February 24, 2006

Memorandum To:  Steve Varnedoe, P.E.
                Steve DeWitt, P.E.
                Deborah Barbour, P.E.
                Lacy Love, P.E.
                Bill Rosser, P.E.

From:        Len Sanderson, P.E.
             State Highway Administrator

Subject:     Pipe Material Alternates

In an effort to provide alternate material choices on projects it has been decided that beginning with the June 20, 2006 letting all projects shall include line item pipe material alternates covered by Section 310 of the Standard Specifications. The pipe material alternates to be included are Reinforced Concrete Pipe, Class III; HDPE smooth lined corrugated plastic pipe; or Aluminized Corrugated Steel Pipe, Type IR.

The alternate pipe materials to be used in lieu of concrete pipe shall be used in non live-load situations up to 48 inches in diameter. Non live-load situations is defined as those pipes which are not located under travelways including curb and gutter.

Please find attached a pay item sheet and drainage summary as an example of how to show the alternates in the estimate and plans. Also attached are the project special provisions that will need to be included in projects.

Again, this is to be effective with the June 20, 2006 letting. If you have any questions please contact Cynthia B. Perry, PE in the Plan Review Section of the Project Services Unit at 919-250-4128.

LAS/jvb

Attachments

cc:        Art McMillan, P.E., State Highway Design Engineer
           J.A. Bennett, P.E., State Roadway Design Engineer
           D.R. Henderson, P.E., State Hydraulics Engineer
           J.V. Barbour, P.E., State Project Services Engineer
           R.A. Garris, P.E., State Contract Officer
           C.B. Perry, P.E., Plan Checking Section Engineer
           Division Engineers
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Total Amount Of Bid For Entire Project:
HDPE PIPE ALTERNATE:

The Contractor may substitute Type S or Type D HDPE pipe in lieu of concrete pipe up to 48 inches in diameter, except that HDPE pipe will not be permitted for use under travelways, including under curb and gutter.

HDPE pipe material shall conform to the requirements of Subarticle 1044-7 and installation shall conform to the requirements of Section 300 of the Standard Specifications for Method A, except that the minimum cover shall be at least 12 inches (300 mm).

HDPE Pipe culvert will be measured and paid for as the actual number of linear feet (meters) installed and accepted. Measurement will be in accordance with Section 310-6 of the Standard Specifications.

Payment will be made under:

____" (mm) HDPE Pipe Culverts

ALUMINIZED CORRUGATED STEEL PIPE ALTERNATE:

The Contractor may substitute Aluminized Corrugated Steel Pipe, Type IR meeting the requirements of Article 1032-3(A)-7 of the Standard Specifications in lieu of concrete pipe up to 48 inches in diameter, except Aluminized Corrugated Steel Pipe, Type IR will not be permitted for use under travelways, including under curb and gutter.

Aluminized Corrugated Steel Pipe culvert material must conform to the requirements of AASHTO M36 and installation shall conform to the requirements of Section 300 of the Standard Specifications for Method A, except that the minimum cover shall be at least 12 inches (300 mm).

Aluminized Corrugated Steel Pipe culvert will be measured and paid for as the actual number of linear feet (meters) installed and accepted. Measurement will be in accordance with Section 310-6 of the Standard Specifications.

Payment will be made under:

____" (mm) Aluminized Corrugated Steel Pipe Culverts, ____" (mm) Thick