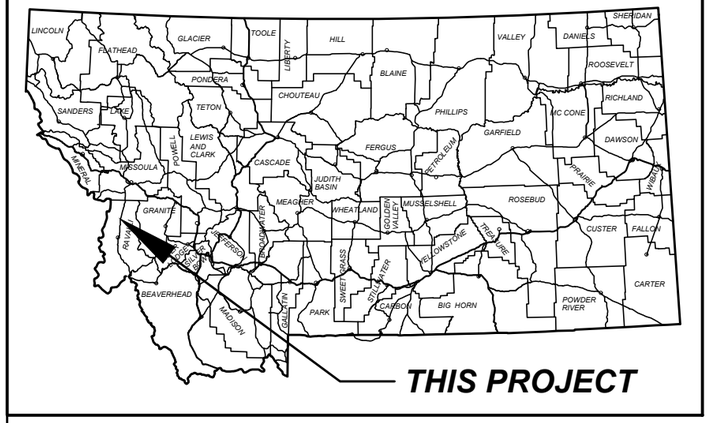
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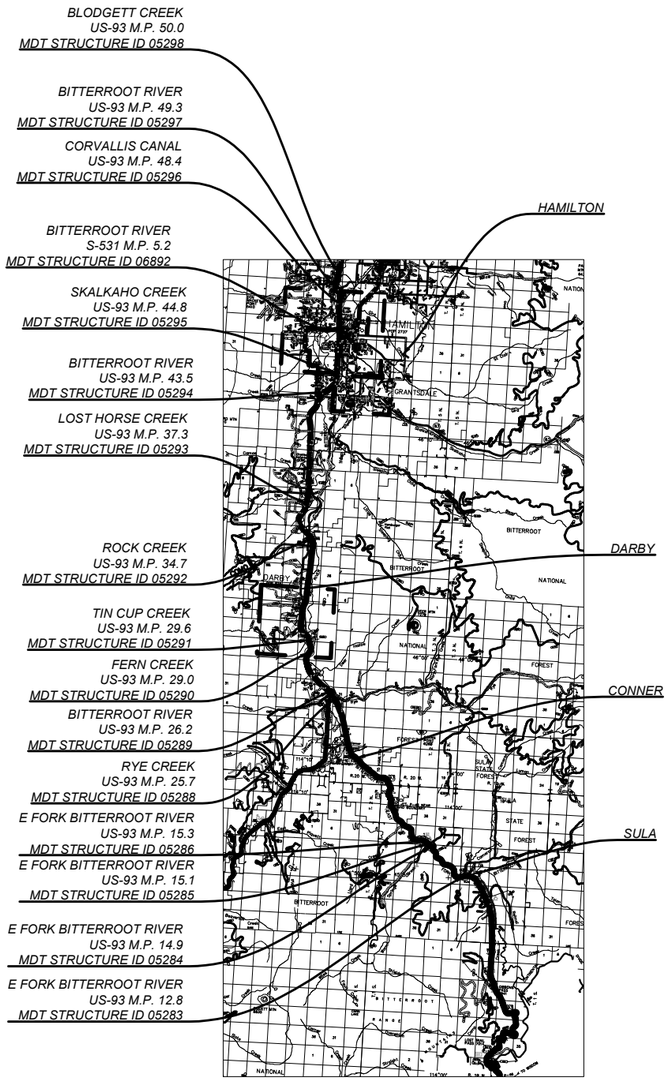
MONTANA DEPARTMENT OF TRANSPORTATION

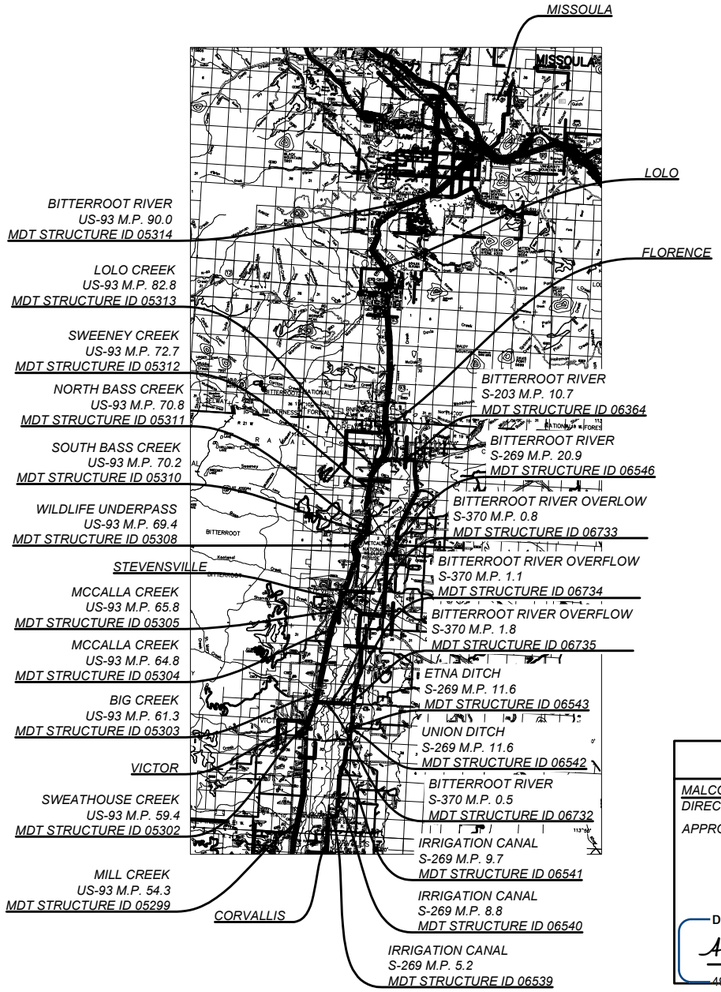
FEDERAL AID PROJECT NHPB-STPB STWD(773)

MINOR BRIDGE REHABILITATION

D1 BRIDGE PRESERVATION

MISSOULA & RAVALLI COUNTIES





N

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	STPB STWD(772)

MONTANA
DEPARTMENT OF TRANSPORTATION

MALCOLM "MACK" LONG
DIRECTOR OF TRANSPORTATION

APPROVED BY:

BRIDGE ENGINEER

MONTANA
ANDIN CULLISON
39000PE
LICENSED PROFESSIONAL ENGINEER

DocuSigned by:
Andin Cullison
49439C814AE44D1...

11/7/2023
DATE

SHEET NO. 1

TITLE

PROJECT NAME: D1 BRIDGE PRESERVATION
COUNTY: MISSOULA & RAVALLI
PROJECT ID: NHPB-STPB STWD(773)
UPN: 9820000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	L.M.M.	T.J.B.	
	2-8-23	1-25-23	

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MONTANA
Department of Transportation

BRIDGE PLANS

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DETAILS	4
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BRIDGE PLANS	
BRIDGE PLANS	B1 - B4

SHEET NO.
2

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MONTANA
Department of Transportation

ROAD PLANS

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PROJECT NAME	D1 BRIDGE PRESERVATION
COUNTY	MISSOULA & RAVALLI
PROJECT ID	NHPB-STPB STWD(773)
UPN	9820000
CHECKED BY	
REVIEWED BY	L.M.M. 2-8-23
DESIGNED BY	T.J.B. 1-30-23

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SUMMARY

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE EPOXY	gallon		59	59
STRIPING - YELLOW EPOXY	gallon		59	59
WORDS & SYMBOLS - WHITE EPOXY	gallon		1	1
WORDS & SYMBOLS - YELLOW EPOXY	gallon		8	8
CURB MARKING - YELLOW EPOXY	gallon		3	3

BASED ON 1 APPLICATIONS.

CONCRETE BARRIER RAIL

RP			linear feet		each		MONTANA STRUCTURE ID	NBI STRUCTURE ID	REMARKS
ROUTE	FROM	TO	TEMPORARY BARRIER RAIL	RESET TEMPORARY BARRIER RAIL	TEMPORARY IMPACT ATTENUATOR	RESET TEMPORARY IMPACT ATTENUATOR			
N-7	43.67	43.73	192	192	2	2	5294	P00007043+06661	BITTERROOT RIVER
S-370	0.46	0.54	258	258	2	2	6732	S00370000+05361	BITTERROOT RIVER
S-531	5.17	5.23	192	192	2	2	6892	S00531005+04001	BITTERROOT RIVER
TOTAL			642	642	6	6	~	~	

SHEET NO. 3

SUMMARY

PROJECT NAME: D1 BRIDGE PRESERVATION

COUNTY: MISSOULA & RAVALLI

PROJECT ID: NHPB-STPB STWD(773)

UPN: 9820000

MONTANA Department of Transportation

ROAD PLANS

CHECKED BY		
REVIEWED BY	L.M.M.	2-8-23
DESIGNED BY	T.J.B.	1-30-23

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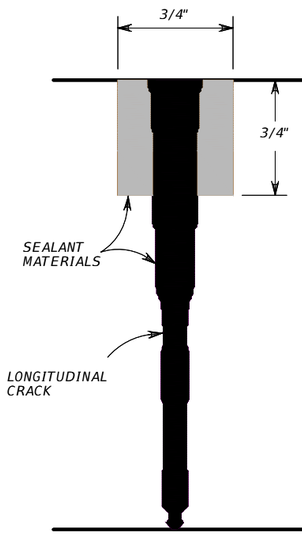
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CRACKS 1/8" TO 1" WIDE

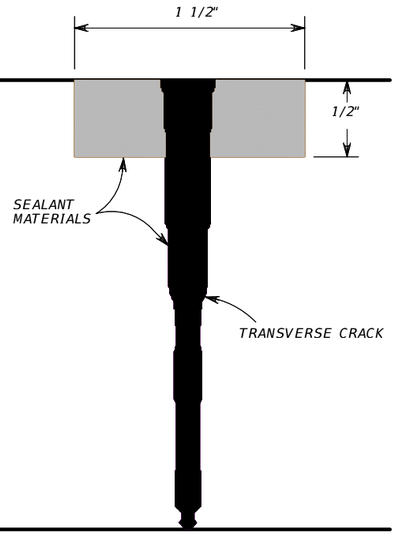
LONGITUDINAL CRACK

ROUT 3/4" WIDE x 3/4" DEEP
PRIOR TO APPLYING SEALANT



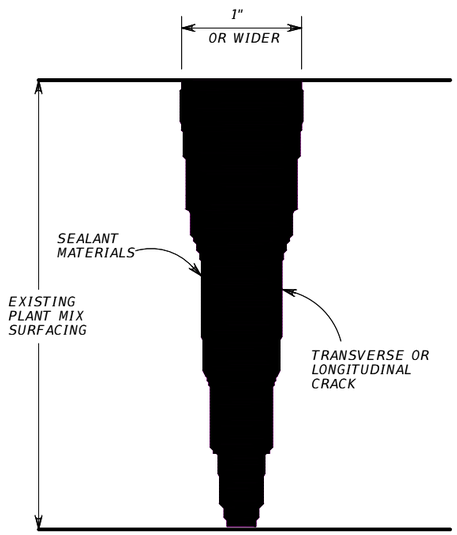
TRANSVERSE CRACK

ROUT 1 1/2" WIDE x 1/2" DEEP
PRIOR TO APPLYING SEALANT



CRACKS 1" WIDE & LARGER

NO ROUTING REQUIRED
LEAVE EXISTING CRACK SEAL IN PLACE



SHEET NO. 4

CRACK SEALING

PROJECT NAME **D1 BRIDGE PRESERVATION**
COUNTY **MISSOULA & RAVALLI**
PROJECT ID **NHPB-STPB STWD(773)**
UPN **9820000**

MONTANA Department of Transportation

ROAD PLANS

CHECKED BY		
REVIEWED BY	L.M.M.	2-8-23
DESIGNED BY	T.J.B.	2-1-23

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ASSOCIATED PROJECT AGREEMENT NUMBERS	
P.E.	STPB STWD(772)

MONTANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS AND QUANTITIES

FEDERAL AID PROJECT NHPB-STPB STWD(773)

D1 BRIDGE PRESERVATION

MISSOULA & RAVALLI COUNTY

SCALES SHOWN ON BRIDGE PLANS SHEETS
ARE FOR HALF SIZE (11X17) PRINTS
FULL SIZE PRINTS ARE APPROXIMATELY TWICE
ORIGINAL SCALE

LIST OF DRAWINGS

SHEET NO.	DWG. NO.	TITLE
B1	28168	LIST OF DRAWINGS
B2	28169	ESTIMATED BRIDGE PLAN QUANTITIES
B3	28170	BRIDGE WORK SUMMARY AND GENERAL NOTES
B4	28171	BRIDGE WORK DETAILS

SHEET NO.
B1

LIST OF DRAWINGS

REVISED				CHECKED	J.M.M.	2-8-23
REVISED				DRAWN	T.J.B.	1-17-23
REVISED				DESIGNED	JLL / TJB	1-17-23
REVISED						

MONTANA Department of Transportation
BRIDGE BUREAU

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UPN NUMBER
9820000

DRAWING NO.
28168

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ESTIMATED BRIDGE PLAN QUANTITIES

MDT STRUCTURE ID	NBI STRUCTURE ID	LOCATION	FEATURE INTERSECTED	EXPANSION JOINT -PRECOMPRESSED (LNFT)	BRIDGE DECK CRACK SEAL (SQYD)	CLASS A BRIDGE DECK REPAIR (SQYD)	CRACK FILLING - MASTIC (LB)
5283	P00007012+09181	S SULA	E FORK BITTERROOT RIVER		634.7		1524.0
5284	P00007015+01901	S SULA	E FORK BITTERROOT RIVER		881.5		1524.0
5285	P00007015+03501	S SULA	E FORK BITTERROOT RIVER		911.2		1016.0
5286	P00007015+05501	7M SE CONNER	E FORK BITTERROOT RIVER		780.5		1524.0
5288	P00007025+09211	5M SE DARBY	RYE CREEK		266.4		1032.0
5289	P00007026+04491	4M SE DARBY	BITTERROOT RIVER		1067.2		1032.0
5290	P00007029+01291	1M S DARBY	FERN CREEK		200.9		1032.0
5291	P00007029+08941	1M S DARBY	TIN CUP CREEK		292.6		1032.0
5292	P00007034+09841	4M N DARBY	ROCK CREEK		441.0		1032.0
5293	P00007037+05961	7M N DARBY	LOST HORSE CREEK		711.8		1032.0
5294	P00007043+06661	3M S HAMILTON	BITTERROOT RIVER		939.2	10.0	
5295	P00007045+00421	2M S HAMILTON	SKALKAHO CREEK		* 922.2		
5296	P00007048+06151	1M N HAMILTON	CORVALLIS CANAL		* 603.6		
5297	P00007049+05031	2M N HAMILTON	BITTERROOT RIVER		* 4836.6		
5298	P00007050+03101	2M N HAMILTON	BLODGETT CREEK		* 799.8		
5299	P00007054+05471	4M S VICTOR	MILL CREEK		* 653.1		
5302	P00007059+07291	VICTOR	SWEATHOUSE CREEK		* 878.8		
5303	P00007061+06031	2M N VICTOR	BIG CREEK		* 1496.6		
5304	P00007065+00651	5M N VICTOR	MCCALLA CREEK		* 639.0		
5305	P00007065+10081	6M N VICTOR	MCCALLA CREEK		* 747.9		
5308	P00007069+06681	3M N STEVENSVILLE	WILDLIFE UNDERPASS		* 1019.2		
5310	P00007070+05291	4M N STEVENSVILLE	SOUTH BASS CREEK		* 395.8		
5311	P00007071+00991	4M N STEVENSVILLE	NORTH BASS CREEK		* 392.2		
5312	P00007072+09591	6M N STEVENSVILLE	SWEENEY CREEK		* 502.2		
5313	P00007082+08731	LOLO	LOLO CREEK		* 1228.7		2097.0
5314	P00007090+01161	MISSOULA - BROOKS ST	BITTERROOT RIVER		* 3469.0		
6364	S00203010+06401	1M E FLORENCE	BITTERROOT RIVER		* 2100.7		
6539	S00269005+03001	CORVALLIS - EASTSIDE HWY	IRRIGATION CANAL		130.0		
6540	S00269008+09001	3M N CORVALLIS	IRRIGATION CANAL		112.7		
6541	S00269009+08001	4M N CORVALLIS	IRRIGATION CANAL		119.3		
6542	S00269011+07771	8M S STEVENSVILLE	UNION DITCH		183.3		
6543	S00269011+07841	8M S STEVENSVILLE	ETNA DITCH		73.3		
6546	S00269021+00001	1M NW STEVENSVILLE	BITTERROOT RIVER		* 1797.6		
6732	S00370000+05361	2M NE VICTOR	BITTERROOT RIVER		1570.1	10.0	
6733	S00370000+07671	2M NE VICTOR	BITTERROOT RIVER OVERFLOW	64.0	609.0		
6734	S00370001+01231	3M NE VICTOR	BITTERROOT RIVER OVERFLOW	64.0	308.0		
6735	S00370001+07691	3M S STEVENSVILLE	BITTERROOT RIVER OVERFLOW	64.0	308.0		
6892	S00531005+04001	W HAMILTON	BITTERROOT RIVER	88.5	* 1488.2	60.0	
TOTAL				280.5	34511.9	80.0	13877.0

* NOTE: Includes quantity for sidewalk.

SHEET NO. B2

ESTIMATED BRIDGE PLAN QUANTITIES

SCALE: No Scale

PROJECT NAME **D1 BRIDGE PRESERVATION**

MDT STRUCTURE ID **MULTIPLE**

FEDERAL AID PROJECT **NHPB-STPB STWD(773)**

COUNTY **MISSOULA & RAVALLI**

REVISED				CHECKED	E.M.M.	2-8-23
REVISED				DRAWN	T.J.B.	1-17-23
REVISED				DESIGNED	TJB / TJB	1-17-23

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BRIDGE BUREAU

UPN NUMBER 9820000

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BRIDGE WORK SUMMARY

MDT Structure ID	Precompressed Joint Seal	Sidewalk Deck Crack Seal	Bridge Deck Crack Seal	Class A Repair	Mastic Grade Tapering
5283			✓		✓
5284			✓		✓
5285			✓		✓
5286			✓		✓
5288			✓		✓
5289			✓		✓
5290			✓		✓
5291			✓		✓
5292			✓		✓
5293			✓		✓
5294			✓	✓	
5295		✓	✓		
5296		✓	✓		
5297		✓	✓		
5298		✓	✓		
5299		✓	✓		
5302		✓	✓		
5303		✓	✓		
5304		✓	✓		
5305		✓	✓		
5308		✓	✓		
5310		✓	✓		
5311		✓	✓		
5312		✓	✓		
5313		✓	✓		✓
5314		✓	✓		
6364		✓	✓		
6539			✓		
6540			✓		
6541			✓		
6542			✓		
6543			✓		
6546		✓	✓		
6732			✓	✓	
6733	✓		✓		
6734	✓		✓		
6735	✓		✓		
6892	✓	✓	✓	✓	

GENERAL NOTES

SPECIFICATIONS:
Plans were prepared from original drawings and as-built drawings. No additional survey information was procured for this project. Existing structure dimensions may vary from those shown on the drawings. Verify all dimensions necessary to complete the work.

The current version of the Standard and Supplemental Specifications for Road and Bridge Construction, adopted by the Montana Department of Transportation, applies.

See Standard Specifications and Special Provisions for Traffic Control and Sequence of Operations.

All dimensions are in feet and inches except as noted. Verify all necessary dimensions of the existing structures in the field before ordering materials. Obtain approval of shop plans from the State of Montana, Department of Transportation before beginning fabrication. If the dimensions and details of the existing structure are not as shown on the plans, vary construction as necessary to best suit existing conditions and the nature of the intended work.

BRIDGE DECK REPAIR:
See the bridge deck repair section of the Standard Specifications for allowable repair concrete options.

Quantities shown for Class A and B Bridge Deck Repair may vary from actual field quantities.

Do not allow traffic onto the repaired deck until the repair concrete has reached 3500-psi compressive strength minimum.

Right and Left side of the structure are referenced to increasing stationing.

Submit for approval any substitution of rapid setting Portland cement concrete for Concrete - Class Deck or Concrete - Class Structure. Traffic will not be permitted on concrete repairs until the specified strength is attained.

See Bridge Work Summary for overlay treatment at a specific location.

See Special Provisions for Polymer Overlay.

Include all costs associated with Mastic Grade Tapering in the unit price bid for Crack Filling - Mastic.

APPROACH SLAB:
All bridge deck treatments include the approach slabs unless they are called out to be removed.

Replace expansion joint seals between approach slab and backwall as shown in the details. See sheet B4.

SHEET NO.
B3

BRIDGE WORK SUMMARY AND GENERAL NOTES

SCALE: No Scale

PROJECT NAME
D1 BRIDGE PRESERVATION

MDT STRUCTURE ID
MULTIPLE

FEDERAL AID PROJECT
NHPB-STPB STWD(773)

COUNTY
MISSOULA & RAVALLI

	REVISED	REVISED	REVISED	REVISED	CHECKED	DRAWN	DESIGNED
					J.M.M.	T.J.B.	JLJ / TJB
					2-8-23	2-23-23	2-23-23

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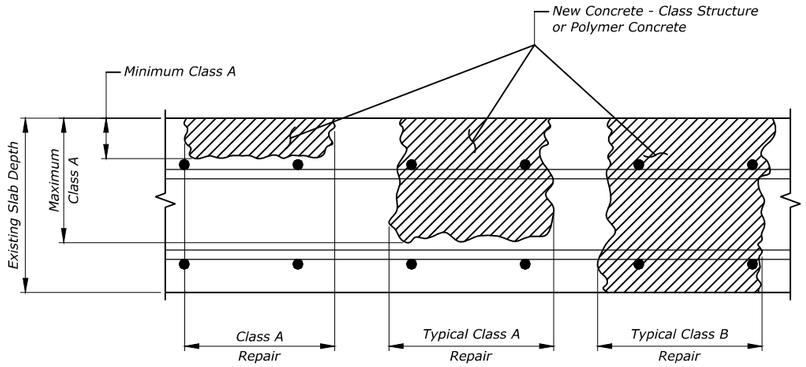
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MONTANA Department of Transportation
BRIDGE BUREAU

UPN NUMBER
9820000

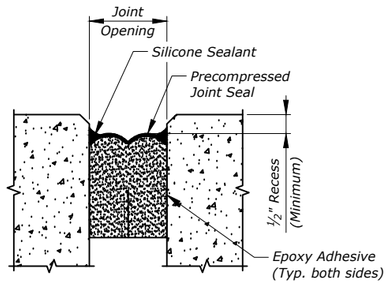
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BRIDGE DECK REPAIR AND THIN OVERLAY DEFINITION

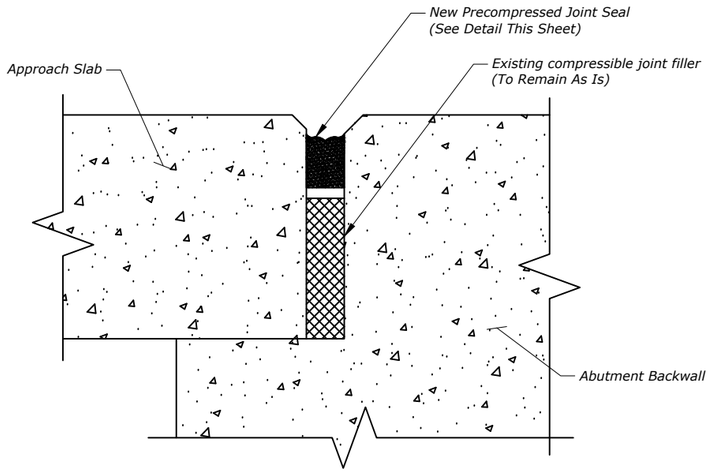
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PRECOMPRESSED JOINT SEAL DETAIL

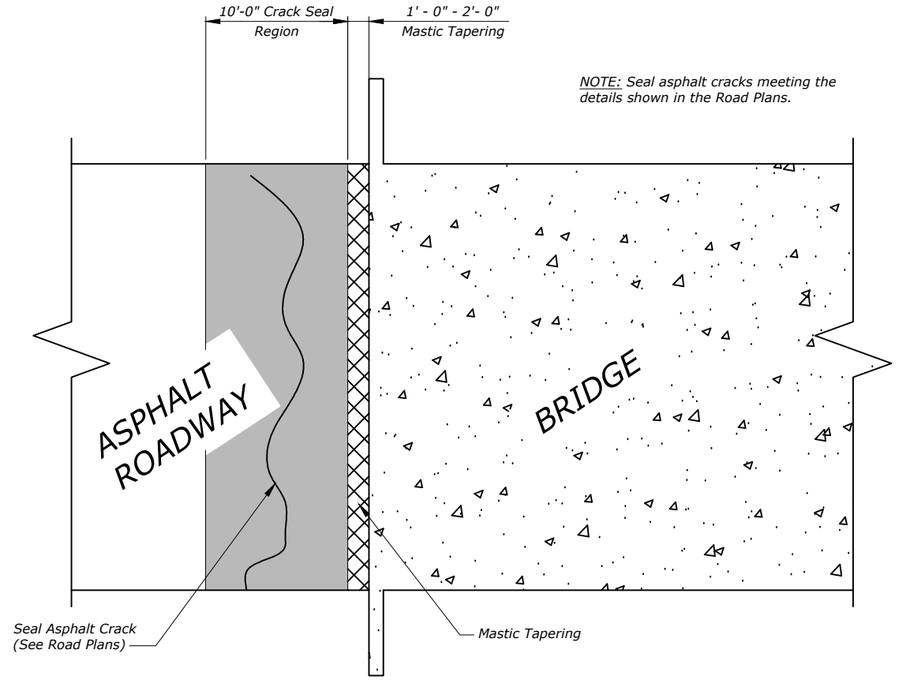
No Scale

NOTE: See Bridge Work Summary on Sheet B3 for bridge work locations.



APPROACH SLAB JOINT SEAL DETAIL

No Scale



CRACK SEAL & MASTIC TAPERING LIMITS

No Scale

SHEET NO.
B4

BRIDGE WORK DETAILS

SCALE: As Noted

PROJECT NAME
D1 BRIDGE PRESERVATION

MDT STRUCTURE ID
MULTIPLE

FEDERAL AID PROJECT
NHPB-STPB STWD(773)

COUNTY
MISSOULA & RAVALLI

REVISED		
REVISED		
REVISED		
REVISED		
CHECKED	J.M.M.	2-8-23
DRAWN	T.J.B.	1-23-23
DESIGNED	MJ / TJB	1-23-23

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MONTANA Department of Transportation

BRIDGE BUREAU

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UPN NUMBER
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