

COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT NUMBER 2012-7
Lake City Country Club – Pavement Rehabilitation and Resurfacing

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 **October 17, 2012**, for Columbia County Project No. **2012-7**. 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 full depth reclamation of existing asphalt surface and limerock base, and asphalt pavement of approximately 6810 LF of asphalt roadway located in the Lake City Country Club. Roads included are:

- NW Frontier Drive – 4450 LF
- NW Otter Court – 900 LF
- NW Mallard Place – 850 LF
- NW Wiregrass Court – 180 LF
- NW Broomsage Court – 180 LF
- NW Heron Glen – 250 LF

Scope of work includes full depth reclamation, asphaltic concrete pavement, 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>.

The successful bidder will be required to furnish the County Manager with a performance bond and 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

Scarlet Frisina, Chair

**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT NUMBER 2012-7
Lake City Country Club – Pavement Rehabilitation and Resurfacing**

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	Full Depth Reclamation	SY	15000		
4	Asphaltic Concrete (SP 9.5, Virgin Mix)	TN	906		
5	Staked Silt Fence	LF	600		
6	Pavement Markings	LS	1		
				TOTAL =	

- 1 Items 3,4, and 5 may be increased, decreased, or omitted as directed by the Engineer
- 2 Item 5 shall be placed at all areas of potential stormwater runoff as directed by the Engineer
- 3 Average depth of Item 3 shall be 8 inches (see attached geotechnical report)
- 4 Average thickness of Item 4 shall be 1.5 inches
- 5 Item 6 shall include 2 coats

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 _____

BY _____ **(Seal)**
President

ATTEST _____

COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT NUMBER 2012-7
Lake City Country Club – Pavement Rehabilitation and Resurfacing

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. 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.

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12. Telephone and facsimile bids will not be acceptable in formal bid openings (sealed bids). 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

COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT NUMBER 2012-7

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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.

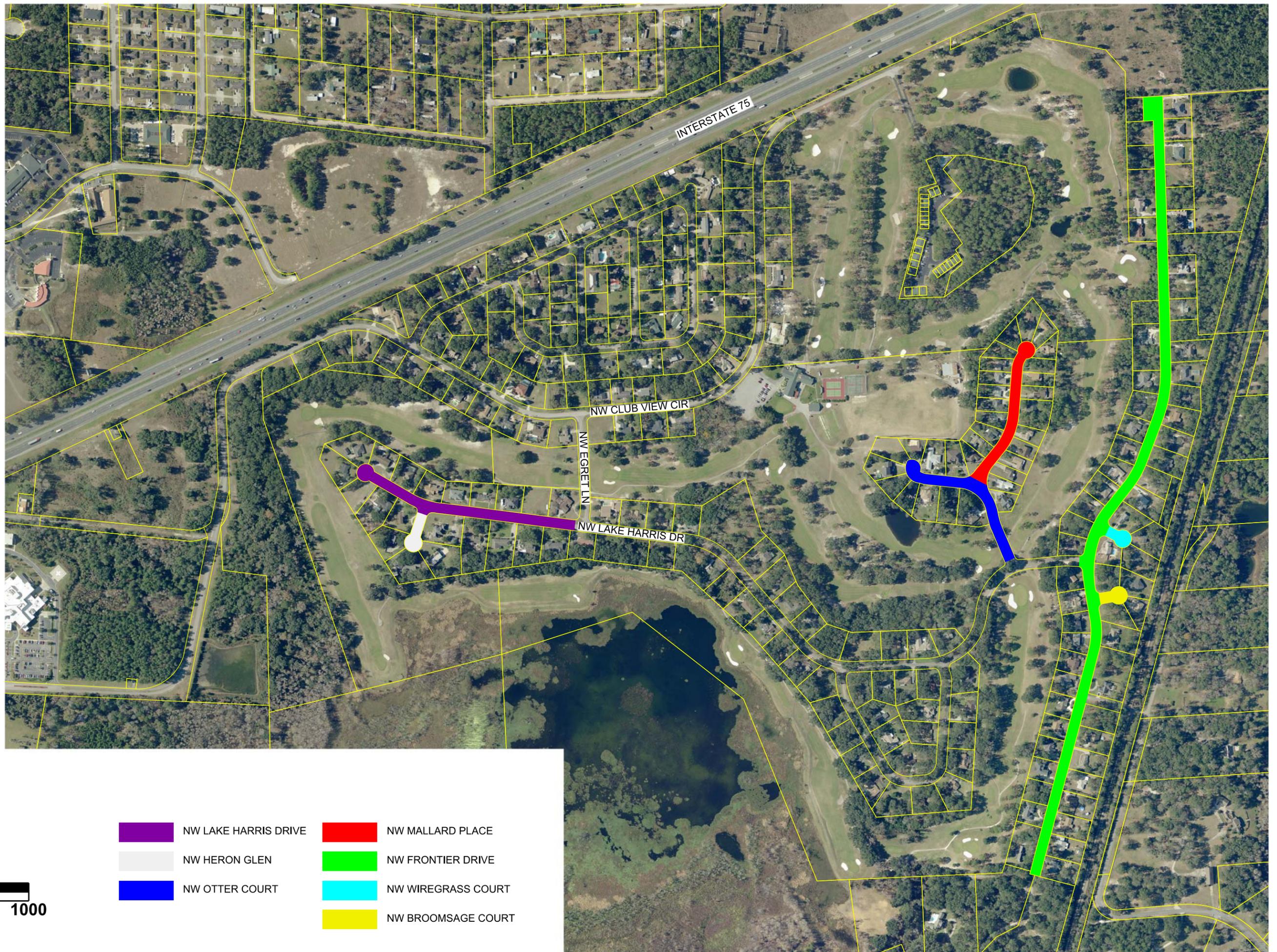
21. The successful bidder on motor vehicle equipment shall be required to furnish with delivery of vehicle, certificate of origin and any other appropriate documentation as required by the Florida Motor Vehicle Department.
22. Prospective bidders are required to examine the location of the proposed work or delivery and determine, in their own way, the difficulties, which are likely to be encountered in the prosecution of the same.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.

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29. 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.
30. 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.
31. Any bidder may withdraw his bid at any time before the time set for the opening of the bids. No bid may be withdrawn in the thirty- (30) day period after bids are opened.
32. 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.
33. 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.
34. 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.
35. Contracts may be cancelled by the County with or without cause on thirty- (30) days advance written notice.
36. 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.

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37. 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.
38. 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 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.
39. 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 pursuant to the contract with the County.

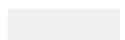


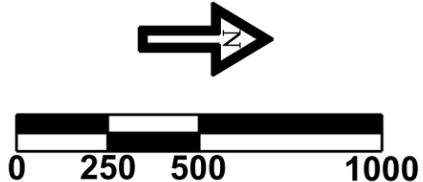
INTERSTATE 75

NW CLUB VIEW CIR

NW EGRET LN

NW LAKE HARRIS DR

- | | | | |
|---|----------------------|---|--------------------|
|  | NW LAKE HARRIS DRIVE |  | NW MALLARD PLACE |
|  | NW HERON GLEN |  | NW FRONTIER DRIVE |
|  | NW OTTER COURT |  | NW WIREGRASS COURT |
| | |  | NW BROOMSAGE COURT |





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

September 26, 2012

Columbia County Board of County Commissioners

P.O. Box 969

Lake City, Florida 32056

Attention: Mr. Chad Williams, P.E.

Subject: Report of Evaluation Of Pavement Section
The Country Club at Lake City – Frontier Drive, Otter Court and Mallard Place
Lake City, Columbia County, Florida
Cal-Tech Project No. 12-00346-01

Dear Mr. Williams:

Cal-Tech Testing, Inc. (CTI) has completed the Evaluation of the pavement sections along Frontier Drive, Otter Court and Mallard Place at the Lake City Country Club. This report presents the results of our field sampling, description of the various materials encountered, and our opinion regarding the structural number of the existing pavement.

Field Program

Our field program consisted of performing a total of ten (1) Standard Penetration Test (SPT) borings each extending 4 feet below the existing top of pavement. The approximate locations of the borings are shown on the attached Field Exploration Map. The borings were performed¹ near the following Global Positioning System (GPS) coordinates:

- B-1 30.19955° N, 82.68320° W
- B-2 30.20010° N, 82.68542° W
- B-3 30.20049° N, 82.68574° W
- B-4 30.20081° N, 82.68867° W
- B-5 30.20124° N, 82.69021° W
- B-6 30.20156° N, 82.69328° W
- B-7 30.20154° N, 82.69605° W
- B-8 30.19906° N, 82.68857° W
- B-9 30.19926° N, 82.69160° W
- B-10 30.19769° N, 82.68988° W

¹ Borings were performed within the center line and wheel path of the roadways

These coordinates were acquired using a hand-held device manufactured by Garmin (model Dakota® 10). Therefore, the actual location of the borings should be considered only as accurate as the means and methods by which they were obtained. Representative samples of the soils brought to the ground surface by the auger process were transported to our laboratory where they were visually classified.

The attached record of boring logs present the description of the subsurface conditions encountered at the time of our field program, and also provide the penetration resistances recorded during the drilling and sampling process. It should be noted the stratification lines and depth designations on the boring records represent the approximate boundaries between the various soils encountered, as determined in the field by our personnel. In some cases, the transition between these soils may be gradual.

Subsurface Conditions

In general, the soil profile as disclosed by SPT borings B-01 through B-10 initially consisted of about $\frac{7}{8}$ to $1\frac{1}{4}$ inches of asphaltic concrete underlain by about $4\frac{5}{8}$ to $9\frac{1}{2}$ inches of limerock. Beneath the pavement section, the soils consisted of grayish tan sand with silt (SP-SM), gray sand (SP) with a trace of gray and gray and tan mottled clayey sand (SC). These soils have a relative density ranging from very loose to medium standard penetration resistance or “N” values ranging from 4 to 19 Blows Per Foot (BPF).

Finding

Based on the results of 10 SPT borings, the average thickness of the asphalt and limerock layers at the subject sites are on the order of about 1 inches and $7\frac{3}{4}$ inches, respectively. Our calculations indicate an approximate average Structural Number (SN) of 1.84 may be considered for the existing pavement sections. This SN values assumes no reduction of the layer coefficients due to pavement age.

We understand the rehabilitation of the subject roadways will consist of a full section reclamation and resurfacing. The reclamation will include milling the upper $\frac{7}{8}$ to $1\frac{1}{4}$ inches of asphalt, and in-situ blending the milled asphalt with the existing $4\frac{5}{8}$ to $9\frac{1}{2}$ inches of limerock. This new blended layer will be compacted as per the current Florida Department of Transportation, *Standard Specifications for Road and Bridge Construction*, and will serve as a base course for the proposed roadway section.

Do to the breaking down of the asphalt aggregate and reworking of the limerock base during the milling and blending operations, we anticipate a reduction in the SN of the newly blended base course layer. We estimate the newly blended base course layer to have an average thickness of about $8\frac{1}{2}$ inches with a layer coefficient of 0.144 (strength reduction of about 20%) or a SN of 1.22 for the anticipated thickness of $8\frac{1}{2}$ inches.

We understand the new pavement section will consist of $1\frac{1}{2}$ inches of asphaltic concrete over the blended base course layer of $8\frac{1}{2}$ inches. Therefore, we estimate this new proposed pavement section will have a SN of 1.884 which sufficiently exceeds the original structural number.

Closing

It must be understood that this exploration was not intended to predict or preclude future sinkholes from occurring or developing at any of the visited site or within the vicinity of these sites. We appreciate the opportunity to be of service on this project. Please contact this office should you have any questions concerning this report or if we may be of any further services.

Sincerely,

CAL-TECH TESTING, INC.

COPY

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

*Distribution: file (1 copy)
Addressee (2 copies & pdf via e-mail)*

*Attachments: Field Exploration Map (1 page)
Record of SPT Borings (10 pages)*

ATTACHMENTS



CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

Field Exploration Map
The Country Club at Lake City
Pavement Rehabilitation Frontier Drive, Otter Court and Mallard Place
Lake City, Columbia County, Florida
Cal-Tech Testing Project No. 12-00346-01



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

BORING NUMBER B-01

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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		7/8" Asphaltic Concrete over 4-5/8" Limerock Base										
		LOOSE, grayish brown, sand with silt (SP-SM)										
			SPT 1	100	6-6-3 (9)							
			SPT 2	100	4-4-4 (8)							

Bottom of borehole at 4.0 feet.



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

BORING NUMBER B-02

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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		7/8" Asphaltic Concrete over 5.5" Limerock Base										
		MEDIUM DENSE, grayish brown, sand with silt (SP-SM)	SPT 1	100	5-6-5 (11)							
		MEDIUM DENSE, gray, sand (SP) with trace of silt	SPT 2	100	7-9-10 (19)							

Bottom of borehole at 4.0 feet.



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BORING NUMBER B-03

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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		1-1/4" Asphaltic Concrete over 6-1/4" Limerock Base										
		MEDIUM DENSE, grayish brown, sand with silt (SP-SM)	SPT 1	100	9-9-6 (15)							
		MEDIUM DENSE, gray, sand (SP) with trace of silt	SPT 2	100	6-7-8 (15)							

Bottom of borehole at 4.0 feet.

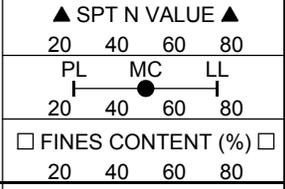


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 Lake City, Florida 32024
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BORING NUMBER B-04

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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
0		1-1/4" Asphaltic Concrete over 8" Limerock Base								
		MEDIUM DENSE, grayish brown, sand with silt (SP-SM)	SPT 1	100	6-7-4 (11)					
		VERY LOOSE, gray, sand (SP) with trace of silt	SPT 2	100	3-2-2 (4)					



Bottom of borehole at 4.0 feet.

GEOTECH BH PLOTS - GINT STD US LAB.GDT - 09/26/12 13:00 - P:\2012\12-00346-01\12-00346-01 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-05

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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
0		1-1/4" Asphaltic Concrete over 9-3/4" Limerock Base								
		LOOSE, grayish brown, sand with silt (SP-SM)	SPT 1	100	5-4-3 (7)					
		VERY LOOSE, gray, sand (SP) with trace of silt	SPT 2	100	3-2-2 (4)					

Bottom of borehole at 4.0 feet.



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 Lake City, Florida 32024
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 Fax: 386-752-5456

BORING NUMBER B-06

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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
0		1-1/4" Asphaltic Concrete over 10-1/4" Limerock Base								
		VERY LOOSE, grayish brown, sand with silt (SP-SM)	SPT 1	100	4-3-1 (4)					
		VERY LOOSE, gray, sand (SP) with trace of silt	SPT 2	100	2-2-2 (4)					

Bottom of borehole at 4.0 feet.

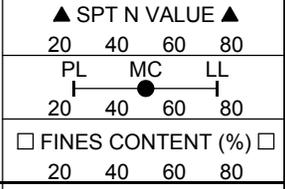


Cal-Tech Testing, Inc.
 P.O. Box 1625
 Lake City, Florida 32024
 Telephone: 386-755-3633
 Fax: 386-752-5456

BORING NUMBER B-07

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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
0		1-1/4" Asphaltic Concrete over 10-1/4" Limerock Base								
		MEDIUM DENSE, grayish brown, sand with silt (SP-SM)	SPT 1	100	7-6-5 (11)					
		LOOSE, gray, sand (SP) with trace of silt	SPT 2	100	3-3-2 (5)					



Bottom of borehole at 4.0 feet.

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 Lake City, Florida 32024
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BORING NUMBER B-08

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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
0		1/2" Asphaltic Concrete over 8" Limerock Base								
		MEDIUM DENSE, grayish brown, sand with silt (SP-SM)	SPT 1	100	9-9-4 (13)					
		LOOSE, gray and reddish tan, mottled, clayey sand (SC)	SPT 2	100	4-3-3 (6)					

Bottom of borehole at 4.0 feet.



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BORING NUMBER B-09

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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
0		1/2" Asphaltic Concrete over 6-1/2" Limerock Base								
		MEDIUM DENSE, grayish brown, sand with silt (SP-SM)	SPT 1	100	7-7-5 (12)					
		LOOSE, gray, sand (SP) with trace of silt	SPT 2	100	4-3-3 (6)					

Bottom of borehole at 4.0 feet.

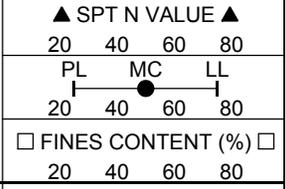


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BORING NUMBER B-10

CLIENT Columbia County Board of County Commissioners **PROJECT NAME** Frontier Drive, Otter Court and Mallard Place Pavement Eval
PROJECT NUMBER 12-00346-01 (The Country Club at Lake City) **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 09/20/12 **COMPLETED** 09/20/12 **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 BK (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
0		1" Asphaltic Concrete over 9-1/2" Limerock Base								
		LOOSE, gray, sand (SP) with trace of silt	SPT 1	100	7-5-5 (10)					
		LOOSE, grayish brown, sand with silt (SP-SM)	SPT 2	100	6-4-3 (7)					



Bottom of borehole at 4.0 feet.