The information contained herein was obtained by the Department for design and estimating purposes only. It is being furnished with the express understanding that said information does not constitute a part of the Proposal or Contract and represents only the best knowledge of the Department as to the location, character and depth of the materials encountered. The information is only included and made available so that bidders may have access to subsurface information obtained by the Department and is not intended to be a substitute for personal investigation, interpretation and judgment of the bidder. The bidder should be cognizant of the possibility that conditions affecting the cost and/or quantities of work to be performed may differ from those indicated herein.
1. Ground water elevations indicated on boring logs represent ground water elevations at date or time shown on boring log. Absence of water surface implies that no ground water data is available but does not necessarily mean that ground water will not be encountered at locations or within the vertical reaches of these borings.

2. Borings represent subsurface conditions at their respective locations for their respective depths. Variations in conditions between or adjacent to boring locations may be encountered.

3. Terms used for describing soils according to their texture or grain size distribution are in accordance with the Unified Soil Classification System.

**Standard Penetration Test** – Driving a 2.0” O.D., 1-3/8” I.D. sampler a distance of 1.0 foot into undisturbed soil with a 140 pound hammer free falling a distance of 30 inches. It is customary to drive the spoon 6.0 inches to seat into undisturbed soil, then perform the test. The number of hammer blows for seating the spoon and performing the test are recorded for each 6 inches of penetration on the drill log. The field “N” Value (Nf) can be obtained by adding the bottom two numbers for example: $\frac{6}{8} + 9 = 17$ blows/ft. The “N” Value corrected to 60% efficiency (N60) can be obtained by multiplying Nf by the hammer correction factor published on the boring log.
<table>
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<tr>
<th>Depth</th>
<th>SYMBOL</th>
<th>Samples</th>
<th>Description of Material</th>
<th>Soil Group</th>
<th>Plastic Limit</th>
<th>Moist. Limit</th>
<th>Liquid Limit</th>
<th>Dry Weight Lbs/ft.</th>
<th>No. of Bows</th>
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<th>Liquid Limit</th>
<th>Dry Weight (lbs per cu ft)</th>
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<th>Liquid Limit</th>
<th>Dry Weight</th>
<th>Lbs. per cu.ft.</th>
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<td>SHALE - Highly Weathered with Weathered Layers, Soft with Medium Hard Layers, Dark Gray</td>
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**Remarks:**

- **Date:** October 20, 2015
- **Type of Drilling:** Hollow Stem Auger - Diamond Core
- **Equipment:** CME 850

**Hammer Correction Factor:** 1.23
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<th>Plastic Limit</th>
<th>% Moist.</th>
<th>Liquid Limit</th>
<th>Dry Weight (LBS PER CU. FT)</th>
<th>No. of Bows PER 6-IN.</th>
<th>% TCR</th>
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Remarks:

Boring Terminated
### Description of Material

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<th>Surface Elevation</th>
<th>Description of Material</th>
<th>Soil Group</th>
<th>Plastic Limit</th>
<th>% Moist.</th>
<th>Liquid Limit</th>
<th>Dry Weight</th>
<th>Lbs. per cu.ft.</th>
<th>No. of Bows</th>
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<th>% R.Q.D</th>
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**Remarks:** * A wet Layer was encountered at 11.2 to 11.5 feet below ground level
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**DESCRIPTION OF MATERIAL**

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<th>LIQUID LIMIT</th>
<th>DRY WEIGHT</th>
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<th>PER. 6-IN.</th>
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**REMARKS:** * A wet Layer was encountered at 11.2 to 11.5 feet below ground level
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**Remarks:**

**Notes:**

- **Job No.:** 090503 (Internal Job # D09192) - Newton County
- **Job Name:** Hwy 74 Slide - West of Jasper
- **Station:** 603+11
- **Location:** 7' Left of Centerline
- **Logged By:** Steve Faulkner
- **Completion Depth:** 54.1
- **Date:** October 19 & 20, 2015
- **Type of Drilling:** Hollow Stem Auger - Diamond Core
- **Equipment:** CME 850
- **Hammer Correction Factor:** 1.23
### ARKANSAS HWY. & TRANS. DEPARTMENT
#### MATERIALS DIVISION - GEOTECHNICAL SEC.

**JOB NO.:** 090503 (Internal Job # D09192)  
**NEWTON COUNTY**

**JOB NAME:** Hwy 74 Slide - West of Jasper  
**DATE:** October 19 & 20, 2015

**STATION:** 603+11  
**LOCATION:** 7' Left of Centerline  
**LOGGED BY:** Steve Faulkner

**COMPLETION DEPTH:** 54.1 ft.  
**EQUIPMENT:** CME 850

**HAMMER CORRECTION FACTOR:** 1.23

<table>
<thead>
<tr>
<th>DEPTH (FT.)</th>
<th>SYMBOL</th>
<th>SAMPLES</th>
<th>DESCRIPTION OF MATERIAL</th>
<th>SOIL GROUP</th>
<th>PLASTIC LIMIT</th>
<th>% MOIST.</th>
<th>LIQUID LIMIT</th>
<th>DRY WEIGHT</th>
<th>LBS PER CU FT.</th>
<th>NO. OF BLOWS</th>
<th>% TCR</th>
<th>% RQD</th>
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<tbody>
<tr>
<td>40</td>
<td></td>
<td></td>
<td>SHALE - Highly Weathered, Soft, Gray</td>
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<td>SANDSTONE - Slightly Weathered, Well Cemented, Calcareous, Gray</td>
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<td>SHALE - Highly Weathered, Medium Hard, Brown and Gray</td>
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<td>SHALE WITH OCCASIONAL SANDSTONE SEAMS AND LAYERS - Slightly Weathered, Medium Hard, Dark Gray</td>
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**REMARKS:**
<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Description of Material</th>
<th>Soil Group</th>
<th>Plastic Limit</th>
<th>% Moist. Limit</th>
<th>Liquid Limit</th>
<th>Dry Weight Lbs/Cft</th>
<th>No. of Blows</th>
<th>Percent TCR</th>
<th>Percent RQD</th>
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<tbody>
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<td>Moist, Medium Stiff, Brown and Gray Clay with Gravel and Cobbles</td>
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<td>Moist, Soft, Brown and Gray Clay with Gravel (Rock Fragments)</td>
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<tr>
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<td>SHALE - Slightly Weathered, Medium Hard, Dark Gray</td>
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