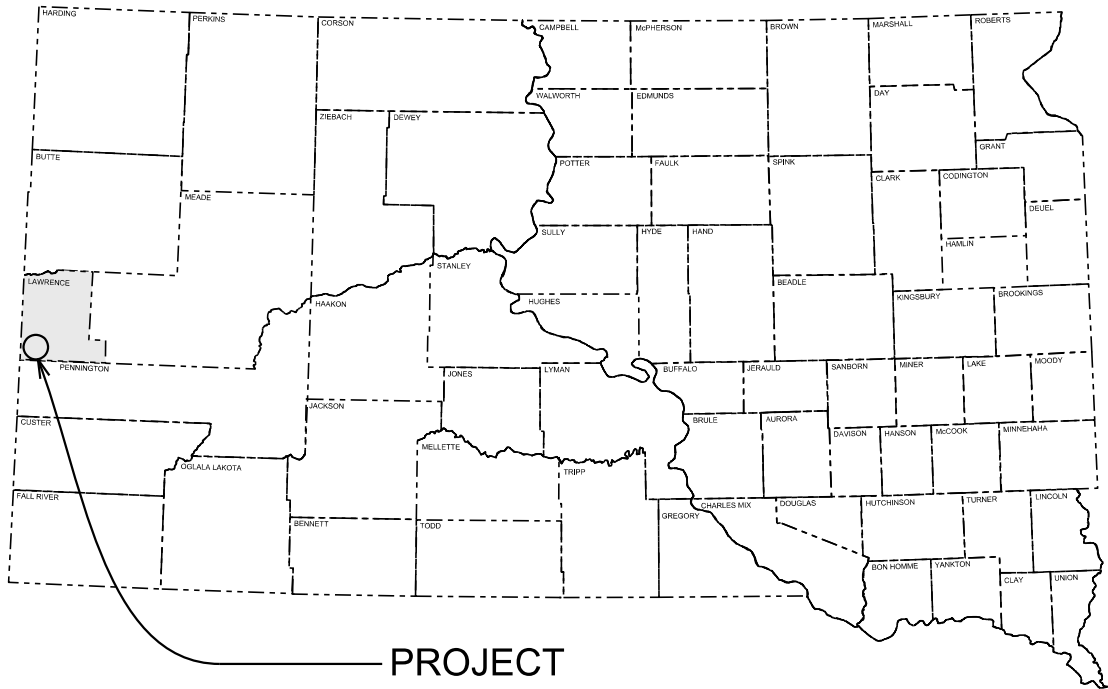


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TRRC-1951

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PROJECT

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

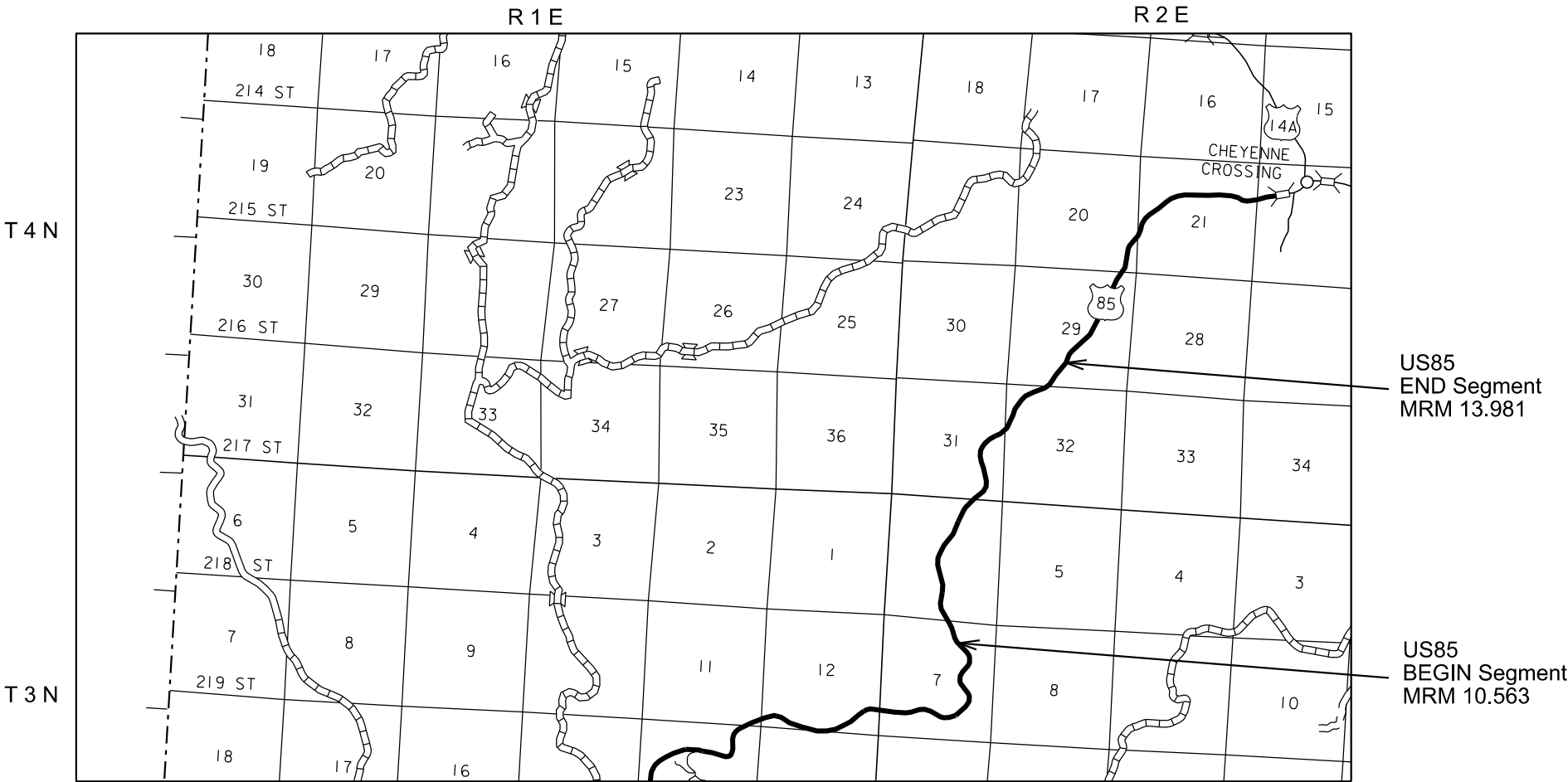
PLANS FOR PROPOSED
PROJECT 085-451
US HIGHWAY 85
LAWRENCE COUNTY
ASPHALT CONCRETE REPAIR
PCN i70T

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	085-451	1	5

Plotting Date: 02/22/2023

INDEX OF SHEETS

- 1 General Layout with Index
- 2 Estimate of Quantities and Plan Notes
- 3 MARLA Map
- 4 - 5 Standard Plates



STORM WATER PERMIT
No Permit Required

File -

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	177.5	Ton
332E0010	Cold Milling Asphalt Concrete	1,577	SqYd
633E1222	High Build Waterborne Pavement Marking Paint, 4" Yellow	16,000	Ft
634E0010	Flagging	200.0	Hour
634E0020	Pilot Car	100.0	Hour
634E0110	Traffic Control Signs	96.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0310	Temporary Flexible Vertical Markers (Tabs)	7,100	Ft

SPECIFICATIONS

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

US HIGHWAY 85 CENTERLINE REPAIRS

The existing asphalt concrete on centerline is in need of repair at the locations listed in the “Table of Centerline Repairs”. The Contractor will cold mill a width of 2’ and a depth of 2” for the lengths as shown in the table. The Contractor will fill the milled areas with Asphalt Concrete Composite. The repair locations will be filled in and temporary markings installed prior to nightfall.

TABLE OF CENTERLINE REPAIRS

MRM START	MRM END	LONGITUDE	LATITUDE	LENGTH	Cold Milling Asphalt Concrete	Asphalt Concrete Composite
				Ft	SqYd	Ton
10.563	10.696	-103.923	44.241	700	156	17.5
11.310	11.500	-103.925	44.251	1000	222	25.0
12.130	12.225	-103.919	44.261	500	111	12.5
12.314	12.352	-103.920	44.263	200	44	5.0
12.598	12.787	-103.916	44.266	1000	222	25.0
12.992	13.144	-103.911	44.270	800	178	20.0
13.175	13.194	-103.908	44.272	100	22	2.5
13.359	13.511	-103.906	44.274	800	178	20.0
13.602	13.981	-103.903	44.277	2000	444	50.0
	TOTAL			7100	1577	177.5

ASPHALT CONCRETE COMPOSITE

Mineral aggregate will be produced from a ledge rock source.

Mineral aggregate for the Asphalt Concrete Composite will conform to the requirements for Class E, Type 1.

Asphalt for Prime and Flush Seal will not be required.

All other requirements in the Standard Specifications for Asphalt Concrete Composite will apply.

SEQUENCE OF OPERATIONS

The Contractor will submit a sequence of operations for approval two weeks prior to the preconstruction meeting. If changes to the sequence of operations are proposed during the project, these must be submitted for review a minimum of one week prior to potential implementation. Approval for changes to the sequence of operations will only be allowed when the proposed changes meet with the Department’s intent for traffic control and sequencing of the work.

GENERAL TRAFFIC CONTROL

Existing guide, route, informational logo, regulatory, and warning signs will be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the Contractor. Cost for this work will be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost will be replaced by the Contractor at no cost to the State.

All temporary traffic control sign locations will be set in the field by the Contractor and verified by the Engineer prior to installation.

All construction operations will be conducted in the general direction of traffic movement.

If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD, whichever is more stringent will be used, as determined by the Engineer.

Unless otherwise stated in these plans, work will not be allowed during hours of darkness.

Fixed location signing placed more than 4 calendar days prior to the start of construction will be covered or laid down until the time of construction. The covers must be approved by the Engineer prior to installation. The cost of materials, labor, and equipment necessary to complete this work will be incidental to other contract items. No separate payment will be made.

All fixed location signs, sign posts, and breakaway bases will be removed within 7 calendar days following pavement marking.

All haul trucks will be equipped with an additional flashing amber light that is visible from the backside of the haul truck. The costs for the flashing amber lights will be incidental to the various related contract items.

FLAGGING

Operations will be conducted so that the traveling public will not have to wait longer than 15 minutes at the flagger station.

It is required that the flaggers and pilot car operators be able to communicate with one another. If an emergency vehicle needs to pass through the project, the Contractor will be required to expedite traffic movement. All costs associated with this will be incidental to the contract unit price per hour for Flagging.

TEMPORARY PAVEMENT MARKING

Temporary flexible vertical markers (tabs) will be required on the top lift of asphalt concrete surfacing.

PERMANENT PAVEMENT MARKING

The Contractor will be required to repaint all disturbed pavement marking centerlines. The Contractor will be required to document and be able to relocate for replacement of the existing markings before the markings are obliterated. The cost to duplicate the existing marking locations will be incidental to the contract unit prices for the various contract items.

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT

All materials will be applied as per manufacturer’s recommendations. High build waterborne pavement marking paint will conform to the supplemental specifications for Section 980.1 B.

Reflective media will consist of glass beads.

RATES OF MATERIALS FOR HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT

Solid 4” line = 22.5 Gals/Mile
Dashed 4” line = 6.2 Gal/Mile
Glass Beads = 8 Lbs/Gal.

All cost for materials, labor and equipment necessary to furnish and install the pavement markings will be incidental to the contract unit price for the respective High Build Waterborne Pavement Marking Paint items.

TRAFFIC CONTROL SIGNS

		CONVENTIONAL ROAD			
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
		CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT			
		96.0			

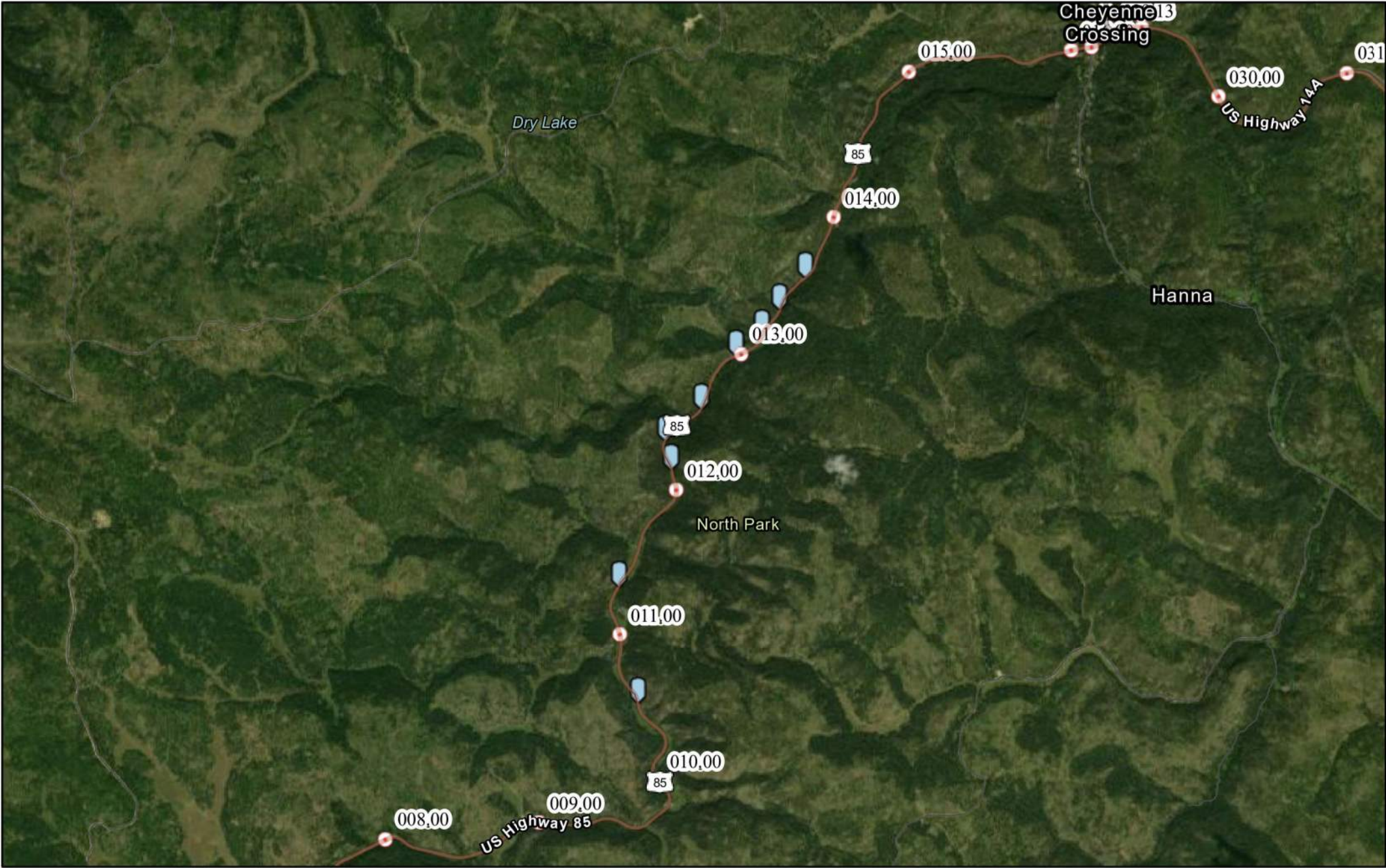
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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	085-451	3	5

Plotting Date: 02/13/2023

Maintenance Repair Location Application (MARLA)



1/23/2023, 1:16:14 PM

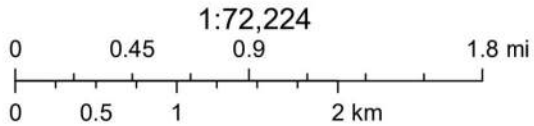
- Mileage Reference Markers
- Maintenance Locations
- Asphalt

- Asphalt Crack Seal
- CRC
- Curb & Gutter Repair/Replace

- Erosion
- Miscellaneous
- PCC Foam Jacking

- PCCP Repair
- Route & Seal PCCP Cracks
- Spall

- Tree Removal
- Drop Inlet Repair



South Dakota Game Fish and Parks, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, Earthstar
South Dakota Department of Transportation
SDDOT-TIM

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	085-451	5	5

Plotting Date: 01/25/2023

