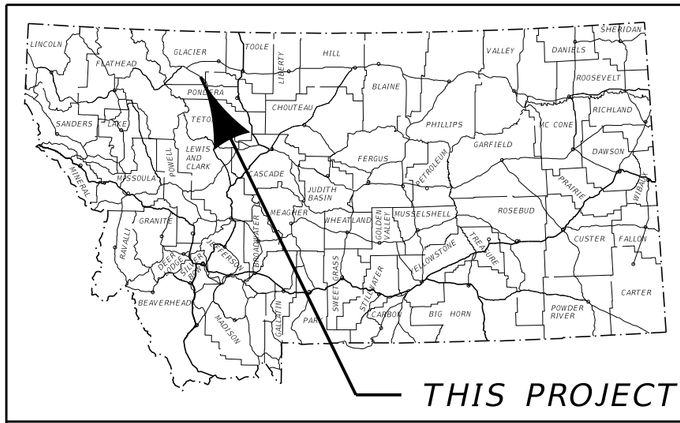
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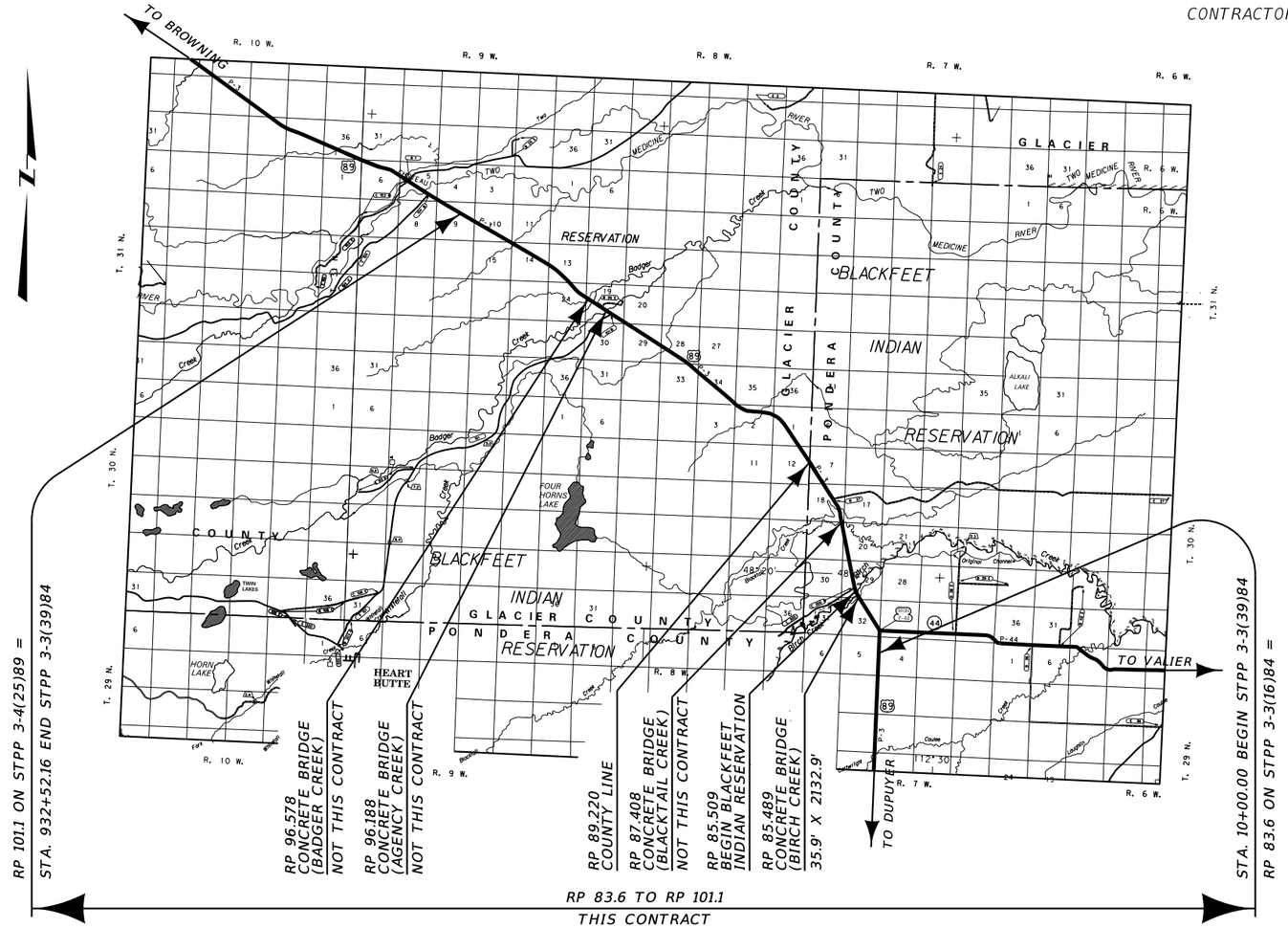
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPP 3-3(39)84
SCRUB SEAL, FOG SEAL, BRIDGE DECK SEAL
JCT MT-44 - NORTHWEST (US-89)
PONDERA & GLACIER COUNTIES

PROJECT DESIGN DATA	
PRESENT 2021	A.D.T. = 1,160
LETTING 2023	A.D.T. = 1,180
DESIGN 2043	A.D.T. = 1,440
	D.H.V. = 240
	TRUCKS = 10.5%
	V. = 55 MPH
	18 KIP ESAL'S = 43
	GROWTH RATE = 1.0%

LENGTH 17.5 MILES

SURFACING SOURCES -
CONTRACTOR FURNISHED



3	MONTANA Department of Transportation	C:\DGN\9958000rdttl001.dgn	DESIGNED BY	R. KUNDA	9/13/2022	ROAD PLANS
2		3/14/2023	REVIEWED BY	R. SNYDER	9/13/2022	
		1:05:38 PM CPS - U1716	CHECKED BY	J. SABOL	3/7/2023	UPN 9958000

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
SCRUB SEAL EMULSION	= 0.42 GAL. PER SQ.YARD
SCRUB SEAL COVER	= 25 LBS. PER SQ.YARD
EMULSIFIED ASPHALT – FOG SEAL (S & C)	= 0.075 GAL. PER SQ.YARD (UNDILUTED)

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND MAY EXIST 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 IS THE RESPONSIBILITY OF THE CONTRACTOR.

AS BUILTS

F 236(6)
F 190(6)
F 190(8)
F 190(7)
STPP 3-3(16)84
STPP 3-4(7)89
STPP 3-4(25)89

PAVEMENT MARKINGS

EXISTING PAVEMENT MARKING ARE IN THE FINAL LOCATION UNLESS ADJUSTED BY THE PROJECT MANAGER. PRESERVE AND REPLACE ALL STRIPING INCLUDING WORDS AND SYMBOLS IN THEIR ORIGINAL LOCATION.

LINEAR DATA

LENGTH OF ROADWAY IN PONDERA COUNTY	2 LANE RURAL	9,191.08 ft
LENGTH OF ROADWAY IN PONDERA COUNTY (BLACKFEET INDIAN RES.)	2 LANE RURAL	19,447.68 ft
LENGTH OF ROADWAY IN PONDERA COUNTY	4 LANE RURAL	528.00 ft
LENGTH OF BRIDGE IN PONDERA COUNTY		214.00 ft
LENGTH OF BRIDGE IN PONDERA COUNTY (NOT THIS CONTRACT)		145.00 ft
LENGTH OF ROADWAY IN GLACIER COUNTY (BLACKFEET INDIAN RES.)	2 LANE RURAL	62,347.40 ft
LENGTH OF BRIDGES IN GLACIER COUNTY (NOT THIS CONTRACT)		379.00 ft

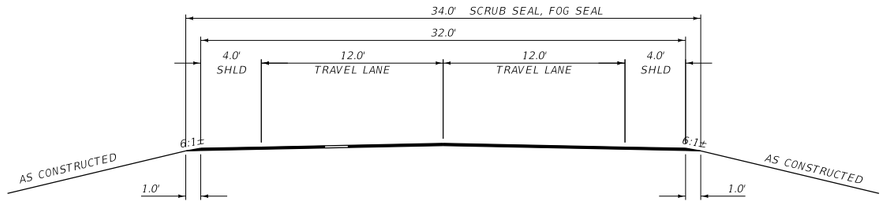
TOTAL LENGTH OF ROADWAY PONDERA COUNTY	29,166.76 ft
TOTAL LENGTH OF ROADWAY GLACIER COUNTY	62,347.40 ft
TOTAL LENGTH OF ROADWAY NON-INDIAN RESERVATION	9,719.08 ft
TOTAL LENGTH OF ROADWAY BLACKFEET INDIAN RESERVATION	81,795.08 ft
TOTAL LENGTH OF ROADWAY 2 LANE RURAL	90,986.16 ft
TOTAL LENGTH OF ROADWAY 4 LANE RURAL	528.00 ft
TOTAL LENGTH OF BRIDGE	214.00 ft
TOTAL LENGTH OF BRIDGES (NOT THIS CONTRACT)	524.00 ft
TOTAL LENGTH OF STPP 3-3(39)84	92,252.16 ft

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TYPICAL SECTION NO. 1

MAINLINE

10+00.00	TO	44+42.56	
44+42.56	TO	46+11.52	TRANSITION TYP. NO. 1 TO TYP. NO. 2
53+50.72	TO	83+74.00	
83+74.00	TO	85+84.00	TRANSITION TYP. NO. 1 TO TYP. NO. 6
88+94.00	TO	106+72.96	
106+72.96	TO	107+19.08 B.E.	TRANSITION TYP. NO. 1 TO TYP. NO. 3
109+79.20	TO	208+83.26 B.E.	
210+28.26 B.E.	TO	305+25.76	THEN TO TYP. NO. 4

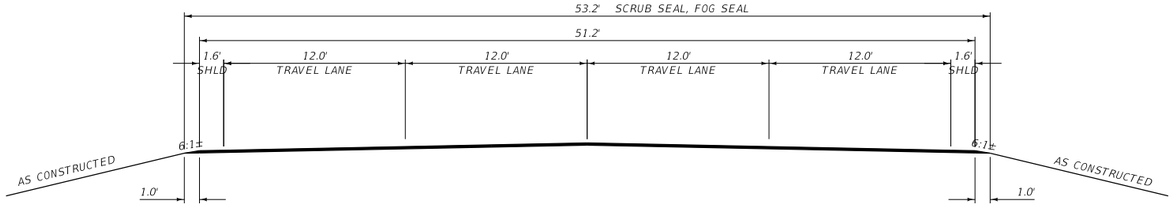


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	SCRUB SEAL COVER			SCRUB SEAL EMULSION	FOG SEAL	
AREA square feet			square yards PER STATION	378	378	
cubic yards PER STATION			tons PER STATION	0.67		
tons PER STATION			gals. PER STATION		28	
square yards PER STATION	378					

TYPICAL SECTION NO. 2

MAINLINE

46+11.52	TO	51+39.52	
51+39.52	TO	53+50.72	TRANSITION TYP. NO. 2 TO TYP. NO. 1



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	SCRUB SEAL COVER			SCRUB SEAL EMULSION	FOG SEAL	
AREA square feet			square yards PER STATION	591	591	
cubic yards PER STATION			tons PER STATION	1.05		
tons PER STATION			gals. PER STATION		44	
square yards PER STATION	591					

3	MONTANA Department of Transportation	C:\DGN\9958000rdtyp001.dgn	DESIGNED BY	R. KUNDA	9/13/2022	ROAD PLANS
2		3/14/2023	REVIEWED BY	R. SNYDER	9/13/2022	
		1:05:53 PM CPS - U1716	CHECKED BY	J. SABOL	3/7/2023	PONDERA & GLACIER COUNTIES

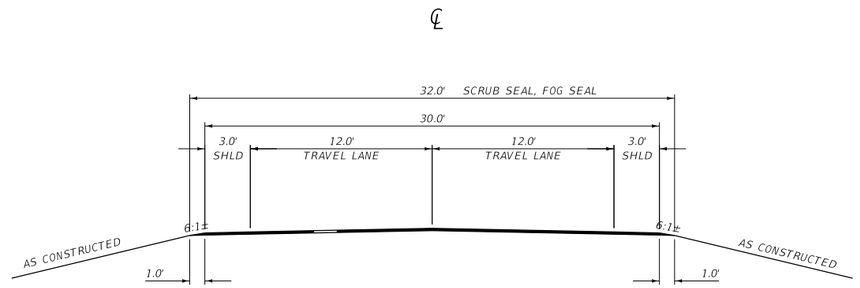
JCT MT-44 - NORTHWEST (US-89)		STPP 3-3(39)84
	UPN 9958000	3

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TYPICAL SECTION NO. 3

MAINLINE

107+19.08 B.E. ONLY
109+33.08 B.E. TO 109+79.20 TRANSITION TYP. NO. 3 TO TYP. NO. 1

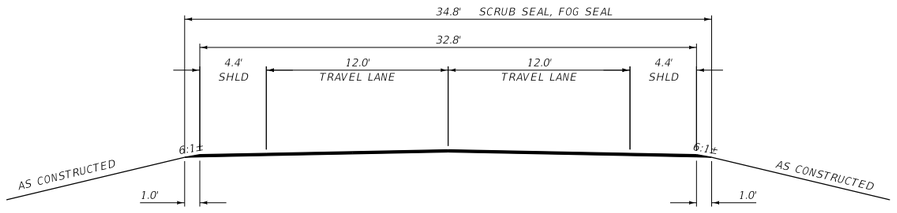


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	SCRUB SEAL COVER			SCRUB SEAL EMULSION	FOG SEAL	
AREA square feet			square yards PER STATION	356	356	
cubic yards PER STATION			tons PER STATION	0.64		
tons PER STATION			gals. PER STATION		27	
square yards PER STATION	356					

TYPICAL SECTION NO. 4

MAINLINE

305+25.76 TO 672+81.30 B.E.
673+52.30 B.E. TO 686+10.40
686+10.40 TO 686+79.04 TRANSITION TYP. NO. 4 TO TYP. NO. 5
695+30.00 B.E. TO 932+52.16



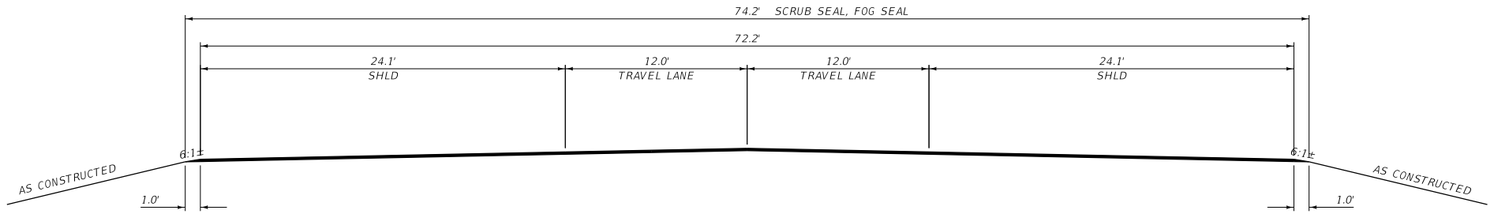
QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	SCRUB SEAL COVER			SCRUB SEAL EMULSION	FOG SEAL	
AREA square feet			square yards PER STATION	387	387	
cubic yards PER STATION			tons PER STATION	0.69		
tons PER STATION			gals. PER STATION		29	
square yards PER STATION	387					

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TYPICAL SECTION NO. 5

MAINLINE
HISTORICAL PULLOUT

686+79.04 TO 691+01.44
691+01.44 TO 692+22.00 B.E. TRANSITION TYP. NO. 5 TO TYP. NO. 4

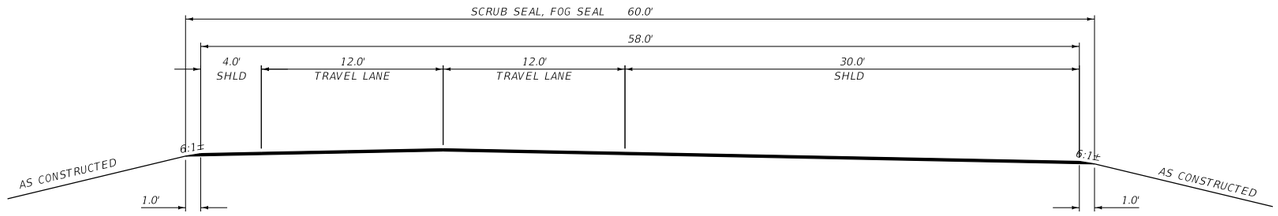


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	SCRUB SEAL COVER			SCRUB SEAL EMULSION	FOG SEAL	
AREA square feet			square yards PER STATION	824	824	
cubic yards PER STATION			tons PER STATION	1.47		
tons PER STATION			gals. PER STATION		62	
square yards PER STATION	824					

TYPICAL SECTION NO. 6

MAINLINE
HISTORICAL PULLOUT

85+84.00 TO 86+84.00
86+84.00 TO 88+94.00 TRANSITION TYP. NO. 6 TO TYP. NO. 1



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	SCRUB SEAL COVER			SCRUB SEAL EMULSION	FOG SEAL	
AREA square feet			square yards PER STATION	667	667	
cubic yards PER STATION			tons PER STATION	1.19		
tons PER STATION			gals. PER STATION		50	
square yards PER STATION	667					

2	MONTANA Department of Transportation	C:\DGN\9958000rdtyp001.dgn	DESIGNED BY	R. KUNDA	9/13/2022	ROAD PLANS	JCT MT-44 - NORTHWEST (US-89) / STPP 3-3(39)84
1		3/14/2023	REVIEWED BY	R. SNYDER	9/13/2022		
		1:06:02 PM CPS - U1716	CHECKED BY	J. SABOL	3/7/2023	PONDERA & GLACIER COUNTIES	UPN 9958000 / 5

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SUMMARY

SURFACING

REFERENCE POST		linear feet				FOR	AGGREGATE	BITUMINOUS MATERIAL		REMARKS
							sq. yards	tons	gallons	
FROM	TO	GROSS	NET	+	-		COVER TYPE 1 SCRUB SEAL	SCRUB SEAL EMULSION	FOG SEAL	
PONDERA COUNTY										
10+00.00	44+42.56	3,442.56	3,442.56				13,013	23.1	964	TYPICAL NO. 1
44+42.56	46+11.52	168.96	168.96				819	1.5	61	TRANS. TYP. NO. 1 TO TYP. NO. 2
46+11.52	51+39.52	528.00	528.00				3,120	5.5	232	TYPICAL NO. 2
51+39.52	53+50.72	211.20	211.20				1,023	1.8	76	TRANS. TYP. NO. 2 TO TYP. NO. 1
53+50.72	83+74.00	3,023.28	3,023.28				11,428	20.3	847	TYPICAL NO. 1
83+74.00	85+84.00	210.00	210.00				1,097	2.0	82	TRANS. TYP. NO. 1 TO TYP. NO. 6
85+84.00	86+84.00	100.00	100.00				667	1.2	50	TYPICAL NO. 6
86+84.00	88+94.00	210.00	210.00				1,097	2.0	82	TRANS. TYP. NO. 6 TO TYP. NO. 1
88+94.00	106+72.96	1,778.96	1,778.96				6,724	11.9	498	TYPICAL NO. 1
106+72.96	107+19.08 B.E.	46.12	46.12				169	0.3	13	TRANS. TYP. NO. 1 TO TYP. NO. 3
107+19.08 B.E.	109+33.08 B.E.	214.00			214.00	BRIDGE				
109+33.08 B.E.	109+79.20	46.12	46.12				169	0.3	13	TRANS. TYP. NO. 3 TO TYP. NO. 1
109+79.20	208+83.26 B.E.	9,904.06	9,904.06				37,437	66.4	2,773	TYPICAL NO. 1
208+83.26 B.E.	210+28.26 B.E.	145.00			145.00	BRIDGE				
210+28.26 B.E.	305+25.76	9,497.50	9,497.50				35,901	63.6	2,659	TYPICAL NO. 1
GLACIER COUNTY										
305+25.76	672+81.30 B.E.	36,755.54	36,755.54				142,244	253.6	10,659	TYPICAL NO. 4
672+81.30 B.E.	673+52.30 B.E.	71.00			71.00	BRIDGE				
673+52.30 B.E.	686+10.40	1,258.10	1,258.10				4,869	8.7	365	TYPICAL NO. 4
686+10.40	686+79.04	68.64	68.64				416	0.7	31	TRANS. TYP. NO. 4 TO TYP. NO. 5
686+79.04	691+01.44	422.40	422.40				3,481	6.2	262	TYPICAL NO. 5
691+01.44	692+22.00 B.E.	120.56	120.56				730	1.3	55	TRANS. TYP. NO. 5 TO TYP. NO. 4
692+22.00 B.E.	695+30.00 B.E.	308.00			308.00	BRIDGE				
695+30.00 B.E.	932+52.16	23,722.16	23,722.16				91,805	163.7	6,879	TYPICAL NO. 4
TOTAL		92,252.16	91,514.16		738.00		356,209	634.1	26,601	

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING -WHITE PAINT	gallon	631		631
STRIPING -YELLOW PAINT	gallon	224		224
WORDS & SYMBOLS -WHITE PAINT	gallon	2		2
STRIPING -WHITE EPOXY	gallon		841	841
STRIPING -YELLOW EPOXY	gallon		299	299
WORDS & SYMBOLS -WHITE EPOXY	gallon		2	2

#BASED ON 1 APPLICATIONS.

BRIDGE ITEMS

STATION		square yards	REMARKS
		BRIDGE DECK CRACK SEAL	
FROM	TO		
107+19.08 BE	109+33.08 BE	713.9	BIRCH CREEK- BRIDGE ID 05196
TOTAL		713.9	