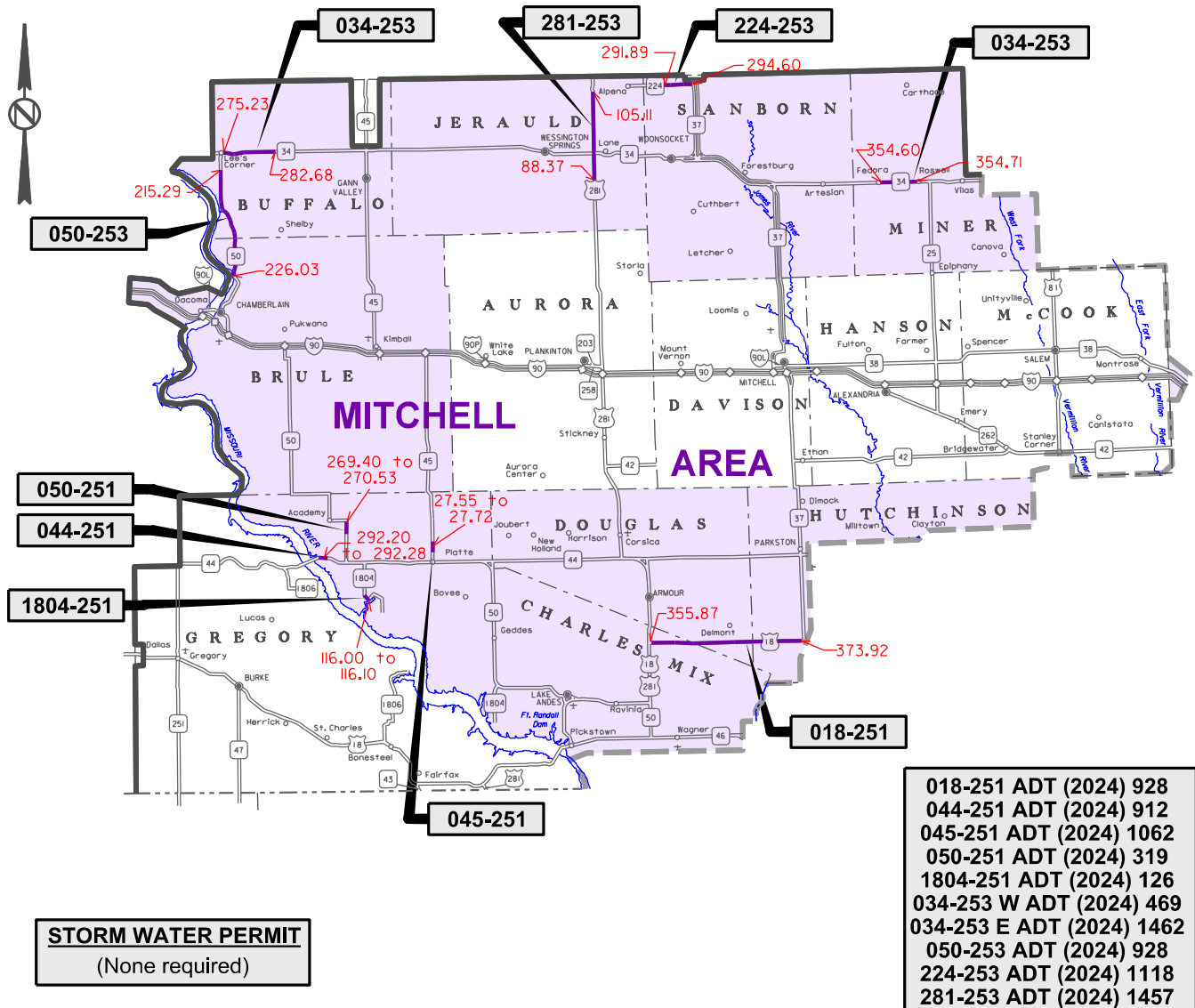


**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED**

**PROJECTS 018-251, 044-251, 045-251, 050-251, 1804-251,
034-253 W & E SEGMENTS, 050-253, 224-253 & 281-253
BRULE, BUFFALO, CHARLES MIX, DOUGLAS,
HUTCHINSON, JERAULD, MINER & SANBORN COUNTIES
SPOT ASPHALT CONCRETE RESURFACING
PCN I7W1, I7W2, I7W3, I7W4, I7W5, I7W6, I7W7, I7W8, I7W9 & I7WA**



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ESTIMATE OF QUANTITIES

018-251 PCN I7W1

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	229.0	Ton

044-251 PCN I7W2

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	215.0	Ton

045-251 PCN I7W3

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	65.0	Ton

050-251 PCN I7W4

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	59.0	Ton

1804-251 PCN I7W5

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	135.0	Ton

034-253 I7W6

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	105.0	Ton

ESTIMATE OF QUANTITIES (CONTINUED)

034-253 PCN I7W7

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	22.0	Ton

050-253 PCN I7W8

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	47.0	Ton

224-253 PCN I7W9

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	184.0	Ton

281-253 PCN I7WA

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	92.0	Ton

SPECIFICATIONS

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

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified 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. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <<https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

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 pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT C: WATER SOURCE

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water ($\geq 140^{\circ}\text{F}$) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

The Contractor will not withdraw water directly from streams of the James, Big Sioux, and Vermillion watersheds without prior approval from the SDDOT Environmental Office.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (DANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at:

< <https://sdleastwanted.sd.gov/maps/default.aspx> >

< [South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species:
https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04](https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04) >

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

The waste disposal site(s) will 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 Environmental Office and the Project Engineer.

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

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with 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 not to exceed the duration of the project. Prior to project completion, the waste will 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.

Cost 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) will be incidental to the various contract items.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

State Historic Preservation Office (SHPO or THPO) concurrence has not been obtained for this project.

Action Taken/Required:

All earth disturbing activities require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. 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 if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in 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 will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. 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.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES (CONTINUED)

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 100 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

The Contractor is responsible for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

GENERAL SCOPE OF WORK

Spot asphalt concrete resurfacing on various routes within the SDDOT Mitchell Area. See Tables in plans.

ASPHALT COMPOSITE

Virgin mineral aggregate for Asphalt Concrete Composite shall conform to the requirements for Class E, Type 1. The asphalt binder used in the mixture shall be PG 58-34, PG 64-22, PG 64-28, PG 64-34, or PG 58-28 Asphalt Binder. All other requirement in the specifications for Asphalt Concrete Composite shall apply.

TRAFFIC CONTROL

Traffic Control and Flagging will be provided by the SDDOT Maintenance Forces. The Engineer must be given a 48 hour notice before work is to begin on an individual route to coordinate the traffic control and flagging with the maintenance forces.

TABLES OF SPOT ASPHALT CONCRETE RESURFACING

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
US18	355.00	0.870	355.00	0.905	Both	40	185	68
US18	356.00	0.958	356.00	0.970	Both	36	63	21
US18	366.00	0.450	366.00	0.470	Both	36	106	35
US18	373.00	0.875	373.00	0.920	Both	48	238	105
018-251 PCN I7W1 Total Tons								229

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD44*	292.00	0.200	292.00	0.275	Both	44	396	215
044-251 PCN I7W2 Total Tons								215

*Based on 2" depth.

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD45	27.00	0.550	27.00	0.569	Both	50	100	46
SD45	27.00	0.701	27.00	0.720	Both	20	100	19
045-251 PCN I7W3 Total Tons								65

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	269.00	0.402	269.00	0.410	Both	24	42	9
SD50	269.00	0.876	269.00	0.897	Both	24	111	25
SD50	270.00	0.500	270.00	0.521	Both	24	111	25
050-251 PCN I7W4 Total Tons								59

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD1804*	116.00	0.000	116.00	0.100	Both	26	422	135
1804-251 PCN I7W5 Total Tons								135

*Based on 2" depth.

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD34	275.00	0.230	275.00	0.256	Both	24	135	30
SD34	276.00	0.180	276.00	0.208	EB	12	150	17
SD34	276.00	0.630	276.00	0.653	EB	12	120	13
SD34	278.00	0.780	278.00	0.799	WB	12	100	11
SD34	281.00	0.250	281.00	0.281	WB	12	165	18
SD34	282.00	0.650	282.00	0.677	WB	12	140	16
034-253 PCN I7W6 Total Tons								105

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD34	354.00	0.690	354.00	0.709	Both	24	100	22
034-253 PCN I7W7 Total Tons								22

TABLES OF SPOT ASPHALT CONCRETE RESURFACING (CONTINUED)

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	215.00	0.290	215.00	0.303	Both	24	70	16
SD50	226.00	0.000	226.00	0.027	Both	24	140	31
050-253 PCN I7W8 Total Tons								47

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD224	291.00	0.890	291.00	0.924	EB	12	180	20
SD224	292.00	0.550	292.00	0.578	Both	24	150	33
SD224	292.00	0.880	292.00	0.923	EB	12	225	25
SD224	293.00	0.190	293.00	0.230	Both	24	210	47
SD224	293.00	0.670	293.00	0.691	WB	12	110	12
SD224	294.00	0.560	294.00	0.600	Both	24	210	47
224-253 PCN I7W9 Total Tons								184

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
US281	88.00	0.370	88.00	0.397	Both	24	175	39
US281	96.00	0.170	96.00	0.189	Both	24	100	22
US281	105.00	0.070	105.00	0.103	Both	24	140	31
281-253 PCN I7WA Total Tons								92

Except where otherwise noted, these quantities and locations are based on 1.5" depth. Final locations and dimensions will be marked by the Engineer and are subject to change.