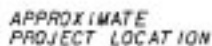


REFERENCE: US DEPARTMENT OF AGRICULTURE, "LEE COUNTY, FLORIDA"
TOWNSHIP: 46S ISSUED: 1981:
RANGE: 25E PHOTO: -
SECTION: 35 SCALE: - N.T.S.:



REFERENCE: USGS TOPOGRAPHICAL MAPS, "ESTERO, FLORIDA"
TOWNSHIP: 46S ISSUED: 1927;
RANGE: 25E PHOTO: -
SECTION: 35 SCALE: N.T.S.:

REVISIONS						TERRA Geotechnical and Materials Engineering 1800 Professional Plaza, Suite A Tampa, Florida 33605 813-988-1000 P.O. Box 1607 Tampa, Florida 33601	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS I-75 OVER MONTY RUN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR-93	LEE	406225-2-52-01			

BORING LOCATION PLAN



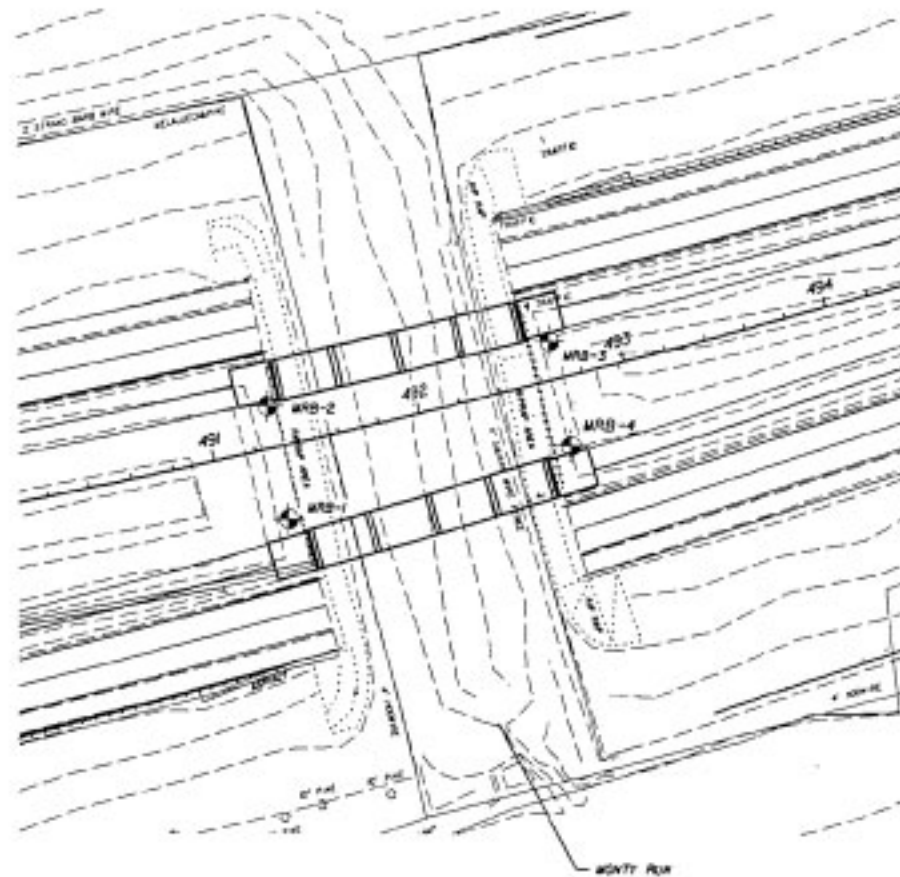
LOCATION	
TOWNSHIP:	46 S
RANGE:	23 E
SECTION:	25



LEGEND

APPROXIMATE LOCATION OF SPT BORING

NOTE - BASE MAP PLAN PROVIDED BY HDR



REVISIONS					TIERRA Geotechnical and Materials Engineering 1000 Professional Plaza, Suite A Tampa, Florida 33607 813-288-1100 FL Civil PE No. 1000 Engineer of Record: James A. Reed, P.E. No. 50000	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS I-75 OVER MONTY RUN	SHEET NO.
NO.	DATE	DESCRIPTION	BY	DESCRIPTION		ROAD NO.	COUNTY	FISCAL PROJECT ID		
						SR-9J	LEE	406225-2-52-01		

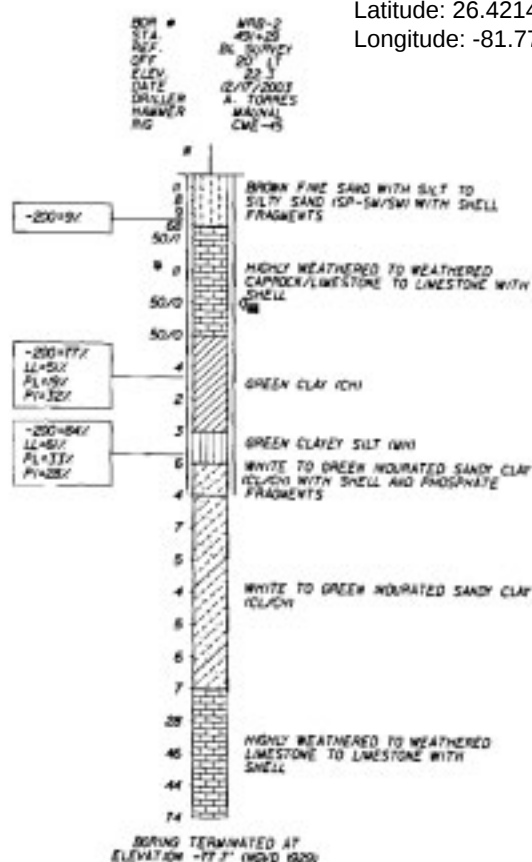
REVISED

DATE: 10/1/2001

ISSUE NO.

2/10/2002 7:41:40 PM C:\Users\james.a.reed\Documents\406225-2-52-01\406225-2-52-01.dwg

LEGEND



-  BROWN FINE SAND WITH SILT TO SILTY SAND (SP-SM/SSM)
 HIGHLY WEATHERED TO WEATHERED LIMESTONE (ACAPROCK) TO LIMESTONE WITH SHELL
 WHITE TO GREEN INDURATED SANDY CLAY (CL/CI)
 GREEN CLAY (GM)
 GREEN CLAYEY SILT (MH)
 SHELL WITH FINE SAND (SP)
- SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2486) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
 ↓ GROUNDWATER LEVEL
 * NUMBERS TO THE LEFT OF BORINGS INDICATE SOFT 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 (%)
 AP NON PLASTIC
 LOSS OF CIRCULATION OF DRILLING FLUID (%)
 | CASING
 50/M NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
 NOTE: STATION - OFFSET AND ELEVATION PROVIDED BY GEM ASSOCIATES, INC.

ENVIRONMENTAL CLASSIFICATION:	
SUBSTRUCTURE	CONCRETE: MODERATELY AGGRESSIVE ¹ 1500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM
SUBSTRUCTURE	STEEL: MODERATELY AGGRESSIVE 1500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM
SUPERSTRUCTURE	SLIGHTLY AGGRESSIVE
WATER RESULTS:	
RESISTIVITY	2,300 OHMS-CM
CHLORIDES	85 PPM
SULFATES	30.3 PPM
OH	7.4
SOIL RESULTS:	
RESISTIVITY	1,000 to 6,000 OHMS-CM
CHLORIDES	30 to 80 PPM
SULFATES	< 2.4 PPM
OH	6.8 to 7.6

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

REVISIONS					
DATE	R#	DESCRIPTION	DATE	R#	DESCRIPTION

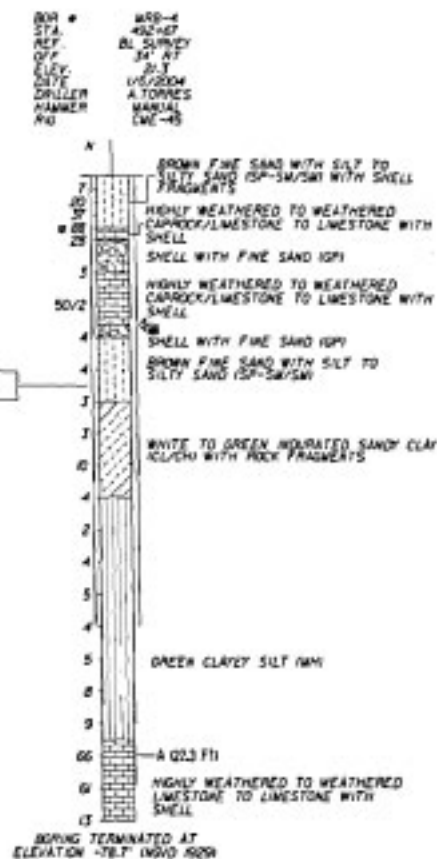
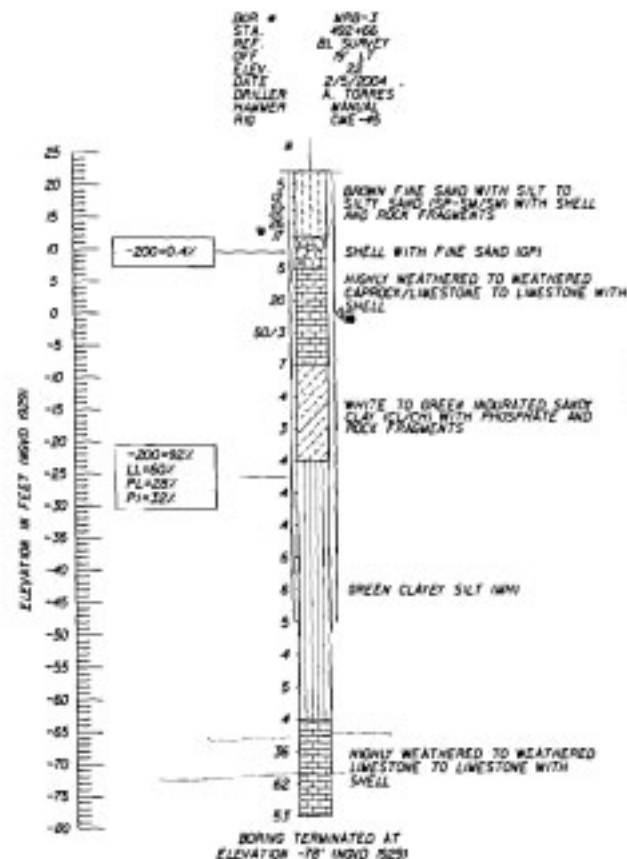
TIERRA
Geotechnical and Materials Engineering
7000 Professional Plaza, Suite 2
Tampa, FL 33635, U.S.A.
813-989-1100
F1 Drive W. 402
Engineer of Record: James A. Beck, P.E., Inc. 4000

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
NO.	COUNTY	FINANCIAL PROJECT ID
93	LEE	406225-P-SP-0

REPORT OF CORE BORINGS
I-75 OVER MONTY RUN

SHEET
NO.

SUBJECT: THE OFFICIAL ATTORNEY OF THIS DISTRICT IS NOT CURRENTLY FILING SEVERAL AND SEVERAL UNDER RULE 6003, P.A.C.



- LEGEND
- BROWN FINE SAND WITH SILT TO SILTY SAND (SP-SM/SS)
 - HIGHLY WEATHERED TO WEATHERED Limestone (CAPROCK) TO Limestone WITH SHELL
 - WHITE TO GREEN INDURATED SANDY CLAY (CLAY)
 - GREEN CLAY (GM)
 - GREEN CLAYEY SILT (MH)
 - SHELL WITH FINE SAND (SP)
 - 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 (LC)
 - A 023 FT ENCOUNTERED ARTESIAN WITH HEAD ELEVATION OF 22.3 FT
 - CASING
 - SO/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
 - NOTE: STATION - OFFSET AND ELEVATION PROVIDED BY DENI ASSOCIATES, INC.

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: MODERATELY AGGRESSIVE
1500 OHMS-CM < RESISTIVITY < 5,000 OHMS-CM

SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE
1500 OHMS-CM < RESISTIVITY < 5,000 OHMS-CM

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

WATER RESULTS:
RESISTIVITY 2,000 OHMS-CM
CHLORIDES 60 PPM
SULFATES 29.3 PPM
pH 7.4

SOIL RESULTS:
RESISTIVITY 1,800 TO 6,000 OHMS-CM
CHLORIDES 30 TO 60 PPM
SULFATES < 2.4 PPM
pH 6.8 TO 7.8

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	10 TO 15
VERY STIFF	16 TO 30
HARD	GREATER THAN 30

REVISIONS			
DATE	BY	DESCRIPTION	DATE

TERRA
Geotechnical and Materials Engineering
1800 Professional Plaza, Suite A
Pompano Beach, FL 33069-1847
P.O. Box 100
Pompano Beach, FL 33069-1000

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 OVER MONTY RUN

SHEET
NO.

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND BEARING UNDER FILE #406225-2-52-01, T.A.C.