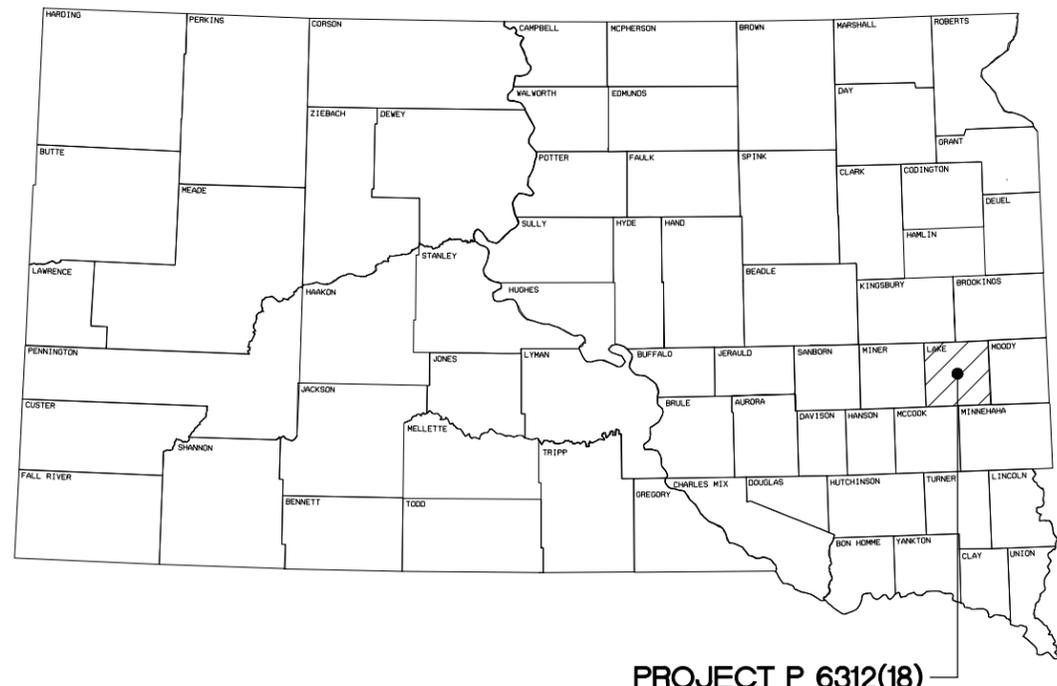


STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 6312(18)	1	114

STATE OF SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED PROJECT P 6312(18) MADISON, SD LAKE COUNTY

4TH STREET SOUTHEAST IMPROVEMENTS
STORM SEWER, CURB AND GUTTER, GRADING,
ASPHALT SURFACING AND SIDEWALK
PCN 03DL



PROJECT P 6312(18)

INDEX OF SECTIONS

SECTION A:	ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS
SECTION B:	GRADING PLANS
SECTION C:	TRAFFIC CONTROL PLANS
SECTION D:	EROSION AND SEDIMENT CONTROL PLANS
SECTION F:	SURFACING PLANS
SECTION S:	PERMANENT SIGNING PLANS
SECTION X:	CROSS SECTIONS

CITY OF MADISON, SOUTH DAKOTA

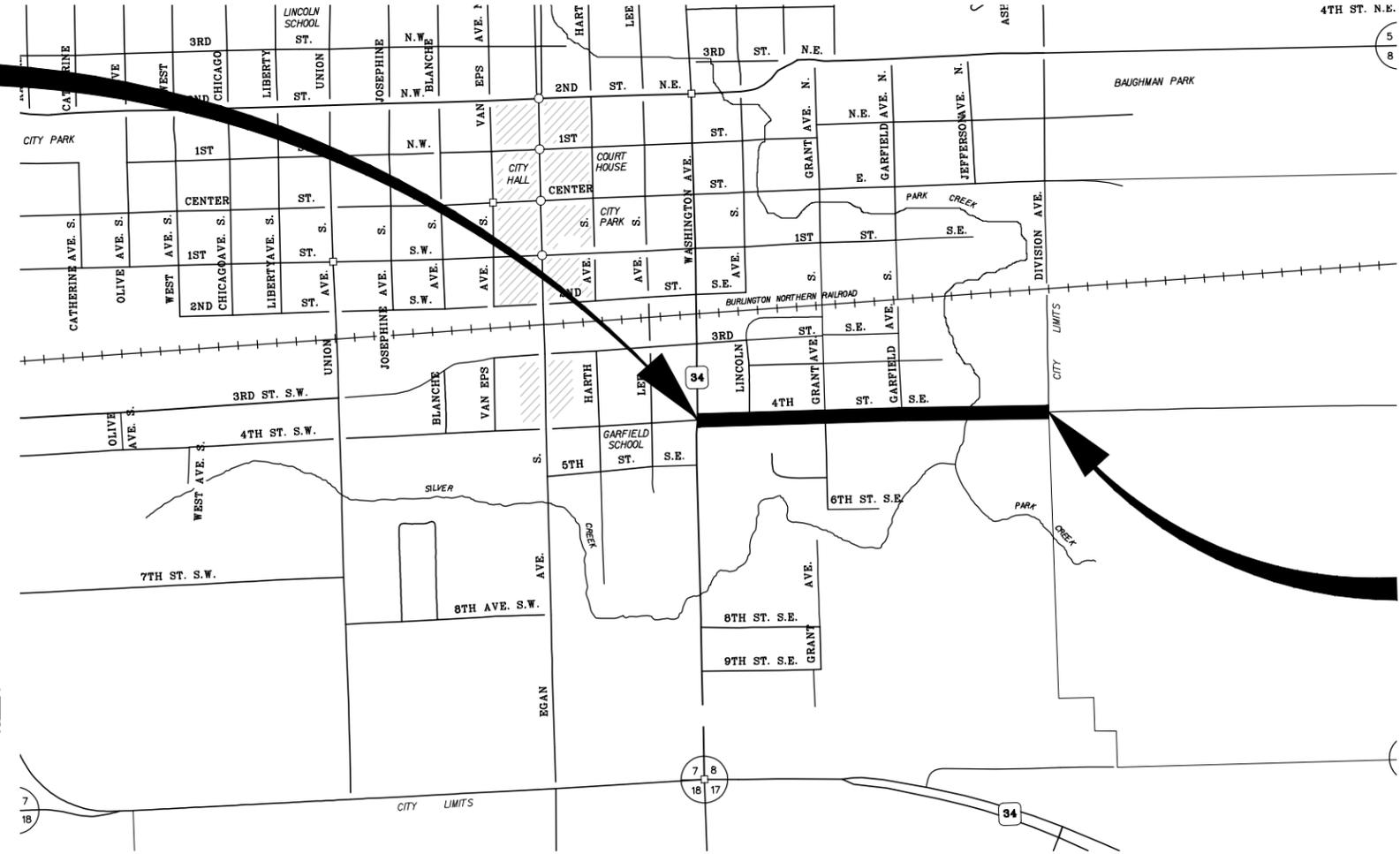
BEGIN P 6312(18)
STATION: 103+00.00
APPROXIMATELY 2664 FEET NORTH AND 57 FEET EAST OF THE SOUTHWEST CORNER OF SECTION 8 - TOWNSHIP 106 NORTH - RANGE 52 WEST

DESIGN DESIGNATION

ADT (2013)	455
ADT (2033)	580
DHV	65
D	50%
T DHV	1.7%
T ADT	3.7%
V	20 MPH

STORM WATER PERMIT:

TOTAL PROJECT AREA:	3.85 ACRES
AREA DISTURBED:	3.85 ACRES
MAJOR BODY OF WATER:	PARK CREEK
LAT:	44.0007718°
LONG:	-097.1005196°



END P 6312(18)

STATION: 128+68.00
APPROXIMATELY 2664 FEET NORTH AND 2609 FEET EAST OF THE SOUTHWEST CORNER OF SECTION 8 - TOWNSHIP 106 NORTH - RANGE 52 WEST

PLANS PREPARED BY:

PHONE: 605.330.7000
401 EAST 8TH STREET
SUITE 309
SIOUX FALLS, SD 57103-7032
www.sehinc.com



GROSS LENGTH:	2,568.00 FEET	0.486 MILES
LENGTH OF EXCEPTIONS:	0.00 FEET	0.000 MILES
NET LENGTH:	2,568.00 FEET	0.486 MILES

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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 6312(18)	A1	A3

Revised 12/3/2014

Grading – Section B

Grading – Section B (Cont.)

Surfacing – Section F

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
009E3200	Construction Staking	Lump Sum	LS
100E0020	Clear and Grub Tree	19	Each
110E0300	Remove Concrete Curb and Gutter	2,240	Ft
110E0320	Remove Concrete Gutter	139	Ft
110E0400	Remove Drop Inlet	2	Each
110E0530	Remove Storm Sewer Pipe	65	Ft
110E1010	Remove Asphalt Concrete Pavement	9,657.6	SqYd
110E1110	Remove Concrete Approach Pavement	325.5	SqYd
110E1140	Remove Concrete Sidewalk	791.9	SqYd
110E7040	Remove Gate for Reset	1	Each
110E7802	Remove Fence for Reset	107	Ft
120E0010	Unclassified Excavation	10,917	CuYd
120E2000	Undercutting	3,466	CuYd
120E6000	Water for Dust Control	25	Mgal
260E0010	Subbase	1,638.0	Ton
380E3520	6" PCC Approach Pavement	336.9	SqYd
380E3540	8" PCC Approach Pavement	24.2	SqYd
380E4010	6" PCC Fillet Section	120.3	SqYd
450E0113	15" RCP Class 3, Furnish	228	Ft
450E0120	15" RCP, Install	228	Ft
450E0133	21" RCP Class 3, Furnish	342	Ft
450E0140	21" RCP, Install	342	Ft
450E0143	24" RCP Class 3, Furnish	194	Ft
450E0150	24" RCP, Install	194	Ft
450E0163	30" RCP Class 3, Furnish	1332	Ft
450E0170	30" RCP, Install	1332	Ft
450E2024	30" RCP Flared End, Furnish	1	Each
450E2025	30" RCP Flared End, Install	1	Each
450E3022	30" RCP Arch Class 2, Furnish	66	Ft
450E3030	30" RCP Arch, Install	66	Ft
450E4508	30" RCP Arch Flared End, Furnish	1	Each
450E4509	30" RCP Arch Flared End, Install	1	Each
451E4400	Pipe Insulation	64	SqFt
462E0100	Class M6 Concrete	72.9	CuYd
480E0100	Reinforcing Steel	12,505	Lb
600E0200	Type II Field Laboratory	1	Each
620E2100	Reset Gate	1	Each
620E4100	Reset Fence	107	Each
650E0059	Modified Type B66 Concrete Curb and Gutter	1,788	Ft
650E4659	Modified Type P6 Concrete Gutter	431	Ft
650E6060	6" Concrete Valley Gutter	128	Ft
651E0040	4" Concrete Sidewalk	17,294	SqFt
651E0060	6" Concrete Sidewalk	5,628	SqFt
651E0160	6" Reinforced Concrete Sidewalk	68	SqFt
651E7000	Type 1 Detectable Warnings	200	SqFt
670E1200	Type B Frame and Gate Assembly	13	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	3	Each
670E5342	4' x 6' Precast Concrete Type S Drop Inlet Lid	2	Each
671E6007	Type A7 Manhole Frame and Lid	22	Each

Bid Item Number	Item	Quantity	Unit
671E7010	Adjust Manhole	14	Each
831E0300	MSE Geotextile Fabric	1,495	SqYd
900E0010	Refurbish Single Mailbox	6	Each
900E0012	Refurbish Double Mailbox	3	Each
900E5147	Articulated Concrete Mattress	232	SqYd

Traffic Control – Section C

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
260E3010	Gravel Surfacing	300.0	Ton
634E0100	Traffic Control	2,221	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E2020	Temporary Curb Ramp	10	Each

Erosion and Sediment Control – Section D

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	0.3	CuYd
110E1693	Remove Erosion Control Wattle	30	Ft
110E1700	Remove Silt Fence	23	Ft
120E6300	Water for Vegetation	410.5	Mgal
230E0010	Placing Topsoil	247	CuYd
230E0020	Placing Contractor Furnished Topsoil	300	CuYd
730E0206	Type D Permanent Seed Mixture	207	Lb
731E0100	Fertilizing	89	Lb
732E0300	Bonded Fiber Matrix	1.4	Ton
734E0042	Soil Stabilizer	3,283.0	SqYd
734E0101	Type 1 Erosion Control Blanket	182.0	SqYd
734E0154	12" Diameter Erosion Control Wattle	119	Ft
734E0510	Shaping for Erosion Control Blanket	100	Ft
734E0604	High Flow Silt Fence	206	Ft
734E0610	Mucking Silt Fence	6	CuYd
734E0620	Repair Silt Fence	10	Ft
734E0630	Floating Silt Curtain	15	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	14	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	28	Ft
734E0855	Interim Sediment Control at Inlet	27	Each
734E5010	Sweeping	10	Hour
735E2220	2" Caliper Deciduous Tree, Furnish and Plant	2	Each
900E1310	Concrete Washout Facility	1	Each
900E1320	Construction Entrance	2	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
120E6200	Water for Granular Material	90.0	Mgal
260E1010	Base Course	7,500.0	Ton
320E1200	Asphalt Concrete Composite	2,231.0	Ton
320E3000	Compaction Sample	3.0	Each

Permanent Signing – Section S

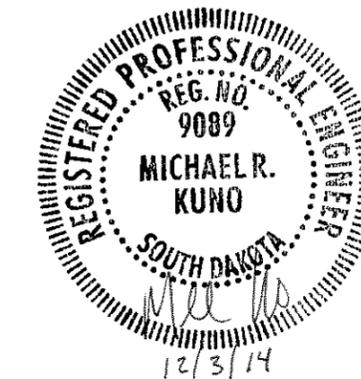
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0130	Remove Traffic Sign	30	Each
110E7150	Remove Sign for Reset	2	Each
632E1320	2.0" x 2.0" Perforated Tube Post	155.3	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	82.8	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	15.0	SqFt
632E3500	Reset Sign	2	Each

INDEX OF SHEETS

A1	Estimate of Quantities for Sections B,C,D,F and S
A2-A3	Environmental Commitments

SPECIFICATIONS

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



ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 6312(18)	SHEET A2	TOTAL SHEETS A3
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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 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.

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 D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

This segment of the Silver Creek is classified by the South Dakota Surface Water Quality Standards and Uses Assigned to Streams for the following beneficial uses:

- (6) Warmwater marginal fish life propagation waters;
- (8) Limited contact recreation waters;
- (9) Fish and wildlife propagation, recreation, and stock watering waters; and
- (10) Irrigation waters.

Because of these beneficial uses, special construction measures may have to be taken to ensure that the total suspended solids standard of 150 mg/L is not violated.

Park Creek is classified by the South Dakota Surface Water Quality Standards and Uses Assigned to Streams for the following beneficial uses:

- (9) Fish and wildlife propagation, recreation, and stock watering waters; and
- (10) Irrigation waters.

Because of these beneficial uses, special construction measures may have to be taken to ensure that this tributary is not impacted.

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

This segment of the Silver Creek is classified by the South Dakota Surface Water Quality Standards and Uses Assigned to Streams for the following beneficial uses:

- (6) Warmwater marginal fish life propagation waters;
- (8) Limited contact recreation waters;
- (9) Fish and wildlife propagation, recreation, and stock watering waters; and
- (10) Irrigation waters.

Because of these beneficial uses, special construction measures may have to be taken to ensure that the total suspended solids standard of 150 mg/L is not violated.

Park Creek is classified by the South Dakota Surface Water Quality Standards and Uses Assigned to Streams for the following beneficial uses:

- (9) Fish and wildlife propagation, recreation, and stock watering waters; and
- (10) Irrigation waters.

Because of these beneficial uses, special construction measures may have to be taken to ensure that this tributary is not impacted.

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/business/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

Contractor Certification Form:

The "Department of Environment 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>



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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 6312(18)	A3	A3

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 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.



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