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\text { ADDENDUM NO. } 1 \quad \text { TO } \underline{18-0115-4}
$$

FOR: BENTON BOULEVARD EXTENSION
PLEASE SEE THE FOLLOWING FOR ADDITIONS, CLARIFICATIONS AND/OR CHANGES:

1. SEE ATTACHED QUESTIONS RECEIVED ( 4 pages)
2. REPLACE CURRENT BID SHEETS WITH THE ATTACHED REVISED BID SHEETS ( 7 pages)
3. REPLACE CURRENT SPECIAL CONDITIONS WITH THE ATTACHED REVISED SPECIAL CONDITIONS ( 6 pages)
4. FULL SIZE Plan Sheets : 16-0002A, 16-0002B and 22-0013
5. REVISED Plan Sheets : Cover Sheet, 03-0001, 05-0012, 05-0013, 23-0061, 23-0062
6. REVISED Plan Sheets : 06-0001, 07-0001

NOTE: No additional questions will be received after 3PM, November 20, 2018. Addendum 2 will be issued NLT close of business, Monday, November 26, 2018.

NOTE: BID OPENING HAS BEEN EXTENDED TO: 2PM, TUESDAY, DECEMBER 4, 2018

THE PROPOSER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES AND MUST ACKNOWLEDGE RECEIPT OF ADDENDUM.


## Bid No. 18-0115-4 <br> BENTON BOULEVARD EXTENSION <br> PRE-BID QUESTIONS

1. Could the bid date be changed from $11 / 27 / 18$ to $12 / 4 / 18$ due to the holidays the week prior?

Answer 1. Yes, given the Thanksgiving holiday, the bid opening may be changed by one week.
2. Can you please provide, if available, any electronic files associated with the project.

Answer 2. No, the design files will not be made available during bidding. Additional Earthwork information was added to the information available on the website.
3. The plans do not show the proposed force main and water relocations. Please issue sheets that show these relocations.

Answer 3. There are no sheets showing specific relocations for the water and force main.
There are notes and details explaining what is required for relocations on an as needed basis.
4. Will any incidental asphalt required for maintenance of traffic be paid for under the provided asphalt items?

Answer 4. Some temporary leveling will most likely be needed for stage construction of the roundabouts. Additional leveling quantities will be added.
5. The notes on the typical sections say to install $6^{\prime \prime}$ GAB under all type 2 curb and type 7 curb within the following ranges:
a. $62+80-65+50$
b. $88+89-$ End
c. $198+69-201+35$
d. $297+54-302+36$

Will the stone in this area be paid under the $6^{\prime \prime}$ GAB item or is it to be considered incidental to the curb?

Answer 5. The Graded Aggregate Base, six inch, placed under the curb as required by the plans will be paid for under the GAB, 6 inch pay item.
6. Pump Station on sheet number 13-002 Station $26+25$ appears to be in conflict please confirm we have no responsibility with this structure.

Answer 6. The pump station at Benton Blvd and Highlands Blvd will be moved by others. It is possible that the sidewalk may need to be shifted slightly to accommodate utilities in this area.
7. Has Chatham County been given relocation schedules from "ATT, Ga Power etc" This can impact the project schedule given the potential of utility relocation delays. Will Chatham County allow time extensions associated with said delays.

Answer 7. No delays due to utility conflicts are expected to impact the overall construction schedule. It is the Contractors responsibility to coordinate work and relocations with the utility companies.
8. Can Highway 30 be closed over weekend periods?

Answer 8. No, closures of State Route 30 will not be allowed.
9. Are there any lane (closure) restrictions associated with normal working hours on the project?

Answer 9. Yes, lane closure restrictions will be added. See the revised Special Conditions.
10. Can we decrease full depth removal sections on HWY 30 . If not we feel temporary paving will be necessary.

Answer 10. No, sufficient existing pavement will be retained that along with the new pavement will allow for a minimum of two 10 foot travel lanes during staging. See the plan sheets and cross sections for details.
11. What does the dash line represent near the existing travel lane on SR 30 and Highlands. Sheet 13-002 calls out dash line as "limits of overlay" this does conflict with typical sections on SR 30.

Answer 11. The existing pavement to remain is outlined with a hatched border that is called out as 'limits of overlay' on the plan sheets. The plan sheets and cross sections are correct. The typical sections are incorrect. See revised sheets.
12. Please confirm asphalt index is included as part of this project.

Answer 12. The asphalt index is included in the project. See Special Provision 109Measurement and Payment.
13. Will Chatham County consider surface mounted islands as an alternative to curb and gutter with median paving / grassing at SR 30? This also would facilitate construction.

The County will consider integral concrete islands only in those areas noted as 'concrete island' on State Route 30.
14. One of our potential trucking subs has asked about the weight restrictions on Meinhard Road. Will these restrictions be enforced during construction of this project? This route would be the best way to get material to the north side of St Augustine Creek as soon as possible so the settlement period can begin.

Answer 14. The weight restriction is by Port Wentworth, most likely to minimize disruption to residences and damage to the pavement. A variance may be requested by the Contractor. I would expect that they would require any damage to the pavement to be repaired by the Contractor. Do not call Port Wentworth. Inquires will be made by County staff. Any additional information obtained will be provided.
15. Per special provision 209.2.A the top $12^{\prime \prime}$ of subgrade material must be class IIB3 material or better. If the material within the top $12^{\prime \prime}$ of subgrade meets the requirements of IIB3 or better but cannot be stabilized with reasonable efforts, will the removal and replacement of this material be measure for payment under the pay item for undercut excavation?

Answer 15. No, the Contractor is responsible for the first foot regardless. However, if the material meets specifications, it can be re-used on the project.
16. Is Sheet 23-0056 missing from the full size plans?

Answer 16. No, Sheet 23-0056 is not missing. However, there are three sheets that were scaled to half size rather than full size.
17. Will Metal Safety End Sections be allowed?

Answer 17. Yes, metal safety end sections are acceptable.
18. Will the $220 \mathrm{lbs} /$ sy of 9.5 mm asphalt on the path need to be placed in two lifts?

Answer 18. No, either the mix will be changed to 12.5 mm or the asphalt thickness reduced to $165 \mathrm{lb} /$ sy. This is currently under review by the designer.
19. Can the field office be placed on County right of way?

Answer 19. Yes, the field office may be placed on County right of way if there is room outside the construction limits. The existing portion of Benton Boulevard south of Highlands Boulevard is City of Savannah right of way. The City would have to approve placement of the field office there.
20. If irrigation is installed for the landscaping in the medians will it have to be removed?

Answer 20. The roundabouts with landscaping are within Port Wentworth and one of them is also within the Georgia Department of Transportation right of way. Port Wentworth will maintain them after construction is complete. Any installation of irrigation would have to be approved by Port Wentworth and GDOT as applicable.
21. Will burning be allowed on site?

Answer 21. Burning will be allowed as provided by federal, state and local jurisdictional ordinances.
22. Is there any way we can get soil samples at the pond locations?

Answer 22. Access would be allowed at the location of Pond \#2 off of Meinhard Road, however, access is not permitted to the location of Pond \#1 near State Route 30 at this time.

## BID SHEET ( REVISED ADDENDUM 1 ) <br> BENTON BOULEVARD EXTENSION

ITEM DESCRIPTION
UNIT QUANTITY UNIT PRICE TOTAL
ROADWAY


## BID SHEET ( REVISED ADDENDUM 1 ) <br> BENTON BOULEVARD EXTENSION

| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 441-5008 | CONCRETE HEADER CURB, 6 IN, TP 7 | LF | 660 |  |  |
| 441-6022 | CONC CURB \& GUTTER, 6 IN X $30 \mathrm{IN}, \mathrm{TP} 2$ | LF | 330 |  |  |
| 441-6222 | CONC CURB \& GUTTER, 8 IN X $30 \mathrm{IN}, \mathrm{TP} 2$ | LF | 9800 |  |  |
| 441-6740 | CONC CURB \& GUTTER, 8 IN X $30 \mathrm{IN}, \mathrm{TP} 7$ | LF | 10000 |  |  |
| 441-6741 | CONC CURB \& GUTTER, 8 IN X 30 IN, TP 7 (MODIFIED: 4IN TYPE 9 FACE FOR TRUCK APRON) | LF | 830 |  |  |
| 446-1100 | PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH | LF | 5600 |  |  |
| 455-1000 | FILTER FABRIC FOR EMBANKMENT STABILIZATION | SY | 12000 |  |  |
| 456-2015 | INDENT RUMBLE STRIPS - GROUND-IN-PLACE (SKIP) | GLM | 3 |  |  |
| 500-3101 | CLASS A CONCRETE | CY | 470 |  |  |
| 500-3201 | CLASS B CONCRETE, RETAINING WALL | CY | 35 |  |  |
| 500-3800 | CLASS A CONCRETE, INCL REINF STEEL | CY | 10 |  |  |
| 500-9999 | CLASS B CONC, BASE OR PVMT WIDENING | CY | 85 |  |  |
| 511-1000 | BAR REINF STEEL | LB | 46000 |  |  |
| 515-2020 | GALV STEEL PIPE HANDRAIL, 2 IN, ROUND | LF | 115 |  |  |
| 550-1150 | STORM DRAIN PIPE, $15 \mathrm{lN}, \mathrm{H}$ 1-10 | LF | 30 |  |  |
| 550-1180 | STORM DRAIN PIPE, $18 \mathrm{lN}, \mathrm{H} 1-10$ | LF | 3300 |  |  |
| 550-1240 | STORM DRAIN PIPE, 24 IN, H 1-10 | LF | 1300 |  |  |
| 550-1300 | STORM DRAIN PIPE, $30 \mathrm{IN}, \mathrm{H} 1-10$ | LF | 590 |  |  |
| 550-1360 | STORM DRAIN PIPE, 36 IN, H 1-10 | LF | 120 |  |  |
| 550-2180 | SIDE DRAIN PIPE, 18 IN, H I-10 | LF | 200 |  |  |
| 550-2240 | SIDE DRAIN PIPE, 24 IN, H 1-10 | LF | 150 |  |  |
| 550-2300 | SIDE DRAIN PIPE, 30 IN, H 1-10 | LF | 50 |  |  |
| 550-2420 | SIDE DRAIN PIPE, 42 IN, H 1-10 | LF | 50 |  |  |
| 550-4118 | FLARED END SECTION 18 IN, SIDE DRAIN | EA | 8 |  |  |
| 550-4124 | FLARED END SECTION 24 IN, SIDE DRAIN | EA | 2 |  |  |
| 550-4142 | FLARED END SECTION 42 IN, SIDE DRAIN | EA | 4 |  |  |
| 550-3618 | SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE | EA | 2 |  |  |
| 550-3624 | SAFETY END SECTION 24 IN, SIDE DRAIN, 6:1 SLOPE | EA | 1 |  |  |
| 550-3630 | SAFETY END SECTION 30 lN , SIDE DRAIN, 6:I SLOPE | EA | 1 |  |  |
| 550-4215 | FLARED END SECTION 15 IN, STORM DRAIN | EA | 1 |  |  |
| 550-4218 | FLARED END SECTION 18 IN, STORM DRAIN | EA | 15 |  |  |
| 550-4224 | FLARED END SECTION 24 IN, STORM DRAIN | EA | 1 |  |  |
| 550-4230 | FLARED END SECTION 30 IN , STORM DRAIN | EA | 6 |  |  |
| 550-4236 | FLARED END SECTION 36 IN , STORM DRAIN | EA | 1 |  |  |
| 572-1000 | SLOPE UNDERDRAINS | LF | 200 |  |  |
| 573-2006 | UNDDR PIPE INCL DRAINAGE AGGR, 6 IN | LF | 2000 |  |  |
| 600-0001 | FLOWABLE FILL | CY | 20 |  |  |
| 611-3000 | RECONSTR CATCH BASIN, GROUP 1 | EA | 1 |  |  |
| 611-3020 | RECONSTR SAN SEW MANHOLE, TYPE I | EA | 1 |  |  |
| 611-8050 | ADJUST MANHOLE TO GRADE | EA | 20 |  |  |

## BID SHEET ( REVISED ADDENDUM 1 ) BENTON BOULEVARD EXTENSION

ITEM

| TESCRIPTION | UNIT QUANTITY UNIT PRICE |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| $611-8140$ | ADJUST WATER VALVE BOX TO GRADE | EA | 4 |  |  |
| $634-1200$ | RIGHT OF WAY MARKERS | EA | 125 |  |  |
| $635-1000$ | BARRICADES | LF | 40 |  |  |
| $641-1100$ | GUARDRAIL, TP T | LF | 84 |  |  |
| $641-1200$ | GUARDRAIL, TP W | LF | 480 |  |  |
| $641-5001$ | GUARDRAIL ANCHORAGE, TP 1 | EA | 2 |  |  |
| $641-5020$ | GUARDRAIL TERMINAL, TP 12B, 31 IN, FLARED, ENERGY- |  |  |  |  |
| $643-8040$ | GATE, WOVEN WIRE, 12 FT (DETAIL F2) | EA | 2 |  |  |
| $643-8200$ | BARRIER FENCE (ORANGE), 4 FT | EA | 5 |  |  |
| $668-1100$ | CATCH BASIN, GP 1 | LF | 4300 |  |  |
| $668-1110$ | CATCH BASIN, GP 1, ADDL DEPTH | EA | 60 |  |  |
| $668-2100$ | DROP INLET, GP 1 | LF | 30 |  |  |
| $668-2110$ | DROP INLET, GP 1, ADDL DEPTH | EA | 30 |  |  |
| $668-4300$ | STORM SEWER MANHOLE, TP 1 | LF | 15 |  |  |
| $668-4311$ | STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1 | EA | 2 |  |  |
| $668-9800$ | OUTLET CONTROL STRUCTURE | LF | 4 |  |  |

TEMPORARY EROSION CONTROL

| $163-0232$ | TEMPORARY GRASSING | AC | 60 |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| $163-0240$ | MULCH | TN | 730 |  |  |
| $163-0300$ | CONSTRUCTION EXIT | EA | 12 |  |  |
| $163-0310$ | CONSTRUCTION EXIT TIRE WASH ASSEMBLY | EA | 6 |  |  |
| $163-0503$ | CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3 | EA | 20 |  |  |
|  | CONSTRUCT AND REMOVE RIP RAP CHECK DAMS, |  |  |  |  |
| $163-0527$ | STONE PLAIN RIP RAP/SAND BAGS | EA | 62 |  |  |
| $163-0540$ | CONSTRUCT AND REMOVE RETROFIT | EA | 2 |  |  |
| $163-0541$ | CONSTRUCT AND REMOVE ROCK FILTER DAMS | EA | 6 |  |  |
| $163-0542$ | CONSTRUCT AND REMOVE STONE FILTER RING | EA | 1 |  |  |
| $163-0550$ | CONSTRUCT AND REMOVE INLET SEDIMENT TRAP | EA | 100 |  |  |
| $163-1925$ | CONSTRUCT AND REM COMPOST FILTER SOCK, 12 IN | LF | 240 |  |  |
| $165-0010$ | MAINTENANCE OF TEMPORARY SILT FENCE, TP A | LF | 48000 |  |  |
| $165-0020$ | MAINTENANCE OF TEMPORARY SILT FENCE, TP B | LF | 300 |  |  |
| $165-0030$ | MAINTENANCE OF TEMPORARY SILT FENCE, TP C | LF | 9900 |  |  |
| $165-0041$ | MAINTENANCE OF CHECK DAMS - ALL TYPES | LF | 1270 |  |  |
| $165-0050$ | MAINTENANCE OF SILT RETENTION BARRIER | LF | 200 |  |  |
| $165-0087$ | MAINTENANCE OF SILT CONTROL GATE, TP 3 | EA | 20 |  |  |
| $165-0095$ | MAINTENANCE OF RETROFIT, STA NO - | EA | 2 |  |  |
| $165-0101$ | MAINTENANCE OF CONSTRUCTION EXIT | EA | 12 |  |  |
| $165-0105$ | MAINTENANCE OF INLET SEDIMENT TRAP | EA | 100 |  |  |
| $165-0110$ | MAINTENANCE OF ROCK FILTER DAM | EA | 6 |  |  |

## BID SHEET ( REVISED ADDENDUM 1 ) BENTON BOULEVARD EXTENSION

ITEM

|  | UESCRIPTION |  |  | QUANTITY UNIT PRICE |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| $165-0111$ | MAINTENANCE OF STONE FILTER RING | EA | 1 |  |  |
| $165-0310$ | MAINT OF CONSTR EXIT TIRE WASH ASSEMBLY | EA | 6 |  |  |
| $165-1500$ | MAINT OF COMPOST FILTER SOCK (ALL SIZES) | LF | 240 |  |  |
| $167-1000$ | WATER QUALITY MONITORING AND SAMPLING | EA | 10 |  |  |
| $167-1500$ | WATER QUALITY INSPECTIONS | MO | 18 |  |  |
| $170-1000$ | FLOATING SILT RETENTION BARRIER | LF | 200 |  |  |
| $171-0010$ | TEMPORARY SILT FENCE, TYPE A | LF | 48000 |  |  |
| $171-0020$ | TEMPORARY SILT FENCE, TYPE B | LF | 300 |  |  |
| $171-0030$ | TEMPORARY SILT FENCE, TYPE C | LF | 9900 |  |  |

PERMANENT EROSION CONTROL

| $603-2182$ | STN DUMPED RIP RAP, TP 3, 24 IN | SY | 1100 |  |  |
| :--- | :--- | :---: | ---: | ---: | ---: |
| $603-7000$ | PLASTIC FILTER FABRIC | SY | 1100 |  |  |
| $700-6910$ | PERMANENT GRASSING | AC | 32 |  |  |
| $700-7000$ | AGRICULTURAL LIME | TN | 190 |  |  |
| $700-7010$ | LIQUID LIME | GL | 480 |  |  |
| $700-8000$ | FERTILIZER MIXED GRADE | TN | 30 |  |  |
| $700-8100$ | FERTILIZER NITROGEN CONTENT | LB | 1550 |  |  |
| $716-2000$ | EROSION CONTROL MATS, SLOPES | SY | 4500 |  |  |

SIGNING \& MARKING

| $500-3104$ | CLASS A CONCRETE, SIGNS | CY | 15 |  |  |
| :--- | :--- | :---: | ---: | ---: | ---: |
| $611-5551$ | RESET SIGN | EA | 2 |  |  |
| $636-1033$ | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9 | SF | 430 |  |  |
| $636-1036$ | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11 | SF | 520 |  |  |
| $636-1041$ | HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9 | SF | 370 |  |  |
|  | HIGHWAY SIGNS, ALUM EXTRUDED PANELS, REFL |  |  |  |  |
| $636-1077$ | SHEETING, TP 9 | SF | 190 |  |  |
| $636-2070$ | GALV STEEL POSTS, TP 7 | LF | 1260 |  |  |
| $636-2080$ | GALV STEEL POSTS, TP 8 | LF | 340 |  |  |
| $636-2090$ | GALV STEEL POSTS, TP 9 | LF | 780 |  |  |
| $636-3000$ | GALV STEEL STR SHAPE POST | LB | 6000 |  |  |
| $636-3010$ | GROUND-MOUNTED BREAKAWAY SIGN SUPPORT | EA | 16 |  |  |
| $636-9094$ | PILING IN PLACE, SIGNS, STEEL H, HP 12 X 53 | LF | 40 |  |  |
| $653-0120$ | THERMOPLASTIC PVMT MARKING, ARROW, TP 2 | EA | 55 |  |  |
| $653-0210$ | THERMOPLASTIC PVMT MARKING, WORD, TP 1 | EA | 2 |  |  |
| $653-0296$ | THERMOPLASTIC PVMT MARKING, WORD, TP 15 | EA | 10 |  |  |
| $653-1704$ | THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE | LF | 380 |  |  |
| $653-1804$ | THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE | LF | 6400 |  |  |
| $653-2501$ | THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE | LM | 5.40 |  |  |

## BID SHEET ( REVISED ADDENDUM 1 ) <br> BENTON BOULEVARD EXTENSION

ITEM

|  |  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| $653-2502$ | THESCRIPTION | UNIT QUANTITY UNIT PRICE |  |  |  |
| $653-4501$ | THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE | GLM | 0.40 |  |  |
| $653-4830$ | THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE | GLF | 430 |  |  |
| $653-6004$ | THERMOPLASTIC TRAF STRIPING, WHITE | SY | 590 |  |  |
| $653-6006$ | THERMOPLASTIC TRAF STRIPING, YELLOW | SY | 5700 |  |  |
| $654-1001$ | RAISED PVMT MARKERS TP 1 | EA | 570 |  |  |
| $654-1003$ | RAISED PVMT MARKERS TP 3 | EA | 240 |  |  |
| $657-1085$ | PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, <br> CONTRAST (BLACK-WHITE), TP PB | LF | 500 |  |  |
| $657-6085$ | PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, <br> CONTRAST (BLACK-YELLOW), TP PB | LF | 500 |  |  |

SIGNALIZATION

| $636-1049$ | HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9 FOR <br> MAST ARM SIGNS | SF | 45 |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| $639-3014$ | STEEL STRAIN POLE, TP IV, INCL LUMINAIRE ARM \& 65' <br> MAST ARM | EA | 4 |  |  |
| $647-1000$ | TRAFFIC SIGNAL INSTALLATION NO - 1 | LS | 1 |  |  |
| $682-6233$ | CONDUIT, NONMETL, TP 3, 2 IN | LF | 2070 |  |  |
| $682-9954$ | DIRECTIONAL BORE - 4 IN | LF | 200 |  |  |
| $682-9956$ | DIRECTIONAL BORE - 6 IN | LF | 340 |  |  |
| $682-9958$ | DIRECTIONAL BORE - 8 IN | LF | 150 |  |  |
| $687-1000$ | TRAFFIC SIGNAL TIMING | LS | 1 |  |  |
| $926-2075$ | 900 MhZ DIRECTIONAL RADIO ANTENNA AND <br> CONNECTING CABLE | EA | 1 |  |  |

BRIDGE NO. 1-ST. AUGUSTINE CREEK

| $500-0100$ | GROOVED CONCRETE | SY | 680 |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| $500-1006$ | SUPERSTR CONCRETE, CL AA, BR NO -1 | LS | 1 |  |  |
| $500-2100$ | CONCRETE BARRIER | LF | 184 |  |  |
| $500-3102$ | CLASS A CONCRETE, BR NO-1 | CY | 72 |  |  |
| $507-8900$ | PSC BEAMS, AASHTO TYPE 1 MOD, BR NO-1 | LF | 1115 |  |  |
| $511-1002$ | BAR REINF STEEL - BR NO -1 | LB | 8400 |  |  |
| $511-3000$ | SUPERSTR REINF STEEL, BR NO -1 | LS | 1 |  |  |
| $516-1100$ | ALUM HANDRAIL, STD 3626 | LF | 184 |  |  |
| $520-2216$ | PILING, PSC, 16 IN SQ | LF | 1320 |  |  |
| $520-3216$ | TEST PILE, PSC, I6 IN SQ | EA | 2 |  |  |
| $520-4216$ | LOAD TEST, PSC, 16 IN SQ (IF REQD) | EA | 1 |  |  |
| $523-1100$ | DYNAMIC PILE TESTING | EA | 2 |  |  |
| $540-1102$ | REMOVAL OF EXISTING BR, BR NO - I | LS | 1 |  |  |
| $603-2024$ | STN DUMPED RIP RAP, TP 1,24 IN | SY | 1130 |  |  |
| $603-7001$ | PLASTIC FILTER FABRIC | SY | 1130 |  |  |

# BID SHEET ( REVISED ADDENDUM 1 ) <br> BENTON BOULEVARD EXTENSION 

ITEM DESCRIPTION
UNIT QUANTITY UNIT PRICE TOTAL

WATER AND SEWER RELOCATIONS

| 660-1230 | SEWER FORCE MAIN, 10 IN, - PVC SDR 18, C-900 | LF | 1400 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 660-1730 | SEWER MAIN, FUSIBLE PVC, 10 IN INSTALLED BY DIRECTIONAL BORE WITOUT CASING | LF | 300 |  |  |
| 660-2070 | LINE STOP - 10 IN, FOR SEWER FORCE MAIN, INCLUES INSTALLATION OF FITTING, PRESSURE TAP AND INSTALLATION OF BLIND FLANGE | EA | 5 |  |  |
| 660-2405 | AIR RELEASE VALVE ASSEMBLY, 2 IN INCL MANHOLE | EA | 2 |  |  |
| 660-9991 | TEMPORARY SEWER FORCE MAIN BYPASS, 10 IN PIPE, INCLUDES INSTALLATION, MAINTENANCE AND REMOVAL OF PIPE | LF | 2500 |  |  |
| 660-9992 | TEMPORARY SEWER FORCE MAIN BYPASS, PLUG AND BYPASS FITTINGS AT LINE STOP FITTING, INCLUDES INSTALLATION, MAINTENANCE AND REMOVAL OF PLUG AND FITTINGS AS NECESSARY TO IMPLEMENT THE BYPASS, AND INSTALLATION OF BLIND FLANGE ON LINE STOP FITTING AFTER REMOVAL OF BYPASS | EA | 6 |  |  |
| 670-1085 | WATER MAIN, 8 IN, PVC | LF | 30 |  |  |
| 670-5750 | LINE STOP - 8 IN , FOR WATER MAIN, INCLUDES INSTALLATION OF FITTING, PRESSURE TAP, INSTALLATION OF PLUG, REMOVAL OF PLUG AND InSTALLATION OF BLIND FLANGE ON LINE STOP FITTING | EA | 2 |  |  |

LIGHTING

| $681-4210$ | LIGHTING STD, 30 FT MH, POST TOP | EA | 28 |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| $681-9999$ | LUMINAIRE, TP 4, 4K, LED | EA | 28 |  |  |
| $682-1404$ | CABLE, TP XHHW, AWG NO 10 | LF | 16700 |  |  |
| $682-6222$ | CONDUIT, NONMETL, TP 2, 2 IN | LF | 5900 |  |  |
| $682-6225$ | CONDUIT, NONMETL, TP 2, 2 1/2 IN | LF | 100 |  |  |
| $682-9000$ | MAIN SERVICE PICK UP POINT | LS | 1 |  |  |
| $682-9002$ | MAIN SERVICE PICK UP POINT - NO 2 | LS | 1 |  |  |
| $682-9022$ | ELECTRICAL JUNCTION BOX, REINF PLASTIC MORTAR | EA | 10 |  |  |
| $682-9953$ | DIRECTIONAL BORE - 3 IN | LF | 1000 |  |  |

LANDSCAPING

| $700-9300$ | SOD | SY | 680 |  |  |
| :--- | :--- | ---: | ---: | ---: | :--- |
| $702-0212$ | CRATAEGUS VIRIDIS - 3 INCH CALIPER | EA | 6 |  |  |
| $702-0363$ | ILEX CORNUTA CARISSA - 3 GAL | EA | 5 |  |  |
| $702-0470$ | ILEX VOMITORIA NANA - 3 GAL | EA | 420 |  |  |

## BID SHEET ( REVISED ADDENDUM 1 ) <br> benton boulevard extension

| ITEM | DESCRIPTION | UNIT QUANTITY UNIT PRICE |  |  | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 702-0910 | QUERCUS VIRGINIANA - 3 INCH CALIPER | EA | 2 |  |  |
| 702-9005 | SPRING APPLICATION FERTILIZER | LB | 260 |  |  |
| 702-9025 | LANDSCAPE MULCH | SY | 900 |  |  |
| 725-0010 | WEED CONTROL | SY | 1600 |  |  |
|  |  |  |  |  |  |
| 999-9000 | FIELD ALLOWANCE | LS | 1 | 50,000 |  |
| TOTAL BID (Round off to whole dollar) |  |  |  |  |  |

Name/ Title

Company

Address

Phone/ Fax Numbers

E-mail

## SPECIAL CONDITIONS BENTON BOULEVARD EXTENSION

## 1. DESCRIPTION OF WORK:

The work will consist of furnishing all materials, labor and equipment for:
Construction of a two lane road with associated drainage and sidewalk between Highlands Boulevard and State Route 30 with a bridge at St. Augustine Creek and a box culvert at Little Hearst Branch. It will also include widening on Highlands Boulevard from Benton Boulevard to just past Shellbark Way. Intersection improvements include roundabouts at Meinhard Road and State Route 30 as well as a traffic signal at Highlands Boulevard.

Construction plans, technical specifications and some special provisions for the project are provided separately and are considered part of the contract documents.

All work under this contract shall be done in accordance with the Georgia Department of Transportation (GDOT) Standard Specifications, latest edition and subsequent supplemental specifications; the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD); and the following Shelf Special Provisions which are available on the GDOT website at www.dot.ga.gov/PS/Business/Source: 105-Control of Work, 109- Measurement and Payment, 150 Traffic Control ( 60 page version), 161- Control of Erosion and Sediment, 163Miscellaneous Erosion Control Items, 165- Maintenance of Temporary Erosion and Sedimentation Devices, 167-Water Quality Monitoring, 171- Silt Fence, 400 Hot Mix Asphaltic Concrete Construction, 647- Traffic Signal Installation, 800- Course Aggregates, 802Aggregates for Asphaltic Concrete, 828 - Hot Mix Asphaltic Concrete Mixtures; except for certain items deleted or modified in these documents. Project Specific Special Provisions for: Prompt Payment, 153-Field Office, 208-Embankment, 209-Subgrade, 520-Piling, 687-Traffic Signal Timing and 881- Fabric are included in this proposal and will also apply.

Water and Sewer relocations within the City of Savannah, with the exception of the 10 inch force main belonging to Port Wentworth shall be completed in accordance with the Plans and City of Savannah Specifications Section 02550 Water Distribution System and Section 02554 Wastewater Collection System. These specifications can be found on the City of Savannah website at www.savannahga.gov/914/Specifications.

Water and Sewer relocations within Port Wentworth and the 10 inch force main that runs from Highlands Boulevard north along the west side of the Benton Boulevard right of way to station $51+60$ shall be completed in accordance with the Plans and Port Wentworth Specifications as provided. Contractor to notify Chris Lee with Clearwater Solutions prior to beginning water or sewer line work in Port Wentworth.

Contract administration and inspection will be performed by Chatham County. Water and sewer relocation inspection may be performed by City of Savannah or a consultant for Port Wentworth as well as County personnel. Inspection within the Georgia Department of Transportation (GDOT) right of way may be performed by GDOT as well as County personnel.

Testing will be performed by an Independent Laboratory hired by Chatham County. A minimum of 24 hours notice will be required prior to any work which requires testing. Sampling and testing will be performed as per GDOT Sampling and Testing Guidelines.

All materials used in the process of completion of the work included in the contract will be furnished from Georgia Department of Transportation certified suppliers only as per the GDOT Qualified Products List available on the website www.dot.ga.gov/PS/Materials/QPL.

The Prime Contractor must be pre-qualified by GDOT at the time of the bid opening. All subcontractors must be qualified or registered by GDOT prior to beginning work on the project. All subcontractors must be listed in the bid package or approved by the County in writing prior to performing work on the project.

It is the responsibility of the bidder to carefully examine and fully understand the construction contract, plans, technical specifications and other documents hereto attached and make a personal examination of the site of the proposed work, and satisfy him or herself as to the actual conditions and requirements of the work.

The bidder further agrees that the cost of any work performed, materials furnished, services provided, or expenses incurred, which are not specifically delineated in the contract documents but which are incidental to the scope, intent, and completion of the contract, shall be deemed to have been included in the prices bid for the various items scheduled.
2. COMMENCEMENT AND COMPLETION: The Contractor shall agree to commence work under this contract within ten (10) working days after the Notice to Proceed (NTP) is issued, and complete all work within $\mathbf{5 4 5}$ calendar days after the 10 -day period. The Contractor shall work continuously on the project after the Notice to Proceed is issued.

Work is restricted to the area south of station $70+00$ until the environmental permit for the north end is approved. Permit approval is anticipated by the end of the year, 2018. No additional time with be approved as long as the permit is approved within six months of NTP.

The Contractor shall notify the County when the work is substantially complete by submitting in writing a request, for a Certificate of Substantial Completion (Substantial Completion shall mean the date when the work has progressed to the point where it can be utilized for the purpose for which it is intended). The Certificate shall be a mutually agreed upon document listing the date of substantial completion, items of the work remaining to be completed or corrected and shall fix the time within which the Contractor shall complete items listed therein (no more than 60 days). The Certificate shall be signed by the Contractors Construction Manager and the County Project Manager. Time charges shall recommence if all work, including corrective work but excluding permanent grassing, is not complete within the time specified in the Certificate.
3. MAINTENANCE: Once the Notice to Proceed has been issued, the Contractor is held responsible for all maintenance within the limits of the project throughout the duration of the contract without exception.
4. LIQUIDATED DAMAGES: Failure to complete all work within 545 calendar days plus any extension authorized in writing by the County Engineer shall entitle the County to deduct as "Liquidated Damages" from the monies due the Contractor the amount of $\$ 1000$ for each calendar day in excess of the authorized construction time. The Georgia Department of Transportation schedule for liquidated damages will not be used.
5. PRECONSTRUCTION CONFERENCE: The Contractor shall attend a pre-construction conference prior to commencing any work.
6. CONSTRUCTION SCHEDULE: The Contractor shall prepare a detailed schedule showing progress dates and completion dates of all phases of construction, including the critical path for the project. The schedule must be submitted and approved prior to commencement of work.
7. PAYMENT: Quantities are approximate and payment shall be for measurements of actual inplace work as per the plans and specifications. Any quantities exceeding the contract amount shall be requested by the Contractor in writing, for approval by the County Engineer, prior to the work being performed. Payment will not be made for additional quantities without prior, written approval of the County Engineer.
8. TRAFFIC CONTROL: Traffic Safety is paramount. All existing roads must be open to traffic at all times. The Contractor will be responsible for all traffic control, in accordance with the Manual on Uniform Traffic Control Devices, GDOT standards and details, GDOT Special Provision 150 and all other safety measures that will enhance the safety of the construction site. All costs associated with this work shall be included in the bid price for traffic control. The Contractor shall submit a traffic control plan for approval prior to beginning any work. Any changes to the approved traffic control plan must be submitted and approved in writing.

The Contractor shall submit a staging plan, including traffic control, for each roundabout at least four weeks prior to beginning work within twenty feet of the proposed roundabouts. The traffic control plan for the roundabout at State Route 30 will require review and approval by GDOT as well as the County Engineer.

No lane closures will be allowed as follows:
SR 30 eastbound before 9 am, westbound after 4 pm
Benton Blvd (existing) southbound before 9 am , northbound after 4 pm
Highlands Blvd eastbound before 9 am, westbound after 4 pm
9. INCIDENTAL ITEMS OF CONSTRUCTION: The cost associated with any incidental items of construction in which no specific pay items are set up for shall be included in the overall cost of the project.
10. FORCE ACCOUNT: When no agreement is reached for additional work to be done at Lump Sum or Unit Prices, then such additional work shall be done based on the following Cost-Plus-Percentage basis of payment. The Georgia Department of Transportation specifications for the use of a force account will not be used.
a. For work performed by the prime contractor/general contractor, the contractor shall be reimbursed for actual cost incurred in doing the work. and an additional payment of $15 \%$ to cover overhead and profit.
b. For work performed by a sub-contractor, the sub-contractor shall be reimbursed for actual cost incurred in doing the work, and an additional payment of $10 \%$ to cover overhead and profit. The contractor shall be allowed an overhead and profit mark-up not to exceed $7 \%$ on the subcontractor's price. The County shall not recognize subcontractors of subcontractors.
c. The term "Actual Cost" shall include the cost of material and labor as follows: i. Material cost - Direct cost of material, sales tax, freight and equipment rental.
ii. Labor cost - Man hour cost listed separately by trade, payroll costs including workman's
compensation, social security, pension and retirement.
d. The term "Overhead and Profit" shall include bonds (Payment \& Performance, Roof \& Wall), insurance (Liability, Builders Risk), permits, supervision costs (cost of subcontractor to supervise own work, cost of contractor to supervise work of subcontractor), proposal preparation and all administrative costs.
11. PRECONSTRUCTION INSPECTION: A preconstruction video, DVD or CD of photographs is required and must be submitted to Chatham County Department of Engineering for approval prior to the start of work. Special emphasis shall be given to record the existing condition of pavement, signs, walls, fences, driveways, utilities and any other improvements within 50 feet of the project limits.
12. GRADED AGGREGATE BASE: The graded aggregate base (GAB) will be granite only. Limerock and recycled or crushed concrete are not approved base materials for this project. The pay limits for the GAB will be at curb and gutter and six inches beyond the edge of pavement without curb and gutter.
13. BITUMINOUS TACK: Only Asphalt Cement, performance grade PG 58-22, PG 6422 or PG 67-22 will be allowed. Emulsified asphalt shall not be used.
14. STORM DRAINAGE: All storm drain pipe will be reinforced concrete pipe stamped by a Certified Pipe Technician. Pipe joints shall be wrapped with two layers of filter fabric four feet wide, centered on the joint with a minimum overlap of one foot. The cost for this shall be included in the bid price for storm drain pipe. Shop drawings for all drainage structures shall be submitted for approval. Contractor shall submit as-built plans (marked with any changes) and post construction survey invert elevations for storm drainage upon completion of the work.
15. WORK HOURS: Contractor work hours shall be restricted to daylight hours on weekdays unless specifically approved otherwise at least 48 hours in advance. Approval is at the discretion of the County Engineer. The Contractor is responsible for obtaining any waivers or permits from the City of Savannah or Port Wentworth as required due to noise levels from piling driving or construction equipment.
16. UTILITIES: The Contractor will be responsible for all utility coordination. including required relocation, and protection of utility facilities. The City of Savannah will be responsible
for relocation of the street lights on Highlands Boulevard. The Contractor will be responsible for coordinating the street light relocation with the City.
17. PRIME CONTRACTOR SUPERINTENDENT: A qualified Superintendent of the prime contractor shall be on-site at all times during construction activities, including those of subcontractors. A sub-contractor will not be an approved representative of the prime contractor. If the Superintendent is not present to control the work, work may be suspended by County personnel until such time as the Superintendent is on-site and has adequately addressed any problems or concerns.
18. COOPERATION BETWEEN CONTRACTORS: The proposed Effingham Parkway will connect with the proposed roundabout at Benton Boulevard and State Route 30. That project may begin prior to the completion of this project. If so, coordination of work and traffic control with the other contractor will be required to minimize duplication of effort and disruption to traffic.
19. RED ROBIN COURT: Red Robin Court may be closed as needed for construction within the Benton Boulevard right of way but should not be kept closed without cause. When practical, the road should be open to roadway and pedestrian traffic. Safe passage for pedestrian traffic shall be provided at the end of each work day.
20. SPECIAL DESIGN SPILLWAYS: Special Design Spillways will be paid for as each, this will include all work and materials to complete the spillways as per detail on sheet 38-0001 including a two foot transition between section $\mathrm{C}-\mathrm{C}$ to section $\mathrm{B}-\mathrm{B}$. Required flume (section BB) beginning from the end of the transition will be paid for by the square yard for concrete slope drain. Side walls shall be five inches minimum. Top for the spillway must extend a minimum of two feet beyond the sidewalk.
21. HIGHLANDS BOULEVARD: All traffic control and grading complete work to be completed between station $634+00$ and $647+60$ on Highlands Boulevard shall be included in the bid prices for Highlands Boulevard.
22. DYNAMIC PILE TESTING: Separate pay items are set up for test piles and for dynamic pile testing. Dynamic pile testing will be at the discretion of the County Engineer.
23. SOIL SURVEY \& BFI: The Soil Survey and Bridge Foundation Investigation Reports will be made available for information only, separately from the bid package for this project.
24. STATION NUMBERS: Contractor to place and maintain stakes or paint (on pavement) with the centerline station numbers at 100 foot intervals along the project corridor including the mainline, Highlands, Meinhard and S.R. 30, within the right of way and within 50 ft . from the centerline. If the stakes or paint are offset from the centerline, offset distances must be noted.
25. CLASS B PAVEMENT WIDENING: The pay item for Class B Concrete Base or Pavement Widening shall be understood to be for those areas where there is a gap between the existing pavement to remain and the proposed curb and gutter. Up to six inches of the existing pavement may need to be removed to provide a neat edge. The cost for class B concrete to
replace existing pavement removed beyond six inches shall be the responsibility of the Contractor.
26. MAILBOXES: Mailboxes shall be relocated as required for construction. This work will be included in the bid price for grading complete. Any mailboxes that need to be moved to facilitate construction must be reset the same day and placed in a location as to allow for mail delivery.
27. UNSUITABLE MATERIAL: Some unsuitable material is expected to be encountered on this project based on the soil survey. Pay items are set up with estimated quantities for undercut excavation, embankment stabilization fabric, underdrain and slope underdrain. Locations for these items are not specified on the plans. Use of these pay items will be as directed by the County Engineer in any combination which will most efficiently address subgrade conditions. The Contractor should expect to install underdrain between stations $57+00$ to $62+00$ as a minimum. The Contractor is responsible for minimizing exposure of the subgrade to rain and heavy equipment. Temporary drainage may be required to keep water from ponding on subgrade soils. Once grading begins in cut sections, the Contractor is expected to work continuously to prepare the subgrade for placement of base material. Undercut will not be paid for due to Contractor negligence.
28. PARCEL 22: Contractor will place 22 SY of Aggregate Surface Course, six inch thickness at the end of the paved driveway, within the driveway easement at driveway number 18 , station $305+50$ Lt on State Route 30.
29. FIELD CONDITION ALLOWANCE: The field condition allowance shown on the bid sheet shall belong to Chatham County. The purpose of this Allowance is to allow the County to designate actions associated with completion of the project which are not indicated on the plans, but which are dictated by field conditions. Bidders shall not use this Allowance to assume any Contractor costs known or unknown at the bidding. Chatham County must approve use of the Allowance. All bidders shall include this Field Condition Allowance within their base bid. Any unused allowance shall revert to Chatham County.












