

BORING LOCATION PLAN

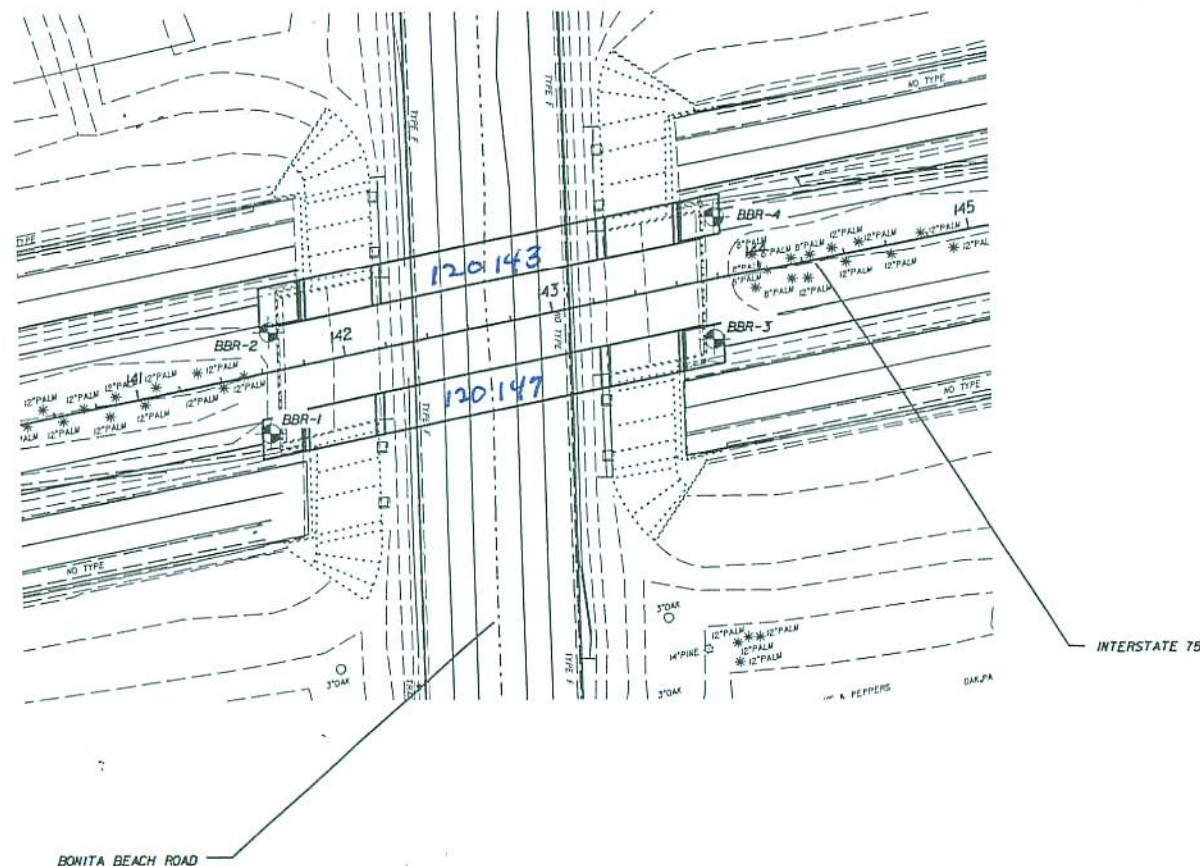


LOCATION	
TOWNSHIP: 47 S & 48 S	
RANGE: 26 E	
SECTION: 6 & 31	



LEGEND

APPROXIMATE LOCATION OF SPT BORING



REVISIONS			
DATE	BY	DESCRIPTION	

TIERRA
Geotechnical and Materials Engineering
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Engineer of Public Works A. Bello, P.E., No. 50699

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-93	LEE	406225-2-52-01

REPORT OF CORE BORINGS I-75/BONITA BEACH ROAD

SHEET
NO.

Latitude: 26.331422 North
Longitude: -81.750325 West

LEGEND

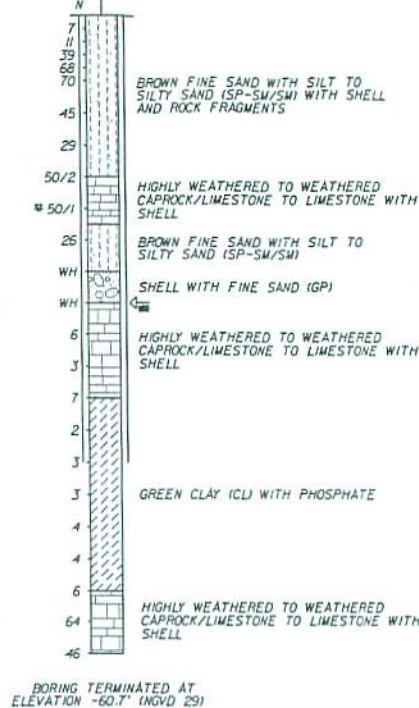
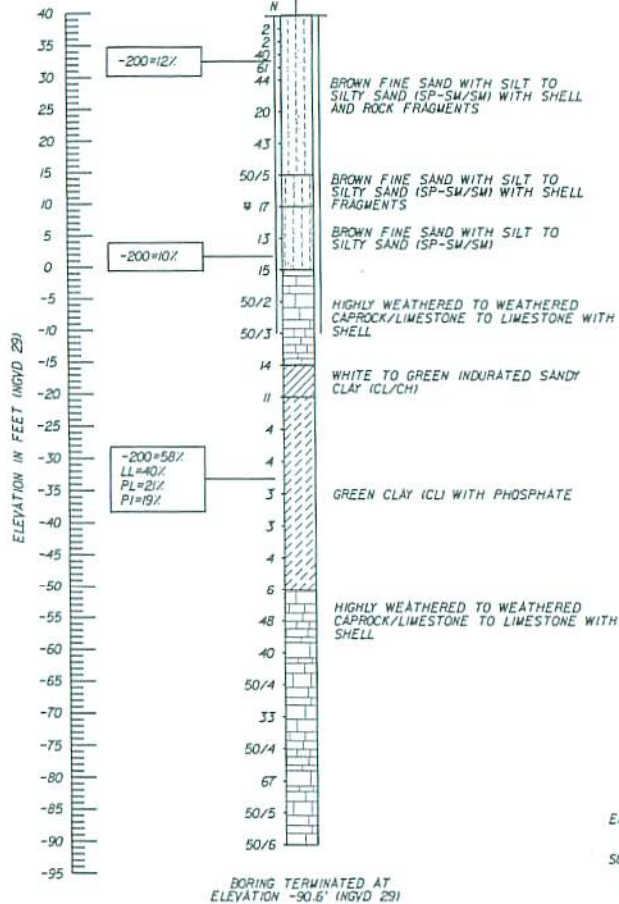
- BROWN FINE SAND WITH SILT TO SILTY SAND (SP-SM/SW)
- HIGHLY WEATHERED TO WEATHERED LIMESTONE (CAPROCK) TO LIMESTONE WITH SHELL
- WHITE TO GREEN INDURATED SANDY CLAY (CL/CH)
- GREEN CLAY (CL)
- SHELL WITH FINE SAND (GP)

- SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2488) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
- GROUNDWATER LEVEL
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
- 200 FINES PASSING THE #200 STANDARD SIEVE (%)
- LL LIQUID LIMIT (%)
- PL PLASTIC LIMIT (%)
- PI PLASTICITY INDEX (%)
- NP NON PLASTIC
- LOSS OF CIRCULATION OF DRILLING FLUID (%)
- CASING
- 50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
- WH FELL UNDER WEIGHT OF ROD AND HAMMER
- NOTE: STATION - OFFSET AND ELEVATION PROVIDED BY DENI ASSOCIATES, INC.
- NGVD 29 NATIONAL GEODETIC VERTICAL DATUM OF 1929

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5 TO 10
MEDIUM	11 TO 30
DENSE	31 TO 50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3 TO 4
FIRM	5 TO 9
STIFF	9 TO 15
VERY STIFF	16 TO 30
HARD	GREATER THAN 30

BOR STA. REF. OFF. ELEV. DATE DRILLER HAMMER RIG
BBR-1 41+59 BL SURVEY 31' RT 39.4 3/3/2004 A. TORRES MANUAL CME-45

BOR STA. REF. OFF. ELEV. DATE DRILLER HAMMER RIG
BBR-2 41+68 BL SURVEY 20' LT 39.3 3/4/2004 A. TORRES MANUAL CME-45



ENVIRONMENTAL CLASSIFICATION:
SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE
SUBSTRUCTURE STEEL: SLIGHTLY AGGRESSIVE
SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

SOIL RESULTS:
RESISTIVITY 11,000 to 32,000 OHMS-CM
CHLORIDES 15 to 30 PPM
SULFATES < 2.4 PPM
pH 7.7 to 8.0

REVISIONS			
DATE	BY	DESCRIPTION	DATE

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Br 120 143

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