



## **Department of Transportation**

**Rapid City Region Office**

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**Rapid City, SD 57709-1970**

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February 11, 2010

### **ADDENDUM NO. 1**

RE: February 24, 2010 Rapid City Region Office Informal Letting – 090E-451, PCN  
i1pp – Meade County – LED Open/Closed sign for Tilford Weigh Station

### **TO WHOM IT MAY CONCERN:**

The following addendum to the plans shall be inserted and made a part of your proposal for the above referenced project. The reason for the addendum was to move the furnish and install note for the LED sign from the "Incidental Work" section to the "Variable Message Sign System" section of the plans.

### **PROPOSAL:**

- No change.

### **PLANS:**

- Replace sheet 2 with the attachment with revised date: 2/10/2010 JPR

Sincerely,

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John Rehorst  
Rapid City Region Design Engineer

## ESTIMATE OF QUANTITIES

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
250E0010	Incidental Work	Lump Sum	LS
632E4500	Variable Message Sign System	1	Each
634E0100	Traffic Control	136	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS

## SPECIFICATIONS

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

## SUPPLYING AS BUILT PLANS

The Contractor shall supply as built plans to the Engineer and the Rapid City Region Traffic Engineer. The as built plans shall include the details necessary for the modifications to existing wiring and conduit for the installation of a LED OPEN/CLOSED sign, operated with a power switch installed in the Tilford weigh station building. The as built plans shall be prepared and signed by an Electrical Professional Engineer registered in the state of South Dakota.

## PRE-BID INSPECTION

The Contractor is encouraged to inspect the project site prior to preparing a bid. A pre-bid inspection will be held at the Tilford weigh station building on February 10, 2010 at 10:00 a.m. Mountain Time.

## INCIDENTAL WORK

- Remove existing OPEN/CLOSED Sign and any necessary hardware, wiring, etc. The existing sign and any unneeded parts shall be disposed of by the Contractor.
- The LED OPEN/CLOSED sign shall be controlled with a power switch installed in the weigh station building. The Contractor shall determine the best route for the switch wire cable. All wiring shall be installed in conduit.
- The Contractor shall furnish and install all necessary wiring, additional conduit and additional junction boxes for the power switch installation. All work associated with the power switch to control the OPEN/CLOSED sign shall be in compliance with the applicable specifications of Sec. 635 of the Standard Specifications for Roads and Bridges.
- The Contractor shall remove the splice at the circuit breaker and furnish and install an appropriately sized circuit breaker, so the existing #2 conductor can be installed directly into the circuit breaker.
- The LED OPEN/CLOSED sign shall be earth grounded in accordance with the National Electrical Code.

## VARIABLE MESSAGE "OPEN/CLOSED" SIGN SYSTEM

Furnish and install a new LED OPEN/CLOSED Sign on the existing sign supports located at MRM 38.25 (Sta. 283+60). New mounting hardware shall be furnished and installed by the Contractor. The mounting hardware shall be corrosion resistant and meet the minimum requirements set forth by the sign manufacturer.

The sign shall meet the minimum requirements of the MUTCD, 2009 Edition, Changeable Message Signs Section 2L.

The sign system shall not require any moving parts to display images and the message shall be controlled with a power switch installed in the weigh station building.

The sign system shall use 30° LED technology.

The characters shall be upper-case letters 18" tall and white in color.

The sign shall only display "OPEN" or "CLOSED".

The sign shall be connected to the existing 120 VAC power.

The sign shall be capable of operating in ambient temperatures between -20 degrees F to 130 degrees F.

A photocell auto-dimming device shall be installed to automatically adjust the character brightness dependent on outside light conditions.

A sunshade visor shall be installed along the top of the sign.

The sign shall be obtained from one of the following companies:

- Transportation Technologies, Inc.  
4395 Iroquois Ave.  
Erie, Pennsylvania  
Toll Free: (888) 811-7010  
Facsimile: (888) 836-8401  
[sales@transportation-tech.com](mailto:sales@transportation-tech.com)  
[www.transporation-tech.com](http://www.transporation-tech.com)
- International Road Dynamics Inc.  
702-43<sup>rd</sup> Street East  
Saskatoon, Sk.  
Canada S7K 3T9  
Phone: (306) 653-6627  
Fax: (306) 242-5599  
[www.irdinc.com](http://www.irdinc.com)  
[info@irdinc.com](mailto:info@irdinc.com)
- Data Display USA  
5004 Veterans Memorial Highway  
Holbrook, NY 11741  
Phone: (631) 218-2130 ext.26  
Fax: (631) 218-2140  
[www.datadisplayusa.com](http://www.datadisplayusa.com)

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	090E-451	2	7

Revised 2/10/2010 JPR

## VARIABLE MESSAGE "OPEN/CLOSED" SIGN SYSTEM (CONTINUED)

The sign shall be visible from ½ mile during night and day conditions. The message on the sign shall be legible from a minimum distance of 600 feet for nighttime conditions and 800 feet for normal daylight conditions.

The display system shall be housed in a metal corrosion resistant weatherproof enclosure with a polycarbonate UV protected front face that can withstand 80 mile per hour winds.

The sign shall be compliant with current NEMA and UL Standards.

## MANUALS

A manual for the LED OPEN/CLOSED sign shall be supplied to the Rapid City Region Traffic Engineer and Sergeant Scott Brown. The manual shall include operation, service and repair information as well as an illustrated parts list. Manuals shall be delivered with the sign.

## MAINTENANCE OF TRAFFIC

Traffic control shall at all times be maintained in accordance with applicable MUTCD Standards, Section 634 of the Standard Specifications and these plans.

The Contractor shall provide documentation that all breakaway sign supports comply with FHWA 350 crash-worthy requirements. The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.

Storage of vehicles, materials, and equipment shall be not closer than 30' from the edge of the driving lane. Contractor's employees should mobilize at a location off the right-of-way and arrive at the work sites in a minimum number of vehicles necessary to perform the work. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to 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.

All work shall be conducted so that there is no disruption to the weigh station operations. The Contractor shall contact Sergeant Scott Brown, (605) 347-2671 and (605) 391-4990 at least 2 weeks prior to starting the work to inform him of the upcoming work activities.

## TABLE OF TRAFFIC CONTROL

SIGN CODE	SIGN SIZE	DESCRIPTION	NUMBER REQUIRED	UNITS PER SIGN	UNITS
W20-1	48" x 48"	ROAD WORK AHEAD	2	34	68
W21-5	48" x 48"	SHOULDER WORK	2	34	68
<b>TOTAL UNITS</b>					<b>136</b>