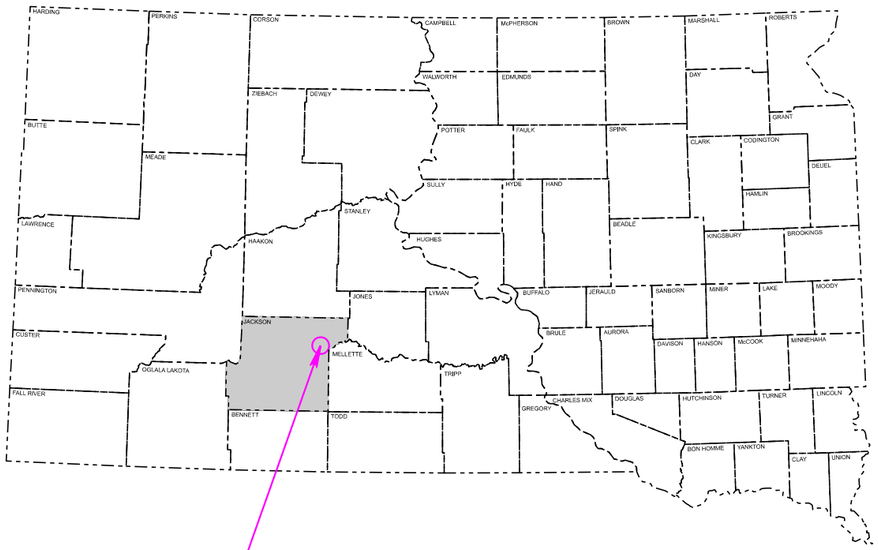


STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

FOR BIDDING PURPOSES ONLY

PLANS FOR PROPOSED

PROJECT P-B 0248(16)173
SD HIGHWAY 248
JACKSON COUNTY

STRUCTURE REPLACEMENT, GRADING,
ASPHALT PAVEMENT, PAVEMENT MARKING,
PERMANENT SIGNING, AND TRAFFIC CONTROL

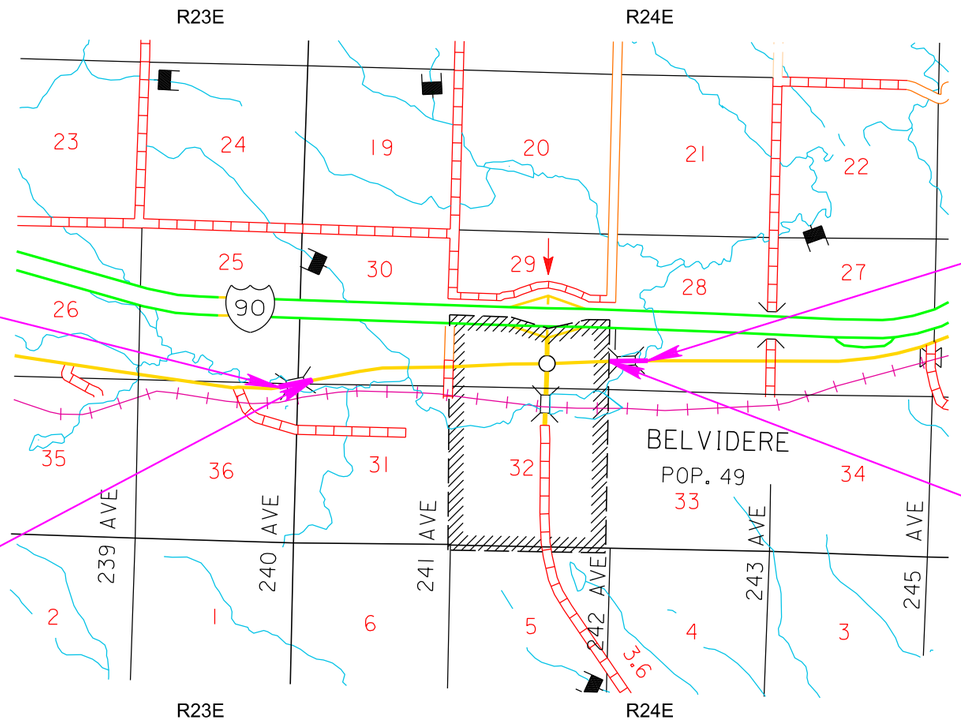
PCN 06NH

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-B 0248(16)173	1	115

Plotting Date: 1/13/2026

INDEX OF SECTIONS

Section A: Estimate of Quantities and Environmental Commitments
Section B: Grading Plans
Section C: Traffic Control
Section D: Erostion and Sediment Control
Section E: Structures
Section F: Surfacing
Section M: Pavement Marking
Section S: Permanent Signing
Section X: Cross Sections



BEGIN PROJECT P-B 0248(16)173

Station 20+20.00
Located 113.64' North and
25.11 feet East of the Southwest Corner
Section 30, Township 2 S, Range 24 E
of the Black Hills Meridian

BEGIN EXCEPTION

Station 26+75.00

END PROJECT P-B 0248(16)173

Station 139+00.00
Located 1119 feet North and
438 feet East of the Southwest Corner of
Section 28, Township 2 S, Range 243 E
of the Black Hills Meridian

END EXCEPTION

Station 130+00.00

DESIGN DESIGNATION

AADT (2019)	176
AADT (2049)	208
DHV	26
D	50%
DHV T%	3.2%
AADT T%	4.5%
V	60mph

STORM WATER PERMIT

Major Receiving
Body of Water: Brave Bull Creek
Area Disturbed: 5.01 acres
Total Project Area: 9.91 acres
Approx. Begin Lat,Long: 43°50'10" N, 101°18'11"W

Gross Length	11,880 Feet	2.25 Miles
Length of Exceptions	10,325 Feet	1.96 Miles
Net Length	1555 Feet	0.29 Miles

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 13932
ZACHARIAH J. KEENEY
SOUTH DAKOTA
01-15-26

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8744
RICHARD A. SCHREIER
SOUTH DAKOTA
01-15-26

December 2, 2025

Plot Scale - 1:2400
Plotted From - jschreier
File - ...\CAD\Design Drawings\title.dgn

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-B 0248(16)173	A1	A5

Section B – Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
004E0030	Maintenance of Traffic Diversion(s)	Lump Sum	LS
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	28	Each
009E3230	Grade Staking	0.797	Mile
009E3250	Miscellaneous Staking	0.502	Mile
009E3280	Slope Staking	0.502	Mile
009E3290	Structure Staking	2	Each
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0600	Remove Fence	3,637	Ft
110E0730	Remove Beam Guardrail	1,083.0	Ft
110E1010	Remove Asphalt Concrete Pavement	4,184.5	SqYd
120E0010	Unclassified Excavation	17,468	CuYd
120E0600	Contractor Furnished Borrow Excavation	11,903	CuYd
120E2000	Undercutting	7,624	CuYd
120E6100	Water for Embankment	371.0	MGal
270E0110	Salvage and Stockpile Granular Material	1,847.0	Ton
430E0700	Precast Concrete Headwall for Drain	4	Each
600E0200	Type II Field Laboratory	1	Each
620E0020	Type 2 Right-of-Way Fence	3,936	Ft
620E0510	Type 1 Temporary Fence	3,344	Ft
620E0515	Type 1A Temporary Fence	1,173	Ft
620E1020	2 Post Panel	35	Each
620E1030	3 Post Panel	6	Each
680E0304	4" Perforated Dual Wall HDPE Pipe	90	Ft
680E0324	4" Dual Wall HDPE Pipe	32	Ft
680E2500	Porous Backfill	26.0	Ton
831E0110	Type B Drainage Fabric	116	SqYd
831E0400	Impermeable Plastic Membrane	50	SqYd

Section C – Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	100.0	Hour
634E0110	Traffic Control Signs	287.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	10	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	1,000	Ft
634E0640	Temporary Pavement Marking	4,665	Ft
634E1002	Detour and Restriction Signing	1,197.0	SqFt

Section D – Erosion and Sediment Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	2.3	CuYd
110E1693	Remove Erosion Control Wattle	250	Ft
110E1700	Remove Silt Fence	1,188	Ft
205E0010	Dust Control Chloride	6,000	Lb
230E0010	Placing Topsoil	1,956	CuYd
730E0100	Cover Crop Seeding	3.0	Bu
730E0212	Type G Permanent Seed Mixture	95	Lb
731E0200	Fertilizing	1.80	Ton
732E0100	Mulching	2.1	Ton
732E0300	Bonded Fiber Matrix	5.1	Ton
734E0103	Type 3 Erosion Control Blanket	1,002	SqYd
734E0154	12" Diameter Erosion Control Wattle	1,000	Ft
734E0165	Remove and Reset Erosion Control Wattle	250	Ft
734E0325	Surface Roughening	3.4	Acre
734E0510	Shaping for Erosion Control Blanket	367	Ft
734E0602	Low Flow Silt Fence	4,750	Ft
734E0610	Mucking Silt Fence	330	CuYd
734E0620	Repair Silt Fence	1,188	Ft
900E1320	Construction Entrance	2	Each

Section E – Structure

Structure No. 36-421-109

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

Structure No. 36-421-109 Alternate A

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	141	CuYd
421E0200	Box Culvert Undercut	429	CuYd
460E0120	Class A45 Concrete, Box Culvert	323.4	CuYd
480E0100	Reinforcing Steel	54,860	Lb
700E0210	Class B Riprap	74.4	Ton
831E0110	Type B Drainage Fabric	92	SqYd

INDEX OF SHEETS

A1 to A2	Estimate of Quantities for Sections B, C, D, E, F, M, and S
A3 to A5	Environmental Commitments

Structure No. 36-421-109 Alternate B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	136	CuYd
421E0200	Box Culvert Undercut	406	CuYd
464E0100	Controlled Density Fill	36.4	CuYd
560E0190	12'x9' Precast Concrete Box Culvert, Furnish	80.0	Ft
560E0191	12'x9' Precast Concrete Box Culvert, Install	80.0	Ft
560E1190	12'x9' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E1191	12'x9' Precast Concrete Box Culvert End Section, Install	2	Each
560E2172	2-12'x9' Precast Concrete Box Culvert, Furnish	80.0	Ft
560E2173	2-12'x9' Precast Concrete Box Culvert, Install	80.0	Ft
560E3172	2-12'x9' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E3173	2-12'x9' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	76.6	Ton
831E0110	Type B Drainage Fabric	94	SqYd

Structure No. 36-441-108

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

Structure No. 36-441-108 Alternate A

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
260E1010	Base Course	5.5	Ton
420E0200	Structure Excavation, Box Culvert	189	CuYd
421E0200	Box Culvert Undercut	572	CuYd
460E0120	Class A45 Concrete, Box Culvert	411.9	CuYd
480E0100	Reinforcing Steel	70,243	Lb
700E0210	Class B Riprap	131.3	Ton
831E0110	Type B Drainage Fabric	147	SqYd

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8744
RICHARD A. SUDMEIER
SOUTH DAKOTA
01-15-26

Structure No. 36-441-108 Alternate B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
260E1010	Base Course	4.9	Ton
420E0200	Structure Excavation, Box Culvert	280	CuYd
421E0200	Box Culvert Undercut	637	CuYd
464E0100	Controlled Density Fill	33.3	CuYd
560E2228	2-14'x8' Precast Concrete Box Culvert, Furnish	176.0	Ft
560E2229	2-14'x8' Precast Concrete Box Culvert, Install	176.0	Ft
560E3228	2-14'x8' Precast Concrete Box Culvert End Section, Furnish	4	Each
560E3229	2-14'x8' Precast Concrete Box Culvert End Section, Install	4	Each
700E0210	Class B Riprap	134.4	Ton
831E0110	Type B Drainage Fabric	158	SqYd

Section F – Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
120E6200	Water for Granular Material	65.1	MGal
260E1010	Base Course	3,570.6	Ton
260E1030	Base Course, Salvaged	1,847.0	Ton
320E1200	Asphalt Concrete Composite	1,748.2	Ton
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	0.6	Mile

Section M – Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E1200	High Build Waterborne Pavement Marking Paint, White	18	Gal
633E1205	High Build Waterborne Pavement Marking Paint, Yellow	4	Gal

Section S – Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E5020	Salvage Traffic Sign	2	Each
110E7150	Remove Sign for Reset	3	Each
632E3500	Reset Sign	3	Each





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 A: AQUATIC RESOURCES

COMMITMENT A1: WETLANDS

All efforts to avoid and minimize wetland impacts from the project have resulted in approximately 0.23 acres of wetlands (includes temporary and permanent) becoming impacted. Refer to Section B – Grading Plans for location and boundaries of the impacted wetlands.

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	24+27.71 (L/R)	0.00	0.009	0.075	0.00	0.084
2	21+00 to 23+00 (L)	0.00	0.00	0.00	0;00	0.00
3	130+00 to 139+00 (L/R)	0.068	0.038	0.036	0.00	0.142

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 0.01 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.

SDDOT will acquire 0.59 credits from the BCB1 wetland mitigation bank site to mitigate permanent impacts.

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 A2: STREAMS

All efforts to avoid and minimize stream impacts from the project have resulted in approximately 0.30 acres of stream (includes temporary and permanent) becoming impacted. Refer to Section B – Grading Plans for location and boundaries of the impacted streams.

Table of Impacted Streams

Stream Name	Station	Perm. Impact Left (Acres)	Perm. Impact Right (Acres)	Temp. Impact Left (Acres)	Temp. Impact Right (Acres)	Total Impact (Acres)
Brave Bull Creek	24+27.71 (L/R)	0.00	0.097	0.076	0.00	0.173
Brave Bull Creek	133+64.40 (L/R)	0.005	0.114	0.006	0.00	0.125

Action Taken/Required:

It has been determined that project impacts do not require mitigation. Temporary impacts identified in the Table of Impacted Streams will not be mitigated as the finished ground under the bridge will be shaped to match the upstream channel and flood plain and the existing low water channel will be maintained as near as practical to the existing location as designated in Section B – Grading 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 B6: MIGRATORY BIRDS WORK RESTRICTION

All Swallows are state and federally protected under the Migratory Bird Treaty Act of 1918. It is illegal for any person to take, possess, transport, sell, or purchase them or their parts, such as feathers, nests, or eggs, without a permit. Active nests with eggs or chicks inside may not be touched or destroyed without a permit from the U.S. Fish and Wildlife Service (USFWS). Inactive (empty) nests do not require a permit to destroy. Nest or bird removal applications must be justified with strong, compelling reasons such as a health or safety hazard towards humans and/or birds or damage to property.

Action Taken/Required:

Construction activities should not occur in the locations listed in the table below during the migratory bird work restriction without prior approval from the SDDOT Environmental Office to avoid conflicts with nesting migratory birds.

Table of Migratory Birds Restrictions

Station	Migratory Bird Restriction
24+27.71 (L/R)	April 1 to August 31
133+64.40 (L/R)	April 1 to August 31

If necessary, you may do the following to prevent birds from nesting:

Before birds arrive:
Remove old nests and any traces of mud. Since old nests can be reused, remove any potential nests before the birds arrive from winter migration.

Place physical barriers on potential nesting sites to prevent birds from nesting. You may use products such as coroplast, polytetrafluoroethylene (Teflon), Bird Slide™, plexiglass, plastic sheeting, or silicon-based paint coated to the surface. Physical barriers may be a permanent deterrent in preventing birds from nesting in nuisance locations.

After birds arrive:
Remove mud nests frequently, in between nest construction. They may eventually give up on that site if they are not successful in building a nest. You may only destroy nests that do not have eggs or chicks within.

Play sounds of alarm and distress calls of cliff and barn swallows to disrupt nest construction.

If project activities cannot be conducted outside of the seasonal restriction the Contractor will notify the Project Engineer and the Environmental Office Biologist (605-773-3309) to coordinate with the USFWS.

Migratory birds are known to use the project area for nesting, which primarily occurs from April 1st to July 15th.

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 >

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

Belvidere Dam is classified as a 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.

Belvidere Dam 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.

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.

Action Taken/Required:

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.

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 currently covered under a General Permit for Stormwater Discharges Associated with Construction Activities, the contractor will need to submit the dewatering information to the SDDANR using the following form:

<https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_AddTempInfoFillable.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_CGPAppendixCCA2018Fillable.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.

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 >

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8744
RICHARD A. SUDMEIER
SOUTH DAKOTA
01-12-26

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) 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. 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 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
24+27.71 (L/R)	Brave Bull Creek	2322.8’
133+64.40 (L/R)	Brave Bull Creek	2281.9’

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.

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.

