

MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT IM 15-5(157)278
CRACK SEAL, SEAL & COVER, AND
BRIDGE DECK CRACK SEAL
GREAT FALLS - NORTHWEST

CASCADE COUNTY

LENGTH 6.0 MILES

STA. 147+17.25; RP 282.5
378.5' X 28.0' BRIDGE
NBI ID - I00015282+00472
MDT ID - 01256
EMERSON JCT - SB

STA. 146+94.75; RP 282.5
373.5' X 28.0' BRIDGE
NBI ID - I00015282+00471
MDT ID - 01255
EMERSON JCT - NB

NBI ID - U05210000+00001
MDT ID - 06974
CENTRAL AVE. WEST
NO BRIDGE WORK - THIS CONTRACT

STA. 18+58.50; RP 280.1
123.0' X 37.3' BRIDGE
NBI ID - I00015280+00941
MDT ID - 01253
5TH AVE - NB

STA. 18+36.50; RP 280.1
123.0' X 37.3' BRIDGE
NBI ID - I00015280+00942
MDT ID - 01254
5TH AVE - SB

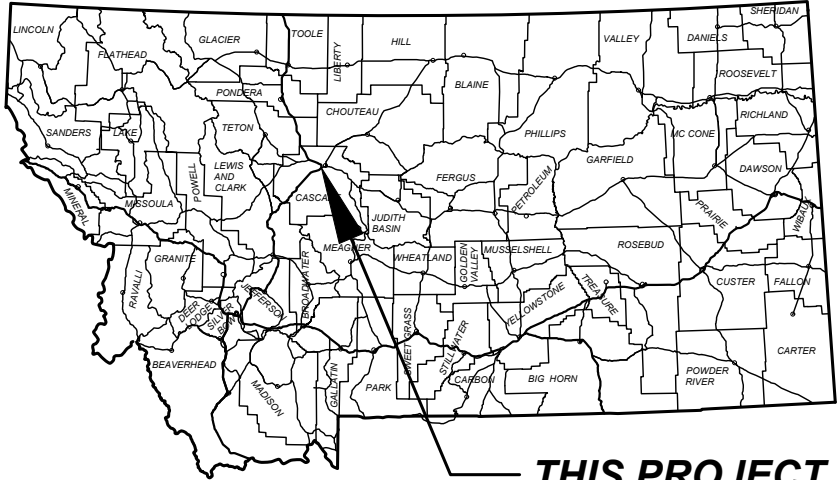
STA. 12+41.50; RP 279.9
483.0' X 28.0' BRIDGE
NBI ID - I00015279+09761
MDT ID - 01251
SUN RIVER - NB

STA. 12+41.50; RP 279.9
483.0' X 28.0' BRIDGE
NBI ID - I00015279+09762
MDT ID - 01252
SUN RIVER - SB

STA. 10+00.00
BEG. IM 15-5(157)278 =
STA. 162+90.78 NB
STA. 162+96.52 SB
ON IM 15-5(101)270

RP 285.9 TO RP 279.9

THIS CONTRACT



THIS PROJECT

PROJECT DESIGN DATA

PRESENT	2026	A.D.T. = 9,610
LETTING	2026	A.D.T. = 9,610
DESIGN	2046	A.D.T. = 11,730
		D.H.V. = 1,220
		TRUCKS = 12.0%
		V. = 50 MPH
		18 KIP ESAL'S = 654 DAILY
		ANNUAL GROWTH RATE = 1.0%

SURFACING SOURCES -
CONTRACTOR FURNISHED

STA. 962+55.00
ON IM 15-5(124)282 =
STA. 315+96.00 NB
STA. 314+94.50 SB
END IM 15-5(157)278

SHEET NO.

01

TITLE SHEET

PROJECT NAME
GREAT FALLS - NORTHWEST

COUNTY
CASCADE

PROJECT ID
IM 15-5(157)278

UPN
10544000

DESIGNED BY
S. POWELL
01/2026

REVIEWED BY
R. SNYDER
06/2026

CHECKED BY
J. SOLIDAY
06/2026

10544000RDTTL001.DWG



ROAD PLANS

7/9/2026 9:23 AM

TABLE OF CONTENTS

NOTES

ROAD PLANS

SHEET NO.

BASIS OF PLAN QUANTITIES

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.

TITLE SHEET

1

TABLE OF CONTENTS

2

NOTES

2

TYPICAL SECTIONS

3

SUMMARIES

4-6

SURFACING

4

ADDITIONAL SURFACING

5

CRACK SEALING

6

BRIDGE QUANTITIES

6

PAVEMENT MARKINGS

6

DETAILS

7-8

CENTRAL AVE W INTERCHANGE RAMPS

7

EMERSON JCT. INTERCHANGE RAMPS

8

AS-BUILTS

IM 15-5(101)270
IM 15-5(124)282

PROJECT STATIONING

THIS PROJECT WAS RESTATIONED FROM THE ABOVE AS-BUILTS; ALL LOCATIONS ARE APPROXIMATE

SHEET NO.

02

TABLE OF CONTENTS &
NOTES

PROJECT NAME
GREAT FALLS - NORTHWEST

COUNTY

CASCADE

PROJECT ID

IM 15-5(157)278

UPN

10544000



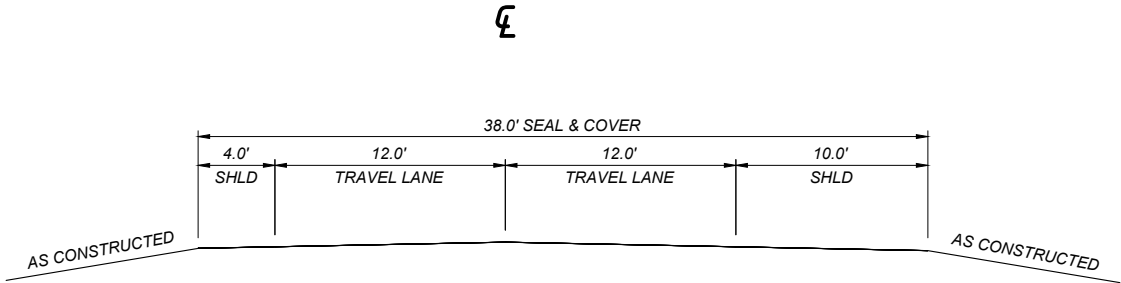
ROAD PLANS

7/9/2026 9:23 AM

10544000RDTTL001.DWG

TYPICAL SECTION NO. 1

MAINLINE
(NORTHBOUND - REVERSE FOR SOUTHBOUND)



QUANTITIES (ONE DIRECTION ONLY)			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	COVER		EMULSIFIED ASPHALT SEAL
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		

NORTHBOUND

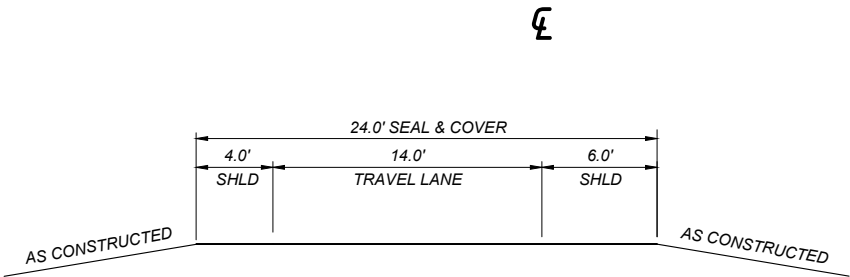
14+85.00 BE TO 17+97.00 BE
19+20.00 BE TO 145+08.00 BE
148+81.50 BE TO 315+96.00

SOUTHBOUND

14+83.00 BE TO 17+75.00 BE
18+98.00 BE TO 145+28.00 BE
149+06.50 BE TO 314+94.50

TYPICAL SECTION NO. 2

INTERCHANGE RAMP
(NORTHBOUND - REVERSE FOR SOUTHBOUND)



QUANTITIES			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	COVER		EMULSIFIED ASPHALT SEAL
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		

NORTHBOUND

CENTRAL AVE INTERCHANGE - RAMP "C-1"

28+26.00 TO 30+36.00 TRANS. FROM SHOULDER I-15
30+36.00 TO 41+05.00

CENTRAL AVE INTERCHANGE - RAMP "C-2"

45+22.00 TO 53+46.00
53+46.00 TO 61+95.00 TRANS. TO SHOULDER I-15

EMERSON JCT. INTERCHANGE - RAMP "E-1"

140+05.00 TO 142+71.00 TRANS. FROM SHOULDER VAUGHN RD
142+71.00 TO 154+15.00
154+15.00 TO 164+76.00 TRANS. TO SHOULDER I-15

SOUTHBOUND

CENTRAL AVE INTERCHANGE - RAMP "C-3"

26+18.00 TO 33+96.00 TRANS. FROM SHOULDER I-15
33+96.00 TO 41+77.00

CENTRAL AVE INTERCHANGE - RAMP "C-4"

45+55.00 TO 53+50.00
53+50.00 TO 56+23.00 TRANS. TO SHOULDER I-15

SHEET NO.

03

TYPICAL SECTIONS

PROJECT NAME
GREAT FALLS - NORTHWEST

COUNTY
CASCADE

PROJECT ID
IM 15-5(157)278

UPN
10544000

DESIGNED BY
S. POWELL

REVIEWED BY
R. SNYDER

CHECKED BY
J. SOLIDAY

10544000RDTYP001.DWG



ROAD PLANS

7/9/2026 9:25 AM

SURFACING									
STATION		linear feet				FOR	AGGREGATE	BITUMINOUS MATERIAL	REMARKS
		GROSS	NET	+	-		sq. yards	tons	
							COVER TYPE II	EMULSIFIED ASPHALT SEAL CHFRS-2P	
FROM	TO								
NORTHBOUND									
14+83.00 BE	17+97.00 BE	314.00	314.00				1,325	2.4	TYP. NO. 1
17+97.00 BE	19+20.00 BE	123.00			123.00	BRIDGE			
19+20.00 BE	145+08.00 BE	12,588.00	12,588.00				53,121	94.4	TYP. NO. 1
145+08.00 BE	148+81.50 BE	373.50			373.50	BRIDGE			
148+81.50 BE	315+96.00	16,714.50	16,714.50				70,535	125.4	TYP. NO. 1
SUBTOTAL		30,113.00	29,616.50		496.50		124,981	222.2	
SOUTHBOUND									
14+83.00 BE	17+75.00 BE	292.00	292.00				1,232	2.2	TYP. NO. 1
17+75.00 BE	18+98.00 BE	123.00			123.00	BRIDGE			
18+98.00 BE	145+28.00 BE	12,630.00	12,630.00				53,299	94.7	TYP. NO. 1
145+28.00 BE	149+06.50 BE	378.50			378.50	BRIDGE			
149+06.50 BE	314+94.50	16,588.00	16,588.00				70,001	124.4	TYP. NO. 1
SUBTOTAL		30,011.50	29,510.00		501.50		124,532	221.3	
						ADDITIONAL SURFACING	17,292	31.0	
TOTAL		~	~	~	~		266,805	474.5	

* ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)									
STATION		linear feet				FOR	AGGREGATE	BITUMINOUS MATERIAL	REMARKS
		GROSS	NET	+	-		sq. yards	tons	
							COVER TYPE II	EMULSIFIED ASPHALT SEAL CHFRS-2P	
FROM	TO								
NORTHBOUND									
CENTRAL AVE W. INTERCHANGE									
28+26.00	30+36.00	210.00	210.00			RAMP "C-1"	280	0.5	TRANS. FROM SHOULDER I-15 TO TYP. NO. 2
30+36.00	41+05.00	1,069.00	1,069.00			RAMP "C-1"	2,854	5.1	TYP. NO. 2
45+22.00	53+46.00	824.00	824.00			RAMP "C-2"	2,200	4.0	TYP. NO. 2
53+46.00	61+95.00	849.00	849.00			RAMP "C-2"	1,133	2.0	TRANS. FROM TYP. NO. 2 TO SHOULDER I-15
EMERSON JCT. INTERHCANGE									
140+05.00	142+71.00	266.00	266.00			RAMP "E-1"	355	0.6	TRANS. FROM SHLD. VAUGHN RD TO TYP. NO. 2
142+71.00	154+15.00	1,144.00	1,144.00			RAMP "E-1"	3,054	5.5	TYP. NO. 2
154+15.00	164+76.00	1,061.00	1,061.00			RAMP "E-1"	1,416	2.5	TRANS. FROM TYP. NO. 2 TO SHOULDER I-15
						VAUGHN RD INTERSECTION	389	0.7	AREA MEASURED ON CADD
SOUTHBOUND									
CENTRAL AVE INTERCHANGE									
26+18.00	33+96.00	778.00	778.00			RAMP "C-3"	1,039	1.9	TRANS. FROM SHOULDER I-15 TO TYP. NO. 2
33+96.00	41+77.00	781.00	781.00			RAMP "C-3"	2,085	3.7	TYP. NO. 2
45+55.00	53+50.00	795.00	795.00			RAMP "C-4"	2,123	3.8	TYP. NO. 2
53+50.00	56+23.00	273.00	273.00			RAMP "C-4"	364	0.7	TRANS. FROM TYP. NO. 2 TO SHOULDER I-15
SUBTOTAL		~	~	~	~		17,292	31.0	

* SEE DETAILS

CRACK SEALING						
STATION		TRANSVERSE & LONGITUDINAL CRACK SEALING				REMARKS
		CRACK SEALING				
		NEW	EXISTING	NEW	EXISTING	
FROM	TO	pounds	pounds	linear feet	linear feet	
10+00.00	315+96.00	61,539	1,907	123,078	15,258	NORTHBOUND, SOUTHBOUND, & RAMPS
SUBTOTAL		61,539	1,907	#	#	
TOTAL		63,446		#	#	

FOR INFORMATION ONLY

BRIDGE QUANTITIES				
MDT STRUCTURE ID	NBI STRUCTURE ID	FEATURE CROSSED	sq. yards	REMARKS
			DECK CRACK SEAL	
01251	I00015279+09761	SUN RIVER	1,502.7	NORTHBOUND
01252	I00015279+09762	SUN RIVER	1,502.7	SOUTHBOUND
01253	I00015280+00941	5TH AVE SW	509.8	NORTHBOUND
01254	I00015280+00942	5TH AVE SW	509.8	SOUTHBOUND
01255	I00015282+05471	EMERSON JCT.	1,162.0	NORTHBOUND
01256	I00015282+05472	EMERSON JCT.	1,177.6	SOUTHBOUND
TOTAL			6364.6	

PAVEMENT MARKINGS				
ITEM	UNIT	INTERIM APPLICA-TION #	FINAL APPLICA-TION	TOTAL
STRIPING - WHITE PAINT	gallon	289		289
STRIPING - YELLOW PAINT	gallon	227		227
WORDS & SYMBOLS - WHITE PAINT	gallon	8		8
WORDS & SYMBOLS - YELLOW PAINT	gallon	1		1
STRIPING - WHITE EPOXY	gallon		386	386
STRIPING - YELLOW EPOXY	gallon		302	302
WORDS & SYMBOLS - WHITE EPOXY	gallon		10	10
WORDS & SYMBOLS - YELLOW EPOXY	gallon		1	1
CURB MARKING - YELLOW EPOXY	gallon		73	73
FINAL SWEEP AND BROOM	course mile			12

BASED ON 1 APPLICATION.

SHEET NO.
06

SUMMARY FRAMES

PROJECT NAME
GREAT FALLS - NORTHWEST

COUNTY
CASCADE

PROJECT ID
IM 15-5(157)278

UPN
10544000

DESIGNED BY
S. POWELL

REVIEWED BY
R. SNYDER

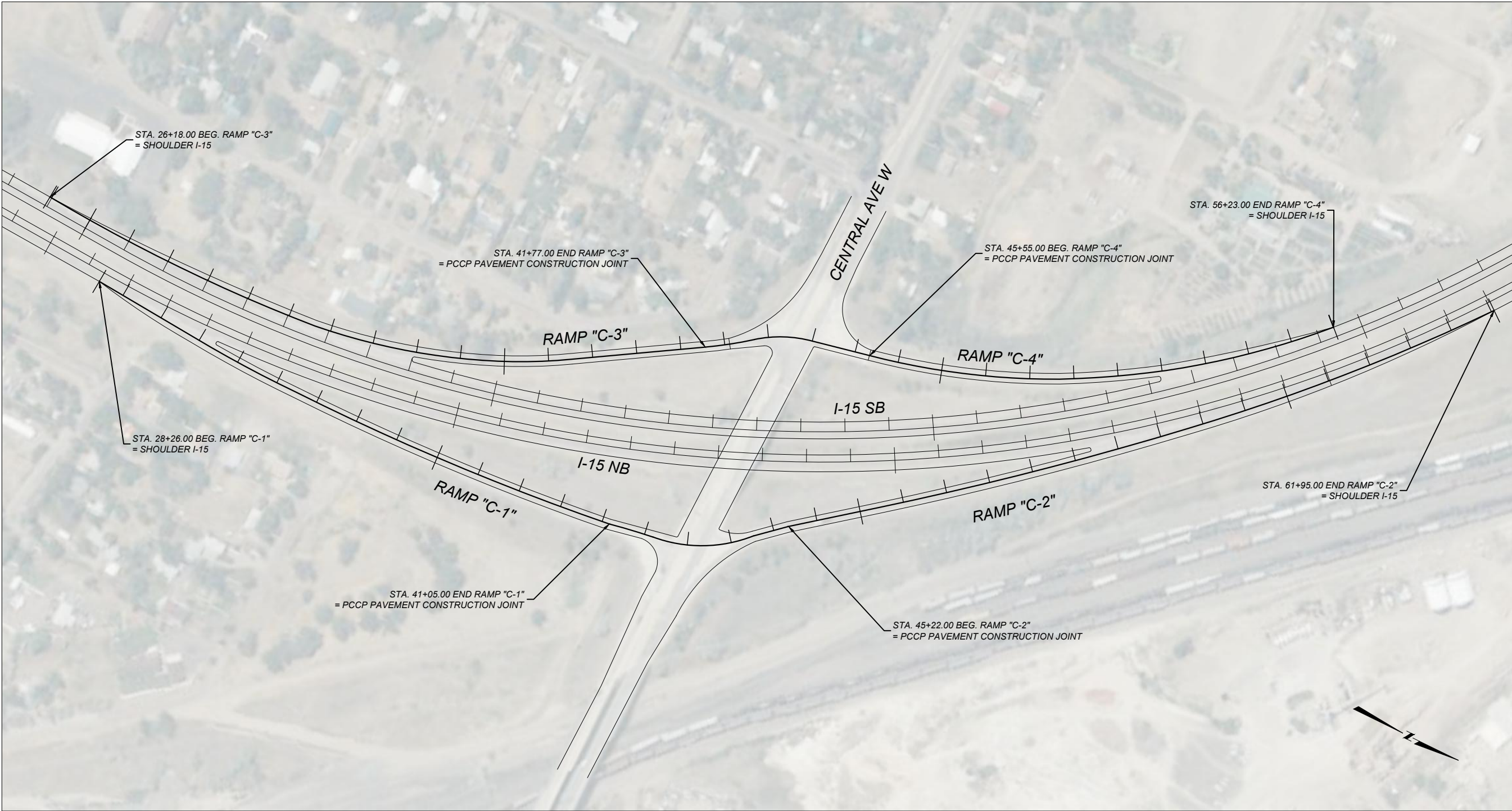
CHECKED BY
J. SOLIDAY

DATE
01/2026
06/2026
06/2026

MONTANA
Department of Transportation

ROAD PLANS

10544000RDSUM001.DWG
7/14/2026 9:38 AM



SHEET NO.		07		
CENTRAL AVE W		INTERCHANGE RAMPS DETAIL		
 MONTANA Department of Transportation ROAD PLANS	DESIGNED BY	PROJECT NAME		
	S. POWELL	01/2026	GREAT FALLS - NORTHWEST	
	REVIEWED BY	COUNTY		
	R. SNYDER	CASCADE		
	CHECKED BY	PROJECT ID		
	J. SOLIDAY	IM 15-5(157) 278		
7/14/2026 9:38 AM		UPN		
10544000RDEET001.DWG		10544000		



SHEET NO.		08		EMERSON JCT. INTERCHANGE RAMPS DETAIL	
 ROAD PLANS	DESIGNED BY S. POWELL		PROJECT NAME GREAT FALLS - NORTHWEST		
	REVIEWED BY R. SNYDER		COUNTY CASCADE		
	CHECKED BY J. SOLIDAY		PROJECT ID IM 15-5(157)278		
			UPN 10544000		
7/14/2026 9:38 AM		10544000RDEDT001.DWG			