



PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

May 3, 2016

WBS No: 33879.2.76
County: Mecklenburg
Description: Installation of a Weigh in Motion System, Truck Bypass System, Automatic License Plate Reader & Lane Control at the I-85 Southbound Weigh Station.

Addendum No. 1
May 04, 2016 Letting

To: Prospective Bidders

There has been a revision to the requirements for the Dynamic Message Sign. The revised Special Provision is attached with the revisions highlighted. Due to this revision the May 4, 2016 bid letting will be extended. All bids will be received and opened on **May 11, 2016 at 10:00 A.M.**

Please submit your bid using the revised proposal which can be downloaded at the following link: https://connect.ncdot.gov/letting/Pages/Letting-Details.aspx?let_type=10&let_date=2016-05-11

If you plan on submitting an electronic bid package please delete the EBS file you previously downloaded for the May 4, 2016 letting and download the new EBS file listed for the May 11, 2016 letting. The new EBS file can be downloaded at the link above.

If you have any questions, please contact me at (704) 983-4400.

Sincerely,

DocuSigned by:

A handwritten signature in black ink that reads 'Terry W. Burleson'.

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Terry Burleson

Proposals Engineer

cc: Kellie Crump, Project Manager
Sean Epperson, PE, Division Traffic Engineer
File



18. DYNAMIC MESSAGE SIGNS

18.1. Description

Furnish and install two (2) 26.4mm DMS that are 2'-7" H x 13'-3" L at the locations shown on the plans.

18.2. Material

Furnish DMSs that are UL-listed and have a minimum character height of 10 inches and a maximum character height of 15 inches. The DMS must meet the following requirements:

- Full color-single faced display
- Two lines
- Up to a minimum of 16 characters per line
- Includes Control Software
- Operating Temperature of -40°F to 120°F
- Cabling

18.3. Construction Methods

Install the DMS at the locations on the plans with a minimum height of 7 feet from the bottom of the DMS to the highest point of the travel lane. It is the contractor's responsibility to verify the DMS S-dimensions and determine the post lengths.

Provide electrical equipment described in this specification that conforms to the standards of NEMA, UL, or Electronic Industries Association (EIA), wherever applicable. Provide connections between controllers and electric utilities that conform to NEC standards. Express wire sizes according to the American Wire Gauge (AWG).

Provide stainless steel screws, nuts, and locking washers in all external locations. Do not use self-tapping screws unless specifically approved by the Engineer. Use parts made of corrosion-resistant materials, such as plastic, stainless steel, brass, or aluminum. Use construction materials that resist fungus growth and moisture deterioration. Separate dissimilar metals by an inert dielectric material.

Inductive loops installed in the roadway at the DMS locations trigger the DMS system to turn on and off the sign in relation to the commercial vehicles' location in route to the weigh station.

The DMS message will notify the commercial vehicle to "Bypass" (displayed in green text) or "Exit To" (displayed in red text) the weigh station based on the screening criteria.

Loop 3 activates DMS 1. Loop 4 activates DMS 2 and turns off DMS 1. Loop 5 turns off DMS 2.

Install the DMS according to the manufacturer's recommendations using galvanized steel poles and hardware in concrete foundations.

18.4. MEASUREMENT AND PAYMENT

DMS will be measured and paid as the actual number of DMS furnished, installed, and accepted.

Each DMS consists of a LED Dynamic Message Sign, communications equipment, strapping hardware, controller, UPS, conduit, fittings, couplings, sweeps, conduit bodies, wire, feeder conductors and communications cable between the controller cabinet and the DMS enclosure, DMS operator control panel in the scale house, connectors, circuit protection equipment, photo-electric sensors, tools, materials, all related testing, cost of labor, cost of transportation, incidentals, and all other equipment necessary to furnish and install the DMS system.

Foundation and sign supports are paid for under the Signing Plan.

Payment will be made under:

Pay Item	Pay Unit
DMS.....	Each