. 14 SIGNAL CABLE (SIGNAL)
- NEW 4 OF RADAR DETECTION CABLE
- REMOVE 1 OF 7 AWG NO. 14 SIGNAL CABLE (SIGNAL, POLE 13)

B
- NEW 1 OF 3" PLASTIC CONDUIT
- NEW 3 OF 6AWG CONDUCTOR (CONTROLLER)
- NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
- NEW 2 OF RADAR DETECTION CABLE

C
- NEW 1 OF 3" PLASTIC CONDUIT
- NEW 4 OF 7 AWG NO. 14 SIGNAL CABLE(PED)
- NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE (SIGNAL)
- NEW 1 OF RADAR DETECTION CABLE

D
- NEW 1 OF 3" PLASTIC CONDUIT
- NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
- NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE (SIGNAL)
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)

E
- NEW 1 OF 2" PLASTIC CONDUIT
- NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)

H
- NEW 2 1/2" PLASTIC CONDUIT
- NEW 3 OF 6AWG CONDUCTOR (CONTROLLER)
- NEW 2 OF AWG NO. 6 CONDUCTOR (LIGHTING)
- NEW 1 OF 3AWG NO. 14 SIGNAL CABLE (PHOTO)
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)

J
- NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE (SIGNAL)
- NEW 1 OF RADAR DETECTION CABLE
- REMOVE 1 OF 7 AWG NO. 14 SIGNAL CABLE (SIGNAL)

K
- NEW 1 OF RADAR DETECTION CABLE

L
- NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE (SIGNAL)

M
- NEW 3 OF 6AWG CONDUCTOR (CONTROLLER)
- NEW 1 OF 3AWG NO. 14 SIGNAL CABLE (PHOTO)

N
- NEW 2 OF RADAR DETECTION CABLE

P
- NEW 3 OF 6AWG CONDUCTOR (CONTROLLER)

USE EXISTING CONDUIT AND CONDUCTORS IF NOT NOTED IN PLAN SHEET

POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	PEDESTRIAN PUSH BUTTON ← LEFT ARROW	PEDESTRIAN PUSH BUTTON → RIGHT ARROW	SIGNAL MASTARM	LUMINAIRE MASTARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	N OR Y COORDINATE	E OR X COORDINATE
1	617 673 100	1-100	BREAKAWAY	2' X 3'		1					1,570,249.40	1,916,505.50
2	617 673 100	1-100	BREAKAWAY	2' X 3'	1						1,570,262.78	1,916,539.02
3	617 673 100	1-100	BREAKAWAY	2' X 3'		1					1,570,360.01	1,916,553.31
4	617 673 100	1-100	BREAKAWAY	2' X 3'	1						1,570,392.96	1,916,519.42
5	617 673 100	1-100	BREAKAWAY	2' X 3'		1					1,570,397.50	1,916,458.55
6	617 673 100	1-100	BREAKAWAY	2' X 3'	1						1,570,373.54	1,916,410.17
7	617 673 100	1-100	BREAKAWAY	2' X 3'		1					1,570,282.41	1,916,400.07
8	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE					REMOVE	REMOVE
9	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE					REMOVE	REMOVE
10	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE					REMOVE	REMOVE
11	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE					REMOVE	REMOVE
12	EXISTING	EXISTING	EXISTING	EXISTING			EXISTING				EXISTING	EXISTING
13	EXISTING	EXISTING	EXISTING	EXISTING			EXISTING				EXISTING	EXISTING
14	EXISTING	EXISTING	EXISTING	EXISTING			EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
15	EXISTING	EXISTING	EXISTING	EXISTING			EXISTING				EXISTING	EXISTING
16	617 673 100	1-100	BREAKAWAY	2' X 3'	1						1,570,258.69	1,916,444.98

REMOVE: REMOVE AND SALVAGE ALL EQUIPMENT: POLE, BASE, PUSH BUTTONS, PEDHEADS, AND REMOVE AND DISPOSE OF CONDUCTORS AND FOUNDATIONS.

REFERENCE: NH 1-6(20)379 - UPN 2314 PL42

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

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9570000elpln001.dgn	DESIGNED BY	DAN CUNNINGHAM	3/2021	ELECTRICAL PLANS	US 2 & 19TH AVE WEST - HAVRE / CMDP 1-6(127)381
2		6/7/2022	REVIEWED BY	Mike Grover	3/2022	HILL COUNTY	UPN 9570000 / E6
		10:53:44 AM CPS - U2940	CHECKED BY				