

# **Addendum 1**

## **Cannon Creek Drainage**

### **2019-3**

Are there any specifications on the sheet pile? **Sheet pile specifications have been added to sheet 28. A copy of the revised sheet is attached.**

Are there any geotechnical reports ? **A soil boring report is provided for a core taken within the retention pond area.**

Can you provide a quantity of gopher tortoise to be mitigated ? **The Gopher Tortoise Survey has not yet been done and the Contractor will be responsible for permitting and relocation. The exact quantity will be determined by the Normandeau Gopher Tortoise Survey, which is scheduled to begin in May. For bidding purposes, assume a quantity of 3.**

Is there a required survival rate on the wetland plants ? Is there a warranty ? **Plant survival shall average at least 90% of the specified planting density with no areas having less than 10% failure of the specified density at 90 days after notification that planting has been completed. All areas that fall below the 90% survival rate shall have new plantings installed to bring the average back to 90% of the specified planting density. The Contractor shall provide field counts for all material delivered to the site with all substitution requests made prior to the commencement of planting. During construction, the Contractor shall provide spot counts of planted material to the extent feasible.**

Can you provide a Specification for the Water Level Measurement Device ? **The hardware shall be a Solinst Levellogger 3001 Model M5 or equivalent from another manufacturer. This would be installed in 2" well screen with a locking cap such as the Solinst Well Cap Assembly, or equivalent from another manufacturer. It would be secured to a post driven into the soil near the edge of the wetland area with a staff gauge installed on the post.**



## Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

**LABORATORIES**

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November 29, 2011

### North Florida Professional Services, Inc.

P.O. Box 3823

Lake City, Florida 32318

Attention: Mr. Chad McCormick, P.E.

Reference: Report of Exploratory Boring  
Cannon Creek Airpark Drainage Improvements  
Lake City, Columbia County, Florida  
Cal-Tech Testing Project No. 11-00398-01

Dear Mr. McCormick:

Cal-Tech Testing, Inc. (CTI) has completed the exploratory auger boring within the storm water management facility at the referenced site. The boring was performed at the approximate global coordinates of 30° 09' 08.25" N and 82° 39' 35.41" W. These coordinates were acquired using a hand-held Global Positioning System (GPS) device manufactured by Garmin (model Dakota® 10). Therefore, the actual boring location should be considered only as accurate as the means and methods by which they were obtained.

In general, the soil profile as disclosed by the auger boring initially consisted of about 6 inches of grayish brown sand with silt and organic (topsoil). This surface cover is underlain by gray to tan sand with silt (SP-SM) to a depth of about 4 feet, reddish brown with gray mottles clayey sand (SC) to a depth of about 7½ feet; and grayish gray with red mottles clay (CH) to boring termination depth of 10 feet.

At the completion of drilling, the groundwater table was not encountered in the auger boring. We note that due to the relatively short time frame of the field exploration and clayey nature of some of the site soils, the groundwater may not have had sufficient time to stabilize. Fluctuation in the groundwater levels should be expected due to seasonal climatic changes, construction activity, rainfall, surface water runoff, and other site-specific factors.

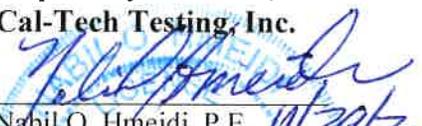
A review of the Columbia County, Florida USDA Soil Survey indicates the majority of the soils within the vicinity of the auger boring to consist of Albany fine sand (Soil Map Unit No. 1) soil map unit. The surface layer of this unit consists of dark grayish brown fine sand to about 9 inches. The surface cover is underlain by about 48 inches of light yellowish brown fine sand, mottled with brown and white; and pale yellow fine sand, mottled with red and white. These soils are underlain by light yellowish brown fine sandy loam, mottled with brown and light gray; and gray sandy clay loam that has strong brown mottles to a depth of about 80 inches or more below the ground surface. The soil survey indicates the apparent<sup>1</sup> high water table in areas underlain by this map unit is at a depth of about 2 feet below the ground surface between the period of December to March. These soils have a hydrologic group C<sup>2</sup> designation.

<sup>1</sup> Thick zone of free water in the soil indicated by the level at which water stands in an uncased borehole after adequate time is allowed for adjustment in the surrounding soils.

<sup>2</sup> Typically, soils assigned Hydrologic Group C have a slow infiltration rate when thoroughly wet, and slow rate of water transmission. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of fine to moderately fine texture.

We appreciate the opportunity to work with you on this project and look forward to serving you on future projects. Should you have any questions concerning this report, please contact our office at 386-755-3633.

Respectfully Submitted,  
**Cal-Tech Testing, Inc.**

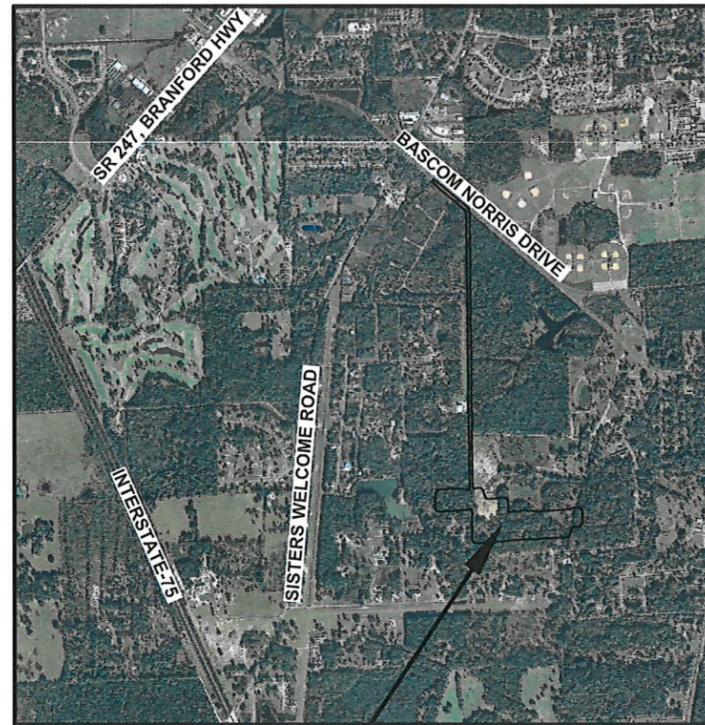
  
Nabil O. Hmeidi, P.E. *11/29/2011*  
Senior Geotechnical Engineer  
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*Addressee (1 original & pdf via e-mail)*

# CANNON CREEK DRAINAGE IMPROVEMENTS PHASE 1 COLUMBIA COUNTY, FL



COLUMBIA  
COUNTY



PROJECT LOCATION

PLANS PREPARED FOR:

COLUMBIA COUNTY BOCC  
135 NE HERNANDO AVENUE SUITE 203  
LAKE CITY, FL 32055  
(386) 758-1005

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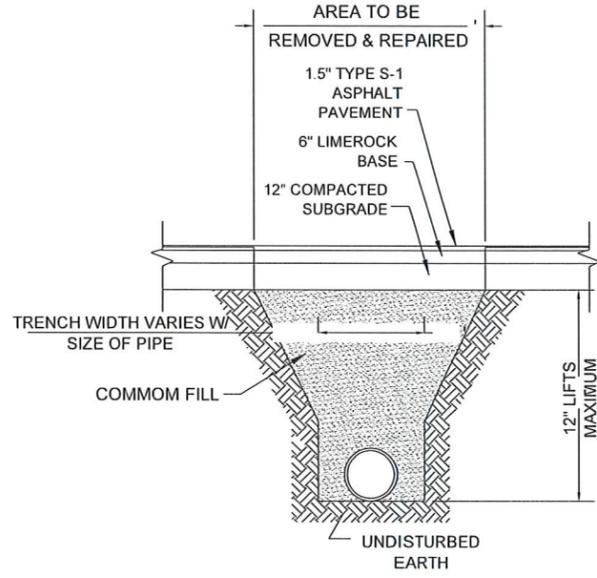


COVER SHEET

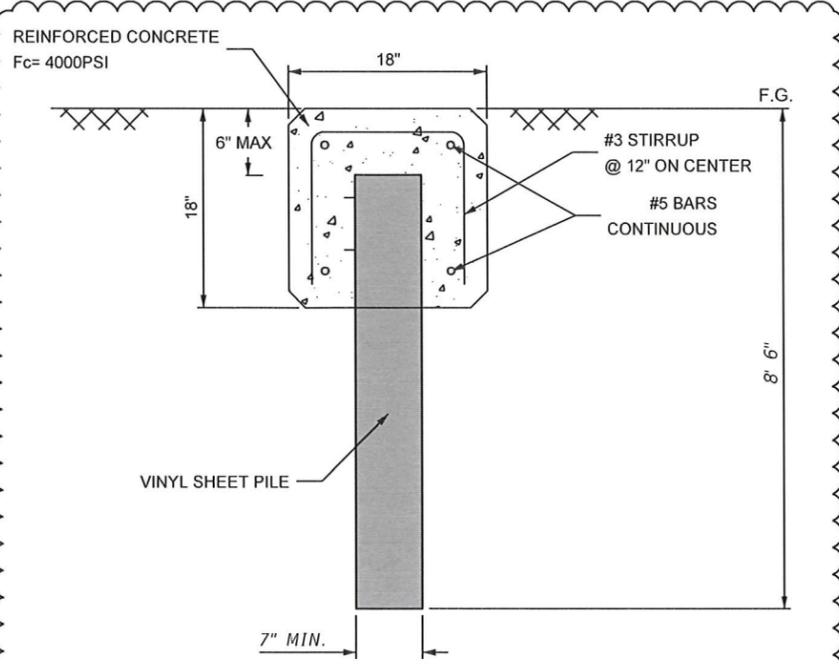
REVISIONS:  
4/8/19 MODIFIED SHEET 28

JOB NUMBER: L100401CCB:A2  
DESIGNED BY: RD  
DRAFTED BY: RD  
CHECKED BY: JP  
ENGINEER OF RECORD:  
JAMES H. PITMAN  
P.E. NO. 42035

DATE: 03/16  
SHEET NO. 1



**1**  
28 **PAVEMENT REPAIR DETAIL**  
SCALE:N.T.S.



VINYL SHEETPILE PROPERTIES		
	AMOUNT	UNIT
STRENGTH RATING	3,129	LBS-FT/FT
ALLOWABLE SHEAR (V)	2,536	LBS/FT
THICKNESS (t)	0.25	INCHES
SECTION MODULUS (Z)	11.40	IN <sup>3</sup> /FT
MOMENT OF INERTIA (I)	39.80	IN <sup>4</sup> /FT
ULTIMATE TENSILE STRESS	6,300	PSI
CREEP LIMITED STRESS	4,000	PSI
MODULUS OF ELASTICITY (E)	380,000	PSI
SECTION DEPTH (MIN.)	7	INCHES

**2**  
28 **SHEETPILE CAP DETAIL**  
SCALE:N.T.S.



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**MISC. DETAILS**  
**CANNON CREEK DRAINAGE IMPROVEMENTS**  
**COLUMBIA COUNTY, FL**

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 4/8/19 ADDENDUM #1  
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