

STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR PROPOSED

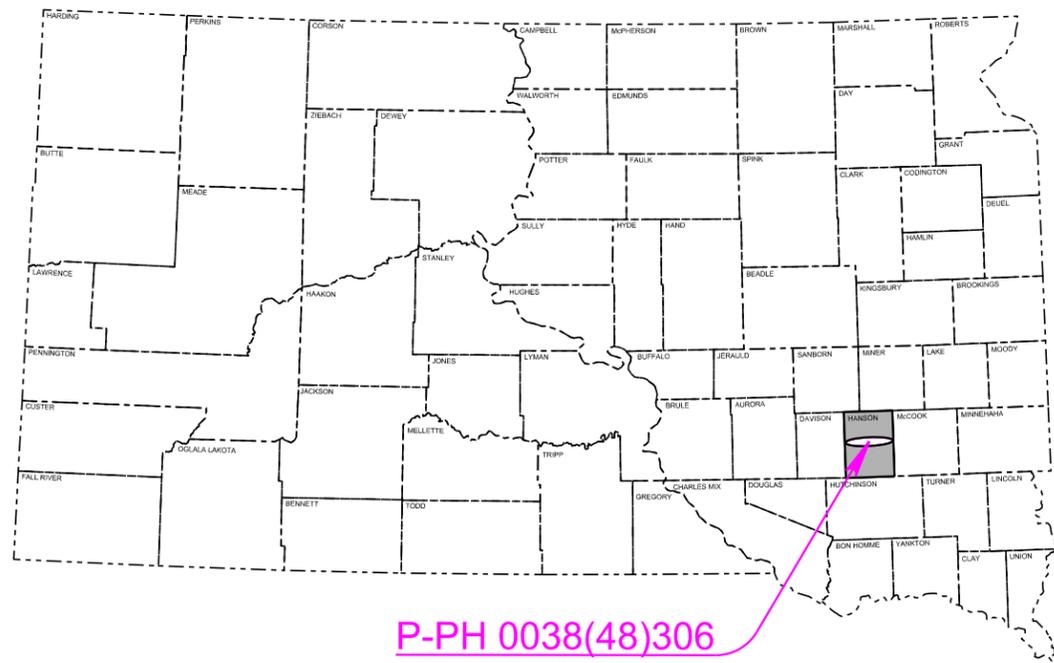
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0038(48)306	1	319

Plotting Date: 02/10/2026 Rev 02/06/2025 ZJA

**PROJECT P-PH 0038(48)306**  
**SD HIGHWAY 38**  
**HANSON COUNTY**  
GRADING, MODIFY INTERSECTION, BOX CULVERT,  
PIPE WORK, & INTERIM SURFACING  
PCN 05FA

INDEX OF SECTIONS

- Section A: Estimate of Quantities and Environmental Commitments
- Section B: Grading Plans
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- Section D: Erosion and Sediment Control Plans
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- Section F: Surfacing Plans
- Section M: Pavement Marking Plans
- Section S: Permanent Signing Plans
- Section X: Cross Sections
- Section Z: Pipe Sections



P-PH 0038(48)306

**BEGIN P-PH 0038(48)306**  
**BEGIN PIPE WORK**  
Station 334+00.00 located 24.26 feet North and 1009.12 feet East of the Northwest corner of Section 27 - Township 103 North - Range 59 West of the 5th P.M. MRM 306.00+0.278

**BEGIN MODIFY INTERSECTION**  
Station 520+18.00

**END PIPE WORK**  
**BEGIN GRADING**  
Station 629+60.00

**Option Borrow Pit**  
N 1/2 of  
Sec 24 - T103N - R57W



DESIGN DESIGNATION

BEGIN TO 421ST AVE		421ST AVE TO END	
AADT (2024)	1901	AAADT (2024)	959
AAADT (2046)	3190	AAADT (2046)	1610
DHV	429	DHV	216
D	50%	D	50%
DHV T%	3.9%	DHV T%	8.0%
AAADT T%	8.7%	AAADT T%	17.6%
V	70 mph	V	70 mph

STORM WATER PERMIT

Major Receiving  
Body of Water: Pierre Creek  
Area Disturbed: 146 Acres  
Total Project Area: 192 Acres  
Approx. Begin Lat,Long: 43.702745, -97.947668

**END MODIFY INTERSECTION**  
Station 551+28.00

**END P-PH 0038(48)306**  
**END GRADING**

Station 1082+24.00 located 54.85 feet South and 1068.66 feet West of the N1/4 corner of Section 25 - Township 103 North - Range 57 West of the 5th P.M. MRM 320.00+0.278

Gross Length 74,950.00 Feet 14.195 Miles  
Length of Exceptions 0.00 Feet 0.000 Miles  
Net Length 74,950.00 Feet 14.195 Miles

Plot Scale - 1:200

Plotted From - TRPR10522

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# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0038(48)306	A1	A7

Plotting Date: 03/12/2026 Rev 03/12/2025 ZJA

## Section B - Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	227	Each
009E3225	Reestablish Public Land Survey System Corner	30	Each
009E3230	Grade Staking	9,901	Mile
009E3245	Final Cross Section Survey	9.164	Mile
009E3250	Miscellaneous Staking	9.164	Mile
009E3280	Slope Staking	9.164	Mile
009E3290	Structure Staking	1	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	57,527	Ft
110E1100	Remove Concrete Pavement	2,493.4	SqYd
110E7040	Remove Gate for Reset	11	Each
110E7500	Remove Pipe for Reset	54	Ft
110E7510	Remove Pipe End Section for Reset	6	Each
120E0010	Unclassified Excavation	371,109	CuYd
120E0500	Option Borrow Excavation	173,491	CuYd
120E1000	Muck Excavation	16,946	CuYd
120E2000	Undercutting	145,957	CuYd
120E6100	Water for Embankment	3,970.8	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
260E6010	Granular Material	160.0	Ton
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	138,518.9	Ton
270E0230	Haul and Stockpile Asphalt Mix Material	10,000.0	Ton
421E0100	Pipe Culvert Undercut	406	CuYd
450E0142	24" RCP Class 2, Furnish	204	Ft
450E0150	24" RCP, Install	204	Ft
450E0162	30" RCP Class 2, Furnish	484	Ft
450E0170	30" RCP, Install	484	Ft
450E0182	36" RCP Class 2, Furnish	168	Ft
450E0190	36" RCP, Install	168	Ft
450E0202	48" RCP Class 2, Furnish	204	Ft
450E0210	48" RCP, Install	204	Ft
450E2028	36" RCP Flared End, Furnish	4	Each
450E2029	36" RCP Flared End, Install	4	Each
450E2036	48" RCP Flared End, Furnish	4	Each
450E2037	48" RCP Flared End, Install	4	Each
450E2200	24" RCP Sloped End, Furnish	6	Each
450E2201	24" RCP Sloped End, Install	6	Each
450E2204	30" RCP Sloped End, Furnish	18	Each
450E2205	30" RCP Sloped End, Install	18	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E3012	24" RCP Arch Class 2, Furnish	504	Ft
450E3020	24" RCP Arch, Install	504	Ft
450E3022	30" RCP Arch Class 2, Furnish	1,276	Ft
450E3030	30" RCP Arch, Install	1,276	Ft
450E3032	36" RCP Arch Class 2, Furnish	84	Ft
450E3040	36" RCP Arch, Install	84	Ft
450E3042	42" RCP Arch Class 2, Furnish	168	Ft
450E3050	42" RCP Arch, Install	168	Ft
450E3052	48" RCP Arch Class 2, Furnish	84	Ft
450E3060	48" RCP Arch, Install	84	Ft
450E4512	36" RCP Arch Flared End, Furnish	2	Each
450E4513	36" RCP Arch Flared End, Install	2	Each
450E4516	42" RCP Arch Flared End, Furnish	4	Each
450E4517	42" RCP Arch Flared End, Install	4	Each
450E4520	48" RCP Arch Flared End, Furnish	2	Each
450E4521	48" RCP Arch Flared End, Install	2	Each
450E4600	24" RCP Arch Sloped End, Furnish	16	Each
450E4601	24" RCP Arch Sloped End, Install	16	Each
450E4604	30" RCP Arch Sloped End, Furnish	26	Each
450E4605	30" RCP Arch Sloped End, Install	26	Each
450E4759	18" CMP 16 Gauge, Furnish	1,180	Ft
450E4760	18" CMP, Install	1,180	Ft
450E4769	24" CMP 16 Gauge, Furnish	430	Ft
450E4770	24" CMP, Install	430	Ft
450E4779	30" CMP 16 Gauge, Furnish	464	Ft
450E4780	30" CMP, Install	464	Ft
450E4789	36" CMP 16 Gauge, Furnish	168	Ft
450E4790	36" CMP, Install	168	Ft
450E5406	18" CMP Safety End, Furnish	36	Each
450E5407	18" CMP Safety End, Install	36	Each
450E5410	24" CMP Safety End, Furnish	14	Each
450E5411	24" CMP Safety End, Install	14	Each
450E5414	30" CMP Safety End, Furnish	14	Each
450E5417	30" CMP Safety End, Install	14	Each
450E5420	36" CMP Safety End, Furnish	4	Each
450E5423	36" CMP Safety End, Install	4	Each
450E5519	24" CMP Arch 16 Gauge, Furnish	304	Ft
450E5520	24" CMP Arch, Install	304	Ft
450E5529	30" CMP Arch 16 Gauge, Furnish	168	Ft
450E5530	30" CMP Arch, Install	168	Ft
450E6010	24" CMP Arch Safety End, Furnish	8	Each
450E6011	24" CMP Arch Safety End, Install	8	Each
450E6014	30" CMP Arch Safety End, Furnish	4	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E6017	30" CMP Arch Safety End, Install	4	Each
* 450E8900	Cleanout Pipe Culvert	1	Each
450E9000	Reset Pipe	54	Ft
450E9001	Reset Pipe End Section	6	Each
451E0004	4" PVC Encasement Pipe	86	Ft
464E0100	Controlled Density Fill	46.4	CuYd
600E0200	Type II Field Laboratory	1	Each
620E0010	Type 1 Right-of-Way Fence	874	Ft
620E0020	Type 2 Right-of-Way Fence	33,223	Ft
620E0030	Type 3 Right-of-Way Fence	8,579	Ft
620E0040	Type 4 Right-of-Way Fence	3,501	Ft
620E0060	Type 6 Right-of-Way Fence	995	Ft
620E0300	Special Right-of-Way Fence	681	Ft
620E0510	Type 1 Temporary Fence	10,162	Ft
620E0520	Type 2 Temporary Fence	1,218	Ft
620E1020	2 Post Panel	71	Each
620E1030	3 Post Panel	135	Each
620E2012	12' Tubular Gate	8	Each
620E2100	Reset Gate	11	Each
720E1015	Bank and Channel Protection Gabion	24.0	CuYd
734E0900	Temporary Diversion Channel for Fish Passage	1	Each
831E0110	Type B Drainage Fabric	68	SqYd
900E0010	Refurbish Single Mailbox	9	Each
900E1150	Concrete Right of Way Marker	32	Each

\* - Denotes Non-Participating

## Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	200.0	Hour
634E0020	Pilot Car	100.0	Hour
634E0110	Traffic Control Signs	1,579.4	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	58	Each
634E1002	Detour and Restriction Signing	1,117.7	SqFt

Plot Scale - 1:200

Plotted From - TRPR13522

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# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0038(48)306	A2	A7
Plotting Date: 02/10/2026		Rev 02/06/2025 ZJA	

## Section D - Erosion Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	3.7	CuYd
110E1693	Remove Erosion Control Wattle	405	Ft
110E1700	Remove Silt Fence	3,912	Ft
230E0010	Placing Topsoil	72,436	CuYd
730E0202	Type B Permanent Seed Mixture	2,141	Lb
730E0206	Type D Permanent Seed Mixture	92	Lb
731E0200	Fertilizing	60.00	Ton
732E0100	Mulching	249.1	Ton
734E0103	Type 3 Erosion Control Blanket	3,555	SqYd
734E0154	12" Diameter Erosion Control Wattle	1,620	Ft
734E0165	Remove and Reset Erosion Control Wattle	405	Ft
734E0510	Shaping for Erosion Control Blanket	840	Ft
734E0602	Low Flow Silt Fence	11,665	Ft
734E0604	High Flow Silt Fence	3,984	Ft
734E0610	Mucking Silt Fence	1,086	CuYd
734E0620	Repair Silt Fence	3,912	Ft
900E1320	Construction Entrance	2	Each

## Section E – Structure Structure No. 31-068-100

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	15	CuYd
421E0200	Box Culvert Undercut	54	CuYd
460E0120	Class A45 Concrete, Box Culvert	25.4	CuYd
460E0300	Breakout Structural Concrete	13.8	CuYd
460E0380	Install Dowel in Concrete	32	Each
480E0100	Reinforcing Steel	3,241	Lb
700E0310	Class C Riprap	87.8	Ton
831E0110	Type B Drainage Fabric	90	SqYd

## Structure No. 31-122-100 Site 1 Alternate A

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	92	CuYd
421E0200	Box Culvert Undercut	145	CuYd
460E0120	Class A45 Concrete, Box Culvert	222.5	CuYd
480E0100	Reinforcing Steel	30,393	Lb
700E0210	Class B Riprap	77.0	Ton
831E0110	Type B Drainage Fabric	89	SqYd

## Structure No. 31-122-100 Site 1 Alternate B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	82	CuYd
421E0200	Box Culvert Undercut	128	CuYd
560E2146	2-11'x9' Precast Concrete Box Culvert, Furnish	80.0	Ft
560E2147	2-11'x9' Precast Concrete Box Culvert, Install	80.0	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	82.7	Ton
831E0110	Type B Drainage Fabric	95	SqYd

## Section F – Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
120E6200	Water for Granular Material	1,841.8	MGal
260E1010	Base Course	14,967.8	Ton
260E1030	Base Course, Salvaged	137,518.9	Ton
260E3500	Temporary Gravel Surfacing	1,000.0	Ton
320E1200	Asphalt Concrete Composite	2,317.2	Ton
330E0010	MC-70 Asphalt for Prime	269.5	Ton
330E0300	SS-1h or CSS-1h Asphalt for Fog Seal	33.5	Ton
330E1000	Blotting Sand for Prime	683.1	Ton
330E3000	Sand for Fog Seal	10.0	Ton
332E0010	Cold Milling Asphalt Concrete	95,238	SqYd
360E0020	AE150S Asphalt for Surface Treatment	234.7	Ton
360E1050	Type 3 Cover Aggregate	3,160.7	Ton

## Section M - Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E1200	High Build Waterborne Pavement Marking Paint, White	667	Gal
633E1205	High Build Waterborne Pavement Marking Paint, Yellow	261	Gal

## Section S - Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0130	Remove Traffic Sign	51	Each
110E7150	Remove Sign for Reset	2	Each
632E1320	2.0"x2.0" Perforated Tube Post	536.0	Ft
632E1340	2.5"x2.5" Perforated Tube Post	46.0	Ft
632E2510	Type 2 Object Marker Back to Back	74	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	164.6	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	212.0	SqFt
632E3500	Reset Sign	2	Each

### INDEX OF SHEETS

A1 and A2 Estimate of Quantities for Sections B, C, D, E, F, M, and S  
A3 to A7 Environmental Commitments

# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

## 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 17.49 acres of wetlands (includes temporary and permanent) becoming impacted. Refer to the Aquatic Resource Impact Summary 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	333+75 – 336+10	0.000	0.000	0.001	0.001	0.002
2	334+90 – 336+10	0.000	0.000	0.000	0.000	0.000
3	340+10 – 340+90	0.000	0.000	0.000	0.000	0.000
4	339+50 – 341+90	0.000	0.000	0.001	0.000	0.001
5	373+90 – 376+70	0.000	0.000	0.001	0.000	0.001
6	406+80 – 407+80	0.000	0.000	0.000	0.000	0.000
7	437+60 – 439+70	0.000	0.000	0.001	0.001	0.002

Wetland No.	Station	Perm. Impact Left (Acres)	Perm. Impact Right (Acres)	Temp. Impact Left (Acres)	Temp. Impact Right (Acres)	Total Impact (Acres)
8	455+50 – 456+60	0.000	0.000	0.000	0.000	0.000
9	488+30 – 491+60	0.000	0.000	0.000	0.000	0.000
10	524+00 – 526+40	0.000	0.004	0.018	0.097	0.119
11	563+50 – 564+95	0.000	0.000	0.000	0.000	0.000
14	607+20 – 608+95	0.000	0.000	0.000	0.000	0.000
15a	653+80 – 659+15	0.000	0.000	0.000	0.101	0.101
15b	655+70 – 656+95	0.000	0.000	0.000	0.023	0.023
16	658+50 – 663+40	0.036	0.000	0.000	0.000	0.036
17a	751+60 – 752+50	0.022	0.003	0.000	0.001	0.026
17b	751+60 – 752+50	0.028	0.000	0.015	0.011	0.054
18a	797+00 – 798+10	0.023	0.000	0.045	0.00	0.068
18b	797+50 – 798+05	0.010	0.000	0.000	0.000	0.010
19	798+40 – 799+00	0.023	0.000	0.023	0.005	0.051
20a West	799+90 – 803+30	0.000	0.000	0.000	0.018	0.018
20a East	804+00 – 813+10	0.193	0.058	0.607	0.055	0.913
20b	804+30 – 807+50	0.077	0.00	0.001	0.00	0.078
21	853+60 – 857+70	0.006	0.061	0.028	0.070	0.165
22	863+50 – 876+10	0.000	0.088	0.000	0.056	0.144
23a	871+30 – 880+90	0.059	0.000	0.222	0.000	0.281
23b	873+70 – 884+70	0.082	0.000	0.004	0.000	0.086
24	877+30 – 882+80	0.000	0.039	0.020	0.144	0.203
25a	892+10 – 899+20	0.000	0.000	0.449	0.085	0.534

Wetland No.	Station	Perm. Impact Left (Acres)	Perm. Impact Right (Acres)	Temp. Impact Left (Acres)	Temp. Impact Right (Acres)	Total Impact (Acres)
25b	891+50 – 898+10	0.122	0.077	0.007	0.139	0.345
26	886+10 – 908+10	0.000	0.000	0.000	0.083	0.083
27	904+95 – 907+50	0.000	0.000	0.000	0.069	0.069
28a	903+70 – 908+30	0.000	0.000	0.222	0.000	0.222
28b	908+30	0.000	0.000	0.010	0.000	0.010
29	909+00 – 915+00	0.072	0.000	0.502	0.000	0.574
30a	925+50 – 936+20	0.000	0.243	0.491	0.394	1.128
30b	924+95 – 935+50	0.378	0.000	0.115	0.000	0.493
31	959+50 – 961+00	0.000	0.000	0.000	0.253	0.253
32	962+00 – 999+80	1.293	0.654	2.808	3.061	7.816
33a	1008+00 – 1036+90	0.000	0.000	0.917	0.256	1.173
33b	1008+80 – 1047+50	0.163	0.586	0.176	0.581	1.506
34	1044+40 – 1047+80	0.089	0.080	0.109	0.130	0.408
35	1062+50 – 1064+50	0.064	0.090	0.043	0.000	0.197
36 – OW 1	456+00 – 456+20	0.000	0.000	0.000	0.000	0.000
37 – OW 2	525+60 – 526+30	0.000	0.000	0.030	0.000	0.030
38 – OW 4	807+00 – 809+30	0.050	0.040	0.090	0.080	0.26
39 – OW 5	973+90 – 974.50	0.000	0.000	0.010	0.000	0.010
40 – OW 6	1045+90 – 1047+80	0.000	0.000	0.000	0.000	0.000
Totals		2.79	2.02	6.97	5.71	17.49

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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## Action Taken/Required:

Wetland mitigation will occur in the same geographical service area (GSA) as the impacted wetlands.

SDDOT will acquire 5.56 FCU from the Ducks Unlimited Sanborn wetland mitigation bank site program 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.

## COMMITMENT A2: STREAMS

All efforts to avoid and minimize stream impacts from the project have resulted in approximately 0.000 acres of stream (includes temporary and permanent) becoming impacted. Refer to the 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)
OW 3	488+30 – 491+60	0.000	0.000	0.000	0.000	0.000
Totals		0.000	0.000	0.000	0.000	0.000

## 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 B1: CONSTRUCTION PRACTICES FOR STREAMS INHABITED BY THE TOPEKA SHINER

The SDDOT Environmental Office has identified the following as Topeka Shiner streams.

#### Table of Topeka Shiner Streams

Station	Stream Name	Ordinary High-Water Elevation
809+00	Pierre Creek	1346.1
525+00	Johnson Creek Tributary	1305 est. bed and bank

## Action Taken/Required:

The Contractor will adhere to the “Special Provision for Construction Practices in Streams Inhabited by the Topeka Shiner”.

Stream turbidity will be monitored during all stages of the project. Turbidity measurements are to be taken in conjunction with normal storm water inspections but can also be taken at the Project Engineer’s discretion during construction activities that may result in increased turbidity (e.g., placing riprap or installing a coffer dam).

Prior to the pre-construction meeting the Contractor will produce and provide the SDDOT Environmental Office a comprehensive Construction Plan that includes all products, materials, and methods of installation and removal for temporary water barriers, cofferdams, and diversion channels including de-watering, handling, storage, and disposal of excavated material and pumped effluent throughout all phases of construction, including post-construction stabilization. Work will not proceed on any of the streams identified in the Table of Topeka Shiner Streams without approval of the Construction Plan by the SDDOT Environmental Office. Upon plan approval, the Construction Plan will be amended to the SWPPP. Fish rescue and seining activities cannot be conducted in freezing conditions or during inclement weather events.

## 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.

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## COMMITMENT B5: NORTHERN LONG-EARED BAT

This project is within the range of suitable habitat for the Northern Long-Eared Bat (NLEB) and/ or the Tri-Colored Bat (TCB) and project work will avoid conflicts with NLEB and/or TCB 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 and/or TCB seasonal work restriction timeframe without approval from the SDDOT Environmental Office.

Station	NLEB Seasonal Work Restriction
520+18 to 1082+24 (L/R)	April 15 to October 31

Tree removal will occur between November 1<sup>st</sup> and April 14<sup>th</sup>.

Perform bridge, culvert or structure removal, replacement, and/or alteration activities between November 1<sup>st</sup> and April 14<sup>th</sup>.

If project activities cannot be conducted outside of the seasonal restriction the Contractor will notify the Project Engineer and the Environmental Office (605-773-3309) to schedule a presence/absence survey.

If bats are observed roosting on trees or infrastructure within the project area prior to and/or during construction, the contractor will halt all on-site activities. The contractor will notify the Project Engineer and the Environmental Office (605-773-3309 or 605-773-5679) of the observed bat presence.

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

Lighting AMM 1. Direct temporary lighting away from suitable habitat during the active season.

Tree Removal/Trimming AMM 2. Ensure tree removal/trimming is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree removal/trimming to ensure contractors stay within clearing limits).

## COMMITMENT C: WATER SOURCE

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

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water ( $\geq 140$  °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

The Contractor will 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 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.

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

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at:  
<https://sdleastwanted.sd.gov/maps/default.aspx>

South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species:  
<https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04>

## COMMITMENT D: WATER QUALITY STANDARDS

### COMMITMENT D1: SURFACE WATER QUALITY

Wolf Creek is classified as a warmwater 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.

Fulton Lake (Johnson Creek) is classified as a warmwater 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.

### 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.

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## 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 Water Quality Program, 605-773-3351.

[https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR\\_TemporaryDischargeNOI2018Fillable.pdf](https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_TemporaryDischargeNOI2018Fillable.pdf)

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 Project Engineer using the following SDDOT Dewatering Info CDX form:

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

The Contractor will contact the local Tribal Office to obtain any required dewatering permits when working within Indian Reservation Land.

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\\_CGPAAppendixCCA2023Fillable.pdf](https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPAAppendixCCA2023Fillable.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>

## 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.

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## 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 7.18 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
809+00	Pierre Creek	1346.1
525+00	Johnson Creek Tributary	1305 est. bed and bank

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 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:

### Table of Tank Locations

Description	Station	L / R
AST Flannery Oil Ethanol Distribute: Highway E 38 Riverside Exit (43.702904, -97.946900)	221+00	L
AST Nustar Mitchell Terminal: 41408 SD Hwy 38	274+00	L
UST Spencer Quarries, INC: 25341 430 <sup>th</sup> Ave Spencer SD	1123+00	L

### Action Taken/Required:

The Contractor will give notice to the Engineer when contaminated soil is encountered on the project. The Engineer will contact the Environmental Office so that contact with the DANR and consultant to inspect and monitor removal of any contaminated soil can be initiated.

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

Petroleum contaminated soil may be disposed of at the Mitchell Regional Land Fill (phone 605-995-8465). Measurement of "Contaminated Material Excavation" will 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 will 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 the Section B – Grading Plans.

## 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.