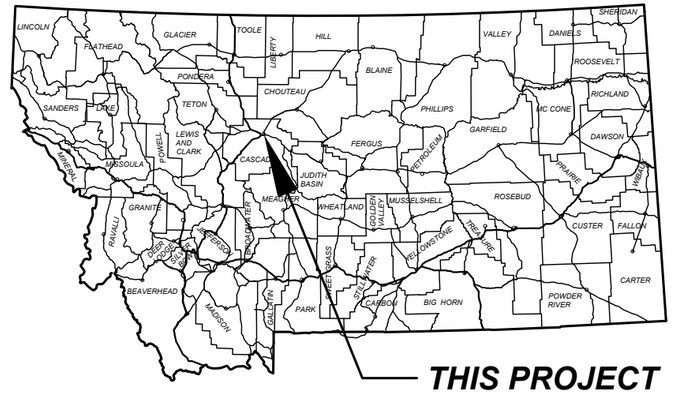
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PROJECT DESIGN DATA
RIVER DRIVE NORTH (U-5205)

PRESENT	2022	A.D.T. =	7,540
LETTING	2024	A.D.T. =	7,700
DESIGN	2044	A.D.T. =	9,390
		D.H.V. =	920
		TRUCKS =	7.9%
		V. =	30-35 MPH
		18 KIP ESAL'S =	261 DAILY
		GROWTH RATE =	1.0% ANNUAL

PROJECT DESIGN DATA
PARK DRIVE NORTH (U-5208)

PRESENT	2022	A.D.T. =	2,130
LETTING	2024	A.D.T. =	2,170
DESIGN	2044	A.D.T. =	2,650
		D.H.V. =	300
		TRUCKS =	5.0%
		V. =	30 MPH
		18 KIP ESAL'S =	21 DAILY
		GROWTH RATE =	1.0% ANNUAL

MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT UPP 5299(144)
COLD MILL & PMS OVERLAY, SEAL & COVER, SCRUB SEAL
GREAT FALLS URBAN PAVE PRES
CASCADE COUNTY

LENGTH 2.9 MILES

RP 1.7 TO RP 2.8
THIS CONTRACT (FOR U-5205)

STA. 20+90.20 ON ARRA 5210(18)=
STA. 20+90.20 BEG. UPP 5299(144)

STA. 79+94.00 END UPP 5299(144)=
STA. 79+94.00 ON ARRA 5205(24)

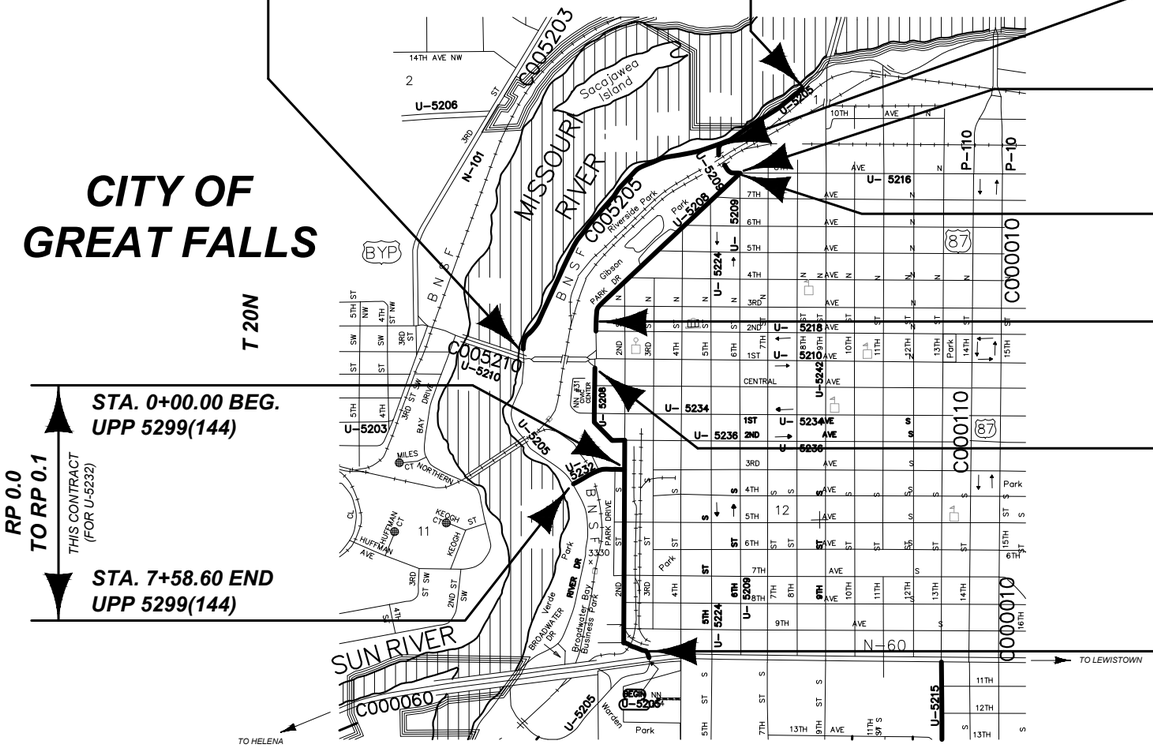
CASCADE COUNTY

SURFACING SOURCES - CONTRACTOR FURNISHED

R 3E

T 20N

CITY OF GREAT FALLS



RP 0.0 TO RP 0.1
THIS CONTRACT (FOR U-5232)

STA. 0+00.00 BEG.
UPP 5299(144)

STA. 7+58.60 END
UPP 5299(144)

STA. 105+80.50 END
UPP 5299(144)
STA. 100+00.00 BEG.
UPP 5299(144)

RP 1.3 TO RP 1.5
THIS CONTRACT (FOR U-5209)

STA. 10+51.11 ON
ARRA 5208(2)=
STA. 10+51.11 BEG.
UPP 5299(144)
STA. 42+91.59 END
UPP 5299(144)=
STA. 42+91.59 ON
ARRA 5208(2)

RP 0.0 TO RP 0.6
THIS CONTRACT (FOR U-5208)

STA. 47+96.57 ON
ARRA 5208(2)=
STA. 47+96.57 BEG.
UPP 5299(144)

RP 0.7 TO RP 1.6
THIS CONTRACT (FOR U-5208)

STA. 95+93.04 END
UPP 5299(144)=
STA. 34+27.00 ON
STPU 5299(105)

MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:

HIGHWAYS ENGINEER

DocuSigned by:
Damian Krings
354C32D8BEB041E...

MONTANA DAMIAN KRINGS 12113PE LICENSED PROFESSIONAL ENGINEER

6/28/2024
DATE

SHEET NO. 1

TITLE SHEET

PROJECT NAME	GREAT FALLS URBAN PAVE PRES
COUNTY	CASCADE
PROJECT ID	UPP 5299(144)
UPN	10247000

DESIGNED BY	D. BRAATEN	09/2023
REVIEWED BY	C. WARD	02/2024
CHECKED BY	J. CERECK	03/2024

MONTANA
Department of Transportation

ROAD PLANS

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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 - 3/8" AGG.	= 6.2% 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 (S & C)	= 0.075 GAL. PER SQ.YARD (UNDILUTED)
SCRUB SEAL	= 0.42 GAL. PER SQ. YARD
COVER	= 25 LBS. PER SQ.YARD

AS-BUILTS

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

U-5205	
ARRA 5210(18)	1ST AVE N-WEST OF RIVER DRIVE
ARRA 5205(24)	RIVER DR. - 1ST TO 9TH
U-5208	
ARRA 5208(2)	PARK DR-6TH ST-1STAVE-N
STPU 5299(105)	GTF URBAN MAINT PROGRAM

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING.

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.

BASIS OF CENTERLINE ALIGNMENT

CENTERLINE IS BASED ON AS-BUILT PLANS AND ISOLATED TOPOGRAPHIC SURVEYS. DO NOT USE FOR FUTURE PROJECTS.

Alignment - River Drive North

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
20+90.20	BOA	1192394.417	1521510.020	
22+18.74	PC	1192522.938	1521512.468	
25+49.77	PT	1192845.650	1521577.116	
34+74.14	PC	1193681.264	1521972.352	
42+15.83	PT	1194301.116	1522375.076	
48+56.35	PC	1194790.440	1522788.390	
48+59.15	PT	1194792.563	1522790.208	
50+44.43	PC	1194932.423	1522911.732	
57+79.95	PT	1195289.593	1523539.652	
63+06.56	PC	1195397.384	1524055.105	
65+03.34	PCC	1195449.724	1524244.730	
68+47.01	PT	1195602.294	1524552.114	
79+94.00	EOA	1196201.758	1525529.986	

Alignment - Park Drive North

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
10+51.11	BOA	1195017.546	1524603.395	
37+80.78	PC	1193185.316	1522580.017	
38+36.99	PCC	1193145.843	1522540.017	
39+63.19	PCC	1193041.305	1522470.829	
41+59.84	PT	1192851.164	1522426.330	
42+10.50	PC	1192800.545	1522424.327	
42+91.59	EOA	1192719.480	1522422.723	

SHEET NO. 2

TABLE OF CONTENTS AND NOTES

PROJECT NAME: GREAT FALLS URBAN PAVE PRES
COUNTY: CASCADE
PROJECT ID: UPP 5299(144)
UPN: 10247000

DESIGNED BY	DATE
D. BRAATEN	09/2023
REVIEWED BY	DATE
C. WARD	02/2024
CHECKED BY	DATE
J. CERECK	03/2024

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MONTANA Department of Transportation

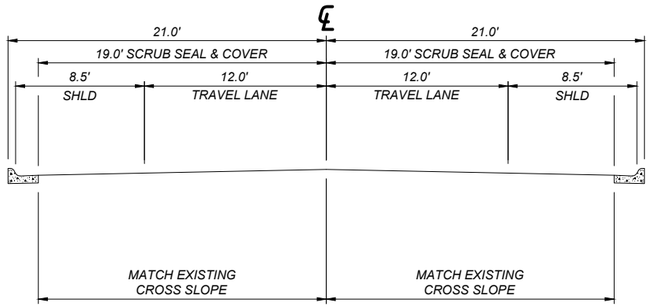
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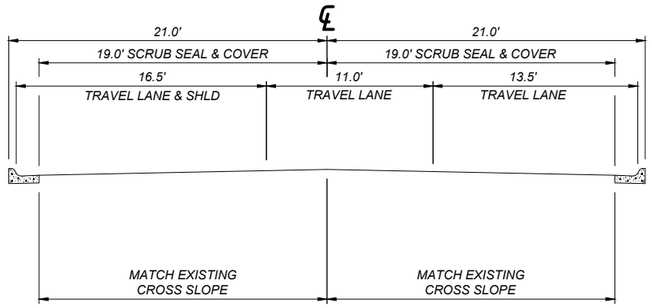
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TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 1A

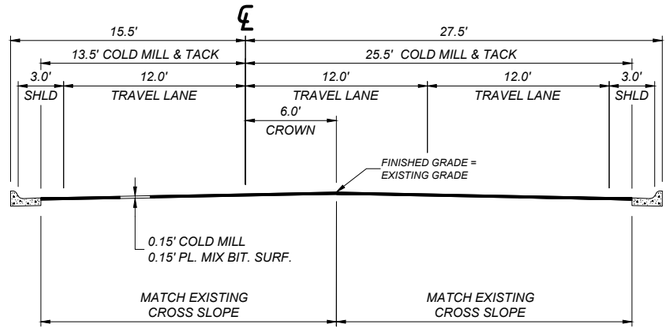


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT. SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	422
cubic yards PER STATION		tons PER STATION	0.75
tons PER STATION		gals. PER STATION	
square yards PER STATION	422		

3RD AVENUE SOUTH (U-5232)

00+00.00			B.O.P.
00+00.00	TO	4+86.00	TYP. SECT. NO. 1
4+86.00	TO	4+96.00	(AT-GRADE RAILROAD CROSSING)
4+96.00	TO	5+00.50	TYP. SECT. NO. 1
5+00.00	TO	5+10.50	(AT-GRADE RAILROAD CROSSING)
5+10.50	TO	7+08.60	TYP. SECT. NO. 1
7+08.60	TO	7+38.60	TRANS. TYP. SECT. NO. 1 TO NO. 1A
7+38.60	TO	7+58.60	TYP. SECT. NO. 1A
		7+58.60	E.O.P.

TYPICAL SECTION NO. 2



QUANTITIES					
UNIT	AGGREGATE PLANT MIX	UNIT	BITUMINOUS MATERIAL ASPHALT CEMENT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet	5.85	square yards PER STATION		433	433
cubic yards PER STATION	21.7	tons PER STATION	2.59		
tons PER STATION	41.8	gals. PER STATION		22	
square yards PER STATION					

* BASED ON 1 APPLICATION

RIVER DRIVE NORTH (U-5205)

20+90.20			B.O.P.
20+90.20	TO	22+50.00	
22+50.00	TO	23+94.50	TRANS. TYP. SECT. NO. 2 TO NO. 3

SHEET NO. 3

TYPICAL SECTIONS

PROJECT NAME GREAT FALLS URBAN PAVE PRES

COUNTY CASCADE

PROJECT ID UPP 5299(144)

UPN 10247000

DESIGNED BY	REVIEWED BY	CHECKED BY
D. BRAATEN	C. WARD	J. CERECK
09/2023	02/2024	03/2024

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MONTANA Department of Transportation

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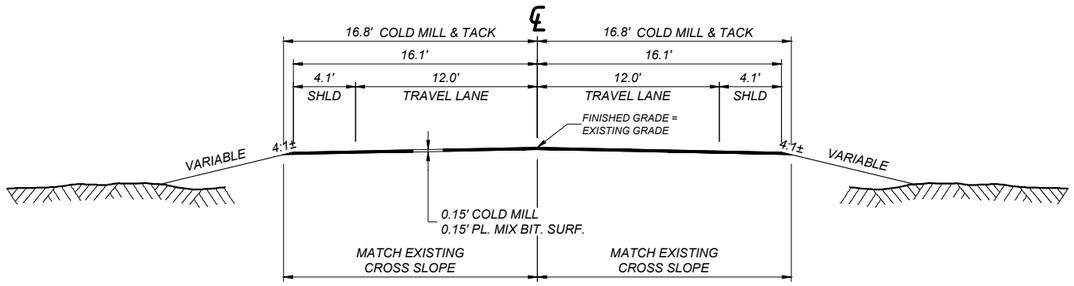
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RIVER DRIVE NORTH (U-5205)

23+94.50	TO	25+07.00	TRANS. TYP. SECT. NO. 3 TO NO. 4

SHEET NO. 4

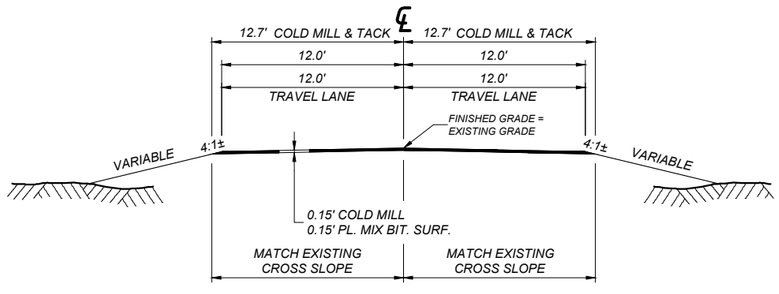
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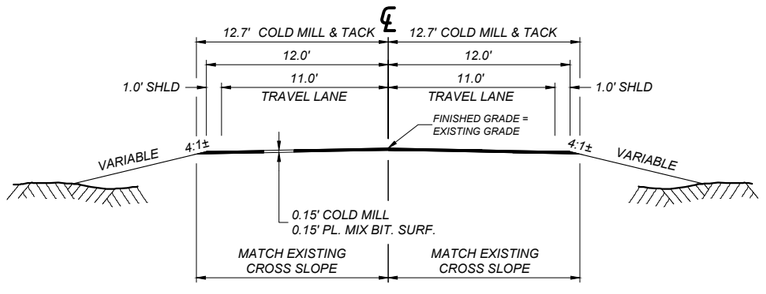
QUANTITIES					
UNIT	AGGREGATE: PLANT MIX	UNIT	BITUMINOUS MATERIAL: ASPHALT CEMENT	BITUMINOUS MATERIAL: EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet	4.94	square yards PER STATION		373	373
cubic yards PER STATION	18.3	tons PER STATION	2.19		
tons PER STATION	35.3	gals. PER STATION		19	
square yards PER STATION					

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 4



TYPICAL SECTION NO. 4A



QUANTITIES					
UNIT	AGGREGATE: PLANT MIX	UNIT	BITUMINOUS MATERIAL: ASPHALT CEMENT	BITUMINOUS MATERIAL: EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet	3.71	square yards PER STATION		282	282
cubic yards PER STATION	13.7	tons PER STATION	1.64		
tons PER STATION	26.4	gals. PER STATION		14	
square yards PER STATION					

* BASED ON 1 APPLICATION

RIVER DRIVE NORTH (U-5205)

25+07.00	TO	28+74.00	TYP. SECT. NO.4 THEN TO TYP. SECT. NO. 5
34+74.00	TO	63+26.00	TYP. SECT. NO. 4
63+26.00	TO	64+21.00	TRANS. TYP. SECT. NO. 4 TO NO. 6
68+91.00	TO	76+34.00	TRANS. TYP. SECT. NO. 4A TO NO. 7

TYPICAL SECTIONS

PROJECT NAME: GREAT FALLS URBAN PAVE PRES
COUNTY: CASCADE
PROJECT ID: UPP 5299(144)
UPN: 10247000

DESIGNED BY	REVIEWED BY	CHECKED BY
D. BRAATEN 09/2023	C. WARD 02/2024	J. CERECK 03/2024

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MONTANA Department of Transportation

ROAD PLANS

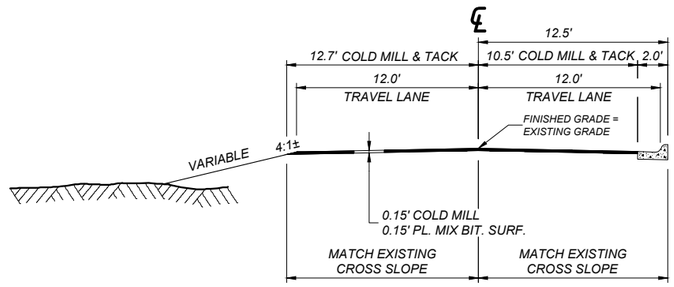
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RIVER DRIVE NORTH (U-5205)

28+74.00 TO 34+74.00 THEN TO TYP. SECT. NO. 4

TYPICAL SECTION NO. 5



QUANTITIES					
UNIT	AGGREGATE: PLANT MIX	UNIT	BITUMINOUS MATERIAL: ASPHALT CEMENT	BITUMINOUS MATERIAL: EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet	3.43	square yards PER STATION		258	258
cubic yards PER STATION	12.7	tons PER STATION	1.52		
tons PER STATION	24.5	gals. PER STATION		13	
square yards PER STATION					

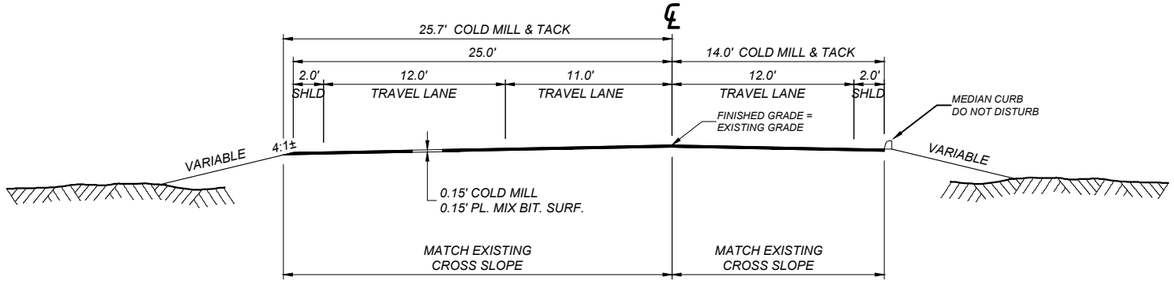
* BASED ON 1 APPLICATION

RIVER DRIVE NORTH (U-5205)

64+21.00 TO 66+21.00

66+21.00 TO 68+91.00 TRANS TYP. SECT. NO. 6 TO NO. 4A

TYPICAL SECTION NO. 6



QUANTITIES					
UNIT	AGGREGATE: PLANT MIX	UNIT	BITUMINOUS MATERIAL: ASPHALT CEMENT	BITUMINOUS MATERIAL: EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet	5.90	square yards PER STATION		441	441
cubic yards PER STATION	21.9	tons PER STATION	2.62		
tons PER STATION	42.2	gals. PER STATION		22	
square yards PER STATION					

* BASED ON 1 APPLICATION

SHEET NO. 5

TYPICAL SECTIONS

PROJECT NAME GREAT FALLS URBAN PAVE PRES

COUNTY CASCADE

PROJECT ID UPP 5299(144)

UPN 10247000

DESIGNED BY D. BRAATEN 09/2023

REVIEWED BY C. WARD 02/2024

CHECKED BY J. CERECK 03/2024

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MONTANA Department of Transportation

ROAD PLANS

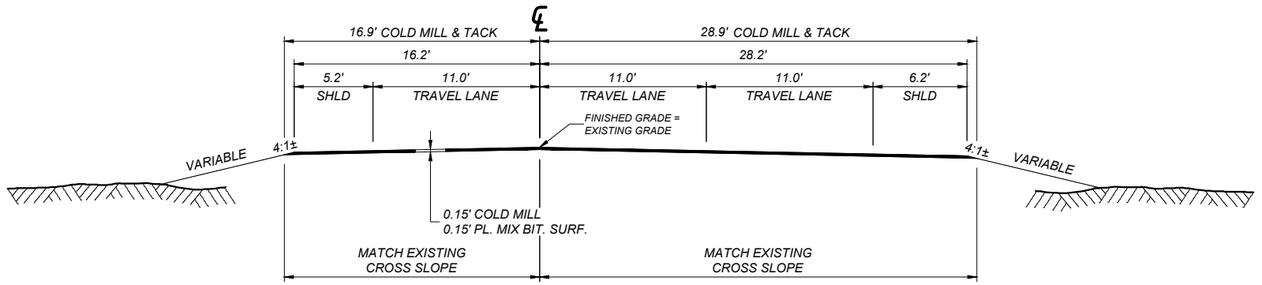
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RIVER DRIVE NORTH (U-5205)
76+34.00 TO 79+94.00 TRANS. TYP. SECT. NO. 7 TO NO. 8

SHEET NO. 6

TYPICAL SECTION NO. 7

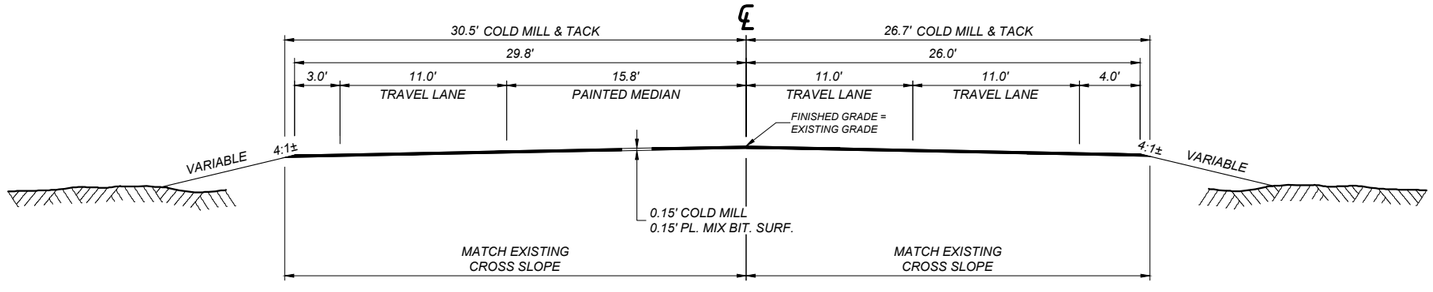


QUANTITIES					
UNIT	AGGREGATE: PLANT MIX	UNIT	BITUMINOUS MATERIAL: ASPHALT CEMENT	BITUMINOUS MATERIAL: EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet	6.77	square yards PER STATION		509	509
cubic yards PER STATION	25.1	tons PER STATION	3.00		
tons PER STATION	48.4	gals. PER STATION		25	
square yards PER STATION					

* BASED ON 1 APPLICATION

RIVER DRIVE NORTH (U-5205)
79+94.00 ONLY
79+94.00 E.O.P.

TYPICAL SECTION NO. 8



QUANTITIES					
UNIT	AGGREGATE: PLANT MIX	UNIT	BITUMINOUS MATERIAL: ASPHALT CEMENT	BITUMINOUS MATERIAL: EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet	8.48	square yards PER STATION		636	636
cubic yards PER STATION	31.4	tons PER STATION	3.75		
tons PER STATION	60.5	gals. PER STATION		32	
square yards PER STATION					

* BASED ON 1 APPLICATION

TYPICAL SECTIONS

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY	REVIEWED BY	CHECKED BY
D. BRAATEN	C. WARD	J. CERECK
09/2023	02/2024	03/2024

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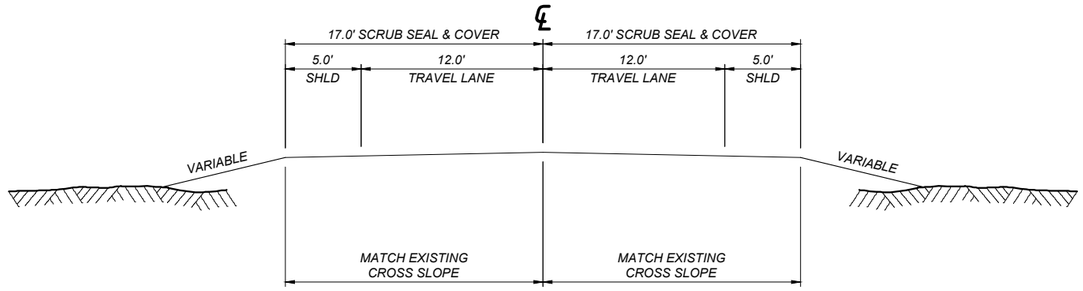
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TYPICAL SECTION NO. 9



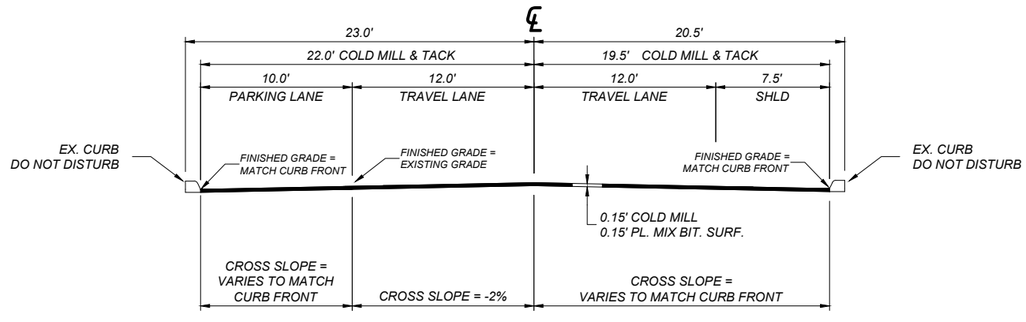
QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	SEAL
AREA square feet		square yards PER STATION	378
cubic yards PER STATION		tons PER STATION	0.67
tons PER STATION		gals. PER STATION	
square yards PER STATION	378		

* BASED ON 1 APPLICATION

6TH STREET NORTH (U-5209)

100+00.00			B.O.P.
100+00.00	TO	105+80.50	
		105+80.50	E.O.P.

TYPICAL SECTION NO. 10



QUANTITIES					
UNIT	AGGREGATE PLANT MIX	UNIT	BITUMINOUS MATERIAL ASPHALT CEMENT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet	6.23	square yards PER STATION		461	461
cubic yards PER STATION	23.1	tons PER STATION	2.76		
tons PER STATION	44.5	gals. PER STATION		23	
square yards PER STATION					

* BASED ON 1 APPLICATION

PARK DRIVE NORTH (U-5208)

10+51.11			B.O.P.
10+51.11	TO	10+68.11	
10+68.11	TO	11+32.94	TRANS. TYP. SECT. NO. 10 TO NO. 11

NOTE:
CORES INDICATE 10-14 INCHES OF EXISTING PLANT MIX. THE EXISTING CROSS SLOPE MAY BE PARABOLIC AT SOME LOCATIONS. THE DEPTH OF MILLING MAY VARY TO CONSTRUCT THE ROADWAY TO THE PROPOSED CROSS SLOPE.

SHEET NO. 7

TYPICAL SECTIONS

PROJECT NAME: **GREAT FALLS URBAN PAVE PRES**
COUNTY: **CASCADE**
PROJECT ID: **UPP 5299(144)**
UPN: **10247000**

DESIGNED BY	09/2023
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

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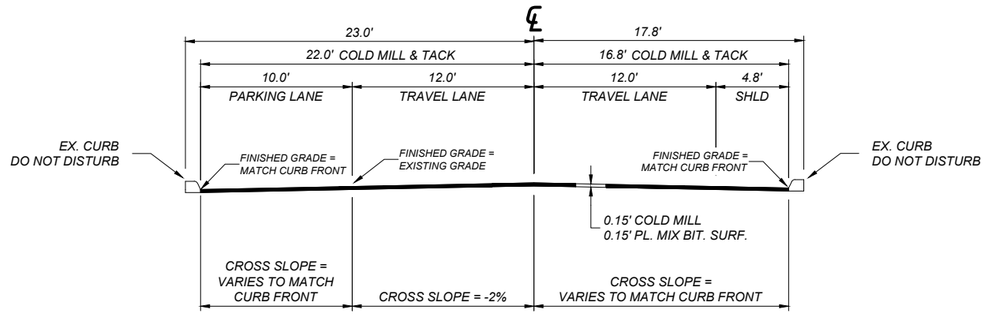
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ROAD PLANS

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TYPICAL SECTION NO. 11



QUANTITIES					
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL		COLD MILLING
	PLANT MIX		ASPHALT CEMENT	EMULSIFIED ASPHALT TACK*	
AREA square feet	5.82	square yards PER STATION		431	431
cubic yards PER STATION	21.6	tons PER STATION	2.58		
tons PER STATION	41.6	gals. PER STATION		22	
square yards PER STATION					

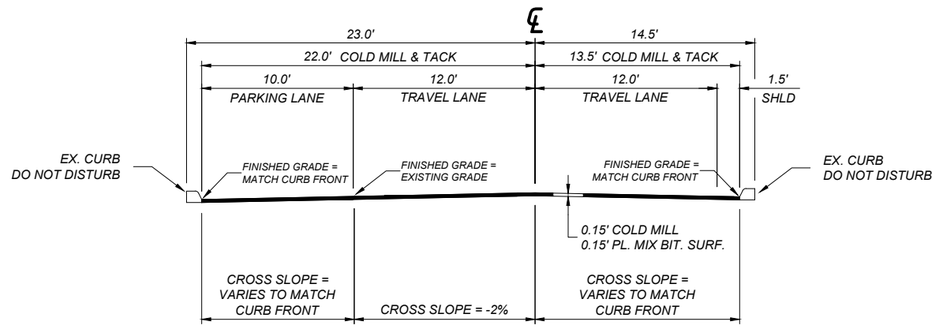
* BASED ON 1 APPLICATION

PARK DRIVE NORTH (U-5208)

11+32.94	TO	12+10.59	
12+10.59	TO	12+68.56	TRANS. TYP. SECT. NO. 11 TO NO. 12

NOTE:
CORES INDICATE 10-14 INCHES OF EXISTING PLANT MIX. THE EXISTING CROSS SLOPE MAY BE PARABOLIC AT SOME LOCATIONS. THE DEPTH OF MILLING MAY VARY TO CONSTRUCT THE ROADWAY TO THE PROPOSED CROSS SLOPE.

TYPICAL SECTION NO. 12



QUANTITIES					
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL		COLD MILLING
	PLANT MIX		ASPHALT CEMENT	EMULSIFIED ASPHALT TACK*	
AREA square feet	5.33	square yards PER STATION		394	394
cubic yards PER STATION	19.7	tons PER STATION	2.36		
tons PER STATION	38.0	gals. PER STATION		20	
square yards PER STATION					

* BASED ON 1 APPLICATION

PARK DRIVE NORTH (U-5208)

12+68.56	TO	14+19.58	
14+19.58	TO	14+90.40	TRANS. TYP. SECT. NO.12 TO NO.13

NOTE:
CORES INDICATE 10-14 INCHES OF EXISTING PLANT MIX. THE EXISTING CROSS SLOPE MAY BE PARABOLIC AT SOME LOCATIONS. THE DEPTH OF MILLING MAY VARY TO CONSTRUCT THE ROADWAY TO THE PROPOSED CROSS SLOPE.

SHEET NO. 8

TYPICAL SECTIONS

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY	09/2023
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

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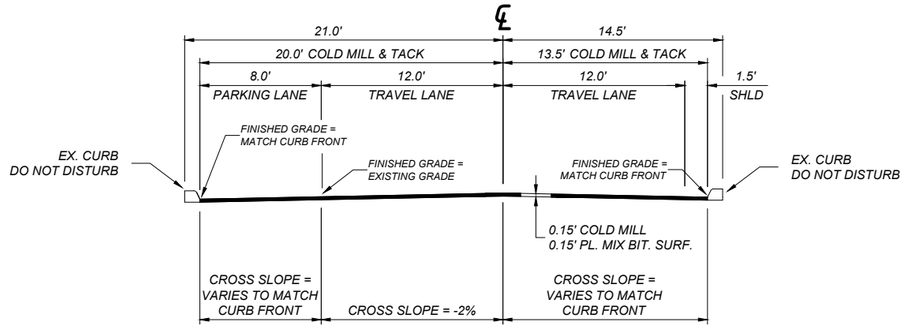
MONTANA Department of Transportation

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TYPICAL SECTION NO. 13



QUANTITIES					
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL		COLD MILLING
	PLANT MIX		ASPHALT CEMENT	EMULSIFIED ASPHALT TACK*	
AREA square feet	5.03	square yards PER STATION		372	372
cubic yards PER STATION	18.6	tons PER STATION	2.23		
tons PER STATION	35.9	gals. PER STATION		19	
square yards PER STATION					

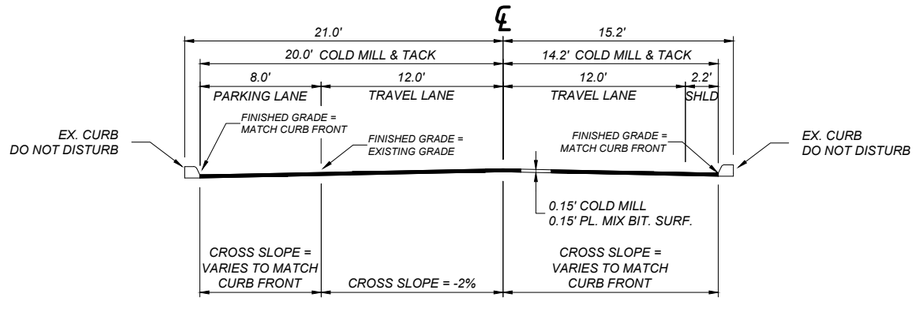
* BASED ON 1 APPLICATION

PARK DRIVE NORTH (U-5208)

14+90.40	TO	26+57.63	
26+57.63	TO	27+31.65	TRANS. TYP. SECT. NO.13 TO NO. 14

NOTE:
CORES INDICATE 10-14 INCHES OF EXISTING PLANT MIX. THE EXISTING CROSS SLOPE MAY BE PARABOLIC AT SOME LOCATIONS. THE DEPTH OF MILLING MAY VARY TO CONSTRUCT THE ROADWAY TO THE PROPOSED CROSS SLOPE.

TYPICAL SECTION NO. 14



QUANTITIES					
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL		COLD MILLING
	PLANT MIX		ASPHALT CEMENT	EMULSIFIED ASPHALT TACK*	
AREA square feet	5.13	square yards PER STATION		380	380
cubic yards PER STATION	19.0	tons PER STATION	2.27		
tons PER STATION	36.6	gals. PER STATION		19	
square yards PER STATION					

* BASED ON 1 APPLICATION

PARK DRIVE NORTH (U-5208)

27+31.65	TO	37+98.69	
37+98.69	TO	39+06.29	TRANS. TYP. SECT. NO. 14 TO NO. 15

NOTE:
CORES INDICATE 10-14 INCHES OF EXISTING PLANT MIX. THE EXISTING CROSS SLOPE MAY BE PARABOLIC AT SOME LOCATIONS. THE DEPTH OF MILLING MAY VARY TO CONSTRUCT THE ROADWAY TO THE PROPOSED CROSS SLOPE.

SHEET NO. 9

TYPICAL SECTIONS

PROJECT NAME: GREAT FALLS URBAN PAVE PRES
COUNTY: CASCADE
PROJECT ID: UPP 5299(144)
UPN: 10247000

DESIGNED BY	REVIEWED BY	CHECKED BY
D. BRAATEN	C. WARD	J. CERECK
09/2023	02/2024	03/2024

10247000RDTYP001.DWG

MONTANA Department of Transportation

ROAD PLANS

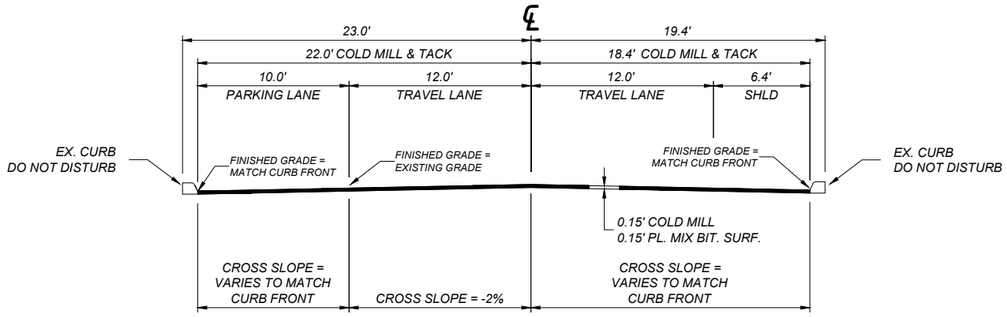
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TYPICAL SECTION NO. 15

PARK DRIVE NORTH (U-5208)

39+06.29	TO	40+23.24	
40+23.24	TO	40+93.26	TRANS. TYP. SECT. NO. 15 TO NO. 16



NOTE:
CORES INDICATE 10-14 INCHES OF EXISTING PLANT MIX. THE EXISTING CROSS SLOPE MAY BE PARABOLIC AT SOME LOCATIONS. THE DEPTH OF MILLING MAY VARY TO CONSTRUCT THE ROADWAY TO THE PROPOSED CROSS SLOPE.

QUANTITIES

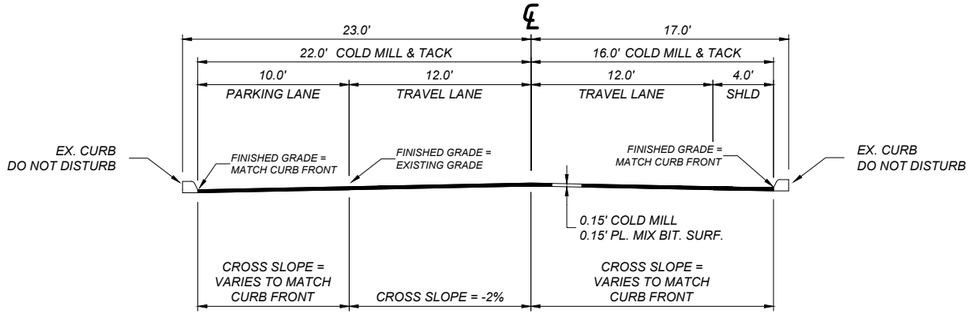
UNIT	PLANT MIX	UNIT	BITUMINOUS MATERIAL		COLD MILLING
			ASPHALT CEMENT	EMULSIFIED ASPHALT TACK*	
AREA square feet	6.06	square yards PER STATION	2.68	449	449
cubic yards PER STATION	22.4	tons PER STATION			
tons PER STATION	43.2	gals. PER STATION		22	
square yards PER STATION					

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 16

PARK DRIVE NORTH (U-5208)

40+93.26	TO	42+91.59	
		42+91.59	E.O.P.



NOTE:
CORES INDICATE 10-14 INCHES OF EXISTING PLANT MIX. THE EXISTING CROSS SLOPE MAY BE PARABOLIC AT SOME LOCATIONS. THE DEPTH OF MILLING MAY VARY TO CONSTRUCT THE ROADWAY TO THE PROPOSED CROSS SLOPE.

QUANTITIES

UNIT	PLANT MIX	UNIT	BITUMINOUS MATERIAL		COLD MILLING
			ASPHALT CEMENT	EMULSIFIED ASPHALT TACK*	
AREA square feet	5.70	square yards PER STATION	2.52	422	422
cubic yards PER STATION	21.1	tons PER STATION			
tons PER STATION	40.7	gals. PER STATION		21	
square yards PER STATION					

* BASED ON 1 APPLICATION

SHEET NO.
10

TYPICAL SECTIONS

PROJECT NAME: GREAT FALLS URBAN PAVE PRES
COUNTY: CASCADE
PROJECT ID: UPP 5299(144)
UPN: 10247000

DESIGNED BY	09/2023
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

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MONTANA
Department of Transportation

ROAD PLANS

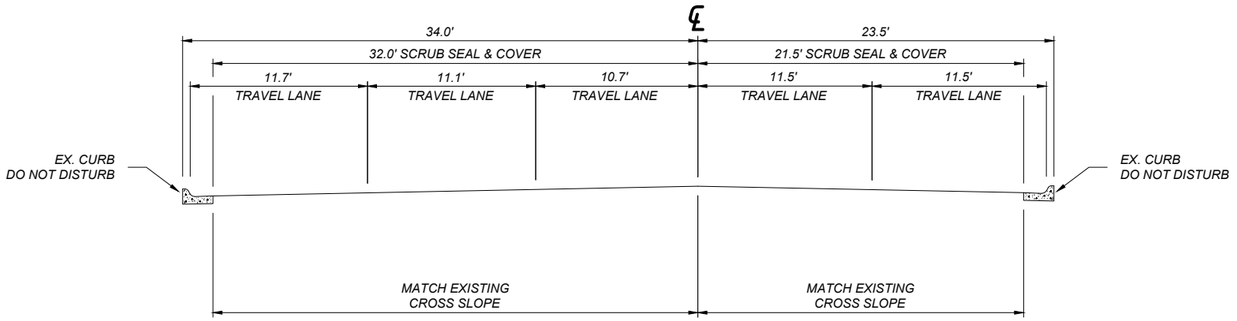
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TYPICAL SECTION NO. 17

2ND STREET (U-5208)

47+96.57			B.O.P.
47+96.57	TO	49+07.29	
49+07.29	TO	49+20.57	THEN TO TYP. SECT. NO.18

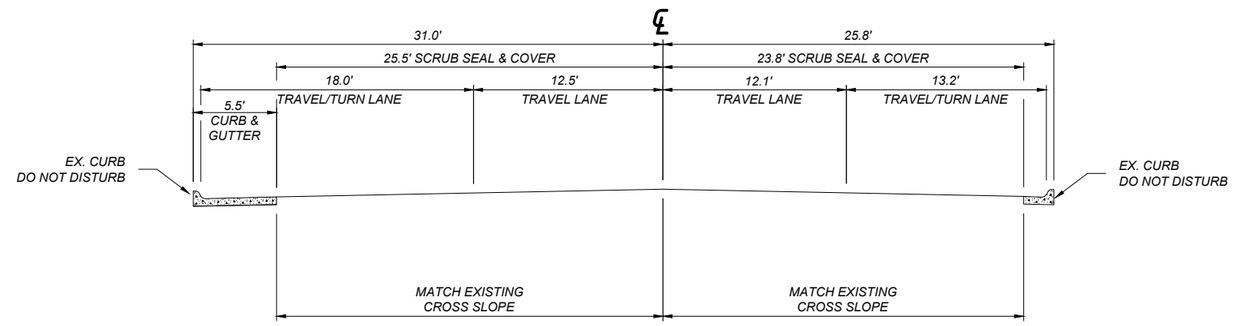


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT. SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	594
cubic yards PER STATION		tons PER STATION	1.06
tons PER STATION		gals. PER STATION	
square yards PER STATION	594		

TYPICAL SECTION NO. 18

2ND STREET (U-5208)

49+20.57	TO	50+60.67	THEN TO TYP. SECT. NO.19



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT. SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	548
cubic yards PER STATION		tons PER STATION	0.98
tons PER STATION		gals. PER STATION	
square yards PER STATION	548		

SHEET NO.
11

TYPICAL SECTIONS

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY	09/2023
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

10247000RDTYP001.DWG

MONTANA
Department of Transportation

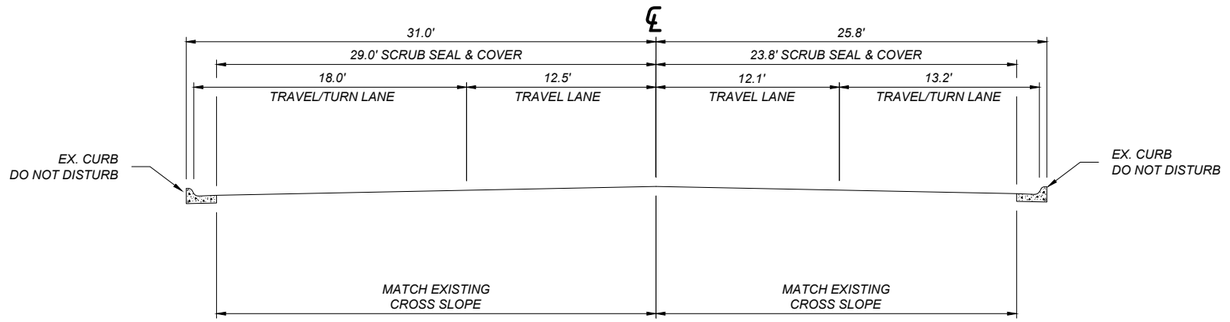
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2ND STREET (U-5208)
50+60.67 TO 51+51.00 TRANS. TYP. SECT. NO. 19 TO NO. 20

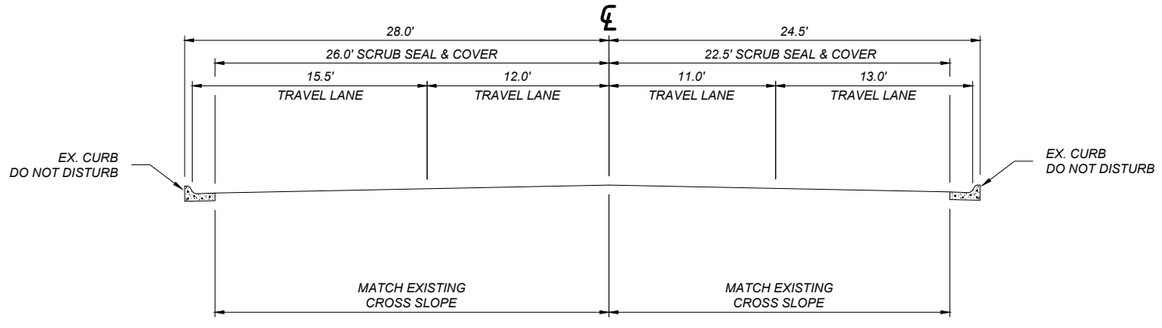
TYPICAL SECTION NO. 19



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT. SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	587
cubic yards PER STATION		tons PER STATION	1.05
tons PER STATION		gals. PER STATION	
square yards PER STATION	587		

2ND STREET (U-5208)
51+51.00 TO 53+30.33 THEN TO TYP. SECT. NO.21

TYPICAL SECTION NO. 20



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT. SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	539
cubic yards PER STATION		tons PER STATION	0.96
tons PER STATION		gals. PER STATION	
square yards PER STATION	539		

SHEET NO. 12

TYPICAL SECTIONS

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY	09/2023
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

MONTANA Department of Transportation

ROAD PLANS

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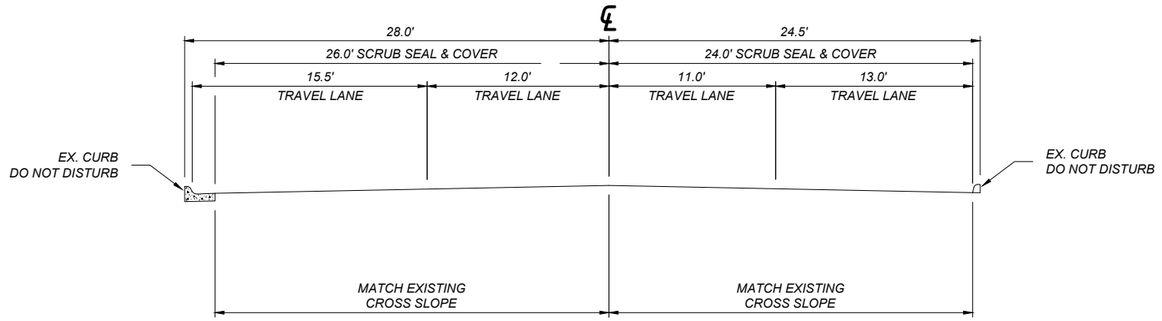
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TYPICAL SECTION NO. 21

2ND STREET (U-5208)

53+30.33	TO	54+89.91	
54+89.91	TO	55+42.12	THEN TO TYP. SECT. NO. 22

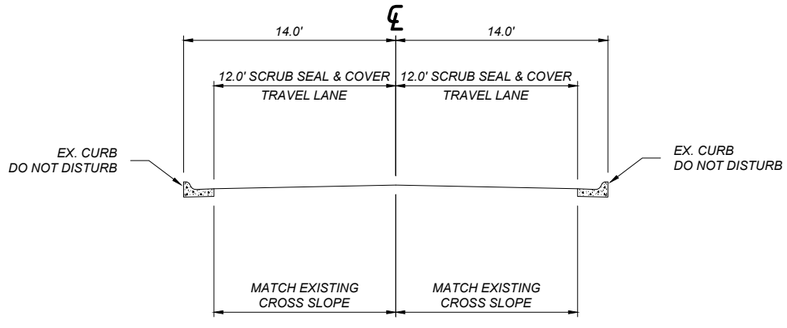


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT. SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	556
cubic yards PER STATION		tons PER STATION	0.99
tons PER STATION		gals. PER STATION	
square yards PER STATION	556		

TYPICAL SECTION NO. 22

2ND STREET (U-5208)

55+42.12	TO	60+19.14	
60+19.14	TO	60+45.54	TRANS. TYP. SECT. NO. 22 TO NO. 23



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT. SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	267
cubic yards PER STATION		tons PER STATION	0.48
tons PER STATION		gals. PER STATION	
square yards PER STATION	267		

SHEET NO. 13

TYPICAL SECTIONS

PROJECT NAME GREAT FALLS URBAN PAVE PRES

COUNTY CASCADE

PROJECT ID UPP 5299(144)

UPN 10247000

DESIGNED BY	REVIEWED BY	CHECKED BY
D. BRAATEN	C. WARD	J. CERECK
09/2023	02/2024	03/2024

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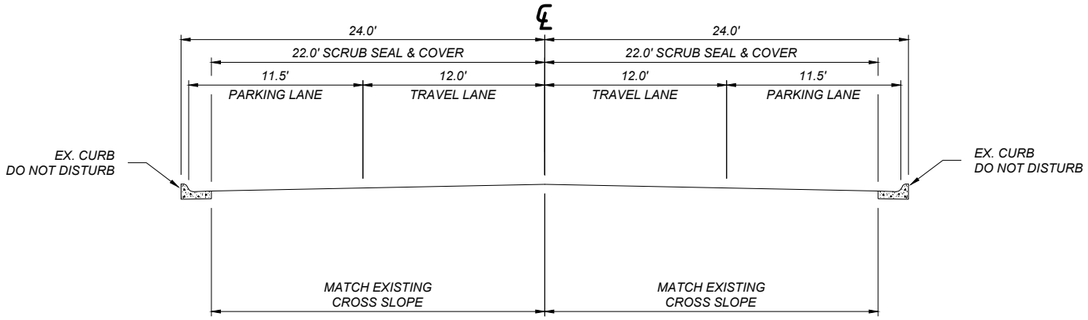
MONTANA Department of Transportation

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TYPICAL SECTION NO. 23

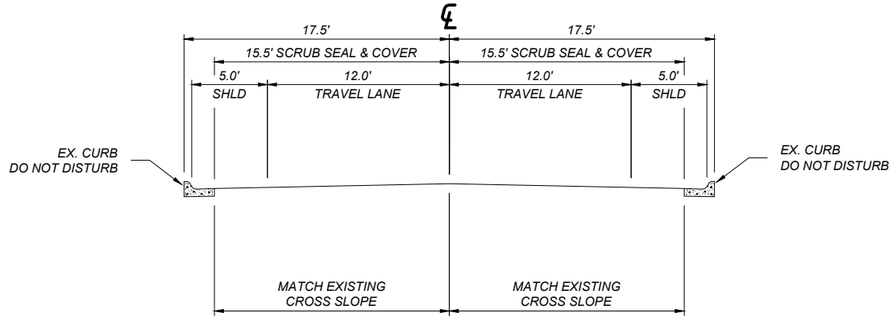


QUANTITIES			
	AGGREGATE		BIT. MAT.
UNIT	COVER	UNIT	SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	489
cubic yards PER STATION		tons PER STATION	0.87
tons PER STATION		gals. PER STATION	
square yards PER STATION	489		

2ND STREET (U-5208)

60+45.54	TO	61+45.54	
61+45.54	TO	61+65.54	TRANS. TYP. SECT. NO. 23 TO NO. 24

TYPICAL SECTION NO. 24



QUANTITIES			
	AGGREGATE		BIT. MAT.
UNIT	COVER	UNIT	SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	344
cubic yards PER STATION		tons PER STATION	0.61
tons PER STATION		gals. PER STATION	
square yards PER STATION	344		

2ND STREET (U-5208)

61+65.54	TO	62+02.54	
62+02.54	TO	62+66.04	INTERSECTION, SEE DETAIL
			THEN TO TYP. SECT. NO. 25

NOTE:
BREAK IN STATIONING FROM 62+02.54 TO 62+66.04 TO ACCOUNT FOR INTERSECTION. QUANTITIES FOR INTERSECTION ARE ADDED IN ADDITIONAL SURFACING SUMMARY.

SHEET NO. 14

TYPICAL SECTIONS

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY D. BRAATEN 09/2023
REVIEWED BY C. WARD 02/2024
CHECKED BY J. CERECK 03/2024
10247000RDTYP001.DWG

MONTANA Department of Transportation

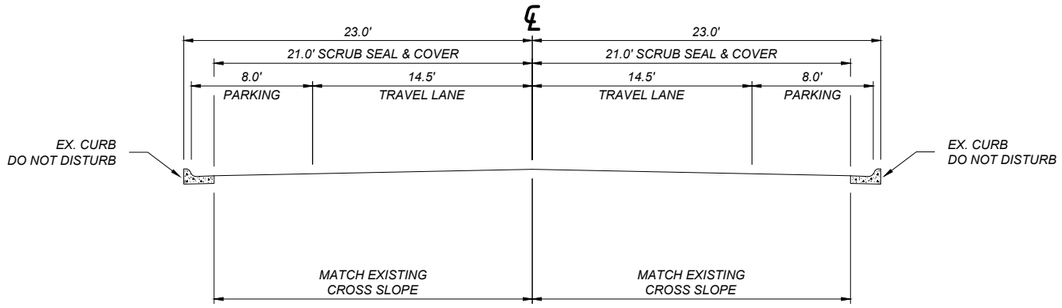
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2ND STREET (U-5208)
62+66.04 TO 90+69.04 TRANS. TYP. SECT. NO. 25 TO NO. 26

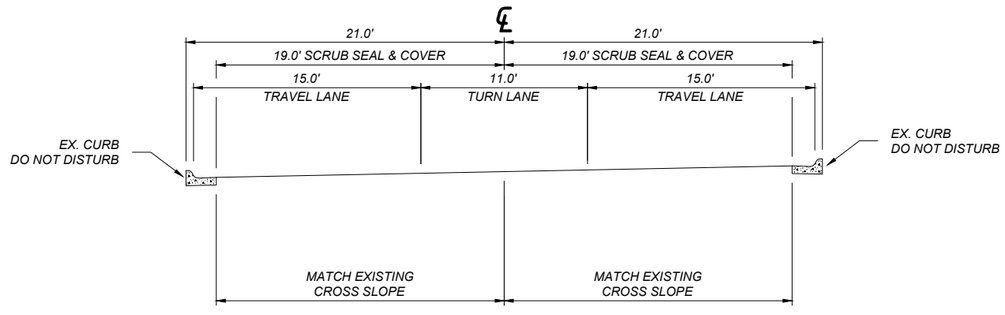
TYPICAL SECTION NO. 25



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT. SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	467
cubic yards PER STATION		tons PER STATION	0.83
tons PER STATION		gals. PER STATION	
square yards PER STATION	467		

2ND STREET (U-5208)
90+69.04 TO 95+93.04
95+93.04 E.O.P.

TYPICAL SECTION NO. 26



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT. SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	422
cubic yards PER STATION		tons PER STATION	0.75
tons PER STATION		gals. PER STATION	
square yards PER STATION	422		

SHEET NO. 15

TYPICAL SECTIONS

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY	09/2023
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

10247000RDTYP001.DWG

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 2 SCRUB SEAL	AGGREGATE tons COMMERCIAL MIX - 3/8" PG 58V-34	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL sq. yards EMULSIFIED ASPHALT FOG SEAL	REMARKS
3RD AVENUE S. (U-5232)												
+00.00	4+86.00	486.00	486.00				2,051		3.6			TYP. SECT. NO. 1
4+86.00	4+96.00	10.00			10.00	AT-GRADE RAILROAD CROSSING						
4+96.00	5+00.50	4.50	4.50				19		0.0			TYP. SECT. NO. 1
5+00.50	5+10.50	10.00			10.00	AT-GRADE RAILROAD CROSSING						
5+10.50	7+58.60	248.10	248.10				1,047		1.9			TYP. SECT. NO. 1
SUBTOTAL		758.60	738.60		20.00		3,117		5.5			
RIVER DRIVE N. (U-5205)												
20+90.20	22+50.00	159.80	159.80					67		35		TYP. SECT. NO. 2
22+50.00	23+94.50	144.50	144.50					56		30		TRANS. TYP. SECT. NO. 2 TO TYP. SECT. NO. 3
23+94.50	25+07.00	112.50	112.50					35		19		TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 4
25+07.00	28+74.00	367.00	367.00					97		51		TYP. SECT. NO. 4
28+74.00	34+74.00	600.00	600.00					147		78		TYP. SECT. NO. 5
34+74.00	63+26.00	2,852.00	2,852.00					753		399		TYP. SECT. NO. 4
63+26.00	64+21.00	95.00	95.00					33		17		TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 6
64+21.00	66+21.00	200.00	200.00					84		44		TYP. SECT. NO. 6
66+21.00	68+91.00	270.00	270.00					93		49		TRANS. TYP. SECT. NO. 6 TO TYP. SECT. NO. 4
68+91.00	76+34.00	743.00	743.00					278		145		TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 7
76+34.00	79+94.00	360.00	360.00					196		103		TRANS. TYP. SECT. NO. 7 TO TYP. SECT. NO. 8
						ADDITIONAL SURFACING					3,716	
SUBTOTAL		5,903.80	5,903.80					1,839		970	3,716	
6TH STREET N. (U-5209)												
100+00.00	105+80.50	580.50	580.50				2,194		3.9			TYP. SECT. NO. 9
						ADDITIONAL SURFACING	1,265		2.2			
SUBTOTAL		580.50	580.50				3,459		6.1			
PARK DRIVE N. (U-5208)												
10+51.11	10+68.11	17.00	17.00					8		4		TYP. SECT. NO. 10
10+68.11	11+32.94	64.83	64.83					28		15		TRANS. TYP. SECT. NO. 10 TO TYP. SECT. NO. 11
11+32.94	12+10.59	77.65	77.65					32		17		TYP. SECT. NO. 11
12+10.59	12+68.56	57.97	57.97					23		12		TRANS. TYP. SECT. NO. 11 TO TYP. SECT. NO. 12
12+68.56	14+19.58	151.02	151.02					57		30		TYP. SECT. NO. 12
14+19.58	14+90.40	70.82	70.82					26		14		TRANS. TYP. SECT. NO. 12 TO TYP. SECT. NO. 13
14+90.40	26+57.63	1,167.23	1,167.23					419		222		TYP. SECT. NO. 13
26+57.63	27+31.65	74.02	74.02					27		14		TRANS. TYP. SECT. NO. 13 TO TYP. SECT. NO. 14
27+31.65	37+98.69	1,067.04	1,067.04					391		203		TYP. SECT. NO. 14
37+98.69	39+06.29	107.60	107.60					43		22		TRANS. TYP. SECT. NO. 14 TO TYP. SECT. NO. 15
39+06.29	40+23.24	116.95	116.95					51		26		TYP. SECT. NO. 15
40+23.24	40+93.26	70.02	70.02					29		15		TRANS. TYP. SECT. NO. 15 TO TYP. SECT. NO. 16
40+93.26	42+91.59	198.33	198.33					81		42		TYP. SECT. NO. 16
SUBTOTAL		3,240.48	3,240.48					1,215		636		
2ND STREET (U-5208)												
47+96.57	49+07.29	110.72	110.72				658		1.2			TYP. SECT. NO. 17
49+07.29	49+20.57	13.28	13.28				76		0.1			TRANS. TYP. SECT. NO. 17 TO TYP. SECT. NO. 18
49+20.57	50+60.67	140.10	140.10				768		1.4			TYP. SECT. NO. 18
50+60.67	51+51.00	90.33	90.33				509		0.9			TRANS. TYP. SECT. NO. 19 TO TYP. SECT. NO. 20
51+51.00	53+30.33	179.33	179.33				967		1.7			TYP. SECT. NO. 20
53+30.33	54+89.91	159.58	159.58				887		1.6			TYP. SECT. NO. 21
54+89.91	55+42.12	52.21	52.21				290		0.5			TYP. SECT. NO. 21
55+42.12	60+19.14	477.02	477.02				1,274		2.3			TYP. SECT. NO. 22
60+19.14	60+45.54	26.40	26.40				100		0.2			TRANS. TYP. SECT. NO. 22 TO TYP. SECT. NO. 23
60+45.54	61+45.54	100.00	100.00				489		0.9			TYP. SECT. NO. 23
61+45.54	61+65.54	20.00	20.00				83		0.1			TRANS. TYP. SECT. NO. 23 TO TYP. SECT. NO. 24
61+65.54	62+02.54	37.00	37.00				127		0.2			TYP. SECT. NO. 24
62+66.04	90+69.04	2,803.00	2,803.00				13,090		23.3			TYP. SECT. NO. 25
90+69.04	95+93.04	524.00	524.00				2,211		3.9			TYP. SECT. NO. 26
						ADDITIONAL SURFACING	334		0.6			
SUBTOTAL		4,732.97	4,732.97				21,863		38.9			
TOTAL		**15,216.35**	**15,176.35**	~	**20.00**		**28,439**	**3,054**	**50.5**	**1,606**	**3,716**	

SHEET NO. 16

SUMMARY

PROJECT NAME: GREAT FALLS URBAN PAVE PRES
COUNTY: CASCADE
PROJECT ID: UPP 5299(144)
UPN: 10247000

DESIGNED BY	REVIEWED BY	CHECKED BY
D. BRAATEN	C. WARD	J. CERECK
09/2023	02/2024	03/2024

10247000RDSUM001.DWG

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 2 SCRUB SEAL	AGGREGATE tons COMMERCIAL MIX - 3/8" PG 58V-34	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	REMARKS
RIVER DRIVE N. (U-5205)												
26+73.30	27+40.21					PARKING AREA LT					291	AREA MEASURED IN CAD
37+15.81	51+99.83					PARKING AREA RT					2,350	AREA MEASURED IN CAD
51+16.39	51+81.72					PARKING AREA LT					292	AREA MEASURED IN CAD
59+13.93	59+70.47					PARKING AREA LT					261	AREA MEASURED IN CAD
62+60.48	63+17.46					PARKING AREA LT					261	AREA MEASURED IN CAD
67+01.09	67+58.39					PARKING AREA LT					261	AREA MEASURED IN CAD
SUBTOTAL											3,716	
6TH STREET N. (U-5209)												
101+18.50						TURNING LANE LT	417		0.7			SEE DETAIL
104+50.80						TURNING LANE RT	460		0.8			SEE DETAIL
104+59.13						TURNING LANE LT	388		0.7			SEE DETAIL
SUBTOTAL							1,265		2.2			
2ND STREET (U-5208)												
62+02.54	62+66.04					INTERSECTION AREA	317		0.6			SEE DETAIL
62+02.54	62+66.04					INTERSECTION RADIUS	17		0.0			AREA MEASURED IN CAD (4 FILLETS)
SUBTOTAL							**334**		**0.6**			
SUBTOTAL		~	~	~	~		**1,599**	~	**2.8**	~	**3,716**	

CURB

STATION FROM	STATION TO	linear feet CONCRETE CURB AND GUTTER LEFT	linear feet CONCRETE CURB AND GUTTER RIGHT	linear feet REMOVE CURB AND GUTTER # LEFT	linear feet REMOVE CURB AND GUTTER # RIGHT	REMARKS
RIVER DRIVE NORTH (U-5205)						
35+31.45	35+56.91		47.8		45.8	SEE DETAIL
PARK DRIVE NORTH (U-5208)						
10+61.87	10+76.55	18.3		18.3		SEE DETAIL
SUBTOTAL		**18.3**	**47.8**	**18.3**	**45.8**	
TOTAL		**66.1**		~		

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

SIDEWALK

STATION FROM	STATION TO	sq. yards CONCRETE SIDEWALK 4" LEFT	sq. yards CONCRETE SIDEWALK 4" RIGHT	sq. yards DETECTABLE WARNING DEVICES TYPE 1 LEFT	sq. yards DETECTABLE WARNING DEVICES TYPE 1 RIGHT	sq. yards REMOVE SIDEWALK # LEFT	sq. yards REMOVE SIDEWALK # RIGHT	lin. ft. WIDTH	REMARKS
RIVER DRIVE N. (U-5205)									
35+31.45	35+50.27		38.8		2.9		38.2	VARIES	SEE DETAIL
PARK DRIVE N. (U-5208)									
10+61.87	10+76.55					6.0			SEE DETAIL
SUBTOTAL		**0.0**	**38.8**	**0.0**	**2.9**	**6.0**	**38.2**	~	
TOTAL		**38.8**		**2.9**		~		~	

FOR INFORMATION ONLY - INCLUDE IN THE COST OF NEW CONCRETE SIDEWALK.

COLD MILLING *

STATION FROM	STATION TO	sq. yards COLD MILLING 0.15 ft	REMARKS
RIVER DRIVE N. (U-5205)			
20+90.20	22+50.00	692	TYP. SECT. NO. 2
22+50.00	23+94.50	582	TRANS. TYP. SECT. NO. 2 TO TYP. SECT. NO. 3
23+94.50	25+07.00	368	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 4
25+07.00	28+74.00	1,035	TYP. SECT. NO. 4
28+74.00	34+74.00	1,548	TYP. SECT. NO. 5
34+74.00	63+26.00	8,043	TYP. SECT. NO. 4
63+26.00	64+21.00	343	TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 6
64+21.00	66+21.00	882	TYP. SECT. NO. 6
66+21.00	68+91.00	976	TRANS. TYP. SECT. NO. 6 TO TYP. SECT. NO. 4
68+91.00	76+34.00	2,939	TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 7
76+34.00	79+94.00	2,061	TRANS. TYP. SECT. NO. 7 TO TYP. SECT. NO. 8
PARK DRIVE N. (U-5209)			
10+51.11	10+68.11	78	TYP. SECT. NO. 10
10+68.11	11+32.94	289	TRANS. TYP. SECT. NO. 10 TO TYP. SECT. NO. 11
11+32.94	12+10.59	335	TYP. SECT. NO. 11
12+10.59	12+68.56	239	TRANS. TYP. SECT. NO. 11 TO TYP. SECT. NO. 12
12+68.56	14+19.58	595	TYP. SECT. NO. 12
14+19.58	14+90.40	271	TRANS. TYP. SECT. NO. 12 TO TYP. SECT. NO. 13
14+90.40	26+57.63	4,342	TYP. SECT. NO. 13
26+57.63	27+31.65	278	TRANS. TYP. SECT. NO. 13 TO TYP. SECT. NO. 14
27+31.56	37+98.69	4,055	TYP. SECT. NO. 14
37+98.69	39+06.29	446	TRANS. TYP. SECT. NO. 14 TO TYP. SECT. NO. 15
39+06.29	40+23.24	525	TYP. SECT. NO. 15
40+23.24	40+93.26	305	TRANS. TYP. SECT. NO. 15 TO TYP. SECT. NO. 16
40+93.26	42+91.59	837	TYP. SECT. NO. 16
SUBTOTAL		**32,066**	
TOTAL		**32,066**	

* SEE DETAILS

SHEET NO. 17

SUMMARY

PROJECT NAME: GREAT FALLS URBAN PAVE PRES
COUNTY: CASCADE
PROJECT ID: UPP 5299(144)
UPN: 10247000

DESIGNED BY: D. BRAATEN 09/2023
REVIEWED BY: C. WARD 02/2024
CHECKED BY: J. CERECK 03/2024
10247000RDSUM001.DWG

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICA-TION #	FINAL APPLICA-TION	TOTAL
STRIPING - WHITE PAINT	gallon	100		100
STRIPING - YELLOW PAINT	gallon	102		102
WORDS & SYMBOLS - WHITE PAINT	gallon	43		43
WORDS & SYMBOLS - YELLOW PAINT	gallon	9		9
STRIPING - WHITE EPOXY	gallon		133	133
STRIPING - YELLOW EPOXY	gallon		136	136
WORDS & SYMBOLS - WHITE EPOXY	gallon		57	57
WORDS & SYMBOLS - YELLOW EPOXY	gallon		11	11
CURB MARKING - YELLOW EPOXY	gallon		86	86
FINAL SWEEP AND BROOM	course mile			2.9

BASED ON 1 APPLICATION.

SODDING *

STATION FROM	STATION TO	sq. yards SODDING	REMARKS
RIVER DRIVE N. (U-5205)			
35+39.82	35+48.27	3	RT.
PARK DRIVE N. (U-5208)			
10+60.03	10+70.41	6	LT.
TOTAL		**9**	

*AREAS MEASURED IN CAD. SEE DETAILS.

GUARDRAIL

STATION FROM	STATION TO	linear feet REMOVE GUARDRAIL LEFT	linear feet REMOVE GUARDRAIL RIGHT	REMARKS
RIVER DRIVE NORTH (U-5205)				
64+78.60	65+78.60	100.0		
SUBTOTAL		**100.0**	~	
TOTAL		**100.0**		

ADJUST VALVE BOXES

STATION	each ADJUST WATER VALVE BOX * LEFT	each ADJUST WATER VALVE BOX * RIGHT	each ADJUST GAS VALVE BOX * LEFT	each ADJUST GAS VALVE BOX * RIGHT	REMARKS
PARK DRIVE NORTH					
11+44.80	1				4.26' LT. WATER
14+90.87	1				15.60' LT. WATER
15+53.21	1				14.11' LT. WATER
15+56.80	1				16.54' LT. WATER
15+61.63	1				13.77' LT. WATER
15+86.58	1				13.19' LT. WATER
21+27.98	1				13.48' LT. WATER
21+33.59	1				21.70' LT. WATER
21+38.11	1				13.08' LT. WATER
26+47.03	1				12.96' LT. WATER
26+55.34	1				15.56' LT.WATER
26+60.64	1				13.38' LT. WATER
26+85.11	1				18.69' LT. WATER
26+85.30	1				11.12' LT. WATER
26+90.71	1				14.05' LT. WATER
28+29.04	1				12.78' LT. WATER
32+79.09	1				13.46' LT. WATER
32+84.29	1				18.64' LT. WATER
33+00.87	1				14.18' LT. WATER
38+49.10	1				13.14' LT. WATER
38+60.95	1				18.34' LT. WATER
38+65.23	1				12.48' LT. WATER
41+10.29				1	7.60' RT. GAS ##
SUBTOTAL	**22**	~	~	**1**	
TOTAL	**22**		**1**		

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

MANHOLES IN PLACE

STATION	each ADJUST SANITARY SEWER MANHOLE LEFT	each ADJUST SANITARY SEWER MANHOLE RIGHT	each ADJUST STORM MANHOLE LEFT	each ADJUST STORM MANHOLE RIGHT	REMARKS
RIVER DRIVE NORTH					
25+53.38		1			SAN. SWR. - 10.93' RT. #
28+57.47		1			SAN. SWR. - 7.98' RT. #
29+39.64		1			SAN. SWR. - 8.06' RT. #
33+40.76		1			SAN. SWR. - 4.90' RT. #
37+41.25		1			SAN. SWR. - 6.22' RT. #
41+27.04		1			SAN. SWR. - 12.28' RT. #
PARK DRIVE NORTH					
12+62.85				1	STM. - 2.00' RT.
15+80.34				1	STM. - 4.58' RT.
15+82.19				1	STM. - 12.61' RT.
21+57.27				1	STM. - 4.75' RT.
27+63.46				1	STM. - 1.84' RT.
27+67.87				1	STM. - 6.66' RT.
33+36.97				1	STM. - 2.23' RT.
33+51.88				1	STM. - 2.78' RT.
38+86.42			1		STM. - 20.57' LT.
38+98.50			1		STM. - 20.76' LT.
41+02.74			1		STM. - 19.12' LT.
SUBTOTAL	~	**6**	**3**	**8**	
TOTAL	**6**		**11**		

FUNDING STATE SHARE 75% AND CITY SHARE 25%

SHEET NO. 18

SUMMARY

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY D. BRAATEN 09/2023
REVIEWED BY C. WARD 02/2024
CHECKED BY J. CERECK 03/2024
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MONTANA Department of Transportation

ROAD PLANS

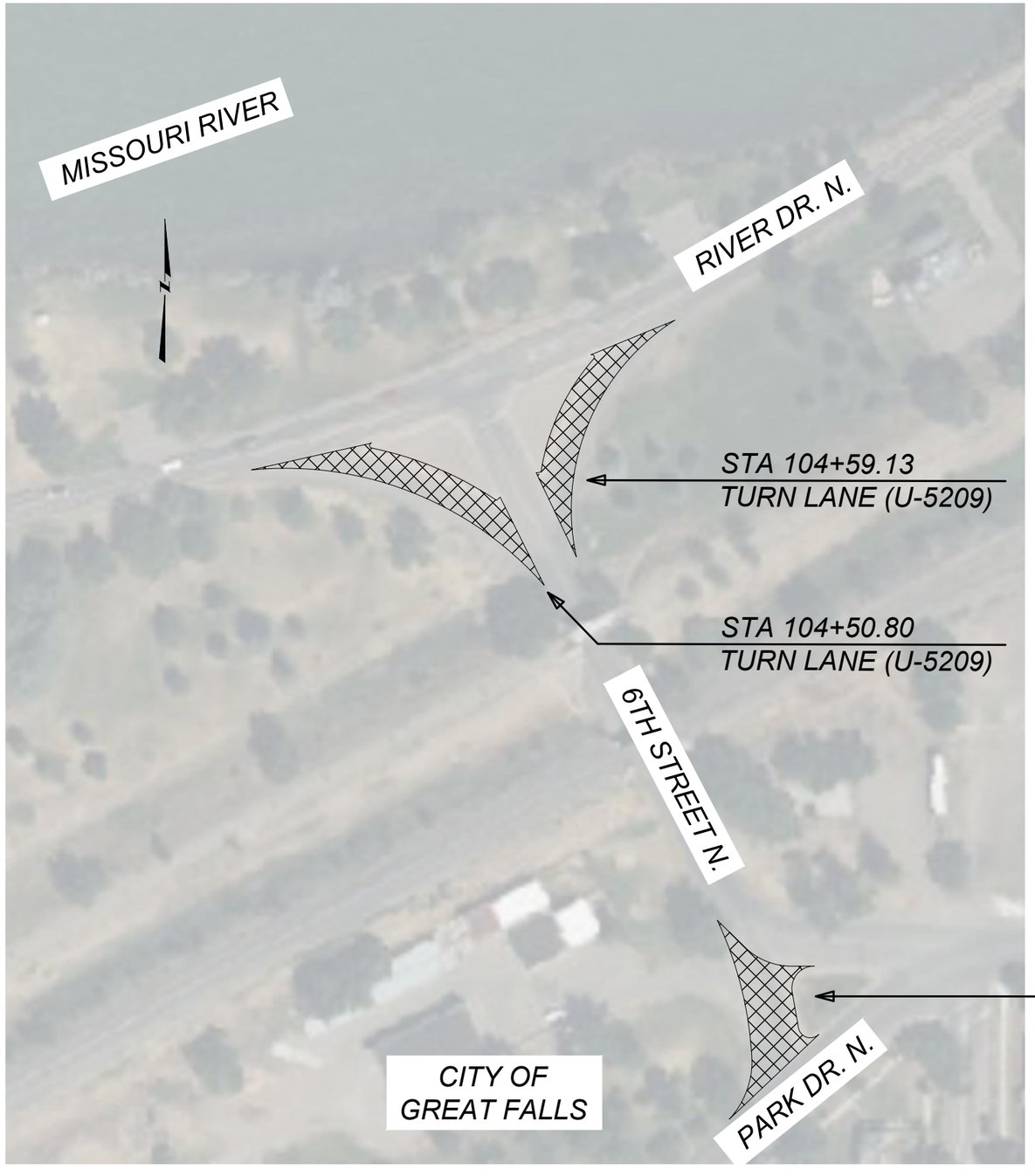
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DETAIL

ADDITIONAL SURFACING
6TH STREET NORTH (U-5209)

NO SCALE



ADDITIONAL SURFACING LEGEND

*QUANTITIES ARE MEASURED ON CADD PER AVERAGE SQUARE YARD

SCRUB SEAL LOCATIONS

QUANTITY TOTAL FOR TURN LANE 101+18.50 ON 6TH STREET NORTH (U-5209) *			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT'L SEAL
AREA square feet		square yards	417
cubic yards		tons	0.74
tons		gals.	
square yards	417		

* QUANTITIES ARE MEASURED IN CAD PER AVERAGE SQUARE YARD

QUANTITY TOTAL FOR TURN LANE 104+50.80 ON 6TH STREET NORTH (U-5209) *			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT'L SEAL
AREA square feet		square yards	460
cubic yards		tons	0.82
tons		gals.	
square yards	460		

* QUANTITIES ARE MEASURED IN CAD PER AVERAGE SQUARE YARD

QUANTITY TOTAL FOR TURN LANE 104+59.13 ON 6TH STREET NORTH (U-5209) *			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT'L SEAL
AREA square feet		square yards	388
cubic yards		tons	0.69
tons		gals.	
square yards	388		

* QUANTITIES ARE MEASURED IN CAD PER AVERAGE SQUARE YARD

SHEET NO. 19

ADDITIONAL SURFACING
6TH STREET NORTH (U-5209)
DETAIL

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY	09/2023
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

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MONTANA
Department of Transportation

ROAD PLANS

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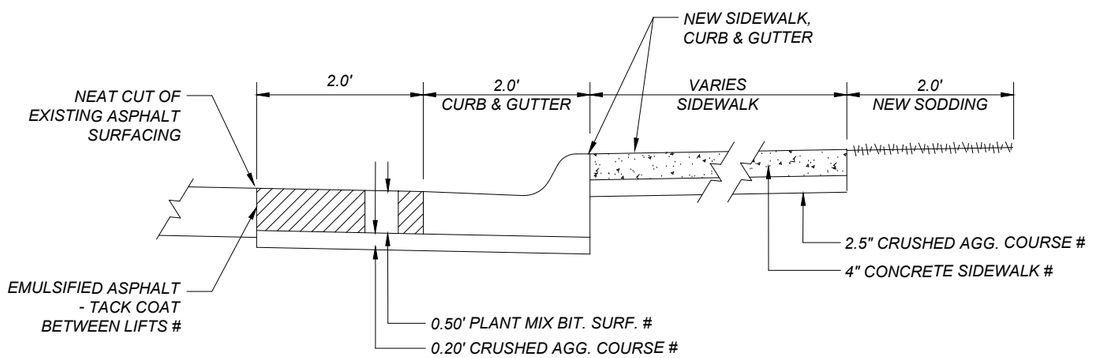
DETAIL

NEW CURB & GUTTER AND SIDEWALK

NO SCALE

RIVER DRIVE NORTH
35+31.45 TO 35+56.91

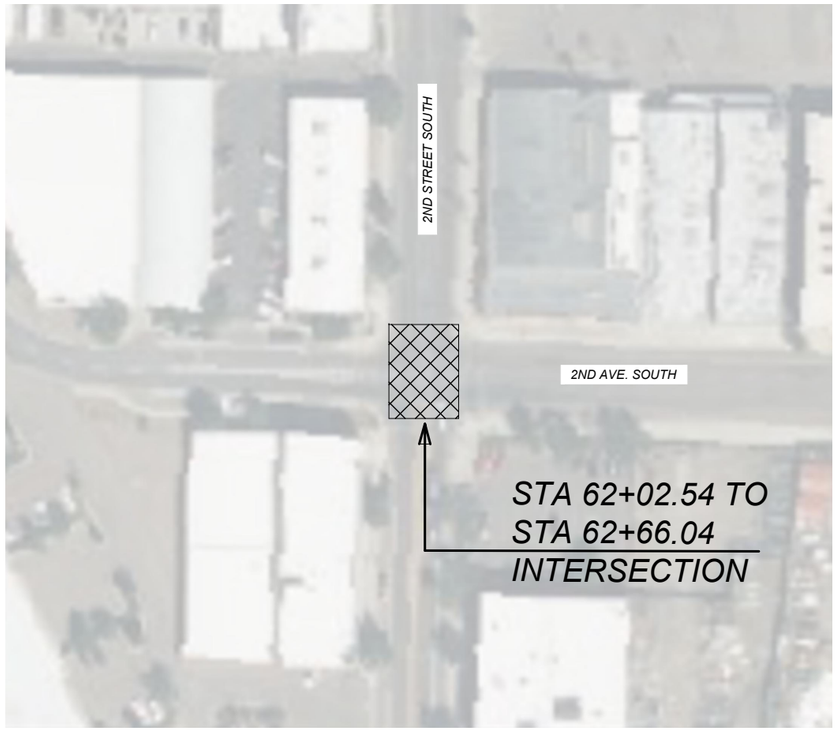
PARK DRIVE NORTH
10+61.87 TO 10+76.55



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

ADDITIONAL SURFACING 2ND STREET SOUTH (U-5208)

NO SCALE



QUANTITY TOTAL FOR INTERSECTION 62+48.54 ON 2ND STREET SOUTH (U-5208) *			
UNIT	AGGREGATE COVER	UNIT	BIT. MAT'L SEAL
AREA square feet		square yards	317
cubic yards		tons	0.57
tons		gals.	
square yards	317		

* QUANTITIES ARE MEASURED IN CAD PER AVERAGE SQUARE YARD

SHEET NO. 20

ADDITIONAL SURFACING 2ND STREET SOUTH (U-5208) AND NEW CURB AND GUTTER DETAILS

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY D. BRAATEN 09/2023
REVIEWED BY C. WARD 02/2024
CHECKED BY J. CERECK 03/2024

MONTANA Department of Transportation

ROAD PLANS

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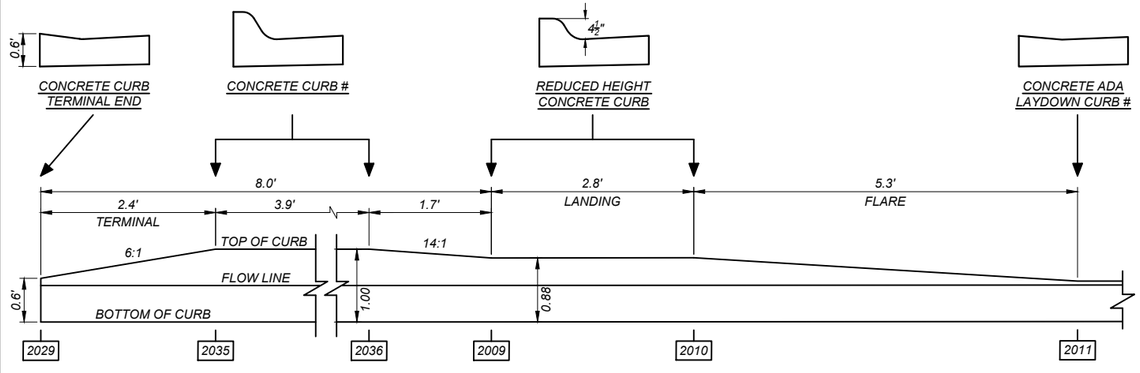
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DETAIL

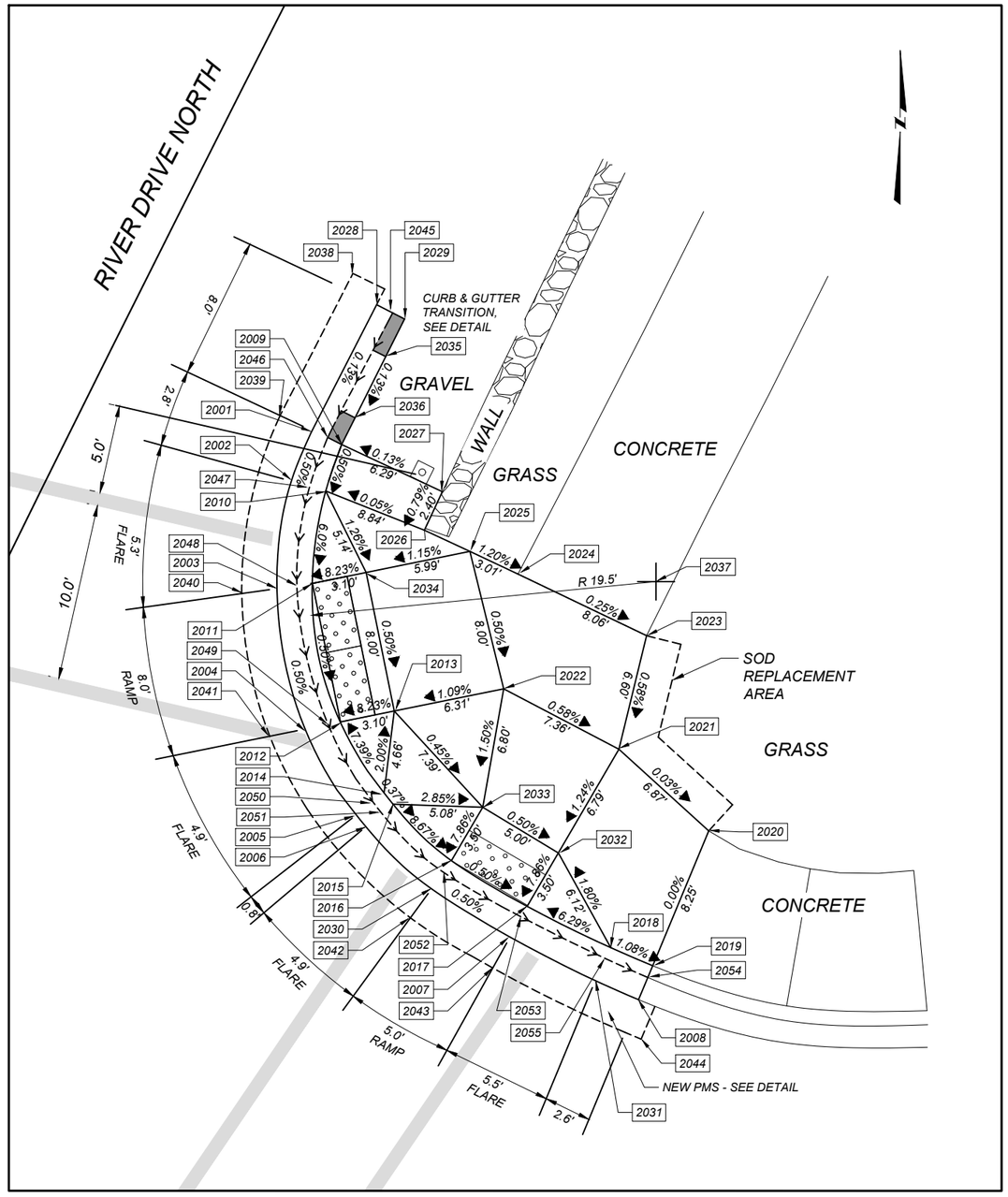
COORDINATE TABLE						
Point Number	Northing	Easting	Elevation	Station	Offset	Description
2001	1,193,744.346'	1,522,016.269'	3,314.99'	35+50.21	12.22' RT.	FG
2002	1,193,741.507'	1,522,015.108'	3,314.98'	35+47.13	12.45' RT.	FG
2003	1,193,735.425'	1,522,014.279'	3,314.95'	35+41.29	14.41' RT.	FG
2004	1,193,727.487'	1,522,015.881'	3,314.91'	35+34.84	19.36' RT.	FG
2005	1,193,722.633'	1,522,018.778'	3,314.88'	35+31.73	24.10' RT.	FG
2006	1,193,721.968'	1,522,019.318'	3,314.88'	35+31.37	24.88' RT.	FG
2007	1,193,715.724'	1,522,027.468'	3,314.83'	35+29.32	34.94' RT.	FG
2008	1,193,712.185'	1,522,034.736'	3,314.79'	35+29.34	43.03' RT.	FG
2009	1,193,743.577'	1,522,017.947'	3,315.31'	35+50.27	14.07' RT.	TBC, PI
2010	1,193,740.947'	1,522,017.044'	3,315.29'	35+47.50	14.43' RT.	TBC
2011	1,193,735.726'	1,522,016.297'	3,314.97'	35+42.46	16.09' RT.	TBC
2012	1,193,727.892'	1,522,017.883'	3,314.93'	35+36.09	20.98' RT.	TBC
2013	1,193,728.507'	1,522,020.921'	3,315.19'	35+38.00	23.43' RT.	FS
2014	1,193,723.880'	1,522,020.345'	3,315.28'	35+33.56	24.96' RT.	TBC
2015	1,193,723.240'	1,522,020.851'	3,315.28'	35+33.20	25.69' RT.	TBC
2016	1,193,720.049'	1,522,024.159'	3,314.88'	35+31.78	30.07' RT.	TBC
2017	1,193,717.460'	1,522,028.434'	3,314.85'	35+31.33	35.05' RT.	TBC, PC
2018	1,193,715.128'	1,522,033.161'	3,315.24'	35+31.32	40.32' RT.	TBC
2019	1,193,714.106'	1,522,035.539'	3,315.21'	35+31.45	42.90' RT.	TBC
2020	1,193,721.729'	1,522,038.703'	3,315.21'	35+39.82	42.38' RT.	FS
2021	1,193,726.350'	1,522,033.626'	3,315.21'	35+41.74	35.78' RT.	FS
2022	1,193,729.759'	1,522,027.107'	3,315.26'	35+41.91	28.42' RT.	FS
2023	1,193,732.767'	1,522,035.187'	3,315.25'	35+48.27	34.32' RT.	FS
2024	1,193,736.249'	1,522,027.918'	3,315.27'	35+48.15	26.26' RT.	FS
2025	1,193,737.535'	1,522,025.201'	3,315.30'	35+48.08	23.26' RT.	FS
2026	1,193,738.730'	1,522,022.625'	3,315.29'	35+48.00	20.42' RT.	FS
2027	1,193,740.907'	1,522,023.645'	3,315.31'	35+50.43	20.36' RT.	FS
2028	1,193,751.481'	1,522,019.924'	3,315.17'	35+58.26	12.29' RT.	FS
2029	1,193,750.675'	1,522,021.506'	3,315.20'	35+58.25	14.07' RT.	TBC
2030	1,193,718.476'	1,522,023.053'	3,314.86'	35+29.86	29.77' RT.	FG
2031	1,193,713.328'	1,522,032.323'	3,314.80'	35+29.30	40.36' RT.	FG
2032	1,193,720.481'	1,522,030.202'	3,315.13'	35+34.87	35.30' RT.	FS
2033	1,193,723.065'	1,522,025.925'	3,115.15'	35+35.31	30.32' RT.	FS
2034	1,193,736.343'	1,522,019.335'	3,315.23'	35+44.37	18.53' RT.	FS
2035	1,193,748.545'	1,522,020.433'	3,315.43'	35+55.85	14.07' RT.	TBC
2036	1,193,745.086'	1,522,018.703'	3,315.30'	35+51.97	14.07' RT.	TBC
2037	1,193,735.825'	1,522,035.726'	0.00'	35+51.29	33.44' RT.	C-L RAD.
2038	1,193,753.248'	1,522,018.583'	3,315.27'	35+59.24	10.30' RT.	FS
2039	1,193,745.212'	1,522,014.465'	3,315.13'	35+50.18	10.22' RT.	FS
2040	1,193,735.154'	1,522,012.300'	3,315.03'	35+40.16	12.76' RT.	FS
2041	1,193,727.084'	1,522,013.888'	3,314.99'	35+33.59	17.75' RT.	FS
2042	1,193,716.822'	1,522,021.845'	3,314.86'	35+27.82	29.41' RT.	FS
2043	1,193,713.992'	1,522,026.503'	3,314.83'	35+27.31	34.84' RT.	FS
2044	1,193,709.954'	1,522,034.882'	3,314.77'	35+27.36	44.14' RT.	FS
2045	1,193,751.018'	1,522,020.833'	3,315.10'	35+58.26	13.31' RT.	FL
2046	1,193,743.977'	1,522,017.163'	3,314.92'	35+50.28	13.19' RT.	FL
2047	1,193,741.231'	1,522,016.151'	3,314.91'	35+47.35	13.51' RT.	FL
2048	1,193,735.596'	1,522,015.418'	3,314.90'	35+41.95	15.36' RT.	FL
2049	1,193,727.754'	1,522,017.178'	3,314.86'	35+35.65	20.41' RT.	FL
2050	1,193,723.376'	1,522,019.708'	3,314.82'	35+32.82	24.61' RT.	FL
2051	1,193,722.714'	1,522,020.217'	3,314.82'	35+32.44	25.36' RT.	FL
2052	1,193,719.397'	1,522,023.700'	3,314.81'	35+30.98	29.95' RT.	FL
2053	1,193,716.877'	1,522,028.110'	3,314.78'	35+30.66	35.01' RT.	FL
2054	1,193,713.442'	1,522,035.255'	3,314.83'	35+30.72	42.94' RT.	FL
2055	1,193,714.511'	1,522,032.860'	3,314.74'	35+30.62	40.32' RT.	FL



CURB AND GUTTER TRANSITION DETAIL

PROFILE VIEW

RIVER DRIVE NORTH CORNER



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

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.

NOTES:

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.

SHEET NO. 21

RIVER DRIVE NORTH
CURB RAMP DETAILS

PROJECT NAME: GREAT FALLS URBAN PAVE PRES
COUNTY: CASCADE
PROJECT ID: UPP 5299(144)
UPN: 10247000

DESIGNED BY	01/2024
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

10247000RDDET002.DWG

MONTANA Department of Transportation

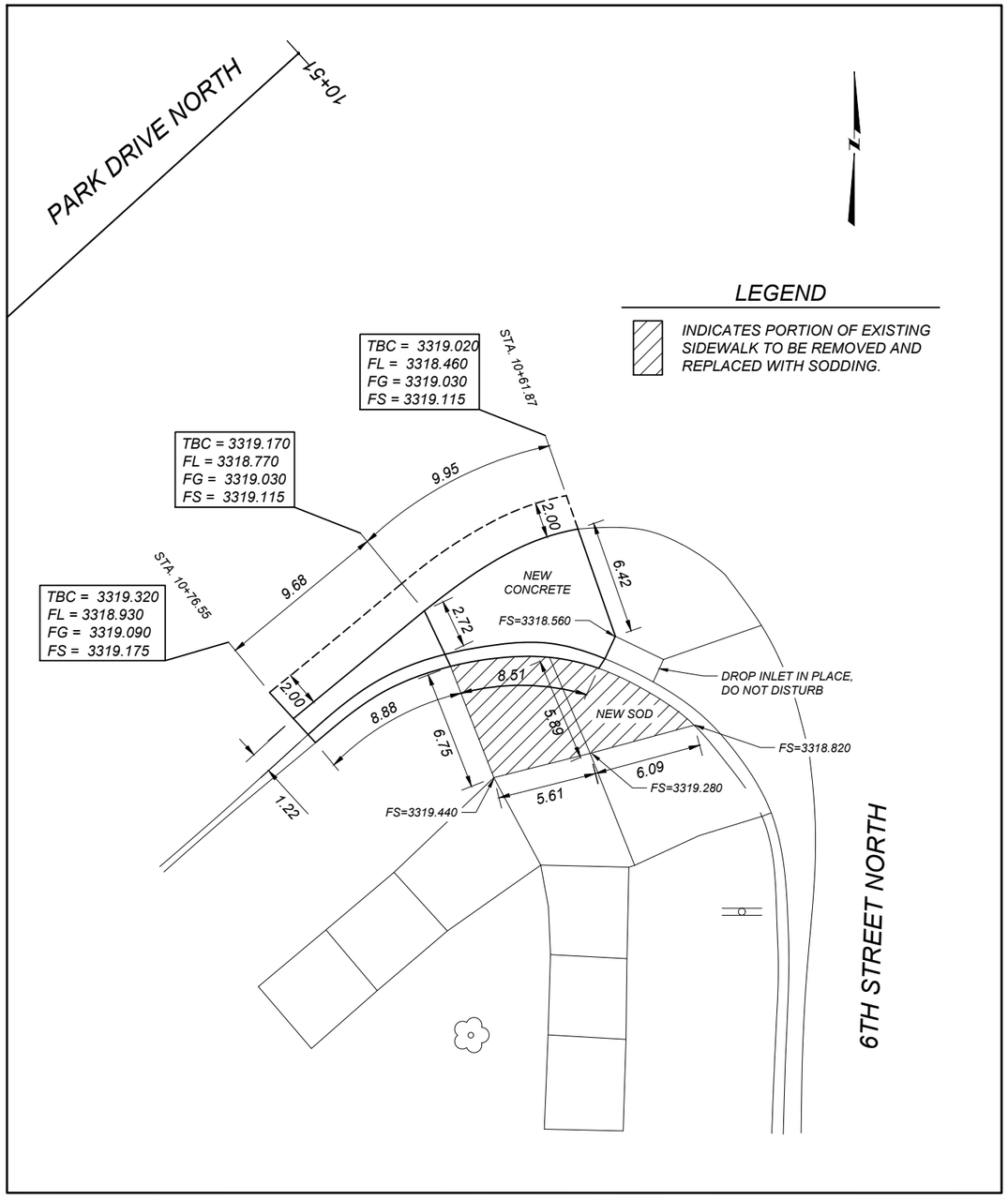
ROAD PLANS

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DETAIL

PARK DRIVE NORTH CORNER



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.

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.

PARK DRIVE NORTH SIDEWALK REMOVAL DETAIL

NO SCALE

SHEET NO. 22

PARK DRIVE NORTH SIDEWALK REMOVAL DETAIL

PROJECT NAME: GREAT FALLS URBAN PAVE PRES
COUNTY: CASCADE
PROJECT ID: UPP 5299(144)
UPN: 10247000

DESIGNED BY	01/2024
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

MONTANA Department of Transportation

ROAD PLANS

4/11/2024 9:13 AM

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21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00

T. 20 N. R. 3 E. SEC. 11

ADJUST MANHOLE
25+53.38 SAN. SWR. 10.93' RT.

RIVER DRIVE NORTH

20+90.20 BEG.
UPP 5299(144)
RIVER DRIVE NORTH (U-5205)

LEGEND

HATCHED AREA INDICATES AREA OF ADDITIONAL SURFACING FOG SEAL TREATMENT

26+73.30 TO 27+40.21
PARKING AREA LT.

29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00

T. 20 N. R. 3 E.

ADJUST MANHOLE
28+57.47 SAN. SWR 7.98' RT.
29+39.64 SAN. SWR. 8.06' RT.
33+40.76 SAN. SWR. 4.90' RT.

RIVER DRIVE NORTH

SECTION 02
SECTION 11

NEW 4" SIDEWALK RT.
NEW CURB & GUTTER RT.
35+31.45 35+56.91

SHEET NO.
23

RIVER DRIVE NORTH
PLAN SHEETS

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 1024700000

DESIGNED BY	D. BRAATEN	10/2023
REVIEWED BY	C. WARD	02/2024
CHECKED BY	J. CERECK	03/2024

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MONTANA
Department of Transportation

PLAN SHEETS

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36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00

T. 20 N. R. 3 E.

ADJUST MANHOLE
37+41.25 SAN. SWR. 6.22' RT.
41+27.04 SAN. SWR. 12.28' RT.

RIVER DRIVE NORTH

37+15.81 TO 51+99.83
PARKING AREA RT.

LEGEND

HATCHED AREA INDICATES AREA OF
ADDITIONAL SURFACING FOG SEAL TREATMENT

SECTION 02
SECTION 01

44+00 45+00 46+00 47+00 48+00 49+00 50+00

T. 20 N. R. 3 E.

SECTION 02
SECTION 01

RIVER DRIVE NORTH

LEGEND

HATCHED AREA INDICATES AREA OF
ADDITIONAL SURFACING FOG SEAL TREATMENT

SHEET NO.
24

RIVER DRIVE NORTH
PLAN SHEETS

PROJECT NAME GREAT FALLS URBAN PAVE PRES
COUNTY CASCADE
PROJECT ID UPP 5299(144)
UPN 10247000

DESIGNED BY	10/2023	REVIEWED BY	02/2024	CHECKED BY	03/2024
D. BRAATEN		C. WARD		J. CERECK	

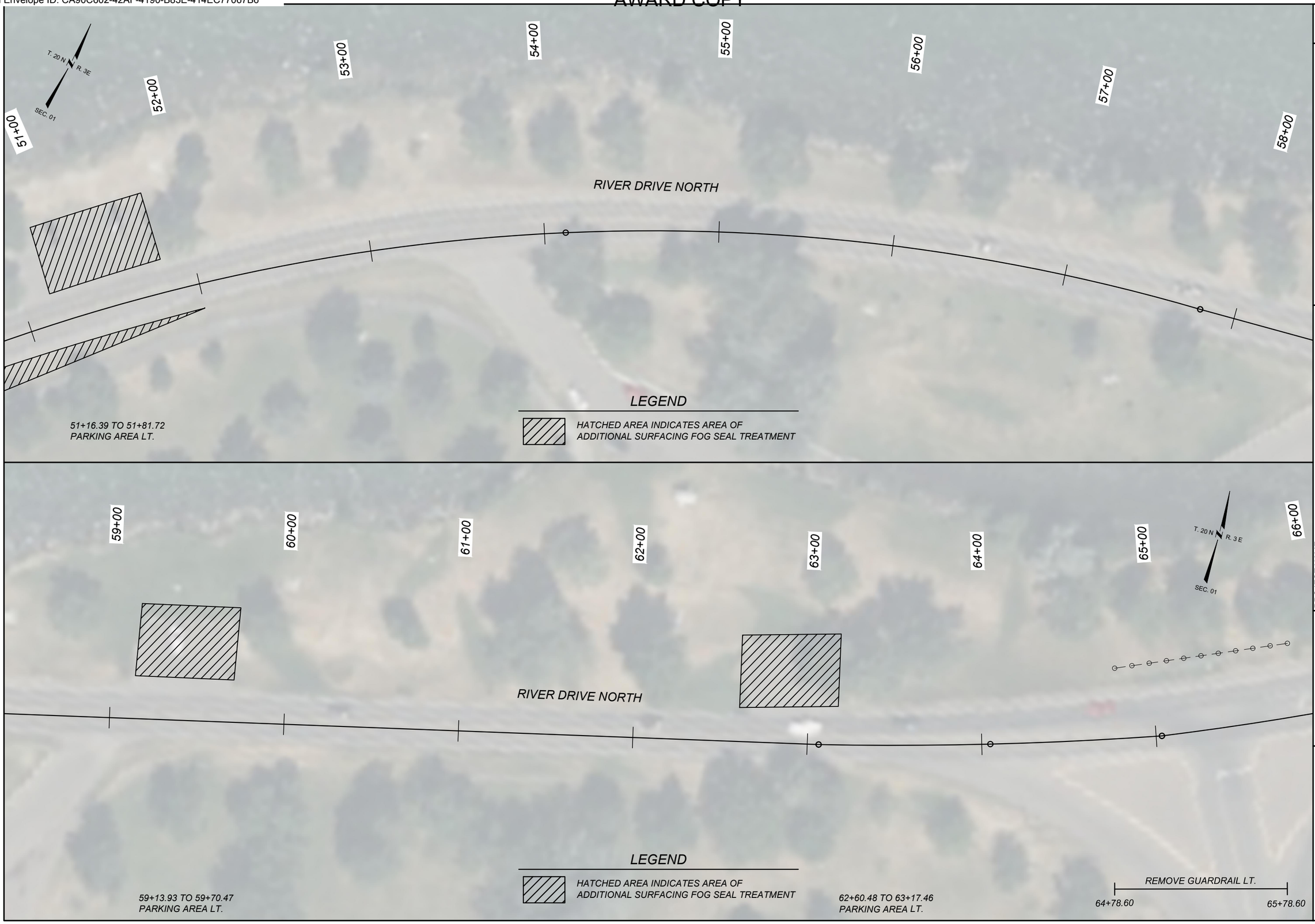
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Department of Transportation

PLAN SHEETS

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SHEET NO. 25

RIVER DRIVE NORTH PLAN SHEETS

PROJECT NAME: **GREAT FALLS URBAN PAVE PRES**

COUNTY: **CASCADE**

PROJECT ID: **UPP 5299(144)**

UPN: **10247000**

DESIGNED BY	10/2023
D. BRAATEN	
REVIEWED BY	02/2024
C. WARD	
CHECKED BY	03/2024
J. CERECK	

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MONTANA Department of Transportation

PLAN SHEETS

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66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00

T. 20 N R. 3 E SEC. 01

RIVER DRIVE NORTH

67+01.09 TO 67+58.39
PARKING AREA LT.

LEGEND

HATCHED AREA INDICATES AREA OF
ADDITIONAL SURFACING FOG SEAL TREATMENT

73+00 74+00 75+00 76+00 77+00 78+00 79+00 79+94

RIVER DRIVE NORTH

T. 20 N R. 3 E SEC. 01

79+94.00 END
UPP 5299(144)
RIVER DRIVE NORTH (U-5205)

SHEET NO.
26

RIVER DRIVE NORTH
PLAN SHEETS

PROJECT NAME
GREAT FALLS URBAN PAVE PRES

COUNTY
CASCADE

PROJECT ID
UPP 5299(144)

UPN
10247000

DESIGNED BY		REVIEWED BY		CHECKED BY	
D. BRAATEN	10/2023	C. WARD	02/2024	J. CERECK	03/2024

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Department of Transportation

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10+51 11+00 12+00 13+00 14+00 15+00 16+00 17+00

SEC. 01 T. 20 N. R. 3 E

6TH STREET NORTH

10+51.11 BEGIN
UPP 5299(144)
PARK DRIVE NORTH (U-5208)

7TH AVENUE NORTH

5TH STREET NORTH

PARK DRIVE NORTH

ADJUST VALVE BOX

11+44.80	WATER	4.26' LT.
14+90.87	WATER	15.60' LT.
15+53.21	WATER	14.11' LT.
15+56.80	WATER	16.54' LT.
15+61.63	WATER	13.77' LT.
15+86.58	WATER	13.19' LT.

ADJUST MANHOLE

12+62.85	STM.	2.00' RT.
15+80.34	STM.	4.58' RT.
15+82.19	STM.	12.61' RT.

REMOVE SIDEWALK LT.
NEW CURB & GUTTER LT.
10+61.87 10+76.55

10+60.00
DROP INLET - LT. 38.19'
DO NOT DISTURB

12+62.91
DROP INLET - RT. 12.20'
DO NOT DISTURB

15+85.88
DROP INLET - LT. 30.89'
DO NOT DISTURB

16+59.20
DROP INLET - RT. 12.08'
DO NOT DISTURB

17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00

SEC. 01 T. 20 N. R. 3 E

6TH AVENUE NORTH

4TH STREET NORTH

PARK DRIVE NORTH

ADJUST VALVE BOX

21+27.98	WATER	13.48' LT.
21+33.59	WATER	21.70' LT.
21+38.11	WATER	13.08' LT.

ADJUST MANHOLE

21+57.27	STM.	4.75' RT.

21+74.19
DROP INLET - LT. 27.25'
DO NOT DISTURB

22+62.65
DROP INLET - RT. 11.60'
DO NOT DISTURB

22+64.09
DROP INLET - LT. 20.07'
DO NOT DISTURB

SHEET NO.
27

PARK DRIVE NORTH
PLAN SHEETS

PROJECT NAME: GREAT FALLS URBAN PAVE PRES
COUNTY: CASCADE
PROJECT ID: UPP 5299(144)
UPN: 10247000

DESIGNED BY		REVIEWED BY		CHECKED BY	
D. BRAATEN	10/2023	C. WARD	02/2024	J. CERECK	03/2024

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Department of Transportation

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24+00 25+00 26+00 27+00 28+00 29+00 30+00

T. 20 N., R. 3 E.
SEC. 01

ADJUST VALVE BOX

26+47.03	WATER	12.96' LT.
26+55.34	WATER	15.56' LT
26+60.64	WATER	13.38' LT.
26+85.11	WATER	18.69' LT.
26+85.30	WATER	11.12' LT.
26+90.71	WATER	14.05' LT
28+29.04	WATER	12.78' LT.

ADJUST MANHOLE

27+63.46	STM.	1.84' RT.
27+67.87	STM.	6.66' RT.

5TH AVENUE NORTH

PARK DRIVE NORTH

27+70.85
DROP INLET - LT. 21.00'
DO NOT DISTURB

28+60.41
DROP INLET - LT. 20.74'
DO NOT DISTURB

30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00

T. 20 N., R. 3 E.

SECTION 12
SECTION 01

ADJUST MANHOLE

33+36.97	STM.	2.23' RT.
33+51.88	STM.	2.78' RT.

4TH AVENUE NORTH

ADJUST VALVE BOX

32+79.09	WATER	13.46' LT.
32+84.29	WATER	18.64' LT.
33+00.87	WATER	14.18' LT.

2ND STREET NORTH

PARK DRIVE NORTH

33+00.28
DROP INLET - RT. 14.55'
DO NOT DISTURB

33+64.81
DROP INLET - LT. 20.73'
DO NOT DISTURB

SHEET NO.
28

PARK DRIVE NORTH
PLAN SHEETS

PROJECT NAME: **GREAT FALLS URBAN PAVE PRES**
COUNTY: **CASCADE**
PROJECT ID: **UPP 5299(144)**
UPN: **10247000**

DESIGNED BY		REVIEWED BY		CHECKED BY	
D. BRAATEN	10/2023	C. WARD	02/2024	J. CERECK	03/2024

10247000RDPLP001.DWG

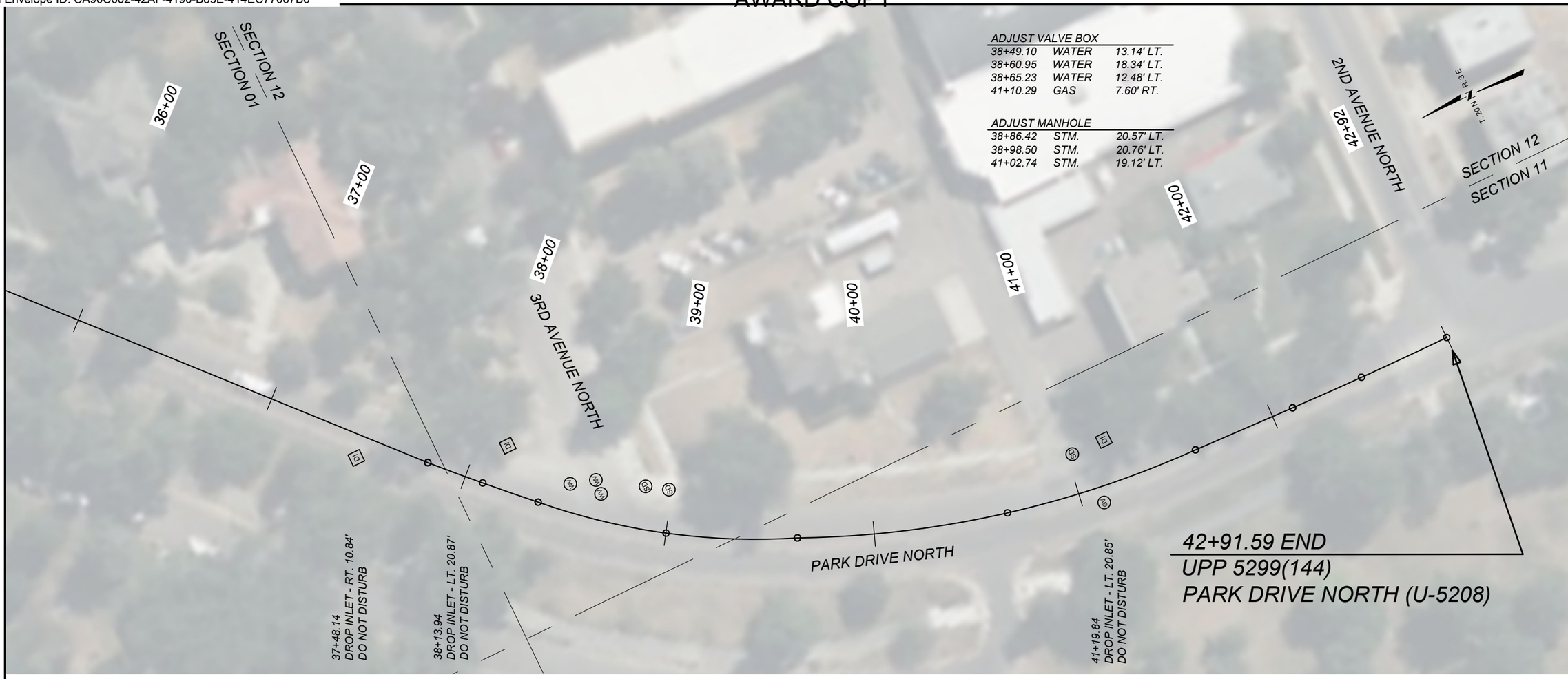
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Department of Transportation

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ADJUST VALVE BOX

38+49.10	WATER	13.14' LT.
38+60.95	WATER	18.34' LT.
38+65.23	WATER	12.48' LT.
41+10.29	GAS	7.60' RT.

ADJUST MANHOLE

38+86.42	STM.	20.57' LT.
38+98.50	STM.	20.76' LT.
41+02.74	STM.	19.12' LT.

SHEET NO.
29

PARK DRIVE NORTH
PLAN SHEETS

PROJECT NAME
GREAT FALLS URBAN PAVE PRES

COUNTY
CASCADE

PROJECT ID
UPP 5299(144)

UPN
10247000

DESIGNED BY	
D. BRAATEN	10/2023
REVIEWED BY	
C. WARD	02/2024
CHECKED BY	
J. CERECK	03/2024

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MONTANA
Department of Transportation

PLAN SHEETS

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	U-5208 Park Dr. N.	U-5205 River Dr. N.	U-5208 Park Dr. N. 2nd St S	U-5209 6th St. N.	U-5232 3RD AVE. S.	TOTAL	UNIT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(IV)							SQ. FOOT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(XI)	249.7	81.0	477.3	85.4	93.5	1,038.4	SQ. FOOT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(IX)							SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (IV)							SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (XI)		142				142	SQ. FOOT
OVERLAY-SHEET ALUMINUM							SQ. FOOT
POSTS-STEEL "U"							POUNDS
POLES-TREATED WOOD-4" DIA.							LINEAR FT.
POLES-TREATED WOOD-5" DIA.							LINEAR FT.
POLES-TREATED TIMBER-CLASS 4							LINEAR FT.
POLES-TREATED TIMBER-CLASS 3							LINEAR FT.
POSTS-TUBULAR STEEL (ROUND)							POUNDS
POSTS-TUBULAR STEEL (SQUARE PERFORATED)	65	133	130			328	POUNDS
POSTS-STRUCTURAL STEEL							POUNDS
OVERHEAD STRUCTURE-METAL-CANTILEVER							EACH
OVERHEAD STRUCTURE-METAL-BRIDGE							EACH
HIGHWAY TRAFFIC STRIPING-WHITE							GAL.(S)
HIGHWAY TRAFFIC STRIPING-YELLOW							GAL.(S)
WORDS & SYMBOLS							GAL.(S)
DELINEATOR-DESIGN A							EACH
DELINEATOR-DESIGN B							EACH
DELINEATOR-DESIGN C							EACH
DELINEATOR-DESIGN D							EACH
DELINEATOR-DESIGN E							EACH
DELINEATOR-DESIGN F							EACH
DELINEATOR-DESIGN G							EACH
DELINEATOR-DESIGN H							EACH
REMOVE SIGNS	25	15	43	10	10	105	EACH
REMOVE SIGNS-GUIDE		2	10			12	EACH
RESET SIGNS							EACH
RESET SIGNS-GUIDE							EACH
FRANGIBLE SIGN POST BREAKAWAY DEVICE-							EACH
SQ TUBLR SLIP BASE BKWY-3 IN							EACH
DELINEATOR-PANEL DESIGN C							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/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
		PARK DR. N. U-5208																											
0.010 Rt.		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5									1					Park Dr N Island
		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1														6th St N
		R1-2	36"x36"	XI	XI	RSFO								3.9														
0.063 Lt.		By City																										CITY CIRCLE TOUR LEFT ARROW
0.088 Lt.		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5									1					Park Dr N
		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1														7th Ave N
		R1-1	30"x30"	XI	XI	RSFO								5.2														
0.047 Rt.		By City																										NO PARKING THIS SIDE OF STREET
0.090 Rt.		R6-1L R6-1R	36"x12" 36"x12"	XI XI		RSFO								3.0 3.0									1					Mount Back to Back
		R5-1	30'x30'	XI	XI	RSFO								6.3														
0.102 Rt.		R6-1L R6-1R	36"x12" 36"x12"	XI		RSFO								3.0 3.0									1					Mount Back to Back
		R5-1	30'x30'	XI	XI	RSFO								6.3														
0.108 Lt.		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5									1					Park Dr N
		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1														5th St N
		R6-1L R6-1R	36"x12" 36"x12"	XI XI		RSFO								3.0 3.0														Mount Back to Back
0.111 Lt.		By City																										Elks Riverside Park Historic Downtown
0.152 Rt.		By City																										NO PARKING THIS SIDE OF STREET
0.187 Lt.		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5									1					Park Dr N
		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5														6th Ave N
		R1-1	30"x30"	XI	XI	RSFO								5.2														
0.203 Lt.		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5									1					Park Dr N
		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1														4th St N
		R1-1	30"x30"	XI	XI	RSFO								5.2														
0.222 Lt.		R2-1	24"x30"	XI		RSFO								5.0									1					30 MPH
0.252 Rt.		By City																										NO PARKING THIS SIDE OF STREET
0.298 Lt.		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5									1					Park Dr N
		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5														5th Ave N
0.298 Lt.		R1-1	30"x30"			RSFO								5.2														
0.303 Lt.		R1-1	30"x30"			RSFO								5.2														

***"NO PARKING", "SNOW ROUTE" & CITY SIGNAGE ARE INCLUDED IN THESE SPEC SHEET TOTALS

Approximate Totals
2 - Snow Route Signing
26 - No Parking Signing

RSFO = REPLACE SIGN FACE ONLY

3 2 1	MONTANA Department of Transportation	C:\DGN\10247000sisum001.dgn 6/24/2024 9:12:56 AM CPS - U4044	DESIGNER: R. SCHROEDER 09/2023 CHECKER: N. STYREN 02/2024 REVIEWED: *** ***	SIGNING PLANS CASCADE COUNTY		Great Falls Urban Pave Pres UPN #10247000	UPP 5299(144) S2

DocuSign Envelope ID: CA90C602-42AF-4190-B83E-414EC77067B6

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	BREAKAWAY	SIGNS: REMOVE	SIGNS: RESET	GUIDE: REMOVE	GUIDE: RESET	REMARKS
PARK DR. N. U-5208 continued																												
0.319 Rt.		W11-2	30"x30"	XI		RSFO								6.3									1				FY	
		W16-7pL	24"x12"	XI		RSFO								2.0													FY	
0.321 Lt.		W11-2	30"x30"	XI		RSFO								6.3									1				FY	
		W16-7pL	24"x12"	XI		RSFO								2.0													FY	
0.323 Lt.		R5-1	By Others																									
		R1-1	By Others																									
0.394 Rt.		W11-2	30"x30"	XI		RSFO								6.3									1				FY	
		W16-9p	24"x12"	XI		RSFO								2.0													FY	
0.383 Lt.		R2-1	24"x30"	XI		RSFO								5.0									1					30 MPH **Trim Tree
0.393 Lt.		By City																										NO PARKING HERE TO CORNER
0.409 Rt.		By City																										NO PARKING THIS SIDE OF STREET
0.423 Lt.		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5									1					Park Dr N
		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5														4th Ave N
		R1-1	30"x30"	XI	XI	RSFO								5.2														
0.424 Lt.		By City																										NO PARKING ANY TIME
0.427 Rt.		W11-2	30"x30"	XI		RSFO								6.3									1				FY	Gibson Park
		W16-7pL	24"x12"	XI		RSFO								2.0													FY	
0.429 Rt.		W11-2	30"x30"	XI		RSFO								6.3									1				FY	
		W16-7pL	24"x12"	XI		RSFO								2.0													FY	
0.431 Lt.		W11-2	30"x30"	XI		RSFO								6.3									1				FY	
		W16-7pL	24"x12"	XI		RSFO								2.0													FY	
0.424 Rt.		By City																										Civic Center Ester Park Rivers Edge Trail
0.441 Lt.		W11-2	30"x30"	XI		RSFO								9.0									1				FY	
		W16-9p	24"x12"	XI		RSFO								2.0													FY	
0.512 Lt.		D3-2 (2) D3-2 (2)	REMOVE																				1					
0.512 Lt.		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5									1					Park Dr N
		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5														3rd Ave N
		R1-1	30"x30"	XI	XI	RSFO								5.2														
0.558 Rt.		R5-1	24'x24'	XI	XI	RSFO								4.0									1					
0.560 Rt.		R5-1	24'x24'	XI	XI	RSFO								4.0									1					
0.580 Rt.		By City																										NO PARKING THIS SIDE OF STREET ANYTIME

RSFO = REPLACE SIGN FACE ONLY

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

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AWARD COPY

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	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
PARK DR. N. U-5208 continued																													
0.595 Lt.		R6-1L R6-1R	36"x12" 36"x12"	XI		RSFO								3.0 3.0										1					ONE WAY ONE WAY Mount Back to Back
		R3-1	24"x24"	XI	XI	RSFO								4.0															DO NOT ENTER Mount Back to Back
		R5-1	REMOVE																					1					
0.596 Rt.		R5-1	24"x24"	XI	XI	10-0		2-1/2" Sq. Tube	13-5			7-0	3-0	4.0								▲							DO NOT ENTER NEW
0.604 Rt.		R1-1	30"x30"	XI	XI	RSFO								5.2										1					STOP
											Park Dr. N. TOTAL			249.7						65			25						
RIVER DR. N. U-5205																													
1.715 Lt.		By City																											
1.741 Lt.		D9-10	24"x24"	XI	XI	RSFO								4.0										1					? INFORMATION CENTER
		D9-10p	24"x12"	XI	XI	RSFO								2.0															DIRECTION (ARROW)
		M6-3	15"x21"	XI	XI	RSFO								2.2															
1.780 Rt.		By City																											NO PARKING THIS SIDE OF STREET
1.805 Lt.		R3-8c	30"x30"	XI		RSFO								6.3										1					ONLY
1.850 Rt.		R2-1	18"x24"	XI		RSFO								3.0										1					35 MPH SPEED LIMIT 35
1.850 Lt.		R2-1	18"x24"	XI		RSFO								3.0										1					30 MPH SPEED LIMIT 30
1.850 Lt.		W3-1	18"x18"	XI		RSFO								1.9										1					Place on Bike Trail
1.965 Lt.		R1-1	18"x18"	XI	XI	RSFO								1.9										1					STOP Place on Bike Trail
1.966 Rt.		R1-1	18"x18"	XI	XI	RSFO								1.9										1					STOP Place on Bike Trail
1.965 Rt.		R1-5bL	36"x36"	XI	XI	10-0		2-1/2" Sq. Tube	14-5			5-0	3-0	9.0							68								NEW
1.970 Rt.		W11-2	30"x30"	XI		RSFO								2.0										1				FY	
		W16-7pL	24"x12"	XI		RSFO								3.8														FY	
1.971 Lt.		W11-2	30"x30"	XI		RSFO								2.0										1				FY	
		W16-7pL	24"x12"	XI		RSFO								3.8	21.0													FY	
1.980 Rt.		W3-1	12"x12"	XI		RSFO								1.0										1					Place on Bike Trail
2.536 Lt.		W1-7A	72"x42"	XI		RSFO									21.0											1		FY	
2.538 Lt.		By City																											HISTORIC DISTRICT

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3	MONTANA Department of Transportation	C:\DGN\10247000sisum002.dgn	DESIGNER:	R. SCHROEDER	09/2023	SIGNING PLANS	Great Falls Urban Pave Pres / UPN #10247000 / UPP 5299(144) / S4
2		6/24/2024	CHECKER:	N. STYREN	02/2024		
1		9:13:15 AM CPS - U4044	REVIEWED:	***	***	CASCADE COUNTY	

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SIGN LOCATION AND SPECIFICATIONS

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RIVER DR. N. U-5205 continued																													
2.616 Rt.		RG-240	24"x24"			RSFO								4.0										1					 Right Arrow
		D9-99C	24"x6"			RSFO								1.0															
2.646 Lt.		RG-240	24"x24"			RSFO								4.0										1					 Left Arrow
		D9-99C	24"x6"			RSFO								1.0															
2.675 Rt.		R1-1	30"x30"	XI	XI	RSFO								5.2										1					
		R5-1	REMOVE																										
2.675 Rt.		R5-1	24'x24'	XI	XI	10-0		2-1/2" Sq. Tube		13-5		7-0	3-0	4.0						65			▲						
															50.0														
2.690 Rt.		By City																											NO PARKING THIS SIDE OF STREET ANYTIME
2.731 Rt.		R2-1	24"x30"	XI		RSFO								5.0										1					35 MPH 
2.777 Rt.		W3-3	36"x36"	XI		RSFO								9.0										1					
2.821 Rt.		D9-2	120"x60"	XI	XI	RSFO									50.0										1				
														River Dr. N. TOTAL	81.0	142.0				133				15		2			
		PARK DR. N. & 2nd ST. S. U-5208																											
0.715 Lt.		R3-5	30"x36"	XI		RSFO								7.5												1			 Mount On Mast Arm
		R3-6	30"x36"	XI		RSFO								7.5												1			 Mount On Mast Arm
		R3-5a	30"x36"	XI		RSFO								7.5												1			 Mount On Mast Arm
0.719 Lt.		By City																											Gibson Park MT ExpPark & Areana Paris Gibson Museum
0.725 Rt.		By City																											NO PARKING ANY TIME
0.736 Rt.		R3-1	24'x24'	XI	XI	RSFO								4.0															 Mount Back to Back
		R5-1	30"x30"	XI	XI	RSFO								6.3										1					
0.745 Rt.		By City																											NO PARKING ANY TIME
0.744 Rt.		R3-2	24'x24'	XI	XI	RSFO								4.0										1					
		R1-1	30"x30"	XI	XI	RSFO								5.2															
0.748 Rt.		By City																											EMERGENCY SNOW ROUTE Mounted on Pole
		R3-6	30"x36"	XI		RSFO								7.5												1			 Mount On Mast Arm
		R3-5B	30"x36"	XI		RSFO								7.5												1			 Mount On Mast Arm

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		PARK DR. N. & 2nd ST. S. U-5208 (continued)																										
0.765 Rt.		OH D3-2	42"x12"	XI	XI	RSFO								3.5											1				PARK DR — Mount On Mast Arm
0.775 Rt.		OH D3-2	54"x12"	XI	XI	RSFO								4.5											1				CENTRAL AVE. — Mount On Mast Arm
0.785 Lt.		By City																										NO PARKING THIS SIDE OF STREET
0.795 Lt.		By City																										NO PARKING THIS SIDE OF STREET
0.748 Rt.		By City																										GF 5 Transit
0.840 Rt.		IS-4a	48"x30"	XI	XI	RSFO								10.0										1			BBR	Civic Center Police Dept The Mansfield Railroad Square — Civic Center, Police Dept, The Mansfield, Railroad Square
0.841 Rt.		IS-4b	48"x30"	XI	XI	RSFO								10.0										1			BBR	Civic Center Police Dept The Mansfield Railroad Square — Civic Center, Police Dept, The Mansfield, Railroad Square
0.846 Lt.		R5-1	REMOVE																					1				Mount On Island — DO NOT ENTER
		R1-1	36"x36"	XI	XI	RSFO								7.5														STOP — Mount Back to Back
0.846 Lt.		R5-1	24'x24'	XI	XI	10-0		2-1/2" Sq. Tube		13-5		7-0	3-0	4.0						65		▲						NEW — DO NOT ENTER
0.851 Lt.		R5-1	REMOVE																					1				DO NOT ENTER
		R1-1	36"x36"	XI	XI	RSFO								7.5														STOP — Mount Back to Back
0.851 Lt.		R5-1	24'x24'	XI	XI	10-0		2-1/2" Sq. Tube		13-5		7-0	3-0	4.0						65		▲						NEW — DO NOT ENTER
0.852 Rt.		D3-2 (2)	42"x10"	XI XI	XI XI	RSFO								2.9 2.9										1				Park Drive S
		D3-2 (2)	30"x10"	XI XI	XI XI	RSFO								2.1 2.1														1st Ave S
		R1-1	36"x36"			RSFO								7.5														STOP
0.853 Lt.		R6-1R	36"x12"	XI		RSFO								3.0										1				ONE WAY
		R3-2	24'x24'	XI	XI	RSFO								4.0														Mount Back to Back
		R5-1a	36"x24"	XI	XI	RSFO								6.0														WRONG WAY
0.871 Lt.		R6-1R	36"x12"	XI		RSFO								3.0										1				ONE WAY
0.886 Rt.		R6-1L	36"x12"	XI		RSFO								3.0										1				ONE WAY
0.901 Rt.		By City																										Vac Rehab Parking Only
0.902 Rt.		W3-3	36"x36"	XI		RSFO								9.0										1				Mount Back to Back
		R5-1a	36"x24"	XI	XI	RSFO								6.0														WRONG WAY
0.916 Lt.		W3-3	36"x36"	XI		RSFO								9.0										1				Mount Back to Back
		R5-1a	36"x24"	XI	XI	RSFO								6.0														WRONG WAY
0.936 Lt.		R3-8e	36"x30"	XI		RSFO								7.5														
0.937 Rt.		R3-8e	36"x30"	XI		RSFO								7.5														

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.

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		PARK DR. N. & 2nd ST. S. U-5208 (continued)																											
0.971 Rt.		R6-1L	36"x12"	XI		RSFO								3.0										1					WAY ONE
		R3-1	24'x24'	XI	XI	RSFO								4.0															
0.971 Lt.		R6-1R	36"x12"	XI		RSFO								3.0										1					ONE WAY
		R3-2	24'x24'	XI	XI	RSFO								4.0															
0.765 Rt.		OH D3-2	48"x12"	XI	XI	RSFO								4.0										1					2ND AVE S — Mount On Mast Arm
		R3-5	30"x36"	XI	XI	RSFO								7.5										1					ONLY — Mount On Mast Arm
0.775 Lt.		OH D3-2	48"x12"	XI	XI	RSFO								4.0										1					2ND AVE S — Mount On Mast Arm
		R6-1R	36"x12"	XI		RSFO								3.0										1					ONE WAY — Mount On Mast Pole
0.775 Lt.		OH D3-2	42"x12"	XI	XI	RSFO								3.5										1					2ND ST S — Mount On Mast Arm
		R6-1L R6-1R	36"x12" 36"x12"	XI		RSFO								3.0 3.0										1					ONE WAY / ONE WAY — Mount On Mast Pole
		Starting 2nd St. S. U-5208																											
0.991 Lt.		By City																											Gibson Park Historic Downtown Parking
1.011 Lt.		By City																											NO PARKING ANY TIME
1.022 Rt.		By City																											NO PARKING ANY TIME
1.042 Lt.		By City																											NO PARKING ANY TIME
1.057 Rt.		By City																											NO PARKING ANY TIME
1.062 Rt.		By City																											Voc Rehab Parking Only
1.077 Rt.		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1										1					2nd St S — 2ND ST S
		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5															3rd Ave S — 3RD AVE S
		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
1.087 Rt.		By City																											EMERGENCY SNOW ROUTE
1.121 Lt.		By City																											Broadway Bay Park Electric City Water Park Oddfellows Park
1.162 Rt.		R2-1	24"x30"	XI		RSFO								5.0										1					30 MPH — SPEED LIMIT 30
1.183 Rt.		By City																											Great Falls Civic Center Historic Downtown Bus Transfer Station
1.092 Lt. Rt.		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1										1					2nd St S — 2ND ST S
		D3-2 (2)	36"X10"	XI	XI	RSFO								2.5 2.5															5th Ave S — 5TH AVE S
		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
1.258 Rt.		R2-1	24"x30"	XI		RSFO								5.0										1					30 MPH — SPEED LIMIT 30

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3	MONTANA Department of Transportation	C:\DGN\10247000sisum003.dgn	DESIGNER: R. SCHROEDER	09/2023	SIGNING PLANS	Great Falls Urban Pave Pres / UPP 5299(144)
2		6/24/2024	CHECKER: N. STYREN	02/2024		UPN #10247000 / S7
1		9:13:31 AM CPS - U4044	REVIEWED: ***	***	CASCADE COUNTY	

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		PARK DR. N. & 2nd ST. S. U-5208 (continued)																											
1.323 Rt.		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1										1					2nd St S
		D3-2 (2)	42"x10"	XI	XI	RSFO								2.9 2.9															Park Dr S
		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
1.347 Lt.		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1										1					2nd St S
		D3-2 (2)	36"x10"	XI	XI	RSFO								2.5 2.5															7th Ave S
		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
1.424 Lt.		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1										1					2nd St S
		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1															8th Ave S
		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
1.474 Rt.		By City																											NO PARKING THIS SIDE OF STREET
1.484 Rt.		By City																											NO PARKING THIS SIDE OF STREET
1.497 Lt.		By City																											NO PARKING THIS SIDE OF STREET
1.503 Lt.		R2-1	24"x30"	XI		RSFO								5.0										1					30 MPH SPEED LIMIT 30
1.502 Lt.		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1										1					2nd St S
		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1															9th Ave S
		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
1.509 Rt.		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
1.538 Rt.		D3-2 (2)	REMOVE																					1					
1.538 Rt.		D3-2 (2)	30"x10"	XI	XI	RSFO								2.1 2.1										1					2nd St S
		D3-2 (2)	42"X10"	XI	XI	RSFO								2.9 2.9															COMMERIAL AVE
1.549 Rt.		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
1.565 Rt.		R3-8d	30"x30"	XI		RSFO								6.3										1					Mount On Mast Pole
1.590 Rt.		OH R3-5	30"x36"	XI		RSFO								7.5										1					Mount On Mast Arm
		OH R3-6R	30"x36"	XI		RSFO								7.5										1					Mount On Mast Arm
1.620 Lt.		OH D3-2	48"X12"	XI	XI	RSFO								4.0										1					Mount On Mast Arm
1.620 Rt.		OH D3-2	78"X24"	XI	XI	RSFO								13.0															Mount On Mast Arm
		R3-5a	30"x36"	XI		RSFO								7.5															Mount On Mast Arm
1.635		W4-3R	48"x48"	XI		RSFO								12.0												1			Mount On Island
1.639 Rt.		OH D3-2	48"X12"	XI	XI	RSFO								4.0												1			Mount On Mast Arm
1.639 Lt.		OH D3-2	78"X24"	XI	XI	RSFO								13.0												1			Mount On Mast Arm
			Park Dr. N. & 2nd St S TOTAL											435.3						130			35		10				

RSFO = REPLACE SIGN FACE ONLY

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

3	MONTANA Department of Transportation	C:\DGN\10247000sisum003.dgn	DESIGNER: R. SCHROEDER	09/2023	SIGNING PLANS	Great Falls Urban Pave Pres	UPP 5299(144)
2		6/24/2024	CHECKER: N. STYREN	02/2024			
1		9:13:35 AM CPS - U4044	REVIEWED: ***	***	CASCADE COUNTY	UPN #10247000	S8

DocuSign Envelope ID: CA90C602-42AF-4190-B83E-414EC77067B6

AWARD COPY

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	REMOVE	RESET	REMARKS
		6TH ST. N. U-5209																										
1.388 Lt.		R1-1	30"x30"	XI	XI	RSFO								5.2									1					STOP
1.390 Lt.		W14-1	30"x30"	XI		RSFO								6.3									1					ROAD END
1.397 Rt.		D3-2 (2)	30"X10"	XI	XI	RSFO								2.1 2.1									1					8th Ave N
		D3-2 (2)	30"X10"	XI	XI	RSFO								2.1 2.1														6th St N
		R1-1	30"x30"	XI	XI	RSFO								5.2														STOP
1.400 Rt.		W12-2	30"x30"	XI		RSFO								6.3									1					12-6
1.415 Rt.		By City																										Elks Riverside Park Electric City Water Park
1.424 Rt.		OH W12-2p	84"x24"	XI		RSFO								14.0									1					12FT 6IN
1.444 Rt.		OH W12-2p	84"x24"	XI		RSFO								14.0									1					12FT 6IN
1.445 Lt.		W12-2	36"x36"	XI		RSFO								9.0									1					12-6
1.454 Lt.		R1-2	36"x36"x36"	XI	XI	RSFO								3.9									1					Mount On Light Pole
1.459 Rt.		By City																										CITY CIRCLE TOUR
1.454 Rt.		R1-2	36"x36"x36"	XI	XI	RSFO								3.9									1					Mount On Light Pole
		R5-1	24'x24'	XI	XI	RSFO								4.0														DO NOT ENTER
1.474 Rt.		R1-1	30"x30"	XI	XI	RSFO								5.2									1					STOP
														85.4									10					
		3RD AVE. S. U-5232																										
0.0035 Rt.		W11-2	30"x30"	XI		RSFO								6.3									1				FY	
		W16-7pL	24"x12"	XI		RSFO								2.													FY	
0.0035 Lt.		W11-2	30"x30"	XI		RSFO								6.3									1				FY	
		W16-7pL	24"x12"	XI		RSFO								2.													FY	
0.0060 Lt.		D3-2 (2)	30"X10"	XI	XI	RSFO								2.1 2.1									1					River Dr S
		D3-2 (2)	30"X10"	XI	XI	RSFO								2.1 2.1														3rd Ave. S.
		R1-1	30"x30"	XI	XI	RSFO								5.2														STOP
0.0165 Rt.		W10-1	36" Dia.	XI		RSFO								7.1									1					
0.0290 Lt.		R3-8d	30"x30"	XI		RSFO								6.3									1					ONLY ONLY
0.0423 Lt.		R1-1	30"x30"	XI	XI	RSFO								5.2									1					STOP
		D11-2	24"x18" 24"x18"	XI	XI	RSFO								3.0 3.0														ONE WAY Mount Facing Opposite Directions
		D9-99pL D9-99pR	24"x6" 24"x6"	XI	XI	RSFO								1.0 1.0														Mount Facing Opposite Directions

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.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

DocuSign Envelope ID: CA90C602-42AF-4190-B83E-414EC77067B6

SIGN LOCATION AND SPECIFICATIONS

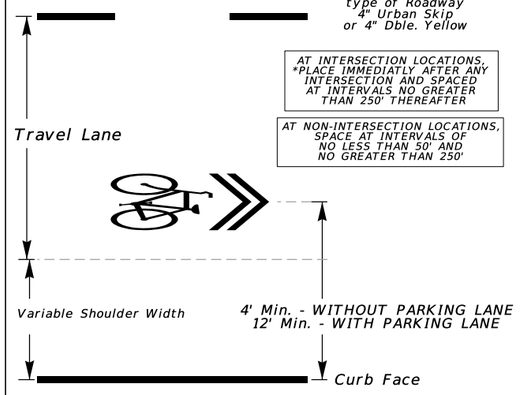
REF. POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET 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	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
		3RD AVE. S. U-5232 continued																											
0.0510 Lt.		By City																											Oddfellows Park Electric City Water Park Elks Riverside Park
0.0720 Rt.		W10-1	36" Dia.	XI		RSFO								7.1									1						
0.0768 Lt.		By City																											NO PARKING ANY TIME
0.0793 Lt.		D3-2 (2)	30"X10"	XI	XI	RSFO								2.1 2.1									1						1st St S
		D3-2 (2)	30"X10"	XI	XI	RSFO								2.1 2.1															3rd Ave S
		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
0.0917 Lt.		By City																											NO PARKING ANY TIME
0.0965 Rt.		D3-2 (2)	42"X10"	XI	XI	RSFO								2.9 2.9									1						Park Dr S
		D3-2 (2)	36"X10"	XI	XI	RSFO								2.5 2.5															3rd Ave S
		R1-1	30"x30"	XI	XI	RSFO								5.2															STOP
0.110 Rt.		By City																											Great Falls Transportation
0.1166 Lt.		By City																											Great Falls Transportation
													3RD AVE. S. TOTAL	93.5								10						
													Park Dr. N. TOTAL	249.7					65			1 25						
													River Dr. N. TOTAL	81.0	142				133			1 15		2				
													Park Dr. N. & 2nd St S TOTAL	435.3					130			2 35		10				
													6th St. S. TOTAL	85.4								10						
													3RD AVE. S. TOTAL	93.5								10						
													TOTALS	1,038.4	142				328			105		12				

RSFO = REPLACE SIGN FACE ONLY

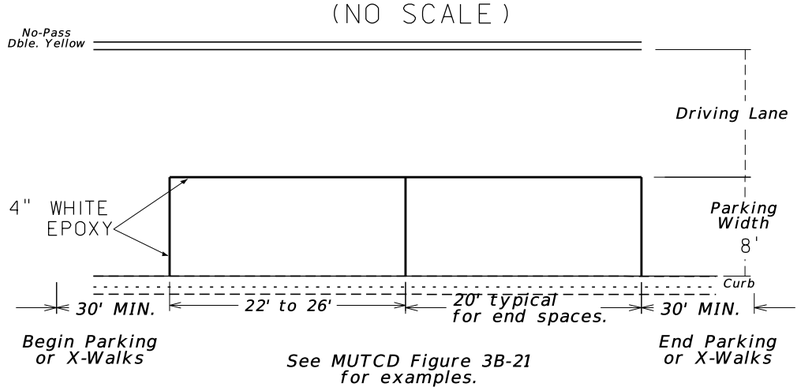
DocuSign Envelope ID: CA90C602-42AF-4190-B83E-414EC77067B6

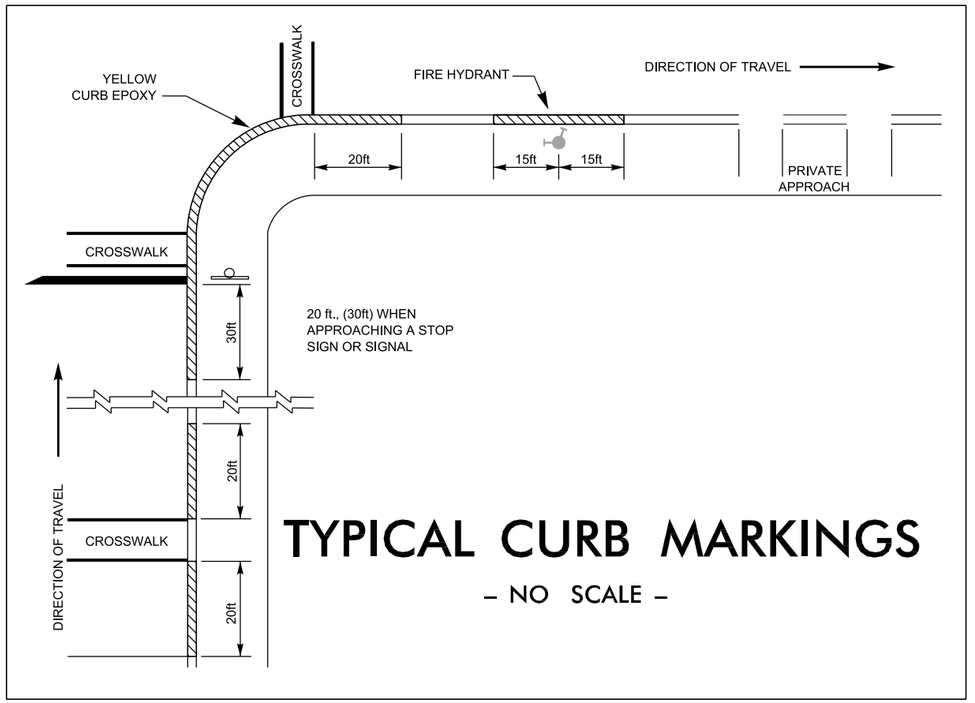
AWARD COPY

TYPICAL ROAD & BIKE LANE EPOXY MARKINGS



PARKING DETAIL A
(NO SCALE)





TYPICAL CURB MARKINGS
– NO SCALE –

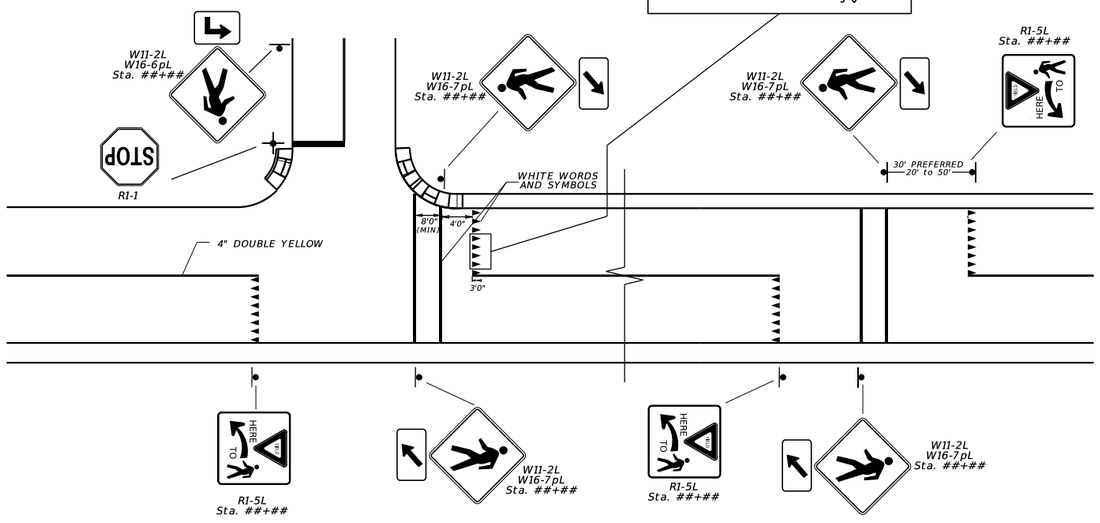
TYPICAL PEDESTRIAN CROSSING - NON SIGNALIZED DETAIL
NOT TO SCALE

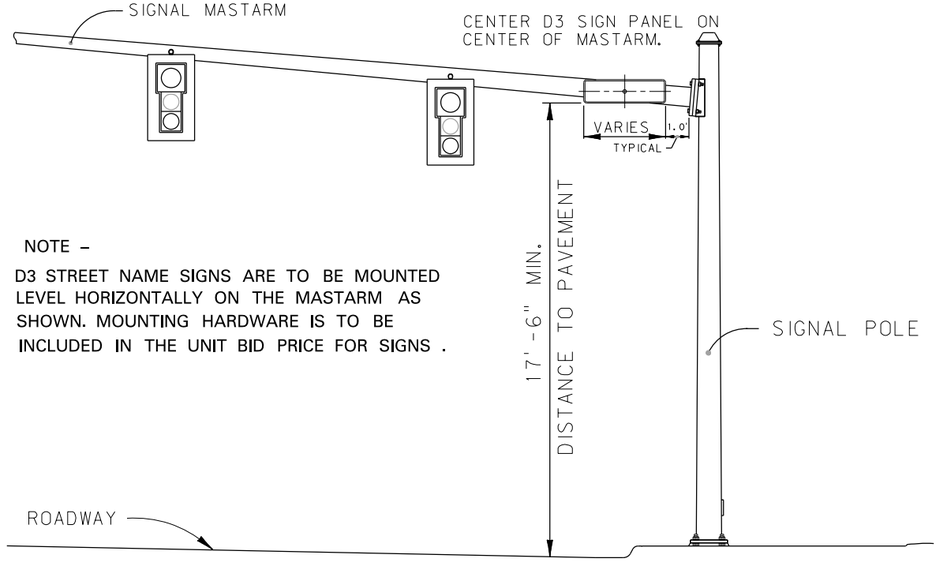
GENERAL NOTES:

REFER TO PART 3B-15 THROUGH 3B-18 IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION FOR ADDITIONAL GUIDANCE

DIMENSIONS ARE TYPICAL







NOTE –

D3 STREET NAME SIGNS ARE TO BE MOUNTED LEVEL HORIZONTALLY ON THE MASTARM AS SHOWN. MOUNTING HARDWARE IS TO BE INCLUDED IN THE UNIT BID PRICE FOR SIGNS .

D3 OVERHEAD SIGN DETAIL
NO SCALE

3	MONTANA Department of Transportation	C:\DGN\10247000sisum004.dgn	DESIGNER:	R. SCHROEDER	09/2023	SIGNING PLANS	Great Falls Urban Pave Pres / UPP 5299(144)
2		6/24/2024	CHECKER:	N. STYREN	10/2023	CASCADE COUNTY	UPN #10247000 / S11
1		9:13:53 AM CPS - U4044	REVIEWED:	***	***		