



Department of Transportation

Rapid City Region Office

2300 Eglin Street

P.O. Box 1970

Rapid City, SD 57709-1970

Phone: 605/394-2244

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May 17, 2017

ADDENDUM NO. 1

RE: May 23, 2017 Rapid City Region Office Informal Letting

16A3-491, Pennington County, PCN i4ld

Curb & Gutter, Drop Inlets, Bank & Channel Protection Gabions and Minor

Slope Work on Hwy 16A

TO WHOM IT MAY CONCERN:

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

PROPOSAL:

- Please replace the DOT-123 with the attached DOT-123.

PLANS:

- Replace plans sheets 2 and 3 with attached plan sheets 2 and 3.

Sincerely,

John Rehorst
Region Design Engineer

**SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION
CONTRACT PROPOSAL**

DOT-123
(11/16)

CODE	PRE	PROJECT ROUTE	AGR	MAINT UNIT	CONTROL REFERENCE	AFE	FUNCTION	BEGIN MRM	END MRM
		016AE	491			i4ld	2290	0591	0594

CITY AND /OR COUNTY Pennington BUDGET SOURCE FY17 Cont. Maint.

REGION MATERIALS CERTIFICATION REQUIRED YES NO

CERTIFIED INSPECTORS/TESTERS REQUIRED YES NO

TO BE INSTALLED ON THE CM&P YES NO

TYPE, PURPOSE AND LOCATION OF WORK Curb &Gutter, Drop Inlets, Bank & Channel Protection Gabions, and Minor Slope Work on Hwy 16A near Keystone

ESTIMATE OF QUANTITIES AND COST

BID ITEM NUMBER	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
009E0010	Mobilization	Lump Sum	LS		
110E1700	Remove Silt Fence	100	Ft		
120E0010	Unclassified Excavation	165	CuYd		
120E0600	Contractor Furnished Borrow Excavation	600	CuYd		
230E0020	Contractor Furnished Topsoil	275	CuYd		
250E0010	Incidental Work	Lump Sum	LS		
260E1010	Base Course	2	Ton		
380E6110	Insert Steel Bar in PCC Pavement	450	Each		
450E4759	18" CMP Gauge, Furnish	72	Ft		
450E4760	18" CMP, Install	2	Ft		
450E5211	18" CMP Flared End, Furnish	4	Each		
450E5212	18" CMP Flared End, Install	4	Each		
462E0100	Class M6 Concrete	6.2	CuYd		
480E0100	Reinforcing Steel	629	Lb		
632E2510	Type 2 Object Marker Back to Back	4	Each		
634E0010	Flagging	50	Hour	\$24.19	\$1209.50
634E0110	Traffic Control Signs	201	SqFt		
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS		
634E0420	Type C Advance Warning Arrow Board	1	Each		
650E1089	Modified Type F69 Concrete Curb and Gutter	1200	Ft		
670E1200	Type B Frame and Grate Assembly	4	Each		
670E5200	Special Frame and Grate Assembly	1	Each		
720E1015	Bank and Channel Protection Gabion	36	CuYd		
730E0210	Type F Permanent Seed Mixture	13	Lb		
731E0100	Fertilizing	750	Lb		
732E0200	Fiber Mulching	0.5	Ton		
734E0604	High Flow Silt Fence	100	Ft		
734E0610	Mucking Silt Fence	10	CuYd		
734E0620	Repair Silt Fence	100	Ft		
834E0110	Type B Drainage Fabric	60	SqYd		
				TOTAL	

This document is for information only. Do not use for bidding purposes.

CONTRACTORS PROPOSAL STATEMENT

The undersigned does hereby agree to furnish the labor and/or material in the quantities, at the unit price, for the purpose and in the place all in accordance with attached provisions upon approval of this Proposal by the State Transportation Commission. This document becomes the contract when signed by the Contractor and a Department of Transportation Representative. The Contractor agrees to provide services in compliance with the Americans with Disabilities Act of 1990. The Contractor agrees to provide a certificate of insurance prior to commencing work, for liability coverage for the duration of the work as per the current edition of the SDDOT Standard Specifications for Roads and Bridges.

SUBSTANTAIL COMPLETION DATE n/a _____

PROPOSED START DATE _____

FIELD WORK COMPLETION DATE December 1, 2017 _____

SIGNATURE _____

SUBSCRIBED AND SWORN TO BEFORE ME THE _____

PRINTED NAME _____

DAY OF _____, 20 _____

COMPANY _____

STR ADDRESS _____

CITY, STATE, ZIP _____

FED. TAX ID NUMBER _____

NOTARY – My Commission Expires _____

RECOMMENDED FOR APPROVAL:

CONSTRUCTION/MAINTENANCE ENGR. DATE

REGION ENGINEER DATE

DIRECTOR OF OPERATIONS DATE

APPROVED FOR THE TRANSPORTATION COMMISSION

NAME _____ TITLE _____ DATE _____

APPROVED as per Federal Highway Stewardship Provisions this _____ day of _____, 20_____

PROJECT DEVELOPMENT ENGINEER

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	1	LS
110E1700	Remove Silt Fence	100	Ft
120E0010	Unclassified Excavation	165	CuYd
120E0600	Contractor Furnished Borrow Excavation	600	CuYd
230E0020	Contractor Furnished Topsoil	275	CuYd
250E0010	Incidental Work	1	LS
260E1010	Base Course	2.0	Ton
380E6110	Insert Steel Bar in PCC Pavement	450	Each
450E4759	18" CMP 16 Gauge, Furnish	72	Ft
450E4760	18" CMP, Install	72	Ft
450E5211	18" CMP Flared End, Furnish	4	Each
450E5212	18" CMP Flared End, Install	4	Each
462E0100	Class M6 Concrete	6.2	CuYd
480E0100	Reinforcing Steel	629	Lb
632E2510	Type 2 Object Marker Back to Back	4	Each
634E0010	Flagging	50.0	Hour
634E0110	Traffic Control Signs	201.0	SqFt
634E0120	Traffic Control, Miscellaneous	1	LS
634E0420	Type C Advance Warning Arrow Board	1	Each
650E1089	Modified Type F69 Concrete Curb and Gutter	1,200	Ft
670E1200	Type B Frame and Grate Assembly	4	Each
670E5200	Special Frame and Grate Assembly	1	Each
720E1015	Bank and Channel Protection Gabion	36.0	CuYd
730E0210	Type F Permanent Seed Mixture	13	Lb
731E0100	Fertilizing	750	Lb
732E0200	Fiber Mulching	0.5	Ton
734E0604	High Flow Silt Fence	100	Ft
734E0610	Mucking Silt Fence	10	CuYd
734E0620	Repair Silt Fence	100	Ft
831E0110	Type B Drainage Fabric	60	SqYd

SPECIFICATIONS

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

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 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.

UTILITIES

The Contractor shall contact the involved utility companies through South Dakota One Call 811 in State or (1-800-781-7474) prior to starting work. It shall be the responsibility of the Contractor to coordinate work with the utility owners to avoid damage to existing facilities.

Utilities are not planned to be affected on this project. If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25, the Contractor shall contact the Project Engineer to determine modifications that will be necessary to avoid utility impacts.

WORK DESCRIPTION

Work on this project consists of installing curb and gutter, drop inlets, bank and channel protection gabions, and minor slope work on US Highway 16A from approximate MRM 57.00+0.096 to 59.11+0.084 (Keystone to the Keystone Wye)

UNCLASSIFIED EXCAVATION

Unclassified Excavation is provided on the project for removing excess material adjacent to the concrete surfacing, so that new curb and gutter can be installed in accordance with the typical sections. This excess material shall be installed behind the new curb and gutter and shall be graded to the satisfaction of the Engineer. The estimate of quantities provides 165 cubic yards of Unclassified Excavation for performing this work.

Plans quantity shall be the basis of payment for the Unclassified Excavation quantity. If changes are made in the field during construction, measurements shall be taken and the quantity shall be adjusted accordingly.

CONTRACTOR FURNISHED BORROW EXCAVATION

Station	L/R	Contractor Furnished Borrow Excavation (CUYD)
19+25 – 22+00	L	137.5
67+50 – 76+75	R	462.5

DROP INLETS

The drop inlets shall be covered throughout construction operations as necessary with an Engineer approved cover to provide safe travel for motorists and to prevent materials from entering the storm sewer system. All costs involved with the coverings and removing debris from the drop inlets shall be incidental to the contract unit prices for the components of the drop inlets.

The plan shown quantities of the drop inlet components such as Class M6 Concrete, Reinforcing Steel, and Type B Frame and Grate Assembly will be the basis of payment for these items.

If additions or reductions to the number of drop inlets are ordered by the Engineer, payment for the components required to construct the drop inlets will be made at the contract unit prices for the components of the drop inlets.

Drop Inlets shall be installed at the following locations:

Station	H (ft)	Pipe Diam. (in)	Pipe Displacement Reduction (Cu Yd)	Class M6 Concrete (CuYd)	Reinforcing Steel (Lb)	Frame & Grate Assembly (Each)
21+85 L	6	18	0.032725	1.5473	157	1
22+00 L	6	18	0.032725	1.5473	157	1
76+15 R	6	18	0.032725	1.5473	157	1
76+33 R	6	18	0.032725	1.5473	157	1
Totals =				6.1891	629	4

CORRUGATED METAL PIPE

All corrugated metal pipes 36" and smaller shall have 2-2/3 X 1/2 corrugations unless otherwise noted in the plans.

Corrugated Metal Pipe shall be installed at the following locations:

Station	L/R	Length (ft)	Diameter (in)
21+85	L	18	18
22+00	L	18	18
76+15	R	18	18
76+33	R	18	18

BANK AND CHANNEL PROTECTION GABION

Bank and Channel Protection Gabions shall be placed at the following locations:

Station	L/R	Gabion (Cu.Yd.)	Type B Drainage Fabric (Sq.Yd.)
21+85	L	9	15
22+00	L	9	15
76+15	R	9	15
76+33	R	9	15

BASE COURSE

Base Course shall be used as subgrade material under each drop inlet base. Included in the plan quantity is 12" of Base Course under each inlet location. All costs including furnishing, placing, and compacting the material shall be incidental to the contract unit price per ton for Base Course. Compaction shall be as directed by the Engineer.

Plans quantity shall be the basis of payment for the Base Course quantity. If changes are made in the field during construction, measurements shall be taken and the quantity shall be adjusted accordingly.

INSERT STEEL BAR IN PCC PAVEMENT

The Contactor shall install the steel bars (No. 5 deformed epoxy bar) into drilled holes in the existing concrete pavement. An epoxy resin adhesive must be used to anchor the steel bar in the drilled holes.

The steel bars shall be cut to the specified length by sawing and shall be free from burring or other deformations. Shearing will not be permitted.

A rigid frame or mechanical device will be required to guide the drill to ensure proper horizontal and vertical alignment of the steel bars in the drilled holes.

The No. 5 bars (to be inserted) shall be placed a minimum of 24" from the transverse contraction joints and on 48" centers. The No. 5 bars shall be placed on 30" centers for the F68 Modified Curb and Gutter.

The Contractor shall not place concrete until the epoxy has set enough to prevent steel bar movement.

Cost for the epoxy resin adhesive, No. 5 deformed bars, drilling holes, installing the steel bars into the drilled holes and all other items shall be incidental to the contract unit price per each for Insert Steel Bar in PCC Pavement.

MODIFIED TYPE F69 CONCRETE CURB AND GUTTER

There will be no distinction between straight or curved curb & gutter for bidding purposes.

The Contractor should note the Size and Increased Quantity of concrete that will be required to construct the Modified Type F69 curb and gutter. Reference the detail.

Sealing the joints as required per the Standard Plate shall be incidental to the Contract Unit Price per foot for the "Modified Type F69 Concrete Curb & Gutter."

All costs for Modified Type F69 Concrete Curb and Gutter shall be incidental to the contract unit price per foot for FL68 Concrete Curb and Gutter.

Station		Station	L/R	Length
19+25	To	22+00	R	275
67+50	To	76+75	R	925

DROP INLET GRATES

Remove existing damaged drop inlet frame & grate and replace with new Type B grate at Station (10+75). All removed grates shall become the property of the Contractor. All costs associated with removing and replacing grates shall be incidental to the contract unit price per each for "Special Frame and Grate Assembly."

INCIDENTAL WORK

All work required to remove the existing frame & grate at Station 10+75 not specifically paid for under various bid items shall be covered under incidental work. This work shall include but may not be limited to: sawing of the existing concrete to remove frame & grate.

TYPE 2 OBJECT MARKERS

All Type 2 Object Markers listed in these plans shall be used to mark pipe and box culverts throughout this project. All costs for materials, labor, and equipment necessary to furnish and install object markers shall be incidental to the contract unit price per each for Type 2 Object Marker Back to Back.

Only pipe and box culverts that fall within the 30-foot clear zone on this project shall be marked.

TRAFFIC CONTROL – GENERAL NOTES

Unless otherwise stated in these plans, no work will be allowed during hours of darkness.

Non-applicable traffic control devices shall be completely covered or removed during periods of inactivity. Periods of inactivity shall be defined as no work taking place for a period of more than 48 hours.

All materials and equipment shall be stored a minimum distance of 30' from the traveled way during nonworking hours.

The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.

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

All construction operations shall 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 shall be used, as determined by the Engineer.

Removing, relocating, covering, salvaging and resetting of permanent traffic control devices, including delineation shall be the responsibility of the Contractor. Any delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the State.

One lane of traffic shall be maintained each direction of travel throughout the project construction.

Work during non-daylight hours shall be subject to prior approval.

INVENTORY OF TRAFFIC CONTROL DEVICES

SIGN CODE	SIGN DESCRIPTION	CONVENTIONAL ROAD			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W3-4	BE PREPARED TO STOP	2	48" x 48"	16.0	32.0
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
W21-5	SHOULDER WORK	2	48" x 48"	16.0	32.0
W21-5a	RIGHT SHOULDER CLOSED	2	48" x 48"	16.0	32.0
W21-5b	RIGHT SHOULDER CLOSED AHEAD	2	48" x 48"	16.0	32.0
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS					201.0

ARROW BOARDS

ITEM DESCRIPTION	QUANTITY
Type C Advance Warning Arrow Board	1 Each

PERMANENT SEEDING

Type F Permanent Seed Mixture shall consist of the Following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Flintlock, Rodan, Rosana	7
Green Needlegrass	Lodorm	4
Sideoats Grama	Butte, Killdeer, Pierre, Trailway	3
Blue Grama	Bad River, Willis	2
Oats or Spring Wheat: April through May; Winter Wheat: August through November		10
Total:		26

MYCORRHIZAL INOCULUM

Mycorrhizal inoculum shall consist of mycorrhizal fungi spores and mycorrhizal fungi-infected root fragments in a solid carrier. The carrier may include organic materials, calcinated clay, or other materials consistent with application and good plant growth. The supplier shall provide certification of the fungal species claimed and the live propagule count. The inoculum shall include the following fungal species:

- Glomus intraradices* 25%
- Glomus aggregatu* 25%
- Glomus mosseae* 25%
- Glomus etunicatum* 25%

All seed shall be inoculated with a minimum of 100,000 live propagules of mycorrhizal fungi per acre. All costs of inoculating the seed shall be incidental to the contract unit price per pound for Type F Permanent Seed Mixture.