



# Department of Transportation

**Rapid City Region Office**

**2300 Eglin Street**

**P.O. Box 1970**

**Rapid City, SD 57709-1970**

**Phone: 605/394-2244**

**FAX: 605/394-1904**

November 3, 2015

## **ADDENDUM NO. 1**

RE: November 12, 2015 Rapid City Region Office Informal Letting  
P 0040(00)68, Custer County, PCN 05m5  
Traffic Diversion on Hwy 40

### **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:**

- The Gravel Surfacing bid item shall be changed to Base Course. Replace sheet 2, 3, and 4 with the attached sheets.

Sincerely,

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John Rehorst  
Region Design Engineer

**SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION  
CONTRACT PROPOSAL**

DOT-123  
(5/05)

CODE	PRE	PROJECT ROUTE	AGR	MAINT UNIT	CONTROL REFERENCE	AFE	FUNCTION	BEGIN MRM	END MRM
	P	0040	00		68	05m5			

CITY AND /OR COUNTY Custer BUDGET SOURCE FY16 Construction  
 FINALS ENGINEER REVIEW REQUIRED  YES  NO  
 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 Traffic Diversion on Hwy 40

PREQUALIFICATION WORK TYPE: 2 PROJECT DBE GOAL: none

**ESTIMATE OF QUANTITIES AND COST**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
009E0010	Mobilization	Lump Sum	LS		
120E0600	Contractor Furnished Borrow Excavation	1380.	CuYd		
230E0100	Remove and Replace Topsoil	Lump Sum	LS		
260E1010	Base Course	248.0	Ton		
632E1320	2.0" x 2.0" Perforated Tube Post	240.0	Ft		
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	209.2	SqFt		
632E4000	Type 3 Double Sided Barricade	48.0	Ft		
634E0010	Flagging	100.0	Hour	\$23.55	\$2355.00
634E0110	Traffic Control Signs	212	SqFt		
634E0120	Traffic Control Miscellaneous	Lump Sum	LS		
634E0525	Linear Delineation System Panel Barrier Mounted	67	Each		
634E0700	Traffic Control Movable Concrete Barrier	67	Each		
732E0200	Fiber Mulching	0.7	Ton		
734E0154	12" Diameter Erosion Control Wattle	318	Ft		
734E0325	Surface Roughening	0.3	Acre		
				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.

PROPOSED START DATE Nov 30, 2015  
SUBSTANTIAL COMPLETION REQUIREMENT Dec. 23, 2015  
FIELD WORK COMPLETION REQUIREMENT June 1, 2016

SUBSCRIBED AND SWORN TO BEFORE ME THE  
\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SIGNATURE \_\_\_\_\_  
COMPANY \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
\_\_\_\_\_

NOTARY – My Commission Expires \_\_\_\_\_ FED. TAX ID NUMBER \_\_\_\_\_

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

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**ESTIMATE OF QUANTITIES**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
120E0600	Contractor Furnished Borrow Excavation	1,380	CuYd
230E0100	Remove and Replace Topsoil	Lump Sum	LS
260E1010	Base Course	248.0	Ton
632E1320	2.0"x2.0" Perforated Tube Post	240.0	Ft
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	209.2	SqFt
632E4000	Type 3 Double Sided Barricade	48.0	Ft
634E0010	Flagging	100.0	Hour
634E0110	Traffic Control Signs	212	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0525	Linear Delineation System Panel, Barrier Mounted	67	Each
634E0700	Traffic Control Movable Concrete Barrier	67	Each
732E0200	Fiber Mulching	0.7	Ton
734E0154	12" Diameter Erosion Control Wattle	318	Ft
734E0325	Surface Roughening	0.3	Acre

**SPECIFICATIONS**

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

**CONTRACT TIME**

The Contractor shall complete the Contractor Furnished Borrow Excavation and Base Course by the substantial completion requirement of December 23, 2015. The remaining work items shall be completed by the field work completion requirement.

**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 B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES**

**COMMITMENT B2: WHOOPING CRANE**

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

**Action Taken/Required:**

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pit, or staging site associated with the project, cease construction activities in the affected area until the Whooping Crane departs and contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

**COMMITMENT B4: BALD EAGLE**

Bald eagles are known to occur in this area.

**Action Taken/Required:**

If a nest is observed within one mile of the project site, notify the Project Engineer immediately so that he/she can consult with the Environmental Office for an appropriate course of action.

**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.

**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 department designated sources and designated option material sources, stockpile sites, storage areas, and waste 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: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

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 Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas 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.

**SEQUENCE OF OPERATIONS**

Variations from this sequence shall be submitted to the Engineer for approval.

1. Place traffic control.
2. Construct embankment and place surfacing.
3. Complete Surface Roughening.
4. Place erosion control.
5. Remove traffic control.

**UTILITIES**

The Contractor shall be responsible for locating and protecting any utility that would conflict with any work. 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.

Any damage done to a utility will be the Contractor's responsibility to repair.

**CONTRACTOR FURNISHED BORROW EXCAVATION**

The Contractor shall provide a suitable site for Contractor furnished borrow excavation material. The Contractor is responsible for obtaining all required permits and clearances for the borrow site. The borrow material shall be approved by the Engineer. The plans quantity for Contractor Furnished Borrow Excavation as shown in the Estimate of Quantities will be the basis of payment for this item.

Restoration of the Contractor furnished borrow excavation site shall be the responsibility of the Contractor.

Water for Embankment is estimated at the rate of 20 gallons of water per cubic yard of Embankment. All costs for Water for Embankment shall be incidental to the contract unit price per cubic yard for Contractor Furnished Borrow Excavation.

**Table of Contractor Furnished Borrow Excavation**

Station to Station		Contractor Furnished Borrow Excavation (CuYd)
0+00	10+72	1380

**HORIZONTAL ALIGNMENT DATA**

Station	Station	TL	Angle	North	East
PT	0+00.00			504303.74	1291664.88
		TL= 99.96	S 16°37'39" E		
PC	0+99.96			504207.96	1291693.49
PI	1+38.47	R = 1040.00	Delta = 04°14'36" L	504171.06	1291704.51
PT	1+76.94			504135.09	1291718.22
		TL= 38.50	S 16°37'39" E		
PC	3+58.10			503965.81	1291782.75
PI	4+18.43	R = 1040.00	Delta = 06°38'25" R	503909.43	1291804.25
PT	4+78.63			503850.95	1291819.07
		TL= 60.33	S 30°52'05" E		
PC	5+78.92			503753.74	1291843.72
PI	6+38.53	R = 1040.00	Delta = 06°33'40" R	503695.95	1291858.37
PT	6+98.01			503636.88	1291866.33
		TL= 59.61	S 14°13'40" E		
PC	8+64.19			503472.18	1291888.5
PI	9+18.40	R = 1040.00	Delta = 05°58'03" L	503418.46	1291895.73
PT	9+72.51			503365.78	1291908.51
		TL= 54.21	S 07°40'00" E		

**SURFACING THICKNESS DIMENSIONS**

Plans tonnage will be applied even though the thickness may vary from that shown in the plans. At those locations where material must be placed to achieve a required elevation, plans tonnages may be varied to achieve the required elevation.

**BASE COURSE**

The Base Course shall be placed on the project as closely following completion of grading the roadbed proper as feasible.

Water for Granular Material is estimated at the rate of 20 gallons of water per cubic yard of Base Course. All costs for Water for Granular Material shall be incidental to the contract unit price per ton for Base Course.



Station to Station	Base Course (Ton)
3+45 to 7+38	248

**REMOVE AND REPLACE TOPSOIL**

Topsoil in the ditch area shall be salvaged and stockpiled prior to constructing the traffic diversion. Limits of this work, depth of salvage, and stockpile location will be directed by the Engineer. Following completion of construction, topsoil shall be spread evenly over the disturbed areas.

The estimated amount of topsoil to be removed and replaced is 192 CuYd.

All cost associated with removing and replacing the topsoil along areas to be resurfaced shall be incidental to the contract lump sum price for Remove and Replace Topsoil.

**TRAFFIC CONTROL – GENERAL NOTES**

1. Requests to deviate from the sequence of operations shall be submitted in writing to the Engineer for review. Approval of an alternate 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. An alternate sequence shall be submitted for review a minimum of one week prior to potential implementation.
2. Unless otherwise stated in these plans, no work will be allowed during hours of darkness.
3. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage of the vegetation, surfacing, embankment, delineators, and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.
4. Existing guide, route, informational logo, regulatory, warning signs and delineation shall be temporarily reset and maintained during construction as directed by the Engineer. Removing, relocating, salvaging and resetting of the above items shall be the responsibility of the Contractor.
5. Periods of inactivity shall be defined as no work taking place for a period of more than 48 hours.
6. Construction signing mounted on portable supports shall not be used for a duration of more than 3 days, unless approved by the Engineer. Construction signing that remains in the same location for more than 3 days shall be mounted on fixed location, ground mounted, breakaway supports.
7. Any delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the State.

8. All materials and equipment shall be stored a minimum distance of 30' from the traveled way during nonworking hours.
9. The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.
10. 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.
11. All construction operations shall be conducted in the general direction of traffic movement.
12. 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.
13. Temporary Flexible Vertical Markers (Tabs) shall be used for lane closure tapers or lane shift tapers and shall be installed at 5' spacing. Tabs used for tapers and shifts will not be measured for payment. All costs associated to furnish, install, maintain (including replacement as required by the Engineer at no added cost to the Department), and remove all markers will be incidental to the contract lump sum price for Traffic Control, Miscellaneous.

**INVENTORY OF TRAFFIC CONTROL DEVICES**

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W8-7	LOOSE GRAVEL	2	48" x 48"	16	32
W20-1	ROAD WORK AHEAD	4	48" x 48"	16	64
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16	32
W20-7	FLAGGER (symbol)	2	48" x 48"	16	32
W21-5	SHOULDER WORK	2	48" x 48"	16	32
G20-2	END ROAD WORK	4	36" x 18"	5	20
<b>CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS</b>					<b>212</b>
<b>SQFT</b>					

**CONCRETE BARRIERS AND TRAFFIC DIVERSION SIGNS INSTALLED "AS NEEDED"**

All items pertaining to the placement of Traffic Control Movable Concrete Barrier, traffic diversion signing, and Type 3 Barricades are being bid "as needed". If the slide moves to the point that makes the highway impassable, concrete barriers and traffic diversion signs shall be installed.

If the Traffic Control Movable Concrete Barriers, associated signing, and barricades for the traffic diversion are required during this project, or prior to the subsequent slide repair project, the contractor shall have a 48 hour time frame in which to install the barriers, signs, and place traffic on the diversion. Signs for the traffic diversion shall be installed in accordance with Standard Plate 634.26 and as directed by the Engineer.

If the signs for the traffic diversion are not installed the State will purchase the signs.

**TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS**

Concrete barriers will be provided by the State and are available for pickup from the DOT South Maintenance Yard located south of Rapid City adjacent to Highway 79. Barriers to be adjusted or moved shall be disconnected from adjacent barriers to minimize damage to connecting pins. Pins damaged by the Contractor shall be replaced at no cost to the Department. All costs associated with picking up from the South Yard, transporting, and installing shall be incidental to the contract unit price per each for Traffic Control Movable Concrete Barrier.

If the Traffic Control Movable Concrete Barriers are installed, the barriers shall be left in-place and utilized for the subsequent slide repair project.

Concrete barrier sections shall be placed as depicted in the plans. The barriers shall be pinned and bolted together as directed by the Engineer.

**BARRIER MOUNTED LINEAR DELINEATION SYSTEM PANELS**

A linear delineation system panel shall be attached to each side of the barrier section. One panel shall be white and the other panel shall be yellow. The color shall be the same as the nearest pavement marking, white along outside edgelines or yellow for the left side on one way traffic sections. The linear delineation system shall 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 shall be sheeted with super high or very high intensity sheeting. The panels shall be installed at the center of the barrier when measured along the length, with the top of the panel 4 inches below the top of the barrier. Installation shall be as per the manufacturer's recommendation using stainless steel inserts and bolts. This will allow for easy removal for replacement of damaged panels or to replace with an alternate color. The Contractor shall 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 shall be furnished and replaced by the Contractor. All costs associated with furnishing, and installing the linear delineation system shall be included in the contract unit price per each for Linear Delineation System Panel, Barrier Mounted.

All linear delineation system panels shall remain attached to the barrier sections and shall become the property of the State of South Dakota upon completion of the project.

The Contractor shall 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 required.