

Planning & Engineering Office of Project Development

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April 11, 2024

ADDENDUM NO. 2

RE: Item #2, April 17, 2024 Letting - IM-NH-P 0012(290), PCN 07D8, Grant, Roberts County -Bridge Deck Polymer Chip Seal, Approach Slabs, Bridge Rail

TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

SPECIAL PROVISIONS: NO CHANGE

SDEBS BID PROPOSAL:

The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.

Bid Items were added:

Bid Item 628E1110 "Movable F Shape Concrete Barrier, End Section"

Quantities for Bid Items were changed:

Bid Item 634E0700 "Traffic Control Movable Concrete Barrier" changed from 124 to 122 Each

- **PLANS:** Please destroy sheets 2, 5, 9, and 23 and replace with the enclosed sheets, dated 4-11-24.
 - **Sheet 2:** Bid Item 628E1110 "Movable F Shape Concrete Barrier, End Section" was added and quantities for Bid Item 634E0700 "Traffic Control Movable Concrete Barrier" changed from 124 to 122 Each.
 - **Sheet 5:** TABLE OF QUANTITIES FOR INFORMATION ONLY was revised.
 - **Sheet 9:** TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS note and table was revised.
 - **Sheet 23:** Standard Plate 628.02 was removed, and Standard Plate 628.11 was added.

Sincerely,

Sam Weisgram Engineering Supervisor

SW/cj

CC: Mark Peterson, Aberdeen Region Engineer Matt Brey, Watertown Area Engineer

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

GENERAL QUANTITIES

BID ITEM	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E0400	Remove Drop Inlet	8	Each
110E0700	Remove 3 Cable Guardrail	543	Ft
110E0730	Remove Beam Guardrail	1,262.5	Ft
110E0740	Remove 3 Cable Guardrail Anchor Assembly	4	Each
110E1010	Remove Asphalt Concrete Pavement	1,212.6	SqYd
110E1100	Remove Concrete Pavement	736.3	SqYd
110E1690	Remove Sediment	1.0	CuYd
120E0600	Contractor Furnished Borrow Excavation	215	CuYd
250E0020	Incidental Work, Grading	Lump Sum	LS
260E1010	Base Course	355.0	Ton
320E1200	Asphalt Concrete Composite	770.0	Ton
332E0010	Cold Milling Asphalt Concrete	4,473	SqYd
380E0090	10" Nonreinforced PCC Pavement	737.6	SqYd
380E6000	Dowel Bar	168	Each
380E6110	Insert Steel Bar in PCC Pavement	48	Each
410E2600	Membrane Sealant Expansion Joint	83.8	Ft
450E0102	12" RCP Class 2, Furnish	68	Ft
450E0110	12" RCP, Install	68	Ft
450E4739	12" CMP 16 Gauge, Furnish	6	Ft
450E4740	12" CMP, Install	6	Ft
450E4759	18" CMP 16 Gauge, Furnish	2	Ft
450E4760	18" CMP, Install	2	Ft
450E5000	12" CMP Elbow, Furnish	2	Each
450E5001	12" CMP Elbow, Install	2	Each
462E0100	Class M6 Concrete	6.5	CuYd
480E0100	Reinforcing Steel	1,297	Lb
* 628E1110	Movable F Shape Concrete Barrier, End Section	2	Each
630E0500	Type 1 MGS	975.0	Ft
630E1500	Type 1 Guardrail Transition	4	Each
630E1501	Type 1 Retrofit Guardrail Transition	6	Each
630E2018	MGS MASH Tangent End Terminal	10	Each
632E2220	Guardrail Delineator	48	Each
633E0030	Cold Applied Plastic Pavement Marking, 24"	12	Ft
633E1220	High Build Waterborne Pavement Marking Paint, 4" White	6,640	Ft
633E1222	High Build Waterborne Pavement Marking Paint, 4" Yellow	5,082	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	12	Ft
634E0010	Flagging	55.0	Hour
634E0110	Traffic Control Signs	914.5	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	20	Each
634E0420	Type C Advance Warning Arrow Board	1	Each
634E0525	Linear Delineation System Panel, Barrier Mounted	122	Each

GENERAL QUANTITIES (Cont)

BID ITEM	ITEM	QUANTITY	UNIT	
634E0600	4" Temporary Pavement Marking Tape Type I	11,870	Ft	
634E0700	Traffic Control Movable Concrete Barrier	122	Each	
634E0750	Temporary Concrete Barrier End Protection	1	Each	
634E0755 Remove and Reset Temporary Concrete Barrier End Protection		1	Each	
634E0760	Temporary Concrete Barrier End Protection Module Set or Repair Kit	1	Each	
634E0900	Portable Temporary Traffic Control Signal	8	Unit	
634E1002	Detour and Restriction Signing	549.3	SqFt	
634E2015	Temporary Pedestrian Access Route	Lump Sum	LS	
634E2025	Longitudinal Pedestrian Barrier	720	Ft	
651E0040	4" Concrete Sidewalk	65	SqFt	
670E0200	Type A Frame and Grate	8	Each	
670E5400	Precast Drop Inlet Collar	8	Each	
734E0010	Erosion Control	Lump Sum	LS	
734E0154	12" Diameter Erosion Control Wattle	300	Ft	
998E0100	Railroad Protective Insurance	Lump Sum	LS	

* - Denotes Non-Participating

Str. No. 26-373-023

BID ITEM	ITEM	QUANTITY	UNIT	
009E3310	Bridge Elevation Survey	Lump Sum	LS	
110E0010	Remove Concrete Bridge Approach Slab	187.4	SqYd	
110E0020	Remove Bridge Railing	213	Ft	
110E1140	Remove Concrete Sidewalk	9.0	SqYd	
120E0010	Unclassified Excavation	24	CuYd	
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS	
410E2600	Membrane Sealant Expansion Joint	73.4	Ft	
430E0300	Granular Bridge End Backfill	30.0	CuYd	
460E0010	Class A45 Concrete, Bridge Barrier	8.3	CuYd	
460E0150	Concrete Approach Slab for Bridge	164.0	SqYd	
460E0160	Concrete Approach Sleeper Slab for Bridge	27.4	SqYd	
460E0300	Breakout Structural Concrete	0.3	CuYd	
470E0120	Steel Pedestrian Railing on Sidewalk	213.3	Ft	
480E0200	Epoxy Coated Reinforcing Steel	1,300	Lb	
480E0504	No. 4 Rebar Splice	28	Each	
480E0505	No. 5 Rebar Splice	32	Each	
480E0506	No. 6 Rebar Splice	44	Each	
491E0005	Two Coat Bridge Deck Polymer Chip Seal	772.6	SqYd	
491E0110	Abrasive Blasting of Bridge Deck	772.6	SqYd	
491E0120	Bridge Deck Grinding	772.6	SqYd	
491E0130	Concrete Removal, Class A	8.0	SqYd	
491E0140	Concrete Removal, Class B	8.0	SqYd	
491E0172	Concrete Patching Material, Bridge Deck	90.0	CuFt	
621E0300	Chain Link Fence for Bridge Sidewalk	213	Ft	
651E0160	6" Reinforced Concrete Sidewalk	251	SqFt	
900E8900	Anchor Bolt Coring	12.0	Ft	

BID ITEM	ITEM	QUANTITY	UNIT	
009E3310	Bridge Elevation Survey	Lump Sum	LS	
110E0010	Remove Concrete Bridge Approach Slab	170.0	SqYd	
120E0010	Unclassified Excavation	46	CuYd	
410E2600	Membrane Sealant Expansion Joint	75.8	Ft	
430E0200	Bridge End Embankment	2	CuYd	
430E0300	Granular Bridge End Backfill	57.6	CuYd	
430E0510	Approach Slab Underdrain Excavation	2.8	CuYd	
430E0700	Precast Concrete Headwall for Drain	4	Each	
460E0070	Class A45 Concrete, Bridge Repair	5.4	CuYd	
460E0150	Concrete Approach Slab for Bridge	170.0	SqYd	
460E0160	Concrete Approach Sleeper Slab for Bridge	37.8	SqYd	
460E0300	Breakout Structural Concrete	5.0	CuYd	
480E0200	Epoxy Coated Reinforcing Steel	920	Lb	
480E0504	No. 4 Rebar Splice	28	Each	
480E0505	No. 5 Rebar Splice	32	Each	
480E0506	No. 6 Rebar Splice	46	Each	
480E5000	Galvanic Anode	40	Each	
491E0005	Two Coat Bridge Deck Polymer Chip Seal	1,164.0	SqYd	
491E0110	Abrasive Blasting of Bridge Deck	1,164.0	SqYd	
491E0120	Bridge Deck Grinding	1,164.0	SqYd	
491E0130	Concrete Removal, Class A	8.0	SqYd	
491E0140	Concrete Removal, Class B	8.0	SqYd	
491E0172	Concrete Patching Material, Bridge Deck	90.0	CuFt	
680E0040	4" Underdrain Pipe	120	Ft	
680E2500	Porous Backfill	5.4	Ton	

	STATE OF	PROJECT	SHEET	TOTAL SHEETS
	SOUTH DAKOTA	IM-NH-P 0012(290)	2	156
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Rev. 4-11-24 SLS

Str. No. 55-115-220

TABLE	OF QUA	NTITIES - FOR	NFORMATION	ONLY			TABLE OF QUANTITIES - F	OR INFO	ORMATION ON	ILY (Continued))		
		PROJECT,	STRUCTURE N	UMBER, ROUT	E & MRM				PROJECT,	STRUCTURE N	UMBER, ROUT	re & MRM	
			M-P 0012(25	0), PCN 07D8	3	Total				IM-P 0012(25	0), PCN 07D8	3	Total
		26-373-023	55-115-220	55-115-270	55-132-190	Total Quantity			26-373-023	55-115-220	55-115-270	55-132-190	Quantity
		SD 109	I-29	I-29 SBL	SD 10	Quantity			SD 109	I-29	I-29 SBL	SD 10	Quantity
BID ITEM DESCRIPTION	UNIT	153.56	229.03	224.02	363.63		BID ITEM DESCRIPTION	UNIT	153.56	229.03	224.02	363.63	
Mobilization	LS	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Galvanic Anode	Each	-	40	-	-	40
Bridge Elevation Survey	LS	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Two Coat Bridge Deck Polymer Chip Seal	SqYd	772.6	1164.0	-	-	1936.6
Remove Concrete Bridge Approach Slab	SqYd	187.4	170	234.8	278.2	870.4	Abrasive Blasting of Bridge Deck	SqYd	772.6	1164.0	-	-	1936.6
Remove Bridge Railing	Ft	213	-	-	-	213	Bridge Deck Grinding	SqYd	772.6	1164.0	-	-	1936.6
Remove Drop Inlet	Each	-	4	2	2	8	Concrete Removal, Class A	SqYd	8.0	8.0	-	-	16.0
Remove 3 Cable Guardrail	Ft	-	-	543	-	543	Concrete Removal, Class B	SqYd	8.0	8.0	-	-	16.0
Remove Beam Guardrail	Ft	-	425.0	162.5	675.0	1262.5	Concrete Patching Material, Bridge Deck	CuFt	90.0	90.0	-	-	180.0
Remove 3 Cable Guardrail Anchor Assembly	Each	-		4		4	Chain Link Fence for Bridge Sidewalk	Ft	213	-	-	-	213
Remove Asphalt Concrete Pavement	SqYd	-	237.1	668.8	306.7	1212.6	Type 1 MGS	Ft	-	150.0	575.0	250.0	975.0
Remove Concrete Pavement	SqYd	-	-	736.3	-	736.3	Type 1 Guardrail Transition	Each	-	4	-	-	4
Remove Sediment	CuYd	-	-	-	1.0	1.0	Type 1 Retrofit Guardrail Transition	Each	-	-	2	4	6
Remove Concrete Sidewalk	SqYd	9.0	-	-	-	9.0	MGS Mash Tangent End Terminal	Each	-	4	2	4	10
Unclassified Excavation	CuYd	24	46	58	42	170.0	Guardrail Delineator	Each	-	16	16	16	48
Contractor Furnished Borrow Excavation	CuYd	-	110	35	70	215	Cold Applied Plastic Pavement Marking, 24"	Ft	12	-	-	-	12
ncidental Work, Grading	LS	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Lump Sum	High Build Waterborne Pavement Marking Paint, 4" White	Ft	900	2126	1526	2088	6640
Base Course	Ton	10.0	130.0	115.0	100.0	355.0	High Build Waterborne Pavement Marking Paint, 4" Yellow	Ft	900	2410	1261	511	5082
Asphalt Concrete Composite	Ton	70.0	260.0	150.0	290.0	770.0	Grooving for Cold Applied Plastic Pavement Marking, 24"	Ft	12	_	_	_	12
Cold Milling Asphalt Concrete	SqYd	556	1931	-	1986	4473	Flagging	Hour	25	10	10	10	55
LO" Nonreinforced PCC Pavement	SqYd	-	-	737.6	-	737.6	Traffic Control Signs	SqFt	338.5	165.0	246.0	165.0	914.5
Dowel Bar	Each	-	-	168	-	168	Traffic Control Miscellaneous	LS	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Lump Su
nsert Steel Bar in PCC Pavement	Each	_	-	48	-	48	Type 3 Barricade	Each	14	2	2	2	20
Structural Steel, Miscellaneous	LS	Lump Sum	-	-	-	Lump Sum	Type C Advance Warning Arrow Panel	Each	-	-	1	-	1
Membrane Sealant Expansion Joint	Ft	73.4	75.8	167.6	83.8	400.6	Linear Delineation System Panel, Barrier Mounted	Each	_	45	42	35	122
Bridge End Embankment	CuYd	-	2	-	-	2	4" Temporary Pavement Marking Tape, Type I	Ft	1388	3888	3600	2994	11870
Granular Bridge End Backfill	CuYd	30.0	57.6	70.7	52.8	211.1	Traffic Control Moveable Concrete Barrier	Each	-	45	42	35	122
Approach Slab Underdrain Excavation	CuYd	-	2.8	3.1	-	5.9	Temporary Concrete Barrier End Protection	Each	-	-	1	-	1
Precast Concrete Headwall for Drain	Each	_	4	2	-	6	Remove and Reset Temporary Concrete Barrier End Protection	Each	_	-	1	_	1
12"RCP, Class 2, Furnish	Ft	_	68	-	-	68	Temporary Concrete Barrier End Protection Module Set or Repair Kit	Each	-	-	1	_	1
L2" RCP, Install	Ft	_	68	_	-	68	Portable Temporary Traffic Control Signal	Unit	4	2	-	2	8
12" CMP 16 Gauge, Furnish	Ft	-	-	-	6	6	Detour and Restriction Signing	SqFt	365.3	184.0	-	-	549.3
12" CMP, Install	Ft	-	-	-	6	6	Temporary Pedestrian Access Route	LS	Lump Sum	-	-	-	Lump Su
18" CMP 16 Gauge, Furnish	Ft	-	-	2	-	2	Longitudinal Pedestrian Barrier	Ft	720	-	-	-	720
18" CMP, Install	Ft	-	-	2	-	2	4" Concrete Sidewalk	SqFt	65	_		-	65
12" CMP Elbow, Furnish	Each	-	2	-	-	2	6" Reinforced Concrete Sidewalk	SqFt	251	-	-	-	251
12" CMP Elbow, Install	Each	-	2	-	-	2	Type A Frame and Grate	Each	-	4	2	2	8
Class M6 Concrete	CuYd	-	3.5	1.3	- 1.7	6.5	Precast Drop Inlet Collar	Each	-	4	2	2	8
Reinforcing Steel	Lb	-	677	286	334	1297	4" Underdrain Pipe	Ft	-	120	105	-	225
Moveable F Shape Concrete Barrier, End		_		200					-			-	
Section	Each	-	1	-	1	2	Porous Backfill	Ton	-	5.4	5.9	-	11.3
Class A45 Concrete, Bridge Barrier	CuYd	8.3	-	-	-	8.3	Erosion Control	LS	-	Lump Sum	Lump Sum	Lump Sum	Lump Su
Class A45 Concrete, Bridge Repair	CuYd	-	5.4	-	-	5.4	12" Diameter Erosion Control Wattle	Ft	-	-	-	300	300
Concrete Approach Slab for Bridge	SqYd	164.0	170.0	190.6	257.2	781.8	Anchor Bolt Coring	Ft	12.0	-	-	_	12.0
Concrete Approach Sleeper Slab for Bridge	SqYd	27.4	37.8	67.5	41.8	174.5	Railroad Protective Insurance	LS	Lump Sum	-	-	-	Lump Su
Breakout Structural Concrete	CuYd	0.3	5.0	-	-	5.3		1					_2p 50
nstall Dowel in Concrete	Each	-	-	-	52	52							
Steel Pedestrian Railing for Sidewalk	Ft	213.3	-	-	-	213.3							
poxy Coated Reinforcing Steel	Lb	1300	920	-	-	213.3							
No. 4 Rebar Splice	Each	28	28	28	36	120							
No. 4 Rebar Splice No. 5 Rebar Splice	Each	32	32		36	120							
No. 5 Rebar Splice	Each	32 44	32 46	48	58	144							

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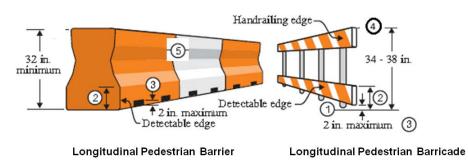
PROJECT

SHEET TOTAL NO. SHEETS

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PEDESTRIAN CHANNELIZING DEVICE DETAILS



- 1. Barricade rail supports may not extend into the pedestrian walkway more than 4 inches from the face of the barricade.
- 2. The top edge of the bottom portion will be a minimum of 8 inches above the walkway.
- 3. Devices will not block water drainage from the walkway. A gap height or opening from the walkway surface up to a maximum of 2 inches in height is allowed for drainage purposes.
- 4. The top edge of the longitudinal pedestrian barricade is to be used as a guiderail to provide visual and tactile guidance to pedestrians along a designated route. The top surface should have a minimum width of 0.5 inches to allow the hand to feel the surface. The surface should be smooth and free of any sharp or abrasive elements to allow safe hand trailing.
- 5. Longitudinal pedestrian barrier used to provide positive protection from traffic to pedestrians should be crashworthy.

TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS

Interior moveable concrete barriers will be provided by the State and are available for pickup from the SDDOT Summit Maintenance Yard located along US 12 west of I-29 Exit 207 and the Watertown Area Office located at 5000 9th Ave SE. The barriers will be hauled back to the location from which they were obtained. There are 14 interior units available at the Summit location. The remainder of the interior units will be obtained from the Watertown location.

New concrete barrier sloped end units will need to be provided by the Contractor and will become the property of the SDDOT upon project completion. The new concrete barrier sloped end units will be constructed as per Standard Plate 628.11. New concrete barrier sloped ends will be hauled to the Watertown Area Office upon completion of the project.

Barrier requirements are as follows:

Structure No.	Moveable Concrete Barrier Interior Unit (Each)	Moveable Concrete Barrier Sloped End Unit (Each)
55-115-220 (I-29 @ MRM 229.03)	45	1
55-115-270 (I-29 SBL @ MRM 224.02)	42	
55-132-190 (SD10)	35	1

Barriers to be adjusted or moved will be disconnected from adjacent barriers to minimize damage to connecting pins. Pins damaged by the Contractor will be replaced at no cost to the Department.

Concrete barrier sections will be placed as depicted in the plans to comply with clear zone requirements and as required by the Engineer. The barriers will be pinned and bolted together as directed by the Engineer.

All costs associated with picking the barriers up from the SDDOT Maintenance Yard, transporting, setting, connecting, and hauling them back to the SDDOT Maintenance Yard will be incidental to the contract unit price per each for TRAFFIC CONTROL MOVABLE CONCRETE BARRIER.

After the initial placement, the concrete barriers may need to be adjusted. Adjustment of the barriers, where they do not need to be loaded on a truck for transport, will be incidental to the contract unit price per each for Traffic Control Movable Concrete Barrier, All costs associated with removing, loading, unloading, and resetting of the barriers at a new site, will be incidental to the contract unit price per each for Remove and Reset Traffic Control Movable Concrete Barrier. No additional payment will be made for barriers that are not immediately reset at a new location on the project and stored on-site until they are either reset on the project or returned to the SDDOT as indicated in these plans.

TEMPORARY CONCRETE BARRIER END PROTECTION

Crash attenuators meeting the requirements of NCHRP 350 or MASH TL-3 will be furnished and installed by the Contractor. Attachment of the attenuators to the concrete barriers will be by approved methods.

All costs associated with furnishing, transporting, initial setup, connecting, maintaining, and removing the crash attenuators will be incidental to the contract unit price per each for Temporary Concrete Barrier End Protection.

All costs associated with moving and resetting crash attenuators to accommodate traffic flows after initial set-up will be paid for at the contract unit price per each for Remove & Reset Temporary Concrete Barrier End Protection. All costs associated with removing from initial placement and resetting at a new location will be incidental to the contract unit price per each. No additional payment will be made for crash attenuators that are not immediately reset at a new location on the project and stored on-site until they are either reset or removed from the project as determined by the Engineer. No additional payment will be made for minor adjustments.

The Contractor will have replacement hardware available so that in the event the crash attenuator is hit and made unusable, the crash attenuator can be made functional within 24 hours. The cost of replacement will be incidental to the contract unit price per each for Temporary Concrete Barrier Module Set or Repair Kit. No payment will be made for the Temporary Concrete Barrier Module Set or Repair Kit if no repairs are necessary. Upon completion of the project, crash attenuators will remain the property of the Contractor.

BARRIER MOUNTED LINEAR DELINEATION SYSTEM PANELS

A linear delineation system (LDS) panel will be attached to each barrier section. The color will be the same as the nearest pavement marking, white along outside edgelines or vellow for the left side on one way traffic sections. The LDS will be 34 inches long and 6 inches in height and be constructed of aluminum formed into a shape to provide retroreflective properties across a wide range of angles. It will be sheeted with sheeting meeting the requirements of ASTM D4956 Type XI. The panels will be evenly spaced, with the top of the panel 4 inches below the top of the barrier. Installation will be as per the manufacturer's recommendations. This will allow for easy removal for replacement of damaged panels or to replace with an alternate color. The Contractor will furnish and install one panel along each side of the barrier if any panels are missing from the barriers. Replacement of damaged linear delineation system panels will be furnished and replaced by the Contractor. All costs associated with furnishing, installing, and replacing, if needed, will be incidental to the contract unit price per each for Linear Delineation System Panel, Barrier Mounted.

All LDS panels will remain attached to the barrier sections and will become the property of the State of South Dakota upon completion of the project.

The Contractor will verify the number of LDS panels that will need to be installed or replaced on the Traffic Control Movable Concrete Barriers. The contract amount of LDS panels is an estimate and the full contract amount may not be needed.

Maintaining the linear delineation system, including moving LDS panels from one side of the barrier to the other side of the barrier to match the applicable color of the nearest pavement marking will be incidental to the contract lump sum price for Traffic Control, Miscellaneous.

PROTECTION OF BRIDGE JOINTS

It may be necessary to use special methods and equipment to remove/place material as close as practical to structure appurtenances. Also, the Contractor will mask all expansion joints prior to any removal/placement of material near the joints. The joints will be protected throughout completion of the work. Once the masking has been removed any loose material contained within the joint will be cleaned from the joint. Any damage to the expansion joints along with any existing structure appurtenances will be repaired by the Contractor to the satisfaction of the Engineer at no cost to the Department. All costs related to this work will be incidental to various contract items.

EXISTING PCC PAVEMENT

STATE OF			TOTAL SHEETS
SOUTH DAKOTA	IM-NH-P 0012(290)	9	156

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The existing concrete is 10" Plain Jointed PCC Pavement. The aggregate in the existing Plain Jointed PCC Pavement is Crushed Ledge Rock.

