

STATE OF SOUTH DAKOTA **FOR BIDDING PURPOSES ONLY**
 DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

PROJECT EM 8050(65)
 MINNEHAHA COUNTY

FALLS PARK TO GREAT BEAR BIKE TRAIL PHASE 2
 LEIN PARK TO SIOUX RIVER OVERLOOK
 SIOUX FALLS, SOUTH DAKOTA

PROJECT LOCATION

ASPHALT AND CONCRETE BIKE TRAIL, STORM SEWER, GRADING,
 & TRAIL SIGNAGE

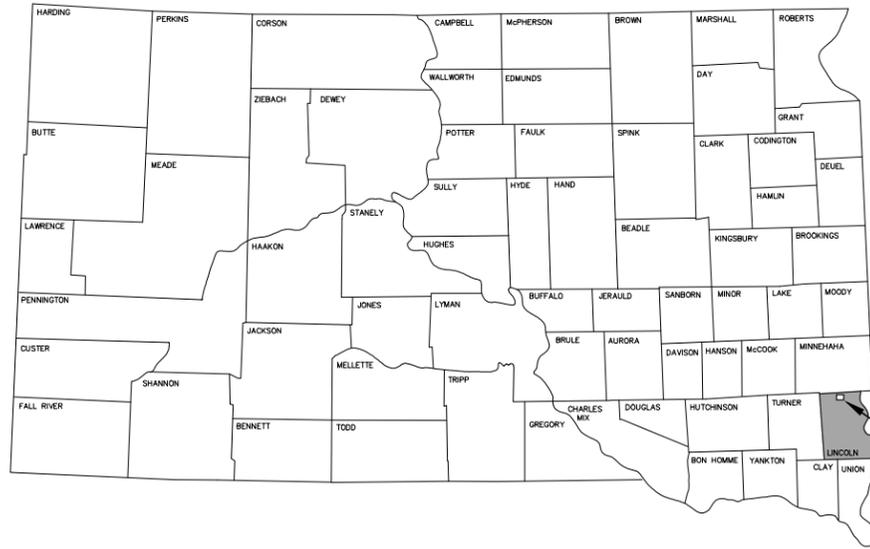
PCN 03QH

STATE OF SOUTH DAKOTA	PROJECT EM 8050(65)	SHEET NO. 1	TOTAL SHEETS 69
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SCALES

PLAN	1" = 40'
PROFILE	HORIZONTAL 1" = 40'
	VERTICAL 1" = 10'
CROSS SECTIONS	HORIZONTAL 1" = 20'
	VERTICAL 1" = 10'

STORM WATER PERMIT DATA

MAJOR STREAM:	BIG SIOUX RIVER	
TOTAL PROJECT AREA:	2.06 ACRES	
ACRES DISTURBED:	2.06 ACRES	
GROSS LENGTH	2942 FEET	0.56 MILES
LENGTH OF EXCEPTIONS	0 FEET	0 MILES
NET LENGTH	2942 FEET	0.56 MILES

APPROXIMATE BEGIN

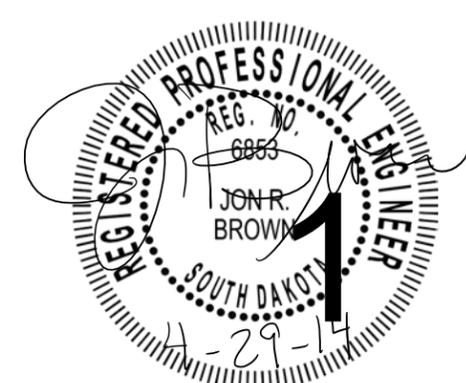
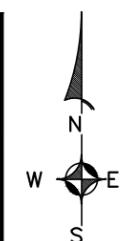
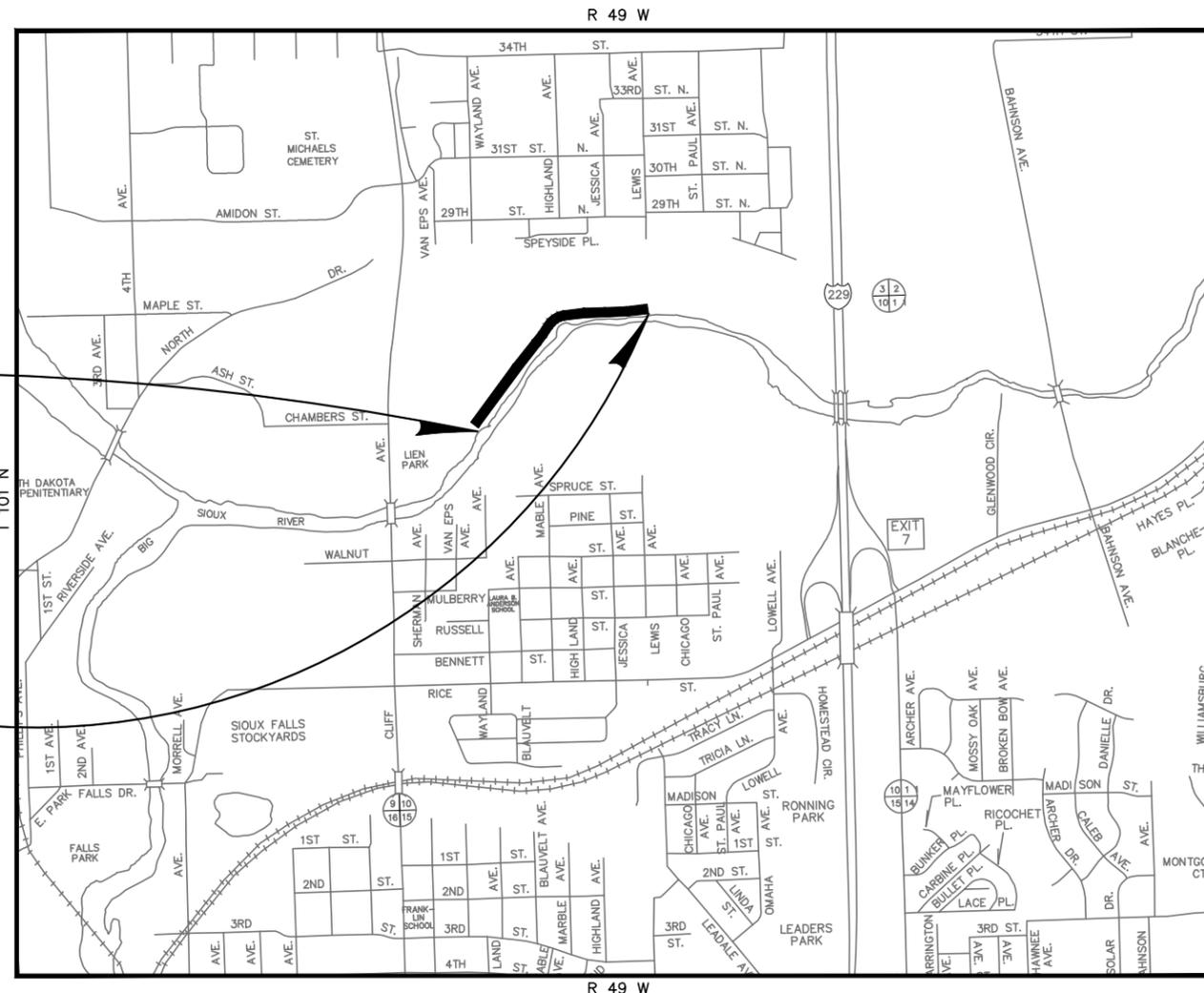
LAT./LONG. 43°34'10.59" N/96°42'28.30" W

APPROXIMATE END

LAT./LONG. 43°34'21.29" N/96°41'56.43" W

BEGIN PROJECT EM 8050(65)
 SIOUX FALLS BIKE TRAIL STA. 0+99
 APPROX. 2000' EAST OF CLIFF AVENUE
 ALONG THE BIG SIOUX RIVER

END PROJECT EM 8050(65)
 SIOUX FALLS BIKE TRAIL STA. 25+75
 APPROX. 4500' EAST CLIFF AVENUE
 ALONG THE BIG SIOUX RIVER



ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT EM 8050(65)	SHEET A2	TOTAL SHEETS A4
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BID ITEM NUMBER	ITEM	QUANTITY	UNIT
Grading – Section B			
009E0010	Mobilization	LS	LS
100E0020	Clear and Grub Tree	41	Each
100E0100	Clearing	LS	LS
120E0010	Unclassified Excavation	5027	CuYd
120E6200	Water For Granular Material	20.0	MGal
250E0020	Incidental Work, Grading	LS	LS
260E1010	Base Course	1837.0	Ton
320E1200	Asphalt Concrete Composite	363.1	Ton
450E0103	12" RCP Class 3, Furnish	128	Ft
450E0110	12" RCP, Install	128	Ft
450E0193	42" RCP Class 3, Furnish	32	Ft
450E0200	42" RCP, Install	32	Ft
450E2000	12" RCP Flared End, Furnish	10	Each
450E2001	12" RCP Flared End, Install	10	Each
462E0100	Class M6 Concrete	11.2	CuYd
480E0100	Reinforcing Steel	2102	LB
510E8005	Sheet Piling, Furnish and Drive	120	SqFt
620E0300	Special Right-Of-Way Fence	120	Ft
621E0240	Special 4' Chain Link Fence	30.8	Ft
651E0150	5" Reinforced Concrete Sidewalk	11725	SqFt
651E0750	5" Reinforced Colored Concrete Sidewalk	1200	SqFt
700E0210	Class B Riprap	20	Ton
735E4000	Tree Trimming	36	Each
831E0110	Type B Drainage Fabric	15	SqYd
900E2030	Miscellaneous Work	1	Site
900E5100	Bench	1	Each
900E8100	Boulder	18	Each
Traffic Control – Section C			
634E0100	Traffic Control	152	Unit
634E0120	Traffic Control, Miscellaneous	LS	LS
Erosion Control – Section D			
110E1700	Remove Silt Fence	650	Ft
230E0010	Placing Topsoil	2370	CuYd
730E0100	Cover Crop Seeding	.5	Bu
730E0251	Special Permanent Seed Mixture 1	272	Lb
730E0252	Special Permanent Seed Mixture 2	22	Lb
731E0100	Fertilizing	3000	Lb
732E0200	Fiber Mulching	2.0	Ton
734E0101	Type 1 Erosion Control Blanket	507	SqYd
734E0602	Low Flow Silt Fence	2557	Ft
734E0610	Mucking Silt Fence	180	CuYd
734E0620	Repair Silt Fence	650	Ft
900E1310	Concrete Washout Facility	1	Each

Signing – Section S			
632E1320	2.0"x2.0" Perforated Tube Post	8.0	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	4.0	SqFt
632E3600	Temporary Signing	32.0	SqFt
900E6000	Kiosk Information Unit	2	Each

SPECIFICATIONS

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and Special Provisions as included in the Proposal.



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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 A: WETLANDS

Approximately 0.04 acres of wetlands will be impacted by the project. Refer to Section B – Grading Plans for location and boundaries of the impacted wetlands. These unavoidable impacts to wetlands are less than 0.1 acres and the "Statewide Wetland Finding for South Dakota Federal-Aid Highway Projects" will apply.

Action Taken/Required:

Replacement of these 0.036 acres of wetland impacts will be completed through another wetland mitigation opportunity in a manner which considers FHWA's program-wide goal of 'net gain' of wetlands through enhancement, creation, and preservation.

COMMITMENT B1: CONSTRUCTION PRACTICES FOR STREAMS INHABITED BY THE TOPEKA SHINER

The US Fish and Wildlife Service (USFWS) have designated the following as Topeka Shiner streams associated with this project.

Table of Topeka Shiner Streams

Station	Stream Name	Ordinary High Water Elevation
13+70	Big Sioux River	1300.00

Action Taken/Required:

The Contractor shall adhere to the "Special Provision for Construction Practices in Streams Inhabited by the Topeka Shiner".

Stream turbidity will be monitored during all stages of the project. Turbidity measurements should be taken in conjunction with normal storm water inspections.

The Contractor shall produce a comprehensive Construction Plan that includes all products, materials, and methods of construction and removal for temporary water barriers, cofferdams, and diversion channels including de-watering, handling, storage, and disposal of excavated material and pumped effluent throughout all phases of construction, including post-construction stabilization.

This plan shall be approved by the SDDOT Environmental office prior to any work occurring in the above streams. Upon plan approval the Construction Plan shall be amended to the SWPPP document located in Section D – Erosion and Sediment Control Plans.

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.

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

COMMITMENT D1: SURFACE WATER QUALITY

The Big Sioux River is classified as a warm water semi-permanent fishery with a total suspended solids standard of 90 milligrams/liter.

Action Taken/Required:

The Contractor is advised the South Dakota Surface Water Quality Standards, administered by the Department of Environment and Natural Resources (DENR), apply to this project. Special construction measures shall be taken to ensure the above standard(s) of the surface waters are maintained and protected.

COMMITMENT D2: SURFACE WATER DISCHARGE

The Big Sioux River is classified as a warm water semi-permanent fishery with a Surface Water Discharge standard of 90 milligrams/liter total suspended solids.

Action Taken/Required:

If construction dewatering is required, the Contractor shall obtain a Temporary Discharge Permit from the DENR and provide a copy to the Project Engineer. Contact the DENR Surface Water Program at 605-773-3351 to apply for a permit.

COMMITMENT E: STORM WATER

Construction activities constitute 1 acre or more of earth disturbance.

Action Taken/Required:

The DENR and the US Environmental Protection Agency (EPA) have issued separate general permits for the discharge of storm water runoff. The DENR permit applies to discharges on state land and the EPA permit applies to discharges on federal or reservation land. The Contractor is advised this project is regulated under the Phase II Storm Water Regulations and must receive coverage under the General Permit for Construction Activities. A Notice of Intent (NOI) will be submitted to DENR a minimum of 15 days prior to project start by the DOT Environmental Office. A letter must be received from DENR that

acknowledges project coverage under this general permit before project start. The Contractor is advised that permit coverage may also be required by off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

The Contractor shall adhere to the "Special Provision Regarding Storm Water Discharges to Waters of the State".

A major component of the storm water construction permits is development and implementation of a Storm Water Pollution Prevention Plan (SWPPP), which is a joint effort and responsibility of the SDDOT and the Contractor. Erosion control measures and best management practices will be implemented in accordance with the SWPPP. The SWPPP is a dynamic document and is to be available on-site at all times.

Information on storm water permits and SWPPPs are available on the following websites:

SDDOT: <http://sddot.com/transportation/highways/environmental/stormwater/Default.aspx>

DENR: <http://www.denr.sd.gov/des/sw/stormwater.aspx>

EPA: http://cfpub.epa.gov/npdes/home.cfm?program_id=6



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Contractor Certification Form:

The "Department of Environmental and Natural Resources – Contractor Certification Form" (SD EForm – 2110LDV1-ContractorCertification.pdf) shall be completed by the Contractor or their certified Erosion Control Supervisor after the award of the contract. Work may not begin on the project until this form is signed.

The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the Surface Water Discharge General Permit for Storm Water Discharges Associated with Construction Activities for the Project.

The online form can be found at:
<http://denr.sd.gov/des/sw/eforms/E2110LDV1-ContractorCertification.pdf>

COMMITMENT F: SEASONAL WORK RESTRICTION

The State of South Dakota has designated a warm water fishery associated with this project.

Action Taken/Required:

Construction or demolition activities should not take place during the Seasonal Work Restriction listed in the below table to avoid conflicts with spawning fish. If flows during this time are nonexistent or extremely low, the seasonal use restriction may not be applicable. The Contractor shall not conduct in-stream work during the Seasonal Work Restriction without prior approval from the SDDOT Environmental Office.

Stream Name	Stream Classification	Seasonal Work Restriction
Big Sioux River	Warm Water	April 1 to June 30

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:

- 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".

- 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.

COMMITMENT N: SECTION 404 PERMIT

The SDDOT has obtained a Section 404 Permit from the US Army Corps of Engineers for the permanent actions associated with this project.

Action Taken/Required:

The Contractor shall comply with all requirements contained in the Section 404 permit.

The Contractor shall also be responsible for obtaining a Section 404 permit for any dredge, excavation, or fill activities associated with staging areas, borrow sites, waste disposal sites, or material processing sites that affect wetlands or waters of the United States.

