

STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION

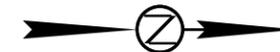
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0019(36)73	1	34

Plotting Date: 08/14/2014

PLANS FOR PROPOSED  
**PROJECT P 0019(36)73**  
**S.D. HIGHWAY 19**  
**MINNEHAHA &**  
**LAKE COUNTIES**

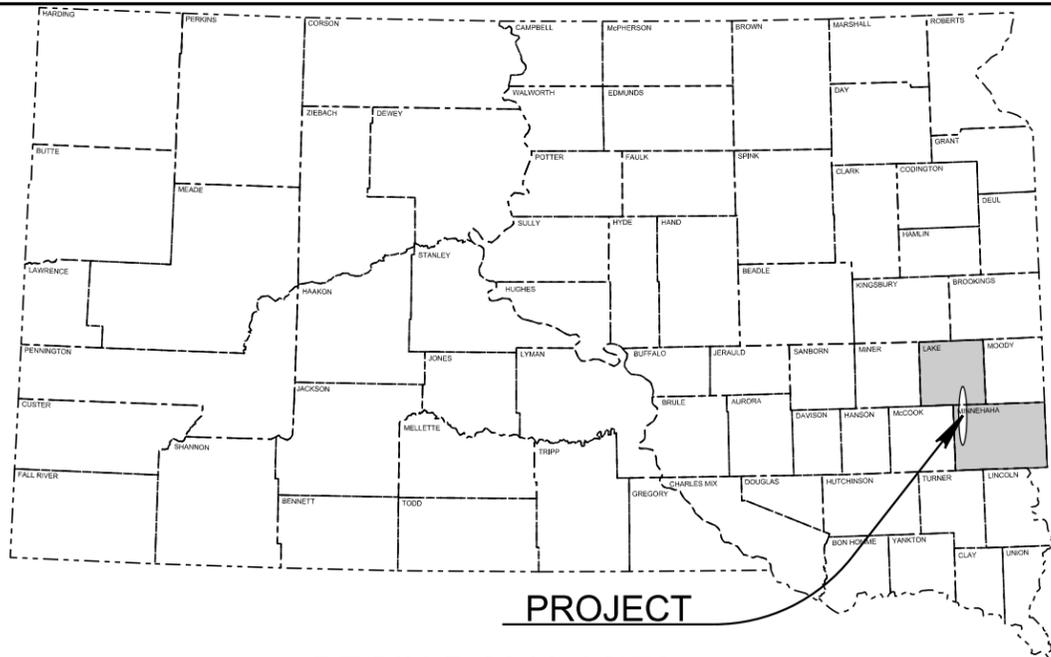
COLD MILLING, SURFACE PREPARATION,  
ASPHALT CONCRETE SURFACING,  
ASPHALT CONCRETE RESURFACING

PCN 026D



INDEX OF SECTIONS

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



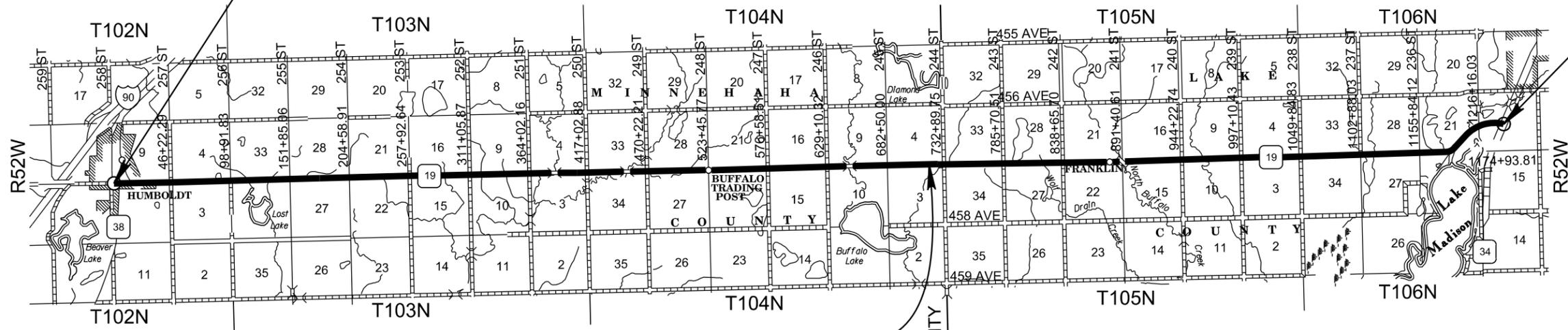
PROJECT

**BEGIN P 0019(36)73**

Begin Resurfacing  
Sta. 1+70  
MRM = 73.73 + 0.027

**END P 0019(36)73**

End Surfacing  
Sta. 1237+00  
MRM = 96.00 + 0.922



End Resurfacing  
Begin Surfacing  
Sta. 725+00

DESIGN DESIGNATION

ADT (2012)	1156
ADT (2032)	1759
DHV	220
D	53%
T DHV	5.1%
T ADT	11.2%
V	65 mph (Resurfacing Areas) 70 mph (Surfacing Areas)

Approx. Begin Lat/Long: 43.6471,-97.0690

STORM WATER PERMIT

No Permit Needed

GROSS LENGTH	123530.00 FEET	23.396 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.00 MILES
NET LENGTH	123530.00 FEET	23.396 MILES

# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 0019(36)73	A1	A2

Revised: 28 Aug 14, LLR

## SPECIFICATIONS

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

### Section C – Traffic Control

Bid Item Number	Item	Quantity	Unit
110E7152	Remove Delineator for Reset	557	Each
632E2100	Reset Delineator	557	Each
634E0010	Flagging	800	Hour
634E0020	Pilot Car	400	Hour
634E0100	Traffic Control	3,736	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0630	Temporary Pavement Marking	66.3	Mile

### Section F – Surfacing

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
120E0100	Unclassified Excavation, Digouts	927	CuYd
120E6200	Water for Granular Material	975.9	MGal
210E1005	Surface Preparation	9.697	Mile
250E0010	Incidental Work	Lump Sum	LS
260E1050	Base Course, Salvaged Asphalt Mix	9,081.8	Ton
260E1080	Base Course, Salvaged, State Furnished	17,163.2	Ton
260E3010	Gravel Surfacing	3,719.5	Ton
320E0005	PG 58-34 Asphalt Binder	3,409.2	Ton
320E1202	Class Q2R Hot Mixed Asphalt Concrete	73,791.1	Ton
320E1800	Asphalt Concrete Blade Laid	1,623.0	Ton
320E4000	Hydrated Lime	757.5	Ton
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	45.5	Mile
330E0010	MC-70 Asphalt for Prime	9.4	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	104.2	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	86.6	Ton
330E2000	Sand for Flush Seal	1,278.1	Ton
332E0010	Cold Milling Asphalt Concrete	193,627	SqYd
462E0100	Class M6 Concrete	2.2	CuYd
600E0300	Type III Field Laboratory	1	Each
651E7000	Type 1 Detectable Warnings	22	SqFt
900E1980	Storage Unit	1	Each

### Section M – Pavement Marking

Bid Item Number	Item	Quantity	Unit
633E0040	Cold Applied Plastic Pavement Marking, Arrow	6	Each
633E1300	Pavement Marking Paint, White	810.0	Gal
633E1305	Pavement Marking Paint, Yellow	324.0	Gal
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	6	Each

## INDEX OF SHEETS

A1	Estimate of Quantities for Sections C, F and M
A2	Environmental Commitments

# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 0019(36)73	A2	A2

## ENVIRONMENTAL COMMITMENTS

An Environmental Commitment is a measure that SDDOT commits to implement in order to avoid, minimize, and/or mitigate a real or potential environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency mentioned below with permitting authority can influence a project if perceived environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office. The environmental commitments associated with this project are as follows:

### COMMITMENT C: WATER SOURCE

The Contractor shall not withdraw water with equipment previously used outside the State of South Dakota without prior approval from the SDDOT Environmental Office. Thoroughly wash all construction equipment before entering South Dakota to reduce the risk of invasive species introduction into the project vicinity.

The Contractor shall not withdraw water directly from streams of the James, Big Sioux, and Vermillion watersheds without prior approval from the SDDOT Environmental Office.

#### Action Taken/Required:

The Contractor shall obtain the necessary permits from the regulatory agencies such as the Department of Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (COE) prior to executing water extraction activities.

### COMMITMENT 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 shall furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

#### Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the State ROW.

The waste disposal site(s) shall be managed and reclaimed in accordance with the following from the General Permit for Highway, Road, and Railway Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) shall not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements shall apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials shall be buried in a trench completely separate from wood debris. The final cover over the construction and/or demolition debris shall consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the State ROW shall be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor shall control the access to waste disposal sites not within the State ROW through the use of fences, gates, and placement of a sign or signs at the entrance to the site stating "No Dumping Allowed".
2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period of time not to exceed the duration of the project. Prior to project completion, the waste shall be removed from view of the ROW or buried and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) shall be incidental to the various contract items.

### COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historical Preservation Office (SHPO or THPO) for all work included within the project limits and all designated option borrow sites provided within the plans.

#### Action Taken/Required:

All earth disturbing activities not designated within the plans require review of cultural resources impacts. This work includes, but is not limited to: staging areas, borrow sites, waste disposal sites, and all material processing sites.

The Contractor shall arrange and pay for a cultural resource survey and/or records search. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor shall provide ARC with the following: a topographical map or aerial view on which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor shall submit the records search or cultural resources survey report and if the location of the site is within the current geographical or historic boundaries of any South Dakota reservation to SDDOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

If evidence for cultural resources is uncovered during project construction activities, then such activities shall cease and the Project Engineer shall be immediately notified. The Project Engineer will contact the SDDOT Environmental Engineer in order to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for staging areas, borrow sites, waste disposal sites, or material processing sites that affect wetlands, threatened and endangered species, or waterways. The Contractor shall provide the required permits and clearances to the Project Engineer at the preconstruction meeting.