



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

January 10, 2006

Addendum No. 1

RE: Contract ID: C201534

WBS# 8CR.10761.5, Etc.

Randolph County

Various Sections of US-421 North, US-220 North
US-220 Business, NC-134, NC-22, NC-705 AND 30
Sections of Secondary Roads.

January 17, 2006 Letting

To Whom It May Concern:

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

The following revisions have been made to the proposal.

On Page No. 54, the project special provision entitled "Adjustment of Valve Boxes, Manholes and Meter Boxes" has been added. Please void Page No. 54 in your proposal and staple the revised Page No. 54 thereto.

On Page Nos. 71 and 72 the project special provision entitled "Large Beads In Paint Pavement Marking" has been revised. Please void Page Nos. 71 and 72 in your proposal and staple the revised Page Nos. 71 and 72 thereto.

Sincerely,

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

R. A. Garris, PE
Contract Officer

RAG/jag/pa

cc: Mr. W. S. Varnedoe, PE
Mr. S. D. DeWitt, PE
Mr. E. C. Powell, PE
Mr. T. Johnson, PE
Ms. D. M. Barbour, PE
Mr. Art McMillan, PE
Mr. Victor Barbour, PE

Mr. Mark Staley (2)
Mr. Robert Memory
Mr. R. E. Davenport Jr., PE
Ms. Marsha Byrd
Ms. Taylor Mishoe
Project File (2)

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
DESIGN SERVICES UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-250-4128
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WEBSITE: WWW.DOH.DOT.STATE.NC.US

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B2
1020 BIRCH RIDGE DRIVE
RALEIGH NC

REMOVAL OF EXISTING PAVEMENT MARKERS:

7-1-95

The Contractor's attention is directed to the fact that there are pavement markers on this project.

Remove and dispose of these markers prior to the paving operation.

No direct payment will be made for this work, as it will be incidental to the paving operation and payment at the contract unit price for the various asphalt items in the contract will be full compensation for such work.

RR118

PAVEMENT MARKING GENERAL REQUIREMENTS:

07-16-02c

Revise the 2002 Standard Specifications as follows:

Page 12-10, Subarticle 1205-3(J)

Delete the 1st sentence of the 1st paragraph and insert the following:

Have at least one member of every pavement marking crew working on a project certified through the NCDOT Pavement Marking Technician Certification Process. For more information contact the Traffic Control, Marking and Delineation Section of the North Carolina Department of Transportation at 919-250-4151 or <http://www.doh.dot.state.nc.us/construction/wztc/>

RR119

ADJUSTMENT OF VALVE BOXES, MANHOLES, AND METER BOXES:

Valve boxes, manholes, and meter boxes shall be adjusted in accordance with Section 858 of the Standard Specifications. This item consists of raising or lowering existing manholes and valve boxes to match the finished surface grade.

Adjustment to manholes, meter boxes, land valve boxes on this project shall be made by the use of an approved Rapid Set Grout, Mortar, or Concrete that will take full set and become load bearing within sixty minutes of placement. A list of approved materials will be furnished to the Contractor by the Resident Engineer.

The Contractor shall replace worn manhole rings and covers, worn meter box frames and covers, and worn valve box frames and covers, as directed by the Engineer, with a new ring/frame and cover assembly. These assemblies will be furnished at no cost to the Contractor by the Department or utility owner.

The Contractor shall construct a temporary ramp of bituminous plant mix around all structures that have been adjusted, unless otherwise directed by the Engineer.

Basis of payment will be under Adjustment of Manholes or Adjustment to Valve Boxes, per each.

WBS#: 8CR.10761.5, 8CR.20761.5, 8CR.307603.5, 8CR.307633.5, 8CR.307638.5,
8CR.307641.5 & 8CR.307650.5

Randolph County

Date: 12-05-2005

Revised: 01-06-2006

LARGE BEADS IN PAINT PAVEMENT MARKING

This work shall be in accordance with *Section 1205 Pavement Marking General Requirements* of the *2002 Standard Specifications* except as follows:

Glass Beads:

(A) Composition

The silica content of the glass beads must be at least 60 percent.

Manufacture the **Large** gradation beads from a composition designed to be highly resistant to traffic wear and to the effects of weathering.

Manufacture the **Regular** gradation beads from 100% recycled non-pigmented glass from a composition designed to be highly resistant to traffic wear and to the effects of weathering.

The appropriate glass bead coatings such as Moisture-proof and Adherence shall be applied by the bead manufacturer for proper bead embedment depth. All gradation tests shall be performed after the coatings have been applied.

This requirement will not apply for tape.

(B) Physical Characteristics

The glass beads must be colorless, transparent and free from milkiness, excessive air bubbles, skins and foreign objects.

The glass beads must have a minimum refractive index of 1.50 when tested by liquid immersion method (See ASTM D-1214) at 77°F (25°C), be spherical in shape, be essentially free of sharp angular particles, and particles showing surface scarring and scratching.

(C) Gradation

Use glass beads in all pavement marking material with a minimum of 80% true spheres when tested according to ASTM D-1155. Test large beads for Aspect Ratio, which shall be 1.2:1 or less.

Use Large Drop-On Glass Beads in Paint which meet the following gradation requirements:

<u>U.S. STANDARD SIEVE SIZE</u>	<u>% PASSING</u>	<u>% RETAINED</u>
SIEVE #8	100	0
SIEVE #10	95-100	0-5
SIEVE #12	80-95	5-20
SIEVE #14	10-40	40-80
SIEVE #16	0-5	10-40
SIEVE #18	0-2	0-5
PAN	0	0-2

The large glass beads shall be capable of flowing freely through dispensing equipment in any weather suitable for marking the pavement.

(D) Glass Bead Application:

Drop-On: Method where glass beads are dispensed by a pressurized mechanical feed or high pressure means onto the pavement marking as it is applied to the pavement. Drop-On bead dispensing for symbols and characters may be accomplished by gravitational methods such as hand scattering.

Drop on glass beads in two applications with the **regular** gradation beads in the *first* application and the **large** gradation beads in the *second* application. Apply in equal amounts by weight.

(E) Paint Application:

Apply paint with drop-on beads at the rate necessary to produce a minimum wet film thickness of 15 mils (0.38 mm)

(F) Method of Measurement and Basis of Payment:

Method of Measurement and Basis of Payment will be in accordance with *Section 1205 Pavement Marking General Requirements* of the *2002 Standard Specifications*.