

GFA INTERNATIONAL

FLORIDA'S LEADING ENGINEERING SOURCE

REPORT OF GEOTECHNICAL ENGINEERING SERVICES

CROSTOWN PARKWAY

PORT ST. LUCIE, FLORIDA

FOR

KEITH AND SCHNARS, P.A

December 23, 2008



Environmental Consulting | Geotechnical Engineering | Construction Materials Testing
Threshold & Special Inspections | Private Provider & Code Compliance



December 23, 2008

Mr. John Abbott, P.G.
Keith and Schnars, P.A.
6500 North Andrews Ave
Fort Lauderdale, Florida 33309-2132
Phone: (954) 776-1616 (ext. 6716)
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RE: Double-Ring Infiltration Testing and Soil Profile
Crosstown Parkway
Port St. Lucie, Florida
GFA Project Number: 08-0855A

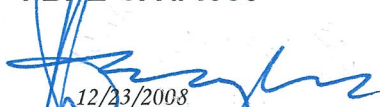
GFA International performed geotechnical engineering services for this project in accordance with our Work Order No. 1 for Keith and Schnars, P.A. (K & S) project #17125.11.

The testing consisted of 25 double-ring infiltration tests per ASTM 3385 to determine the soil infiltration rates at general location determined by Keith & Schnars. These locations were given to us on an aerial map with X, Y coordinates. Our services also included performing a soil profile at each location in order to determine the seasonal high water table and measuring the water table at the time of the tests.

Find attached a soil profile report for each location with the water table measurement, seasonal high water table, as well as the water and soil temperatures. Behind each soil profile is the double-ring infiltration test report with a graph of the incremental infiltration rate versus the total elapsed time. Test locations 5, 8, 14, and 24 had to be moved slightly from the requested location because of obstructions, they were staked in the field and the approximate location was noted on the reports.

It was a pleasure providing you with our services and if you need further assistance or if you have any questions please do not hesitate to call.

Respectfully Submitted,
GFA International, Inc.
FBPE CA #4930


12/23/2008
Jean F. Desnoyers, P.E.
Professional Engineer #47885
State of Florida



RECORD OF TEST BORING

PROJECT/LOCATION: Crosstown Parkway

BORING NO: HA-1

PROJECT NO: 08-0855A

START: 11/18/08

FINISH: 11/18/08

WEATHER: Cool

BORING LOCATION: X = 872190.6070, Y = 1078573.2842

DRILLER: Ozzy and David

DRILL: Truck 233

DRILL CONTRACTOR: GFA International, Inc.

ELEV.: N/A

GROUNDWATER: 3'3"

DATE CHECKED: 11/18/08

BORING METHOD: Hand Auger

FLUID LOSS:

ELEV./ DEPTH	SOIL SYMBOLS AND FIELD TEST DATA	MAJOR SOIL COMPONENT	OTHER COMPONENTS	REC. (%)	STANDARD PENETRATION TEST		
					DEPTH	N	CURVE
							10 30 50
0 2.5 5 7.5 10 12.5 15		<p>SAND</p>	<p>(0 - 1') Brown to dark brown, fine to medium grained, trace of silt and fine roots. (1' - 2') Dark gray, fine grained.</p> <p>(2' - 3.5') Light brown, medium to fine grained.</p> <p>(3.5' - 3.75') Light brown to tan, fine grained.</p> <p>Seasonal High Groundwater Elevations based on soil mottling: 2'11"</p> <p>Soil Temperature: 62.4°F Water Temperature: 64.9°F Probe Test = 2'</p>		0'-4'		

Soil and rock samples recovered using ASTM D-1586 test procedures.