



# UNIVERSAL

## ENGINEERING SCIENCES

Consultants in: Geotechnical Engineering •  
Environmental Sciences • Construction Materials Testing

4475 S.W. 35th Terrace • Gainesville, Florida 32608 • (904) 372-3392

ORDER NO.: 22162-029-00

REPORT NO.: 10355

DATE: 10-11-00

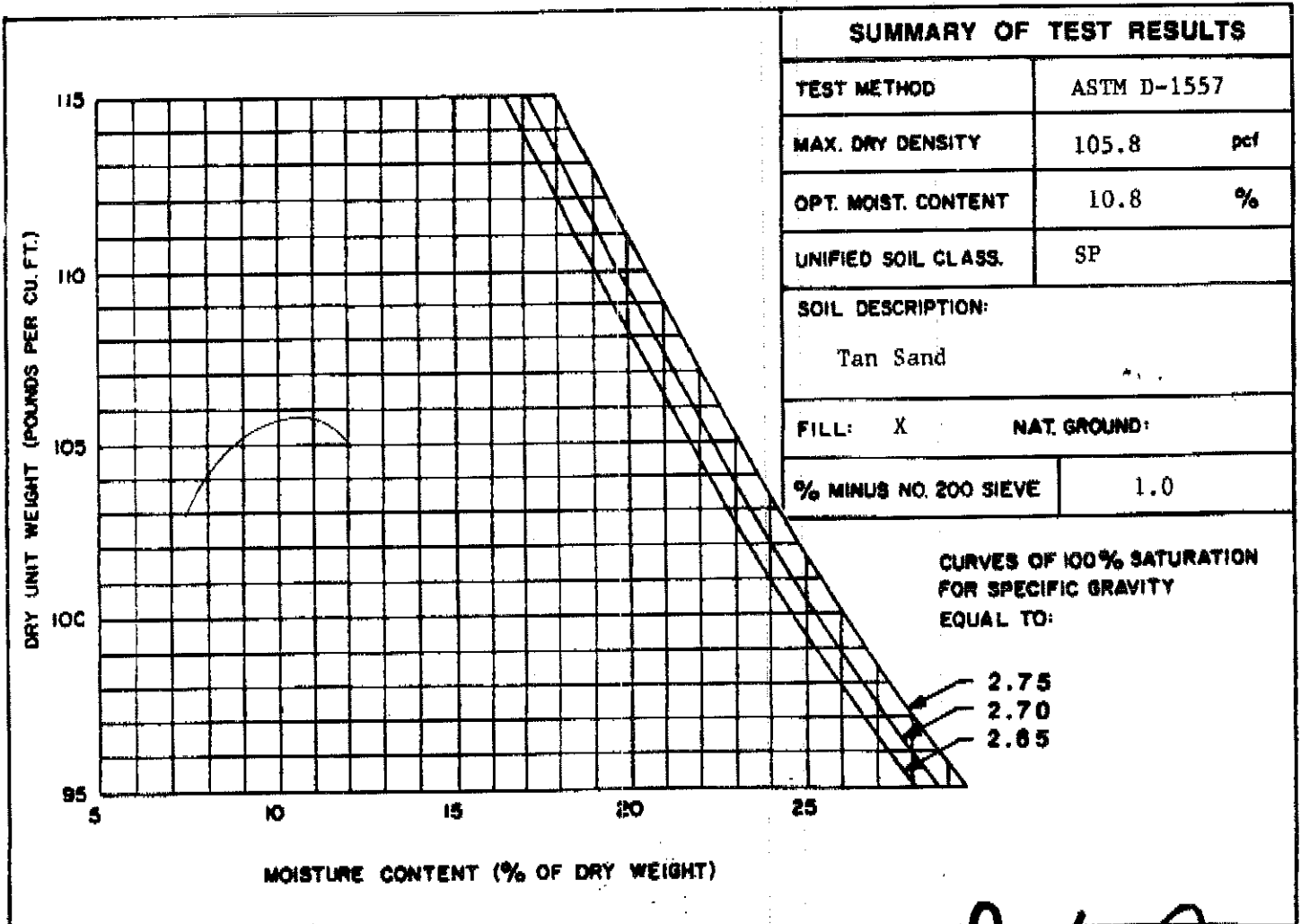
### REPORT OF MOISTURE - DENSITY RELATIONSHIP OF SOIL

CLIENT: O'Steen Brothers  
1006 SE 4th Street  
Gainesville, FL 32601

PROJECT: Pit Check, Archer, Alachua County, FL

LOCATION: Fill

DATE TESTED: 07-20-00



7/cs

*Kenneth L. Hill*  
KENNETH L. HILL, P.E.

*Jack Ray*  
JACK RAY  
REGIONAL MANAGER



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ORDER NO.: 22169-029-00

REPORT NO.: 10356

DATE: 10-11-00

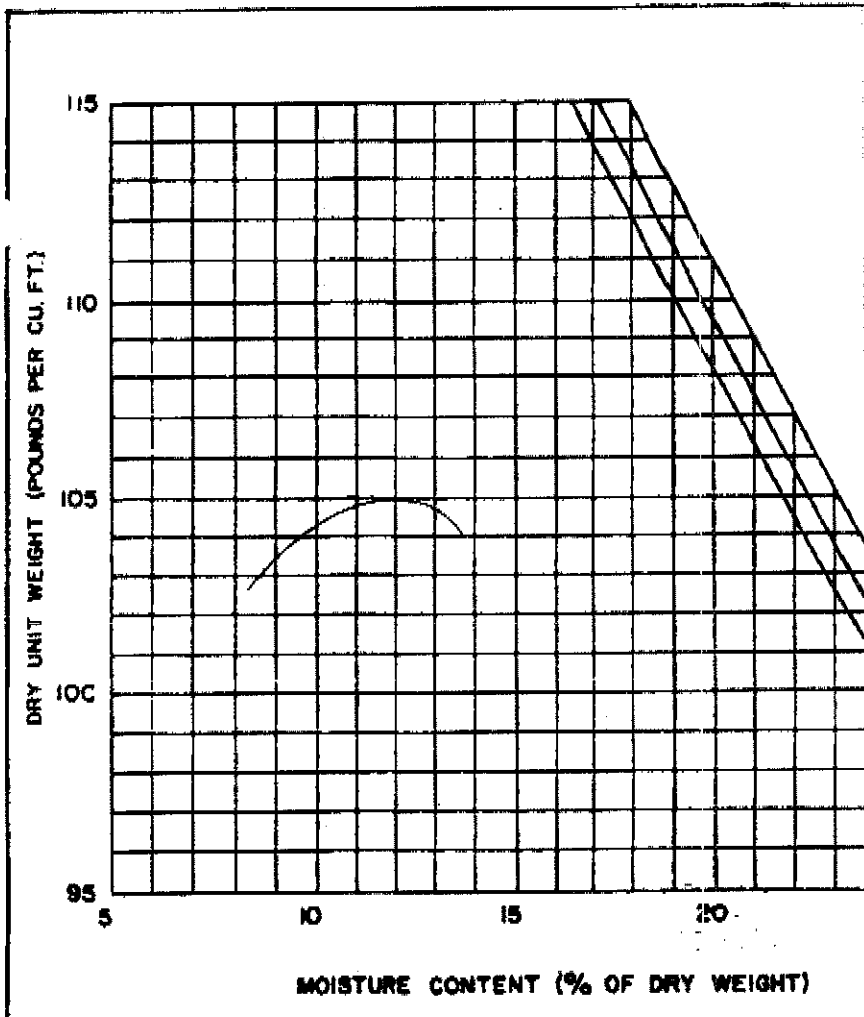
### REPORT OF MOISTURE - DENSITY RELATIONSHIP OF SOIL

CLIENT: O'Steen Brothers  
1006 SE 4th Street  
Gainesville, FL 32601

PROJECT: Pit Check, Archer, Alachua County, FL

LOCATION: Fill

DATE TESTED: 07-20-00



#### SUMMARY OF TEST RESULTS

|                               |              |
|-------------------------------|--------------|
| TEST METHOD                   | ASTM D-698   |
| MAX. DRY DENSITY              | 105.0 pcf    |
| OPT. MOIST. CONTENT           | 12.0 %       |
| UNIFIED SOIL CLASS.           | SP           |
| SOIL DESCRIPTION:<br>Tan Sand |              |
| FILL: X                       | NAT. GROUND: |
| % MINUS NO. 200 SIEVE         | 1.0          |

CURVES OF 100% SATURATION  
FOR SPECIFIC GRAVITY  
EQUAL TO:

- 2.75
- 2.70
- 2.65

7cs

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KENNETH L. HILL, P.E.

*Jack Ray*  
JACK RAY  
REGIONAL MANAGER

**SUMMARY OF LABORATORY RESULTS**

PROJECT: Pit Check, Archer, Alachua County, FL

ORDER NO: 22162-029-00

REPORT NO: 10357

CLIENT: O'Steen Brothers

DATE: 10-11-00

| BORING NO. | SAMPLE DEPTH (FT) | SOIL DESCRIPTION                      | SAMPLE TYPE | NATURAL MOISTURE (%) | ATTERBERG LIMITS |                      | COEFFICIENT OF PERMEABILITY (FT/DAY) | SIEVE ANALYSIS (% passing) |        |        |        |         |         | ASTM SOIL CLASSIFICATION | UNIFIED SOIL CLASSIFICATION |
|------------|-------------------|---------------------------------------|-------------|----------------------|------------------|----------------------|--------------------------------------|----------------------------|--------|--------|--------|---------|---------|--------------------------|-----------------------------|
|            |                   |                                       |             |                      | LIQUID LIMIT (%) | PLASTICITY INDEX (%) |                                      | No. 4                      | No. 10 | No. 40 | No. 60 | No. 100 | No. 200 |                          |                             |
|            |                   | Tan Sand<br><br>Date Tested: 07-20-00 |             |                      | N/P              | N/P                  |                                      | 100                        | 100    | 100    | 80     | 21      | 1.0     | A-3                      | SP                          |

\*SS-Split Spoon  
ST-Shelby Tube  
A-Auger

Reviewed  
By:

*Kenneth L. Hill*  
Kenneth L. Hill, P.E.

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