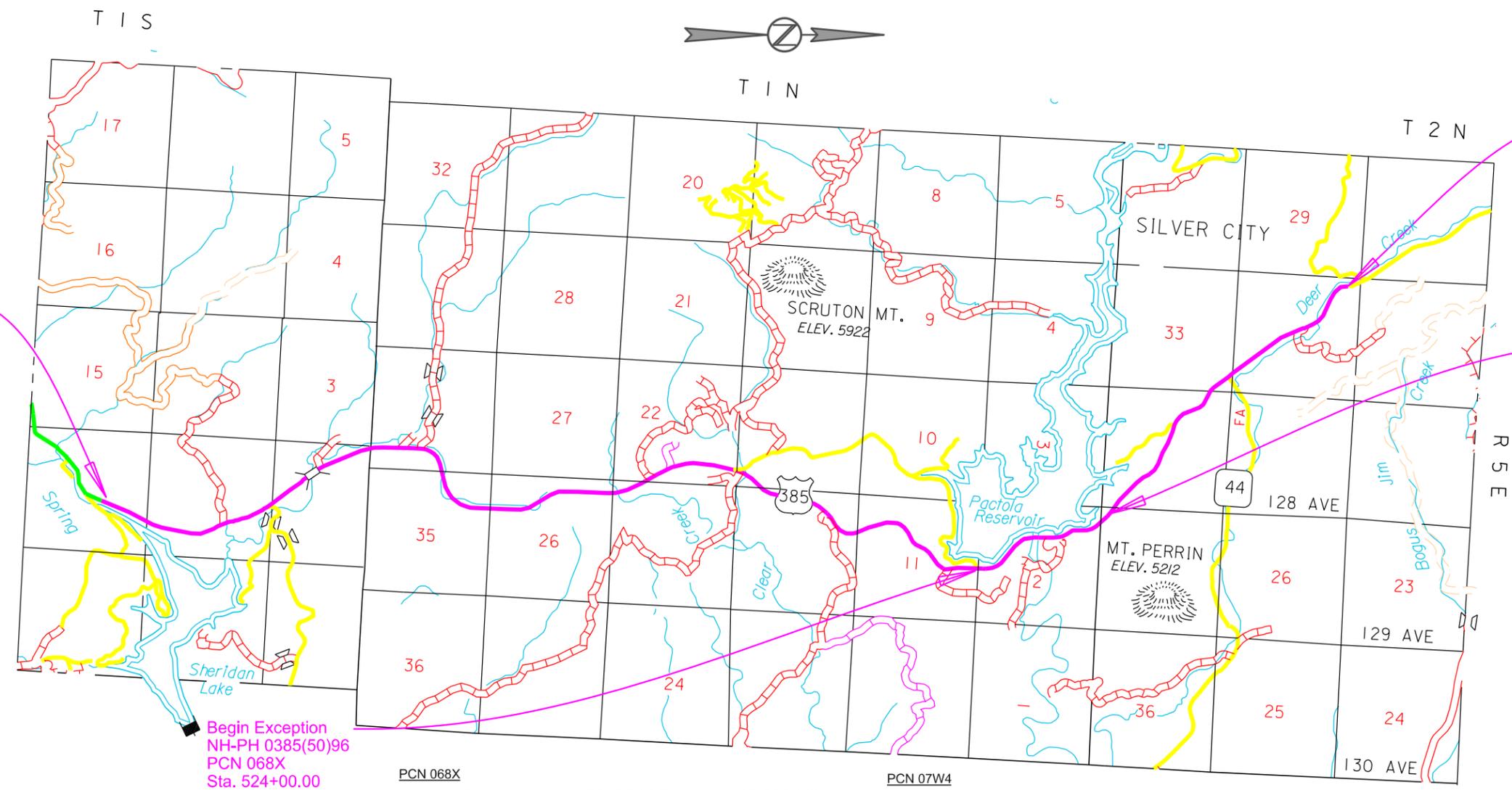
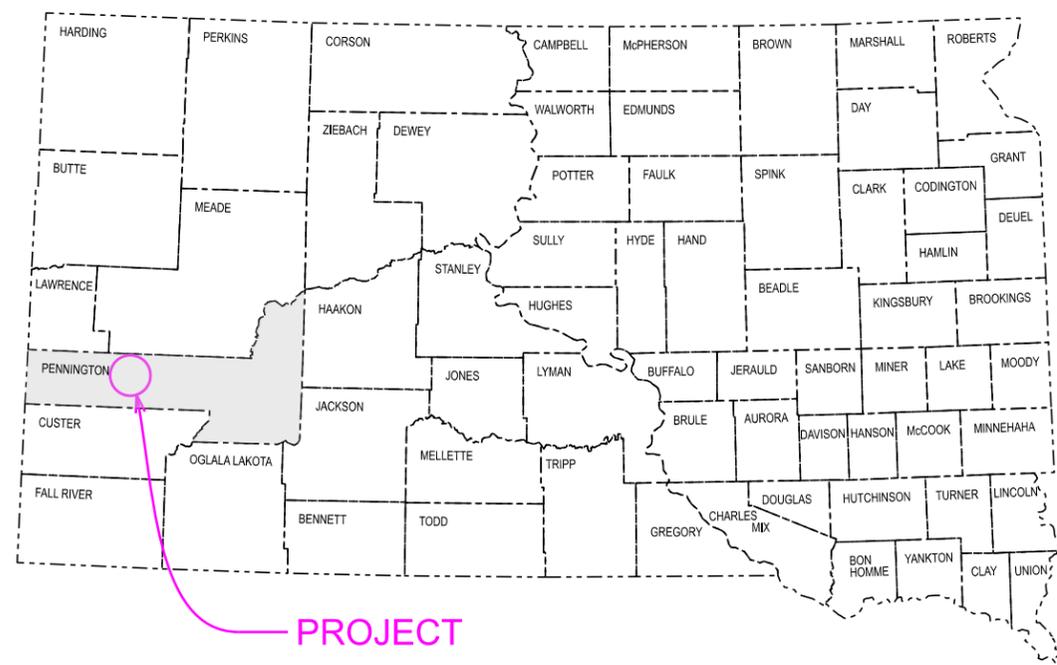


STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR PROPOSED  
**PROJECT NH-PH 0385(50)96  
& NH-PH 0385(50)96**  
**US HIGHWAY 385**  
**PENNINGTON COUNTY**  
AC Surfacing, Crack & Seat, Curb & Gutter, Guardrail  
PCN 068X & 07W4

**INDEX OF SECTIONS**

Section A: Estimate of Quantities and Environmental Commitments  
Section C: Traffic Control Plans  
Section F: Surfacing Plans  
Section M: Pavement Marking Plans



Begin Project  
NH-PH 0385(50)96  
PCN 068X  
Sta. 106+72.48  
MRM 87+0.219

End Project  
NH-PH 0385(50)96  
PCN 068X  
Sta. b312+28.00  
MRM 102.25+0.088

End Project  
NH-PH 0385(50)96  
PCN 07W4  
Sta. 7+00.00  
End Exception  
NH-PH 0385(50)96  
PCN 068X  
Sta. b12+68.00  
MRM 96+0.657

**DESIGN DESIGNATION**

ADT (2024)	2247
ADT (2044)	3544
DHV	580
D	51%
T DHV	1.7%
T ADT	3.8%
V	55 MPH

Begin Exception  
NH-PH 0385(50)96  
PCN 068X  
Sta. 524+00.00  
Begin Project  
NH-PH 0385(50)96  
PCN 07W4  
Sta. 70+00.00  
MRM 95+0.464

	PCN 068X		PCN 07W4	
Gross Length	79195.69 Feet	15.000 Miles	Gross Length	6336.000 Feet 1.200 Miles
Length of Exceptions	6336.00 Feet	1.200 Miles	Length of Exceptions	0.00 Feet 0.000 Miles
Net Length	72859.69 Feet	13.800 Miles	Net Length	6336.00 Feet 1.200 Miles

**Section C - Traffic Control**

**PCN 07W4 - NH-PH 0385(50)96**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	300.0	Hour
634E0020	Pilot Car	150.0	Hour
634E0110	Traffic Control Signs	148.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0630	Temporary Pavement Marking	3.6	Mile

**PCN 068X - NH-PH 0385(50)96**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	2,500.0	Hour
634E0020	Pilot Car	600.0	Hour
634E0110	Traffic Control Signs	945.3	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0630	Temporary Pavement Marking	29.4	Mile

**Section F – Surfacing**

**PCN 07W4 - NH-PH 0385(50)96**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E1350	Restoration of Stockpile Site	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
110E0730	Remove Beam Guardrail	8,000.0	Ft
110E0760	Remove Beam Guardrail Trailing End Terminal	1	Each
110E0800	Remove W Beam Guardrail End Terminal	3	Each
110E1010	Remove Asphalt Concrete Pavement	388.8	SqYd
110E6230	Remove W Beam Guardrail for Reset	50.0	Ft
210E1000	Shoulder Preparation	0.200	Mile
320E1080	Class S Asphalt Concrete	992.1	Ton
320E1200	Asphalt Concrete Composite	74.5	Ton
320E3000	Compaction Sample	3	Each
320E3100	Stabilizing Additive for Asphalt Concrete	3.0	Ton
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	2.4	Mile
320E7030	Grind Sinusoidal Centerline Rumble Stripe in Asphalt Concrete	1.2	Mile
330E0100	SS-1h or CSS-1h Asphalt for Tack	11.4	Ton
380E6450	Saw Joint in PCC Pavement	1,425.0	Ft
380E6500	Planing PCC Pavement	4,897.2	SqYd
393E0100	Cracking and Seating PCC Pavement	23,824.0	SqYd
630E0513	Type 1C MGS	7,937.5	Ft
630E2005	W Beam Guardrail to MGS Transition	4	Each
630E2018	MGS MASH Tangent End Terminal	3	Each
630E2065	MGS Trailing End Terminal	1	Each
630E2110	Beam Guardrail Post and Block	10	Each
630E5160	Reset W Beam Rail	50.0	Ft
632E2220	Guardrail Delineator	170	Each
650E2100	Special Concrete Curb and Gutter	100	Ft

**Alternate A**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0033	PG 58V-34 Asphalt Binder	247.2	Ton
320E1203	CLASS Q3R HOT MIXED ASPHALT CONCRETE	3,896.4	Ton
320E1810	Asphalt Concrete Leveling Lift	301.7	Ton
320E4000	Hydrated Lime	41.9	Ton

**Alternate B**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0033	PG 58V-34 Asphalt Binder	214.5	Ton
320E1203	CLASS Q3R HOT MIXED ASPHALT CONCRETE	4,000.9	Ton
320E1810	Asphalt Concrete Leveling Lift	309.7	Ton
320E4000	Hydrated Lime	43.0	Ton

**INDEX OF SHEETS**

A1 to A2 Estimate of Quantities for Sections C, F, and M  
A3 to A4 Environmental Commitments

**PCN 068X - NH-PH 0385(50)96**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E1350	Restoration of Stockpile Site	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
110E1010	Remove Asphalt Concrete Pavement	992.2	SqYd
120E0100	Unclassified Excavation, Digouts	410	CuYd
210E1005	Surface Preparation	2.000	Mile
260E1010	Base Course	1,023.7	Ton
320E1080	Class S Asphalt Concrete	18,901.1	Ton
320E1200	Asphalt Concrete Composite	204.9	Ton
320E3100	Stabilizing Additive for Asphalt Concrete	57.0	Ton
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	27.6	Mile
320E7030	Grind Sinusoidal Centerline Rumble Stripe in Asphalt Concrete	13.8	Mile
330E0010	MC-70 Asphalt for Prime	289.2	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	185.6	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	1.1	Ton
330E1000	Blotting Sand for Prime	588.9	Ton
330E2000	Sand for Flush Seal	15.5	Ton
332E0010	Cold Milling Asphalt Concrete	804	SqYd
600E0300	Type III Field Laboratory	1	Each
630E0513	Type 1C MGS	2,425.0	Ft
630E1010	Straight Class A W Beam Guardrail with Wood Posts	125.0	Ft
630E1020	Curved Class A W Beam Guardrail with Wood Posts	100.0	Ft
630E2005	W Beam Guardrail to MGS Transition	2	Each
630E2018	MGS MASH Tangent End Terminal	4	Each
632E2220	Guardrail Delineator	60	Each
900E1980	Storage Unit	1	Each

**Alternate A**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0033	PG 58V-34 Asphalt Binder	3,782.6	Ton
320E1203	CLASS Q3R HOT MIXED ASPHALT CONCRETE	45,935.0	Ton
320E4000	Hydrated Lime	461.5	Ton

**Alternate B**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0033	PG 58V-34 Asphalt Binder	3,417.1	Ton
320E1203	CLASS Q3R HOT MIXED ASPHALT CONCRETE	47,184.8	Ton
320E4000	Hydrated Lime	463.9	Ton

## Section M - Pavement Marking

### PCN 07W4 - NH-PH 0385(50)96

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0030	Cold Applied Plastic Pavement Marking, 24"	204	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	10	Each
633E1201	High Build Waterborne Pavement Marking Paint with Reflective Elements, White	56	Gal
633E1206	High Build Waterborne Pavement Marking Paint with Reflective Elements, Yellow	76	Gal
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	204	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	10	Each
633E5100	Grooving for Durable Pavement Marking, 4"	15,336	Ft

### PCN 068X - NH-PH 0385(50)96

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0030	Cold Applied Plastic Pavement Marking, 24"	773	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	18	Each
633E1201	High Build Waterborne Pavement Marking Paint with Reflective Elements, White	379	Gal
633E1206	High Build Waterborne Pavement Marking Paint with Reflective Elements, Yellow	285	Gal
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	773	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	18	Each
633E5100	Grooving for Durable Pavement Marking, 4"	96,781	Ft

## 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/doing-business/environmental/about-environmental/>

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 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 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 B4: BALD AND GOLDEN EAGLE

Bald and/or Golden 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

If a Contractor needs access to state waters for extraction, the Contractor must obtain a water right, through the application of a Temporary Permit to Use Public Waters before work begins.

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 ( $\geq 140$  °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.

#### 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 (SDDANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Temporary permit to use public waters for highway construction purposes application can be found on the SDDANR website: <https://danr.sd.gov/OfficeOfWater/WaterRights/PermitForms/default.aspx>

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>

### 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 will 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 Public ROW.

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.

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) will be incidental to the various contract items.

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0385(50)96	A4	A4

**COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES**

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

**Action Taken/Required:**

All earth disturbing activities not designated within the plans 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.

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.

SHPO/THPO review does not relieve the Contractor of the responsibility 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.

**COMMITMENT S: FIRE PREVENTION IN THE BLACK HILLS AREA**

This project is located within the Black Hills Forest Fire Protection Boundary.

**Action Taken/Required:**

The Contractor will adhere to the "Special Provision for Fire Plan".