

STATE OF SOUTH DAKOTA
 DEPARTMENT OF TRANSPORTATION
 PLANS FOR PROPOSED
PROJECT IM 0903(97)172
INTERSTATE 90
JACKSON & JONES COUNTIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0903(97)172	1	39

Plotting Date: 12/10/2015



BRIDGE DECK POLYMER CHIP SEAL & JOINT MODIFICATION

PCN 035G

INDEX OF SECTIONS

- Section A: Estimate of Quantities & Environmental Commitment Notes
- Section C: Traffic Control Plans
- Section E: Structure Plans

PROJECT

DESIGN DESIGNATION I-90 EB

(MRM 172.50)

ADT (2014)	2680
ADT (2034)	3085
DHV	589.2
D	51%
T DHV	11.9%
T ADT	26.1%
V	80 MPH

DESIGN DESIGNATION I-90 WB

(MRM 201.13 & 204.13)

ADT (2014)	2930
ADT (2034)	3431
DHV	559.3
D	51%
T DHV	12.8%
T ADT	28.1%
V	80 MPH

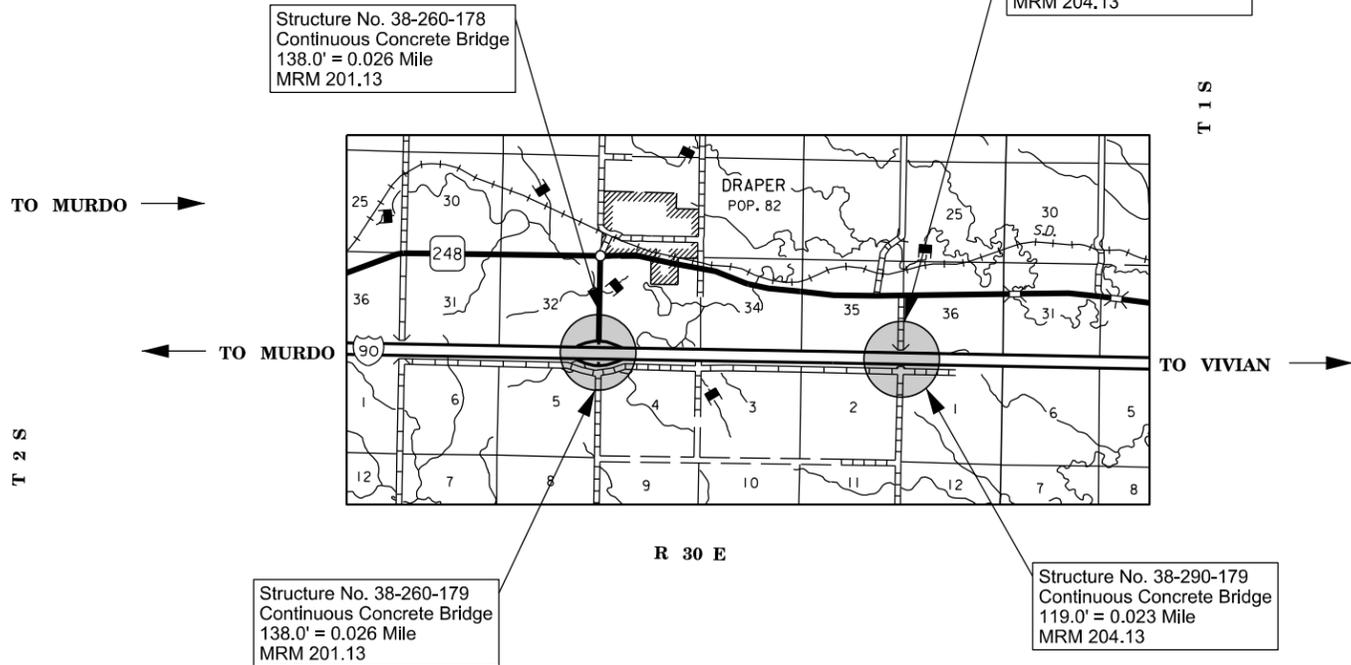
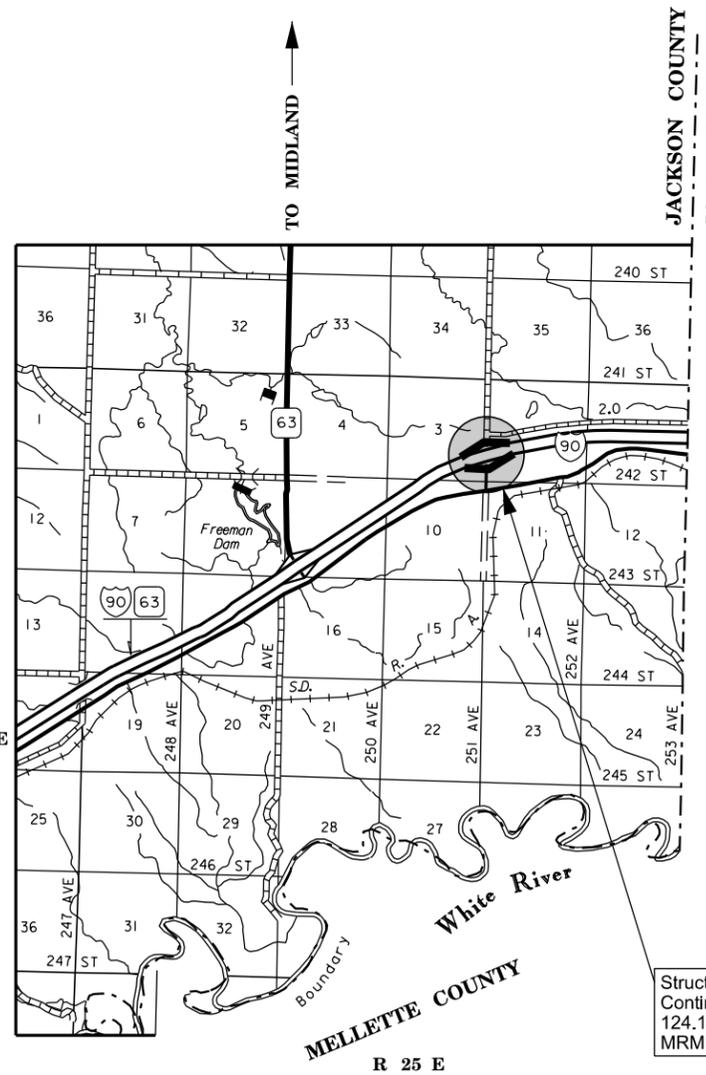
DESIGN DESIGNATION I-90 EB

(MRM 201.13 & 204.13)

ADT (2014)	2930
ADT (2034)	3431
DHV	559.3
D	51%
T DHV	13.9%
T ADT	30.6%
V	80 MPH

STORM WATER PERMIT

None Required



Structure No. 36-520-068
 Continuous Concrete Bridge
 124.1' = 0.024 Mile
 MRM 172.50

Structure No. 38-260-178
 Continuous Concrete Bridge
 138.0' = 0.026 Mile
 MRM 201.13

Structure No. 38-290-178
 Continuous Concrete Bridge
 119.0' = 0.023 Mile
 MRM 204.13

Structure No. 38-260-179
 Continuous Concrete Bridge
 138.0' = 0.026 Mile
 MRM 201.13

Structure No. 38-290-179
 Continuous Concrete Bridge
 119.0' = 0.023 Mile
 MRM 204.13

ESTIMATE OF QUANTITIES

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	IM 0903(97)172	A1	A2

SECTION C ~ TRAFFIC CONTROL

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
633E1400	Pavement Marking Paint, 4" White	1,423	Ft
633E1405	Pavement Marking Paint, 4" Yellow	1,138	Ft
634E0010	Flagging	10.0	Hour
634E0110	Traffic Control Signs	1,028	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0285	Type 3 Barricade, 8' Double Sided	6	Each
634E0310	Temporary Flexible Vertical Markers (Tabs)	5,760	Ft
634E0420	Type C Advance Warning Arrow Board	3	Each
634E0640	Temporary Pavement Marking	3,414	Ft

SECTION E ~ STRUCTURE # 38-260-178

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
460E0172	Concrete Patching Material, Bridge Deck	54.8	CuFt
491E0005	Two Coat Bridge Deck Polymer Chip Seal	578.5	SqYd
491E0110	Abrasive Blasting of Bridge Deck	578.5	SqYd
491E0120	Bridge Deck Grinding	578.5	SqYd
491E0130	Concrete Removal, Class A	4.0	SqYd
491E0140	Concrete Removal, Class B	4.0	SqYd

SECTION E ~ STRUCTURE # 38-260-179

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
460E0172	Concrete Patching Material, Bridge Deck	68.4	CuFt
491E0005	Two Coat Bridge Deck Polymer Chip Seal	578.5	SqYd
491E0110	Abrasive Blasting of Bridge Deck	578.5	SqYd
491E0120	Bridge Deck Grinding	578.5	SqYd
491E0130	Concrete Removal, Class A	5.0	SqYd
491E0140	Concrete Removal, Class B	5.0	SqYd

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

INDEX OF SHEETS

Sheet A1: Estimate of Quantities
Sheet A2: Environmental Commitment Notes

SECTION E ~ STRUCTURE # 38-290-178

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
460E0070	Class A45 Concrete, Bridge Repair	3.0	CuYd
460E0172	Concrete Patching Material, Bridge Deck	50.2	CuFt
460E0300	Breakout Structural Concrete	3.0	CuYd
460E0380	Install Dowel in Concrete	50	Each
480E0200	Epoxy Coated Reinforcing Steel	264	Lb
491E0005	Two Coat Bridge Deck Polymer Chip Seal	671.4	SqYd
491E0110	Abrasive Blasting of Bridge Deck	671.4	SqYd
491E0120	Bridge Deck Grinding	671.4	SqYd
491E0130	Concrete Removal, Class A	4.0	SqYd
491E0140	Concrete Removal, Class B	4.0	SqYd

SECTION E ~ STRUCTURE # 38-290-179

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
460E0172	Concrete Patching Material, Bridge Deck	134.1	CuFt
491E0005	Two Coat Bridge Deck Polymer Chip Seal	498.2	SqYd
491E0110	Abrasive Blasting of Bridge Deck	498.2	SqYd
491E0120	Bridge Deck Grinding	498.2	SqYd
491E0130	Concrete Removal, Class A	10.7	SqYd
491E0140	Concrete Removal, Class B	10.7	SqYd

SECTION E ~ STRUCTURE # 36-520-068

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
460E0172	Concrete Patching Material, Bridge Deck	72.8	CuFt
491E0005	Two Coat Bridge Deck Polymer Chip Seal	519.5	SqYd
491E0110	Abrasive Blasting of Bridge Deck	519.5	SqYd
491E0120	Bridge Deck Grinding	519.5	SqYd
491E0130	Concrete Removal, Class A	5.4	SqYd
491E0140	Concrete Removal, Class B	5.4	SqYd

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	IM 0903(97)172	A2	A2

ENVIRONMENTAL COMMITMENTS

An Environmental Commitment is a measure that SDDOT commits to implement in order to avoid, minimize, and/or mitigate a real or potential environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency mentioned below with permitting authority can influence a project if perceived environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office. The environmental commitments associated with this project are as follows:

COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pit, or staging site associated with the project, cease construction activities in the affected area until the Whooping Crane departs and contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT B4: BALD EAGLE

Bald eagles are known to occur in this area.

Action Taken/Required:

If a nest is observed within one mile of the project site, notify the Project Engineer immediately so that he/she can consult with the Environmental Office for an appropriate course of action.

COMMITMENT C: WATER SOURCE

The Contractor shall not withdraw water with equipment previously used outside the State of South Dakota without prior approval from the SDDOT Environmental Office. Thoroughly wash all construction equipment before entering South Dakota to reduce the risk of invasive species introduction into the project vicinity.

Action Taken/Required:

The Contractor shall obtain the necessary permits from the regulatory agencies such as the Department of Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (COE) prior to executing water extraction activities.

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor shall furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the State ROW.

The waste disposal site(s) shall be managed and reclaimed in accordance with the following from the General Permit for Highway, Road, and Railway Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) shall not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements shall apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials shall be buried in a trench completely separate from wood debris. The final cover over the construction and/or demolition debris shall consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the State ROW shall be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor shall control the access to waste disposal sites not within the State ROW through the use of fences, gates, and placement of a sign or signs at the entrance to the site stating "No Dumping Allowed".

2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period of time not to exceed the duration of the project. Prior to project completion, the waste shall be removed from view of the ROW or buried and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) shall be incidental to the various contract items.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historical Preservation Office (SHPO or THPO) for all work included within the project limits and all designated option borrow sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require review of cultural resources impacts. This work includes, but is not limited to: staging areas, borrow sites, waste disposal sites, and all material processing sites.

The Contractor shall arrange and pay for a cultural resource survey and/or records search. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor shall provide ARC with the following: a topographical map or aerial view on which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor shall submit the records search or cultural resources survey report and if the location of the site is within the current geographical or historic boundaries of any South Dakota reservation to SDDOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

If evidence for cultural resources is uncovered during project construction activities, then such activities shall cease and the Project Engineer shall be immediately notified. The Project Engineer will contact the SDDOT Environmental Engineer in order to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for staging areas, borrow sites, waste disposal sites, or material processing sites that affect wetlands, threatened and endangered species, or waterways. The Contractor shall provide the required permits and clearances to the Project Engineer at the preconstruction meeting.