

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	1	496

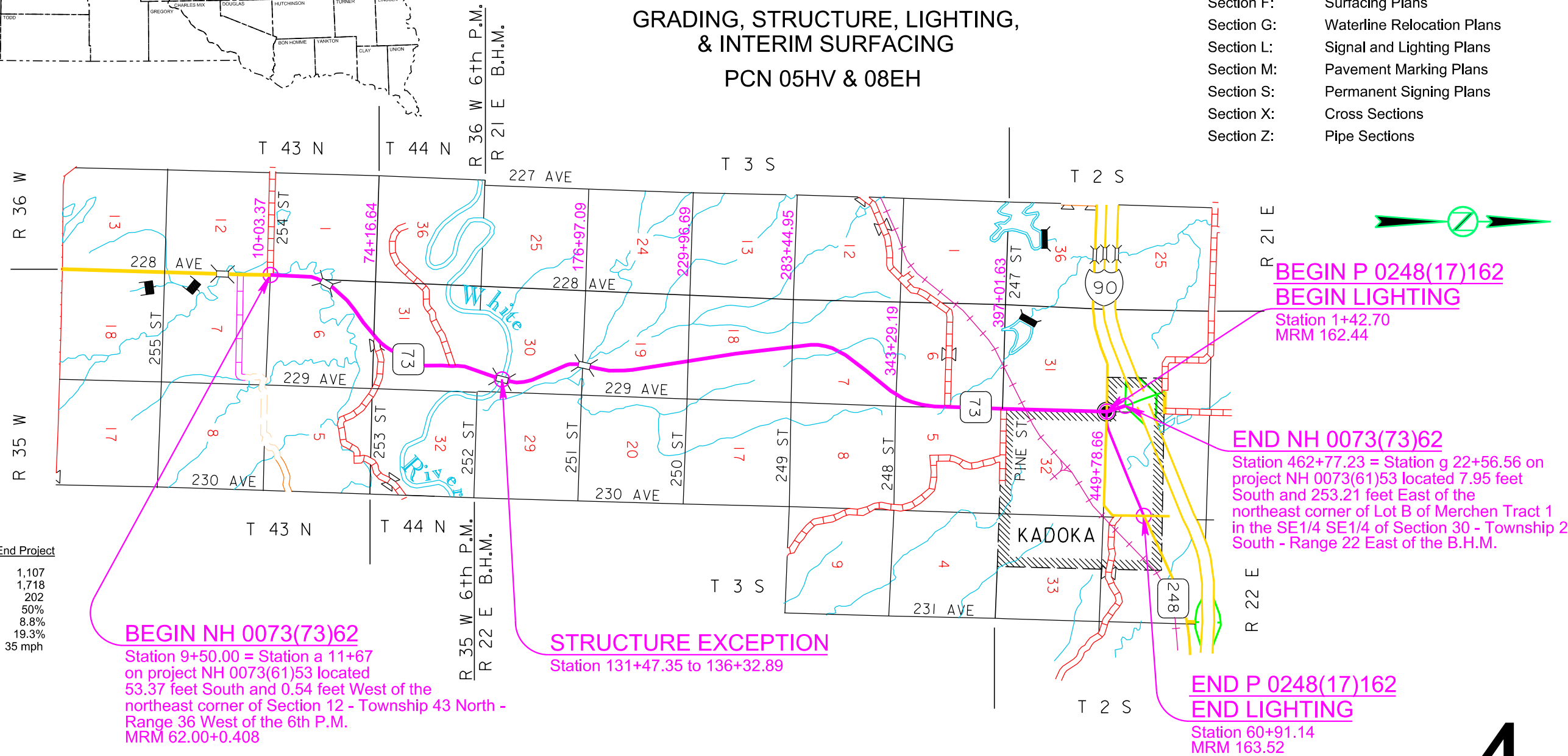
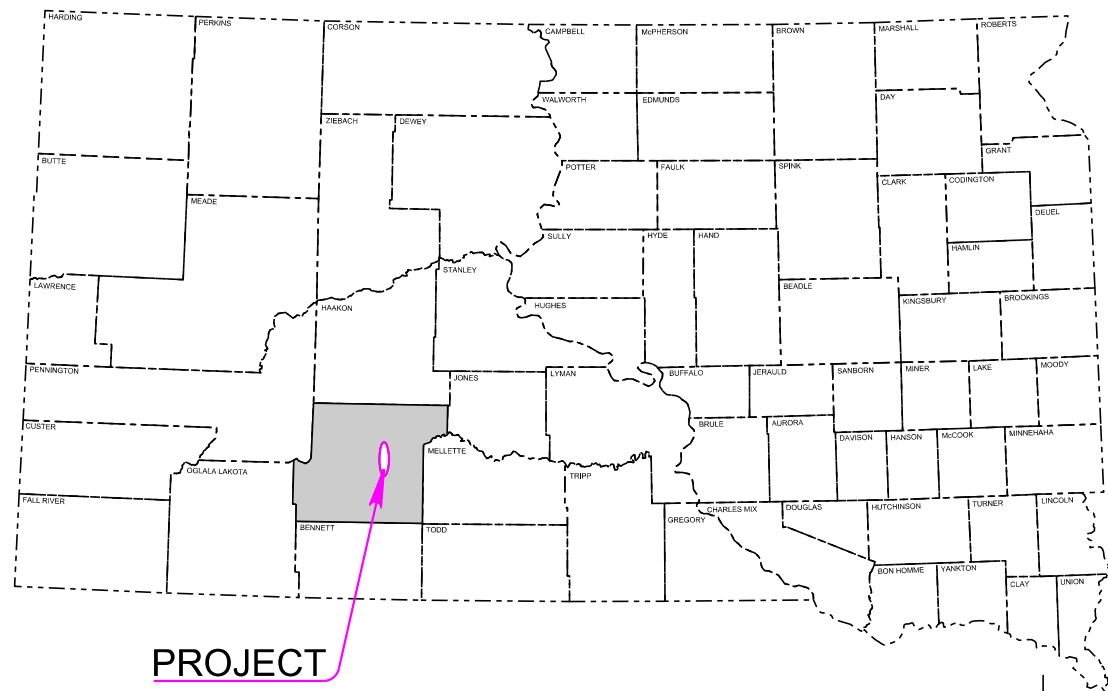
Plotting Date: 11/17/2023 Rev 11/17/2023 RU

PROJECTS NH 0073(73)62 &
P 0248(17)162
S.D. HIGHWAYS 73 & 248
JACKSON COUNTY

GRADING, STRUCTURE, LIGHTING,
& INTERIM SURFACING
PCN 05HV & 08EH

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DESIGN DESIGNATION

Begin Project to Sta 435+00		Sta 435+00 to End Project	
AADT (2021)	1,073	AADT (2021)	1,107
AADT (2046)	1,666	AADT (2046)	1,718
DHV	196	DHV	202
D	50%	D	50%
DHV T%	8.9%	DHV T%	8.8%
AADT T%	19.6%	AADT T%	19.3%
V	70 mph	V	35 mph

STORM WATER PERMIT

Major Receiving
Body of Water: White River
Area Disturbed: 177 Acres
Total Project Area: 302 Acres
Approx. Begin Lat, Long: 43.7226, -101.5417

Gross Length	45327.23 Feet	8.585 Miles
Length of Exceptions	485.54 Feet	0.092 Miles
Net Length	44841.69 Feet	8.493 Miles

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October 16, 2024

Plotted From: TRPR17190

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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	A2	A6

Plotting Date: 06/25/2024 Rev 06/25/2024 RU

Section D - Erosion and Sediment Control (Cont.)

734E0620	Repair Silt Fence	3,525	Ft
831E0110	Type B Drainage Fabric	1,380	SqYd
900E1320	Construction Entrance	2	Each
900E5147	Articulated Concrete Mattress	1,380.0	SqYd

Section E – Structure Structure No. 36-301-184

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
250E0030	Incidental Work, Structure	Lump Sum	LS

Structure No. 36-301-184 Site 1 – Alternate A

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
260E1010	Base Course	5.5	Ton
420E0200	Structure Excavation, Box Culvert	105	CuYd
421E0200	Box Culvert Undercut	311	CuYd
460E0120	Class A45 Concrete, Box Culvert	245.7	CuYd
480E0100	Reinforcing Steel	32,868	Lb
700E0210	Class B Riprap	47.9	Ton
831E0110	Type B Drainage Fabric	67	SqYd

Structure No. 36-301-184 Site 1 – Alternate B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
260E1010	Base Course	6.0	Ton
420E0200	Structure Excavation, Box Culvert	85	CuYd
421E0200	Box Culvert Undercut	286	CuYd
560E2146	2-11'x9' Precast Concrete Box Culvert, Furnish	92.0	Ft
560E2147	2-11'x9' Precast Concrete Box Culvert, Install	92.0	Ft
560E3146	2-11'x9' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E3147	2-11'x9' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	51.4	Ton
831E0110	Type B Drainage Fabric	71	SqYd

Section F - Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
120E6200	Water for Granular Material	1,756.0	MGal
260E1010	Base Course	468.7	Ton
260E1030	Base Course, Salvaged	145,855.2	Ton
320E1200	Asphalt Concrete Composite	1,043.7	Ton
330E0010	MC-70 Asphalt for Prime	250.5	Ton
330E0300	SS-1h or CSS-1h Asphalt for Fog Seal	32.0	Ton
330E1000	Blotting Sand for Prime	621.0	Ton
330E3000	Sand for Fog Seal	10.0	Ton
332E0010	Cold Milling Asphalt Concrete	82,318	SqYd
360E0020	AE150S Asphalt for Surface Treatment	174.9	Ton
360E1020	Type 1B Cover Aggregate	1,624.5	Ton

Section G – Waterline Relocation

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
451E0616	16" PVC Water Main	14,210	Ft
451E0620	20" PVC Water Main	520	Ft
451E3903	3" Air Release Valve Assembly	20	Each
451E3904	4" Air Release Valve Assembly	1	Each
451E4585	Fire Hydrant with Auxiliary Valve & Box	22	Each
451E4918	Imported Trench Backfill	20	CuYd
451E5100	Bore and Jack 1.5" Pipe	550	Ft
451E5116	Bore and Jack 16" Pipe	385	Ft
451E5120	Bore and Jack 20" Pipe	140	Ft
451E6100	Reconnect Water Service	4	Each
451E6105	Connect To Existing Water Main	18	Each

Section L - Signal and Lighting

NH 0073(73)62 – PCN 05HV

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
632E1225	W6x12 Steel Post	34.0	Ft
632E3115	Extruded Aluminum Sign, Nonremovable Copy Super/Very High Intensity	58.8	SqFt
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	11	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	13	Each
635E4010	1 Section Vehicle Signal Head	2	Each
635E5020	2' Diameter Footing	88.0	Ft
635E5301	Type 1 Electrical Junction Box	1	Each
635E5400	Electrical Service Cabinet	1	Each
635E8015	1.5" Rigid Galvanized Steel Conduit	34	Ft
635E8120	2" Rigid Conduit, Schedule 40	1,780	Ft
635E8220	2" Rigid Conduit, Schedule 80	1,125	Ft
635E9018	1/C #8 AWG Copper Wire	9,000	Ft
635E9020	1/C #10 AWG Copper Wire	105	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	845	Ft

Section L - Signal and Lighting (Cont.)

P 0248(17)162 – PCN 08EH

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
250E0010	Incidental Work	Lump Sum	LS
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	30	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	30	Each
635E5020	2' Diameter Footing	240.0	Ft
635E5301	Type 1 Electrical Junction Box	11	Each
635E5400	Electrical Service Cabinet	1	Each
635E8120	2" Rigid Conduit, Schedule 40	6,845	Ft
635E8220	2" Rigid Conduit, Schedule 80	1,725	Ft
635E9010	1/C #0 AWG Copper Wire	580	Ft
635E9013	1/C #3 AWG Copper Wire	13,185	Ft
635E9016	1/C #6 AWG Copper Wire	6,685	Ft
635E9018	1/C #8 AWG Copper Wire	6,700	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	1,950	Ft

Section M - Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E1200	High Build Waterborne Pavement Marking Paint, White	382	Gal
633E1205	High Build Waterborne Pavement Marking Paint, Yellow	186	Gal

Section S - Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0135	Remove Delineator	186	Each
110E5020	Salvage Traffic Sign	87	Each
110E7150	Remove Sign for Reset	17	Each
632E2024	4"x8" White Delineator with 1.12 Lb/Ft Post	176	Each
632E2028	4" Tubular White Delineator with 1.12 Lb/Ft Post	10	Each
632E3500	Reset Sign	17	Each

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

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	A3	A6
Plotting Date: 06/25/2024		Rev 06/25/2024 RU	

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/media/documents/EnvironmentalProceduresManual.pdf>

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 A: AQUATIC RESOURCES

COMMITMENT A1: WETLANDS

All efforts to avoid and minimize wetland impacts from the project have resulted in approximately 1.72 acres of wetlands (includes temporary and permanent) becoming impacted.

Table of Impacted Wetlands

Wetland No.	Station	Perm. Impact Left (Acres)	Perm. Impact Right (Acres)	Temp. Impact Left (Acres)	Temp. Impact Right (Acres)	Total Impact (Acres)
1	39+50	0.003	0.007	0.054	0.024	0.088
2	60+50	0.000	0.000	0.000	0.033	0.033
3	208+00	0.000	0.000	0.013	0.000	0.013
4	211+00	0.000	0.000	0.005	0.000	0.005
5	214+50	0.000	0.006	0.000	0.095	0.101
6	225+50-227+00	0.004	0.004	0.132	0.018	0.158
7	233+00	0.000	0.000	0.050	0.000	0.050
8	237+00	0.000	0.000	0.024	0.000	0.024
9	241+00	0.025	0.000	0.000	0.000	0.025
10	280+00	0.037	0.000	0.000	0.000	0.037

Wetland No.	Station	Perm. Impact Left (Acres)	Perm. Impact Right (Acres)	Temp. Impact Left (Acres)	Temp. Impact Right (Acres)	Total Impact (Acres)
11	295+00-298+00	0.017	0.023	0.179	0.010	0.229
12	305+00	0.005	0.000	0.005	0.000	0.010
13	307+00	0.011	0.082	0.114	0.060	0.267
14	310+00	0.000	0.009	0.000	0.056	0.065
15	316+00	0.000	0.000	0.026	0.000	0.026
16	344+50	0.017	0.000	0.000	0.000	0.017
17	372+00-373+50	0.003	0.000	0.017	0.000	0.020
18	374+50	0.000	0.000	0.010	0.000	0.010
19	394+50-400+50	0.000	0.000	0.000	0.010	0.010
20	406+00-408+00	0.000	0.021	0.000	0.077	0.098
21	412+00	0.000	0.000	0.014	0.060	0.074
22	426+50	0.000	0.014	0.000	0.056	0.070
23	433+50-440+50	0.000	0.218	0.000	0.000	0.218
24	446+00-449+50	0.040	0.001	0.000	0.000	0.041
25	454+00-458+00	0.028	0.003	0.000	0.000	0.031

Action Taken/Required:

Mitigation is required in accordance with the "Statewide Finding Regarding Wetlands for South Dakota Federal-Aid Highway Projects (February 2018)". Replacement of 0.25 acres of permanent 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.

Temporary impacts identified in the Table of Impacted Wetlands will not be mitigated as original contours and elevations will be re-established as designated in Section B – Grading Plans. Prior to initiating temporary work in wetlands, the Contractor will submit a plan to the Project Engineer in accordance with Section 7.21 D of the Specifications.

The Contractor will notify the Project Engineer if additional easement is needed to complete work adjacent to any wetland. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any wetlands beyond the work limits and easements shown in the plans.

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 B5: NORTHERN LONG-EARED BAT

This project is within the range of suitable habitat for the Northern Long-Eared Bat (NLEB) and project work will avoid conflicts with NLEB roosting habitat.

Action Taken/Required:

Project activities that include tree removal, structure work, and/or work within one-quarter mile of a known hibernacula or 150 feet of a known maternity roost tree, or suitable habitat should not occur within the location(s) listed below during the NLEB seasonal work restriction timeframe without approval from the SDDOT Environmental Office.

Station	NLEB Seasonal Work Restriction
25+00R	April 1 to October 31
39+00L&R	April 1 to October 31
83+00L	April 1 to October 31
96+00L	April 1 to October 31
129+00R	April 1 to October 31
130+00L	April 1 to October 31
136+00R	April 1 to October 31

Tree removal will occur between November 1st and March 31st.

The following avoidance, minimization, and mitigation measures are required:

Ensure tree removal is limited to that specified in project plans. Install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits. Ensure that contractors understand clearing limits and how they are marked in the field.

Plot Scale - 1:200

Plotted From - TRPR17190

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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

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	NH 0073(73)62 P 0248(17)162	A4	A6

Plotting Date: 04/03/2024 Rev 04/03/2024 RU

COMMITMENT C: WATER SOURCE

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

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](https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04) >

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

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

The White River is classified as warm water semi-permanent fishery with a total suspended solids standard of less than 90 mg/L 30-day average, less than 158 mg/L daily maximum.

This project may be in the vicinity of multiple streams and wetlands. These waters are considered waters of the state and are protected under Administrative Rules of South Dakota (ARSD) Chapter 74:51. Special construction measures may have to be taken to ensure that this water body is not impacted.

COMMITMENT D2: SURFACE WATER DISCHARGE

The DANR General Permit for Temporary Discharge is required for temporary dewatering and discharges to waters of the state. The effluent limit for total suspended solids will be 90 mg/L 30-day average. The effluent limit applies to discharges to all waters of the state except discharges to waters classified as cold water permanent fish life propagation waters according to the ARSD

74:51:01:45. For discharges to waters of the state classified as cold water permanent fish life propagation waters, the effluent limit for total suspended solids will be 53 mg/L daily maximum.

The permittee has the option of completing effluent testing or implementing a pollution prevention plan for compliance with this permit. If the permittee develops a pollution prevention plan instead of total suspended solids sampling, the plan must be developed and implemented prior to discontinuing total suspended solids sampling. Refer to Section 4.0 of the permit. If any pollutants are suspected of being discharged, a sample must be taken for those parameters listed in Section 3.4 of the permit.

Refer to Commitment D1: Surface Water Quality for stream classification.

Action Taken/Required:

If construction dewatering is required and this project is not required to be covered under a General Permit for Stormwater Discharges Associated with Construction Activities, the Contractor will obtain the General Permit for Temporary Discharge Activities from the DANR Surface Water Program, 605-773-3351.

<
https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_TemporaryDischargeNOI2018Fillable.pdf >

The Contractor will provide a copy of the approved permit or the submitted dewatering information to the Project Engineer prior to proceeding with any dewatering activities. The approved permit or submitted dewatering information must be kept on-site and as part of the project records.

Effluent monitoring, as a result of dewatering activities, will be summarized for each month and recorded on a separate Discharge Monitoring Report (DMR) and submitted to DANR monthly. Additional information can be found at:

<
<https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/swdpermitting/Ereporting.aspx> >

COMMITMENT E: STORM WATER

Construction activities constitute 1 acre or more of earth disturbance and/or work in a waterway.

Action Taken/Required:

The DANR General Permit for Stormwater Discharges Associated with Construction Activities is required for construction activity disturbing one or more acres of earth and work in a waterway. The SDDOT is the owner of this permit and will submit the NOI to DANR 15 days prior to project start in order to obtain coverage under the General Permit. Work can begin once the DANR letter of approval is received.

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

The Contractor will complete the DANR Contractor Certification Form prior to the pre-construction meeting. The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the

permit for this project. Work may not begin on this project until this form is signed and submitted to DANR.

The form can be found at:

<
https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPAappendixCCA2018Fillable.pdf >

The Contractor is advised that permit coverage may also be required for off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

The EPA 2017 Construction General Permit is required for this project. The SDDOT is the owner of this permit and will submit the NOI to EPA 15 days prior to project start in order to obtain coverage. Work can begin after authorization is received from the EPA. This permit provides coverage for construction and dewatering activities for this project.

The Contractor must adhere to the "Special Provision Regarding Storm Water Discharge to Waters of the United States within Indian Reservations".

Storm Water Pollution Prevention Plan

The Storm Water Pollution Prevention Plan (SWPPP) will be developed prior to the submittal of the NOI and will be implemented for all construction activities for compliance with the permit. The SWPPP must be kept on-site and updated as site conditions change. Erosion control measures and best management practices will be implemented in accordance with the SWPPP.

The DOT 298 Form will be used for site inspections and to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents and retained for a minimum of three years.

The inspection will include disturbed areas of the construction site that have not been finally stabilized, areas used for storage materials, structural control measures, and locations where vehicles enter or exit the site. These areas will be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWPPP will be observed to ensure that they are operating correctly, and sediment is not tracked off the site.

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

SDDOT: < <https://dot.sd.gov/doing-business/environmental/stormwater> >

DANR:<
<https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/stormwater/default.aspx> >

EPA: < <https://www.epa.gov/npdes> >

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Plotting Date: 03/06/2023

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.

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 150 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 J: CONSTRUCTION PRACTICES FOR TEMPORARY WORKS IN WATERWAYS OF THE U.S.

The Contractor is advised that special construction measures must be taken to ensure that the waterways of the U.S. are not impacted.

Action Taken/Required:

Excavation will not occur below the ordinary high-water elevation in waterways outside of caissons, cribs, cofferdams, steel piling, or sheeting. The natural streambed will not be disturbed unless specified by the plans and under the observation of the Project Engineer. Refer to the Table of U.S. Waterways to Protect for ordinary high-water elevations. Any structure work over or within

the waterway will be constructed according to Section 7.21 C of the Specifications.

All dredged or excavated materials will be placed at a site above the ordinary high-water elevation in a confined area (not classified as a wetland) that is a minimum of 50 feet away from concentrated flows of storm water, drainage courses, and inlets to prevent return of such material to the waterway.

The construction of temporary work platforms, crossings, or berms below the ordinary high-water elevation will be allowed if all material placed below the ordinary high-water elevation consists of Class B or larger riprap.

All temporary caissons, cribs, cofferdams, steel piling, sheeting, work platforms, crossings, and berms will be removed with minimal disturbance to the streambed. Proper construction practices will be used to minimize increases in suspended solids and turbidity in the waterway.

Bridge berms, wing dams, traffic diversions, channel reconstruction, stream diversions, grading, etc. will be constructed in close conformity with the plans to ensure that the hydraulic capacity of the waterway is not changed.

Temporary waterway crossings required for the Contractor's construction operations will be constructed with an adequate drainage structure size and minimum fill height to reduce the potential for upstream flooding. The Contractor will be responsible for sizing the temporary drainage structure for these crossings.

All temporary works in waterways of the US are required to be covered in the Corp of Engineers 404 Permit. At the time of the preconstruction meeting, the Contractor will submit documentation for all temporary works for the purpose of complying with the 404 Permit requirements in accordance with Section 423.3 A of the Specifications.

Table of U.S. Waterways to Protect

Station	Waterway	Ordinary High-Water Elevation
39+51	Trib. to White River	2267.2'

Stream channel excavation within "Waters of the US" is subject to USACE regulatory jurisdiction. Stream channel excavation cannot exceed the permitted quantities and/or surface area. The 404 Permit is included in the Special Provisions.

The Contractor will take all precautions necessary to prevent any incidental discharges associated with the excavation and hauling of material from the stream channel. This pertains to any excavation operations such as, foundation, pier, or abutment excavation, channel cleanout, excavation for riprap protection, and removal of any temporary fill associated with construction activities.

1:200
Plot Scale -

Plotted From - TRPR17192

File - ...:\proj\ack05\HV\Notes\SectionA.dgn

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	A6	A6

Plotting Date: 03/06/2023

COMMITMENT N: SECTION 404 PERMIT

The SDDOT has obtained a Section 404 Permit from the USACE for the permanent actions associated with this project.

Action Taken/Required:

The Contractor will comply with all requirements contained in the Section 404 Permit.

The Contractor will also be responsible for obtaining a Section 404 Permit for any dredge, excavation, or fill activities associated with material sources, storage areas, waste sites, and Contractor work sites outside the plan work limits that affect wetlands, floodplains, or waters of the United States.

COMMITMENT O: SECTION 401 WATER QUALITY CERTIFICATION

The SDDOT has obtained a Clean Water Act Section 401 Water Quality Certification from the Environmental Protection Agency (EPA) regarding an US Army Corp of Engineers CWA Section 404 Permit for the actions associated with this project.

Action Taken/Required:

The Contractor will comply with all requirements contained in the Section 401 certification. A copy of the EPA CWA 401 Certification must be retained on-site.