

1:20 m
POLE LOCATION= 4-4
STA. 460+36,
26.6 m Left±
R/W Line

S.R. 540 (CYPRESS
GARDENS BLVD.)

POLE LOCATION= 4-1
STA. 460+75,
27.1 m Left ±
R/W Line

LOCATION:
TOWNSHIP 29S
RANGE 27E
SECTION 08

LATITUDE 27° 58' 30" EAST
LONGITUDE 81° 37' 45" NORTH

460

461

S.R. 25 (US 27)

R/W Line
POLE LOCATION= 4-3
STA. 460+30,
26.5 m Right±

WAVERLY ROAD
WAVERLY ROAD

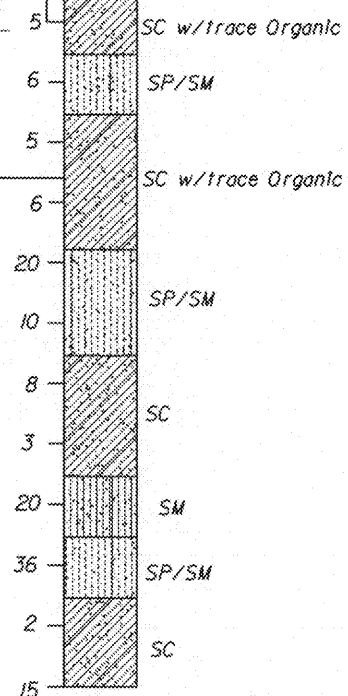
R/W Line
POLE LOCATION= 4-2
STA. 460+64,
25.5 m Right±

BORING NO. B-3
Sta. 460+24
25 m Right
Elev. 36.53
03/06/02

Elevation (meters, NGVD)

L.L. = 26 %
P.L. = 8 %
-200 = 25 %
ORG. = 1 %
M.C. = 16 %

L.L. = 37 %
P.L. = 20 %
-200 = 45 %
ORG. = 2 %
M.C. = 24 %



Elevation (meters, NGVD)

Recommended Design Parameters for 4-1, 4-2, 4-3 and 4-4				
Elevation (meters)	Submerged Unit Wt. kN/m ³	Total Unit Wt. kN/m ³	Angle of Internal Friction (degrees)	Cohesion (MPa)
36.5-26.0	16.5	6.7	29	-----

Submerged unit weight should be used below the water table.

LEGEND

- SP-SM, Poorly graded sands and gravelly sands, to silty sands, sand-silt mixtures.
- SM, Silty sands, sand-silt mixtures.
- SC, Clayey sands, sand-clay mixtures.

NOTES

Numbers to the left of borings indicate SPT values for 300 mm penetration. (Unless otherwise noted.)

50/90 = Number of blows for 90 mm of penetration.

▽ = Water Table

○ = Signal Pole Location

⊙ = SPT Boring Location

⊙ = CPT Boring Location

Type Rig = D-50

Hammer Used = Automatic

All Elevations based on BM # 518

BENCHMARK DESCRIPTION AND LOCATION

Standard FDOT concrete monument with brass disk, ± 27 m East of US 27 Northbound and ± 62 m South of Waverly Road 43.3 m Right of Survey @ Sta. 459+94.3 m

Corrosion Series Results

Resistivity Ohms - cm	Chloride ppm	Sulfates ppm	pH
5,900	60	9.6	6.3

GRANULAR MATERIALS-

Relative Density	Safety Hammer SPT N-Value Blow/Foot	Automatic Hammer SPT N-Value Blow/Foot
	Less than 4	Less than 3
Very Loose	Less than 4	Less than 3
Loose	4 - 10	3 - 7
Medium or Compact	10 - 30	7 - 21
Dense	30 - 50	21 - 35
Very Dense	Greater than 50	Greater than 35

SILTS AND CLAYS-

Consistency	Safety Hammer SPT N-Value Blow/Foot	Automatic Hammer SPT N-Value Blow/Foot
	Less than 2	Less than 1
Very Soft	Less than 2	Less than 1
Soft	2 - 4	1 - 3
Firm	4 - 8	3 - 6
Stiff	8 - 15	6 - 11
Very Stiff	15 - 30	11 - 21
Hard	Greater than 30	Greater than 21

Teresa Nelson Puckett
Approved by Teresa Nelson Puckett,
P.E. # 44762 01-06-03

STATE PROJECT NO. 16180-3539

ENGINEER OF RECORD:
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	POLK	197533-1-52-01

REPORT OF CORE BORING FOR SIGNAL
SR 25 (US 27) at SR 540 (Cypress Gardens Blvd.)
/Waverly Road

Sheet No.

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