STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

December 8, 2004

Addendum No. 1

RE: Contract ID: C201336
WBS # 39548.3.1
F. A. # IMS-77-1 (165) 25
Mecklenburg County (I-4756)
I-77 From NC-73 (Sam Furr Road)
To the Iredell County Line.

December 21, 2004 Letting

To Whom It May Concern:

Reference is made to the proposal form furnished to you on the above-mentioned project.

The following revision has been made to the proposal form:

On Page No. 42 a revision has been made to the "Flat and Elongated Ratio" in "Table 1-Coarse Aggregate-Properties" of the project special provision entitled "Ultra-Thin Bonded Wearing Course." Please void Page no. 42 in your proposal and staple the revised Page No. 42 thereto.

Sincerely,

R. A. Garris, PE
Contract Officer

RAG/jag/pa
Attachments
cc: Mr. W. S. Varnedoe, PE
Mr. S. D. DeWitt, PE
Mr. E. C. Powell, PE
Mr. B. G. Payne, PE
Ms. D. M. Barbour, PE
Mr. Art McMillan, PE
Mr. J. V. Barbour, PE
Mr. Mark Staley (2)
Mr. Aydren Flowers
Mr. R. E. Davenport, Jr., PE
Ms. Marsha Byrd
Ms. Taylor Mishoe
Project File (2)

MAILING ADDRESS:
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LOCATION:
CENTURY CENTER COMPLEX
BUILDING B - ENTRANCE B 15
1020 BIRCH RIDGE DRIVE
RALEIGH NC

ULTRA-THIN BONDED WEARING COURSE: **11-19-02**

DESCRIPTION:

This specification covers the requirements for the placement of ultra-thin bonded wearing course and shall consist of application of a warm polymer-modified emulsion membrane followed immediately with an ultra-thin overlay of polymer modified hot mix asphalt. The polymer-modified emulsion membrane shall be spray applied immediately prior to the application of the hot mix asphalt overlay so as to produce a homogeneous wearing surface that can be opened to traffic immediately after rolling and upon sufficient cooling.

MATERIALS:

GENERAL REQUIREMENTS FOR AGGREGATE:

All aggregates shall meet the applicable requirements of Section 1005 and Section 1012 of the Standard Specifications, except as modified herein.

Aggregates produced from crystalline limestone, crystalline-dolomitic limestone, or marble shall not be used in the production of ultrathin hot mix asphalt concrete wearing course.

COARSE AGGREGATE:

Coarse aggregates used shall be from approved sources and shall meet the requirements of Table 1005-1 of the Standard Specifications, unless otherwise approved by the Engineer.

Coarse aggregates, such as crushed gravel, limestone, dolomite, sandstone, granite, chert, traprock, ore tailings, slag, or other similar materials, or blends of two or more of the above may be acceptable. When coarse aggregates for these mixes are from more than one source or of more than one type of material, they shall be proportioned and blended to provide a uniform mixture if approved by the Engineer. The coarse aggregates selected should be those typically used for high performance surfaces. Coarse aggregates should meet the skid resistance criteria as set forth by the Department or have a history of successful use in surface mixes for the intended traffic level.

Coarse aggregate material retained above the No. 4 sieve shall be from approved sources and shall meet the requirements listed in Table 1 below.

Table 1 - Coarse Aggregate - Properties

Tests		Method	Limit
Los Angeles abrasion value, % loss		AASHTO T 96	35 max
Soundness, % loss	Magnesium Sulfate or Sodium Sulfate	AASHTO T 104	18 max 12 max
Flat & Elongated Ratio, 5:1, + No. 4, %		ASTM D 4791	10 max
% Crushed, single face		ASTM D 5821	100 min
% Crushed, two or more mechanically crushed faces		ASTM D 5821	85 min
Micro-Deval, % loss		AASHTO TP 58-99	18 max