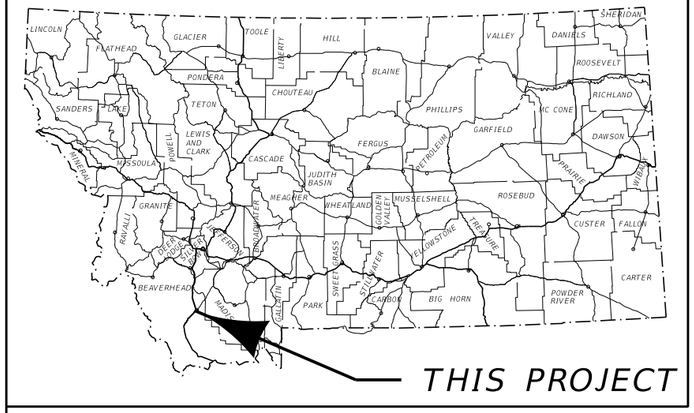
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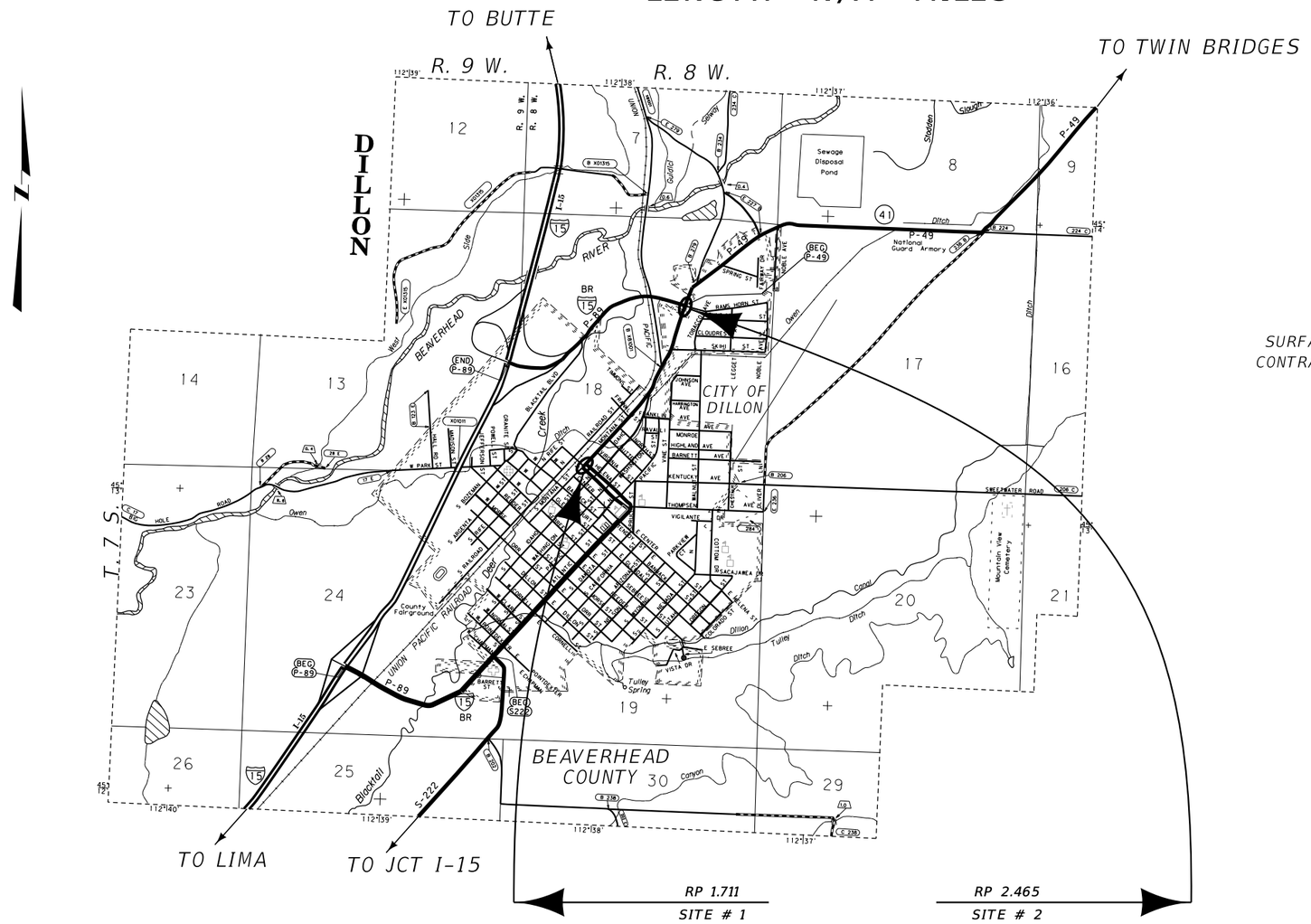
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT CMDO STWD(611)
SIGNALS, ADA UPGRADES, & SIGNING
SIGNALS-DILLON
BEAVERHEAD COUNTY

LENGTH N/A MILES



SURFACING SOURCES - CONTRACTOR FURNISHED

SITE #1
DATA FOR P-89 (HELENA ST)

PRESENT	2023	A.D.T. = 5230
LETTING	2024	A.D.T. = 5280
DESIGN	2044	A.D.T. = 6440
		D.H.V. = 700
		TRUCKS = 2.8 %
		V. = 35 MPH
		18 KIP ESAL'S = 83
		GROWTH RATE = 1.1 % ANNUALLY

SITE #2
DATA FOR N-89 (N INTERCHANGE RD)

PRESENT	2023	A.D.T. = 4840
LETTING	2024	A.D.T. = 4960
DESIGN	2044	A.D.T. = 8120
		D.H.V. = 720
		TRUCKS = 5.9 %
		V. = 35 MPH
		18 KIP ESAL'S = 206
		GROWTH RATE = 2.5 % ANNUALLY

DATA FOR N-49 (N MONTANA ST)

PRESENT	2023	A.D.T. = 5680
LETTING	2024	A.D.T. = 5790
DESIGN	2044	A.D.T. = 8430
		D.H.V. = 870
		TRUCKS = 8.9 %
		V. = 35 MPH
		18 KIP ESAL'S = 236
		GROWTH RATE = 1.9 % ANNUALLY

MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:

TRAFFIC AND SAFETY ENGINEER

MONTANA GABE B. PRIEBE 13957PE LICENSED PROFESSIONAL ENGINEER

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

7/23/2024
DATE

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R / W	
I.C.	
P. E.	CMDO-G STWD(610)

3 / 2	MONTANA Department of Transportation	C:\DGN\9571000rdtl001.dgn	DESIGNED BY	MSU DESIGN UNIT	1/31/2024
		5/28/2024	REVIEWED BY	SABASTIAN LUCIO	2/21/2024
		3:47:39 PM CPS - U2602	CHECKED BY	TROY JOHNSON	3/12/2024
					ROAD PLANS
					UPN 9571000

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DETAILS	E1
PLANS	E2 - E5

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
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.

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.

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CONTROL DIAGRAM

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
611	369,055.273	1,161,190.863	5,092.52	FOUND 5/8"X30" REBAR W/2" MDT ALUMINUM CAP STAMPED "611", 4.5 FEET EAST OF DELINIATOR, 6 FEET EAST OF TOP BACK OF CURB IN FRONT OF MEDIAN, LOCATED IN THE EAST MEDIAN OF EAST HELENA AND NORTH WASHINGTON STREETS.
A9571	369,490.360	1,160,639.083	5,095.75	SET 5/8"X30" REBAR W/2" MDT ALUMINUM CAP STAMPED "A9571 2018", 3 FEET WEST OF TOP BACK OF CURB, 26 FEET NORTH OF HYDRANT, 21 FEET SOUTH OF LIGHT POLE, LOCATED ON THE SOUTHWEST SIDE OF NORTH MONTANA STREET.
B9571	369,475.800	1,160,795.682	5,094.65	SET 5/8"x30" REBAR W/2" MDT ALUMINUM CAP STAMPED "B9571 2018", EAST OF THE N MONTANA AND E HELENA INTERSECTION ALONG E HELENA AVE, 5 FEET NORTH OF TOP BACK OF CURB, 21 FEET EAST OF SIGN, 37 FEET SOUTH OF CARQUEST BUILDING.
C9571	372,681.266	1,162,600.111	5,080.19	SET 5/8"X30" REBAR W/2" MDT ALUMINUM CAP STAMPED "C9571 2018", 33 FEET SOUTH OF SIGN, 44 FEET NORTH OF FENCE, 45 FEET SOUTH OF EDGE OF PAVEMENT, 1 FOOT NORTH OF WITNESS POST.
D9571	372,795.438	1,162,714.040	5,079.75	SET 5/8"X30" REBAR W/2" MDT ALUMINUM CAP STAMPED "D9571 2018", 33 FEET NORTH OF LIGHT POLE, 17 FEET SOUTH OF FENCE, 24 FEET WEST OF CROSS WALK SIGN, 1 FOOT SOUTH OF WITNESS POST.
E9571	372,818.069	1,162,534.579	5,086.19	SET 5/8"X30" REBAR W/2" MDT ALUMINUM CAP STAMPED "E9571 2018", 6 FEET NORTH OF GUARDRAIL, 7 FEET NORTH OF EDGE OF PAVEMENT, 22 FEET WEST OF SPEEDLIMIT SIGN, 1 FOOT NORTH OF WITNESS POST.

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).

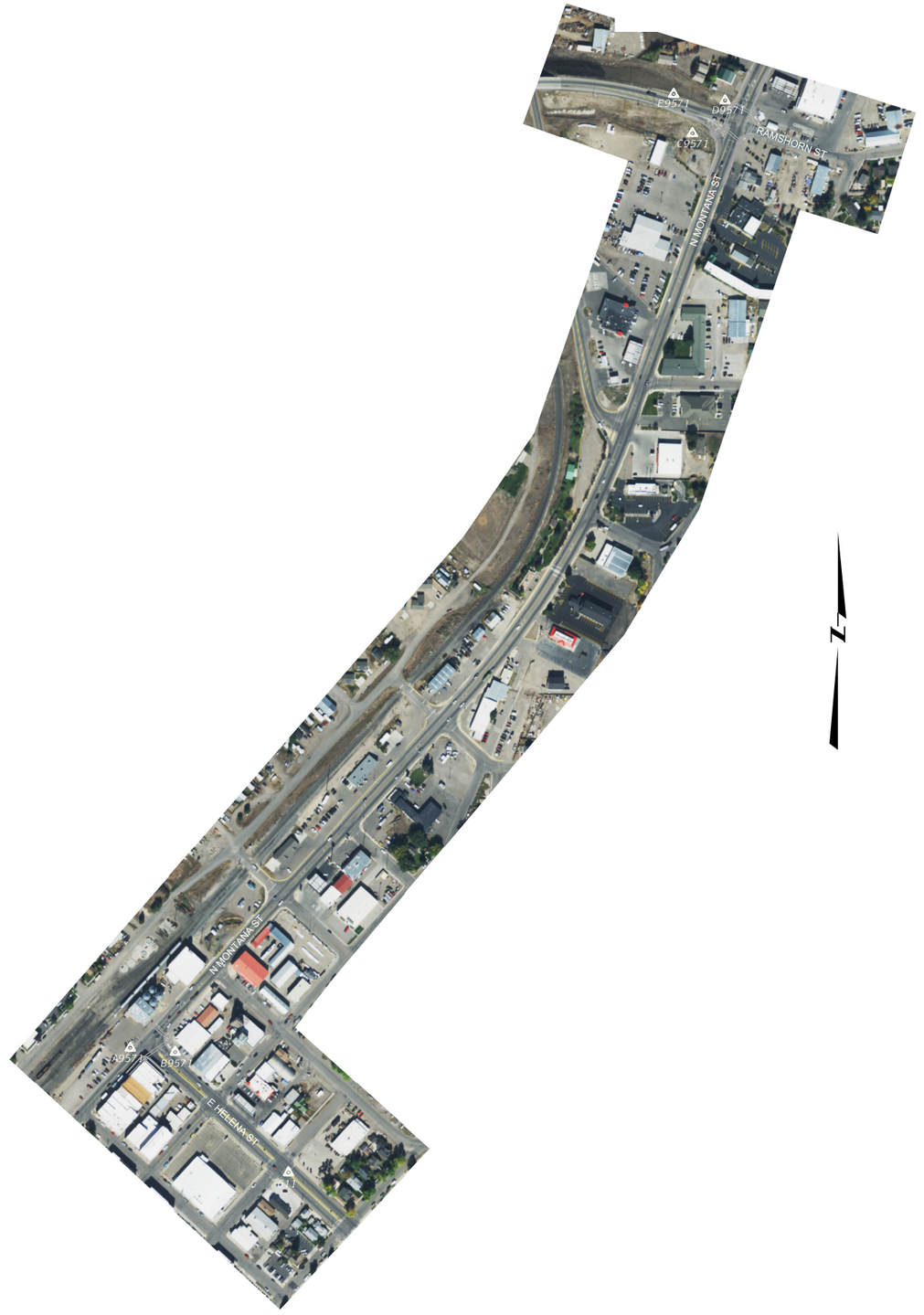
THE CSF FOR THIS PROJECT IS 0.99963202.

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD83-2011

LEVEL DATUM SOURCE

NAVD88 (GNSS DERIVED ELEVATIONS USING GEOID 12A AND HOLDING D321, DILLON2, AND L68)



3	MONTANA Department of Transportation	C:\dgn\9571000RDTRV001.DG	DESIGNED BY	MSU DESIGN UNIT	1/31/2024	ROAD PLANS	SIGNALS-DILLON	CMDO STWD(611)
2		5/15/2024	REVIEWED BY	SABASTIAN LUCIO	2/21/2024			
		10:12:31 AM u2602	CHECKED BY	TROY JOHNSON	3/12/2024	BEAVERHEAD COUNTY	UPN 9571000	3

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SUMMARY

CURB

REFERENCE POST		linear feet				REMARKS
		CONCRETE CURB AND GUTTER		# REMOVE CURB AND GUTTER		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	
RP 1.725	RP 1.730	25.6		25.6		NW CORNER N MONTANA ST & E HELENA ST
RP 1.711	RP 1.732		72.9		72.9	NE CORNER N MONTANA ST & E HELENA ST INCL. 1-46' RADIUS
RP 1.720	RP 1.724	32.7		32.7		SE CORNER N MONTANA ST & E HELENA ST INCL. 1-20' RADIUS
RP 2.451	RP 2.456	41.4		41.4		NW CORNER N MONTANA ST & RAMSHORN ST INCL. 1-65.2' RADIUS
SUBTOTAL		99.7	72.9	99.7	72.9	
TOTAL		172.6		~		

FOR INFORMATION ONLY - INCLUDE IN THE COST OF NEW CURB & GUTTER

SIDEWALK

REFERENCE POST		sq. yards						linear feet	REMARKS
		CONCRETE SIDEWALK		DETECTABLE WARNING DEVICES		REMOVE SIDEWALK #		WIDTH	
		4"		TYPE 1					
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT		
RP 1.725	RP 1.730	17.0		1.1		17.0		VARIES	NW CORNER N. MONTANA ST. & E. HELENA ST. - SEE CURB RAMP DETAILS
RP 1.711	RP 1.732		96.1		2.2		96.1	VARIES	NE CORNER N. MONTANA ST. & E. HELENA ST. - SEE CURB RAMP DETAILS
RP 1.720	RP 1.724	29.7		0.9		29.7		VARIES	SE CORNER N. MONTANA ST. & E. HELENA ST. - SEE CURB RAMP DETAILS
RP 2.451	RP 2.456	51.5		2.3		51.5		VARIES	NW CORNER N. MONTANA ST. & RAMSHORN ST. - SEE CURB RAMP DETAILS
RP 2.445	RP 2.445		36.4		2.6		36.4	VARIES	NE CORNER N. MONTANA ST. & RAMSHORN ST. - SEE CURB RAMP DETAILS
RP 2.456	RP 2.465	27.5		1.2		27.5		VARIES	SW CORNER N. MONTANA ST. & RAMSHORN ST. - SEE CURB RAMP DETAILS
RP 2.451	RP 2.455	24.2		5.4				8.0	ISLAND - SW CORNER N. MONTANA ST. & RAMSHORN ST. - SEE CURB RAMP DETAILS (INCLUDES EXISTING PMS REMOVAL)
RP 2.432	RP 2.441		74.2		2.3		74.2	VARIES	SE CORNER N. MONTANA ST. & RAMSHORN ST. - SEE CURB RAMP DETAILS
SUBTOTAL		149.9	206.7	10.9	7.1	125.7	206.7	~	
TOTAL		356.6		18.0		~		~	

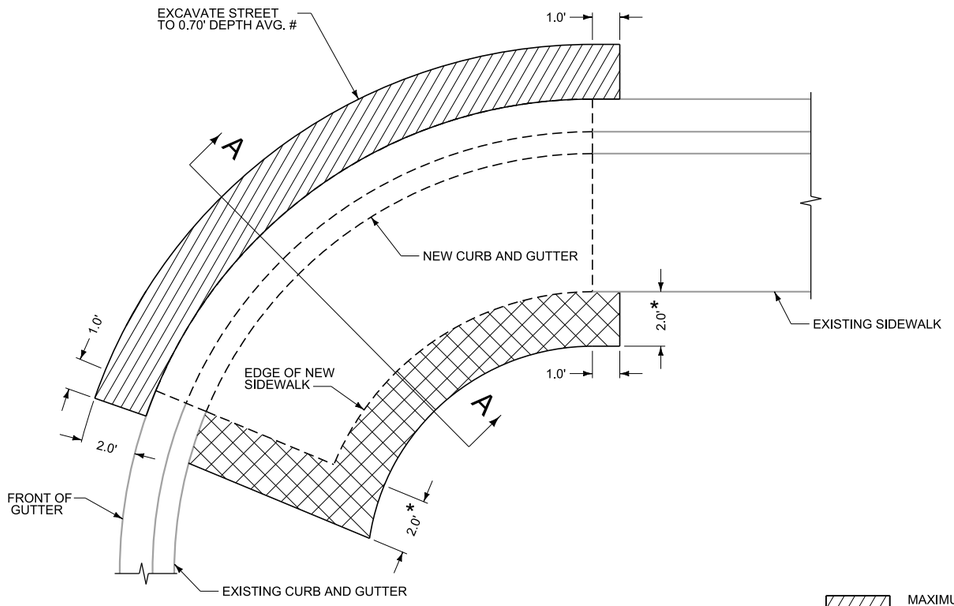
FOR INFORMATION ONLY, INCLUDE IN THE COST OF NEW SIDEWALK

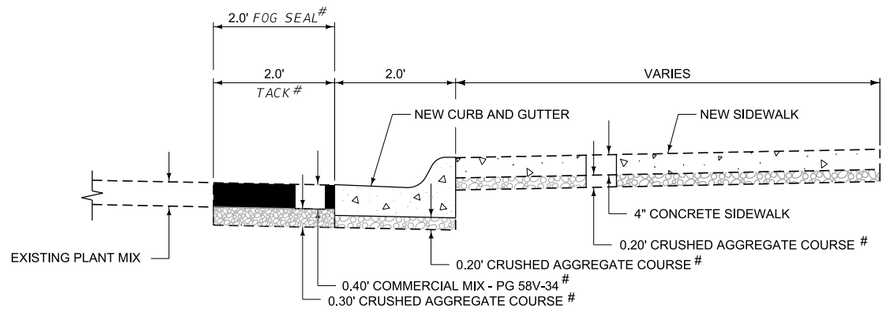
PAVEMENT MARKINGS

ITEM	UNIT	FINAL APPLICATION	TOTAL
STRIPING - WHITE EPOXY	gallon	15	15
STRIPING - YELLOW EPOXY	gallon	8	8
WORDS & SYMBOLS - WHITE EPOXY	gallon	23	23
CURB MARKING - WHITE EPOXY	gallon	2	2
CURB MARKING - YELLOW EPOXY	gallon	38	38

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DETAIL





SECTION A-A

MAXIMUM CONSTRUCTION LIMITS FOR REMOVAL OF EXISTING CURB AND GUTTER AND PLACEMENT OF FORMS FOR NEW CURB AND GUTTER.

MAXIMUM CONSTRUCTION LIMITS FOR PLACEMENT OF FORMS FOR NEW SIDEWALK *

* ONLY REMOVE TO A WIDTH OF 2.0' MAX.
WHEN ADJACENT TO GRASS, REPLACE WITH SOD.
WHEN ADJACENT TO LANDSCAPING, REPLACE WITH EQUIVALENT AS INSTRUCTED BY PROJECT MANAGER.
THESE ITEMS ARE NOT MEASURED FOR PAYMENT AND ARE INCLUDED IN THE COST OF NEW SIDEWALK OR NEW CURB AND GUTTER.
DO NOT DISTURB ADJACENT FENCES OR STRUCTURES.

\# ITEMS ARE NOT MEASURED FOR PAYMENT AND ARE INCLUDED IN THE COST OF NEW SIDEWALK OR NEW CURB AND GUTTER.

DETAIL

STREET EXCAVATION AND SIDEWALK

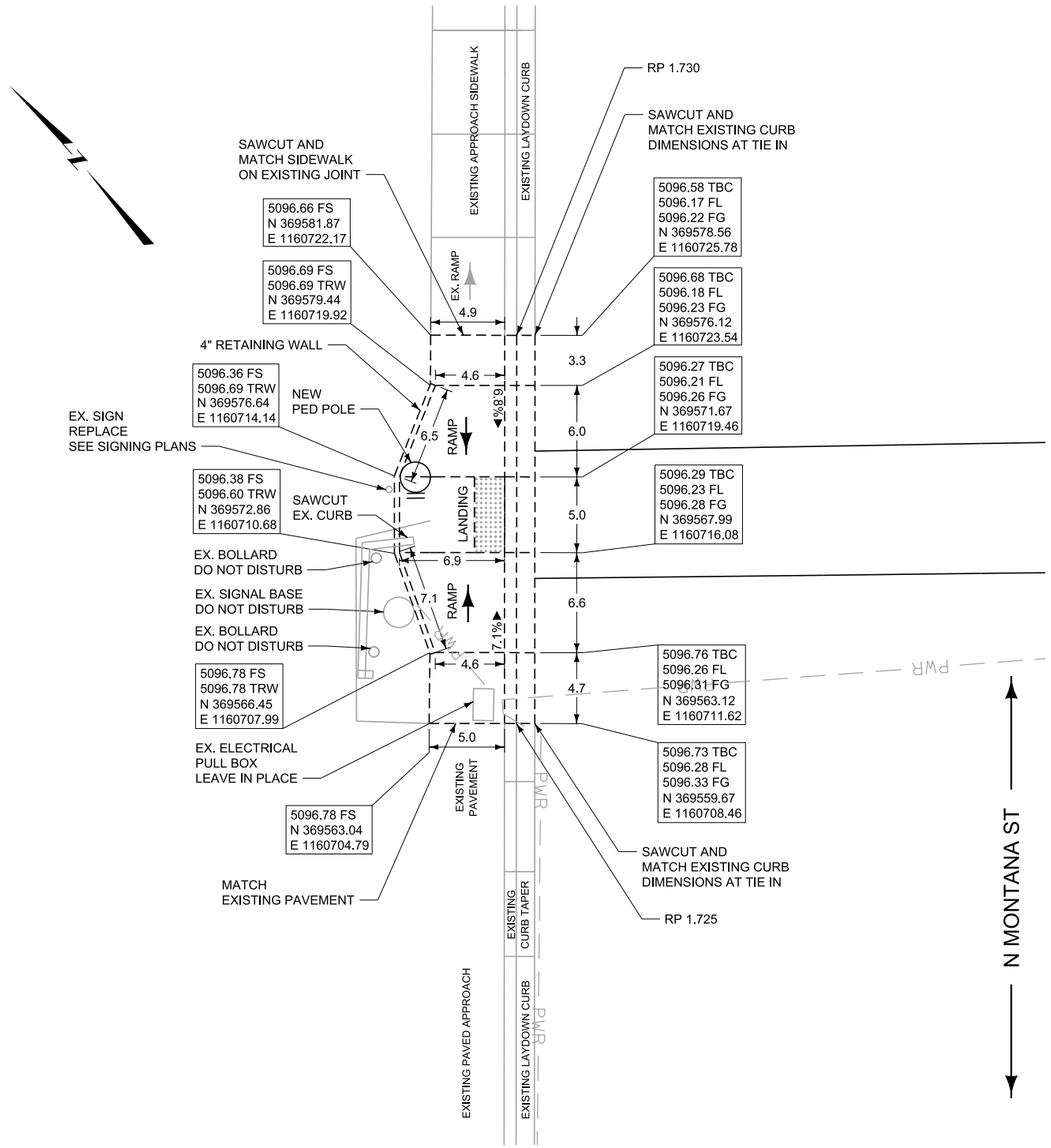
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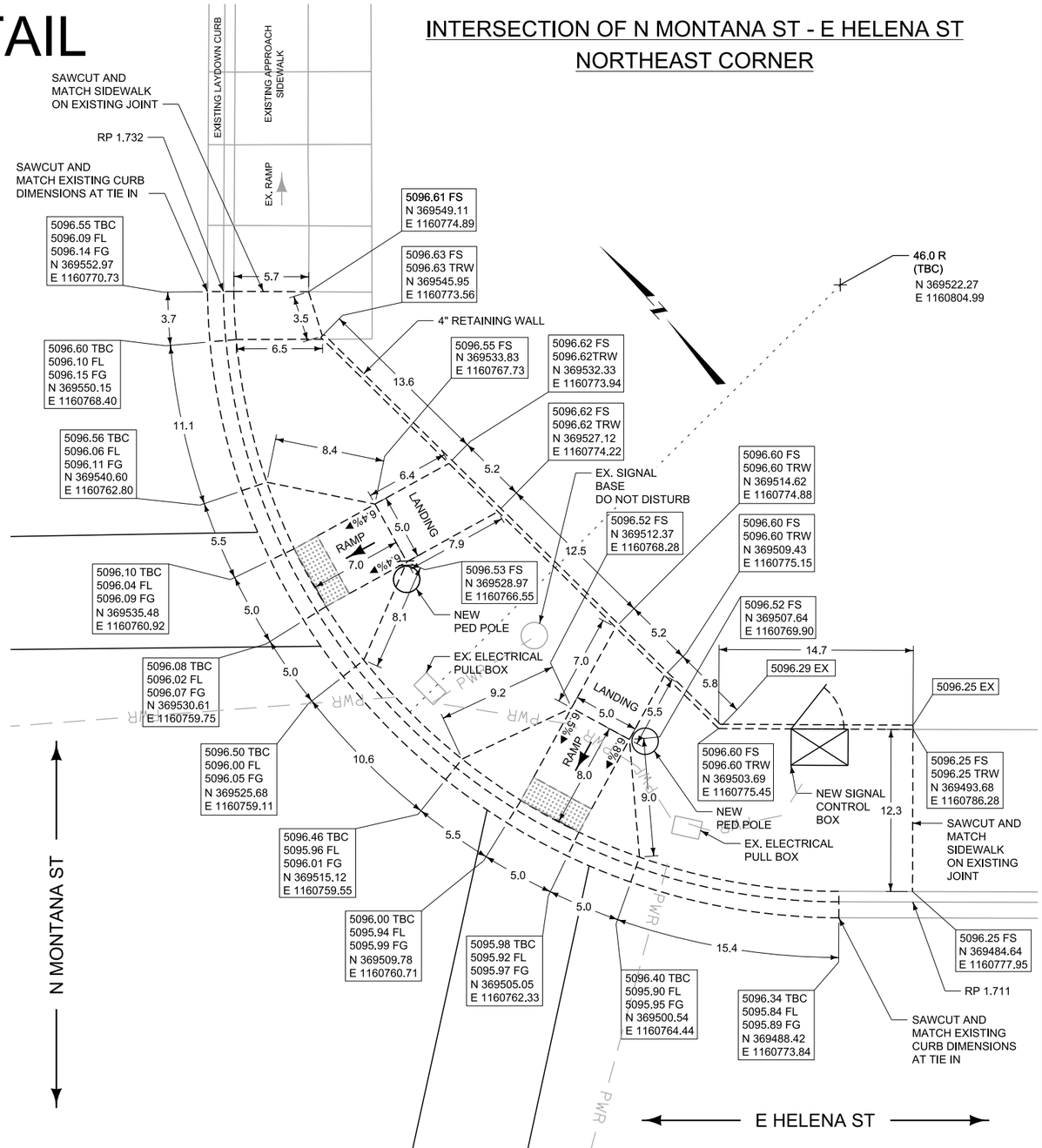
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DETAIL

INTERSECTION OF N MONTANA ST - E HELENA ST
NORTHWEST CORNER



INTERSECTION OF N MONTANA ST - E HELENA ST
NORTHEAST CORNER



LEGEND

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

DETECTABLE WARNING DEVICES

SIDEWALK RAMP

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 IN FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC, UNLESS OTHERWISE NOTED.

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.

DETAIL
CURB RAMPS

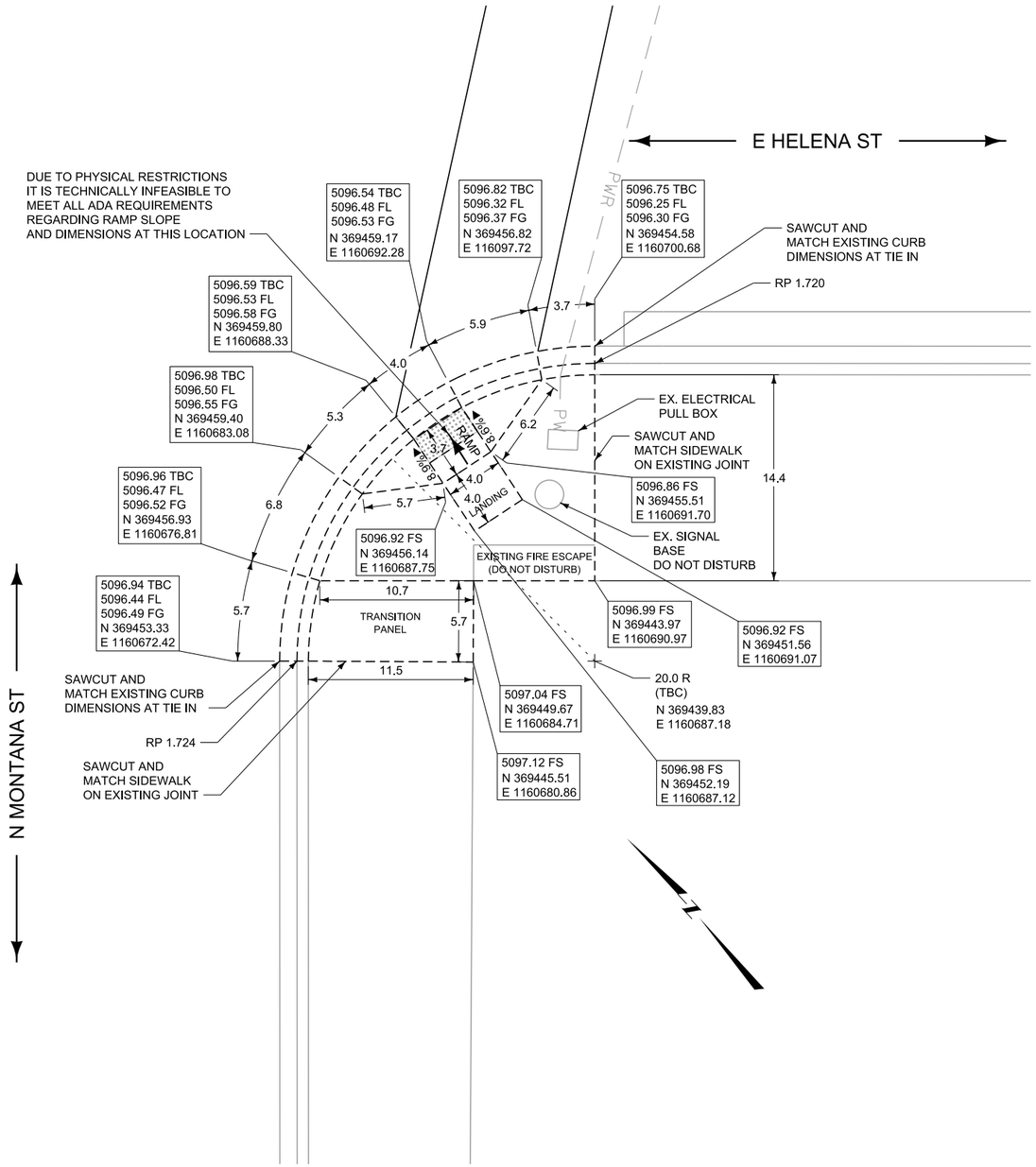
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		5/28/2024	REVIEWED BY	SABASTIAN LUCIO	2/21/2024			
		3:48:36 PM CPS - U2602	CHECKED BY	TROY JOHNSON	3/12/2024	BEAVERHEAD COUNTY	UPN 9571000	6

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DETAIL

INTERSECTION OF N MONTANA ST - E HELENA ST
SOUTHEAST CORNER



LEGEND

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

SIDEWALK RAMP

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

DETAIL
CURB RAMPS

NO SCALE

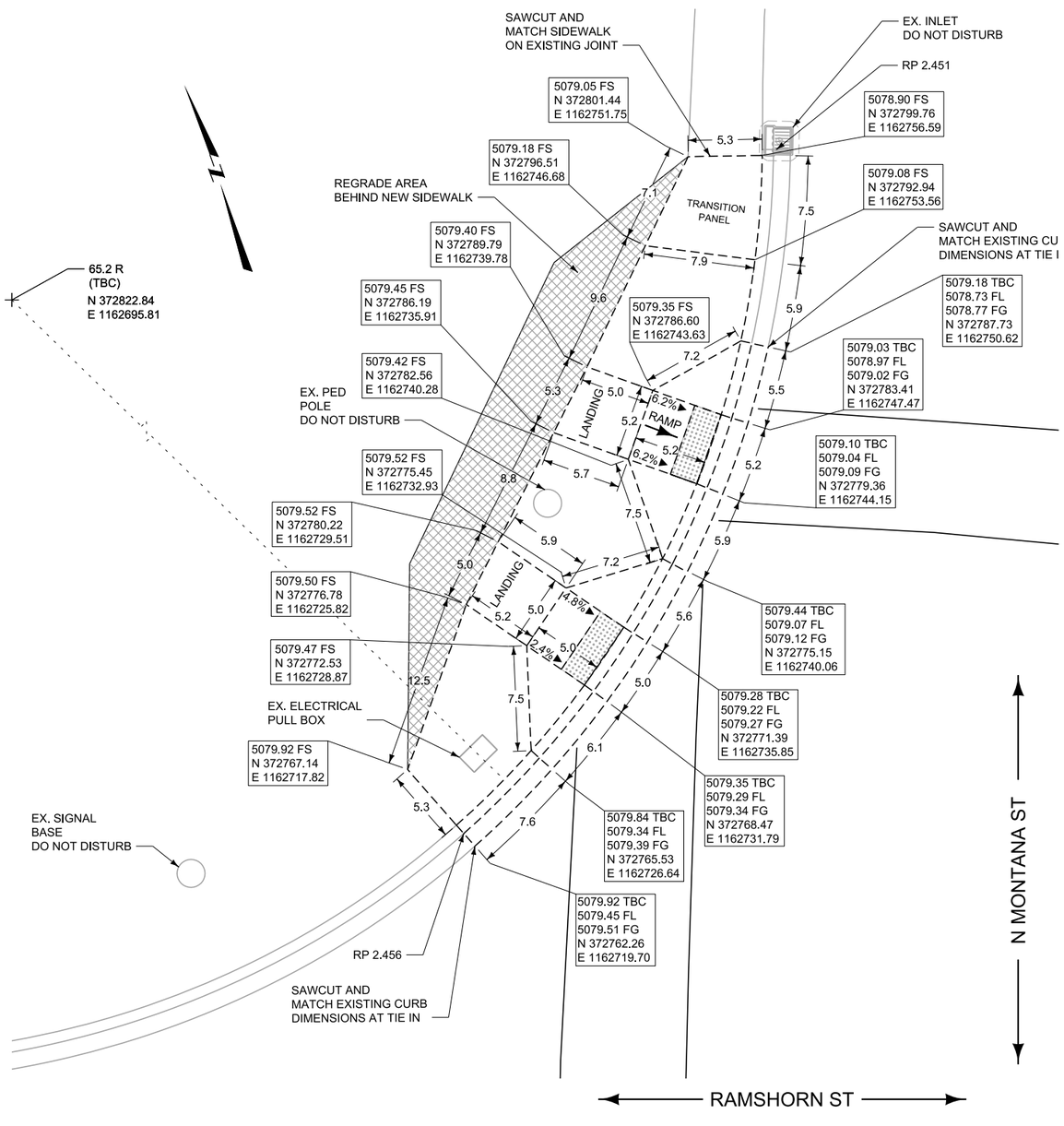
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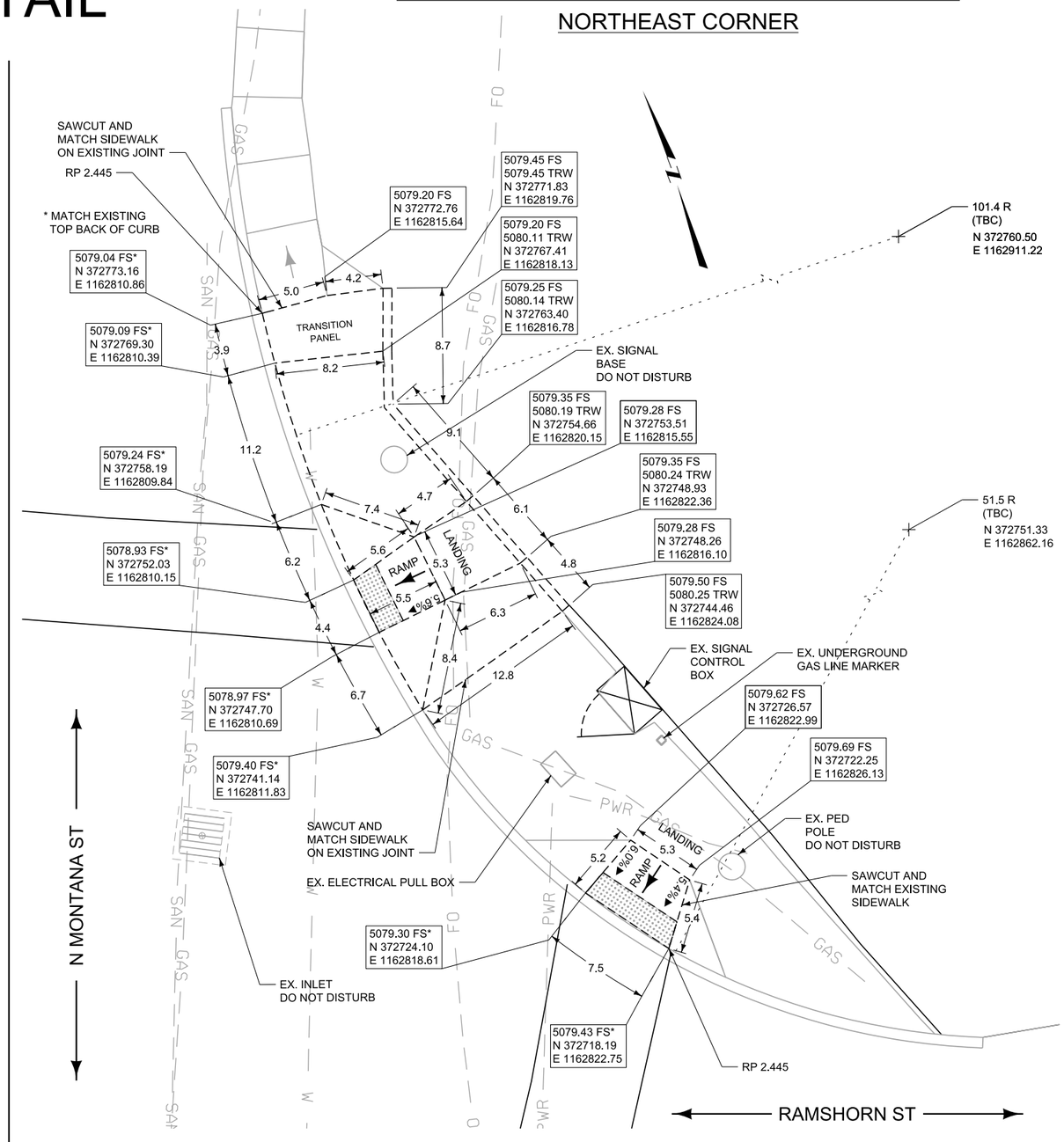
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DETAIL

INTERSECTION OF N MONTANA ST - RAMSHORN ST
NORTHWEST CORNER



INTERSECTION OF N MONTANA ST - RAMSHORN ST
NORTHEAST CORNER



LEGEND
TBC= TOP BACK OF CURB ELEV.
FL= FLOW LINE ELEV.
FG = FRONT OF GUTTER ELEV.
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EX. = EXISTING FINISHED SURFACE ELEV.

DETECTABLE WARNING DEVICES

SIDEWALK RAMP

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ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

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

DETAIL
CURB RAMPS

NO SCALE

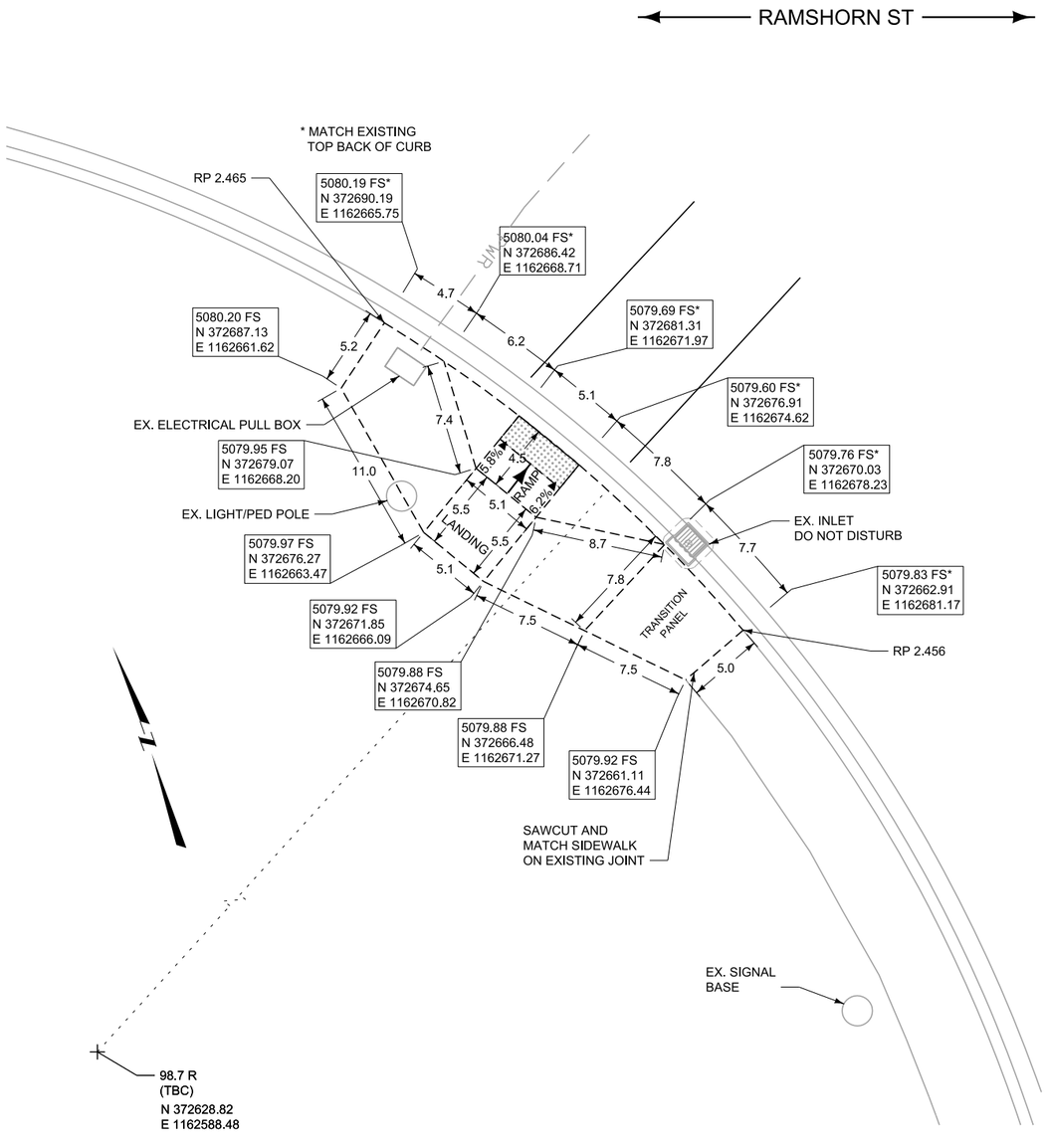
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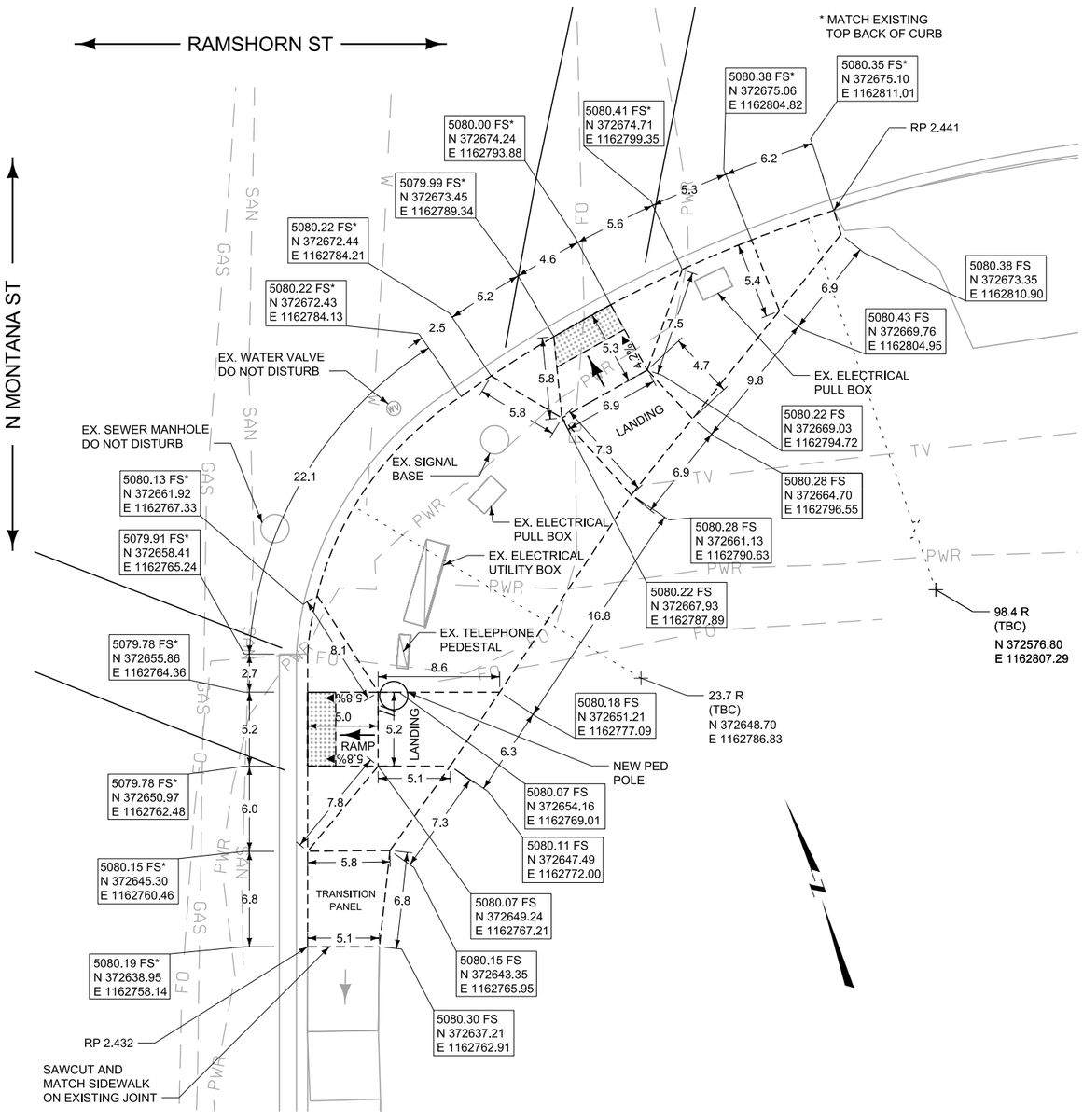
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DETAIL

INTERSECTION OF N MONTANA ST - RAMSHORN ST
SOUTHWEST CORNER



INTERSECTION OF N MONTANA ST - RAMSHORN ST
SOUTHEAST CORNER



LEGEND

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

DETECTABLE WARNING DEVICES

SIDEWALK RAMP

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.

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

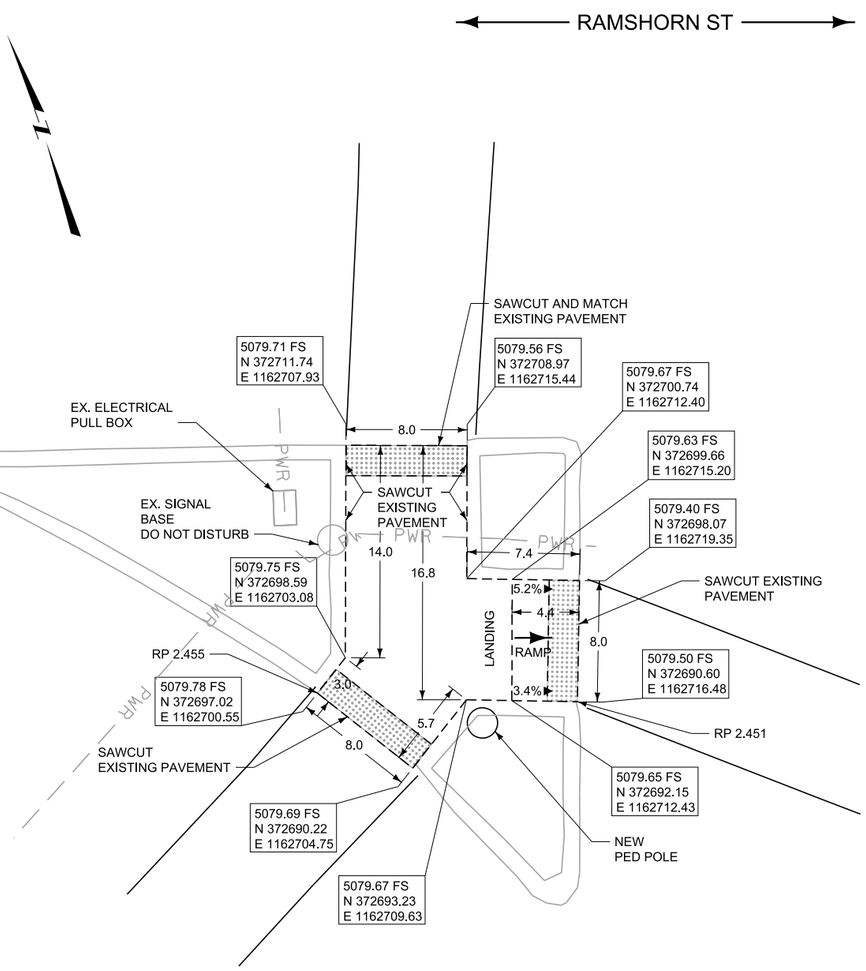
DETAIL
CURB RAMPS

NO SCALE

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DETAIL

INTERSECTION OF N MONTANA ST - RAMSHORN ST
SOUTHWEST CORNER - ISLAND



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

DETECTABLE WARNING DEVICES

SIDEWALK RAMP

NOTES:

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ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

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

DETAIL

CURB RAMPS

NO SCALE

2	MONTANA Department of Transportation	C:\DGN\9571000rddet003.dgn	DESIGNED BY	MSU DESIGN UNIT	1/31/2024	ROAD PLANS	SIGNALS-DILLON / CMDO STWD(611)
1		5/28/2024	REVIEWED BY	SABASTIAN LUCIO	2/21/2024		
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SUMMARY
SIGNING & DELINEATION QUANTITIES

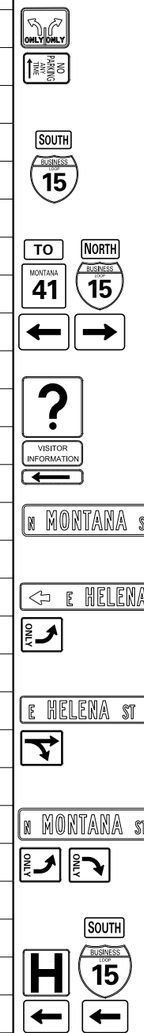
MATERIAL	TOTAL	UNIT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(XI)	185.9	SQ. FOOT
POSTS-TUBULAR STEEL (SQUARE PERFORATED)		POUNDS
POSTS-STRUCTURAL STEEL		POUNDS
OVERHEAD STRUCTURE-METAL-CANTILEVER		EACH
OVERHEAD STRUCTURE-METAL-BRIDGE		EACH
REMOVE SIGNS	22	EACH
REMOVE SIGNS-GUIDE		EACH
RESET SIGNS		EACH
RESET SIGNS-GUIDE		EACH
FRANGIBLE SIGN POST BREAKAWAY DEVICE-		EACH
SQUARE TUBULAR SLIPBASE BREAKAWAY DEVICE-3"		EACH

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SIGN LOCATION AND SPECIFICATIONS

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	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 REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET	REMARKS
SITE 1	N	MONTANA ST & E HELENA ST																										
1.686 RT		R3-99	30 X 36											2.0									1					REPLACE SIGN FACE ONLY
		R7-1L	12 X 18											1.5														REPLACE SIGN FACE ONLY
1.701 LT		M3-3B	24 X 12											2.0									1					REPLACE SIGN FACE ONLY
		M1-2(15)	24 X 24											3.2														REPLACE SIGN FACE ONLY
1.706 RT		M4-5 M1-5(41)	24 X 12 24 X 24											2.0 4.0									1				BBR	REPLACE SIGN FACE ONLY
		M6-1R M3-1B	21 X 15 24 X 12											4.4 2.0														REPLACE SIGN FACE ONLY
		M1-2(15) M6-1BR	24 X 24 21 X 15											3.2 4.4														REPLACE SIGN FACE ONLY
1.708 MED		D9-10	24 X 24											4.0									1					REPLACE SIGN FACE ONLY
		D9-10a D9-10b	24 X 12 24 X 6											2.0 1.0														REPLACE SIGN FACE ONLY
1.709 LT		0H D3	60 X 12											5.0									1					ON MAST ARM D3 = N MONTANA ST
1.711 LT		0H D3	60 X 12											6.0									1					ON MAST ARM D3 = E HELENA ST
		0H R3-5L	30 x 36											7.5									1					ON MAST ARM
1.716 RT		0H D3	72 X 12											6.0									1					ON MAST ARM D3 = E HELENA ST
		R3-6R	30 X 36											7.5														ON MAST ARM - NEW
1.721 LT		0H D3	60 X 12											5.0									1					ON MAST ARM D3 = N MONTANA ST
		0H R3-5L 0H R3-5R	30 x 36 30 X 36											7.5 7.5														ON MAST ARM - NEW
1.725 LT		D9-2	24 X 24											4.0									1				BBR	REPLACE SIGN FACE ONLY
		M3-3B M1-2 (15)	24 X 12 24 X 24											2.0 3.2													BBR	REPLACE SIGN FACE ONLY
		M6-1AL M6-1BL	21 X 15 21 X 15											2.2 2.2													BBR	REPLACE SIGN FACE ONLY
												TOTAL		101.3									10					



RSFO = REPLACE SIGN FACE ONLY

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

3	MONTANA Department of Transportation	C:\DGN\9571000sisum001.dgn	DESIGNED BY: STEVEN MORANO	11/2023	SIGNING PLANS	SIGNALS-DILLON	CMDO STWD(611)
2		5/16/2024					
1		8:59:37 AM CPS - U448	CHECKED BY: NATHAN STYREN	12/2023	BEAVERHEAD COUNTY	UPN 9571000	S2

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SIGN LOCATION AND SPECIFICATIONS

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	BREAK AWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
SITE 2 N MONTANA ST & RAMSHORN ST C00089																													
2.419 LT		0H R10-17A	30 X 36											7.5									1					ON MAST ARM	
2.429 RT		0H D3	60X12											5.0									1					ON MAST ARM D3 = N MONTANA ST	N MONTANA ST
		0H R3-5	30 x 36											7.5									1					ON MAST ARM	
2.432 LT		0H D3	72X12											6.0									1					ON MAST ARM D3 = RAMSHORN ST	RAMSHORN ST
		0H R3-5L	30 x 36 30 X 36											7.5									1					ON MAST ARM	ONLY
		0H R3-6R	30 x 36 30 X 36											7.5									1					ON MAST ARM	
		R10-6	24 x 36											5.0									1					ON MAST ARM	STOP WHEN FLASHING RED
0.008 LT		0H D3	60X12											5.0									1					ON MAST ARM D3 = RAMSHORN ST	RAMSHORN ST
SITE 2 N MONTANA ST & RAMSHORN ST C00049																							1						
0.000 LT		0H D3	72X12											6.0									1					ON MAST ARM D3 = N MONTANA ST	N MONTANA ST
		0H R3-5L	30 x 36											7.5														ON MAST ARM	ONLY
		0H R3-6R	30 x 36											7.5									1					ON MAST ARM	
0.018 LT		M4-6 M1-5(41)	24 X 12 24 X 24											2.0 3.2									1				BBR	REPLACE SIGN FACE ONLY	END TO MONTANA 41 INTERSTATE 15
		M4-5A M1-1 (15)	24 X 12 24 X 24											2.0 3.2														REPLACE SIGN FACE ONLY	
		M6-1AR	21 X 15											2.2														REPLACE SIGN FACE ONLY	
TOTAL														84.6									12						
GRAND TOTAL														185.9									22						

RSFO = REPLACE SIGN FACE ONLY

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

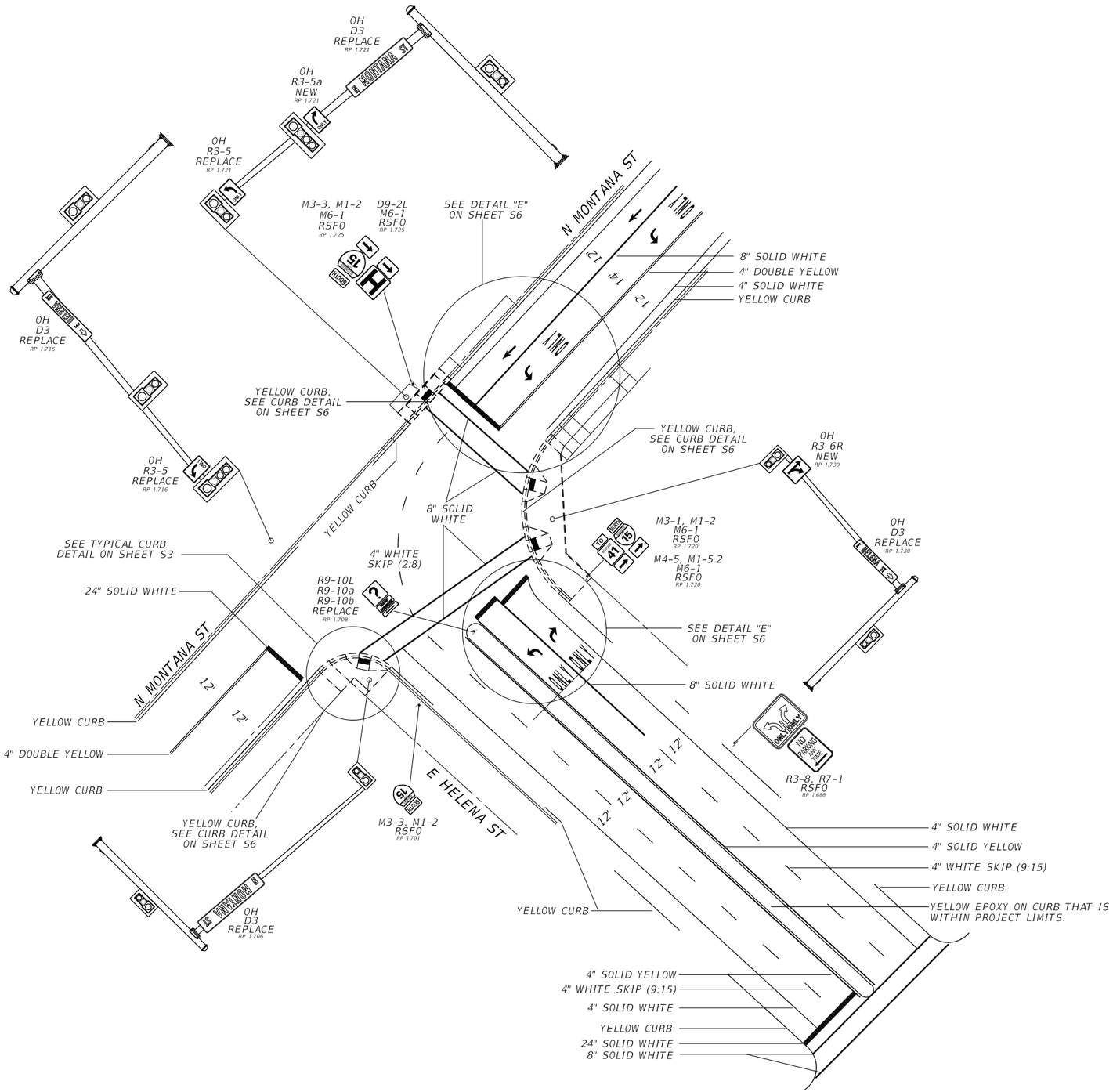
BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ'D.

3	MONTANA Department of Transportation	C:\DGN\9571000sisum001.dgn	DESIGNED BY: STEVEN MORANO	11/2023	SIGNING PLANS		SIGNALS-DILLON	CMDO STWD(611)
2		5/16/2024	CHECKED BY: NATHAN STYREN	12/2023	BEAVERHEAD COUNTY		UPN 9571000	S3
1		8:59:40 AM CPS - U4484						

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PAVEMENT MARKING PLAN AND DETAILS



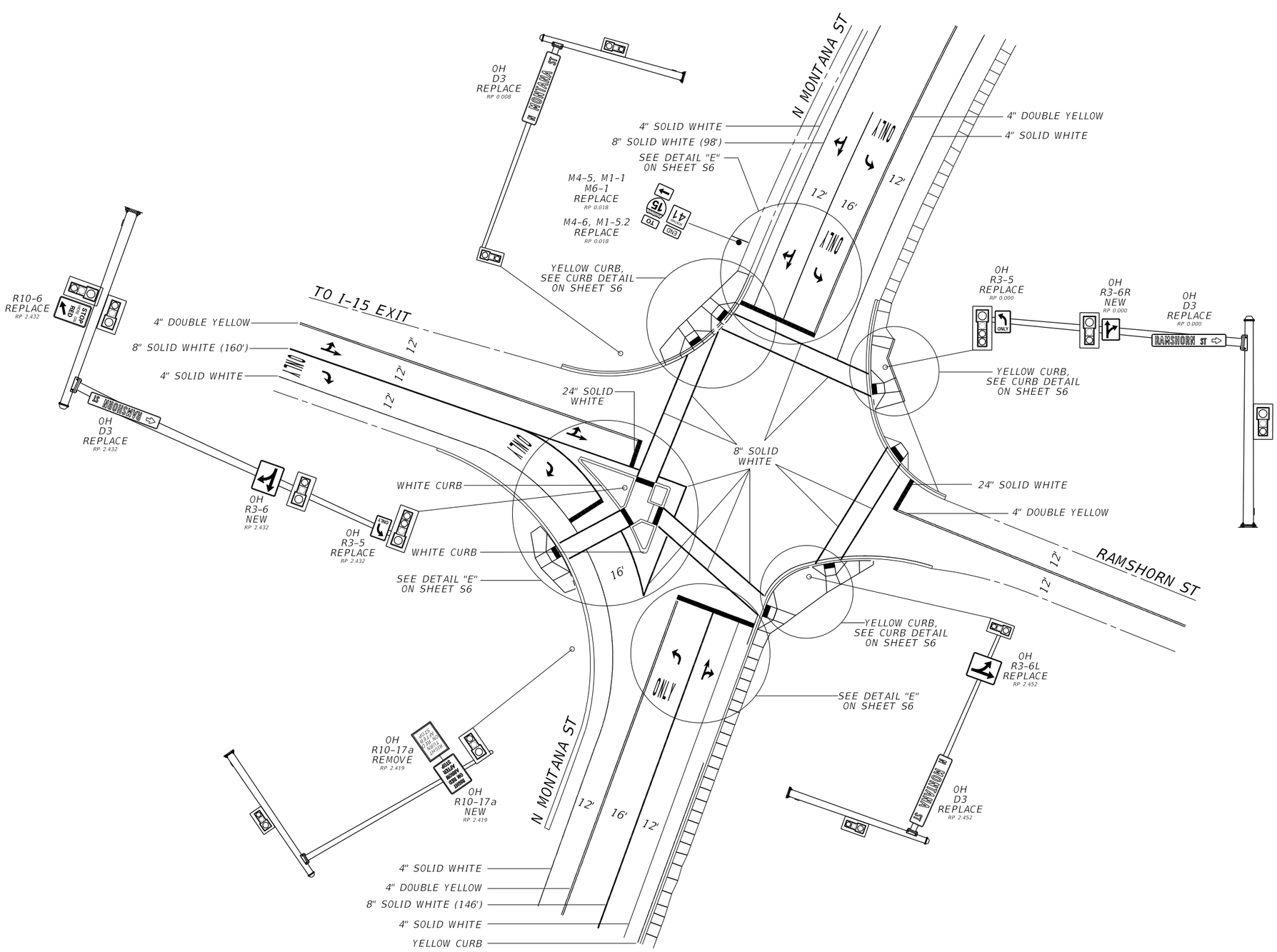
NOTE: SIGNS NOT SHOWN TO REMAIN "USE AS IS"
UNLESS DIRECTED OTHERWISE BY PROJECT MANAGER.

3	MONTANA Department of Transportation	C:\DGN\9571000sipln001.dgn	DESIGNED BY:	STEVEN MORANO	11/2023	SIGNING PLANS	SIGNALS-DILLON / CMDO STWD(611)
2		5/16/2024					
1		8:59:51 AM CPS - U4484	CHECKED BY:	NATHAN STYREN	12/2023	BEAVERHEAD COUNTY	UPN 9571000 / S4

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AWARD COPY

PAVEMENT MARKING PLAN AND DETAILS



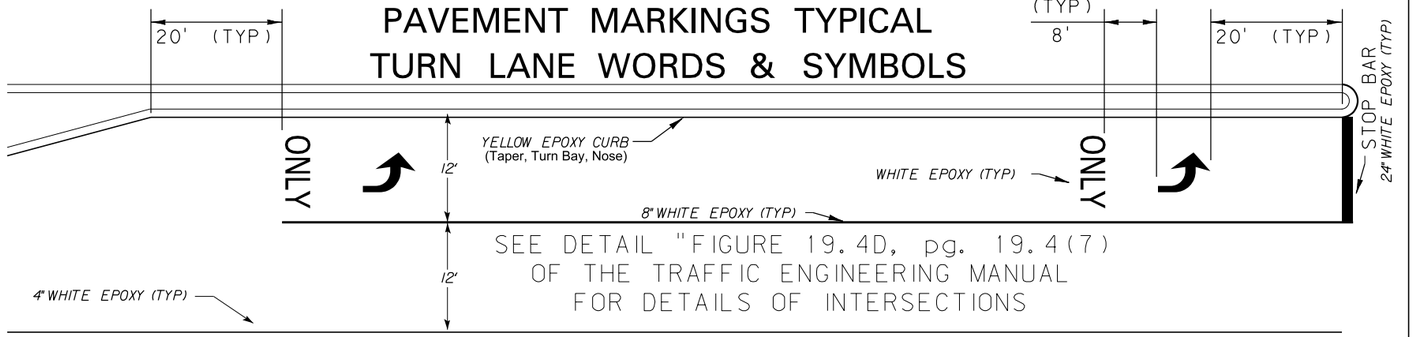
NOTE: SIGNS NOT SHOWN TO REMAIN "USE AS IS"
UNLESS DIRECTED OTHERWISE BY PROJECT MANAGER.

3	MONTANA Department of Transportation	C:\DGN\9571000sipln001.dgn	DESIGNED BY:	STEVEN MORANO	11/2023	SIGNING PLANS	SIGNALS-DILLON	CMDO STWD(611)
2		5/16/2024						
1		8:59:55 AM CPS - U4484	CHECKED BY:	NATHAN STYREN	12/2023	BEAVERHEAD COUNTY	UPN 9571000	S5

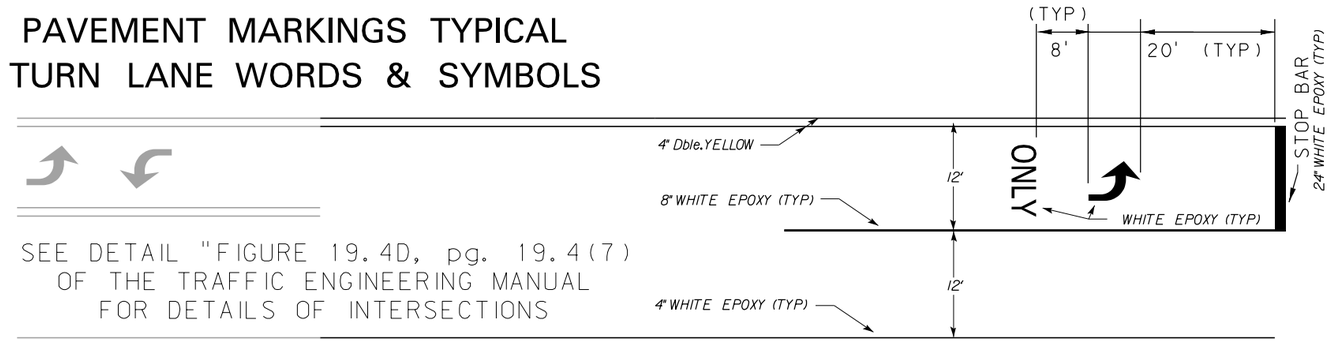
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DETAILS

TYPICAL MEDIAN DETAIL



MEDIAN DETAIL "E"

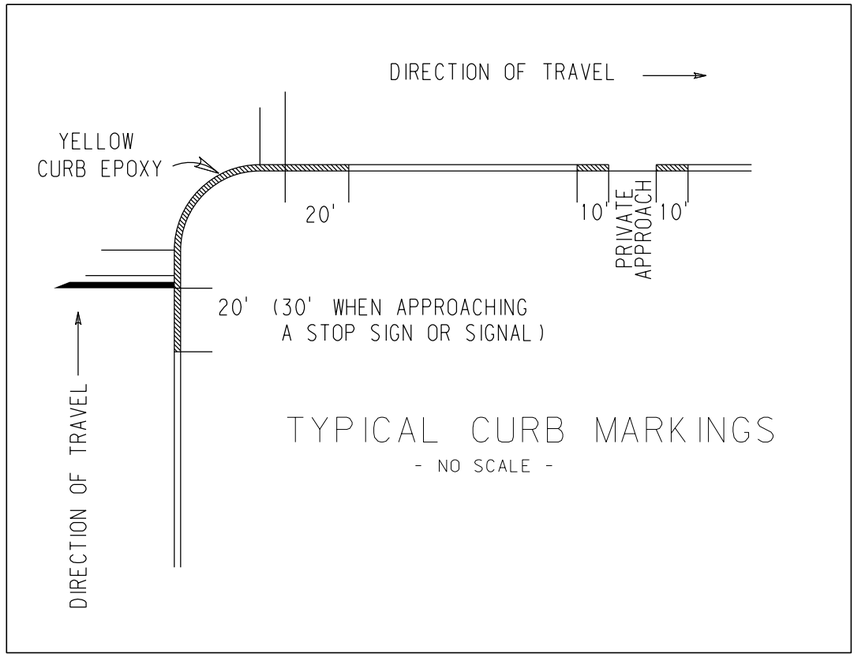


NOTES:

EXTEND CROSSWALK LINES TO CURB.

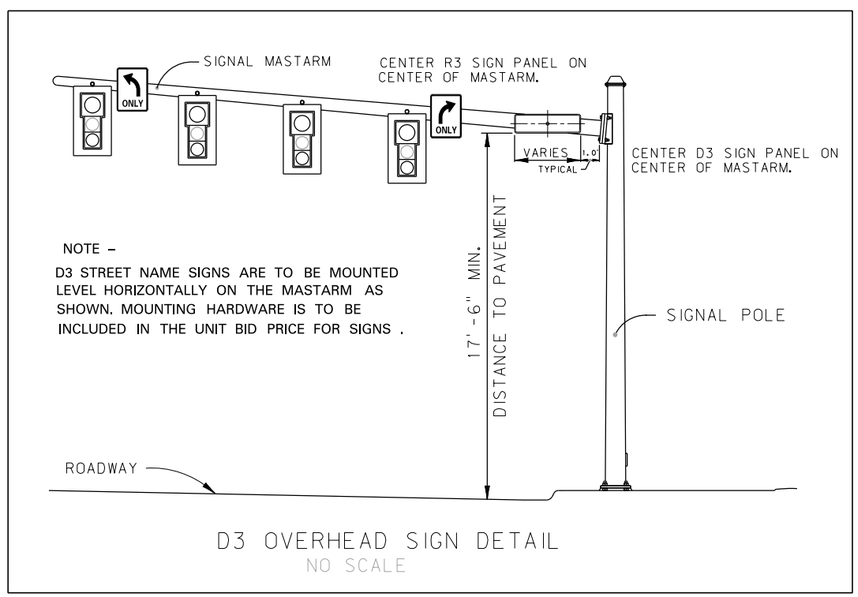
APPLY YELLOW CURB EPOXY TO ALL MEDIAN NOSES, ALONG LEFT TURN BAYS AND LEFT TURN BAY TAPERS.

APPLY WHITE CURB EPOXY TO THE RAISED ISLAND SEPARATING TRAFFIC FLOW IN THE SAME DIRECTION



TYPICAL CURB MARKINGS

- NO SCALE -



D3 OVERHEAD SIGN DETAIL

NO SCALE

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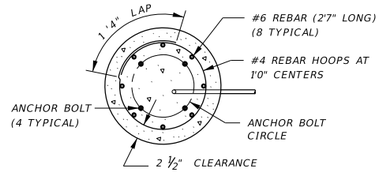
DETAILS

ELECTRICAL QUANTITY SUMMARY

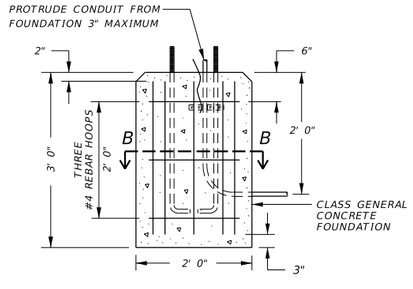
	ITEM NO.	MATERIAL	TOTAL	UNIT
	616343920	CONDUIT-PLASTIC 2 IN	90	LNFT
	617000000	FOUNDATION-CONCRETE	1.5	CUYD
	617033414	CABLE-COPPER 7AWG14-600V	550	LNFT
	617123110	CABLE-COPPER AWG10-600V	50	LNFT
	617503130	SIG-TRAF 3 COL 1 W 12-12-12	1	EACH
	617513125	SIG-TRAF 4 COL 1 W 12-12-12-12	2	EACH
	617553020	SIG-PEDESTRIAN TYPE 2	14	EACH
*	617605040	INSTALL CONTRLR/TRAF-ACTUAT	1	EACH
	617673100	SIG STANDARD TYPE 1-100	5	EACH
	617763500	DETECTOR RADAR/PRESENCE	7	EACH
	617763510	DETECTOR RADAR/ADVANCE	1	EACH
	617781000	REMOVE AND SALVAGE MISC ELECTRICAL	1	LS
	617903255	PUSH BUTTON-PEDESTRIAN-TACTILE	13	EACH

* - INDICATES STATE FURNISHED MATERIAL

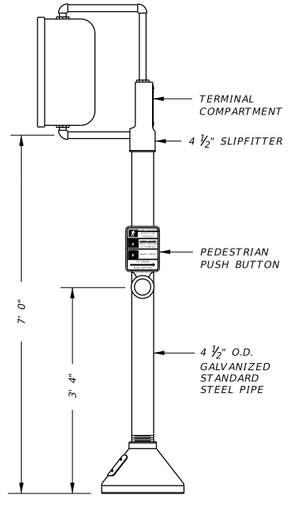
USE GRADE 60 REINFORCING STEEL



SECTION B-B



TYPE I-100

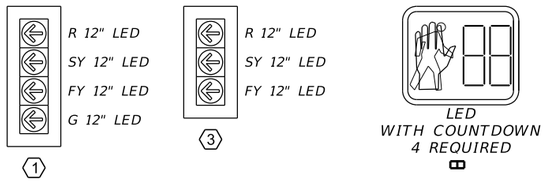


TYPE I-100

3	MONTANA Department of Transportation	C:\DGN\9571000eldet001.dgn		Joe DeGroat	6/2023	ELECTRICAL PLANS	SIGNALS-DILLON / CMDO STWD (611)
2		5/30/2024		Dan Cunningham	6/2023		
1		4:58:48 PM CPS - U7325				BEAVERHEAD COUNTY	9571000 / SHEET E1

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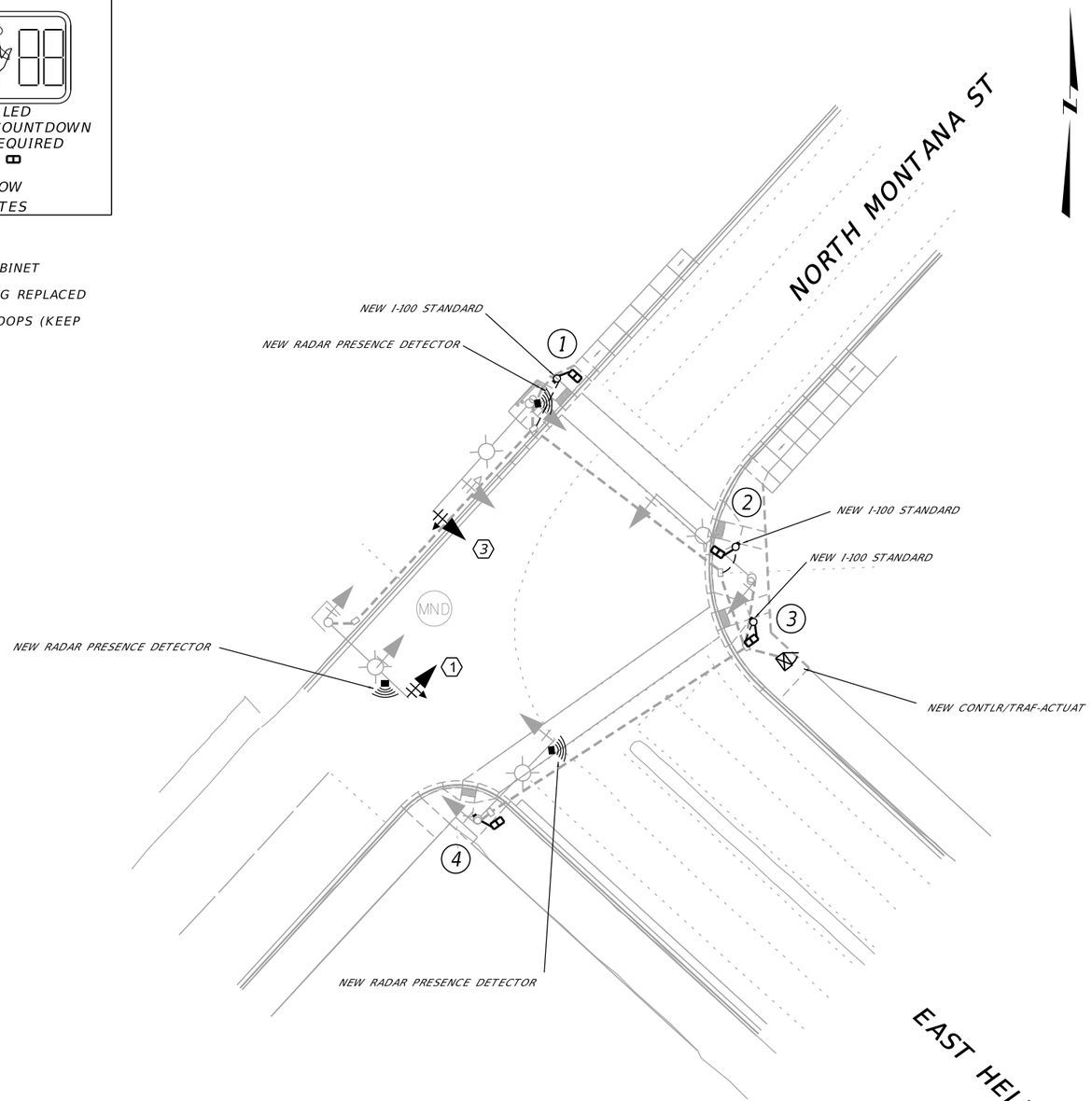
SIGNAL INDICATIONS



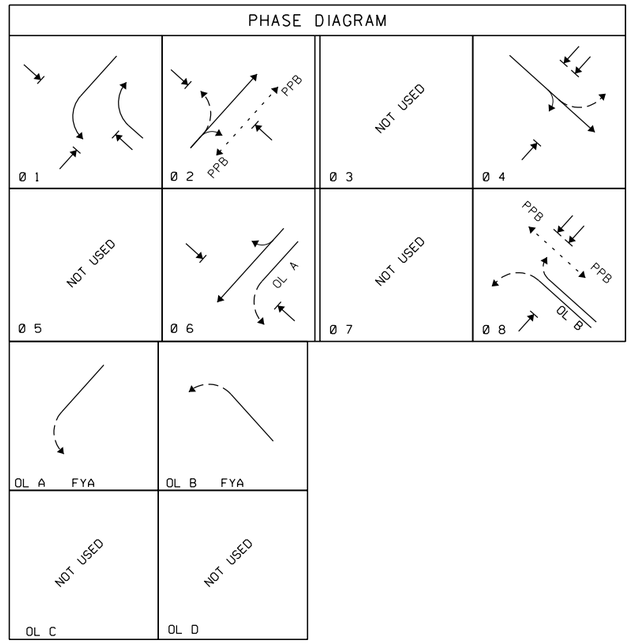
SY = STEADY YELLOW FY = FLASHING YELLOW
PROVIDE A REFLECTIVE BORDER ON BACKPLATES

4 NEW APS PEDESTRIAN PUSH BUTTONS, ONE WITH RIGHT ARROW, AND THREE WITH LEFT ARROW.

REMOVE AND SALVAGE EXISTING SIGNAL CONTROLLER AND CABINET
REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTONS
REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL HEADS BEING REPLACED
REMOVE AND SALVAGE EXISTING PEDESTRIAN DISPLAYS
REMOVE DETECTOR LOOP CABLE FOR PHASE 1 AND PHASE 8 LOOPS (KEEP DETECTOR LOOP CABLE FOR PHASE 4 LOOPS)
REMOVE WIRING FOR EXISTING PEDESTRIAN DISPLAYS



PHASE DIAGRAM



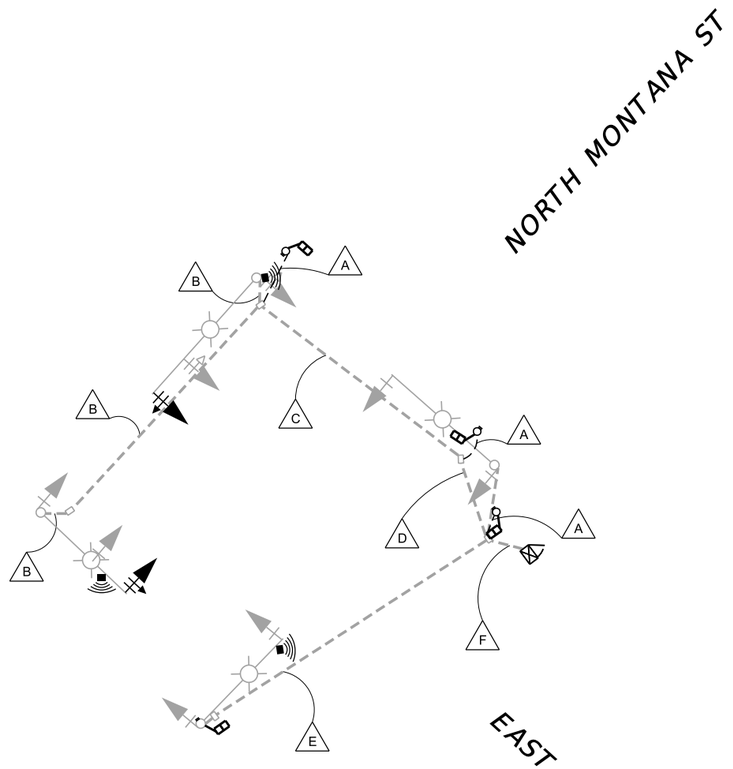
POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	PEDESTRIAN PUSH BUTTON ← LEFT ARROW	PEDESTRIAN PUSH BUTTON → RIGHT ARROW	E OR X COORDINATE	N OR Y COORDINATE
1	617 673 100	1-100	BREAK AWAY	2' X 3'		1	1160715.09	369575.68
2	617 673 100	1-100	BREAK AWAY	2' X 3'		1	1160765.64	369528.01
3	617 673 100	1-100	BREAK AWAY	2' X 3'		1	1160770.69	369506.74
4	EXISTING	EXISTING	EXISTING	EXISTING	1		EXISTING	EXISTING

FOUR NEW APS PEDESTRIAN PUSH BUTTONS

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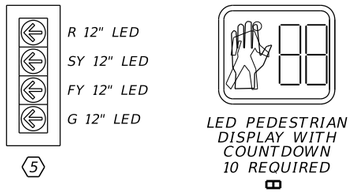
N



CONDUIT AND WIRE SCHEDULE	
A	NEW 1 OF 2" PLASTIC CONDUIT NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS) NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)
B	EXISTING CONDUIT NEW 1 OF RADAR DETECTOR CABLE
C	EXISTING CONDUIT NEW 2 OF RADAR DETECTOR CABLE NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
D	EXISTING CONDUIT NEW 2 OF RADAR DETECTOR CABLE NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
E	EXISTING CONDUIT NEW 1 OF RADAR DETECTOR CABLE NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
F	EXISTING CONDUIT NEW 3 OF RADAR DETECTOR CABLE NEW 3 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)

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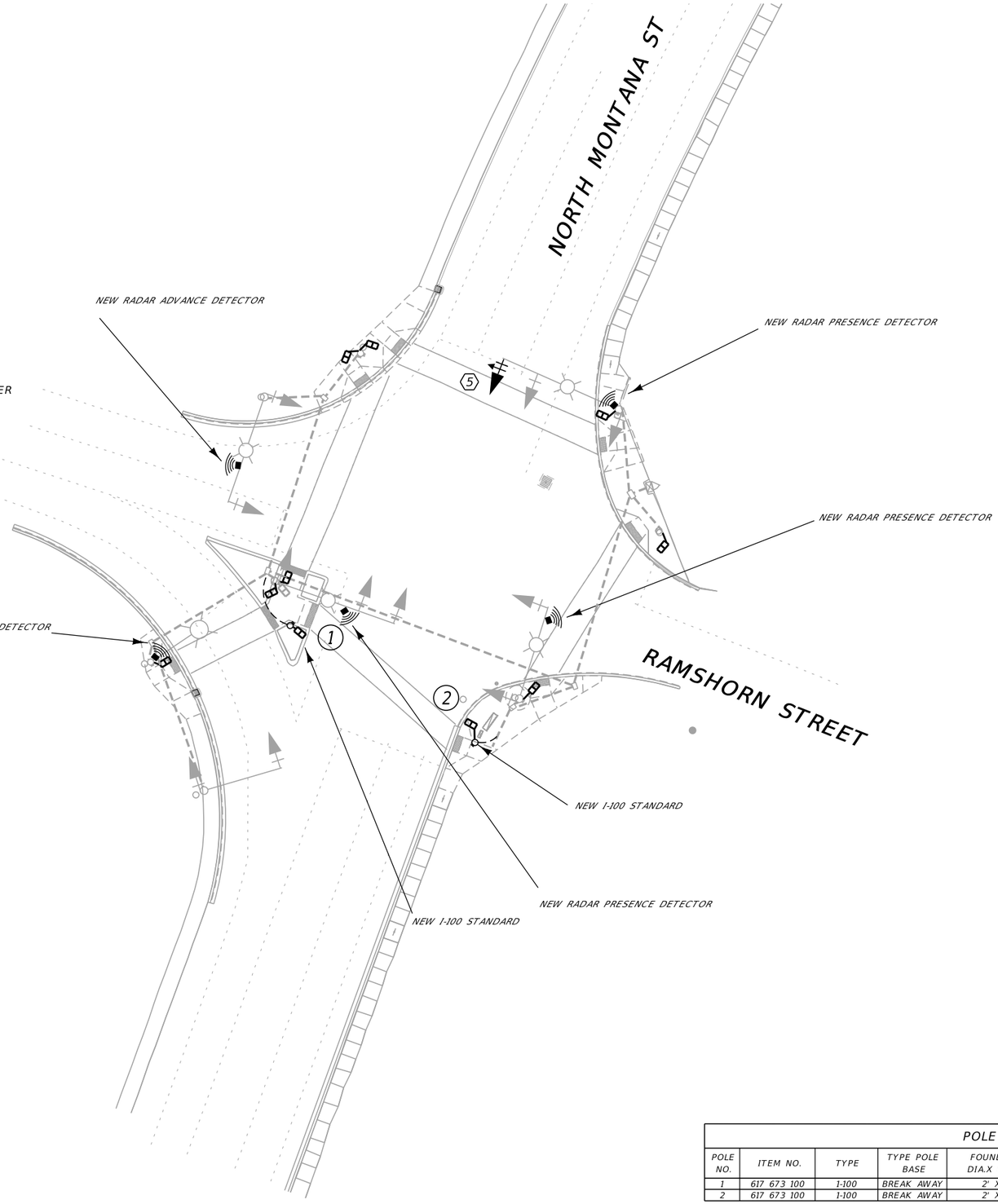
SIGNAL INDICATIONS



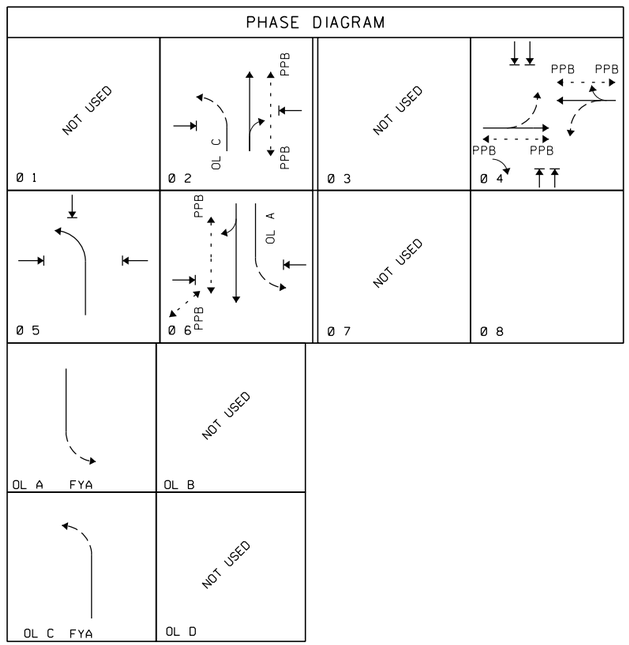
SY = STEADY YELLOW FY = FLASHING YELLOW
PROVIDE A REFLECTIVE BORDER ON BACKPLATES

9 NEW APS PEDESTRIAN PUSH BUTTONS, FOUR WITH RIGHT ARROW, FOUR WITH LEFT ARROW AND ONE WITH BI-DIRECTIONAL ARROW.

REMOVE AND SALVAGE EXISTING VIDEO DETECTOR
REMOVE AND DISPOSE OF VIDEO CABLE AND LOOP DETECTOR CABLE
REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL HEAD BEING REPLACED
REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTONS
REMOVE AND SALVAGE EXISTING PEDESTRIAN DISPLAYS
REMOVE AND SALVAGE EXISTING TYPE 1-100 PED POLE NEAR NEW POLE IN SE CORNER



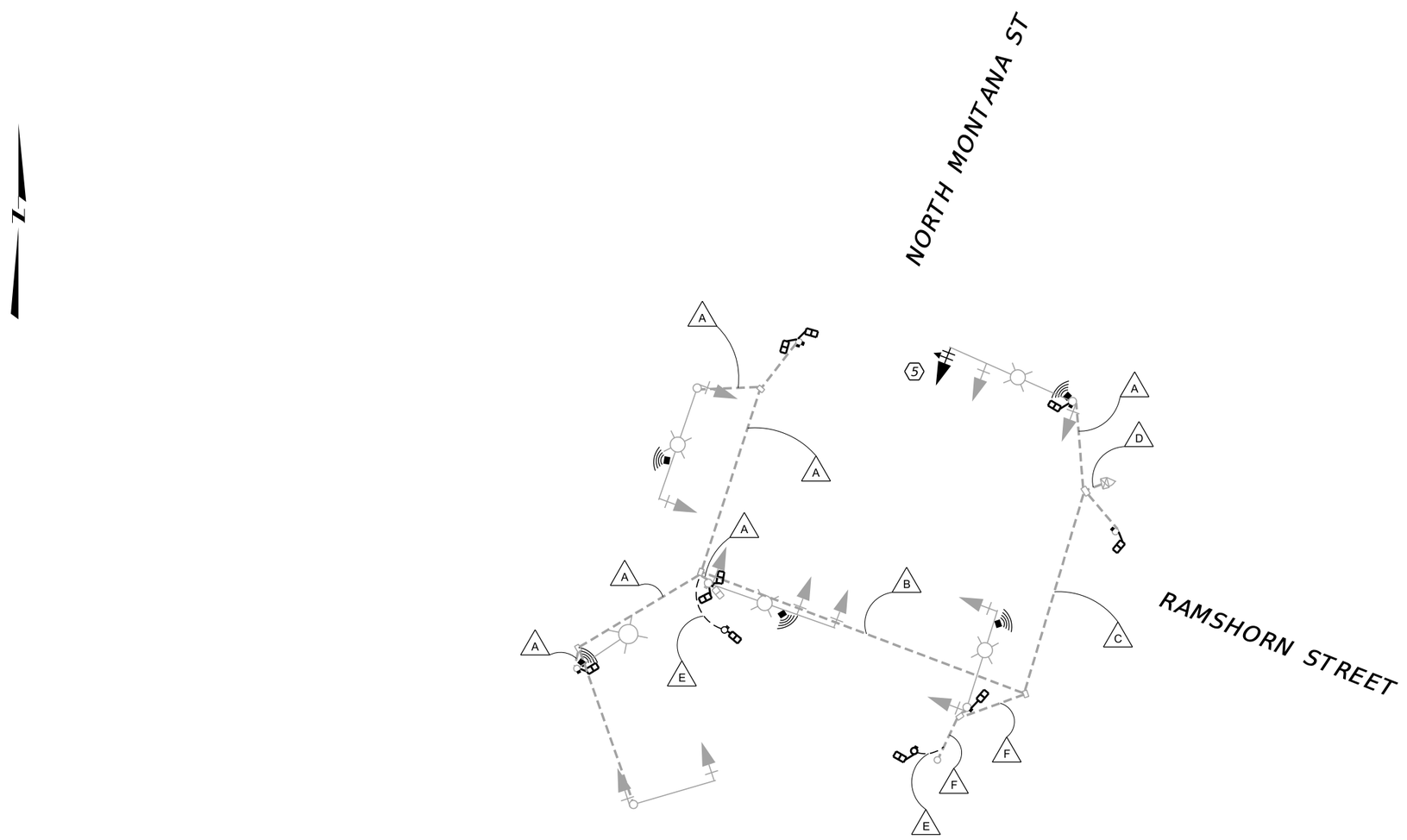
PHASE DIAGRAM



POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	PEDESTRIAN PUSH BUTTON		E OR X COORDINATE	N OR Y COORDINATE
					LEFT ARROW	RIGHT ARROW		
1	617 673 100	1-100	BREAK AWAY	2' X 3'	1		1162710.10	372691.44
2	617 673 100	1-100	BREAK AWAY	2' X 3'	1		1162769.96	372653.56

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CONDUIT AND WIRE SCHEDULE	
A	EXISTING CONDUIT NEW 1 OF RADAR DETECTOR CABLE
B	EXISTING CONDUIT NEW 3 OF RADAR DETECTOR CABLE NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
C	EXISTING CONDUIT NEW 4 OF RADAR DETECTOR CABLE NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
D	EXISTING CONDUIT NEW 5 OF RADAR DETECTOR CABLE NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
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)
F	EXISTING 2" PLASTIC CONDUIT NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS) NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)

3 2	MONTANA Department of Transportation	C:\DGN\9571000elpln002.dgn 5/30/2024 4:59:20 PM CPS - U732	DESIGNED BY REVIEWED BY CHECKED BY	Joe DeGroat Dan Cunningham	6/2023 6/2023	ELECTRICAL PLANS BEAVERHEAD COUNTY		SIGNALS-DILLON 9571000	CMDO STWD (611) SHEET E5