



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

March 12, 2002

Addendum No. 2

RE: State Project: 8.2250108
F. A. Project: MA-STPNHS-5855 (2)
New Hanover County (U-92B)
Smith Creek Parkway From Proposed
US-117 Connector to East of 23rd Street.

March 19, 2002 Letting

To Whom It May Concern:

Reference is made to the proposal form recently furnished to you on the above referenced project.

The following revisions have been made to the proposal form:

On page no. 63, paragraph (B) of the "Overhead Sign Assemblies" project special provision has been revised. Please void page no. 63 in your proposal and staple the revised page no. 63 thereto.

Page nos. 73, 76, 107, 126, 141 and 164 in the "Dynamic Message Sign System" project special provisions have been revised. Please void page nos. 73, 76, 107, 126, 141 and 164 in your proposal and staple the revised page nos. 73, 76, 107, 126, 141 and 164 thereto.

Sincerely,

A handwritten signature in black ink, appearing to read "R. A. Garris".

R. A. Garris, P.E.
Contract Officer

RAG/jag/pa
(Attachments)

cc: Mr. J. D. Goins, P.E.
Mr. S. D. DeWitt, P.E.
Mr. H. A. Pope, P.E (2)
Ms. D. M. Barbour, P.E
Mr. J. A. Bennett, P.E
Mr. J. V. Barbour, P.E
Mr. R. E. Davenport, Jr., P.E
Ms. Kim Canady
Ms. Yang-Ju-Lin
Project File (2)

Revised 3-12-02

63.



U-0092B
03/11/02

OVERHEAD SIGN ASSEMBLIES

Design, fabricate, furnish and erect various types of overhead sign assemblies with maintenance walkways, when specified in the plans and attach Type A and Type B signs to the structure in accordance with the requirements of the plans.

Fabricate supporting structures from tubular members of either aluminum or steel. Only one type of material may be used throughout the project.

Among the types of overhead sign assemblies included in this specification are: span structures, cantilever structures, and sign structures attached to bridges.

Design overhead sign assemblies to including footings and submit shop drawings for approval.

The provisions of Section 900 and Section 901 will be applicable to all work covered by this provision.

CONSTRUCTION METHODS

(A) General

Fabricate overhead sign assemblies in accordance with the details shown in the approved shop drawings and the requirements of these specifications.

Fabricate sign panels for overhead sign assemblies in accordance with the requirements for type A and type B signs, as indicated in the plans, unless otherwise approved by the Engineer.

No welding, cutting, or drilling in any manner will be permitted in the field, unless approved by the Engineer.

Drill bolt holes and slot to finished size or they may be punched to finished size, provided the diameter of the punched holes is at least twice the thickness of the metal being punched. Flame cutting of bolt holes and slots will not be permitted.

Use two coats of a zinc-rich paint to touch minor scars on all galvanized materials.

(B) Location and Field Verification

The support lengths and dimensions for the overhead sign assemblies shown in the original plans are estimated for project bid purposes.

The Engineer, unless Contractor is required to complete all project survey in accordance with Section 801, will establish the proper offset, longitudinal location, footing elevation and S dimension for each overhead sign assembly. The Engineer will furnish field-verified S dimensions and slope verification at the supports to the Signing Section for a revision of the Structure Line drawings. If Contractor Surveying is required on project in accordance with Section 801, Contractor completes field verification of s-drops and slopes and submits to Engineer. The Engineer is responsible to confirm that these verifications are completed accurately and in correct format and submits to the Signing Section for a revision to the structure line drawings.

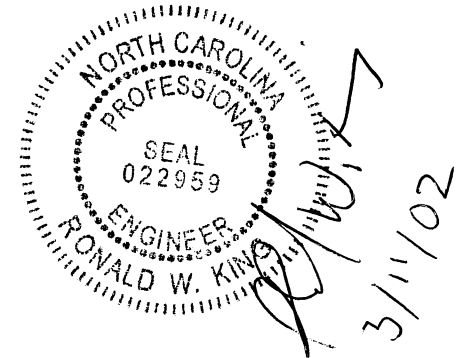
Prepare shop drawings for overhead sign assembly when the revised dimensions and slope verifications have been determined and the appropriate plan revision is completed.

**DYNAMIC MESSAGE SIGN SYSTEM
PROJECT SPECIAL PROVISION**

CHARACTER MATRIX LED DISPLAY

SECTION 1

GENERAL REQUIREMENTS



1.0 DESCRIPTION

Perform the work covered by this special provision consists of the complete manufacturing, furnishing, installation, and testing of an operating Light Emitting Diode (LED) Dynamic Message Sign (DMS) system. This special provision is in the following format:

- Section 1 - General Requirements
- Section 2 - LED Dynamic Message Sign System
- Section 3 - Testing Requirements
- Section 4 - System's Computers and Control Software
- Section 5 - Overhead Dynamic Message Sign Assembly
- Section 6 - Direct Tension Indicators
- Section 7 - DMS System Development and Installation process
- Section 8 - Summary of Submittals

Perform the work to meet the requirements stated in this document and specified in the project plans. Furnish all materials necessary to complete the work unless otherwise provided for in the plans. Furnish items that are new, unused, corrosion-resistant, current production models.

In order to be considered for award of the contract to accomplish the work as defined by this special provision, the successful bidder or his designated electrical sub-contractor must:

1. Possess a valid North Carolina Electrical Contractor's License as prescribed in Article 4 of Chapter 87 of the General Statutes.
2. Have a license that was issued on or before the date of the scheduled bid opening. This license must be of a class to accomplish the total dollar value of the work.
3. The DMS manufacturer must have a minimum of three (3) years experience in outdoor traffic control-type Dynamic Message Sign systems of the type and size described in this special provision.
4. Provide at least three references from customers who have purchased and installed permanent outdoor traffic sign systems of forty five 457 mm (18") or larger characters that use LED technology. Only provide references from outdoor traffic systems that have been in full operation at least three (3) calendar

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Payment will be made under:

Dynamic Message Sign System "DMS-1"	Lump Sum
Dynamic Message Sign System "DMS-2"	Lump Sum
Dynamic Message Sign Maintenance Training	Lump Sum

5.0 BASIS OF PAYMENT

The DMS Systems Testing Requirements, measured as provided in 4.0 above, will be paid for at the contract lump sum price for the Design Approval Tests described as the "Dynamic Message Sign System Design Approval Test", at the contract lump sum price for the Operational Factory Tests described as the "Dynamic Message Sign System Operational Factory Tests", and at the contract lump sum price for the Operational Field Tests described as the "Dynamic Message Sign Operational Field Tests."

Payment will be made under:

Dynamic Message Sign System Design Approval Tests	Lump Sum
Dynamic Message Sign System Operational Factory Tests	Lump Sum
Dynamic Message Sign System Operational Field Tests	Lump Sum

shipping, documentation, testing, incidentals, and any other equipment necessary to furnish and install the Server computer described above.

The system's Client computer consists of the computers, dial-up communication equipment, video screen, interconnect cabling, cost of labor, cost of shipping, testing, documentation, incidentals, and any other equipment necessary to furnish and install the Client computer described above.

The system's Laptop computer consists of the computer, dial-up communication equipment, interconnect cabling, cost of labor, cost of shipping, documentation, testing, incidentals, and any other equipment necessary to furnish and install the Laptop computer described above.

The system's Control Software consists of the Server and Client packages, cost of labor and development, cost of installation, training, documentation, testing, and incidentals to furnish and install the software packages described above.

6.0 Basis of Payment

The system's computers (Server, Client, and Laptop) and Control Software packages (Server and Client) measured as provided in 5.0 above, will be paid for at the contract unit price for the " System's Sever ", " System's Client ", " System's Laptop ", and "Control Software."

Payment will be made under:

DMS System Server Computer	Each
DMS System Client Computer	Each
DMS System Laptop Computer	Each
DMS System Control Software	Each

Destination

The Bench test unit shall be pre-configured to the system requirement. The Contractor shall submit a list of the additional components for approval by the Engineer.

The DMS Bench Test Unit, all associated manuals, equipment, and repair documentation listed above shall be delivered to:

North Carolina Department of Transportation
Traffic Electronics Center
2580 Trenton Road
Raleigh, NC 27607
ATTN: Mr. Kenneth Morge
Phone #: (919) 233-1521

Basis of Payment:

The Unit and documentation as described above shall be paid for under the DMS Bench Test Unit.

Dynamic Message Sign Bench Test Unit

Lump Sum