

COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT NUMBER 2013-9
SW Ichetucknee Ave. – Roadway Improvements

NOTICE TO CONTRACTORS

Notice is hereby given that sealed bids will be received in the Columbia County Manager's office until **11:00 A.M.** on **April 19, 2013**, for Columbia County Project No. **2013-9**. This office is located on the second floor of the Courthouse Annex at 135 Hernando Avenue, Room 203 Lake City FL 32055.

This project consists of improving 26,810 LF of SW Ichetucknee Ave. from County Road 238 to County Road 240.

Scope of work includes limerock, widening, mixing existing roadway, grading, asphaltic concrete (structural and surface), driveway improvements, culverts, concrete, erosion control, and incidental items.

The Bid Forms and Construction specifications may be obtained from the County's web site at <http://www.columbiacountyfla.com/PurchasingBids.asp>. Deadline for questions regarding specifications and/or bid documents must be received before **11:00 A.M.** on **April 17, 2013**.

The successful bidder will be required to furnish a 5% bid bond with bid submittal, and if selected, furnish the County Manager with a performance bond, and proof liability insurance prior to commencing work.

The Columbia County Commission reserves the right to reject any or all bids and to add to the contract or delete from the contract to stay within their funding capabilities.

Columbia County Board of County Commissioners

Stephen E. Bailey, Chair

**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT NUMBER 2013-9
SW Ichetucknee Ave. – Roadway Improvements**

BID PROPOSAL

THE UNDERSIGNED hereby propose to furnish all materials, labor, and supervision for the construction of the subject project including conformance with the construction requirements and specifications for the following unit prices:

	ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	Mobilization	LS	1		
2	Maintenance of Traffic	LS	1		
3	Subsoil Excavation	CY	500		
4	Limerock Material, 4" Loose Measure	CY	6,355		
5	Mixing Existing Pavement, 12" Depth	SY	59,578		
6	Grading and Finishing Mixed Base	LS	1		
7	Asphaltic Concrete SP 12.5(Structural) (1 1/2")	TN	5406		
8	Asphaltic Concrete SP 9.5(Surface) (1 1/4")	TN	4425		
9	Shoulder Rework	LS	1		
10	Sod Strip 42"	SY	20,853		
11	Seed and Mulch	LS	1		
12	Staked Silt Fence	LF	500		
13	Borrow Material	CY	2000		
14	Intersections and Driveways	SY	2780		
15	Pavement Markings	LS	1		
16	Corrograted Metal Pipe, Side Drain, (18" x 40')	EA	11		
17	Mitered End Section, 18"	EA	60		

TOTAL

- 1 Item 2 includes all elements required for MOT and includes temporary centerline delineation
- 2 Item 4 shall include 4 inches limerock (loose measure) and placement before mixing begins with a mechanical spreader.
- 3 Average depth of item 5 shall be 12”(see attached geotechnical report)
- 4 Item 6 includes trenching (1’3” each side), mixing, shaping, compacting, finishing, and priming for placement of asphalt
- 5 Average spread rate of item 7 shall be 165 lb/sy.
- 6 Average spread rate of item 8 shall be 135 lb/sy.
- 7 Item 9 shall include scarifying/mixing shoulder.
- 8 Item 11 includes all areas disturbed not sodded.
- 9 Item 12 shall be placed at all areas of potential stormwater runoff as directed by the Engineer
- 10 Item 14 shall include 6”of limerock base and 1 1/2” of SP 12.5 asphaltic concrete. Driveways are estimated 56 @ 40 sy and intersections are estimated at 9 @ 60 sy.
- 11 Item 15 shall include stop bars and centerline/edgeline striping (2 coats each)
- 12 Item 16, pipe lengths include mitered ends
- 13 All items may be increased, decreased, or omitted as directed by the Engineer.

All materials and construction shall conform to both the requirements of the latest FDOT Standard Specifications for Road and Bridge Construction and the latest FDOT Design Standards.

**ALL INCIDENTAL WORK INCLUDED IN THESE ITEMS
ALL UNIT PRICE AND TOTAL SPACES MUST BE FILLED IN TO CORRELATE WITH EACH ITEM**

FIRM _____ (Seal)

BY _____
President

ATTEST _____

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General Requirements

I. General.

Project consists of mixing and widening existing 18' roadway to 22' for a distance of +/- 5.08 miles. The new 22' roadway will be reconstructed in two lifts. The existing pavement is limerock base and asphaltic concrete. Pavement cores are attached for general information.

II. Contract Time

The contract time shall be 120 days from the date of contract execution. The contractor will be required to return executed contract to Ray Hill, Columbia County purchasing director, within 30 days of Board approval. Time can be extended by mutual agreement of both parties. Liquidated damages shall be \$300.00 per day. No work is allowed on Saturdays, Sundays, and/or County designated holidays

III. Construction and Materials

All construction methods and materials shall conform to the requirements of the latest edition of the Florida Department of Transportation Design Standards and Florida Department of Transportation Standard Specifications for Road and Bridge Construction

IV. Roadway Construction Requirements

Install Silt Fence as directed by Engineer prior to any earthwork activities.

Scarify/Mix existing shoulders

Excavate trench, 8" depth, sufficient to provide for base 11feet – 3 inch wide from centerline of roadway (Total of 22 feet – 6 inches).

Remove pavement in excess of 2 inch graduation from windrow to windrow.

Add ±4 inches of limerock (loose measure) across one lane of existing pavement with a mechanical spreader, mix 12 inch minimum depth (milling machine required) and spread uniformly to provide 11 feet – 3 inch wide base from centerline of roadway. Material sample will be required at 1000 foot intervals to establish proctor for density test. Contractor shall shape and compact mixed materials to obtain 98% density. Two percent (2%) cross slope required. Trenching, mixing, and compaction shall be limited to one day work capability.

CENTERLINE DELINEATION SHALL BE REQUIRED AT ALL NON-WORKING TIMES.

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Repeat process for adjacent travel lane.

Provide finished base surface and prime coat.

Place asphaltic concrete (SP 12.5 at 165 pounds per square yard) to provide 22 feet roadway surface.

Paint centerline

Install culverts

Provide 6" thick limerock base and asphaltic concrete surface (165 pounds per square yard) for all County intersections and private drives. Intersections are estimated 9 and at 60 SY each. Driveways are estimated at 56 and 40 SY each.

Place borrow material and final dress shoulders. Place 42" wide sod strip (Bermuda) along pavement edge. Seed and mulch remainder of disturbed area.

Place asphaltic surface course (SP 9.5, 135 pounds per square yard) to provide 22 foot wide driving surface.

Paint centerline, edge lines and stop bars at all paved intersections. Two applications are required.

V. Maintenance of Traffic

Contractor shall provide Maintenance of Traffic and it shall conform to the requirements of the latest edition of the Florida Department of Transportation Design Standards.

Flagging will be required and only one traffic lane may be closed between the hours of 8:30 A.M. to 4:30 P.M. only.

All construction signage shall be provided by the contractor.

CENTERLINE DELINEATION SHALL BE REQUIRED AT ALL NON-WORKING TIMES.

VI. Compensation

Payment shall be made on a monthly basis on work completed with 10% retainage.

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Purchasing Department – General Instructions to Bidders

These instructions will bind bidders and conditions herein set forth, except as specifically qualified in special bid and contract terms issued with any individual bid.

1. The following criteria are used in determining low responsible bidder:
 - A. The ability, capacity and skill of bidder to perform required service.
 - B. Whether the bidder can perform service promptly or within specified time.
 - C. The character, integrity, reputation, judgment, experience and efficiency of bidder.
 - D. The performance of previous contracts with Columbia County.
 - E. The suitability of equipment or material or county use.
 - F. The ability of bidder to provide future maintenance
2. Payment Terms are net (30) unless otherwise specified. Favorable terms, discounts, may be offered and will be considered in determining low bids if they are deemed by Purchasing Department to be advantageous to the County.
3. All bids should be tabulated, totaled and checked for accuracy. All blanks on Bid Proposal sheet shall be filled in and unit price will prevail in case of errors.
4. All requested information shall be included in the envelope. All desired information must be included for your bid to receive full consideration.
5. If anything on the bid request is not clear, you should contact the Purchasing Director immediately.
6. A bidders list is available at the Purchasing Office.
7. Quote all prices F.O.B. our warehouse or as specified in bid documents.
8. Each proposal shall be clearly marked on the outside of the envelope including Fed Ex, UPS or other delivery service envelopes, as a sealed bid. The name of the item being bid shall be shown on the outside in full.
9. No responsibility shall attach to any County representative or employee for the premature opening of bids not properly addressed or identified.
10. If only one (1) bid is received, the bid may be rejected and re-advertised or excepted if determined to be in the counties best interest.
11. Bids received late will not be accepted, and the County will not be responsible for late mail delivery.
12. Telephone and facsimile bids will not be acceptable in formal bid openings (sealed bids).

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Should a bid be misplaced by the County and found later, it will be considered. Any bidder may request and shall receive a receipt showing the day and time any bid is delivered to the appropriate office of the County from the personnel thereof.

13. Bids requiring bid bonds will not be accepted if bond is not enclosed. Cash or certified check will be accepted in lieu of bond except on construction projects where cost exceeds \$40,000.
14. All bidders must be recognized dealers in the materials or equipment specified and is qualified to advise in their application or use. A bidder at any time requested must satisfy the Purchasing Office and the County Manager that he has the requisite organization, capital, plant, stock ability and experience to satisfactorily execute the contract in accordance with the provisions of the contract in which he is interested.
15. Any alterations, erasures, additions, or admissions of required information or any changes to specifications or bidding schedule are done at the risk of the bidder. Any bid will be rejected that has a substantial variation, that is; a variation that affects price, quantity, and quality or delivery date (when delivery is required by a specific time).
16. When requested, samples will be furnished to the County free of expense, properly marked for identification and accompanied by a list where there is more than one (1) sample. The County reserves the right to mutilate or destroy any sample submitted whenever it may be to the best interest of the County to do so for the purpose of testing.
17. The County will reject any material, supplies or equipment that did not meet the specifications, even though the bidder lists the trade names or names of such material on the bid or price quotation form.
18. The unauthorized use of patented articles is done entirely at the risk of the successful bidder.
19. The ESTIMATED QUANTITY given in the specifications or advertisements is for the purpose of bidding only. The County may purchase more or less than the estimated quantity and the vendor must not assume that such estimated quantity is part of the contract.
20. Only the latest model equipment as evidenced by the manufacture's current published literature will be considered. Obsolete models of equipment not in production will not be acceptable. The equipment shall be composed of new parts and materials. Any unit containing used parts or having seen any service other than the necessary tests will be rejected. In addition to the equipment specifically called for in the specification, all equipment catalogued by the manufacturer as standard or required by the State of Florida shall be furnished with the equipment. Where required by the State of Florida Motor Vehicle Code, vehicles shall be inspected and bear the latest inspection sticker of the Florida Department of Revenue.

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21. Prospective bidders are required to examine the location of the proposed work or delivery and determine, in their own way, the difficulties, which are likely to be encountered in the prosecution of the same.
22. All materials, equipment and supplies shall be subject to rigid inspection, under the immediate supervision of the Purchasing Department, its designee and /or the department to which they are delivered. If defective material, equipment, or supplies are discovered, the contractor, upon being instructed by the Purchasing Department or designee, shall remove, or make good such material, equipment, or supplies without extra compensation. It is expressly understood and agreed that the inspection of materials by the County will in no way lessen the responsibility of the Contractor release him from his obligation to perform and deliver to the County Sound and satisfactory materials, equipment, or supplies. The Contractor agrees to pay the costs of all tests upon defective material, equipment, or supplies or allow the costs to be deducted from any monies due him from the County.
23. Unless otherwise specified by the Purchasing Department all materials, supplies, or equipment quoted herein must be delivered within thirty (30) days from the day of notification or exceptions noted on bid sheets.
24. A contract will not be awarded to any corporation, firm, or individual who is, from any cause, in arrears to the County or who has failed in former contracts with the County to perform work satisfactorily, either to the character of the work, the fulfillment or guarantee, or the time consumed in completing the work.
25. Reasonable grounds for supposing that any bidder is interested in more than one proposal for the same item will be considered sufficient cause for rejection of all proposals in which he is interested.
26. Submitting a proposal when the bidder intends to sublet the contract may be a cause for rejection of bids or cancellation of the contract by the County Manager.
27. Unless otherwise specified the County reserves the right to award each items separately or on a lump sum basis whichever is in the best interest of the County.
28. The County reserves the right to reject any and/or all quotations, to waive any minor discrepancies in the bids for all bidders equally, quotations, or specifications, when deemed to be in the best interest of the County and also to purchase any part, all or none of the materials, supplies, or equipment specified.
29. Failure of the bidder to sign the bid or have the signature of an authorized representative or agent on the bid proposal in the space provided will be cause for rejection of the bid. Signature must be written in ink. Typewritten or printed signatures will not be acceptable.
30. Any bidder may withdraw his bid at any time before the time set for the opening of the

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bids. No bid may be withdrawn in the thirty- (30) day period after bids are opened.

31. It is mutually understood and agreed that if at any time the Purchasing Department or designee shall be of the opinion that the contract or any part thereof is unnecessarily delayed or that the rate of progress or delivery is unsatisfactory, or that the contractor is willfully violating any of the conditions or covenants of the agreement, or executing the same in bad faith, the Purchasing Department or his designee shall have the power to notify the aforesaid contractor of the nature of the complaint. Notification shall constitute delivery of notice, or letter to address given in the proposal. If after three (3) working days of notification the conditions are not corrected to the satisfaction of the Purchasing Director, he shall thereupon have the power to take whatever action he may deem necessary to complete the work or delivery herein described, or any part thereof, and the expense thereof, so charged, shall be deducted from any paid by the County out of such monies as may become due to the said contractor, under and by virtue of this agreement. In case such expense shall exceed the last said sum, then and in that event, the bondsman or the contractor, his executors, administrators, successors, or assigns, shall pay the amounts of such excess to the County on notice made by the Purchasing Department or his designee of the excess due.
32. If the bidder proposes to furnish any item of foreign make or product, he shall write "foreign" together with the name of the originating country opposite such item on a proposal.
33. Any complaint from bidders relative to the invitation to bid or attached specifications shall be made prior to the time of opening bids; otherwise, the bidder waives any such complaint.
34. Contracts may be cancelled by the County with or without cause on thirty- (30) days advance written notice.
35. All contractors submitting bids for road projects in excess of \$150,000 must be pre-qualified with the Florida Department of Transportation and shall provide proof of such qualification upon request.
36. Any bidder affected adversely by an intended decision with respect to the award of any bid, shall file with the Purchasing Department for Columbia County, a written notice of intent to file a protest not later than seventy-two (72) hours (excluding Saturdays, Sundays and legal holidays), after the posting of the bid tabulation. Protest procedures may be obtained in the Purchasing Department.
37. A person or affiliate who has been placed on the convicted vendor's list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to Columbia County, may not submit a bid on a contract with Columbia County for the construction or repair of a public building or public work, may not submit

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bids on leases of real property to Columbia County, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with Columbia County, and may not transact business with Columbia County for a period of 36 months from the date of being placed on the convicted vendor list.

38. Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;
 - A. all persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and
 - B. all persons, including subcontractors, assigned by the Vendor/Contractor to perform work is pursuant to the contract with the County.
39. Contractor shall register online at <http://www.columbiacountyfla.com/PurchasingBids.asp> for this specific project. All addendums are delivered via email through this website, and it is the contractor's responsibility to ensure all addendums are used in the bid submittal.
40. Any existing materials demolished within county right of way may be retained by Columbia County.



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

P.O. Box 1625 • Lake City, FL 32056

Tel. (386) 755-3633 • Fax (386) 752-5456

450 SR 13N, Suite 106-308, Jacksonville, FL 32259

Tel. (904) 381-8901 • Fax (904) 381-8902

LABORATORIES

October 10, 2012

Columbia County Board of County Commissioners

P.O. Box 969

Lake City, Florida 32056

Attention: Mr. Ken Sweet

Reference: Asphalt Cores & Exploratory Borings
Ichetucknee Avenue, Columbia County, Florida
Cal-Tech Project No. 12-00369-01

Dear Mr. Sweet:

Cal-Tech Testing, Inc. (CTI) has completed the asphalt cores and exploratory borings at the referenced site. The attached asphalt and boring logs were performed at locations selected by you at the time of drilling.

We appreciate the opportunity to be of service on this project and look forward to serving you for the remainder of this and future projects. Should you have any questions concerning this correspondence, please contact our office at 386-755-3633.

Respectfully submitted,

Cal-Tech Testing, Inc.

Nabil O. Hmeidi, P.E.
Senior Geotechnical Engineer
Licensed Florida No. 57842





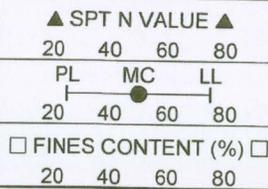
Cal-Tech Testing, Inc.
 P.O. Box 1625
 Lake City, Florida 32024
 Telephone: 386-755-3633
 Fax: 386-752-5456

BORING NUMBER B-1

PAGE 1 OF 1

CLIENT Columbia County Board of County Commissioners PROJECT NAME Ichetucknee Avenue
 PROJECT NUMBER 12-00369-01 PROJECT LOCATION Ichetucknee Avenue, Columbia County, Florida
 DATE STARTED 10/08/12 COMPLETED 10/08/12 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD Continuous Flight Auger/Split Spoon AT TIME OF DRILLING ---
 LOGGED BY N.H. CHECKED BY _____ ▼ AT END OF DRILLING 12.00 ft
 NOTES SIMCO 2800 (Manual Hammer) AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲					
								20	40	60	80		
0		6" Asphaltic Concrete over 17" Limerock Base											
		Gray, sand with silt (SP-SM) and some rock fragments (POSSIBLE STABILIZED SUBGRADE)	SPT 1	100	0-0-3 (3)								
		LOOSE, gray, sand with silt (SP-SM)	SPT 2	100	3-2-2 (4)								
5			SPT 3	100	2-4-5 (9)								
			SPT 4	100	3-2-2 (4)								
			SPT 5	100	2-2-3 (5)								
		FIRM, dark gray to black, organic clay (OL)	SPT 6	100	3-2-3 (5)								
10		VERY LOOSE, gray, sand with silt (SP-SM)	SPT 7	100	1-1-2 (3)								
		FIRM, dark gray to black, organic clay (OL)	SPT 8	100	3-3-4 (7)								
		MEDIUM DENSE, gray, sand (SP) with trace of silt	SPT 9	100	8-10-12 (22)								



29.99624° N, 82.76446° W, 5 feet Rt. of CL
 Bottom of borehole at 15.0 feet.

GEOTECH BH PLOTS - GINT STD US LAB.GDT - 10/09/12 16:45 - P:\2012\112-00369-01\112-00369-01 LOGS.GPJ



Cal-Tech Testing, Inc.
 P.O. Box 1625
 Lake City, Florida 32024
 Telephone: 386-755-3633
 Fax: 386-752-5456

BORING NUMBER B-2

PAGE 1 OF 1

CLIENT Columbia County Board of County Commissioners PROJECT NAME Ichetucknee Avenue
 PROJECT NUMBER 12-00369-01 PROJECT LOCATION Ichetucknee Avenue, Columbia County, Florida
 DATE STARTED 10/08/12 COMPLETED 10/08/12 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD Continuous Flight Auger/Split Spoon AT TIME OF DRILLING ---
 LOGGED BY N.H. CHECKED BY _____ AT END OF DRILLING --- Not Encountered
 NOTES SIMCO 2800 (Manual Hammer) AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲						
								20	40	60	80			
0		5.5" Asphaltic Concrete over 32" Limerock Base	AU 1	100										
		LOOSE to MEDIUM DENSE, gray, sand with silt (SP-SM)	SPT 2	100	8									
			SPT 3	100	10-9-6 (15)									
			SPT 4	100	4-7-12 (19)									
			DENSE, cream to white, decomposed limestone	SPT 5	100	20-19-10 (29)								
				SPT 6	100	13-13-35 (48)								
10														

29.99624° N, 82.76446° W, 6 feet Lt. of CL
 Bottom of borehole at 10.0 feet.

GEOTECH BH PLOTS - GINT STD US LAB.GDT - 10/09/12 16:45 - P:\2012\12-00369-01\12-00369-01 LOGS.GPJ



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BORING NUMBER B-3

PAGE 1 OF 1

CLIENT <u>Columbia County Board of County Commissioners</u>	PROJECT NAME <u>Ichetucknee Avenue</u>
PROJECT NUMBER <u>12-00369-01</u>	PROJECT LOCATION <u>Ichetucknee Avenue, Columbia County, Florida</u>
DATE STARTED <u>10/08/12</u> COMPLETED <u>10/08/12</u>	GROUND ELEVATION _____ HOLE SIZE _____
DRILLING CONTRACTOR <u>Cal-Tech Testing, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Continuous Flight Auger/Split Spoon</u>	AT TIME OF DRILLING ---
LOGGED BY <u>N.H.</u> CHECKED BY _____	AT END OF DRILLING --- Not Encountered
NOTES <u>SIMCO 2800 (Manual Hammer)</u>	AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲					
								20	40	60	80		
0		4" Asphaltic Concrete over 45" Limerock Base	AU 1	100									
5		Gray, sand with silt (SP-SM) and some rock fragments (POSSIBLE STABILIZED SUBGRADE)	SPT 3	100	3-2-2 (4)								
		LOOSE, grayish brown, sand with silt (SP-SM)	SPT 4	100	3-5-5 (10)								
		MEDIUM DENSE, brown, sand with clay (SP-SC)	SPT 5	100	5-4-7 (11)								
10		MEDIUM DENSE, cream to white, decomposed limestone	SPT 6	100	9-10-12 (22)								

29.99866° N, 82.76450° W, 5 feet Rt. of CL
 Bottom of borehole at 10.0 feet.

GEOTECH BH PLOTS - GINT STD US LAB.GDT - 10/09/12 16:45 - P:\2012\12-00369-01\12-00369-01 LOGS.GPJ



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BORING NUMBER B-4

PAGE 1 OF 1

CLIENT Columbia County Board of County Commissioners PROJECT NAME Ichetucknee Avenue
 PROJECT NUMBER 12-00369-01 PROJECT LOCATION Ichetucknee Avenue, Columbia County, Florida
 DATE STARTED 10/08/12 COMPLETED 10/08/12 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD Continuous Flight Auger/Split Spoon AT TIME OF DRILLING ---
 LOGGED BY N.H. CHECKED BY _____ AT END OF DRILLING --- Not Encountered
 NOTES SIMCO 2800 (Manual Hammer) AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲			
								20	40	60	80
0		2.5" Asphaltic Concrete over 72" Limerock Base						PL _____ MC _____ LL _____ 20 40 60 80			
5		MEDIUM DENSE, brown to tan, clayey sand (SC)	AU 1	100				<input type="checkbox"/> FINES CONTENT (%) <input type="checkbox"/> 20 40 60 80			
			SPT 5	100	10-8-5 (13)			▲			
			SPT 6	100	6-6-5 (11)			▲			

30.00440° N, 82.76374° W, 5 feet Rt. of CL.
 Bottom of borehole at 10.0 feet.



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BORING NUMBER B-5

PAGE 1 OF 1

CLIENT Columbia County Board of County Commissioners PROJECT NAME Ichetucknee Avenue
 PROJECT NUMBER 12-00369-01 PROJECT LOCATION Ichetucknee Avenue, Columbia County, Florida
 DATE STARTED 10/08/12 COMPLETED 10/08/12 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD Continuous Flight Auger/Split Spoon AT TIME OF DRILLING ---
 LOGGED BY N.H. CHECKED BY _____ AT END OF DRILLING --- Not Encountered
 NOTES SIMCO 2800 (Manual Hammer) AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲					
								20	40	60	80		
0								PL _____ MC _____ LL _____ 20 40 60 80 <input type="checkbox"/> FINES CONTENT (%) <input type="checkbox"/> 20 40 60 80					
		1.5" Asphaltic Concrete over 4" Limerock Base	AU 1	100									
		Gray, sand with silt (SP-SM)	AU 2	100									
		Gray, sand (SP) with trace of silt	AU 3	100									
5			AU 4	100									

30.00816° N, 82.76207° W
 Bottom of borehole at 5.0 feet.



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BORING NUMBER B-6

CLIENT Columbia County Board of County Commissioners PROJECT NAME Ichetucknee Avenue
 PROJECT NUMBER 12-00369-01 PROJECT LOCATION Ichetucknee Avenue, Columbia County, Florida
 DATE STARTED 10/08/12 COMPLETED 10/08/12 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD Continuous Flight Auger/Split Spoon AT TIME OF DRILLING ---
 LOGGED BY N.H. CHECKED BY _____ AT END OF DRILLING --- Not Encountered
 NOTES SIMCO 2800 (Manual Hammer) AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲						
								20	40	60	80			
								PL _____ MC _____ LL _____ 20 40 60 80						
								<input type="checkbox"/> FINES CONTENT (%) <input type="checkbox"/> 20 40 60 80						
0		1.5" Asphaltic Concrete over 6.5" Limerock Base												
		MEDIUM DENSE, gray, sand with silt (SP-SM)	SPT 1	100	7-9 (16)									
		MEDIUM DENSE, gray, sand (SP) with trace of silt	SPT 2	100	9-8-7 (15)									
5		LOOSE to MEDIUM DENSE, yellowish tan, clayey sand (SC)	SPT 3	100	5-3-4 (7)									
			SPT 4	100	4-4-5 (9)									
			SPT 5	100	7-6-8 (14)									
10			SPT 6	100	9-9-10 (19)									

30.01632° N, 82.76052° W, 7 feet Lt. of CL
 Bottom of borehole at 10.0 feet.

GEOTECH BH PLOTS - GINT STD US LAB GDT - 10/09/12 16:45 - P:\2012\12-00369-01\12-00369-01 LOGS.GPJ



Cal-Tech Testing, Inc.
 P.O. Box 1625
 Lake City, Florida 32024
 Telephone: 386-755-3633
 Fax: 386-752-5456

BORING NUMBER B-7

PAGE 1 OF 1

CLIENT Columbia County Board of County Commissioners PROJECT NAME Ichetucknee Avenue
 PROJECT NUMBER 12-00369-01 PROJECT LOCATION Ichetucknee Avenue, Columbia County, Florida
 DATE STARTED 10/08/12 COMPLETED 10/08/12 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD Continuous Flight Auger/Split Spoon AT TIME OF DRILLING ---
 LOGGED BY N.H. CHECKED BY _____ AT END OF DRILLING --- Not Encountered
 NOTES SIMCO 2800 (Manual Hammer) AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲						
								20	40	60	80			
0		1.5" Asphaltic Concrete over 4.5" Limerock Base												
		Gray, sand with silt (SP-SM) and some rock fragments (POSSIBLE STABILIZED SUBGRADE)	SPT 1	100	5-14-14 (28)									
		MEDIUM DENSE, gray, sand (SP) with trace of silt	SPT 2	100	12-10-5 (15)									
5		FIRM to VERY STIFF, gray with reddish brown mottles, sandy clay (CL)	SPT 3	100	4-4-4 (8)									
		MEDIUM DENSE, cream to white, decomposed limestone	SPT 4	100	6-5-5 (10)									
			SPT 5	100	8-5-4 (9)									
10			SPT 6	100	2-7-13 (20)									

30.02569° N, 82.76060° W, 5 feet Rt. of CL
 Bottom of borehole at 10.0 feet.

GEO TECH BH PLOTS - GINT STD US LAB.GDT - 10/09/12 16:45 - P:\2012\12-00369-01\12-00369-01 LOGS.GPJ



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BORING NUMBER B-9

PAGE 1 OF 1

CLIENT Columbia County Board of County Commissioners PROJECT NAME Ichetucknee Avenue
 PROJECT NUMBER 12-00369-01 PROJECT LOCATION Ichetucknee Avenue, Columbia County, Florida
 DATE STARTED 10/08/12 COMPLETED 10/08/12 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD Continuous Flight Auger/Split Spoon AT TIME OF DRILLING ---
 LOGGED BY N.H. CHECKED BY _____ AT END OF DRILLING --- Not Encountered
 NOTES SIMCO 2800 (Manual Hammer) AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲					
								20	40	60	80		
								PL MC LL 20 40 60 80					
								□ FINES CONTENT (%) □					
								20 40 60 80					
0		1.5" Asphaltic Concrete over 7" Limerock Base											
		MEDIUM DENSE to LOOSE, gray to reddish tan, sand with silt (SP-SM)	SPT 1	100	8-9-8 (17)								
			SPT 2	100	7-5-4 (9)								
5		SOFT to STIFF, brown with red mottles, sandy clay (CL)	SPT 3	100	3-2-2 (4)								
			SPT 4	100	4-2-3 (5)								
			SPT 5	100	3-4-5 (9)								
		MEDIUM DENSE, yellowish tan and gray, mottled, clayey sand (SC)	SPT 6	100	6-6-7 (13)								
10													

30.03717° N, 82.76073° W, 4 feet Rt. of CL
 Bottom of borehole at 10.0 feet.

GEO TECH BH PLOTS - GINT STD US LAB.GDT - 10/09/12 16:45 - P.1201212-00369-0112-00369-01 LOGS.GPJ



Cal-Tech Testing, Inc.

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- Geotechnical
- Environmental

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450 State Rd. 13 N., Suite 106, # 308 • Jacksonville, FL 32259 • Tel: (904)381-8901 Fax: (904)381-8902

LABORATORIES

Project:	Old Itchetucknee Road									
Client:	Columbia County Board of County Commissioners									
Report To:	Columbia County Board of County Commissioners									
Client Contract No.:	N/A				Cal-Tech Job No.:	12-00369				
Date:	10/9/2012				Inspectors:	Chad Day				
Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
1	10+00	R1	6.0	10.0	4.0	---	---	---	6.5	---
2	20+00	L1	8.0	10.0	3.75	---	---	---	Note 1	---
3	30+00	R1	7.5	10.0	4.25	---	---	---	6.75	---
Remarks:	Lime Rock Base Material Note 1: Refer to lane R1 for lane L1 thickness measurements.									
Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
4	40+00	L1	5.0	10.0	4.0	---	---	---	Note 1	---
5	50+00	R1	4.0	10.0	4.0	---	---	---	6.0	---
6	60+00	L1	9.0	10.0	3.25	---	---	---	Note 1	---
Remarks:	Lime Rock Base Material Note 1: Refer to lane R1 for lane L1 thickness measurements.									
Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
7	70+00	R1	8.0	10.0	4.5	---	---	---	11.5	---
8	80+00	L1	5.0	10.0	1.25	---	---	---	Note 1	---
9	90+00	R1	2.5	10.0	1.0	---	---	---	6.0	---
Remarks:	Lime Rock Base Material Note 1: Refer to lane R1 for lane L1 thickness measurements.									
Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
10	100+00	L1	6.0	10.0	1.5	---	---	---	Note 1	---
11	110+00	R1	6.5	10.0	1.5	---	---	---	7.0	---
12	120+00	L1	1.0	10.0	1.5	---	---	---	Note 1	---
Remarks:	Lime Rock Base Material Note 1: Refer to lane R1 for lane L1 thickness measurements.									

Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
13	130+00	R1	5.0	10.0	1.5	---	---	---	10.5	---
14	140+00	L1	8.0	10.0	1.5	---	---	---	Note 1	---
-15	150+00	R1	7.5	10.0	1.5	---	---	---	5.0	---

Remarks: Lime Rock Base Material Note 1: Refer to lane R1 for lane L1 thickness measurements.

Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
16	160+00	L1	4.5	10.0	1.25	---	---	---	Note 1	---
17	170+00	R1	1.5	10.0	1.25	---	---	---	6.0	---
18	180+00	L1	6.5	10.0	1.25	---	---	---	Note 1	---

Remarks: Lime Rock Base Material Note 1: Refer to lane R1 for lane L1 thickness measurements.

Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
19	191+00	R1	5.5	10.0	1.5	---	---	---	5.5	---
20	200+00	L1	9.0	10.0	1.5	---	---	---	Note 1	---
21	210+00	R1	5.0	10.0	1.5	---	---	---	6.0	---

Remarks: Lime Rock Base Material Note 1: Refer to lane R1 for lane L1 thickness measurements.

Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
22	220+00	L1	3.5	10.0	1.25	---	---	---	Note 1	---
23	230+00	R1	4.0	10.0	2.5	---	---	---	5.0	---
24	240+00	L1	4.5	10.0	1.5	---	---	---	Note 1	---

Remarks: Lime Rock Base Material Note 1: Refer to lane R1 for lane L1 thickness measurements. Core number 23 was taken in an overlay area.

Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
25	250+00	R1	8.0	10.0	1.5	---	---	---	10.5	---
26	260+00	L1	7.5	10.0	1.5	---	---	---	Note 1	---
27	268+00	R1	6.0	10.0	1.25	---	---	---	5.0	---

Remarks: Lime Rock Base Material Note 1: Refer to lane R1 for lane L1 thickness measurements.