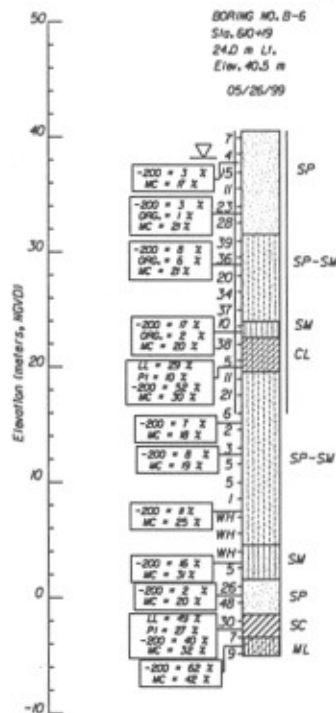
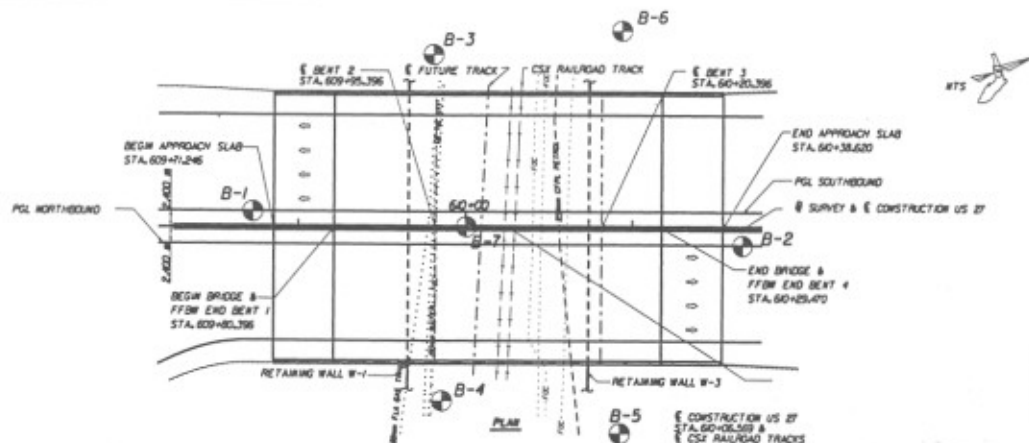


LEGEND

- SP, Poorly graded sands and gravelly sands, little or no fines.
- SC, Clayey sands, sand-clay mixtures.
- SP-SM, Poorly graded sands and gravelly sands, in silty sands, sand-silt mixtures.
- SM, Silty sands, sand-silt mixtures.
- ML, Inorganic silts, very fine sands, rock flour, silty or clayey, fine sands.
- CL, Inorganic clays of high plasticity, fat clays.
- CH, Inorganic clays of low plasticity, gravelly clays, sandy clays, silty clays, lean clays.
- No sample taken

NOTES

1. Numbers to the left of borings indicate SPT values for 300 mm penetration, unless otherwise noted.

2. Casing Used

3. Water Table

4. Boring Location

Type Rig = CMC 75

Hammer Used = Automatic

WH = Weight of Hammer

WT = Weight of Rod

W = EXCESS loss of circulating water (unless otherwise noted).

SOIL

Plasticity = 42,000-23,000 gms/cm

Char-lose = 60 gpm

Sulfates = 24-12 ppm

pH = 7.2-7.0

ENVIRONMENTAL CLASSIFICATION

Substructure = Slightly Aggressive

Superstructure = Slightly Aggressive

BENCHMARK DESCRIPTION AND LOCATION

TP-36, Standard F.D.O.T., concrete monument with brass disc. Under overpass approx. at station 60+80, elev. 41.2 m.

BW-07, Standard F.D.O.T., concrete monument with brass disc. Between US 92 overpass and 11 overpass on West side US 27 at station 60+75, elev. 41.2 m.

QUALITY MATERIALS

	Safety Hammer SPT N-value Blow/300 mm	Automatic Hammer SPT N-value Blow/300 mm
Relative Density		
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

	Safety Hammer SPT N-value Blow/300 mm	Automatic Hammer SPT N-value Blow/300 mm
Consistency		
Very Soft	Less than 2	Less than 1
Soft	2 - 4	1 - 3
Fine	4 - 8	3 - 6
STIFF	8 - 15	6 - 8
Very STIFF	15 - 30	8 - 21
Hard	Greater than 30	Greater than 21

Approved by Teresa Nelson Puckett,
P.E. #44762

REVISIONS				REVISIONS				ENGINEER OF RECORD Teresa Nelson Puckett, P.E. FLA. DEPT. OF TRANSPORTATION MATERIALS OFFICE CONTRACT 1 80 S. Broadway Ave. Tallahassee, Florida 32309-3809 (904) 349-4948	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS		SHEET NO.
Date	By	Description	Date	By	Description	ROAD NO.	COUNTY		FINANCIAL PROJECT NO.					
						25	POLK		197679-1-52-01	SR 25 OVER CSX RAILROAD NEW STRUCTURE NUMBER 160140				
110767901\GEOTECH\10767901b.dwg 8/20/2006 11:04:24 AM										B-22				

- ☒ SP: Highly silty sand and gravelly sand, fine gr. or flint.
 - ☒ SC: Clayey sand, sand-v. clay.
 - ☒ SP-SM: Finely grained sand and gravelly sand, in silty matrix, sand-v. silty matrix.
 - ☒ SM: Silty sand, sand-v. silty matrix.
 - ☒ ML: Marginal silty, very fine sand, fine flour, silty or clayey, fine sand.
 - ☒ CL: Inorganic clay of high plasticity, fat clay.
 - ☒ OL: Inorganic clay of low to medium plasticity, gray clay, silty clay, fat clay, very clayey.
 - ☐ No sample taken
- NOTES: 1. The left of boring indicates SPT values for 300 mm penetration (standard penetration test).

From Fig. = CMC 75
 Number: 1000 = Automatic
 100 = Weight of hammer
 10 = Weight of blow
 100 = 1000 lbs of circulating water (unless otherwise noted, all elevations based on BM + TP-30 (1+34+42+54+6+7) BM (1+3+4+5+6+7)

SOILS
 Relativity: 4200-4500 gms/cm³
 Character: 60 gms
 Surface: 24-40 gms
 Surface: 24-40 gms
 Surface: 24-40 gms

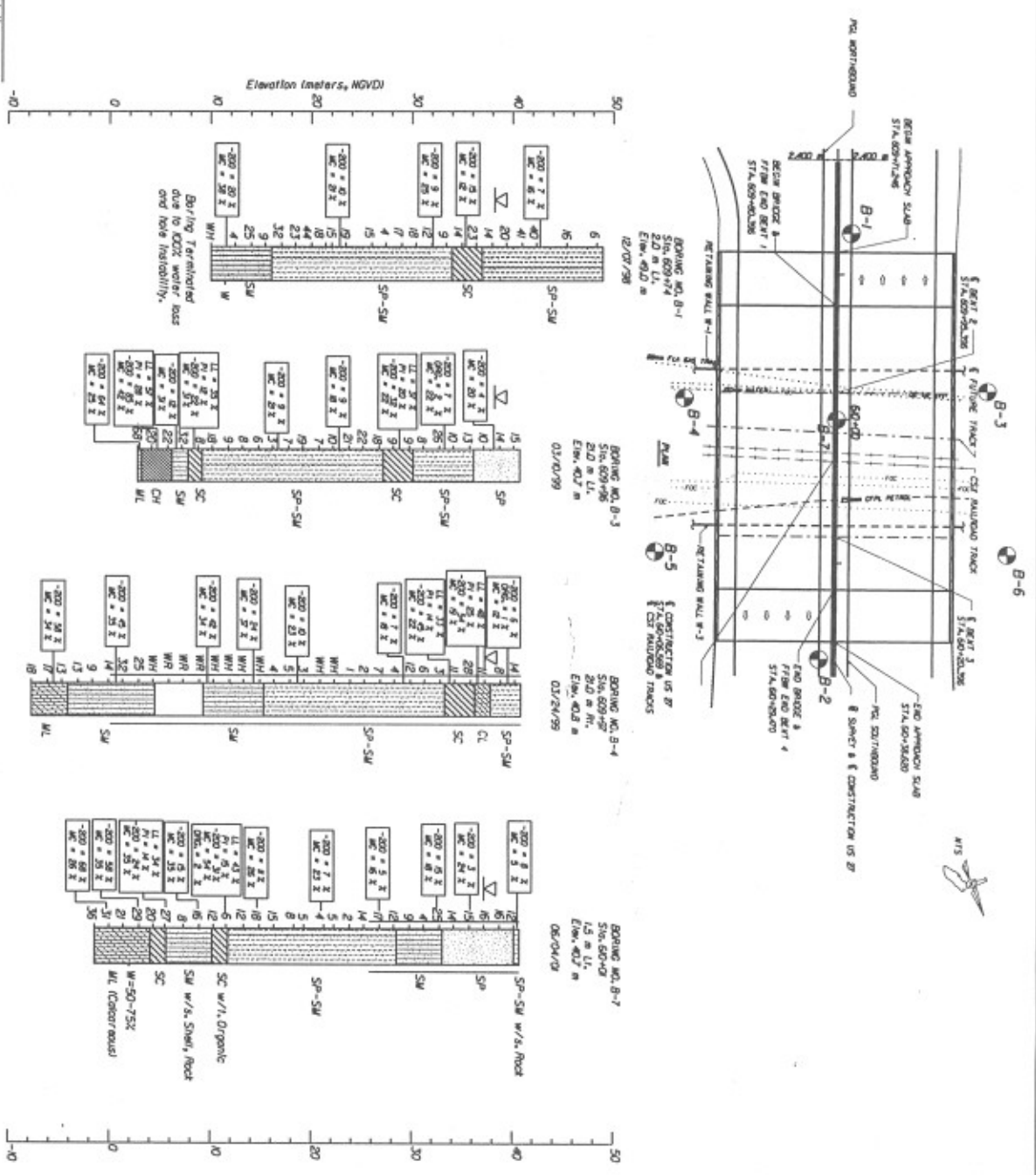
ENVIRONMENTAL CLASSIFICATION
 Substructure: 2 Shallow Aggregate
 Substructure: 2 Shallow Aggregate

DETAILED DESCRIPTION AND LOCATION
 TP-30, Shallow P.A.O., concrete structure with brick elev. lower overpass approach at center (60+10), elev. 42.4.
 Day 87: Shallow P.A.O. concrete structure with brick elev. drainage (15+80) approach at center (60+10), elev. 42.4.
 Day 87: Shallow P.A.O. concrete structure with brick elev. drainage (15+80) approach at center (60+10), elev. 42.4.

GRAVELLY MATERIALS
 Sample Number: 1000
 SPT: 1000
 Relativity: 4200-4500 gms/cm³
 Character: 60 gms
 Surface: 24-40 gms
 Surface: 24-40 gms

SANDS AND CLAYS
 Sample Number: 1000
 SPT: 1000
 Relativity: 4200-4500 gms/cm³
 Character: 60 gms
 Surface: 24-40 gms
 Surface: 24-40 gms

SOILS AND CLAYS
 Sample Number: 1000
 SPT: 1000
 Relativity: 4200-4500 gms/cm³
 Character: 60 gms
 Surface: 24-40 gms
 Surface: 24-40 gms



Elevation (meters, NGVD)

Approximate Soil Boring Position, P.E. #44102

ENGINEER OF RECORD
 TERRY HANSEN PROJECT, P.E.
 TERRY HANSEN PROJECT, P.E.
 TERRY HANSEN PROJECT, P.E.

DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 DIVISION OF HIGHWAYS

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SR 23 OVER CSX RAILROAD
 NEW STRUCTURE NUMBER 1000

SHEET NO. B-21