



Department of Transportation

Office of Project Development

700 E Broadway Avenue

Pierre, South Dakota 57501-2586 605/773-3268

FAX: 605/773-6608

August 7, 2014

ADDENDUM NO. 1

RE: Item #2, August 13, 2014 Letting - NH 0016(78)67, PCN 01TH, Pennington County - Urban Grading, Storm Sewer, C&G, Sidewalk, Lighting, Signals, PCCP Surfacing, & Bridge Rehabilitation

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: Please remove the Special Provisions checklist and replace with attached Special Provisions checklist revised 8/4/14.

Please remove the "Special Provision for Public Information / Public Relations", dated 1/30/14 and replace with the "Special Provision for Public Information / Public Relations", dated 8/4/14.

BID ITEM FILE: *Bidders must log in to retrieve the addendum bid item file that must be loaded into the SDEBS to incorporate the revisions listed here.*

Bid Item was added:

Bid Item 450E8450 "Storm Sewer Video Inspection"

PLANS: Please destroy sheets A1, B2, and replace with the enclosed sheets, dated 8/5/14 and 8/7/14. Sheet B7a was added.

Sheet A1: Bid Item 450E8450 "Storm Sewer Video Inspection" was added.

Sheet B2: Bid Item 450E8450 "Storm Sewer Video Inspection" was added.

Sheet B7a: Sheet was added for STORM SEWER VIDEO INSPECTION note.

HIGHWAY 16 – Mt Rushmore Road Utility Plans "01TH As-Constructed Private Utility Corridor May 2014.pdf" are being provided for informational purposes only and are available on the Department's FTP server at ftp://ftp.state.sd.us/DOT/Project Development/Bid_Letting/

Username: dotmachgrad

Password: T3n51#Pe

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Todd Seaman, Rapid City Region Engineer
Gary Engel, Rapid City Area Engineer

REV. 8/4/14

SPECIAL PROVISIONS

PROJECT NUMBER(S): NH 0016(78)67 PCN: 01TH

TYPE OF WORK: URBAN GRADING, STORM SEWER, C&G, SIDEWALK, LIGHTING, SIGNALS, PCCP SURFACING, & BRIDGE REHABILITATION

COUNTY: PENNINGTON

The following clauses have been prepared subsequent to the Standard Specifications for Roads and Bridges and refer only to the above described improvement, for which the following Proposal is made. In case of any discrepancy or conflict between said specifications and these Special Provisions, the latter are to govern.

The Contractor's attention is directed to the need for securing from the Department of Environment & Natural Resources, Foss Building, Pierre, South Dakota, permission to remove water from public sources (lakes, rivers, streams, etc.). The Contractor should make his request as early as possible after receiving his contract, and insofar as possible at least 30 days prior to the date that the water is to be used.

Penny Kutz is the official in charge of the Rapid City Career Center for Pennington County.

THE FOLLOWING ITEMS ARE INCLUDED IN THIS PROPOSAL FORM:

Special Provision for Contract Time, dated 6/26/14.

Special Provision for Subletting of Contract, dated 1/27/14.

Special Provision Regarding Combination of Bids, dated 7/14/14.

Special Provision for Public Information / Public Relations, dated 8/4/14.

Special Provision for On-The-Job Training Program, dated 7/10/12.

Special Provision for Signal Head Battery Backup and Flash System, dated 1/27/14.

Special Provision for Emergency Vehicle Preemption System, dated 1/27/14.

Special Provision for Contractor Furnished Mix Designs for PCC Pavement, dated 11/17/11.

Special Provision for Patterning Type C Retaining Wall, dated 1/30/14.

Special Provision for PCC Pavement Smoothness, dated 9/20/05.

Special Provision for Contractor Staking, dated 1/30/14.

List of Utilities.

Special Provision for Contractor Administered Preconstruction Meeting, dated 4/18/13.

Special Provision for Electronic Bidding Requirements, dated 12/18/13.

Special Provision for Fuel Cost Adjustment, dated 7/13/06.

Special Provision for Differing Site Conditions, dated 12/19/13.

Special Provision for Suspension of Work, dated 2/13/04.

Standard Title VI Assurance, dated 7/14/08.

Special Provision For Disadvantaged Business Enterprise, dated 12/19/12.

Special Provision For EEO Affirmative Action Requirements on Federal and Federal-aid Construction Contracts, dated 9/1/97.

Special Provision For Required Contract Provisions Federal-aid Construction Contracts, Form FHWA 1273 (Rev. May/1/12), dated 4/30/13.

Required Contract Provisions Federal-aid Construction Contracts, Form FHWA 1273 (Rev. 5/1/12).

Special Provision Regarding Minimum Wage on Federal-Aid Projects, dated 4/30/13.

Wage and Hour Division US Department of Labor Washington DC.

- US Dept. of Labor Decision Number SD100010, dated 8/30/13.

Supplemental Specification for Errata, dated 3/3/10.

Supplemental Specification to Standard Specifications for Roads and Bridges, dated 3/3/10.

Special Provision for Price Schedule for Miscellaneous Items, dated 9/26/13.

Special Provision Regarding Storm Water Discharge, dated 5/3/13.

General Permit for Storm Water Discharges Associated with Construction

Activities, dated 2/1/10. <http://denr.sd.gov/des/sw/Permits/ConstructionGeneralPermit2010.pdf>

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**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION
FOR
PUBLIC INFORMATION / PUBLIC RELATIONS**

**PROJECT NH 0016(78)67, PCN 01TH
PENNINGTON COUNTY**

AUGUST 4, 2014

The South Dakota Department of Transportation views the presence of an integrated Public Information/Public Relations Plan as a key element of any successful urban reconstruction project. The key to implementing this program is effective and open communication, which ultimately leads to trust between the SDDOT, the Contractor, the City of Rapid City, and the residents/business owners adjacent to the project. The Contractor must be a willing and committed participant in the Public Information/Public Relations Plan. Success of this plan will require a dedicated partnership between the SDDOT and the Contractor.

The SDDOT's goals for implementation of this partnership with the Contractor are as follows:

- ▶ Inform the public and adjacent businesses in a timely manner of construction activities and progress.
- ▶ Eliminate/mitigate construction impacts on the general public to the greatest degree possible while working within schedule constraints and other project restrictions.
- ▶ Encourage traffic to continue to utilize Mt. Rushmore Road during construction and shop at Mt. Rushmore Road businesses.
- ▶ Encourage traffic to not block entrances.
- ▶ Discourage use of local residential streets that are not intended for higher volumes of traffic.
- ▶ Communicate Temporary Pedestrian Access Route to area residents and commuters for access to businesses within the work area.

The Contractor shall accomplish these goals in the following manner:

- ▶ Selection of a public information specialist who shall team with the SDDOT and City of Rapid City points of contact.
- ▶ Developing and implementing a process for communicating with the public, adjacent businesses and local agencies.

- ▶ Listening to and responding to concerns of the public, adjacent businesses and impacted agencies.
- ▶ Taking a proactive approach and being prepared for public concerns.

Public Information/Public Relations Requirements:

1. Prior to starting the project, the Contractor shall designate a public information specialist for the project and shall notify the SDDOT of such appointment. The public information specialist will be the point of contact for the SDDOT, the City, and the public. This person may **not** be an employee of the Contractor.
2. The Contractor's public information specialist will work closely with SDDOT and City points of contact. The SDDOT public information points of contact for this project are the Rapid City Area Engineer (605-394-2248) and the Public Information Officer (605-773-7179). The City's point of contact is Klare Schroeder (605-394-4154).
3. The Contractor's public information specialist shall conduct all public meetings and issue all public notices in accordance with the Department's Public Involvement Plan. The Department's Public Involvement Plan can be obtained from the Area office or from the Department's website at: <http://www.sddot.com/pub.asp>
Public notice and public meeting requirements can be found in Section 3, Section 5, Appendix F, and Appendix G.
4. The Contractor's public information specialist shall conduct a meeting with emergency services and media personnel prior to construction. The purpose of the meeting is to establish points of contact and develop working relationships. SDDOT has identified emergency points of contact as:

South Dakota Highway Patrol	394-2286
Rapid City Fire Department/Ambulance	394-4180
Rapid City Police Department	394-6031
Pennington Co. Sheriff	394-6113
Rapid City Regional Hospital	719-1000
and Vern Osterloo	719-8915
Pennington Co. Emergency Management	394-2185
Rapid City Area School District	
5. The Contractor's public information specialist shall schedule and conduct an open house approximately two weeks before traffic control is placed and the project begins. The purpose of the open house is to communicate the overall plan and sequence of the project to the public.

6. The Contractor's public information specialist shall schedule and conduct weekly informal partnering meetings, weekly updates to the Mount Rushmore Road Business Group, Black Hills Badlands and Lakes Association, and South Dakota Department of Tourism, and periodic Chamber of Commerce meetings during the project (specifically prior to major changes in traffic routing) to update the public on openings, closings, and changes in the project.
7. During the course of the project, the Contractor's public information specialist shall provide the public and adjacent businesses with project fact sheets that are written in non-technical language. These sheets shall provide general information about the project as well as information regarding upcoming construction events. The fact sheets shall also provide the public and businesses with ideas on how to cope with construction impacts. These fact sheets shall be coordinated with the Rapid City Chamber of Commerce, Mount Rushmore Road Business Group, Black Hills Badlands and Lakes Association, and South Dakota Department of Tourism.
8. The Contractor's public information specialist shall provide target audiences such as businesses, local residents, commuters, government agencies, community agencies, and the general public with up-to-date information through various resources on closures, delays, work activities, and recommended detours/routing.
9. The required methods of communication include:
 - (a) A web site linked to the SDDOT and City of Rapid City web sites. The web site shall be operational prior to the start of construction. The web site shall be updated as construction and detour/routing changes occur. It is not intended that this be an elaborate pictorial web site, but rather a site for the public to access written information on project activities and to view Contractor provided construction maps.
 - (b) A weekly written update in flier form. The Contractor's public information specialist shall solicit physical or email addresses, depending on desired delivery method, and distribute a weekly written update in flier form throughout the project limits. For this purpose, the project limits shall be defined as the entire length of the project, the width of the project extending to 1 intersecting road or street, and any routes directly affected by construction traffic, detour traffic, and vehicular traffic queues.
 - (c) A phone number for the public's use to receive information, ask questions, and express opinions. This phone number will belong to the Contractor's public information specialist and shall be published with each press release.
 - (d) Periodic meetings with community and elected officials to communicate plans and goals, and to receive input on upcoming community activities

and special events that may generate significant additional traffic through the project.

- (e) Project team members will speak at community, governmental, and organizational meetings when such groups request the opportunity for input and/or information regarding the project. Formal, prepared presentations will not be required.
- (f) Provide written media updates/press releases to the following outlets:

TV – Weekly, or as needed, fax updates on closures, routing/detours and schedule changes. Stations will be encouraged to air stories regarding the project. TV stations will include:

KOTA TV - ABC
KNBN TV - NBC
KCLO TV - CBS
KEVN TV - FOX

Radio – Weekly, or as needed, fax updates on closures, routing/detours and schedule changes. Stations will be encouraged to air stories regarding the project. Radio stations will include:

KIMM Radio AM 1150
KKLS Radio FM 97.5/AM 920
KTOQ Radio AM 1340
KOTA – AM 1380
KAT Country – FM 98.7
FOX – FM 100.3
KCRS – FM 93.1
MIX – FM 93.9
KSLT – FM 107.1
KLMP – FM 88.3

Newspaper - Weekly, or as needed, fax updates on closures, routing/detours and schedule changes. Newspapers will be encouraged to print updated copies of the corridor maps showing closures, routing/detours. Newspaper publications will include:

Rapid City Capital Journal

10. In paragraph one of this provision, it states, "The key to implementing this program is effective and open communication, which ultimately leads to trust between the SDDOT, the Contractor, the City of Rapid City, and the residents/business owners adjacent to the project." In an effort to develop this trust, the Contractor and SDDOT will work cooperatively regarding public information and public relations. The Contractor, based on the contract provision/bid item, will take the lead on developing information to release to

the public based on the Contractor's plans/schedule. The SDDOT will have an opportunity to review and comment on all information releases. The SDDOT will provide all necessary corridor maps to the Contractor's public information specialist. The key elements of this relationship are "trust and cooperation."

Through the above means the Contractor and SDDOT will form a "public information team" that will communicate the "who, what, when, where, why and how" of the project.

Basis for Payment

All costs associated with the work specified herein shall be incidental to the lump sum price for Public Information.

Payment for public information/public relation services will be made as follows:

1. 20% of contract item price at designation of public information specialist. Failure to complete this work to the satisfaction of the SDDOT could result in liquidated damages being assessed up to \$4,000.
2. 30% of contract item price when web site has been developed and is launched for use. Failure to complete this work to the satisfaction of the SDDOT could result in liquidated damages being assessed up to \$3,000.
3. 40% of contract item price following initial meeting with emergency services personnel and media contacts (#3 under "Requirements") and open house for the public (#4 under "Requirements"). Failure to complete this work to the satisfaction of the SDDOT could result in liquidated damages being assessed up to \$2,000.
4. 50% of contract item price when construction project is 25% completed and it is deemed by the SDDOT that the Contractor meets the public information and public relations needs. Failure to complete this work to the satisfaction of the SDDOT could result in liquidated damages being assessed up to \$2,000.
5. 75% of contract item price when construction project is 50% completed and it is deemed by the SDDOT that the Contractor meets the public information and public relations needs. Failure to complete this work to the satisfaction of the SDDOT could result in liquidated damages being assessed up to \$2,000.

6. 90% of contract item price when construction project is 75% completed and it is deemed by the SDDOT that the Contractor meets the public information and public relations needs. Failure to complete this work to the satisfaction of the SDDOT could result in liquidated damages being assessed up to \$2,000.
7. 100% of contract item price when construction project is 100% completed and final inspection has been concluded.

NOTE: Each of items #1, #2, and #3 (Basis for Payment) must be completed satisfactorily before partial payment will be made. The sum of the liquidated damages is cumulative up to \$15,000. The SDDOT Area Engineer or his representative and the Contractor's public information specialist will discuss and evaluate public information and public relations performance at item #5 (Basis for Payment) to determine the level of success and process adjustments needed (number of complaints, number of accidents, traffic flow, etc.).

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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0016(78)67	A1	A5

Rev 8/05/14 by NAS

Grading – Section B

Grading – Section B (Cont'd)

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	3,880	Mile
009E3250	Miscellaneous Staking	0.776	Mile
009E3280	Slope Staking	0.776	Mile
009E3290	Structure Staking	5	Each
009E3300	Three Man Survey Crew	100.0	Hour
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	1,641	Ft
110E0320	Remove Concrete Gutter	142	Ft
110E0400	Remove Drop Inlet	10	Each
110E0460	Remove Manhole	2	Each
110E0740	Remove 3 Cable Guardrail Anchor Assembly	4	Each
110E0745	Remove 3 Cable Guardrail Slip Base Anchor Assembly	4	Each
110E1010	Remove Asphalt Concrete Pavement	3,342.8	SqYd
110E1100	Remove Concrete Pavement	9,390.3	SqYd
110E1120	Remove Concrete Median Pavement	1,523.8	SqYd
110E1130	Remove Concrete Driveway Pavement	1,630.1	SqYd
110E1140	Remove Concrete Sidewalk	1,995.8	SqYd
110E1300	Remove Concrete Retaining Wall	472.3	Ft
110E4100	Salvage 3 Cable Guardrail	982	Ft
110E4290	Salvage Beam Guardrail	670.0	Ft
110E7700	Remove Drop Inlet Frame and Grate Assembly for Reset	1	Each
120E0010	Unclassified Excavation	24,892	CuYd
120E0600	Contractor Furnished Borrow	250	CuYd
120E0900	Contaminated Material Excavation	300	CuYd
120E2000	Undercutting	5,504	CuYd
120E6100	Water for Embankment	198.0	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
270E0020	Salvage and Stockpile Asphalt Mix Material	880.0	Ton
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	6,634.0	Ton
380E3540	8" PCC Approach Pavement	502.9	SqYd
380E4010	6" PCC Fillet Section	9.9	SqYd
380E4090	10" PCC Fillet Section	334.0	SqYd
420E0400	Structure Excavation, Miscellaneous	225	CuYd
421E0100	Pipe Culvert Undercut	100	CuYd
450E0123	18" RCP Class 3, Furnish	2,942	Ft
450E0130	18" RCP, Install	2,942	Ft
450E0143	24" RCP Class 3, Furnish	1,232	Ft
450E0150	24" RCP, Install	1,232	Ft
450E0162	30" RCP Class 2, Furnish	540	Ft
450E0170	30" RCP, Install	540	Ft
450E0184	36" RCP Class 4, Furnish	198	Ft
450E0190	36" RCP, Install	198	Ft
450E0202	48" RCP Class 2, Furnish	18	Ft
450E0210	48" RCP, Install	18	Ft
450E0222	60" RCP Class 2, Furnish	48	Ft
450E0230	60" RCP, Install	48	Ft
450E0234	66" RCP Class 4, Furnish	148	Ft
450E0240	66" RCP, Install	148	Ft
450E0408	18" RCP Bend, Furnish	1	Each
450E0409	18" RCP Bend, Install	1	Each
450E0424	30" RCP Bend, Furnish	1	Each
450E0425	30" RCP Bend, Install	1	Each
450E0448	66" RCP Bend, Furnish	1	Each
450E0449	66" RCP Bend, Install	1	Each
450E0700	RCP Tee, Furnish	4	Each
450E0701	RCP Tee, Install	4	Each
450E1000	RCP Wye, Furnish	1	Each
450E1001	RCP Wye, Install	1	Each
450E1400	RCP Reducer, Furnish	1	Each

Bid Item Number	Item	Quantity	Unit
450E1401	RCP Reducer, Install	1	Each
450E2304	18" RCP Safety End, Furnish	2	Each
450E2307	18" RCP Safety End, Install	2	Each
450E4767	24" CMP 12 Gauge, Furnish	82	Ft
450E4770	24" CMP, Install	82	Ft
450E5015	24" CMP Elbow, Furnish	2	Each
450E5016	24" CMP Elbow, Install	2	Each
450E5410	24" CMP Safety End, Furnish	1	Each
450E5411	24" CMP Safety End, Install	1	Each
450E5432	48" CMP Safety End, Furnish	1	Each
450E5435	48" CMP Safety End, Install	1	Each
450E8014	24" RCP to CMP Transition, Furnish	1	Each
450E8015	24" Pipe Transition, Install	1	Each
450E8034	48" RCP to CMP Transition, Furnish	1	Each
450E8035	48" Pipe Transition, Install	1	Each
450E8450	Storm Sewer Video Inspection	4,256	Ft
462E0100	Class M6 Concrete	68.7	CuYd
462E0200	Controlled Density Fill	85.0	CuYd
470E0025	Cable Handrail	391.0	Ft
480E0100	Reinforcing Steel	6,538	Lb
530E0310	Special Type C Concrete Retaining Wall	986	SqFt
600E0200	Type II Field Laboratory	1	Each
630E0110	Straight Double Class A Thrie Beam Guardrail with Wood Posts	75.0	Ft
630E1010	Straight Class A W Beam Guardrail with Wood Posts	312.5	Ft
630E2000	W Beam to Thrie Beam Guardrail Transition	4	Each
630E2020	W Beam Guardrail Tangent End Terminal	2	Each
650E0060	Type B66 Concrete Curb and Gutter	1,021	Ft
650E0100	Type B610 Concrete Curb and Gutter	4,555	Ft
650E1100	Type F610 Concrete Curb and Gutter	2,013	Ft
650E2000	Concrete Barrier Curb and Gutter	52	Ft
650E2100	Special Concrete Curb and Gutter	292	Ft
650E4400	Type D410 Concrete Curb and Gutter	661	Ft
650E4660	Type P6 Concrete Gutter	118	Ft
650E4700	Type P10 Concrete Gutter	336	Ft
650E6060	6" Concrete Valley Gutter	31	Ft
651E0040	4" Concrete Sidewalk	20,719	SqFt
651E0050	5" Concrete Sidewalk	13,704	SqFt
651E0080	8" Concrete Sidewalk	110	SqFt
651E0160	6" Reinforced Concrete Sidewalk	200	SqFt
651E0540	4" Colored Concrete Sidewalk	3,948	SqFt
651E0580	8" Colored Concrete Sidewalk	51	SqFt
651E7000	Type 1 Detectable Warnings	480	SqFt
670E1200	Type B Frame and Grate Assembly	44	Each
670E2200	Type C Frame and Grate	6	Each
670E3300	Type E Frame and Grate	1	Each
670E5202	Special Frame and Grate	1	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	1	Each
670E5400	Precast Drop Inlet Collar	45	Each
670E7000	Reset Drop Inlet Frame and Grate Assembly	1	Each
671E0550	Special Manhole	2	Each
671E6007	Type A7 Manhole Frame and Lid	1	Each
680E0060	6" Underdrain Pipe	5	Ft
700E0110	Class A Riprap	12.0	Ton
700E0210	Class B Riprap	211.0	Ton
831E0110	Type B Drainage Fabric	671	SqYd

INDEX OF SHEETS

A1	Estimate of Quantities for Sections B and C
A2	Estimate of Quantities for Sections D, E and F
A3	Estimate of Quantities for Sections L, M and S
A4 to A5	Environmental Commitments

SPECIFICATIONS

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

Traffic Control – Section C

Bid Item Number	Item	Quantity	Unit
009E3010	Public Information	Lump Sum	LS
110E1400	Remove Pavement Marking, 4" or Equivalent	3,300	Ft
628E1110	Movable F Shape Concrete Barrier, End Section	2	Each
632E3600	Temporary Signing	297.3	SqFt
634E0010	Flagging	10,500	Hour
634E0100	Traffic Control	11,222	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0130	Traffic Control Supervisor	70.0	Day
634E0330	Raised Pavement Markers	24,200	Ft
634E0380	Tubular Marker	800	Each
634E0420	Type C Advance Warning Arrow Panel	6	Each
634E0525	Linear Delineation System Panel, Barrier Mounted	152	Each
634E0640	Temporary Pavement Marking	171,400	Ft
634E0700	Traffic Control Movable Concrete Barrier	76	Each
634E0705	Remove and Reset Traffic Control Movable Concrete Barrier	72	Each
634E0750	Temporary Concrete Barrier End Protection	2	Each
634E0755	Remove and Reset Temporary Concrete Barrier End Protection	4	Each
634E0760	Temporary Concrete Barrier End Protection Module Set or Repair Kit	2	Each
634E0915	Short Term Temporary Traffic Signal System	1	Site
634E1215	Contractor Furnished Portable Changeable Message Sign	5	Each
634E1255	Contractor Furnished Speed Monitoring Radar Trailer	2	Each
634E2000	Longitudinal Pedestrian Barricade	650	Ft
634E2025	Longitudinal Pedestrian Channelizer	250	Ft
900E1080	Orange Plastic Safety Fence	2,500	Ft

SECTION B ESTIMATE OF QUANTITIES

SECTION B ESTIMATE OF QUANTITIES (CONTINUED)

REV 08-07-14 JRV

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	3.880	Mile
009E3250	Miscellaneous Staking	0.776	Mile
009E3280	Slope Staking	0.776	Mile
009E3290	Structure Staking	5	Each
009E3300	Three Man Survey Crew	100.0	Hour
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	1,641	Ft
110E0320	Remove Concrete Gutter	142	Ft
110E0400	Remove Drop Inlet	10	Each
110E0460	Remove Manhole	2	Each
110E0740	Remove 3 Cable Guardrail Anchor Assembly	4	Each
110E0745	Remove 3 Cable Guardrail Slip Base Anchor Assembly	4	Each
110E1010	Remove Asphalt Concrete Pavement	3,342.8	SqYd
110E1100	Remove Concrete Pavement	9,390.3	SqYd
110E1120	Remove Concrete Median Pavement	1,523.8	SqYd
110E1130	Remove Concrete Driveway Pavement	1,630.1	SqYd
110E1140	Remove Concrete Sidewalk	1,995.8	SqYd
110E1300	Remove Concrete Retaining Wall	472.3	Ft
110E4100	Salvage 3 Cable Guardrail	982	Ft
110E4290	Salvage Beam Guardrail	670.0	Ft
110E7700	Remove Drop Inlet Frame and Grate Assembly for Reset	1	Each
120E0010	Unclassified Excavation	24,892	CuYd
120E0600	Contractor Furnished Borrow	250	CuYd
120E0900	Contaminated Material Excavation	300	CuYd
120E2000	Undercutting	5,504	CuYd
120E6100	Water for Embankment	198.0	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
270E0020	Salvage and Stockpile Asphalt Mix Material	880.0	Ton
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	6,634.0	Ton
380E3540	8" PCC Approach Pavement	502.9	SqYd
380E4010	6" PCC Fillet Section	9.9	SqYd
380E4090	10" PCC Fillet Section	334.0	SqYd
420E0400	Structure Excavation, Miscellaneous	225	CuYd
421E0100	Pipe Culvert Undercut	100	CuYd
450E0123	18" RCP Class 3, Furnish	2,942	Ft
450E0130	18" RCP, Install	2,942	Ft
450E0143	24" RCP Class 3, Furnish	1,232	Ft
450E0150	24" RCP, Install	1,232	Ft
450E0162	30" RCP Class 2, Furnish	540	Ft
450E0170	30" RCP, Install	540	Ft
450E0184	36" RCP Class 4, Furnish	198	Ft
450E0190	36" RCP, Install	198	Ft
450E0202	48" RCP Class 2, Furnish	18	Ft
450E0210	48" RCP, Install	18	Ft
450E0222	60" RCP Class 2, Furnish	48	Ft
450E0230	60" RCP, Install	48	Ft
450E0234	66" RCP Class 4, Furnish	148	Ft
450E0240	66" RCP, Install	148	Ft
450E0408	18" RCP Bend, Furnish	1	Each
450E0409	18" RCP Bend, Install	1	Each
450E0424	30" RCP Bend, Furnish	1	Each
450E0425	30" RCP Bend, Install	1	Each
450E0448	66" RCP Bend, Furnish	1	Each
450E0449	66" RCP Bend, Install	1	Each
450E0700	RCP Tee, Furnish	4	Each
450E0701	RCP Tee, Install	4	Each
450E1000	RCP Wye, Furnish	1	Each
450E1001	RCP Wye, Install	1	Each
450E1400	RCP Reducer, Furnish	1	Each

Bid Item Number	Item	Quantity	Unit
450E1401	RCP Reducer, Install	1	Each
450E2304	18" RCP Safety End, Furnish	2	Each
450E2307	18" RCP Safety End, Install	2	Each
450E4767	24" CMP 12 Gauge, Furnish	82	Ft
450E4770	24" CMP, Install	82	Ft
450E5015	24" CMP Elbow, Furnish	2	Each
450E5016	24" CMP Elbow, Install	2	Each
450E5410	24" CMP Safety End, Furnish	1	Each
450E5411	24" CMP Safety End, Install	1	Each
450E5432	48" CMP Safety End, Furnish	1	Each
450E5435	48" CMP Safety End, Install	1	Each
450E8014	24" RCP to CMP Transition, Furnish	1	Each
450E8015	24" Pipe Transition, Install	1	Each
450E8034	48" RCP to CMP Transition, Furnish	1	Each
450E8035	48" Pipe Transition, Install	1	Each
450E8450	Storm Sewer Video Inspection	4,256	Ft
462E0100	Class M6 Concrete	68.7	CuYd
462E0200	Controlled Density Fill	85.0	CuYd
470E0025	Cable Handrail	391.0	Ft
480E0100	Reinforcing Steel	6,538	Lb
530E0310	Special Type C Concrete Retaining Wall	986	SqFt
600E0200	Type II Field Laboratory	1	Each
630E0110	Straight Double Class A Thrie Beam Guardrail with Wood Posts	75.0	Ft
630E1010	Straight Class A W Beam Guardrail with Wood Posts	312.5	Ft
630E2000	W Beam to Thrie Beam Guardrail Transition	4	Each
630E2020	W Beam Guardrail Tangent End Terminal	2	Each
650E0060	Type B66 Concrete Curb and Gutter	1,021	Ft
650E0100	Type B610 Concrete Curb and Gutter	4,555	Ft
650E1100	Type F610 Concrete Curb and Gutter	2,013	Ft
650E2000	Concrete Barrier Curb and Gutter	52	Ft
650E2100	Special Concrete Curb and Gutter	292	Ft
650E4400	Type D410 Concrete Curb and Gutter	661	Ft
650E4660	Type P6 Concrete Gutter	118	Ft
650E4700	Type P10 Concrete Gutter	336	Ft
650E6060	6" Concrete Valley Gutter	31	Ft
651E0040	4" Concrete Sidewalk	20,719	SqFt
651E0050	5" Concrete Sidewalk	13,704	SqFt
651E0080	8" Concrete Sidewalk	110	SqFt
651E0160	6" Reinforced Concrete Sidewalk	200	SqFt
651E0540	4" Colored Concrete Sidewalk	3,948	SqFt
651E0580	8" Colored Concrete Sidewalk	51	SqFt
651E7000	Type 1 Detectable Warnings	480	SqFt
670E1200	Type B Frame and Grate Assembly	44	Each
670E2200	Type C Frame and Grate	6	Each
670E3300	Type E Frame and Grate	1	Each
670E5202	Special Frame and Grate	1	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	1	Each
670E5400	Precast Drop Inlet Collar	45	Each
670E7000	Reset Drop Inlet Frame and Grate Assembly	1	Each
671E0550	Special Manhole	2	Each
671E6007	Type A7 Manhole Frame and Lid	1	Each
680E0060	6" Underdrain Pipe	5	Ft
700E0110	Class A Riprap	12.0	Ton
700E0210	Class B Riprap	211.0	Ton
831E0110	Type B Drainage Fabric	671	SqYd

GRADING OPERATIONS

Water for Embankment is estimated at the rate of 10 gallons of water per cubic yard of Embankment minus Waste. The estimated quantity of Water for Embankment is 198 MGal.

The estimated cubic yards of excavation and/or embankment required to construct outlet ditches, ditch blocks, and approaches are included in the earthwork balance notes on the profile sheets.

Special ditch grades and other sections of the roadway different than the typical section(s) shall be constructed to the limits shown on the cross sections. If significant changes to the cross sections are necessary during construction, the Engineer shall contact the Designer for the proposed change.

Generally, all shallow inlet and outlet ditches as noted on the plan sheets shall be cut with a 10-foot wide bottom with 5:1 backslopes. However, the Engineer may direct the Contractor to adjust the ditch width for proper alignment with the drainage structure.

A copy of the Geotechnical Report for this project may be obtained at the Rapid City Region office.



STORM SEWER VIDEO INSPECTION

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH0016(78)67	B7a	B103

REV 08-07-14 JRV

All newly installed pipe culverts and storm sewer pipe 24" in diameter and smaller, shall pass a video inspection. The video inspection shall consist of viewing the inside of all pipe culverts and storm sewer installed to determine proper alignment, grade, joining, etc.

Straight alignment shall be checked either by lamping or by laser beam. Lamping shall be conducted by viewing the pipe from inside a drop inlet or storm sewer manhole to determine proper alignment. It is the Contractor's responsibility to notify the Engineer that the pipe culverts and storm sewers have been inspected and shall provide the Engineer with a video recording of each length of pipe inspected, including documented location, in feet, of each run of pipe inspected by video. Video inspections shall be completed after all grading operations are complete and prior to surfacing. No surfacing, including gravel cushion will be allowed until the Engineer has received and viewed the video, presented findings to the Contractor, and directed corrective actions, if necessary.

Video inspection shall be completed unless specified otherwise.

All costs to video inspect the various pipe bid items shall be incidental to the contract unit price per foot of "Storm Sewer Video Inspection." If defective workmanship of material or construction is noted, the Contractor, at no expense to the State, shall correct the deficiency. The Contractor shall perform additional video inspections to review if the repairs were made properly and in accordance with the specifications. The expense of any additional video inspections will be borne entirely by the Contractor. The Contractor shall be responsible for all related costs, including concrete or asphalt resurfacing if the street has been surfaced. The Contractor shall be required to repair all deficiencies. The State may cause to take any actions necessary for any items not completed or repaired in a timely manner.

