

September 29, 2021

Subject: #2010-B COUNTRY LAKE ESTATES FDR- Addendum #1

Gentlemen/Ladies:

Below, please find responses to questions, clarification, or additional information for the above referenced Invitation to Bid. You will need to consider this information when preparing your quote.

1. **Price sheet change: State time needed to start the project after the Notice to Proceed is received: _____ if greater than (>) 30 days.**

See Attachment 1

2. **The island at the entrance of Bramble Bush Chase appears to be too low and the asphalt has been built up around it. Is the contractor to match the grade of the existing asphalt or pave it back flush with the gutter? Please state the finish road depth.**

The County has verified that the existing c/g is on grade and the contractor should pave it flush.

3. **What type of milling is required edge or surface?**

Please see the Road List in section S that details the required work for each road including the scope of milling. Attachment 2

4. **Will the Contractor be permitted to wet cure the FDR Streets instead of Prime curing them?**

County is proposing wet cure for this project in-place of prime. Please disregard section 315.3.04.G of GDOT Specifications.

5. **Will all the streets be FDR before any paving is done?**

This will be determined by the contractor, but the County would recommend completing the FDR work 1st and then focusing on the milling and resurfacing portion of the project.

6. **Has the County determined if the subdivision utility services, (water, gas, cable, irrigation, etc) that cross the roads are deep enough to construct the proposed FDR section at 13.5" inches below the gutter? Typically, the FDR paving section for subdivision roads with light residential and truck traffic is the 6" of FDR with 2" of asphalt surface, totaling 8" deep. The high-volume primary roads with heavy truck traffic are typically the 10" of FDR and 2" of Binder with 1.5" of asphalt surface, totaling 13.5".**

The contractor will be responsible for scheduling a utility locate and coordinating with all utilities that are in conflict.

7. Will the time associated with a utility locate count against the contractor?

Yes for most routine conflicts, but if you run into a delay that is beyond your control please submit a detailed description of the conflict to the County. The County is willing to work with time extension in terms for delays that are beyond contractor's control.

8. Can the Contractors get a copy of the coring logs that were taken for the FDR mix designs?

The Laboratory Mix Design Testing Summary is attached. Attachment 3

9. There are broken sections of Curb in the cul-de-sac at the end of Winter Ridge that have settled and need to be replace before paving. Is the County going to have this curb removed and replaced or add a bid item for curb removal and replacement?

The county will have removed and replaced this area (65' of c/g) before the NTP is issued.

10. Does the County want the excess FDR material?

Yes. Please provide the two (2) waste area address:

- a) Links Training Center
340 Hewell Road, Jonesboro GA 30238
- b) Champion Lane Parking Lot
115 McDonough Road, Fayetteville 30215

11. Will the contractor be required to build 3.5" temporary ramps at each driveway prior to paving the FDR roads?

Yes, Contractor shall provide access to all residents.

12. Will the county accept compressive strength results to be extracted from samples of the daily field mixture made into a pill and cured? The GDOT FDR Specification 315 no longer requires the 7 Days compressive strength test from field cores.

Yes, the County will allow a sample to be broken for 7 day test results.

13. The entrance street to the subdivision is 3 ½ inches above the curb, what is the County's request for the finishing height?

The County requirement is that milling the entrance road for the overlay will return the street to its original grade.

14. What is the requirement for the cross slope?

The County requires a 2% cross slope for FDR constructed roads and full milled roads. Edge mill roads will be variable and the cross slope requirements will not apply.

15. Will the cross-drainpipe work be completed before this project starts?

Yes, it will be complete and covered with GAB but not paved.

16. Will the contractor reduce the amount of asphalt when mixing?

No, the current mix-design uses the existing asphalt available.

17. Multiple GDOT specifications was referenced, 310, 315 and 412, are you requiring all specifications to be followed?

County will use specification 315 for the FDR.

18. Are the numbers for the estimated tons needed for patching available?

Estimated Tons are as follows:

- Acorn Ridge – 60 tons
- Bramble Bush Chase – 140 tons
- Cherokee Rose Lane – 130 tons
- Morning Springs Walk – 600 tons
- Regatta Point – 50 tons
- Shady Brook Lane – 115 tons
- Treebrooke Way – 35 tons
- Windy Ridge Court – 65 tons

19. Is there any sewer in the subdivision?

No, the subdivision is all septic.

20. Is there a designated stage area?

The cul-de-sac can be used but the equipment cannot block any driveway and a vehicle must be able to pass.

21. Are there any manhole adjustments?

No, the subdivision is all septic.

22. In considering the time of year this project is being bid and pending approach of colder weather, would county consider extending time for contract completion until spring, 2022? Award and contract execution could take 30 days or more. Thus, construction may not commence until early November. That would allow for a better construction environment for surface mixes thus giving Fayette County a better product with more aesthetic appearance of product.

The project is expected to be completed this calendar year. Please list any concerns you have on the exceptions page of your bid.

23. County's FDR proposed process?

County vision for this FDR process is as follows:

- Pre-mix 13.5" below existing c/g
- Haul off the excess material to allow paving to be flush with the existing c/g
- Final mix with cement 40lbs/sy at a 10" depth
- Clip and grade
- Wet cure
- Proof roll and density check before paving

Received by (Name): _____ Company _____

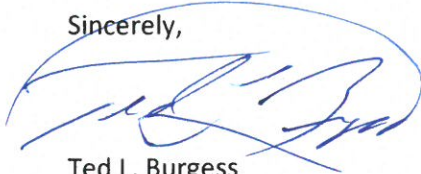
Note: If this addendum is not returned to the Fayette County Purchasing Department or if it is returned not signed, responding individuals, companies or other organizations will still be responsible for the requirements of this addendum and the specifications or changes herein.

The opening date for this ITB has not changed. **The bids are due by 3:00pm, Monday, October 4, 2021.** Quotes must be received by the Purchasing Department at or before the opening date and time.

At this time, we have passed the questions deadline. We will not be able to respond to any inquiries about this project.

If you have questions, please contact Sherry White, Contract Administrator at (770) 305-5314 or fax (770) 719-5544 or email at swhite@fayettecountyga.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ted L. Burgess", is written over a large, light blue oval shape.

Ted L. Burgess
Director of Purchasing

PRICE SHEET**ITB #2010-B: COUNTRY LAKE ESTATES FDR**

DESCRIPTION	UNIT	ESTIMATED EQUANTITY	UNIT PRICE	EXTENDED PRICE
Mobilization	LS	1		
Traffic Control	LS	1		
Full Depth Reclamation	SY	29669		
Cement	TN	593		
Binder layer 19mm @ 220lbs/sy	TN	5055		
Mill Patching 19mm @ 220lbs/sy	TN	1315		
9.5mm Type 2 @ 165lbs/sy	TN	5095		
Tack	GAL	7115		
Surface Milling	SY	29160		
TOTAL NOT TO EXCEED PROJECT PRICE				

NOTES:

1. All applicable charges shall be included in your prices, including but not limited to materials, equipment, installation, labor, and any other amounts. No additional charges will be allowed after the bid opening.

State time need to start project after the Notice to Proceed is received: _____ (if > 30 days)

COMPANY NAME _____

#2010-B COUNTRY LAKE ESTATES FDR ROAD LIST

COUNTY MIN STANDARD	GAB (IN)	ASPHALT (IN)	OVERLAY (IN)
	6	3.5	N/A

STREET	LOCATION	GAB (IN)	ASPHALT BELOW C/G (IN)	OVERLAY ABOVE C/G (IN)
Shady Brook Lane	155	5.25	1.5	1.5
Shady Brook Lane	Cul-de-sac	5.5	2.25	1.5
Shady Brook Lane	150	4.75	1.5	1.5
Shady Brook Lane	125	5	2.5	1.5
Shady Brook Lane	150 Other Lane	5.25	2.25	1.5
Acorn Ridge	105	0	1.75	1.25
Acorn Ridge	115	1	1.75	1.25
Acorn Ridge	120	2	2	1.25
Acorn Ridge	110	2	2.25	1.25
Windy Ridge Court	105	5	2.5	1.5
Windy Ridge Court	105 plus 125ft	5	2.5	1.5
Windy Ridge Court	140	7	3	1.5
Windy Ridge Court	120	6	2.75	1.5
Cherokee Rose Lane	175	5	2	1.5
Cherokee Rose Lane	140	6	2.25	1.5
Cherokee Rose Lane	111	5.5	1.75	1.5
Cherokee Rose Lane	100	5	2.5	1.5
Cherokee Rose Lane	115	5	2.5	1.5
Cherokee Rose Lane	155	4.5	2.5	1.5
Bramblebush Chase	1st 20 ft	0	2.25	1.5
Bramblebush Chase	115	2	2.5	1.5
Bramblebush Chase	135	3	1.5	1.5
Bramblebush Chase	170	3	2.5	1.5
Bramblebush Chase	150	4	1.5	1.5
Bramblebush Chase	120	3	1.5	1.5
Scarlett Oak Way	1st 20 ft	0	1.75	1.25
Scarlett Oak Way	1st 20 ft plus 50 ft	0	1.75	1.25
Scarlett Oak Way	115	0	1.75	1.25
Scarlett Oak Way	135	0	2	1.25
Scarlett Oak Way	120	0	1.75	1.25
Scarlett Oak Way	100	0	1.5	1.25
Treebrook Way	1st 20 ft	5	3.25	1.75
Treebrook Way	115	5.5	1.75	1.75
Treebrook Way	125	4.5	0.25	1.75
Treebrook Way	120	4	1.75	1.75
Treebrook Way	110	4.25	2	1.75
Regatta Point	1st 20 ft	0	6	2
Regatta Point	1st 20 ft plus 75 ft	3	2	2
Regatta Point	1st 20 ft plus 75 ft plus 100 ft	2	6	2
Regatta Point	110	5	3	2
Regatta Point	110 plus 100 ft	2	6.5	2
Regatta Point	110 plus 100 ft plus 70 ft	1	6.75	2
Morning Springs Walk	1st 150 ft start 279	5	1.5	1.5
Morning Springs Walk	125	5.5	2.25	1.5
Morning Springs Walk	135	5	2.75	1.5
Morning Springs Walk	155	5	2.25	1.5
Morning Springs Walk	Bayberry Run	6	3	1.5

COUNTY MIN STANDARD

GAB (IN)
6ASPHALT (IN)
3.5OVERLAY (IN)
N/A

STREET	LOCATION	GAB (IN)	ASPHALT BELOW C/G (IN)	OVERLAY ABOVE C/G (IN)
Morning Springs Walk	225	5	1.75	1.5
Morning Springs Walk	at Lake	5	1.75	1.5
Morning Springs Walk	315	5	1.75	1.5
Morning Springs Walk	335	5.5	1.75	1.5
Morning Springs Walk	385	4	2.25	1.5
Morning Springs Walk	350	6	1.75	1.5
Morning Springs Walk	320	4	1.75	1.5
Morning Springs Walk	250	5	1.75	1.5
Morning Springs Walk	340	4	1	1.5
Morning Springs Walk	Bayberry going out	3	5	1.5
Morning Springs Walk	Regatta Point	4	2	1.5
Winterberry Ridge	200	0	2.25	1.25
Winterberry Ridge	160	0	2.25	1.25
Winterberry Ridge	130	0	2.25	1.25
Winterberry Ridge	110	0	2.75	1.25
Winterberry Ridge	at Bayberry plus 25 ft	0	2.75	1.25
Winterberry Ridge	at Bayberry plus 25 ft plus 75 ft	1	2	1.25
Winterberry Ridge	at Bayberry plus 25 ft plus 75 ft plus 25 ft	0	2	1.25
Winterberry Ridge	135	0	1.5	1.25
Winterberry Ridge	145	0	2	1.25
Bayberry Run	129	0	1.75	1.5
Bayberry Run	240	2	2.5	1.5
Bayberry Run	240 plus 50 ft	0	2.5	1.5
Bayberry Run	238	0	2.5	1.5
Bayberry Run	230	0	2.5	1.5
Bayberry Run	190	0	1.5	1.5
Bayberry Run	160	0	1.5	1.5
Bayberry Run	102	0	2	1.5
Bayberry Run	127	0	2.5	1.5
Bayberry Run	139	0	2.25	1.5
Bayberry Run	145	0	2.25	1.5
Bayberry Run	175	0	2	1.5
Bayberry Run	205	0	2	1.5
Bayberry Run	205 plus 100 ft	1	2	1.5
Standing Oak Place	210	0	1.75	1.75
Standing Oak Place	180	0	2.25	1.75
Standing Oak Place	160	1	1.5	1.75
Standing Oak Place	100	2	2.25	1.75
Standing Oak Place	100 plus 150 ft	3	2.25	1.75
Standing Oak Place	100 plus 150 ft plus 100 ft	0	2.25	1.75
Standing Oak Place	Morning Springs	3	1.25	1.75
Standing Oak Place	Morning Springs plus 50 ft	2	1.25	1.75
Standing Oak Place	Morning Springs plus 50 ft plus 50 ft	3	1.75	1.75
Standing Oak Place	115	0	2.25	1.75
Standing Oak Place	145	0	1.75	1.75
Standing Oak Place	185	0	2.5	1.75
Moss Creek Walk	260	0	1.5	1.5

COUNTY MIN STANDARD

GAB (IN)
6

ASPHALT (IN)
3.5

OVERLAY (IN)
N/A

STREET	LOCATION	GAB (IN)	ASPHALT BELOW C/G (IN)	OVERLAY ABOVE C/G (IN)
Moss Creek Walk	220	0	1.5	1.5
Moss Creek Walk	210	0	1	1.5
Moss Creek Walk	160	0	2	1.5
Moss Creek Walk	150	0	1	1.5
Moss Creek Walk	110	0	1.5	1.5
Moss Creek Walk	110 plus 150 ft	0	1.5	1.5
Moss Creek Walk	Standing Oak plus 50 ft	0	1.5	1.5
Moss Creek Walk	135	0	1.5	1.5
Moss Creek Walk	195	0	2	1.5
Moss Creek Walk	215	0	1	1.5
Moss Creek Walk	235	0	1	1.5
Fiddlers Ridge	200	0	3	1.5
Fiddlers Ridge	180	0	2	1.5
Fiddlers Ridge	160	0	1.5	1.5
Fiddlers Ridge	130	0	1.5	1.5
Fiddlers Ridge	130 plus 150 ft	0	1.75	1.5
Fiddlers Ridge	115	0	1	1.5
Fiddlers Ridge	145	0	1	1.5
Fiddlers Ridge	165	0	1.75	1.5
Fiddlers Ridge	185	0	1	1.5
Camilla Court	125	0	3.5	1.5
Camilla Court	110	0	2	1.5
Camilla Court	End of Road	0	2	1.5
Camilla Court	Winterberry plus 100 ft	0	2	1.5
Camilla Court	Winterberry plus 100 ft plus 200 ft	0	1.75	1.5
Camilla Court	115	0	2.25	1.5

Mr. Bradley Klinger
Fayette County Road Department
115 McDonough Road
Fayetteville, Georgia 30215

August 18, 2021

**FDR Mix Design Report
Country Lake Subdivision
Fayetteville, Georgia
Geo-Hydro Project Number 200414.10**

Dear Mr. Klinger:

Geo-Hydro Engineers has completed the laboratory full depth reclamation mix design testing for the above referenced project. Bulk samples for full-depth reclamation (FDR) laboratory mix design testing were obtained from the street list provided.

LABORATORY MIX DESIGN TESTING SUMMARY

For this project, we understand that the existing pavement materials consisting of asphaltic concrete and soil will be mixed with Type I Portland cement. Bulk samples that were obtained from different streets with similar characteristics, were thoroughly blended into one composite sample. On each composite sample, we performed laboratory procedures for preparing compressive strength specimens in general accordance with the following standards:

- ASTM D698 "*Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort*"
- ASTM D558 "*Standard Test Method for Moisture Density Relations of Soil Cement Mixtures*", Method B
- ASTM D1633 "*Standard Test Method for Compressive Strength of Molded Soil-Cement Cylinders*", Method A. Georgia DOT requires a field compressive strength of 300 psi.

Amendment percentages were chosen based on our experiences with similar projects and generally based on test requirements of GDOT Test Method GDT-65.

FDR MIX DESIGN:

Country Lake Subdivision

The asphalt was determined to be approximately 2 ½ to 4 ¼ inches in thickness. The asphalt contained no underlying graded aggregate base. The underlying subgrade was found to be a red/brown silty sand. Due to the absence of graded aggregate base, our design is based on 2 ½ inches of the existing asphalt being pre-mixed into the underlying material prior to the mixing of the cement.

The material was amended with Type I Portland cement at rates of 40 and 55 pounds per square yard for a depth of 10 inches which is approximately 5.1 and 7.0 percent of dry weight of the parent material, respectively. The results from our testing are summarized in the following tables:

ASTM D 698 "Standard Test Method for Laboratory Compaction of Soil Using Standard Effort"

Sample Identification	Maximum Dry Density, (pcf)	Optimum Moisture Content, (%)
Bulk Sample with No Treatment	105.5	16.5

ASTM D 558 "Standard Test Method for Moisture Density Relations of Soil-Cement Mixtures"

Sample Identification	Maximum Dry Density, (pcf)	Optimum Moisture Content, (%)
Bulk Sample with 40 lbs/yd ² (5.1%)	108.4	13.8
Bulk Sample with 55 lbs/yd ² (7.0%)	108.2	14.1

ASTM D 1633 "Standard Test Method for Compressive Strength of Molded Soil-Cement Cylinders"

Bulk Sample amended with 40 lbs/yd² (5.4%) Type I Portland Cement for a depth of 10 inches

Sample Identification	Dry Density, (pcf)	Moisture Content, (%)	Age, (days)	Compressive Strength, (psi)	Average Compressive Strength, (psi)
A	101.7	15.3	3	230	-
B	108.4	13.8	7	450	435
C	104.5	18.2	7	420	

Bulk Sample amended with 55 lbs/yd² (7.0%) Type I Portland Cement for a depth of 10 inches

Sample Identification	Dry Density, (pcf)	Moisture Content, (%)	Age, (days)	Compressive Strength, (psi)	Average Compressive Strength, (psi)
A	105.2	16.2	3	355	-
B	108.2	14.1	7	500	475
C	103.6	18.7	7	455	

RECOMMENDATIONS

The following recommendations are based on our visual observations, information obtained during the exploration, and on our experience with similar projects.

Based on the average compressive strength results, utilizing Type I Portland cement at the following amendment rates will yield adequate compressive strength results at 7-days:

2020 Road(s)	Amendment Rate	Mix Depth
Country Lake Estates	40 lbs/yd ²	10 inches

If isolated areas of soft subgrade soils still exist, remixing of these areas at a higher amendment rate may be necessary. If the base materials vary significantly from the materials used in the FDR mix design, the amendment percentages may need to be altered during construction in order to obtain desirable compressive strength results.

In general, we recommend that FDR construction be performed in general accordance with the construction requirements defined by *Georgia DOT Section 301.3 – Cement Stabilized Reclaimed Base Construction* specifications.

* * * * *

If you have any questions concerning this report, please feel free to contact us.

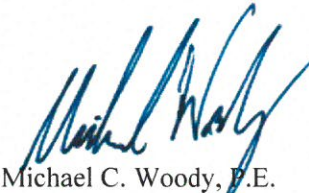
Sincerely,

GEO-HYDRO ENGINEERS, INC.



William K. Donaldson
CMET Project Manager

wdonaldson@geohydro.com



Michael C. Woody, P.E.
Kennesaw CMT Manager

mwoody@geohydro.com

WKD/MCW/200414.10 Country Lake Estates Mix Design Report