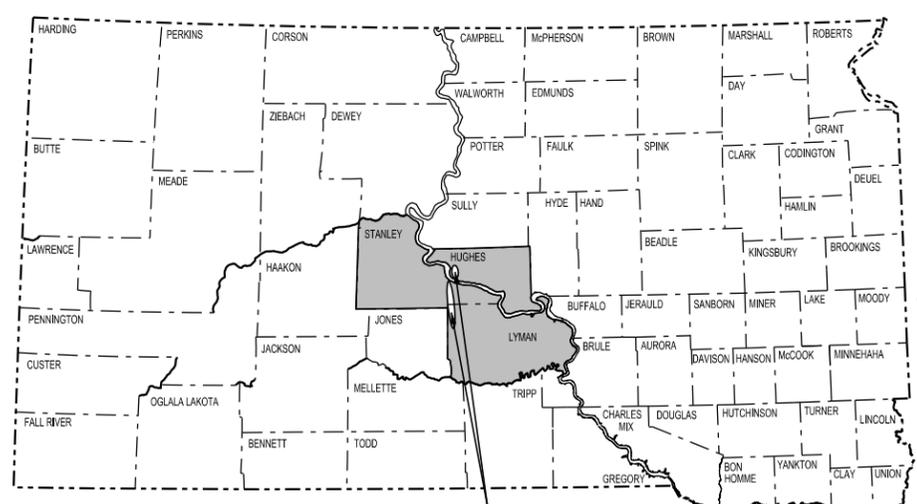
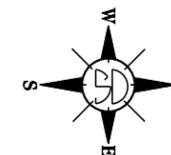


**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED**

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0083(84)96, NH 014B(171)232, & PH 0014(228)233	1	120

Plotting Date: 07/14/2016



**PROJECTS NH 0083(84)96,
NH 014B(171)232 & PH 0014(228)233
US HIGHWAYS 83, 83N, 83S, 014B, & 14
HUGHES, LYMAN, & STANLEY
COUNTIES**

INDEX OF SECTIONS

- Section A: Estimate of Quantities & Environmental Commitment Notes
- Section C: Traffic Control Plans
- Section F: Surfacing Plans

MICRO-MILLING ASPHALT CONCRETE, ASPHALT CONCRETE
RESURFACING, PIPE AND EROSION REPAIR, RUMBLE STRIPS,
PAVEMENT MARKINGS, & SINUSOIDAL CENTERLINE RUMBLE STRIPES

PCN 04WP, 04XR, & 05X4

DESIGN DESIGNATION

US Highway 83N (Divided)
- MRM 96.00 to 116.46 -

ADT(2015)	1179
ADT(2035)	1914
DHV	294.8
D	51%
T DHV	9.2%
T ADT	20.2%
V	70 MPH

DESIGN DESIGNATION

US Highway 83S (Divided)
- MRM 96.00 to 116.46 -

ADT(2015)	782
ADT(2035)	1252
DHV	192.9
D	51%
T DHV	9.2%
T ADT	20.2%
V	70 MPH

DESIGN DESIGNATION

US Highway 83 (Undivided)
- MRM 116.46 to 118.50 -

ADT(2015)	4299
ADT(2035)	6509
DHV	1002.4
D	51%
T DHV	5.9%
T ADT	12.9%
V	65 MPH

BEGIN PROJECT NH 0083(84)96 - SOUTHBOUND LANES
Station 566+18.30 on DF 033-1(1)
MRM 96.00+0.518

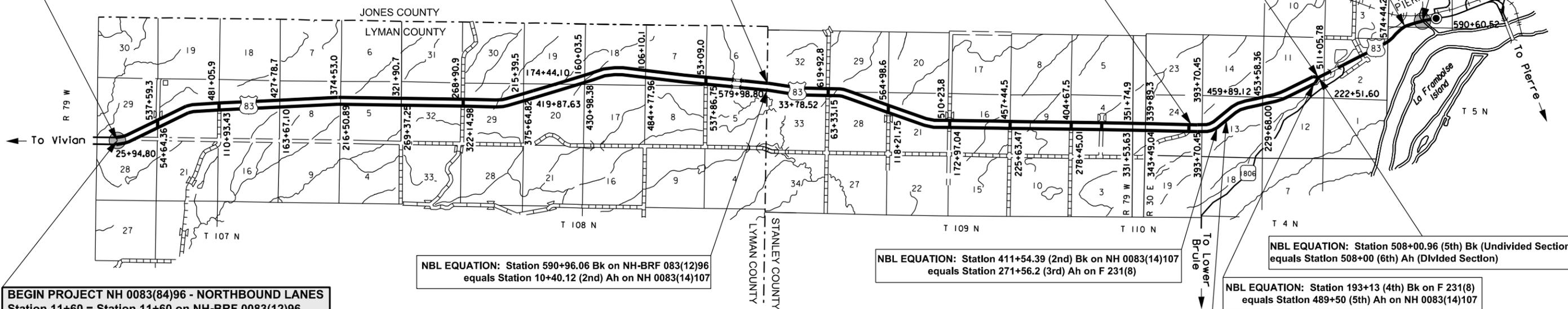
SBL EQUATION: Station 0+00 Bk on DF 033-1(1) equals
Station 672+87.6 (2nd) Ah on DF 033-2(2)

SBL EQUATION: Station 508+00 (3rd) Bk (Undivided Section)
equals Station 508+00 (4th) Ah (Divided Section)

SBL EQUATION: Station 294+27.15 (2nd) Bk on DF 033-2(2) equals
Station 389+09.14 (3rd) Ah on NH 0083(14)107

EQUATION: Station 594+70.09 (6th) Bk on NH 0083(14)107 equals
Station 10+00 (7th) Ah on NH 0083(43)118

END PROJECT NH 0083(84)96
Station 21+53.57 (7th) on NH 0083(43)118
MRM 118.50



NBL EQUATION: Station 590+96.06 Bk on NH-BRF 083(12)96
equals Station 10+40.12 (2nd) Ah on NH 0083(14)107

NBL EQUATION: Station 411+54.39 (2nd) Bk on NH 0083(14)107
equals Station 271+56.2 (3rd) Ah on F 231(8)

NBL EQUATION: Station 508+00.96 (5th) Bk (Undivided Section)
equals Station 508+00 (6th) Ah (Divided Section)

NBL EQUATION: Station 193+13 (4th) Bk on F 231(8)
equals Station 489+50 (5th) Ah on NH 0083(14)107

NBL EQUATION: Station 259+27.74 (3rd) Bk
equals Station 259+35.18 (4th) Ah

BEGIN PROJECT NH 0083(84)96 - NORTHBOUND LANES
Station 11+60 = Station 11+60 on NH-BRF 083(12)96
MRM 96.00+0.248

US HIGHWAY 83S (Southbound Divided)

GROSS LENGTH	106,369.61 FEET	20.146 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	106,369.61 FEET	20.146 MILES

US HIGHWAY 83 (Undivided)

GROSS LENGTH	9,712.09 FEET	1.839 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	9,712.09 FEET	1.839 MILES

US HIGHWAY 83N (Northbound Divided)

GROSS LENGTH	107,751.93. FEET	20.408 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	107,751.93 FEET	20.408 MILES

STORM WATER PERMIT
None Required

Plotting Date: 07/20/2016

Revised by V. Martin on 07/20/16

NH 014B(171)232 US HIGHWAY 014B PCN 04XR HUGHES COUNTY



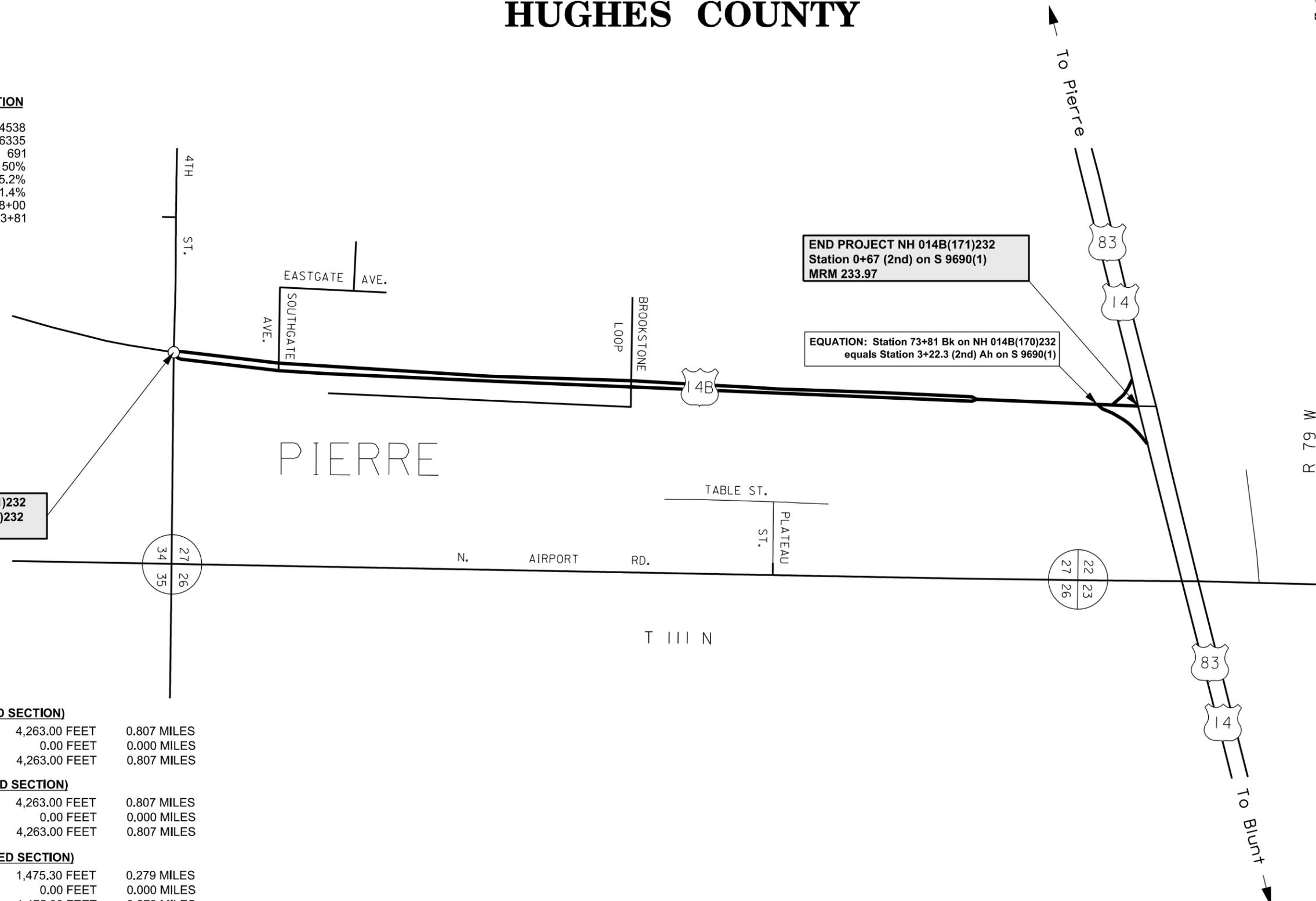
US14B - DESIGN DESIGNATION
(MRM 232.88 to 233.89)

ADT(2015)	4538
ADT(2035)	6335
DHV	691
D	50%
T DHV	5.2%
T ADT	11.4%
V	45 mph fm 20+00 to 48+00
V	55 mph fm 48+00 to 73+81

BEGIN PROJECT NH 014B(171)232
Station 18+73 on NH 014B(170)232
MRM 232.88

END PROJECT NH 014B(171)232
Station 0+67 (2nd) on S 9690(1)
MRM 233.97

EQUATION: Station 73+81 Bk on NH 014B(170)232
equals Station 3+22.3 (2nd) Ah on S 9690(1)



US HIGHWAY 14EB (DIVIDED SECTION)

GROSS LENGTH	4,263.00 FEET	0.807 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	4,263.00 FEET	0.807 MILES

US HIGHWAY 14WB (DIVIDED SECTION)

GROSS LENGTH	4,263.00 FEET	0.807 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	4,263.00 FEET	0.807 MILES

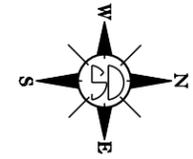
US HIGHWAY 14B (UNDIVIDED SECTION)

GROSS LENGTH	1,475.30 FEET	0.279 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	1,475.30 FEET	0.279 MILES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0083(84)96, NH 014B(171)232, & PH 0014(228)233	3	120

Plotting Date: 07/14/2016

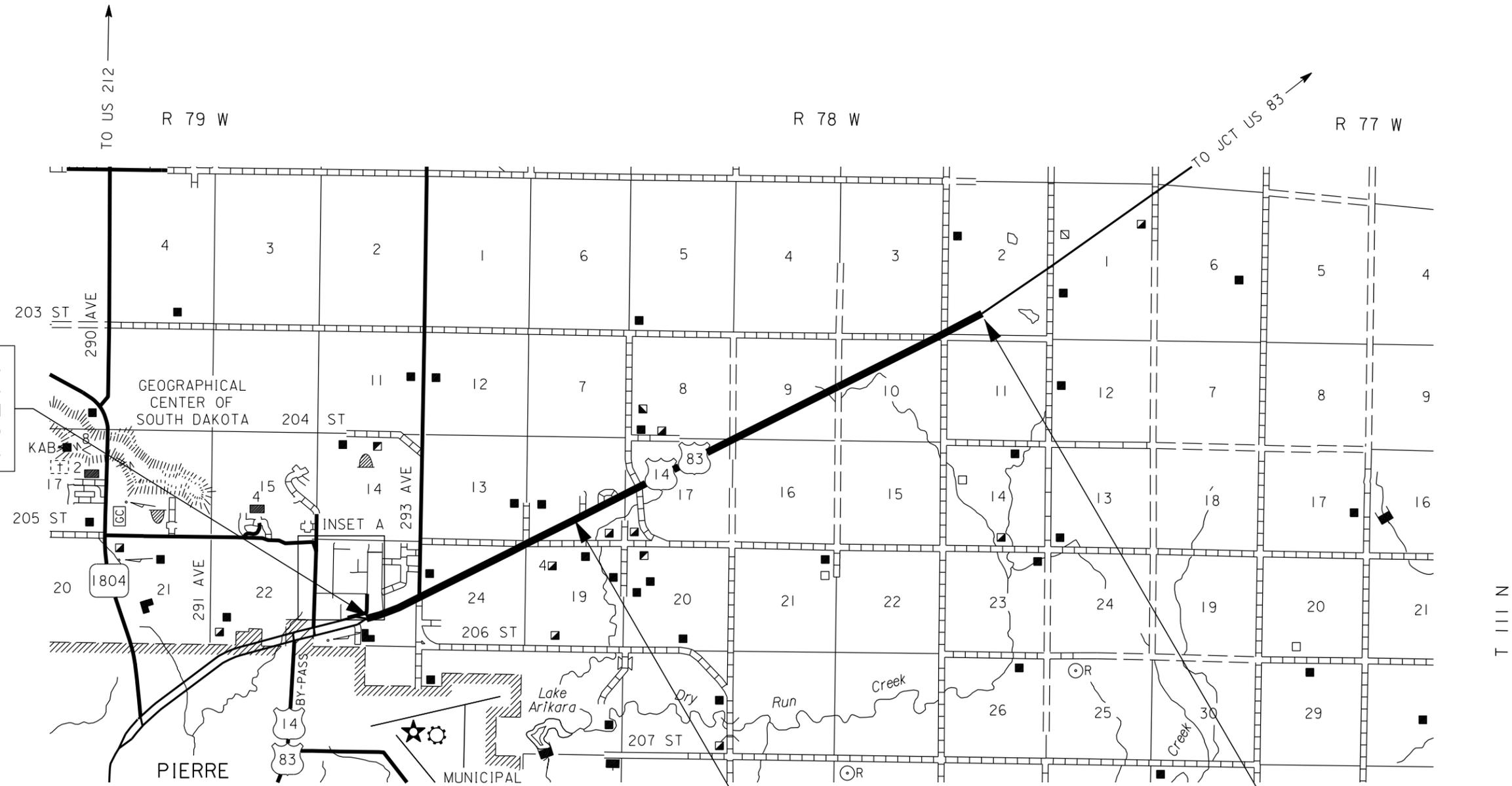
PH 0014(228)233 US HIGHWAY 14 PCN 05X4 HUGHES COUNTY



US14 - DESIGN DESIGNATION
(MRM 233.95 to 239.00)

ADT(2015)	3010
ADT(2035)	3991
DHV	503
D	50%
T DHV	7.2%
T ADT	15.9%
V	65 MPH

BEGIN PROJECT PH 0014(228)233
BEGIN UNDIVIDED LANES
Sta. 58+41
MRM 233.95+ 0.000
MILEAGE 114.748



CENTERLINE RUMBLE EXCEPTION
MRM 235.00 + 0.200 TO MRM 235.00 + 0.700

END PH 0014(228)233
Sta 365+50
MRM 239.00 + 0.725
MILEAGE 120.564

US HIGHWAY 14

GROSS LENGTH	30,708.48 FEET	5.816 MILES
LENGTH OF EXCEPTIONS	2,640.00 FEET	0.500 MILES
NET LENGTH	28,068.48 FEET	5.316 MILES

ESTIMATE OF QUANTITIES

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	NH 0083(84)96, +..	A1	A4

SECTION C – TRAFFIC CONTROL

PCN 04WP – US HWY 83S, 83N, & 83

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4"	50,188	Ft
633E0020	Cold Applied Plastic Pavement Marking, 8"	2,600	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24"	483	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	15	Each
633E1200	Waterborne Pavement Marking Paint with High Grade Polymer, White	1,410	Gal
633E1205	Waterborne Pavement Marking Paint with High Grade Polymer, Yellow	1,128	Gal
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	50,188	Ft
633E5005	Grooving for Cold Applied Plastic Pavement Marking, 8"	2,600	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	483	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	15	Each
633E5100	Grooving for Durable Pavement Marking, 4"	481,782	Ft
634E0010	Flagging	1,332.0	Hour
634E0020	Pilot Car	100.0	Hour
634E0110	Traffic Control Signs	2,129.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0285	Type 3 Barricade, 8' Double Sided	7	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0600	4" Temporary Pavement Marking Tape Type I	26,880	Ft
634E0630	Temporary Pavement Marking	110.2	Mile

PCN 04XR – US HWY 14B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4"	14,145	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24"	2,061	Ft
633E0035	Cold Applied Plastic Pavement Marking, Area	440	SqFt
633E0040	Cold Applied Plastic Pavement Marking, Arrow	32	Each
633E1400	Pavement Marking Paint, 4" White	800	Ft
633E1405	Pavement Marking Paint, 4" Yellow	960	Ft
633E1410	Pavement Marking Paint, 8" White	1,180	Ft
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	14,145	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	2,061	Ft
633E5020	Grooving for Cold Applied Plastic Pavement Marking, Area	440	SqFt
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	32	Each
634E0010	Flagging	40.0	Hour
634E0020	Pilot Car	20.0	Hour
634E0110	Traffic Control Signs	1,031.6	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0285	Type 3 Barricade, 8' Double Sided	11	Each
634E0420	Type C Advance Warning Arrow Board	4	Each
634E0600	4" Temporary Pavement Marking Tape Type I	1,280	Ft
634E0630	Temporary Pavement Marking	2.0	Mile

PCN 05X4 – US HWY 14

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E1200	Waterborne Pavement Marking Paint with High Grade Polymer, White	324	Gal
633E1205	Waterborne Pavement Marking Paint with High Grade Polymer, Yellow	54	Gal
633E5100	Grooving for Durable Pavement Marking, 4"	61,417	Ft
634E0010	Flagging	40.0	Hour
634E0110	Traffic Control Signs	380.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0630	Temporary Pavement Marking	10.6	Mile

ESTIMATE OF QUANTITIES

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	NH 0083(84)96, +..	A2	A4

Revised by V. Martin on 7/21/16

SECTION F - SURFACING

PCN 04WP – US HWY 83S, 83N, & 83

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3210	Construction Staking	42.393	Mile
009E3300	Three Man Survey Crew	20.0	Hour
009E3320	Checker	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
110E0500	Remove Pipe Culvert	32	Ft
110E0510	Remove Pipe End Section	2	Each
110E1700	Remove Silt Fence	175	Ft
110E7500	Remove Pipe for Reset	328	Ft
110E7510	Remove Pipe End Section for Reset	36	Each
120E0100	Unclassified Excavation, Digouts	2,120	CuYd
120E4100	Reprofiling Ditch	8.0	Sta
120E6200	Water for Granular Material	57.6	MGal
260E1010	Base Course	6,011.8	Ton
* 270E0210	Haul and Stockpile Granular Material	46,107.8	Ton
320E0008	PG 64-34 Asphalt Binder	3,109.4	Ton
320E1080	Class S Asphalt Concrete	53,728.9	Ton
320E3100	Stabilizing Additive for Asphalt Concrete	173.6	Ton
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	81.1	Mile
330E0100	SS-1h or CSS-1h Asphalt for Tack	531.5	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	28.7	Ton
332E4000	Micro-Milling Asphalt Concrete	761,480	SqYd
450E0122	18" RCP Class 2, Furnish	8	Ft
450E0130	18" RCP, Install	8	Ft
450E0182	36" RCP Class 2, Furnish	24	Ft
450E0190	36" RCP, Install	24	Ft
450E4699	Tie Bolts for RCP	16	Each
450E8300	Culvert Joint Cleaning	60.0	Ft
450E8305	Repair Culvert Joint	60.0	Ft
450E8310	Chemical Grout Void Fill	30.0	Gal
* 450E8900	Cleanout Pipe Culvert	10	Each
450E9000	Reset Pipe	328	Ft
450E9001	Reset Pipe End Section	36	Each
600E0300	Type III Field Laboratory	1	Each
720E1015	Bank and Channel Protection Gabion	15.0	CuYd
730E0100	Cover Crop Seeding	4.0	Bu
734E0010	Erosion Control	Lump Sum	LS
734E0133	Type 3 Turf Reinforcement Mat	55.6	SqYd
734E0604	High Flow Silt Fence	700	Ft
734E0610	Mucking Silt Fence	49	CuYd
734E0620	Repair Silt Fence	175	Ft
831E0110	Type B Drainage Fabric	123	SqYd
900E0010	Refurbish Single Mailbox	4	Each
900E0012	Refurbish Double Mailbox	1	Each

CONTINUED ---- PCN 04WP – US HWY 83S, 83N, & 83

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
900E1980	Storage Unit	1	Each
900E2030	Miscellaneous Work	6	Site

* - Denotes Non-Participating

ALTERNATE A --- PCN 04WP – US HWY 83S, 83N, & 83

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0007	PG 64-28 Asphalt Binder	3,315.0	Ton
320E1004	Class Q4 Hot Mixed Asphalt Concrete	57,872.6	Ton
320E4000	Hydrated Lime	568.7	Ton

ALTERNATE B ----PCN 04WP – US HWY 83S, 83N, & 83

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0007	PG 64-28 Asphalt Binder	2,941.8	Ton
320E1004	Class Q4 Hot Mixed Asphalt Concrete	59,192.7	Ton
320E4000	Hydrated Lime	587.2	Ton

PCN 04XR – US HWY 14B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E0008	PG 64-34 Asphalt Binder	158.4	Ton
320E1080	Class S Asphalt Concrete	2,736.4	Ton
320E3100	Stabilizing Additive for Asphalt Concrete	8.0	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	15.0	Ton
332E4000	Micro-Milling Asphalt Concrete	1,698	SqYd

PCN 05X4 – US HWY 14

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E7030	Grind Sinusoidal Centerline Rumble Stripe in Asphalt Concrete	5.3	Mile
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	1.1	Ton

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	NH 0083(84)96, +..	A3	A4

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 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 Public ROW.

The waste disposal site(s) shall 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 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 Public 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 Public 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.

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	NH 0083(84)96, +..	A4	A4

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 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 review of cultural resources impacts. 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 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 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 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.