

STATE OF SOUTH DAKOTA
 DEPARTMENT OF TRANSPORTATION

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0050(99)381	1	287

Plotting Date: 7/03/2015

FOR BIDDING PURPOSES ONLY

PLANS FOR PROPOSED PROJECT NH 0050(99)381 SD HIGHWAY 50 YANKTON COUNTY

Grading, PCC Pavement, Curb & Gutter,
 Storm Sewer, Roadway Lighting, Traffic Signals,
 & Permanent Signing
 PCN 6926

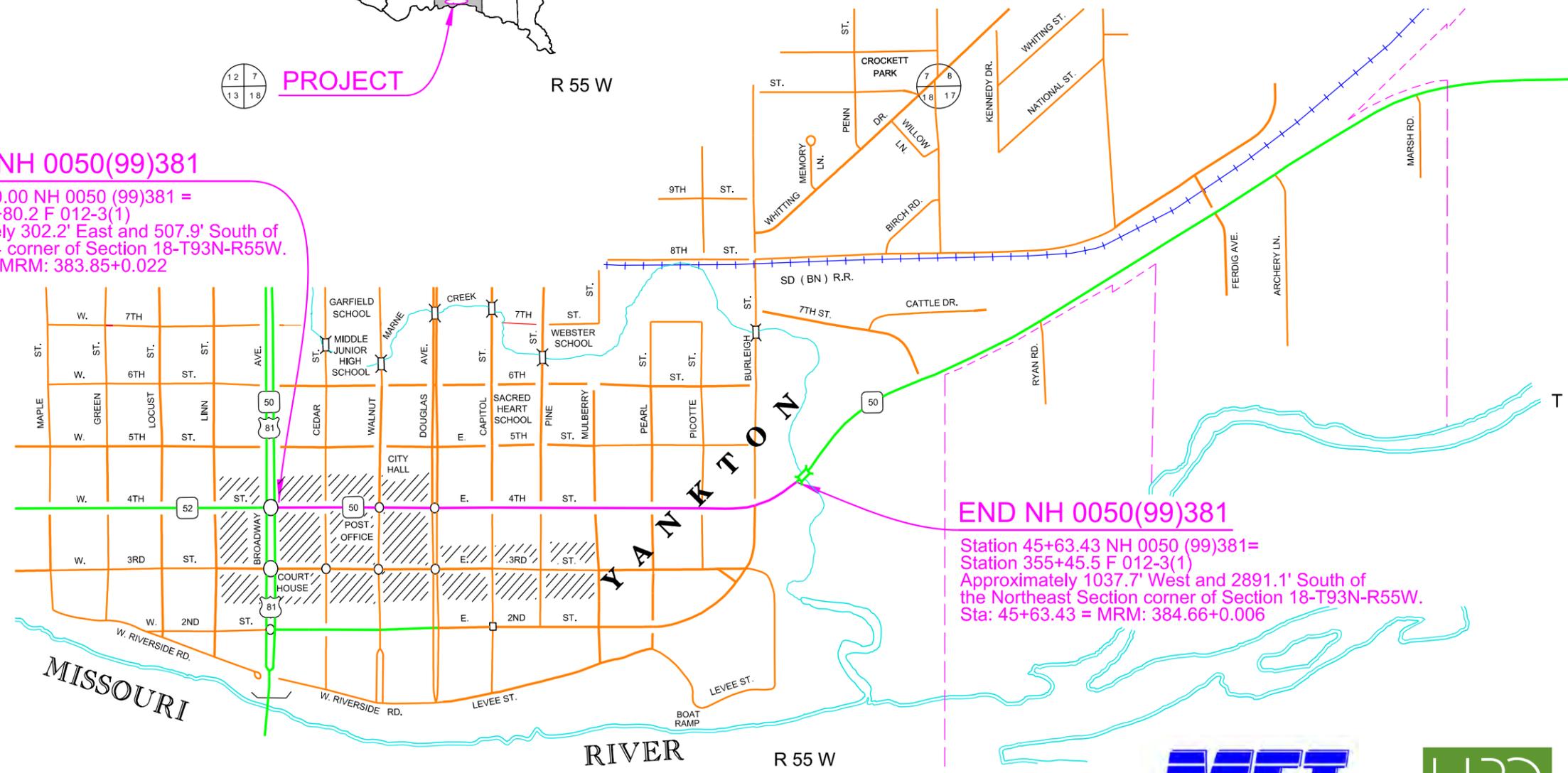
INDEX OF SECTIONS

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- Section S: Permanent Signing
- Section X: Cross Sections

PROJECT R 55 W

BEGIN NH 0050(99)381

Station 4+00.00 NH 0050 (99)381 =
 Station 313+80.2 F 012-3(1)
 Approximately 302.2' East and 507.9' South of
 the West 1/4 corner of Section 18-T93N-R55W.
 Sta: 4+00 = MRM: 383.85+0.022



END NH 0050(99)381

Station 45+63.43 NH 0050 (99)381=
 Station 355+45.5 F 012-3(1)
 Approximately 1037.7' West and 2891.1' South of
 the Northeast Section corner of Section 18-T93N-R55W.
 Sta: 45+63.43 = MRM: 384.66+0.006

T 93 N

T 93 N

RIVER R 55 W



DESIGN DESIGNATION

HWY 50	
ADT (2013)	9321
ADT (2033)	11717
DHV	1523
D	50%
T DHV	2.0%
T ADT	4.3%
V	40 MPH

STORM WATER PERMIT

Major Receiving
 Body of Water: Marne Creek
 Area Disturbed: 9.3 Acres
 Total Project Area: 8.1 Acres
 Approx. Begin Lat/Long: 42.871153, -97.396203

GROSS LENGTH	4163.43 FEET	0.789 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	4163.43 FEET	0.789 MILES



Plans Prepared by:
 McLaury Engineering, Inc.
 Sioux Falls, South Dakota



HR Green, Inc.
 Sioux Falls, South Dakota

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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

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Grading – Section B (Continued)

Rev 07/30/15 JDL

Grading – Section B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Property Corner	10	Each
009E3230	Grade Staking	2.710	Mile
009E3250	Miscellaneous Staking	0.542	Mile
009E3280	Slope Staking	0.542	Mile
009E3290	Structure Staking	13	Each
009E3300	Three Man Survey Crew	20.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
100E0020	Clear and Grub Tree	12	Each
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	218	Ft
110E0320	Remove Concrete Gutter	29	Ft
110E0400	Remove Drop Inlet	27	Each
110E0460	Remove Manhole	10	Each
110E0605	Remove Chain Link Fence	109	Ft
110E1010	Remove Asphalt Concrete Pavement	2,168.9	SqYd
110E1100	Remove Concrete Pavement	24,929.9	SqYd
110E1110	Remove Concrete Approach Pavement	1,494.5	SqYd
110E1130	Remove Concrete Driveway Pavement	1,657.8	SqYd
110E1140	Remove Concrete Sidewalk	4,656.9	SqYd
110E1300	Remove Concrete Retaining Wall	795.1	Ft
120E0010	Unclassified Excavation	16,337	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E2000	Undercutting	9,870	CuYd
120E6100	Water for Embankment	118.4	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
260E2010	Gravel Cushion	2,321.9	Ton
380E3520	6" PCC Approach Pavement	214.1	SqYd
380E3540	8" PCC Approach Pavement	1,230.7	SqYd
380E3545	8" Reinforced PCC Approach Pavement	12.4	SqYd
380E4070	9" PCC Fillet Section	472.7	SqYd
420E0400	Structure Excavation, Miscellaneous	18	CuYd
450E0102	12" RCP Class 2, Furnish	20	Ft
450E0110	12" RCP, Install	20	Ft
450E0122	18" RCP Class 2, Furnish	1,498	Ft
450E0130	18" RCP, Install	1,498	Ft
450E0142	24" RCP Class 2, Furnish	392	Ft
450E0150	24" RCP, Install	392	Ft
450E0162	30" RCP Class 2, Furnish	2,530	Ft
450E0170	30" RCP, Install	2,530	Ft
450E0182	36" RCP Class 2, Furnish	50	Ft
450E0190	36" RCP, Install	50	Ft
450E0192	42" RCP Class 2, Furnish	858	Ft
450E0200	42" RCP, Install	858	Ft
450E0202	48" RCP Class 2, Furnish	266	Ft
450E0210	48" RCP, Install	266	Ft
450E2204	30" RCP Sloped End, Furnish	1	Each
450E2205	30" RCP Sloped End, Install	1	Each
451E6080	Adjust Water Valve Box	2	Each
462E0100	Class M6 Concrete	184.4	CuYd
464E0100	Controlled Density Fill	4.4	CuYd
470E0020	Pipe Handrail	69.2	Ft
480E0100	Reinforcing Steel	32,700	Lb
480E0200	Epoxy Coated Reinforcing Steel	576	Lb

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
530E0300	Type C Concrete Retaining Wall	858	SqFt
530E0410	MSE Segmental Block Wall	1,883	SqFt
530E0820	Reconstruct Stone and Masonry Retaining Wall	858	SqFt
600E0300	Type III Field Laboratory	1	Each
621E0040	4' Chain Link Fence with Top Rail	101	Ft
621E0410	Pedestrian Swing Gate	1	Each
650E0090	Type B69 Concrete Curb and Gutter	5,832	Ft
650E0390	Type BL69 Concrete Curb and Gutter	107	Ft
650E4690	Type P9 Concrete Gutter	936	Ft
651E0040	4" Concrete Sidewalk	21,875	SqFt
651E0060	6" Concrete Sidewalk	17,676	SqFt
651E0140	4" Reinforced Concrete Sidewalk	609	SqFt
651E0160	6" Reinforced Concrete Sidewalk	104	SqFt
651E0540	4" Colored Concrete Sidewalk	14,645	SqFt
651E0560	6" Colored Concrete Sidewalk	1,729	SqFt
651E0740	4" Reinforced Colored Concrete Sidewalk	230	SqFt
651E0760	6" Reinforced Colored Concrete Sidewalk	348	SqFt
651E3000	Grinding Miscellaneous Concrete	57.0	SqFt
651E5000	Sidewalk Drain	18.4	Ft
651E7000	Type 1 Detectable Warnings	780	SqFt
670E1200	Type B Frame and Grate Assembly	38	Each
670E5200	Special Frame and Grate Assembly	6	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	9	Each
670E5400	Precast Drop Inlet Collar	44	Each
671E4548	48" Manhole Cone Section	10.0	Ft
671E5502	2" Adjusting Ring for Manhole	41	Each
671E6009	Type A9 Manhole Frame and Lid	16	Each
720E1015	Bank and Channel Protection Gabion	36.0	CuYd
831E0300	Reinforcement Fabric (MSE)	4,239	SqYd
900E1085	Ornamental Metal Fence	32	Ft

Traffic Control – Section C

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
260E2010	Gravel Cushion	142.0	Ton
320E1200	Asphalt Concrete Composite	13.0	Ton
634E0010	Flagging	200.0	Hour
634E0110	Traffic Control Signs	2,129	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0280	Type 3 Barricade, 8' Single Sided	60	Each
634E0330	Temporary Raised Pavement Markers	16,992	Ft
634E0380	Tubular Marker	140	Each
634E0390	Replace Tubular Marker	70	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	3,770	Ft
634E0600	4" Temporary Pavement Marking Tape Type I	1,152	Ft
634E0640	Temporary Pavement Marking	10,486	Ft
634E0915	Short Term Temporary Traffic Control Signal	1	Site
634E1002	Detour Signing	252.9	SqFt
634E2000	Longitudinal Pedestrian Barricade	400	Ft
634E2010	Temporary Pedestrian Facility(s)	Lump Sum	LS
634E2020	Temporary Curb Ramp	16	Each
634E2025	Longitudinal Pedestrian Channelizer	400	Ft
634E2030	Audible Message Device	10	Each
635E7600	Maintenance of Traffic Signal(s)	64	Hour
900E1080	Orange Plastic Safety Fence	800	Ft

Erosion and Sediment Control – Section D

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	7.0	CuYd
110E1695	Remove Sediment Filter Bag	2,737	Ft
110E1700	Remove Silt Fence	567	Ft
230E0010	Placing Topsoil	517	CuYd
730E0206	Type D Permanent Seed Mixture	294	Lb
731E0200	Fertilizing	0.70	Ton
732E0200	Fiber Mulching	1.0	Ton
734E0042	Soil Stabilizer	1,500.0	SqYd
734E0103	Type 3 Erosion Control Blanket	1,524	SqYd
734E0180	Sediment Filter Bag	2,737	Ft
734E0602	Low Flow Silt Fence	265	Ft
734E0604	High Flow Silt Fence	2,001	Ft
734E0610	Mucking Silt Fence	158	CuYd
734E0620	Repair Silt Fence	567	Ft
734E0680	Flocculent Housing Unit	1	Each
734E0683	500K Gallon Treatment Flocculent Bag	1	Each
734E0845	Sediment Control at Inlet with Frame and Grate	44	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	108	Ft
734E5000	Dewatering	12	Hour
734E5010	Sweeping	12	Hour
900E1310	Concrete Washout Facility	2	Each
900E1320	Construction Entrance	4	Each

INDEX OF SHEETS

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

SPECIFICATIONS

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

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

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Surfacing – Section F

Signal and Lighting – Section L

Pavement Marking – Section M

Permanent Signing – Section S

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
120E6200	Water for Granular Material	101.1	MGal
260E2010	Gravel Cushion	8,419.4	Ton
320E1200	Asphalt Concrete Composite	149.0	Ton
380E0050	8" Nonreinforced PCC Pavement	251.7	SqYd
380E0070	9" Nonreinforced PCC Pavement	23,932.1	SqYd
380E3020	6" PCC Driveway Pavement	189.9	SqYd
380E3040	8" PCC Driveway Pavement	1,122.9	SqYd
380E6000	Dowel Bar	15,204	Each
380E6110	Insert Steel Bar in PCC Pavement	640	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1520	Remove Signal Equipment	Lump Sum	LS
110E1530	Remove Signal Pole Footing	8	Each
110E1540	Remove Luminaire Pole Footing	32	Each
110E5100	Salvage Luminaire Pole	32	Each
420E0400	Structure Excavation, Miscellaneous	22	CuYd
462E0100	Class M6 Concrete	6.3	CuYd
480E0200	Epoxy Coated Reinforcing Steel	651	Lb
635E0040	Breakaway Base Luminaire Pole with Arm, 40' Mounting Height	1	Each
635E0900	Decorative Luminaire Pole	54	Each
635E2130	Signal Pole with 30' Mast Arm and Luminaire Arm	2	Each
635E2140	Signal Pole with 40' Mast Arm and Luminaire Arm	2	Each
635E3410	Decorative Luminaire, 400 Watt	54	Each
635E3800	Roadway Luminaire, LED	5	Each
635E4030	3 Section Vehicle Signal Head	16	Each
635E5020	2' Diameter Footing	196.0	Ft
635E5030	3' Diameter Footing	44.0	Ft
635E5302	Type 2 Electrical Junction Box	70	Each
635E5303	Type 3 Electrical Junction Box	1	Each
635E5304	Type 4 Electrical Junction Box	14	Each
635E5400	Electrical Service Cabinet	2	Each
635E5420	Circuit Control Center	2	Each
635E5515	Signal Head Battery Backup and Flash System	2	Each
635E5530	Preformed Detector Loop	8	Each
635E5550	Detector Unit	4	Each
635E5560	Emergency Vehicle Preemption Unit	1	Each
635E5570	Optical Detector	4	Each
635E5900	Pedestrian Push Button	16	Each
635E5910	Pedestrian Push Button Pole	16	Each
635E5922	Pedestrian Signal Head with Countdown Timer	16	Each
635E5930	Pedestrian Crossing Sign	16	Each
635E7530	Relocate Signal Equipment	Lump Sum	LS
635E8115	1.5" Rigid Conduit, Schedule 40	340	Ft
635E8120	2" Rigid Conduit, Schedule 40	10,070	Ft
635E8125	2.5" Rigid Conduit, Schedule 40	215	Ft
635E8130	3" Rigid Conduit, Schedule 40	50	Ft
635E8150	5" Rigid Conduit, Schedule 40	30	Ft
635E8220	2" Rigid Conduit, Schedule 80	2,800	Ft
635E8225	2.5" Rigid Conduit, Schedule 80	150	Ft
635E8230	3" Rigid Conduit, Schedule 80	505	Ft
635E9001	1/C #000 AWG Copper Wire	745	Ft
635E9013	1/C #3 AWG Copper Wire	250	Ft
635E9014	1/C #4 AWG Copper Wire	1,050	Ft
635E9016	1/C #6 AWG Copper Wire	43,395	Ft
635E9018	1/C #8 AWG Copper Wire	9,195	Ft
635E9020	1/C #10 AWG Copper Wire	1,635	Ft
635E9504	4/C #14 AWG Copper Tray Cable, K2	3,865	Ft
635E9507	7/C #14 AWG Copper Tray Cable, K2	700	Ft
635E9519	19/C #14 AWG Copper Tray Cable, K2	700	Ft
635E9600	#16 AWG Copper Twisted Shielded Pair	750	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	1,625	Ft
635E9800	Preemption Cable	1,730	Ft
635E9948	48 Strand Fiber Optic Cable	4,560	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0030	Cold Applied Plastic Pavement Marking, 24"	1,550	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	38	Each
633E3000	Durable Pavement Marking, 4" White	2,855	Ft
633E3005	Durable Pavement Marking, 4" Yellow	8,465	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	1,550	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	38	Each
633E5100	Grooving for Durable Pavement Marking, 4"	11,320	Ft
634E0560	Remove Pavement Marking, 4" or Equivalent	7,635	Ft
634E0565	Remove Pavement Marking, Arrow	11	Each
634E0640	Temporary Pavement Marking	1,750	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E5020	Salvage Traffic Sign	78	Each
632E0010	1.25' Diameter Breakaway Support Concrete Footing	72.0	Ft
632E1320	2.0"x2.0" Perforated Tube Post	114.0	Ft
632E1340	2.5"x2.5" Perforated Tube Post	212.0	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	414.4	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	109.2	SqFt
632E3520	Remove, Salvage, Relocate, and Reset Traffic Sign	4	Each
900E0030	Remove and Reset Historical Marker	3	Each

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

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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 D2: SURFACE WATER DISCHARGE

Marne Creek is classified as fish and wildlife propagation, recreation, irrigation and stock watering waters. Because of these beneficial uses, special construction measures may have to be taken to ensure that this water body 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://www.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>

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:

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 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".

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.

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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 L: CONTAMINATED MATERIAL

Contaminated soil and/or known gas stations, undergrounds storage tanks, etc. are located within the project limits. Petroleum contaminated soil may be located at the following sites:

Description	Station	L / R
Cotton Oil	7+20	R
Mobil – Stern Oil Co, Inc.	15+75	L
Gramps	40+60	L

Action Taken/Required:

The Contractor shall give notice to the Engineer when contaminated soil is encountered on the project. The Engineer will contact the SDDOT Environmental Engineer, at 605-773-3180, so that contact with the Department of Environment and Natural Resources (DENR) and consultant to inspect and monitor removal of any contaminated soil can be initiated.

The Contractor shall be responsible for having the existing underground utilities located in the construction area. Underground utilities damaged by the Contractor due to negligence shall be repaired at the Contractor's expense.

Petroleum contaminated soil may be disposed of at the City of Vermillion Landfill, phone 605-677-7059 or Virgil Johnson (3 mi east, 1.5 mi north of Irene, SD) phone 605-263-3625 . Measurement of "Contaminated Material Excavation" shall be in accordance with Section 120.4 of the Specifications. All costs for excavating and transporting the contaminated materials to the disposal site and all fees charged per cubic yard by the disposal site shall be incidental to the contract unit price per cubic yard for "Contaminated Material Excavation".

The estimated quantity of "Contaminated Material Excavation" is 100 cubic yards. The quantity of "Contaminated Material Excavation" may vary from the plans. No adjustment will be made to the contract unit price for variations in the quantity of "Contaminated Material Excavation". The estimated quantity of "Contaminated Material Excavation" is provided in Section B – Grading plans.

COMMITMENT M: SECTION 4(f)/6(f) RESOURCES

COMMITMENT M1: SECTION 4(f) PROPERTY

A Section 4(f) De Minimis Impact Finding has determined that no feasible and prudent alternative to the use of Section 4(f) resources occurs with the project.

Station	L / R	Section 4(f) Property
8+50 - 10+00	R	Old Post Office Building
21+25 - 23+00	L	Stone Retaining Wall [212 E. 4 th Street]

Action Taken/Required:

The following measures are required to minimize harm to the Section 4(f) property: **Wall/Curb of the Old Post Office Building**

Contractor will take precautions to remove existing sidewalk without impacting the adjacent low retaining wall/curb located on the south side of the 200 block of SD Hwy 50/W. 4th Street, on the north side of the Old Post Office Building. The new sidewalk is to be installed flush and match the top of the existing wall/curb elevation.

The following measures are required to minimize harm to the Section 4(f) property: **Stone Retaining Wall [212 E. 4th Street]**

Site is a Sioux Quartzite stone and cast-in-place concrete retaining wall located on the north side of SD Hwy 50/E. 4th Street, between the sidewalk and the south property boundary for the house at 212 E. 4th Street. The original Sioux Quartzite stone from this wall will be salvaged in order for the masonry and stone to be reused in rebuilding the wall in its new location.

The Contractor shall submit a plan for reconstructing this wall to the Project Engineer for approval prior to removing the existing wall. If there is not sufficient rock to salvage the Contractor shall submit a new rock sample to the Project Engineer. Project Engineer will submit the Contractor plan and rock sample, if necessary, to the SDDOT Environmental Office before proceeding with construction activities.

Refer to **Section B – Layout, Quantities, & Details for Reconstruct Stone Retaining Wall, 21+36.7 to 22+92.6** for additional details.

The Contractor shall notify the Project Engineer if additional easement is needed to complete the work adjacent to any Section 4(f) property. The Project Engineer shall obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any Section 4(f) property.