

ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT
EQUIPMENT AND PROCUREMENT OFFICE
LITTLE ROCK, ARKANSAS

November 9, 2006

NOTICE TO BIDDERS

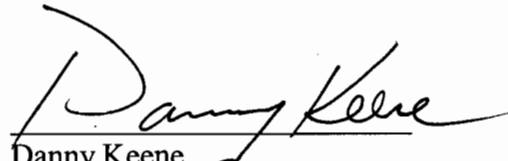
ADDENDUM

BID NO. M-07-053P

OPENING DATE: November 14, 2006

The attached soil analysis is provided to represent current conditions that could affect foundation design. The Department will undercut the soil at this location and stabilize to a bearing strength of 3000psf.

The soil at both Berryville and Conway have been tested and demonstrate a bearing capacity of 3000psf.



Danny Keene
Division Head
Equipment and Procurement

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

November 7, 2006

TO: Mr. David Lambert, State Maintenance Engineer

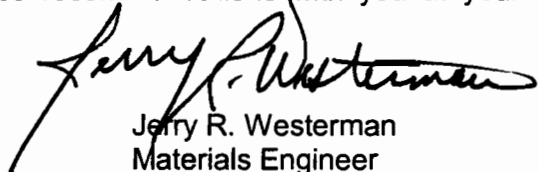
SUBJECT: Subsurface Investigation
Proposed Salt Storage Structure
Desha County Area Maintenance Headquarters

A subsurface investigation was performed in the area of a proposed new salt dome structure for the Desha County Area Maintenance Headquarters. The proposed location is near the southeast corner of the maintenance lot in a location where the top 12 inches of subgrade has been lime stabilized. This information is supplemental to the report transmitted by inter office memorandum dated September 23, 2005. Attached is a copy of the boring logs.

Two borings were performed at locations marked by District Two personnel at opposite corners of the proposed building pad. The existing proposed location consisted of approximately 4 inches of Asphalt Concrete Hot Mix Surface underlain with 11 inches of gravel base course. The top 12 inches of the subgrade below the base course had previously been treated with lime to provide a stable subgrade. Undisturbed Shelby tube samples were obtained to a depth of 6 feet below the base course. Unconfined triaxial tests were performed on representative samples taken 2 to 4 feet deep and 4 to 6 feet deep within both borings. The samples taken in the upper two feet of subgrade resulted in an average cohesive strength of 675psf with an average moisture content of 37 percent. The samples taken in the lower 4 feet of subgrade resulted in an average cohesive strength of 1930psf with an average moisture content of 22.5 percent. Laboratory test results are attached for your review.

According to typical drawings provided by the Maintenance Division, the proposed salt storage structure design has been revised from previously reported in the September 23, 2006 memorandum. The new design consists of a rectangular building with 8 feet high perimeter retaining walls and a wide spread footing to support the structure, retaining wall and a salt/sand stockpile mixture. Discussions with your staff have indicated that the footing width would be approximately 5 feet wide, 15 inches thick with the top of footing placed 1 foot below the asphalt surface. Based on the proposed location, preliminary footing design, laboratory test results and footing founded at a depth of 27 inches below the asphalt surface, an allowable bearing pressure of 2100psf is recommended. The recommended allowable bearing capacity is based on a factor of safety of 2.0, which is lower than the generally accepted value of 3.0 for normal foundation design. The footing footprint may be undercut to a depth of 4 feet below the ACHM surface (21 inches below proposed bottom of footing) and replaced with compacted select material to provide a minimum 3000psf allowable bearing capacity,

The Geotechnical Section is available to discuss these recommendations with you at your convenience.


Jerry R. Westerman
Materials Engineer

JRW:ja:dsr
Attachments
cc: District 2 Engineer
G.C. File

RECEIVED

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AHTD
MAINTENANCE DIVISION