

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(208)212	1	65

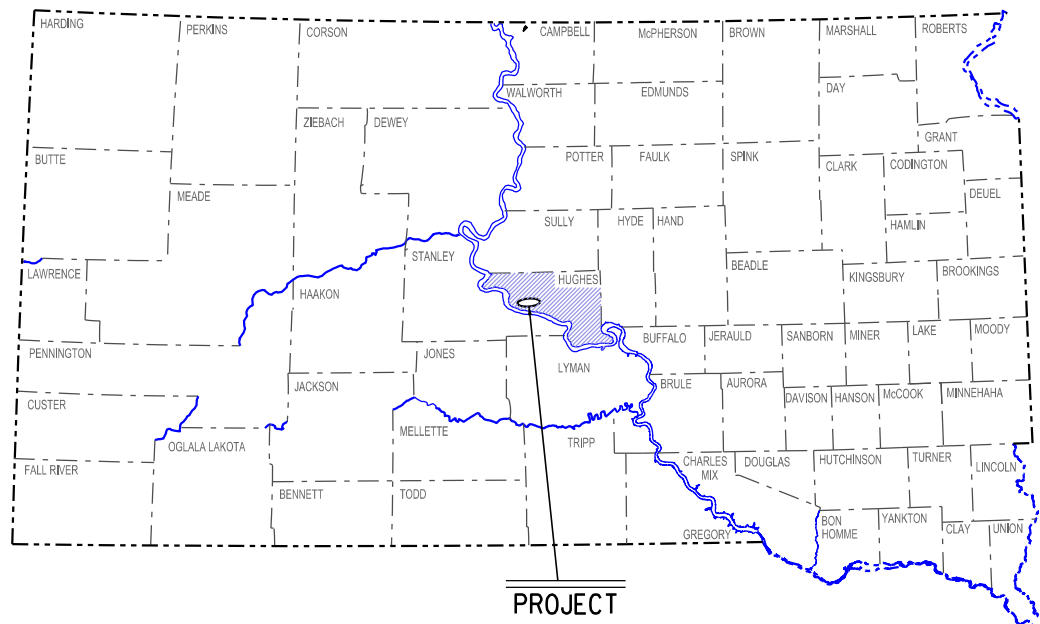
Plotting Date: 02/15/2024

PLANS FOR PROPOSED
PROJECT P 0034(208)212
US HIGHWAY 34
HUGHES COUNTY

COLD MILLING ASPHALT CONCRETE,
ASPHALT CONCRETE RESURFACING, &
BIKE PATH ASPHALT RESURFACING

INDEX OF SECTIONS

- Section A: Estimate of Quantities and Environmental Commitment Notes
- Section C: Traffic Control Plans
- Section F: Surfacing Plans
- Section M: Pavement Marking Plans



PROJECT

PCN 06T0

R 79 W

DESIGN DESIGNATION

(US 34E Divided Section - Eastbound)

ADT(2022)	3365
ADT(2042)	4842
DHV	552
D	50%
T DHV	5.8%
T ADT	12.7%
V	35, 45 & 55 MPH

DESIGN DESIGNATION

(US 34W Divided Section - Westbound)

ADT(2022)	3365
ADT(2042)	4842
DHV	552
D	50%
T DHV	5.8%
T ADT	12.7%
V	35, 45 & 55 MPH

DESIGN DESIGNATION

(US34 Undivided Section)

ADT(2022)	1568
ADT(2042)	2256
DHV	291
D	50%
T DHV	3.2%
T ADT	7.0%
V	55 MPH

STORM WATER PERMIT

None Required

BEGIN EASTBOUND SHOULDER RESURFACING west of Grant Ave along SD34 fm Station 59+60 Rt to Station 76+63 Rt

BEGIN BIKE PATH RESURFACING at Garfield Avenue along mainline SD34 at Station 71+50 Rt

P 0034(208)212 BEGIN MAINLINE RESURFACING at Cleveland Avenue (Divided Section) at Station 76+63 = Station 76+63 on P 0034(29)211 MRM 211.79+0.015

BEGIN VICKMARK ROAD RESURFACING along National Guard Army Complex along mainline SD34 at Station 94+00 Lt

END VICKMARK ROAD RESURFACING along National Guard Army Complex along mainline at SD34 Station 102+00 Lt

Station 113+30 MRM 212.52+0.000 End of Divided Section / Beginning of Undivided Section

P 0034(208)212 END PROJECT / END MAINLINE RESURFACING & END BIKE PATH RESURFACING at Farm Island Road at Station 169+16 = Station 169+16 on P 0034(29)211 MRM 213.05 + 0.534

SD HIGHWAY 34 (Undivided Mainline Section)

GROSS LENGTH	5,586.00 FEET	1.058 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	5,586.00 FEET	1.058 MILES

SD HIGHWAY 34W (Westbound Mainline Divided Section)

GROSS LENGTH	3,667.00 FEET	0.694 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	3,667.00 FEET	0.694 MILES

SD HIGHWAY 34E (Eastbound Mainline Divided Section)

GROSS LENGTH	3,667.00 FEET	0.694 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	3,667.00 FEET	0.694 MILES

SD HIGHWAY 34E (Eastbound Shoulder)

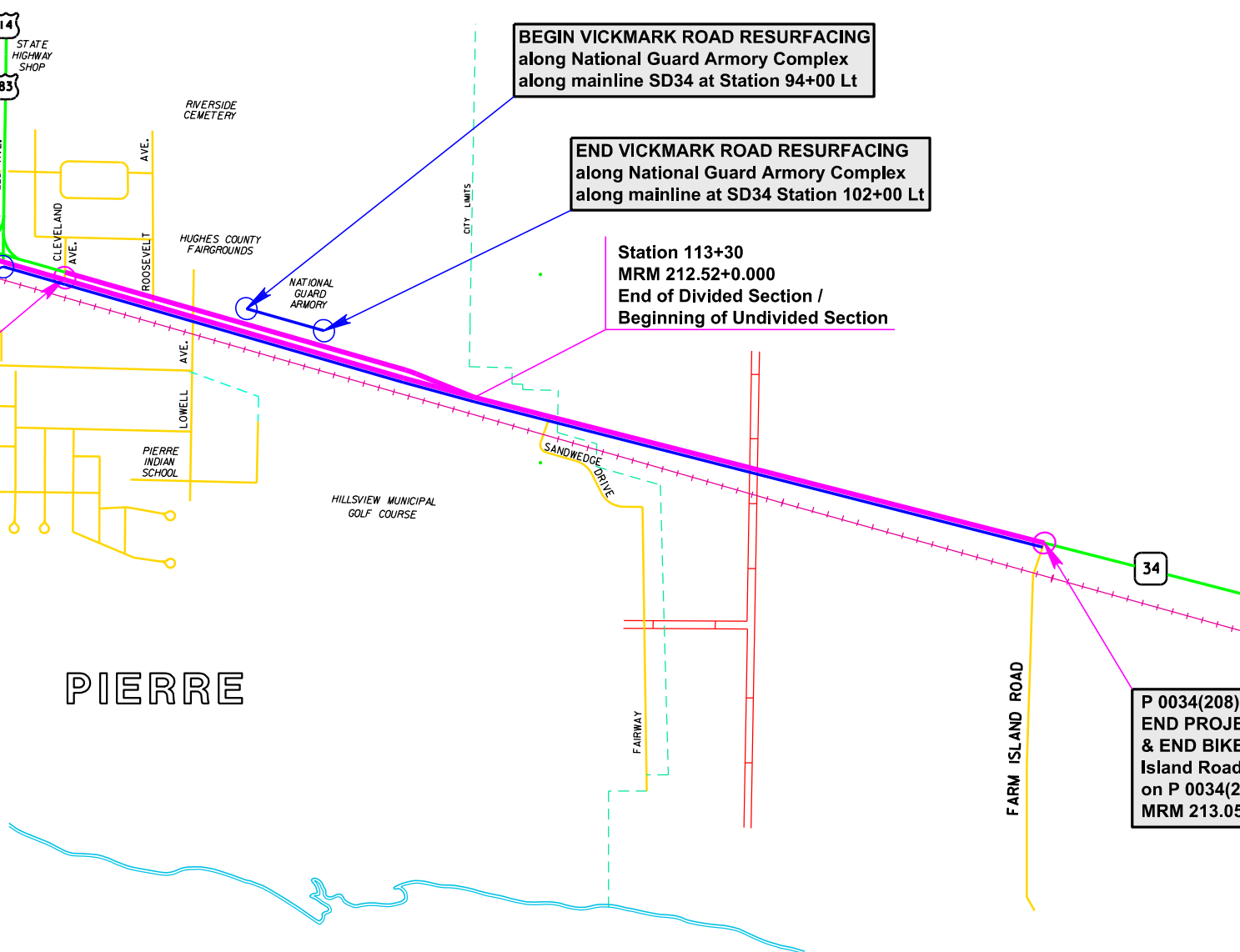
GROSS LENGTH	1,703.00 FEET	0.323 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	1,703.00 FEET	0.323 MILES

BIKE PATH

GROSS LENGTH	9,815.80 FEET	1.859 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	9,815.80 FEET	1.859 MILES

VICKMARK ROAD

GROSS LENGTH	800.00 FEET	0.152 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	800.00 FEET	0.152 MILES



T 110 N

6

April 17, 2024

Plot Scale - 1:16250.3

Plotted From - TRPR26947

File - ...Design\SectionA\Title.dgn

ESTIMATE OF QUANTITIES

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	P 0034(208)212	A1	A3

03/08/2024 Revision by V. Martin
03/13/2024 Revision by V. Martin

SPECIFICATIONS

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

Section C – Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	250.0	Hour
634E0020	Pilot Car	80.0	Hour
634E0110	Traffic Control Signs	1,021.6	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0420	Type C Advance Warning Arrow Board	1	Each
634E0630	Temporary Pavement Marking	12.2	Mile

Section F – Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3200	Construction Staking	Lump Sum	LS
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E3320	Checker	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
110E1010	Remove Asphalt Concrete Pavement	195.0	SqYd
120E0100	Unclassified Excavation, Digouts	130	CuYd
210E0100	Shoulder Clearing	9.2	Mile
260E1010	Base Course	320.0	Ton
* 260E6000	Granular Material, Furnish	1,200.0	Ton
* 270E0200	Blend, Haul, and Stockpile Granular Material	3,000.0	Ton
320E1200	Asphalt Concrete Composite	65.0	Ton
320E1800	Asphalt Concrete Blade Laid	416.9	Ton
320E3000	Compaction Sample	3	Each
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	1.6	Mile
330E0100	SS-1h or CSS-1h Asphalt for Tack	38.7	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	14.1	Ton
330E2000	Sand for Flush Seal	178.7	Ton
332E0010	Cold Milling Asphalt Concrete	59,050	SqYd
600E0300	Type III Field Laboratory	1	Each
900E0010	Refurbish Single Mailbox	8	Each
900E0012	Refurbish Double Mailbox	3	Each

* - Denotes Non-Participating

Alternate A

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0008	PG 64-34 Asphalt Binder	493.6	Ton
320E1050	Class E Asphalt Concrete	7,982.1	Ton

Alternate B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0008	PG 64-34 Asphalt Binder	439.3	Ton
320E1050	Class E Asphalt Concrete	8,191.0	Ton

Section M – Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4"	36,923	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24"	248	Ft
633E0035	Cold Applied Plastic Pavement Marking, Area	25	SqFt
633E0040	Cold Applied Plastic Pavement Marking, Arrow	25	Each
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	36,923	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	248	Ft
633E5020	Grooving for Cold Applied Plastic Pavement Marking, Area	25	SqFt
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	25	Each

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(208)212	A2	A3

03/08/2024 Revision by V. Martin

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 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 B4: BALD EAGLE

Bald eagles are known to occur in this area.

Action Taken/Required:

If a nest is observed within one mile of the project site, notify the Project Engineer immediately so that he/she can consult with the Environmental Office for an appropriate course of action.

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:

<http://sdleastwanted.com/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

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 E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor 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) and the Tribal Historic Preservation Office (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.