



Engineering Services Committee      Committee Room- 9/11/2006- 1:30 PM  
Meeting

### **ENGINEERING SERVICES**

1. Motion to approve an Deed of Easement Dedication from Augusta to the Augusta Utilities Department.  [Attachments](#)
  
2. Approve Contract Amendment #2 to Gannett Fleming's professional services contract for the Highland Avenue Improvements Project to include additional construction phase services in the amount of \$539,858.  [Attachments](#)
  
3. Approve Contracts with Utility Service, Co., Inc. for maintenance of the Old Waynesboro Road Water Tank and the Brown Road /Pine Hill Water Tank.  [Attachments](#)
  
4. Discuss Diamond Lakes Way. (Requested by Commissioner Williams)  [Attachments](#)
  
5. Motion to approve an Option for Right-of-Way between Frank W. Capers, Jr. and Estate of Creed Byrd as owners, and Augusta, Georgia, as optionee, in connection with the St. Sebastian Way Project, for 0.301 acre (13,099.60 sq. ft.) in fee and 0.062 acre (2,717.31 sq. ft.) of permanent construction & maintenance easement for the following property located at 1424 Broad Street for a purchase price of \$367,262.00, minus \$45,000.00 for retention of the building located on property, for a total purchase price of \$322,262.00.  [Attachments](#)
  
6. Motion to approve an Option for Right-of-Way and easement between William R. Coleman, Jr., as owner, and Augusta, Georgia, as optionee, in connection with the Washington Road Intersection Improvements Project for 0.087 acres (3,803.23 sq. ft) in fee, more or less, and  [Attachments](#)

1,185.47 sq. ft. of permanent construction and maintenance easement, more or less, and 909.86 sq. ft. of temporary construction easement, more or less, for the following property located at 2902 Washington Road for a purchase price of \$115,000.00.

7. Motion to approve an Option for Right-of-Way between Stephen I. Dekle, as owner, and Augusta, Georgia, as optionee, in connection with the St. Sebastian Way Project, for four project parcels located at 1499 Ellis St., and 218, 214 & 210 Fifteenth St. for a purchase price of \$335,000.00, less the sum of \$60,000.00 due to Owner to retaining his building, Said subject property consisting of 0.02 acre (799.87 sq. ft.) in fee and 0.025 acre (1,090.16 sq. ft) of permanent construction and maintenance easement.  [Attachments](#)
  
8. Motion to approve an Option for Right-of-Way between Charles Holbrook, as owner, and Augusta, Georgia, as optionee, in connection with the St. Sebastian Way Project, being Project Parcel 15, (Tax Map 36-3, Parcels 16 & 16, consisting of 0.143 acre (6,219 sq. ft.) in fee and 0.043 (1,882.02 sq. ft.) of permanent construction & maintenance easement for property located at 1434 and 1438 Broad Street for a purchase price of \$141,757.00. Due to the property being taken, a small tract or remnant of property, remains and approval is sought to purchase this property for the agreed to amount of \$5,000. The total purchase price is \$146,757.00.  [Attachments](#)
  
9. Motion to approve an Option for Right-of-Way between University Health Services, Inc., as owner, and Augusta, Georgia, as optionee, in connection with the St. Sebastian Way Project, for 0.05 acres (2155.76 sq. ft) in fee and 0.067 acres (2,909.54 sq. ft.) of permanent construction & maintenance easement and one temporary driveway easement for the following property located at 1402 Walton Way for a purchase price of \$51,400.00.  [Attachments](#)
  
10. Presentation by Ethel Jones/J. Moore regarding drainage concerns and other various issues.  [Attachments](#)

11. Motion to approve and accept Georgia Power Company Governmental Encroachment Agreement for Easement No. 30894.  [Attachments](#)
12. Report from the Engineering Department regarding drainage issues of the Greater St. John Baptist Church on Ellis Street. (Referred from September 5 Commission meeting)  [Attachments](#)
13. Authorize award of bids for Pre-purchased of Equipment for the Highland Ave Improvements Project to the lowest responsive bidders. Bid Item # 06-098 Medium Voltage Transformers Bid Item # 06-099 Switchgear and Large MCC's Bid Item # 06-100 Sodium Hypochlorite Generation Bid Item # 06-101 Pumps Bid Item # 06-103 Motor Operated Valves Bid Item # 06-105A Manual Yard Valves Bid Item # 06-106 New Filter Equipment and Air blower Bid Item # 06-107 Existing Filter Equipment and Air blower  [Attachments](#)
14. Accept Trade, Exhibit and Event Center Taskforce recommendation for site and operational agreement. (Referred from September 5 Commission meeting)  [Attachments](#)
15. Motion to grant 15 x 1000 foot easement to Xethanol Corporation across property located on Levee Road behind 1736 Lovers Lane.  [Attachments](#)
16. Authorize award and execution of a contract amendment to the Construction Management at Risk Contract with Parsons Water and Infrastructure for the construction of the Highland Ave Improvements Project in the amount of \$63,521,523.  [Attachments](#)
17. Approve the list of streets proposed for submittal to the Georgia Department of Transportation for inclusion in 2007 LARP.  [Attachments](#)



**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Augusta - Mike Padgett Hwy. Deed**

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**Department:** Augusta Utilities Department, Max Hicks Director

**Caption:** Motion to approve an Deed of Easement Dedication from Augusta to the Augusta Utilities Department.

**Background:** AUD will shortly construct a new water main along Mike Padgett Highway, from Tobacco Road to Marvin Griffin Road. The water main will cross property owned by Augusta.

**Analysis:** Executing the Easement Deed of Dedication will allow it to be filed in the the realty records section of the Office of the Clerk of the Superior Court of Richmond County, Georgia.

**Financial Impact:** None.

**Alternatives:**

**Recommendation:** Approve the Easement Deed of Dedication.

**Funds are Available in the Following Accounts:** N/A

**REVIEWED AND APPROVED BY:**

**Finance.  
Procurement.  
Disadvantaged Business Enterprise.  
Administrator.  
Clerk of Commission**



After recording, please return to:  
The Augusta Utilities Dept.  
360 Bay Street, Suite 180  
Augusta, GA 30901  
(706) 312-4143

**STATE OF GEORGIA  
COUNTY OF RICHMOND**

**DEED OF EASEMENT DEDICATION**

**WHEREAS**, Augusta, Georgia is the owner of certain property located on the West side of Willis Foreman Road, being generally identified as Tax Map 157, Parcel 18.8, which parcel contains 188.45 acres, more or less, and is bounded on the North by property now or formerly of Eddie and Darlynn Faircloth and property now or formerly of the Corinth Baptist Church, on the East by the Central of Georgia Railroad right-of-way and property now or formerly of Leroy H. Simkins, on the South by the right-of-way of Tobacco Road, property now or formerly of Lester A. Fox and property now or formerly of Kayo Oil Company, and on the West the right-of-way of U. S. Highway 56 (Old Savannah Road n/k/a Mike Padgett Highway), reference is hereby made to a plat prepared by Harbin & Harbin, dated December 26, 2001, and filed in the Office of the Clerk of the Superior Court of Richmond County, Georgia in Realty Book 845, Pages 450-455; said property being the same as that conveyed to Augusta, Georgia by way of an Order recorded in said clerk's office in Realty Book 806, Pages 2004-2006; and

**WHEREAS**, the Augusta Utilities Department desires to record a additional Permanent Utility Easement across this property for the purposes of installing a sanitary sewer line; and

**WHEREAS**, Augusta desires to dedicate this easement for the use of the Augusta Utilities Department;

**NOW, THEREFORE, THIS INDENTURE**, made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2006, by Augusta, Georgia, a political subdivision of the State of Georgia, hereinafter referred to as Party of the First Part, for the use and benefit of the Augusta Utilities Department, a department of Augusta, Georgia, as Party of the Second Part;

**W I T N E S S E T H:**

The Party of the First Part, in consideration of the public benefit to be derived by Augusta and its citizens and for valuable consideration, the receipt and sufficiency of which hereby acknowledged, has

granted, bargained, sold and conveyed, and be these presence does hereby grant, bargain, sell and convey unto Party of the Second Part all that tract of parcel of land located in Augusta, Georgia, shown as "Permanent Easement", further shown to contain 1,370 square feet (0.031 acre), and is more fully described on a plat prepared for Augusta-Richmond County by William R. Gore Professional Land Surveyors, Inc., dated July 2006, attached hereto and made a part hereof, to which reference is made for a more accurate and complete description of the metes, bounds and courses, and being for the purpose of laying, relaying, replacing, installing, extending, operating, repairing and maintaining pipelines transporting and carrying utility services.

**THE PARTY OF THE FIRST PART** does also grant, bargain, sell and convey unto the Party of the Second Part, its successors and assigns, the right, but not the duty, to clear, and keep clear, all trees, undergrowth and other obstructions from said permanent easement, along with the free right of ingress and egress to and from said permanent easement for all purposes stated in this instrument.

**TO HAVE AND TO HOLD** the aforesaid rights, ways, easements, privileges and appurtenances unto the Party of the Second Part, its successors and assigns, in perpetuity.

**IN WITNESS WHEREOF**, the Party of the First Part causes this instrument to be executed the day and year first above written.

**AUGUSTA, GEORGIA**

\_\_\_\_\_  
Witness



By: \_\_\_\_\_  
As its Mayor

ATTEST:

By: \_\_\_\_\_  
As its Clerk

\_\_\_\_\_  
Notary Public Richmond County, Georgia

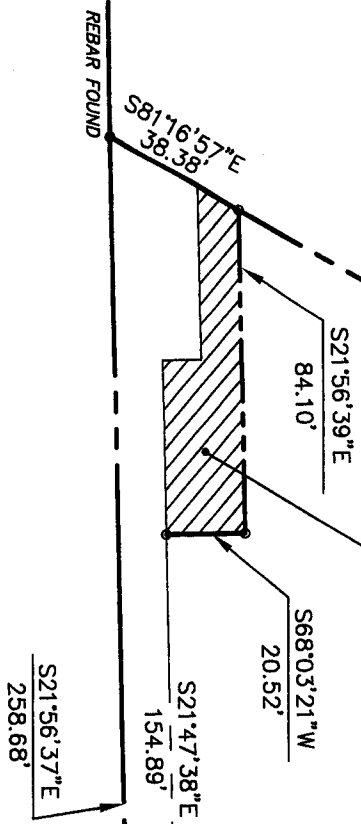
My Commission Expires: \_\_\_\_\_

(SEAL)

- SOUTHSIDE BAPTIST CHURCH  
OF AUGUSTA, INC. -  
(TAX MAP 157-0-018-07-0)  
3612 MIKE PADGETT HIGHWAY

PROPERTY LINE, TYP.

PERMANENT EASEMENT



RIGHT OF WAY

RIGHT OF WAY  
MONUMENT FOUND

S 20°53'53" E  
N 20°53'53" W

**MIKE PADGETT HIGHWAY**

RIGHT OF WAY





**Engineering Services Committee Meeting  
9/11/2006 1:30 PM**

**Contract Amendment #2 for Professional Services with Gannett-Fleming for the Highland Avenue  
Water Treatment Plant Improvements Project**

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<b>Department:</b>	Utilities
<b>Caption:</b>	Approve Contract Amendment #2 to Gannett Fleming's professional services contract for the Highland Avenue Improvements Project to include additional construction phase services in the amount of \$539,858.
<b>Background:</b>	Gannett Fleming was retained as the design engineering firm for the Augusta Utilities Department's Highland Avenue Water Treatment Plant Improvements Project. Gannett Fleming completed a detailed 90% design document in 2004. At the 90% phase, the Augusta Utilities Department (AUD) determined that the best delivery method for this project would be through the "Construction Management at Risk" method rather than the conventional "Design-Bid-Build" method. Rather than proceed with finalizing the design, it was determined that AUD should get the Construction Manager at Risk Contractor under contract and then finalize the design documents. In early 2005 the AUD retained Parsons Water & Infrastructure as the Construction Manager at Risk on the Highland Avenue Water Treatment Plant Improvements Project.
<b>Analysis:</b>	Gannett Fleming's existing professional services contract does not include many of the tasks required under the construction Phase of the Construction Management at Risk delivery method.
<b>Financial Impact:</b>	Funds for the additional engineering services are allocated from the 2004 Bond Issue, under account number: 511043410-5212115/80120100-5212115
<b>Alternatives:</b>	No alternatives are recommended.

**Recommendation:** We recommend the Commission authorize the approval of an amendment to Gannett Fleming's professional services contract for the Highland Avenue Improvements Project to include additional construction phase services in the amount of \$539,858.

**Funds are Available in the Following Accounts:** 511043410-5212115 80120100-5212115

**REVIEWED AND APPROVED BY:**

**Finance.  
Procurement.  
Disadvantaged Business Enterprise.  
Administrator.  
Clerk of Commission**

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**Gannett Fleming**

**Gannett Fleming, Inc.**  
Building 100, Suite 120  
2743 Perimeter Parkway  
Augusta, Georgia 30909  
**Office: (706) 855-1085**  
Fax: (706) 855-5183  
[www.gannettfleming.com](http://www.gannettfleming.com)

August 18, 2006

Mr. Drew Goins  
Assistant Director Water Production  
Augusta Utilities Department  
360 Bay Street, Suite 180  
Augusta, Georgia 30901

Subject: CIP Project No. 20100  
Highland Avenue Water Treatment Plant Expansion and Improvements  
Revised Proposal for Construction Phase Services

Dear Drew:

Gannett Fleming, Inc. (GF) is pleased to provide Augusta Utilities Department with the enclosed scope of work and cost estimate for providing professional services during the construction phase of the subject project. We have prepared this scope and cost based on our current understanding of the project and the negotiation meeting of July 27, 2006.

The scope and costs presented herein do not include what has already been incurred by GF on the Winter Work Package. Based on our expected billings through August 2006, we estimate the remaining existing construction phase budget for GF at \$791,832. Our estimated costs to provide the services stated herein is \$1,331,690. Therefore, we are requesting that our existing contract upper limit amount be increased by \$539,858 to account for the required services. These costs are broken out in the cost estimate section below and accompanying spreadsheet. We have also included a summary table that provides a comparison to the original 2002 proposal costs with justification for the new costs.

Attached to this proposal is our good faith effort documentation for meeting Disadvantaged Business Enterprise (DBE) goals for this project. We are pleased to be able to provide 9% of this contract amendment amount to local MBE firms.

We appreciate the opportunity to serve AUD on this critical project.

Sincerely,

GANNETT FLEMING, INC.

R. Tom Clark, P.E.  
Vice President

cc. Bob Davis, CH2M HILL

**AUGUSTA UTILITIES DEPARTMENT**  
**Expansion and Improvements to the Highland Avenue Water Treatment Plant**  
**Construction Phase Professional Services**

**SCOPE OF WORK**

**Submitted by Gannett Fleming, Inc.**  
**August 17, 2006**

**Background Information**

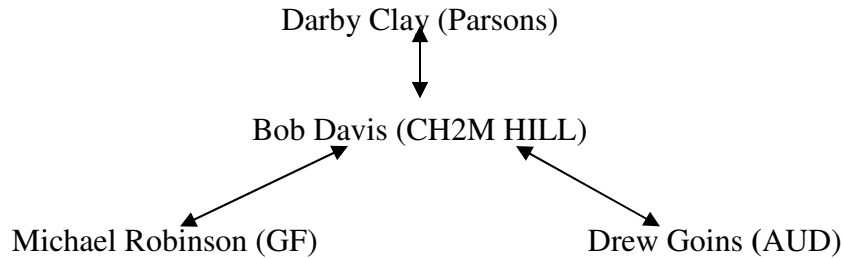
This document presents Gannett Fleming, Inc.'s (GF's) proposed scope of services to provide professional engineering services during the Construction Phase of the expansion and improvements to the Highland Avenue Water Treatment Plant in Augusta, Georgia. The tasks below correspond to our original March 14, 2002 proposal, and have been modified based on changing from the traditional design-bid-build approach to a CM at Risk delivery method, various design changes, and our current understanding of the project. Throughout this proposal the term Program Management Team (PMT) refers to Augusta Utilities Department (AUD), Parsons, CH2M HILL, and GF collectively. We understand that each member of the PMT has the following general role during the Construction Phase:

- AUD – Owner
- Parsons – Construction Manager responsible for constructing the expansion and improvements per the GMP Contract Documents; in essence the General Contractor on the project. Parsons will also provide a full time resident supervisor and provide overall QA/QC for their work on the construction project.
- CH2M HILL – AUD Program Manager, or the Owner's representative, providing a resident project representative (observer) and the primary point of contact between Parsons and AUD/GF.
- GF – Design Engineer

**Communications**

Project Expedition will be the primary communication tool during the project. In general, Bob Davis of CH2M HILL will serve as the primary point of contact, and will receive all Parsons submittals and requests for information (RFIs) for distribution to

AUD and GF to address as appropriate. The GF Project Expedition primary contact is Michael Robinson; Tom Clark will continue to serve as GF's Project Manager on the project. Darby Clay will be the primary point of contact for Parsons. The formal communication pathway is therefore:



This is not to say that parties can not communicate directly with each other on issues, but the above communication pathway shall be respected, especially as it relates to, non-conformance issues, shop drawings/submittals and RFIs.

### **Timeframe for Services**

The scope of services described herein is understood to begin upon approval of the GMP by the Augusta Commission and will last through Final Completion of the plant improvements, submittal of the Final O&M Manuals, and submittal of record drawings. We have assumed a project duration of 3 years.

### **Scope of Services**

#### **Task 25 - Pre-Construction Services**

*Task 25.1 - Attend the Pre-Construction Conference and Answer Questions* – We understand there may be multiple “pre-construction conferences” as various portions of the work are begun. However, we assume that for a project this size there will be an initial Pre-Construction Conference that will in essence serve as a construction kickoff meeting. GF will attend this initial pre-construction meeting, and provide design technical support and input to the PMT as necessary. GF assumes that Parsons will schedule the meeting and record/distribute meeting notes. We also assume the meeting will be held in Augusta and last about 4 hours. We have included attendance by the GF Project Manager (Clark) and Civil Engineering Discipline Manager (Robinson) at the meeting.

Task 25.2 - Review and Process Shop Drawings and Submittals – Parsons will submit all shop drawings and project submittals directly to CH2M HILL, who will distribute them to GF and AUD for review as required. Project Expedition will be used to log the submittals. The attached table presents each reviewer’s responsibility for each anticipated submittal type. General rules for submittal/shop drawing review are:

- AUD will review – product, material, interior/exterior furnishing, and color samples; product warranties; cost information.
- CH2M HILL will review – single submittals that are off-the-shelf standard products and are not electrified (primarily architectural items); construction schedules; contractor layout/staging plans; contractor work plans and quality control plans; product certificates; delivery tickets; contractor field reports; and other relatively simple submittals that would not necessarily require input from GF.
- GF will review – all other submittals, including but not limited to: customized products; products that are electrified; standard off-the-shelf products if submitted as part of a larger package requiring GF review; large equipment/product shop drawings related to equipment (Division 11), special construction (Division 13), and mechanical (Division 15) specification sections; virtually all electrical submittals (Division 16); and items requiring review as an acceptable alternate.

Since there are 16 bid packages being submitted (4 major ones to general contractors for specific building/structures and 12 additional trade specific bid packages), GF could potentially receive the same submittal information from multiple contractors. We have attempted to estimate the number of potential contractors providing shop drawing submissions and the resulting number of submittals for review in determining the effort required for this task.

GF will review shop drawings/submittals for conformance with the contract drawings and specifications. The submittal review process will be as follows: Parsons will receive 8 copies of submittals from subcontractors and material suppliers, keep one copy, and submit 7 copies to CH2M HILL for distribution. CH2M HILL will keep an original copy of the submittal and forward 6 copies to AUD and/or GF for review. GF will mark up 6

sets of shop drawings/submittals and return five 5 sets to CH2M HILL for subsequent distribution to Parsons and AUD. The level of effort for this task is based on GF's review of two submissions of each shop drawing package that are specified for GF's review in the attached table.

## **Task 26 - Construction Services**

Task 26.1 - Answer Parsons Questions and Provide Written Clarification on Design – GF will respond in writing to written questions on the Contract Documents or Requests for Information (RFIs) during the construction phase that CH2M HILL can not address. GF estimates that about 300 RFIs will be generated by Parsons on this project. Out of the 300 RFIs, up to 200 of them will need moderate to extensive investigation, and the remaining 100 RFIs deal with procedural issues that can be answered easily. GF's level of effort for this task will only address the 200 more complicated RFIs; CH2M HILL will be responsible to address the 100 procedural ones. We also assume that since there is the potential for multiple contractors, CH2M HILL will screen the RFIs and provide generic answers to all affected contractors to avoid GF having to respond multiple times to the same RFI.

Task 26.2 - Project Management – The GF Project Manager will provide the following services on this project:

- Manage the GF project team resources and costs (average of 7 hours/month)
- Prepare monthly project status reports and invoices to CH2M HILL (2 hours/month)
- Attend one special issues meeting a month (2 hours/month)
- Attend quarterly project status meetings (1 hour/month)

The level of effort for this task equates to an average of 12 hours/month for the GF Project Manager over the duration of the 3-year project.

Task 26.3 - Review Contingency and Allowance Allocations and Submit Written Clarification – GF will review up to 25 Contingency and Allowance Allocations submitted by Parsons and submit written clarification and comments to the PMT as required. This task also includes making design changes to the plans due to field changes

(for example, re-designing buried piping in Central Avenue due to unforeseen conditions and issuing sketches or corrected design plans to reflect those changes).

Task 26.4 - Assist in Facility Start-up Support, Substantial/Final Completion and Factory Inspections –

Facility Start-up Support – GF will support multiple facility start-ups with process and instrumentation engineers based on the process and pumping equipment being substantially complete and placed into service at multiple periods in the construction schedule. We have accounted for field visits and support of the treatment plant operations staff during the process start-up of up to three separate process trains, including the pre-chemical feed and mixed water system; the new filters; and the old filter rehabilitation. Our proposal includes three, 5-day site visits for a process engineer.

We have also accounted for field visits and support of the instrumentation vendor start-up by a GF instrumentation engineer for up to 5 visits for start-ups of the new filter/chemical building; Fort Gordon/washwater pump station; and the old filter rehabilitation. These 5 visits include two, 3-day visits for the pumping equipment and old filter rehabilitation and three visits of 5 days each for the new filter building including chemical systems.

This task also includes effort by the GF lead civil engineer to determine the impacts of new filter startup waste flows to Turknnett Springs and recommendations for any downstream modifications to allow for successful equipment startup.

Substantial/Final Completion and Factory Inspections - We understand there could be multiple Substantial Completions on this project as various phases of the work are completed and one Final Completion for the project as a whole. GF will accompany CH2M HILL's resident project representative during each Substantial Completion and the Final Completion inspection for this project. GF will provide a mechanical engineer, process design engineer, electrical engineer, instrumentation and controls engineer, civil engineer, structural engineer, and architect for these inspections according to the table below. After project completion, GF will also prepare and submit an Engineer's Certification per Georgia EPD requirements that generally states to the best of the



Engineer’s knowledge the project was constructed in general accordance with the plans and specifications.

Inspection	Level of Effort (hours)						
	ME	PE	EE	I&C	CE	SE	AR
Substantial Completion Inspections:							
New Filter Building	8	8	8	8	0	0	8
UV/Pump Station	4	4	4	4	0	0	4
Old Filter Building	4	4	4	4	0	0	4
Clearwell Wall	0	0	0	0	4	8	4
Flocculator - Sedimentation Basin Trains (3 total)	0	0	0	0	6	8	0
Vaults, Manholes, and Miscellaneous Civil Work Products	0	0	0	0	24	0	0
Site Electrical Work	0	0	16	0	0	0	0
Auxiliary Pump Station (by ZEL)	0	0	0	0	0	0	0
Final Completion Inspection	8	8	8	8	8	0	8
<b>Total Hours</b>	24	24	40	24	42	16	28

ME = mechanical engineer; PE = Process Engineer; EE = Electrical Engineer; I&C = Instrumentation and Controls Engineer; CE = Civil Engineer; SE = Structural Engineer; and AR = Architect.

GF will also attend the following meetings:

- Two, five-day instrumentation factory acceptance tests for the SCADA system
- A two-day instrumentation system kickoff meeting with the SCADA vendor, AUD, and CH2M HILL
- A one-day field instrument review meeting to review the anticipated field instrument submittal of the vendor
- A one-day instrument review meeting to review the preliminary control screens and report formats of the vendor
- One five-day factory acceptance test for the vertical turbine pumps (4 Fort Gordon and 2 Washwater pumps)

- Two, two-day factory acceptance tests for electrical equipment (medium voltage switchgear, generators, etc)

GF will prepare and submit brief reports and meeting summaries to the PMT that document the results of our inspections and meetings.

Task 26.5 – Provide As-Needed Civil Engineering Construction Assistance – This task includes the GF Civil Engineering Discipline Manager (Robinson) attending construction meetings as requested and responding to questions and addressing issues as they arise that are not in the form of a formal RFI. We have included an average level of effort equivalent to 16 hours per week for 1-1/2 years to accomplish this task.

### **Task 27 - Post-Construction Services**

Task 27.1 - Prepare Draft O&M Manuals - GF will prepare draft operation and maintenance (O&M) manuals for operation of the facility as a whole. The O&M manuals will generally include the following:

- Narrative of Overall Plant Operation
- Process Description (including PFDs)
- Process Chemistry
- Review of SCADA System and Plant Instrumentation
- Startup, Shutdown, and Operating Procedures of Each Major Process Unit (Raw Water System (Feed, Storage, Outlet, and Supply), Pre-Flash Mix Facilities, Flocculators, Sedimentation Basins, Filters, Clearwells, Chemical Facilities, Pump Stations, and Electrical/Standby Power System)
- Maintenance of Each Major Process Unit (general overview; not detailed instructions)
- Laboratory Procedures and Water Quality Sampling & Analysis
- Emergency Procedures
- Safety Procedures
- Security Procedures
- Vendor Contacts and Parts List

The O&M Manual will be a work-in-progress document that will be added to as each process unit comes on line. GF will submit initial draft O&M Manual versions to AUD and CH2M HILL for review 3 months prior to startup of each process unit. GF will work with equipment manufacturers and plant operators during development of the O&M Manual. GF will request equipment vendors to submit both hard copy and electronic version of their O&M manuals. We will also coordinate the O&M Manual with Doc Maestro as necessary. GF envisions conducting three 4-hour workshops by a process engineer (assumed to take place in three separate trips to Augusta) with the operators to solicit input and coordinate system operation.

This task also includes preparation of a new Emergency Response Plan that will be patterned after the one prepared for the N. Max Hicks Plant and include procedures to follow in case of plant emergencies.

Task 27.2 - Conduct Operator Startup Training – GF will conduct training of plant operators as the plant improvements are being made and each process unit is placed on line. The operator startup training will be based on draft O&M procedures developed by GF, and will focus on each major process unit and overall facility operation as a whole. GF assumes that individual equipment O&M training will be provided by equipment suppliers without GF's presence. Since equipment and unit processes will be started up and placed on line at different times, it will be necessary to conduct multiple training modules. We have assumed ten different training modules will be required (each of the nine major process units identified above in Task 27.1 (5<sup>th</sup> bullet) plus an overall plant-wide training), and that each module is only required to be administered once to train all three operator shifts. GF assumes each training module, which will involve both classroom and hands-on training, will last two hours each. We also assume that multiple modules can be presented at one time and have budgeted five separate plant visits by the civil, process, and instrumentation engineers to conduct this training plus preparation time. An electrical engineer will also be provided for the training involving the electrical standby/power system. We will prepare and submit to AUD a training schedule with specific dates approximately 6 months prior to the first training event. This schedule will include both system and vendor-provided training. GF will also prepare a professionally-

made video of the training modules and deliver the training videos to AUD for training of future operators.

*Task 27.3 - Prepare Record Drawings* – GF will prepare Record Drawings based on Parson’s field copy of the marked up drawing set that has been reviewed and approved by CH2M HILL. Two sets of Record Drawings will be submitted to AUD, and one set each will be submitted to Parsons and CH2M HILL. Each set of Record Drawings will consist of both hard copy (one full size and one half-size set) and AutoCAD and PDF digital formats. When completed, GF will return Parson’s marked up drawing set of plans to AUD.

*Task 27.4 - Finalize O&M Manuals Based on Operator Training* – GF will make modifications to the draft O&M Manuals based on lessons learned during operator training and any review comments, and submit Final O&M Manuals to CH2M HILL and AUD (a total of six hard copies and two electronic versions will be provided).

**Not Included in GF Scope of Services**

The following items are not included in this scope of services provided by GF:

- Review of Parson’s monthly payment applications
- Resident Inspector/Observer or Resident Project Representative (RPR) services
- Soils and materials testing services; clearwell CT tracer studies
- Providing additional copies of design documents, shop drawing/submittal review comments, and other deliverables other than what is stated herein
- Attendance at local project meetings by GF staff that reside outside of Augusta other than that mentioned in Task 26.4 for factory tests and facility inspections
- Preparation and distribution of meeting notes
- With the exception of O&M Manuals, GF will not provide Construction Phase Services related to the Auxiliary Pump Station; we assume ZEL Engineers will be responsible for reviewing shop drawings, responding to RFIs, responding to contingency allocations, witnessing factory pump tests (if desired by AUD), and conducting inspections related to the Auxiliary Pump Station
- Permit fees

**AUGUSTA UTILITIES DEPARTMENT**  
**Expansion and Improvements to the Highland Avenue Water Treatment Plant**  
**Construction Phase Professional Services**

**COST ESTIMATE**

**Submitted by Gannett Fleming, Inc.**  
**August 18, 2006**

GF proposes to complete the scope of services above on a time and materials basis for a not to exceed upper limit amount of \$1,331,690. We propose to continue invoicing AUD on a monthly basis under our existing contract terms and at the labor rates provided in the attached breakdown of costs spreadsheet. Our invoices will provide a breakdown of labor and expenses at the subtask level.

These costs do not cover our effort already expended on the construction phase services for the Winter Work Package. An accounting of the requested budget amendment to our existing contract is provided below.

Current Contract Upper Limit Amount	\$4,476,333
Amount Expended Through July 2006	<u>\$3,677,501</u>
Available Budget Through July 2006 (difference)	\$ 798,832
Anticipated Amount to be Invoiced in August 2006	<u>\$ 7,000</u>
Available Budget Through August 2006 (difference)	\$ 791,832
Cost Estimate for Construction Phase Services	\$1,331,690
Additional Amount Being Requested to Adjust Upper Limit	\$ 539,858

(attached Cost Breakdown spreadsheet – excel file)

The table below presents a comparison to our 2002 proposal costs for construction phase services and the rationale for the additional requested fees.

<b>Task Description</b>	<b>2002 Proposal Costs</b>	<b>Current Estimate</b>	<b>Notes</b>
25.1 – Attend Pre-Construction Conference	\$4,490	\$1,090	Scope was reduced to just having GF attend the conference (not lead it) and assuming limited involvement in responding to questions.
25.2 – Review of Shop Drawings/Submittals	\$275,800	\$350,020	Scope was expanded to account for review of submittals from multiple contractors and went from an assumption of reviewing 300 “complex” submittals to reviewing about 500 to 800 submittals plus inflation of 8% over 2 years (4% per year) for extending the project.
25.3 – Attend 3 Meetings to Resolve Design Issues	\$14,780	\$0	This task was eliminated from the current scope of services.
<b>Subtotal – Pre-Construction</b>	<b>\$295,070</b>	<b>\$351,110</b>	
26.1 – Answer Contractor Questions (RFIs)	\$51,068	\$147,620	Scope was expanded from review of 75 RFIs to 200 RFIs plus inflation.
26.2 – Project Management	\$24,760	\$72,720	Scope was modified to more accurately reflect the expected level of effort for the GF Project Manager (average of 12 hours/month), and also extended the time from 2 years to 3 years for the PM’s involvement.
26.3 – Review Contingency and Allowance Allocations (formerly “change orders”)	\$32,200	\$46,440	Effort to review contingencies (“change orders”) was kept about the same plus inflation, but new scope also added making necessary design plan changes or “sketches” for clarification purposes due to field changes.
26.4 – Startup Support, Substantial and Final Completion Inspections, and Factory Test Witnessing	\$84,980	\$160,860	Scope expanded dramatically to include assistance from design engineers during system startup and for multiple Substantial Completion inspections.
26.5 – Provide As-Needed Civil Engineering Assistance	\$0	\$126,800	This task was added to the scope of work and assumes 16 hours/week over 1.5 years for Mike Robinson.

<b>Subtotal - Construction</b>	<b>\$193,008</b>	<b>\$554,440</b>	
<b>Task Description</b>	<b>2002 Proposal Costs</b>	<b>Current Estimate</b>	<b>Notes</b>
27.1 – Prepare Draft O&M Manuals	\$126,820	\$158,910	Scope was modified to include preparation of the ERP plus 8% inflation over two years.
27.2 – Operator Training on System Process and Plant-Wide	\$85,750	\$103,030	Scope added video tapping of operator training by professional MBE firm; also added cost for inflation.
27.3 – Prepare Record Drawings	\$118,900	\$128,020	Scope unchanged; added cost for inflation.
27.4 – Prepare Final O&M Manuals	\$33,070	\$36,180	Scope unchanged; added cost for inflation.
<b>Subtotal – Post-Construction</b>	<b>\$364,540</b>	<b>\$426,140</b>	

## Proposed DBE Participation

Gannett Fleming, Inc. (GF) has made a good faith effort to utilize DBE firms during the work of this contract amendment. The amendment will cover construction phase services as a continuation of our design work on the Highland Avenue Water Treatment Plant expansion and improvements project. Since this work is an amendment to an existing engineering contract for professional services, much of the work must be performed by our firm during the construction phase since we are the design engineer of record on this project. However, we have identified various portions of the work that could be performed by others in order to encourage and obtain DBE participation. On August 3, 2006, Mr. Tom Clark, Project Manager for GF met with Ms. Yvonne Gentry, DBE Coordinator for Augusta, to discuss the project and identify DBE goals and areas of work that may be amenable to DBE firms.

GF solicited proposals and bids from various DBE firms, evaluated their responses, and have included many of these firms in the project as qualified firms that can provide a value-added service to Augusta. Attached are the good faith efforts checklist and additional backup information that documents our efforts. The table below presents our proposed DBE participation for this contract amendment.

DBE Firm	Type	Principal Official	Address	Type of Work	Dollar Value of Work
Municipal Design Group, LLC <sup>(1)</sup>	MBE, African-American	Tom Wiedmeier	360 Bay Street, Suite 435, Augusta, GA	Prepare Emergency Response Plan	\$19,870
Khafra Engineering	MBE, African-American	Valentino Bates	230 Peachtree Street, Suite 200 Atlanta, GA	Contract Drafting for Civil Record Drawings	\$16,000
Mustard Seed Video Productions	MBE, African-American	Robert Lowry	3140 Augusta Tech Dr, Augusta, GA	Video-taping of operator training modules	\$8,250
Augusta Blueprint	MBE, African-American	Reggie Horne	512 Reynolds Street, Augusta, GA	Copying of Record Drawings and O&M Manuals	\$5,000

<sup>(1)</sup> Municipal Design Group is 51% owned by S.L. King & Associates, an MBE firm  
All DBE firms proposed for this project are local or have an office in Augusta.

Total Contract Amendment Amount	\$539,858
Total DBE Value	\$49,120
Total DBE Percent	9.1%

Signed:                     *R. Tom Clark*                     Date: 8/18/2006  
R. Tom Clark, P.E.  
Vice President, Gannett Fleming, Inc.



**AUGUSTA-RICHMOND COUNTY**  
**CHECKLIST FOR GOOD FAITH EFFORTS**

A bidder's good faith efforts must be those that could reasonably be expected from a bidder who was actively and aggressively seeking to meet the Disadvantaged Business Enterprise (DBE) goal. Good faith efforts may include, but are not limited to:

	Yes	No	
1.	<u>✓</u>	___	Soliciting, through all reasonable and available means, the interest for all certified DBEs who have the capability to perform the work of the contract. Such solicitations must be in sufficient time to allow DBEs to participate effectively.
2.	N/A		Confirming attendance at any pre-solicitation or pre-bid meetings.
3.	N/A		Providing proof of any advertisements in general circulation, trade association, and minority or woman focused media.
4.	<u>✓</u>	___	Documenting the follow-up to the initial solicitation with DBEs.
5.	<u>✓</u>	___	Documenting how portions of the work were selected to solicit DBE participation and how the selection was made in order to increase the likelihood of meeting the DBE goals. This would include, where appropriate, breaking down contracts into economically feasible units to facilitate DBE participation.
6.	N/A		Providing information on any negotiations with DBEs including bid item adjustments, terms and conditions of the contract, bonding and insurance requirements and etc.
7.	N/A		Documenting efforts to assist DBEs in obtaining bonding, lines of credit, or insurance.
8.	<u>✓</u>	___	Providing copies of the information supplied to DBEs to solicit their bids. Such information should include adequate information about the plans, specifications, and requirements of the contract to enable the DBE to supply a complete and competitive bid.
9.	<u>✓</u>	___	Providing information regarding the services/assistance secured from minority and women community organizations, contractors' groups, local minority and women business assistance offices and other organizations that provides assistance in the recruitment and placement DBEs.
10.	<u>✓</u>	___	Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers. The bidder must provide documentation that consideration was given when selecting portions of the work or material needs on the contract to the availability of DBE firms in those areas when soliciting for DBE participation.
11.	<u>✓</u>	___	Documenting the basis for rejecting DBE bids. In cases where the bidder determines the DBE to be unqualified, supporting evidence used to make the determination must be provided.

N/A = Not Applicable

## **Community Service Participation**

Gannett Fleming, Inc. has been involved in various local service activities as a way of giving back to the community since it opened an office in Augusta in 1998. Community service has long been ingrained as a way of business and part of our corporate culture since the founding of our firm in 1915. In fact, one of our company core values states that “We will promote service to our professions and the communities in which we live.”

We are a local firm that is invested in Augusta. The following are ways that our local Augusta office contributes to the community:

- Participates in “career day” at several Augusta high schools and magnet schools, where our engineers discuss their jobs and present opportunities for those interested in careers in science and engineering. This has been done for several years in conjunction with Parsons Engineering, ZEL Engineers, and Augusta Utilities Department during Engineer’s Week.
- Supports Augusta Engineering Department’s Public Works Week by helping to build wheelchair ramps in Commission Districts 1 and 2 for home bound people with disabilities. We also helped pick up trash in Commission District 1 to support the Solid Waste Department’s effort for Public Works Week. During this week we also provided information to the public and local school children about our firm and how we work to implement various projects for the City.
- Provide refreshments and educational talks for school children at Augusta Brownfields Commission meetings in Hyde Park.
- Provided sponsorship for members of the Augusta-Richmond County Neighborhood Association Alliance to attend a conference in 2003.
- Sponsored a Commission retreat luncheon for the Augusta Commission in 2003.
- Sponsored the Metro Augusta Chamber of Commerce industrial golf tournament for 5 years.
- Gave talks on water treatment chemicals to high school students at T.W. Josey High School in 2004.
- Participated in local Muscular Dystrophy Association (MDA) fund raising activities in 2005.

DBE Good Faith Efforts Documentation  
 Highland Avenue Water Treatment Plant Expansion & Upgrades  
 Professional Services During Construction Phase  
 Gannett Fleming, Inc.  
 August 2006

Firm	Type of DBE	Location	Type of Work Considered	Date of Contact	Contact Name & Phone	RFP Sent to Firm?	Response Received?
Mustard Seed Video Productions	MBE	Augusta	Video taping of operator training modules	8/4/06	Reggie Cofer; 706-724-0114	Yes; verbal	Yes; written quotation
Augusta Blueprint	MBE	Augusta	Copying of plan documents	8/4/06	Reggie Horne; 706-722-6488	Yes; verbal	Yes; written quotation
Moore & Associates	MBE	North Augusta, SC	Contract drafting for civil record drawings	8/4/06	Wayne Moore; 803-279-7799	Yes; verbal	Yes; verbal
S.L. King & Associates in conjunction with Municipal Design Group	MBE	Atlanta and Augusta	Preparation of ERP and Contract drafting	8/4/06	Oddie Richard; 404-524-5800 and Tom Wiedmeier; 706-828-8886	Yes; formal written RFP was issued	Yes; written proposal from Municipal Design Group
Khafra Engineers	MBE	Atlanta and Augusta	Preparation of ERP and Contract drafting	8/4/06	Valentino Bates; 404-525-2120	Yes; formal written RFP was issued	Yes; written proposal
J. Dunaway & Company	WBE	Augusta	Preparation of ERP and Contract drafting	8/15/06	Jana Dunaway; 706-828-6991	Yes; formal written RFP was issued	Yes; written proposal

Proposals were received from three firms for providing contract drafting assistance during preparation of Record Drawings and to prepare the Emergency Response Plan (ERP). We selected Khafra Engineers to provide contract drafting because of their local office in Augusta, cost, and qualifications for this type of work. We selected Municipal Design Group to prepare the ERP based on their experience with water treatment facilities and their familiarity with the Highland Avenue Water Treatment Plant. Additionally, our desire was to share the work with local MBEs. J. Dunaway & Company had the highest price for these services and were ranked third on experience.

**Augusta Utilities Department  
Highland Avenue Water Treatment Plant Expansion and Improvements  
August 18, 2006**

**Anticipated List of Project Submittals/Shop Drawings**

**Note:** This list was prepared by the Engineer for the purpose of scoping the shop drawing review task and may not be inclusive of all submittals.

Spec. Section & Pgh	Specification Title	Item	Responsibility to Review and Approve		
			AUD	CH2M HILL	GF
01045, 1.02 A	Cutting and Patching	Written Description of Cutting and Patching Work.		✓	
01400, 1.05 A, H	Quality Control	Construction Progress Schedule and Periodic Status Updates.		✓	
01550, 1.03 A	Construction Access	Site Organization Plan.		✓	
01570, 1.02 A 5	Traffic Regulation	Detour Plan.		✓	
01600, 1.04 A	Material Handling, Storage and Protection	Maintenance Program & Schedule for Stored & Installed Equipment.		✓	
01600, 1.05 A		Request for Off-Site Storage.		✓	
01656, 1.03 A, B	Disinfection of Water Mains	Wastewater Disposal Plan and Bacteriological Test Results.		✓	
01658, 1.04 A, B	Disinfection of Structures and Equipment	Wastewater Disposal Plan and Bacteriological Test Results.		✓	
01666, 1.04	Testing of Piping	Schedules and Procedures for Testing Piping.		✓	
01669, 1.05 A 5	Testing Process Systems	Outline of Proposed Testing Procedure.			✓
02151, 1.03 A	Support of Excavations	Design Calculations and Drawings.			✓
02210, 1.04 A	Site Grading	Site and Borrow Backfill Material Test Reports.		✓	
02220, 1.04 A B	Structural Excavation, Backfill, and Compaction	Site and Borrow Backfill Material Test Reports. Aggregate Samples and Lab Tests.		✓	
02220, 1.05		Laboratory Test Reports or Certification from Suppliers.		✓	
02220, 1.05		Aggregate and Soil Test Samples		✓	
02220, 106, G		Borrow Material		✓	
02221, 1.04		Trenching, Backfilling and Compaction	Compaction Test Reports, Laboratory Test Reports or Certification from Suppliers		✓
02221, 3.01 K		Flowable Fill Sequence of Operations		✓	
02260, 1.03, A B	Finish Grading	Laboratory Test Reports. Soil Supplement Product Certification.		✓	
02270, 1.03 A	Slope Protection and Erosion Control	Manufacturer's Certificates.		✓	
02430, 1.03	Drainage Structures, Pipe and Fittings	Shop Drawings, Product Data, Design Calculations and Pipe Certifications.			✓
02444, 1.04 A B	Chain Link and Pickett Fence	Shop Drawings, Product Data and Mill Certificates		✓	
02480, 1.03	Landscaping and Seeding	Laboratory Test Reports, Soil Supplement Product Certification, Plant and Seed Certification.		✓	
02480, 3.02 D		Hydroseeding Method (Contractor Option)		✓	
02500, 1.04, A	Paving and Surfacing	Product Data.		✓	
02500, 1.04, B		Bituminous and Aggregate Producer Certificates, Pavement Design Mix Formula		✓	
02601, 1.03	Manholes	Shop Drawings, Descriptive Literature, Certifications, Design Calculations		✓	
02601, 1.04		Certificate of Compliance – Manhole, Frame and Cover		✓	
02604, 1.04	Chambers, Vaults and Tanks	Shop Drawings, Descriptive Literature, Certificates, Design Calculations			✓
02604, 3.03 B		Certified Test Results			✓
02713, 1.03	Water System	Shop Drawings, Product Data, and Certified Records and Affidavits			✓

**Augusta Utilities Department  
Highland Avenue Water Treatment Plant Expansion and Improvements  
August 18, 2006**

**Anticipated List of Project Submittals/Shop Drawings**

**Note:** This list was prepared by the Engineer for the purpose of scoping the shop drawing review task and may not be inclusive of all submittals.

Spec. Section & Pgh	Specification Title	Item	Responsibility to Review and Approve		
			AUD	CH2M HILL	GF
02713, 2.01 C 7 c		Detailed Sketch of Proposed Restraining System			✓
02713, 3.09 C D		Details of Temporary Restraint. Metal Harnessing Details of Proposed Installation.			✓
02713, 3.10 E		Installation of Tapping Sleeves and Valves Procedure and Installation Certificate			✓
02722, 1.04 A B	Piped Wastewater Sewer	Shop Drawings, Product Data, Certified Records and Shop Test Reports			✓
03100, 1.03 A B	Concrete Formwork	Product Data, Specifications, Certificates, and Samples	✓	✓	
03200, 1.03 A B	Concrete Reinforcement	Shop Drawings, Product Data, Test Reports			✓
03300, 1.04	Cast-in-Place Concrete	Product Data, Samples, Design Mix, Test Reports, Certificates, Delivery Tickets, Schedule of Methods, Testing Agency			✓
03300, 3.02 A 1		Construction Joint Sketches			✓
03300, 3.06 A 5		Proposed Material and Repair Methods			✓
03420, 1.04	Precast Prestressed Sections	Shop Drawings, Product Data, Test Reports, Certificate			✓
03600, 1.03	Grout	Product Data and Placement Instructions		✓	
03600, 1.04		Test Reports		✓	
03720, 1.03 A B	Repair of Existing Concrete	Product Data and Sketches of Repair Sites.		✓	
04100, 1.04	Mortar and Masonry Grout	Product Data, Mix Design, Color Samples, Reports, Manufacturer's Certificate	✓	✓	
04300, 1.04	Unit Masonry Systems	Product Data, Samples, Manufacturer's Certificate	✓	✓	
04735, 1.04	Architectural Cast Stone	Samples, Shop Drawings, Test Reports	✓		✓
05100, 1.03 A	Structural Metal Framing	Shop Drawings and Product Data, Working Drawings, Welding Reports and Data and Mill Test Reports			✓
05210, 1.03	Steel Joists	Manufacturer's Specifications and Installation Instructions, Detailed Drawings, Welder's Certificates			✓
05310, 1.04	Metal Roof Decking	Manufacturer's Specifications and Installation Instructions, Detailed Drawings, Welder's Certificates			✓
05500, 1.05	Metal Fabrications	Shop Drawings and Product Data			✓
05600, 1.03	Aluminum Fabrications	Shop Drawings			✓
06100, 1.05	Rough Carpentry	Product Data and Manufacturer's Certificate		✓	
06200, 1.03	Finish Carpentry	Shop Drawings, Samples, Product Data, Finish Information and Keying Schedule	✓	✓	
06610, 1.05	Glass Fiber Fabrications	Product Data and Shop Drawings		✓	
07110, 1.04	Dampproofing	Product Data, Applicator Qualifications, Manufacturer's Certificate and Maintenance Manual.		✓	
07110, 1.04 1.05		Product Data, Shop Drawings, Certificates, Manufacturer's Installation Instructions		✓	
07190, 1.04	Vapor Barriers & Retardants	Product Data, Manufacturer's Installation Instructions		✓	
07200, 1.05	Insulation	Product Data, Manufacturer's Installation Instructions		✓	
07270, 1.06	Firestopping	Product Data, Manufacturer's Installation Instructions and Manufacturer's Certificate		✓	
07400, 1.04	Manufactured Roofing Panels	Shop Drawings, Samples, Mill Production Reports, Product Data, Design and Test Reports	✓		✓

**Augusta Utilities Department  
Highland Avenue Water Treatment Plant Expansion and Improvements  
August 18, 2006**

**Anticipated List of Project Submittals/Shop Drawings**

**Note:** This list was prepared by the Engineer for the purpose of scoping the shop drawing review task and may not be inclusive of all submittals.

Spec. Section & Pgh	Specification Title	Item	Responsibility to Review and Approve		
			AUD	CH2M HILL	GF
07720, 1.03	Roof Accessories	Product Data, Shop Drawings, Samples, Manufacturer's Instructions and Manufacturer's Certificate	✓		✓
07900, 1.04 1.05	Joint Sealers	Product Data, Samples and Manufacturer's Installation Instructions	✓	✓	
08110, 1.03	Metal Doors	Shop Drawings and Schedules, Samples	✓	✓	
08112, 1.04 1.05	Steel Frames	Product Data, Shop Drawings, Certificates, Manufacturer's Installation Instructions		✓	
08200, 1.04	Wood Doors	Written Agreement, Product Data for Part 2 Products		✓	
08342, 1.04	Fiberglass Doors and Frames	Product Data, Shop Drawings, Samples, Manufacturer's Installation Instructions, Warranty Documents	✓	✓	
08351, 1.04	Accordion Folding Doors	Product Data, Shop Drawings, Samples, Certifications	✓	✓	
08360, 1.03	Overhead Rolling Service Doors	Product Data, Shop Drawings, Samples, Engineering Calculations	✓		✓
08400, 1.04	Storefront Systems	Shop Drawings, Coordination of Work, Design Data		✓	
08520, 1.06	Aluminum Windows	Shop Drawings, Samples, Test Reports, Warranties	✓	✓	
08710, 1.04 1.05	Door Hardware	Shop Drawings, Manufacturer's Installation Instructions		✓	
08800, 1.04	Glass and Glazing	Product Data for Part 2 Products, Samples	✓	✓	
09206, 1.05 1.06	Gypsum Plaster	Product Data, Manufacturer's Instructions		✓	
09300, 1.02	Tile	Shop Drawings, Product Data, Samples, Certifications	✓	✓	
09400, 1.03	Terrazzo	Samples, Maintenance Literature, Certification	✓	✓	
09511, 1.05 1.06	Suspended Acoustic Ceilings	Product Data, Samples and Manufacturer's Installation Instructions	✓	✓	
09520, 1.03	Acoustical Sound Control	Product Data		✓	
09650, 1.03	Resilient Flooring	Samples, Maintenance Data, Instructions	✓	✓	
09670, 1.04	Fluid-Applied Flooring	Product Data, Samples, Material Certificates, Maintenance Instructions	✓	✓	
09800, 1.03	Acoustical Wall Panels	Product Data, Samples, Certified Test Results, Certificates	✓	✓	
09900, 1.05	Painting	Product Data, Applicator Qualifications, Certificates and Manuals			✓
09961, 1.04	Elastomeric Coatings	Product Data, Applicator Qualifications, Certifications			✓
09967, 1.04	Chemical Resistant Coatings	Product Data, Applicator Data			✓
10110, 1.03	Markerboards and Tackboards	Product Data, Test Reports, Samples and Shop Drawings	✓	✓	
10155, 1.03	Toilet Partitions	Shop Drawings, Samples	✓	✓	
10190, 1.03	Curtain Cubicles	Manufacturer's Data and Samples	✓	✓	
10200, 1.01	Metal Louvers	Product Data, Shop Drawings		✓	
10350, 1.02	Flagpole	Shop Drawings, Samples, Engineering Calculations	✓	✓	
10400, 1.02	Metal Plaque	Shop Drawings, Samples, Manufacturer's Literature, Allowance Cost Breakdown	✓	✓	
10411, 1.02	Display Case	Shop Drawings, Samples, Manufacturer's Literature,	✓	✓	
10420, 1.02	Clearwell Wall Plaque	Product Data, Sample and Manufacturer's Instructions and Warranty	✓	✓	
10440, 1.03	Signs	Shop Drawings, Samples and Manufacturer's Installation Instructions	✓	✓	
10500, 1.04	Lockers	Product Data, Samples and Combination Listing	✓	✓	

**Augusta Utilities Department  
Highland Avenue Water Treatment Plant Expansion and Improvements  
August 18, 2006**

**Anticipated List of Project Submittals/Shop Drawings**

**Note:** This list was prepared by the Engineer for the purpose of scoping the shop drawing review task and may not be inclusive of all submittals.

Spec. Section & Pgh	Specification Title	Item	Responsibility to Review and Approve		
			AUD	CH2M HILL	GF
10800, 1.05	Toilet and Bath Accessories	Product Data, Manufacturer's Installation Instructions		✓	
10900, 1.02	Firefighting Accessories	Product Data, Installation Details and Color Samples	✓	✓	
11005, 1.03	General Equipment Requirements	Shop Drawings, Installation Certificates, Operation and Maintenance Manuals, Certificates and Substitutions			✓
11202, 1.04	Sluice Gates	Shop Drawings			✓
11203, 1.04	Slide Gates	Shop Drawings			✓
11204, 1.04	Intake Screen Equipment	Shop Drawing, Quality Assurance/Control Submittals, Installation, Operation and Maintenance Manuals and Manufacturer's Installation Certificate			✓
11211, 1.04	In-Line Multistage Centrifugal Pump	Shop Drawings			✓
11212, 1.03	Horizontal Mounted End Suction Centrifugal Pumps	Shop Drawings			✓
11214, 1.04	Vertical Turbine Pumps	Bid Statements, Frequency Interaction Analysis, Shop Drawings			✓
11216, 1.03	Chemical Transfer Pumps	Shop Drawings, Manufacturer's Literature, Parts List, Installation, Operation and Maintenance Instructions			✓
11218, 1.04	Sample Pumps	Shop Drawings, Performance Curves, and Dimensional Data			✓
11220, 1.03	Flocculation Equipment	Shop Drawings, Product Data, Design Calculations, Certificates, Additional Information			✓
11223, 1.03	Fiberglass Weir Plates, Stop Plates and Guides	Shop Drawings, Installation, Operation and Maintenance Instructions			✓
11226, 1.03	Static Mixer Equipment	Shop Drawings, Mixer Design Computations and Hydraulic Design			✓
11231, 1.04	Volumetric Chemical Feed Equipment	Shop Drawings, Installation, Operation and Maintenance Instructions			✓
11240, 1.03	Liquid Polymer Feed Equipment	Shop Drawings, Certificates, Installation, Operation and Maintenance Instructions			✓
11242, 1.04	Chemical Feed Pumps	Shop Drawings and Certificates			✓
11244, 1.04	On Site Sodium Hypochlorite Generation Equipment	Shop Drawings, Power Requirements Instrumentation Control Logic and Power Diagrams, Operation and Maintenance Manuals, Installation Certificate			✓
11245, 1.04	Chemical Tanks	Shop Drawings, Certificates and Samples	✓		✓
11248, 1.04	Potassium Permanganate Storage and Feed System	Shop Drawings, Installation, Operation and Maintenance Instructions			✓
11304, 1.03	Packaged Pump Station Submersible Pumps	Shop Drawings, Certificates			✓
11312, 1.04	Process Compressed Air System	Manufacturer's Literature, Motor Data, Control Panel Details and Certificates			✓
11374, 1.04	Rotary Blowers - New Filters	Shop Drawings, Parts List and Test Data Curves			✓
11374A, 1.04	Rotary Blowers - Existing Filter	Shop Drawings, Product Data, Parts List, Test Data Curves			✓

**Augusta Utilities Department  
Highland Avenue Water Treatment Plant Expansion and Improvements  
August 18, 2006**

**Anticipated List of Project Submittals/Shop Drawings**

**Note:** This list was prepared by the Engineer for the purpose of scoping the shop drawing review task and may not be inclusive of all submittals.

Spec. Section & Pgh	Specification Title	Item	Responsibility to Review and Approve		
			AUD	CH2M HILL	GF
11603, 1.03	Laboratory Equipment	Shop Drawings		✓	
12600, 1.04	Laboratory Furniture	Shop Drawings and Samples	✓	✓	
13410, 1.05	Process Monitoring and Control System (PMCS)	Shop Drawings, Product Data, Wiring Diagrams, Installation, Operation and Maintenance Manuals			✓
13420, 1.03	Instruments	Shop Drawings, Instrumentation Specification Forms			✓
13430, 1.03	Instrument Enclosures and Control Panels	Shop Drawings, Product Data, Engineering Data, Construction and Arrangement Drawings, Material List, Ladder and Loop Diagrams, O&M Manual			✓
13451, 1.03	Programmable Logic Controllers (PLC)	Shop Drawings, Product Data, Specifications, Engineering Data,			✓
13455, 1.04	Human Machine Interface (HMI)	Color Prints, HMI Database, Scripts, Diagrams, O&M Manuals			✓
13521, 1.03	Filter Underdrain System - New Filters	Shop Drawings, Product Data, Specifications, Engineering Data, Layout Drawings, Test Records, Structural Calculations, Installation Certificate, Installation Procedure, Manufacturer's Statements			✓
13521A, 1.03	Filter Underdrain System - Existing Filter	Shop Drawings, Installation Certificate, Installation Procedure, Manufacturer's Statements			✓
13522, 1.04	Media Systems - New Filters	Product Data, Samples, Certification, Materials Handling Plan			✓
13522A, 1.04	Media Systems - Existing Filter	Product Data, Samples, Certification, Materials Handling Plan			✓
13524, 1.04	Fiberglass Filter Washwater Troughs - New Filters	Shop Drawings, Test Results, NSF Certification			✓
13524A, 1.04	Fiberglass Filter Washwater Troughs - Existing Filter	Shop Drawings, Test Results, NSF Certification			✓
13700, 1.05	Security Access and Surveillance System	Shop Drawings, Factory Acceptance Test, Commissioning and Performance Verification Test Procedures, Training Outline, Test Reports, O&M Manuals			✓
13720, 1.05	CCTV Video System	Shop Drawings, As-Built Record Documentation			✓
13900, 1.05	Fire Suppression Systems	Product Data, Shop Drawings, Operation and Maintenance Manual			✓
14300, 1.04	Hoists and Cranes	Shop Drawings, Installation Certificates and Operation and Maintenance Manuals			✓
15010, 1.03	General Mechanical Requirements	Shop Drawings, Installation Certificates, Operation and Maintenance Manuals			✓
15050, 1.04	Basic Mechanical Materials and Methods	Product Data, Shop Drawings, Samples, Closeout Submittals, Operation and Maintenance Manuals	✓		✓
15060, 1.03	Supports, Anchors and Seals	Shop Drawings, Product Data			✓
15075, 1.04	Mechanical Identification	Product Data, Samples, List of Wording etc., Installation Instructions, Record Documents, Pipe and Valve Wording Schedule	✓		✓
15080, 1.03	Mechanical Insulation	Product Data			✓



**Augusta Utilities Department  
Highland Avenue Water Treatment Plant Expansion and Improvements  
August 18, 2006**

**Anticipated List of Project Submittals/Shop Drawings**

**Note:** This list was prepared by the Engineer for the purpose of scoping the shop drawing review task and may not be inclusive of all submittals.

Spec. Section & Pgh	Specification Title	Item	Responsibility to Review and Approve		
			AUD	CH2M HILL	GF
15100, 1.04	Process Piping, Valves and Related Products	Shop Drawings, Certified Test Reports, Manufacturer's Affidavit, Packing list of Shipping, Storage & Handling Requirements and Operation and Maintenance Manuals			✓
15130, 1.02	Pumps and Specialties	Shop Drawings, Product Data, Record Drawings, Operation and Maintenance Data			✓
15140, 1.03 1.04	Domestic Water Piping	Product Data and Shop Drawings, Installation Instructions, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data, Warranty Information	✓		✓
15150, 1.04 1.05	Sanitary Waste and Vent Piping	Shop Drawings, Product Data, Installation Instructions, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15160, 1.03 1.04	Storm Drainage Piping	Product Data, Shop Drawings, Installation Instructions, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15180, 1.04 1.05	Heating Piping	Product Data, Shop Drawings, Design Data, Test Reports, Manufacturer's Certificate, Installation Instructions, Welder's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15184, 1.04 1.05	Refrigerant Piping	Product Data, Shop Drawings, Test Reports, Installation Instructions, Welder's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15195, 1.05 1.06	Gas Piping	Product Data, Test Reports, Manufacturer's Certificate, Welder's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15213, 1.02	Laboratory Air and Vacuum Piping	Product Data, Coordination Drawings, Piping Certification, Maintenance Data			✓
15214, 1.03 1.04	Compressed Air Systems	Shop Drawings, Product Data, Installation Instructions, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15410, 1.03 1.04	Plumbing Fixtures	Product Data, Shop Drawings, Installation Instructions, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data		✓	
15450, 1.03	Plumbing Equipment	Product Data and Operations and Maintenance Data		✓	
15512, 1.03 1.04	Cast-Iron Boilers	Product Data, Factory Test Report, Installation Instructions, Manufacturer's Certificate, Manufacturer's Field Reports, Operation and Maintenance Data			✓
15540, 1.03 1.04	Fuel-Fired Heaters	Shop Drawings, Product Data, Installation Instructions, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15550, 1.04	Breeching, Chimneys and Stacks	Shop Drawings, Product Data, Installation Instructions, Manufacturer's Certificate			✓
15720, 1.03 1.04	Air Handling Units	Shop Drawings, Product Data, Installation Instructions, Manufacturer's Certificate, Operation and Maintenance Data			✓
15736, 1.03 1.04	Packaged Rooftop Air Conditioning Equipment - Small Capacity	Product Data, Installation Instructions, Manufacturer's Certificate, Field Reports, Project Record Documents, Operation and Maintenance Data			✓
15737, 1.03 1.04	Packaged Rooftop Air Conditioning Equipment - Medium Capacity	Product Data, Installation Instructions, Manufacturer's Certificate, Field Reports, Project Record Documents, Operation and Maintenance Data			✓

**Augusta Utilities Department  
Highland Avenue Water Treatment Plant Expansion and Improvements  
August 18, 2006**

**Anticipated List of Project Submittals/Shop Drawings**

**Note:** This list was prepared by the Engineer for the purpose of scoping the shop drawing review task and may not be inclusive of all submittals.

Spec. Section & Pgh	Specification Title	Item	Responsibility to Review and Approve		
			AUD	CH2M HILL	GF
15739, 1.03 1.04	Spilt System Air Conditioning Units	Product Data, Installation Instructions, Manufacturer's Certificate, Field Reports, Project Record Documents, Operation and Maintenance Data			✓
15750, 1.03 1.04	Humidity Control Equipment	Product Data, Installation Instructions, Manufacturer's Certificate, Field Reports, Operation and Maintenance Data			✓
15760, 1.03 1.04	Terminal Heating and Cooling Units	Shop Drawings, Product Data, Installation Instructions, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15810, 1.04 1.05	Ducts	Shop Drawings, Product Data, Test Reports, Project Record Documents			✓
15820, 1.03 1.04	Duct Accessories	Shop Drawings, Product Data, Installation Instructions, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15830, 1.03 1.04	Fans	Shop Drawings, Product Data, Installation Instructions, Manufacturer's Certificate, Operation and Maintenance Data			✓
15840, 1.03 1.04	Air Terminal Units	Product Data, Installation Instructions, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15850, 1.03 1.04	Air Outlets and Inlets	Product Data, Test Reports, Manufacturer's Certificate, Project Record Documents			✓
15860, 1.04 1.05	Air Cleaning Devices	Shop Drawings, Product Data, Installation Instructions, Manufacturer's Certificate, Operation and Maintenance Data			✓
15905, 1.03 1.04	HVAC Instrumentation	Shop Drawings, Product Data, Manufacturer's Certificate, Project Record Documents, Operation and Maintenance Data			✓
15910, 1.04	Direct Digital Controls	Product Requirements, Project Record Documents, Operation and Maintenance Manual			✓
15940, 1.02	Sequence of Operation	Shop Drawings, Project Record Documents			✓
15950, 1.03	Testing, Adjusting and Balancing	Test Reports, Field Reports, Project Record Documents, Operation and Maintenance Manual			✓
15992, 1.05	Mechanical Commissioning	Project Record Documents, Operation and Maintenance Manual			✓
16050, 1.03	Basic Materials and Methods - Electrical	Equipment Power Supply and Wiring Requirements, Test Reports			✓
16110, 1.04	Raceway Systems	Product Data			✓
16120, 1.03	600 V Wire and Cable	Product Data, Test Data			✓
16123, 1.02	Medium Voltage Wire and Cable	Product Data			✓
16126, 1.04	Fiber Optic Cable and Accessories	Product Data			✓
16130, 1.02	Boxes	Components, Current Ratings, Time-Current Characteristic Curves, Independent Testing Organization Qualifications, Test Reports, Shop Drawings, Equipment Lists, Maintenance Data, Certificates of Compliance.			✓
16320, 1.02	Medium Voltage Transformers	Shop Drawings, Product Data, Wiring Diagrams, Test Reports, Maintenance Data, Independent Testing Organization Qualifications			✓
16345, 1.02	Medium Voltage Switchgear	Shop Drawings, Product Data, Wiring Diagrams, Test Reports, Maintenance Data, Independent Testing Organization Qualifications, Report of Field Tests			✓
16371, 1.03	Wood Pole	Shop Drawings		✓	
16426, 1.02	Distribution Switchgear	Shop Drawings, Electrical Ratings, Wiring Diagrams, Features, Ratings, Characteristic Curves, Field Tests, Maintenance Data			✓
16450, 1.02	Grounding	Product Data, Independent Testing Organization Qualifications			✓

**Augusta Utilities Department  
Highland Avenue Water Treatment Plant Expansion and Improvements  
August 18, 2006**

**Anticipated List of Project Submittals/Shop Drawings**

**Note:** This list was prepared by the Engineer for the purpose of scoping the shop drawing review task and may not be inclusive of all submittals.

Spec. Section & Pgh	Specification Title	Item	Responsibility to Review and Approve		
			AUD	CH2M HILL	GF
16460, 1.02	Low Voltage Transformers	Product Data			✓
16465, 1.02	Busways	Shop Drawings, Maintenance Data			✓
16470, 1.02	Panelboards	Shop Drawings, Product Data, Report of Field Tests, Panel Schedules, Maintenance Data			✓
16480, 1.03	Motor Control Centers	Shop Drawings, Product Data, Wiring/Schematic Diagrams, Independent Testing Organization Qualifications, Report of Field Tests			✓
16481, 1.03	Motor Starters	Product Data, Installation Instructions, Wiring Diagrams			✓
16487, 1.02	Variable Frequency Drives	Shop Drawings, Product Data, Schematic Diagrams, Maintenance Data, Factory Test Reports			✓
16500, 1.02	Lighting	Sample Light Fixtures	✓		
16600, 1.02 1.03	Transient Voltage Surge Suppression Equipment	Electrical and Mechanical Drawings, Equipment Manual, Suppression Rating Documentation, Operation and Maintenance Manual			✓
16670, 1.05	Lightning Protection	LPI System Certification, UL Label Proof		✓	
16721, 1.05 1.06	Fire Alarm Systems	Product Data, Design Calculations, Shop Drawings, As-Built Drawings, Riser Diagram			✓
16744, 1.05	Data/Phone Cabling Systems	Project References, Product Data, Test Results, Certificates, Shop Drawings, Project Record Documents			✓
16760, 1.04	Paging Systems	Product Data, Manufacturer's Instructions, Design Calculations, Shop Drawings, As-Built Drawings			✓

Augusta Utilities Department  
Highland Avenue WTP Expansion and Improvements

Costs for Professional Services During Construction Phase  
Prepared by Gannett Fleming  
August 18, 2006

Cost Breakdown **INPUT ONLY**

Staff	Billing Rate (\$/hr)	Labor Category	Task 25 - Pre-Construction			Task 26 - Construction						Task 27 - Post Construction					Grand Totals
			25.1 Pre-Con	25.2 Submittals	Subtotal Task 25	26.1 RFIs	26.2 PM	26.3 Changes	26.4 Inspections	26.5 Civil	Subtotal Task 26	27.1 Draft O&M	27.2 Training	27.3 Record Dwgs	27.4 Final O&M	Subtotal Task 27	
<b>Civil and PM</b>																	
Robinson	\$100	Proj. Engr. 3	4	400	404	220		120	112	1248	1700	120	180	120	40	460	2,564
Clark	\$160	Sr. Engr. 5	4	40	44	40	432	16	16		504	40	8	8	24	80	628
Subtotal Civil Labor Effort			\$1,040	\$46,400	\$47,440	\$28,400	\$69,120	\$14,560	\$13,760	\$124,800	\$250,640	\$18,400	\$19,280	\$13,280	\$7,840	\$58,800	\$356,880
Expenses			\$50	\$1,000	\$1,050	\$1,000	\$3,600	\$2,000	\$1,500	\$2,000	\$10,100	\$300	\$500	\$500	\$300	\$1,600	\$12,750
Subtotal Civil Effort			\$1,090	\$47,400	\$48,490	\$29,400	\$72,720	\$16,560	\$15,260	\$126,800	\$260,740	\$18,700	\$19,780	\$13,780	\$8,140	\$60,400	\$369,630
<b>Process</b>																	
Raffensperger	\$180	Officer		8	8	8					8	8		8	8	24	40
Glessner	\$110	Proj. Engr. 4		400	400	210		40	84		334	400	240	50	80	770	1,504
Giorgis	\$80	Proj. Engr. 1		206	206						0	200			40	240	446
Allis	\$140	Sr. Engr. 3			0				144		144	60			16	76	220
Kappen	\$80	Proj. Engr. 1			0	40					40	100	60		40	200	240
Averso	\$120	Sr. Engr. 1		250	250						0				0	250	250
Lee	\$60	Cadd Tech		300	300						0			1,000	1,000	1,300	1,300
Subtotal Process Labor Effort			\$0	\$109,920	\$109,920	\$27,740	\$0	\$4,400	\$29,400	\$0	\$61,540	\$77,840	\$31,200	\$66,940	\$18,880	\$194,860	\$366,320
Expenses			\$1,000	\$1,000	\$1,000	\$500	\$100	\$100	\$13,000	\$0	\$13,600	\$4,000	\$6,000	\$500	\$600	\$11,100	\$25,700
Subtotal Process Effort			\$0	\$110,920	\$110,920	\$28,240	\$0	\$4,500	\$42,400	\$0	\$75,140	\$81,840	\$37,200	\$67,440	\$19,480	\$205,960	\$392,020
<b>I&amp;C (includes security)</b>																	
Bingaman	\$150	Sr. Engr. 4		60	60	24		16	36		76	40		8	8	56	192
Kho	\$120	Sr. Engr. 1		120	120	40		20	48		108	40	240	12	8	300	528
Williams	\$100	Proj. Engr. 3		310	310	80		20	352		452	100		30	16	146	908
Subtotal I&C Labor Effort			\$0	\$54,400	\$54,400	\$16,400	\$0	\$6,800	\$46,360	\$0	\$69,560	\$20,800	\$28,800	\$5,640	\$3,760	\$59,000	\$182,960
Expenses			\$300	\$300	\$300	\$200	\$100	\$24,200	\$0	\$24,500	\$500	\$6,000	\$200	\$100	\$6,800	\$31,600	\$31,600
Subtotal I&C Effort			\$0	\$54,700	\$54,700	\$16,600	\$0	\$6,900	\$70,560	\$0	\$94,060	\$21,300	\$34,800	\$5,840	\$3,860	\$65,800	\$214,560
<b>Geotechnical</b>																	
Frailey	\$140	Sr. Engr. 3		120	120	32					32					0	152
Subtotal Geotechnical Labor Effort			\$0	\$16,800	\$16,800	\$4,480	\$0	\$0	\$0	\$0	\$4,480	\$0	\$0	\$0	\$0	\$0	\$21,280
Expenses			\$200	\$200	\$200	\$100	\$0	\$0	\$0	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$300
Subtotal Geotechnical Effort			\$0	\$17,000	\$17,000	\$4,580	\$0	\$0	\$0	\$0	\$4,580	\$0	\$0	\$0	\$0	\$0	\$21,580
<b>Structural</b>																	
Cecka	\$120	Sr. Engr. 1		80	80	80		24	32		136			8	8	224	224
White	\$100	Proj. Engr. 3		340	340	200		40			240			24	24	604	604
Subtotal Structural Labor			\$0	\$43,600	\$43,600	\$29,600	\$0	\$6,880	\$3,840	\$0	\$40,320	\$0	\$0	\$3,360	\$0	\$3,360	\$87,280
Expenses			\$200	\$200	\$200	\$200	\$100	\$2,400	\$0	\$2,700	\$200	\$200	\$200	\$0	\$200	\$200	\$3,100
Subtotal Structural			\$0	\$43,800	\$43,800	\$29,800	\$0	\$6,980	\$6,240	\$0	\$43,020	\$0	\$0	\$3,560	\$0	\$3,560	\$90,380
<b>Mechanical</b>																	
Huffman	\$150	Sr. Engr. 4		40	40	32		16	4		52	20		8	8	36	128
Bransom	\$100	Proj. Engr. 3		240	240	120		40	40		200	80		40	24	144	584
Subtotal Mechanical Labor			\$0	\$30,000	\$30,000	\$16,800	\$0	\$6,400	\$4,600	\$0	\$27,800	\$11,000	\$0	\$5,200	\$3,600	\$19,800	\$77,600
Expenses			\$200	\$200	\$200	\$200	\$100	\$4,800	\$0	\$5,100	\$200	\$200	\$200	\$100	\$500	\$500	\$5,800
Subtotal Mechanical			\$0	\$30,200	\$30,200	\$17,000	\$0	\$6,500	\$9,400	\$0	\$32,900	\$11,200	\$0	\$5,400	\$3,700	\$20,300	\$83,400
<b>Subcontractors</b>																	
EDC Electrical Sub (Local)				\$26,000	\$26,000	\$12,000		\$2,000	\$10,000		\$24,000	\$5,000	\$3,000	\$8,000		\$16,000	\$66,000
HBOL Architectural Sub (Local)				\$20,000	\$20,000	\$10,000		\$3,000	\$7,000		\$20,000			\$5,000		\$5,000	\$45,000
Municipal Design Group, LLC (MBE)												\$19,870				\$19,870	\$19,870
Augusta Blueprint (MBE)												\$1,000		\$3,000	\$1,000	\$5,000	\$5,000
Mustard Seed Video (MBE)													\$8,250			\$8,250	\$8,250
Khafra Engineers (MBE)													\$16,000			\$16,000	\$16,000
Total Labor			\$1,040	\$301,120	\$302,160	\$123,420	\$69,120	\$39,040	\$97,960	\$124,800	\$454,340	\$128,040	\$79,280	\$94,420	\$34,080	\$335,820	\$1,092,320
Total Hours			8	2,914	2,922	1,126	432	352	868	1,248	4,026	1,208	728	1,316	312	3,564	10,512
Total Expenses			\$50	\$2,900	\$2,950	\$2,200	\$3,600	\$2,400	\$45,900	\$2,000	\$56,100	\$5,000	\$12,500	\$1,600	\$1,100	\$20,200	\$79,250
Total Subs			\$0	\$46,000	\$46,000	\$22,000	\$0	\$5,000	\$17,000	\$0	\$44,000	\$25,870	\$11,250	\$32,000	\$1,000	\$70,120	\$160,120
<b>Grand Totals</b>			\$1,090	\$350,020	\$351,110	\$147,620	\$72,720	\$46,440	\$160,860	\$126,800	\$554,440	\$158,910	\$103,030	\$128,020	\$36,180	\$426,140	\$1,331,690



TO: Geri Sams  
Director, Procurement Department

Max Hicks  
Director, Utilities Department

FROM: Yvonne Gentry, Coordinator  
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL  
Contract Amendment #2 to Gannett Fleming for Professional Services  
Contract for the Highland Avenue Improvements Project**

DATE: September 7, 2006

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of 9.1% for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is **\$539,858.00**.
- There is 9.1% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 90.9% value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



**Engineering Services Committee Meeting  
9/11/2006 1:30 PM**

**Contracts with Utility Service, Co., Inc. for maintenance of the Old Waynesboro Road Water Tank and the Brown Road /Pine Hill Water Tank.**

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**Department:** Utilities

**Caption:** Approve Contracts with Utility Service, Co., Inc. for maintenance of the Old Waynesboro Road Water Tank and the Brown Road /Pine Hill Water Tank.

**Background:** Currently the Augusta Utilities Department has in its water distribution system 14 elevated water storage tanks and 10 ground level water storage tanks. All of the elevated tanks and two of the ground level tanks are constructed of steel. To properly maintain these steel tanks the outside is inspected annually from bottom to top and any miscellaneous repairs are performed. On alternate years, the tanks are drained, washed out, inspected, and disinfected. The exterior portions of the steel tanks are planned to be re-painted on a 7 to 8 year cycle and the interiors of the tanks are planned to be repainted on a 9 to 10 year cycle. The condition of the tank will determine the exact cycle. The outside of the concrete tanks is inspected annually from bottom to top and any miscellaneous repairs are performed. On alternate years the tanks are drained, washed out, inspected, and disinfected. The concrete tanks are not painted as frequently as the steel tanks but are painted on an as-needed basis. In 1998 we took bids on painting the Bel Air, Berkman Road, and Georgetown Tanks and Utilities Service Company submitted the lowest bid and was awarded the contract. In 2000 we took bids on painting the Tobacco Road Tank and again Utilities Service Company submitted the lowest bid and was awarded the contract. That contract was in the amount of \$214,500.00. After they had been awarded that contract Utility Service, Co. approached us with a proposal to paint the Tobacco Road Tank, Farington Tank, and Highway 56 Tank and put them on a three year payment plan and a maintenance plan with a capital outlay in 200 in the amount of \$199,655.00. That plan was approved by the Commission

on April 19, 2000 and was the beginning of our maintenance contracts with Utilities Service Co., Inc. At that same meeting on April 19, 2000 the Commission also approved maintenance contracts for the Bel Air Tank, Berkman Road Tank, and Georgetown Tank. With this agenda item we are requesting that the Old Waynesboro Road Tank and the Brown Road/Pine Hill Tank be placed under a maintenance contract with Utility Service Co., Inc. Attached is a copy of the two proposed contracts.

**Analysis:** Award of this item will provide for a program of painting and regular maintenance to keep the water tanks in a clean, attractive condition at all times.

**Financial Impact:** \$78,704.00 per year for the first 3 years and \$48,153.00 for the next 3 years from Account No. 506043410-5223211. The cost thereafter will be adjusted in accordance with the contract provisions.

**Alternatives:** 1. Approve this item and provide for tank painting now as well as annual maintenance and tank painting in the future. 2. Handle each tank with a bid for painting now for Old Waynesboro Road Tank, maintenance contracts each year for washout and/or inspection, and then in 2017 do a bid for painting both tanks. This is not as cost effective as alternative 1. and does not provide for the same assurance of service.

**Recommendation:** Approve Contracts with Utility Service Co., Inc. in the total first three year amount of \$78,704.00 per year and next three years in the amount of \$48,153.00 per year and subsequent years in accordance with the contract terms for painting and maintenance of the Old Waynesboro Road Tank and the Brown Road/Pine Hill Tank.

**Funds are Available in the Following Accounts:** Account No. 506043410-5223211

**REVIEWED AND APPROVED BY:**

**Finance.  
Procurement.**

**Disadvantaged Business Enterprise.  
Administrator.  
Clerk of Commission**

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# **Utility Service co., inc.**

## **Water Tank Maintenance Contract**



**Owner: Augusta Utilities-Augusta, Georgia**

**Tank Size: 3,000,000 Gallon Composite Stem Tank**

**Location: Brown Road/Pine Hill Tank**

**Date Prepared: February 16, 2006**



535 Courtney Hodges Blvd.  
P.O. Box 1350  
Perry, Georgia 31069  
tel: 478-987-0303 800-223-3695  
fax: 478-987-2991  
www.utilitiyservice.com

## WATER TANK MAINTENANCE CONTRACT

This agreement entered into by and between Augusta Utilities-Augusta, Georgia hereinafter known as the Owner, and Utility Service Co., Inc. hereinafter known as the Company.

The Owner agrees to employ the Company to provide the professional service needed to maintain its 3,000,000 gallon water storage tank located at Brown Road/Pine Hill Tank.

This agreement outlines the Company's responsibility for the care and maintenance of the above described water storage tank. Care and maintenance shall include the following:

The Company will annually inspect and service the tank beginning in the year 2006. The tank and tower will be thoroughly inspected to ensure that the structure is in a sound, watertight condition.

Biennially, beginning with the first washout/inspection in 2008, the tank will be completely drained and cleaned to remove all mud, silt, and other accumulations that might be harmful to the tank or its contents. This cleaning will utilize high pressure equipment with chemical injection. After cleaning is completed, the interior will be thoroughly inspected and disinfected prior to returning to service.

The Company shall furnish specialized services including engineering and inspection services needed to maintain and repair the tank and tower during the term of this contract. These repairs include steel replacement, steel parts, expansion joints, water level indicators, sway rod adjustments, manhole covers/gaskets, and other component parts of the tank or tower.

The Company will clean and repaint the interior and/or exterior of the tank at such time as complete repainting is needed. The need for interior painting is to be determined by the thickness of the existing liner and its protective condition. The need for exterior painting is to be determined by the appearance and protective condition of the existing paint.

When painting is needed, all products and procedures will be equal to, or exceed the requirements of the Georgia Environmental Protection Division, the American Water Works Association, and the Steel Structures Painting Council as to surface preparation, coating materials, and disinfection.

When interior renovation is needed, procedures as outlined in A.W.W.A.-D102 specifications for cleaning and coating of potable water tanks will be followed. Only material approved for use in potable water tanks will be used on any interior surface area.

At the time the exterior requires painting, the Company agrees to utilize a coating system which best suits the site conditions, environment, and general location of the tank.

The Company will install an anti-climb device on the access ladder to prevent unauthorized persons from climbing the tower.

A lock will be installed on the roof hatch of the tank to prevent any unauthorized entry to the water tank. Keys to the tank will be retained by the Owner and the Company.

The Company will provide emergency service to handle any problems with the tank at no additional cost to the Owner. Reasonable travel time must be allowed for the repair unit to reach the tank site.

The Company will furnish relief valves, if needed, to install in the water system so the Owner can pump direct and maintain water pressure while the tank is being serviced.

The Company will furnish current certificates of insurance coverage to the Owner at the time any work is performed or upon renewal of any policy.

The Owner shall have the right to continue this contract for an indefinite period of time providing the annual fee is paid in accordance with the terms of payment. A base fee of **\$31,134.00 plus all applicable taxes** has been established for this tank. **This base fee begins in Year 2006.**

In year **2009** and each third year thereafter, the annual fee will be adjusted to reflect the current cost of service. The adjustments, either up or down, shall be limited to a maximum of 5% annually.

It is agreed that future mandated environmental, health, or safety requirements which cause significant changes in the cost of tank maintenance will be just cause for modification of this agreement. The Company is accepting this tank under program based upon existing structure and components. *Any modifications to the tank, including antenna installations, shall be approved by Utility Service Co. Inc. prior to implementation and may warrant an increase in the annual fee.* This contract does not include the cost for containment or disposal of any hazardous waste materials, nor resolution to operational problems due to cold weather, Acts of God, structural damage due to antenna installations or other attachments for which the tank was not originally designed, or other conditions which are beyond the Owners and Company control.

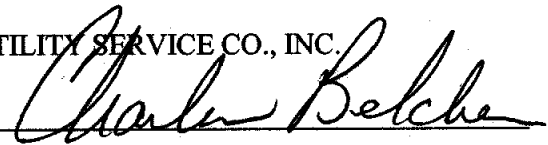
This contract is subject to cancellation by the Owner only if intent to cancel is received by the Company ninety (90) days prior to the anniversary date. Notice of Cancellation is to be delivered by registered mail and signed by three (3) authorized voting Officials of the Owner's management and/or Commissioners. Unless intent to cancel is received from the Owner, this contract shall automatically renew each year.

This Agreement signed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

OWNER:

UTILITY SERVICE CO., INC.

\_\_\_\_\_

  
\_\_\_\_\_

by \_\_\_\_\_  
title

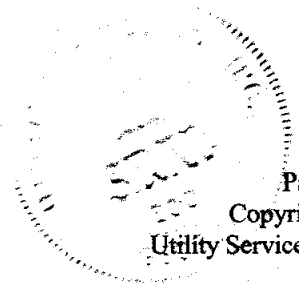
by **Charles Belcher, GA Representative**  
title

witness \_\_\_\_\_

witness   
\_\_\_\_\_

seal:

seal:



Addenda to Contract Number 3,000,000 Composite-Brown Rd/Pine Hill Tk, Dated 2-16-06

No. 1

**PAYMENT TERMS:** *All applicable taxes are the responsibility of the Owner and in addition to the stated costs and fees in this contract.* The first annual fee of \$31,134.00 shall be due and payable April 1, 2006. Each subsequent annual fee shall be due and payable April 1 of each year thereafter.

Owner \_\_\_\_\_  
by \_\_\_\_\_  
date \_\_\_\_\_  
witness \_\_\_\_\_

Utility Service Co., Inc.  
by Charles Belcher  
date 2-16-06  
witness Regina J. Aitken

The above signatories certify that they are duly authorized to sign this Contract and the Addenda on behalf of the entities represented.

The Company reserves the right to assign any outstanding receivables from this Contract to its Bank or other Lending Institutions as collateral for any Loans or Lines of Credit.

SEAL



# **Utility Service co., inc.**

## **Water Tank Maintenance Contract**



**Owner: Augusta Utilities-Augusta, Georgia**

**Tank Size: 500,000 Elevated**

**Location: Old Waynesboro Road Tank**

**Date Prepared: February 16, 2006**



535 Courtney Hodges Blvd.  
P.O. Box 1350  
Perry, Georgia 31069  
tel: 478-987-0303 800-223-3695  
fax: 478-987-2991  
www.utilitiyservice.com

## WATER TANK MAINTENANCE CONTRACT

This agreement entered into by and between Augusta Utilities-Augusta, Georgia hereinafter known as the Owner, and Utility Service Co., Inc. hereinafter known as the Company.

The Owner agrees to employ the Company to provide the professional service needed to maintain its 500,000 gallon water storage tank located at Old Waynesboro Road Tank.

This agreement outlines the Company's responsibility for the care and maintenance of the above described water storage tank. Care and maintenance shall include the following:

The Company will annually inspect and service the tank beginning in the year 2006. The tank and tower will be thoroughly inspected to ensure that the structure is in a sound, watertight condition.

Biennially, beginning with the first washout/inspection in 2008, the tank will be completely drained and cleaned to remove all mud, silt, and other accumulations that might be harmful to the tank or its contents. This cleaning will utilize high pressure equipment with chemical injection. After cleaning is completed, the interior will be thoroughly inspected and disinfected prior to returning to service.

The Company shall furnish specialized services including engineering and inspection services needed to maintain and repair the tank and tower during the term of this contract. These repairs include steel replacement, steel parts, expansion joints, water level indicators, sway rod adjustments, manhole covers/gaskets, and other component parts of the tank or tower.

The Company will clean and repaint the interior and/or exterior of the tank at such time as complete repainting is needed. The need for interior painting is to be determined by the thickness of the existing liner and its protective condition. The need for exterior painting is to be determined by the appearance and protective condition of the existing paint.

When painting is needed, all products and procedures will be equal to, or exceed the requirements of the Georgia Environmental Protection Division, the American Water Works Association, and the Steel Structures Painting Council as to surface preparation, coating materials, and disinfection.

When interior renovation is needed, procedures as outlined in A.W.W.A.-D102 specifications for cleaning and coating of potable water tanks will be followed. Only material approved for use in potable water tanks will be used on any interior surface area.

At the time the exterior requires painting, the Company agrees to utilize a coating system which best suits the site conditions, environment, and general location of the tank.

The Company will install an anti-climb device on the access ladder to prevent unauthorized persons from climbing the tower.

A lock will be installed on the roof hatch of the tank to prevent any unauthorized entry to the water tank. Keys to the tank will be retained by the Owner and the Company.

The Company will provide emergency service to handle any problems with the tank at no additional cost to the Owner. Reasonable travel time must be allowed for the repair unit to reach the tank site.

The Company will furnish relief valves, if needed, to install in the water system so the Owner can pump direct and maintain water pressure while the tank is being serviced.

The Company will furnish current certificates of insurance coverage to the Owner at the time any work is performed or upon renewal of any policy.

The Owner shall have the right to continue this contract for an indefinite period of time providing the annual fee is paid in accordance with the terms of payment. A base fee of **\$14,217.00 plus all applicable taxes** has been established for this tank. **See Addendum No. 1 which establishes the annual fee in Year 1 through Year 3 due to upfront renovations.**

In year **2012** and each third year thereafter, the annual fee will be adjusted to reflect the current cost of service. The adjustments, either up or down, shall be limited to a maximum of 5% annually.

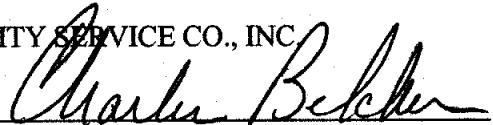
It is agreed that future mandated environmental, health, or safety requirements which cause significant changes in the cost of tank maintenance will be just cause for modification of this agreement. The Company is accepting this tank under program based upon existing structure and components. *Any modifications to the tank, including antenna installations, shall be approved by Utility Service Co. Inc. prior to implementation and may warrant an increase in the annual fee.* This contract does not include the cost for containment or disposal of any hazardous waste materials, nor resolution to operational problems due to cold weather, Acts of God, structural damage due to antenna installations or other attachments for which the tank was not originally designed, or other conditions which are beyond the Owners and Company control.

This contract is subject to cancellation by the Owner only if intent to cancel is received by the Company ninety (90) days prior to the anniversary date. Notice of Cancellation is to be delivered by registered mail and signed by three (3) authorized voting Officials of the Owner's management and/or Commissioners. Unless intent to cancel is received from the Owner, this contract shall automatically renew each year.

This Agreement signed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

OWNER:

UTILITY SERVICE CO., INC



\_\_\_\_\_

\_\_\_\_\_

by \_\_\_\_\_  
title

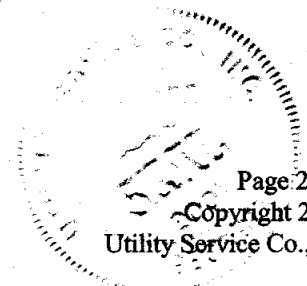
by **Charles Belcher, GA Representative**  
title

witness \_\_\_\_\_

witness Regina J. Arthur

seal:

seal:



Addenda to Contract Number 500,000 Elevated-Old Waynesboro Rd Tank, Dated 2-16-06

No. 1

Prior to the first year anniversary, the tank is to be renovated on the interior and exterior. The annual fee is set at \$47,570.00 in Year 1 through Year 3. Beginning in Year 4, the annual fee reverts to the established base fee of \$14,217.00.

No. 2

**PAYMENT TERMS:** *All applicable taxes are the responsibility of the Owner and in addition to the stated costs and fees in this contract.* The first annual fee shall be due and payable upon completion of the initial interior and/or exterior renovation. Beginning in Year 2 and each year thereafter, the annual fee shall be due April 1 of each year.

No. 3

Should the Owner elect to cancel the contract prior to the third year anniversary, any outstanding balance shall be due and payable within thirty (30) days of cancellation.

Owner

by \_\_\_\_\_

date \_\_\_\_\_

witness \_\_\_\_\_

Utility Service Co., Inc.

by Charles Belcher

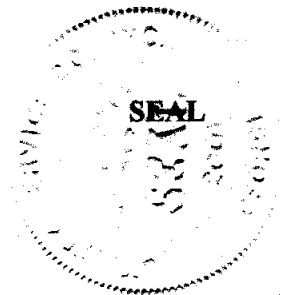
date 2-16-06

witness Regina J. Arthur

The above signatories certify that they are duly authorized to sign this Contract and the Addenda on behalf of the entities represented.

The Company reserves the right to assign any outstanding receivables from this Contract to its Bank or other Lending Institutions as collateral for any Loans or Lines of Credit.

SEAL







**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Diamond Lakes Way**

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**Department:** Clerk of Commission

**Caption:** Discuss Diamond Lakes Way. (Requested by Commissioner Williams)

**Background:**

**Analysis:**

**Financial Impact:**

**Alternatives:**

**Recommendation:**

**Funds are  
Available in the  
Following  
Accounts:**

**REVIEWED AND APPROVED BY:**

**Clerk of Commission**

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**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Easement - Capers, Frank and Byrd Estate**

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- Department:** County Attorney - Stephen E. Shepard, Attorney
- Caption:** Motion to approve an Option for Right-of-Way between Frank W. Capers, Jr. and Estate of Creed Byrd as owners, and Augusta, Georgia, as optionee, in connection with the St. Sebastian Way Project, for 0.301 acre (13,099.60 sq. ft.) in fee and 0.062 acre (2,717.31 sq. ft.) of permanent construction & maintenance easement for the following property located at 1424 Broad Street for a purchase price of \$367,262.00, minus \$45,000.00 for retention of the building located on property, for a total purchase price of \$322,262.00.
- Background:** The property owners have agreed to convey a certain right-of-way and easements to Augusta, Georgia, for the St. Sebastian project.
- Analysis:** The purchase of the referenced property is necessary for the improvements.
- Financial Impact:** The costs necessary for this purchase will be covered under the project budget. The County will advance the necessary funds for the purchase and the Georgia Department of Transportation will reimburse the funds advanced by Augusta, Georgia after acquisition of the property.
- Alternatives:** Deny the motion to approve the purchase of the referenced property.
- Recommendation:** Approve the motion to purchase the referenced property.
- Funds are Available in the Following** Will be reimbursed by Georgia DOT

**Accounts:**

**REVIEWED AND APPROVED BY:**

**Administrator.  
Clerk of Commission**

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**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Easement - Coleman, William R., Jr.**

---

**Department:** County Attorney - Stephen E. Shepard, Attorney

**Caption:** Motion to approve an Option for Right-of-Way and easement between William R. Coleman, Jr., as owner, and Augusta, Georgia, as optionee, in connection with the Washington Road Intersection Improvements Project for 0.087 acres (3,803.23 sq. ft) in fee, more or less, and 1,185.47 sq. ft. of permanent construction and maintenance easement, more or less, and 909.86 sq. ft. of temporary construction easement, more or less, for the following property located at 2902 Washington Road for a purchase price of \$115,000.00.

**Background:** The property owner has agreed to convey a certain right-of-way and easements to Augusta, Georgia, for the Washington Road Intersection Improvements Project for a total of \$115,000.00.

**Analysis:** The purchase of the referenced easement is necessary for the project.

**Financial Impact:** The purchase of the referenced easement for said project will not affect the budget.

**Alternatives:** Deny the motion to approve the purchase of the referenced easement for said project.

**Recommendation:** Approve the motion to purchase the referenced property.

**Funds are Available in the Following Accounts:** G/L 324041110-5411120 J/L 201824371-5411120

**REVIEWED AND APPROVED BY:**

**Administrator.  
Clerk of Commission**

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**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Easement - Dekle, Stephen**

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- Department:** County Attorney - Stephen E. Shepard, Attorney
- Caption:** Motion to approve an Option for Right-of-Way between Stephen I. Dekle, as owner, and Augusta, Georgia, as optionee, in connection with the St. Sebastian Way Project, for four project parcels located at 1499 Ellis St., and 218, 214 & 210 Fifteenth St. for a purchase price of \$335,000.00, less the sum of \$60,000.00 due to Owner to retaining his building, Said subject property consisting of 0.02 acre (799.87 sq. ft.) in fee and 0.025 acre (1,090.16 sq. ft) of permanent construction and maintenance easement.
- Background:** The property owner has agreed to convey the referenced right-of-way and easement for a total of \$275,000, subject to the following provisions: 1. Owner may retain title to building for the sum of \$60,000.00, which shall be deducted from the option price at the time of closing. 2. Within 90 days of receipt of purchase price, Owner shall remove the portion of the building shown to be in the new right-of-way and easement area and restore said building so that the restored outside wall will line up generally with the remaining portion of the structure along 15th Street. Optionee shall deduct \$50,000.00 from said purchase price and hold same as a cash performance bond conditioned upon the strict and faithful performance of this obligation. 3. Optionee shall waive any set-back requirements from the new right-of-way line so that after the restoration described above is complete, all buildings used by The Insurance Center shall be deemed in compliance with all laws, ordinances, regulations or building codes, including set back requirements. 4. After completion of the restoration described above, Owner shall be permitted to reconnect to Optionee's sanitary sewer in the existing location along 15th Street.
- Analysis:** The purchase of the referenced right-of-way and easement is

necessary for the improvements.

**Financial Impact:** The costs necessary for this purchase will be covered under the project budget. The County will advance the necessary funds for the purchase and the Georgia Department of Transportation will reimburse the funds advanced by Augusta, Georgia after acquisition of the property.

**Alternatives:** Deny the motion to approve the purchase of the referenced right-of-way and easement.

**Recommendation:** Approve the motion to purchase the referenced right-of-way and easement.

**Funds are Available in the Following Accounts:** Will be reimbursed by Georgia DOT

**REVIEWED AND APPROVED BY:**

**Administrator.  
Clerk of Commission**

---



**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Easement - Holbrook, Charles**

---

- Department:** County Attorney - Stephen E. Shepard, Attorney
- Caption:** Motion to approve an Option for Right-of-Way between Charles Holbrook, as owner, and Augusta, Georgia, as optionee, in connection with the St. Sebastian Way Project, being Project Parcel 15, (Tax Map 36-3, Parcels 16 & 16, consisting of 0.143 acre (6,219 sq. ft.) in fee and 0.043 (1,882.02 sq. ft.) of permanent construction & maintenance easement for property located at 1434 and 1438 Broad Street for a purchase price of \$141,757.00. Due to the property being taken, a small tract or remnant of property, remains and approval is sought to purchase this property for the agreed to amount of \$5,000. The total purchase price is \$146,757.00.
- Background:** The property owner has agreed to convey a certain right-of-way and easements to Augusta, Georgia, for the St. Sebastian project.
- Analysis:** The purchase of the referenced property is necessary for the improvements.
- Financial Impact:** The costs necessary for this purchase will be covered under the project budget. The County will advance the necessary funds for the purchase and the Georgia Department of Transportation will reimburse the funds advanced by Augusta, Georgia after acquisition of the property.
- Alternatives:** Deny the motion to approve the purchase of the referenced property.
- Recommendation:** Approve the motion to purchase the referenced property.
- Funds are**



**Available in the  
Following  
Accounts:**

Will be reimbursed by Georgia DOT

**REVIEWED AND APPROVED BY:**

**Administrator.  
Clerk of Commission**

---



**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Easement - University Health Services**

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- Department:** County Attorney - Stephen E. Shepard, Attorney
- Caption:** Motion to approve an Option for Right-of-Way between University Health Services, Inc., as owner, and Augusta, Georgia, as optionee, in connection with the St. Sebastian Way Project, for 0.05 acres (2155.76 sq. ft) in fee and 0.067 acres (2,909.54 sq. ft.) of permanent construction & maintenance easement and one temporary driveway easement for the following property located at 1402 Walton Way for a purchase price of \$51,400.00.
- Background:** The property owner has agreed to convey a certain right-of-way and easements to Augusta, Georgia, for the St. Sebastian project.
- Analysis:** The purchase of the referenced property is necessary for the improvements.
- Financial Impact:** The costs necessary for this purchase will be covered under the project budget. The County will advance the necessary funds for the purchase and the Georgia Department of Transportation will reimburse the funds advanced by Augusta, Georgia after acquisition of the property.
- Alternatives:** Deny the motion to approve the purchase of the referenced property.
- Recommendation:** Approve the motion to purchase the referenced property.
- Funds are Available in the Following Accounts:** Will be reimbursed by Georgia DOT

**REVIEWED AND APPROVED BY:**

**Administrator.  
Clerk of Commission**

---



**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Ethel Jones or J. Moore**

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**Department:** Clerk of Commission

**Caption:** Presentation by Ethel Jones/J. Moore regarding drainage concerns and other various issues.

**Background:**

**Analysis:**

**Financial Impact:**

**Alternatives:**

**Recommendation:**

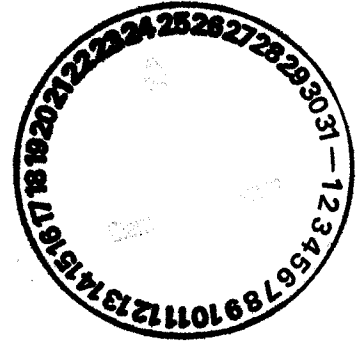
**Funds are  
Available in the  
Following  
Accounts:**

**REVIEWED AND APPROVED BY:**

**Clerk of Commission**

---

## AGENDA ITEM REQUEST FORM



Commission/Committee: (Please check one)

- Commission  
 Public Services Committee  
 Administrative Services Committee  
 Engineering Services Committee  
 Finance Committee  
 Public Safety Committee

### Contact Information for Individual/Presenter Making the Request:

Name: Ethel Jones or J. Moore  
Address: 3031 Hummingbird Lane - Augusta, GA 30906  
Telephone Number: 706-793-8605  
Fax Number: \_\_\_\_\_  
E-Mail Address: JonesEmaeja@aol.com

### Caption/Topic of Discussion to be placed on the Agenda:

1. ditch that runs behind homes on Eagle Drive needs cleaning more often. It is a haven for rats, snakes, + mosquitoes - Could a pipe be put there 2. Dumpster (full) has been on lot for over a year. Wood is still there from cut trees. 3. what is ruling on one man walking four adult pit bulls - man does not live in immediate neighborhood. 4. An abundance of large water bugs (roaches) that is probably a result of debris related to #2 5. Ruling on large dogs burial on property  
Please send this request form to the following address: 6. cutting of ragweeds 7. house on Shelby Court

Ms. Lena J. Bonner  
Clerk of Commission  
Room 806 Municipal Building  
530 Greene Street  
Augusta, GA 30911

Telephone Number: 706-821-1820  
Fax Number: 706-821-1838  
E-Mail Address: lbonner@augustaga.gov

Requests may be faxed, e-mailed or delivered in person and must be received in the Clerk's Office no later than 5:00 p.m. on the Wednesday preceding the Commission or Committee meeting of the following week. A five-minute time limit will be allowed for presentations.

Commission meetings are held on the first and third Tuesdays of each month at 2:00 p.m. Committee meetings are held on the second and last Mondays of each month from 12:30 to 3:30 p.m.



**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Georgia Power Encroachment Agreement 30894**

---

**Department:** Augusta Utilities Department, Max Hicks Director

**Caption:** Motion to approve and accept Georgia Power Company Governmental Encroachment Agreement for Easement No. 30894.

**Background:** AUD will be constructing the Rocky Creek Sanitary Sewer and needs to cross the Georgia Power Company right-of-way.

**Analysis:** Georgia Power has agreed to the encroachment and has submitted their agreement.

**Financial Impact:** None

**Alternatives:**

**Recommendation:** Approve and accept the Georgia Power Company Governmental Encroachment Agreement for Easement No. 30894.

**Funds are Available in the Following Accounts:** N/A

**REVIEWED AND APPROVED BY:**

**Finance.  
Procurement.  
Disadvantaged Business Enterprise.**

**Administrator.**  
**Clerk of Commission**

---

## GOVERNMENTAL ENCROACHMENT AGREEMENT FOR EASEMENT

L. F. # 6-2563

APPLICATION # 30894

### SUBJECT: GOSHEN-SOUTH AUGUSTA (BLACK) 230KV TRANSMISSION LINES RIGHT-OF-WAY

The Georgia Power Company, hereinafter called the "Power Company," hereby consents for AUGUSTA GEORGIA, A POLITICAL SUBDIVISION OF THE STATE OF GEORGIA, hereinafter called the "Undersigned," to use an area within the Power Company's subject electric transmission line right(s)-of-way described as follows:

Said right(s)-of-way being VARIES in width and extending in part through, 89TH District/GMD, of RICHMOND County, Georgia, on which the Power Company has constructed and now maintains and operates said electric transmission lines by virtue of certain easements heretofore acquired by the Power Company. The said right(s)-of-way is shown on plat attached hereto and made a part hereof as Exhibit A.

The use of the area by the Undersigned within said right(s)-of-way, pursuant to this consent, shall be limited to the construction, operation and maintenance of 42" D.I.P. SANITARY SEWER at the location and to the extent as shown on said attached plat. It is specifically understood that no buildings or other obstructions of any type will be permitted within or on subject transmission line right(s)-of-way.

The plans and specifications as submitted by the Undersigned meet the Power Company's approval provided the Undersigned conforms to the following terms and conditions:

1. The Undersigned agrees to obtain all necessary rights from the owners of the lands crossed by the Power Company's right(s)-of-way.
2. The Undersigned agrees to use said area within the Power Company's right(s)-of-way in such a manner as will not interfere with the Power Company's activities and facilities as now, or hereafter, exist thereon (hereinafter Power Company's "activities" and "facilities".)
3. The Undersigned agrees that the use of Power Company's right(s)-of-way as herein provided shall in no way affect the validity of the Power Company's easement(s) and shall in no way modify or restrict the use or rights of the Power Company, its successors or assigns, in and to the area to be used. The Undersigned acknowledges the Power Company's right and title to said easement(s) and the priority of the Power Company's right of use and hereby agrees not to resist or assail said priority.
4. The use of said area within said right(s)-of-way by the Undersigned shall be at the sole risk and expense of the Undersigned, and the Power Company is specifically relieved of any responsibility for damage to the facilities and property of the Undersigned resulting or occurring from the use of said right(s)-of-way by the Power Company as provided herein. The Undersigned covenants not to sue Power Company in that instance.
5. The Undersigned hereby agrees and covenants not to use and will prohibit agents, employees and contractors of Undersigned from using any tools, equipment or machinery within ten (10) feet of the Power Company's overhead conductors. The Undersigned agrees to comply with Official Code of Georgia, Section 46-3-30 et seq., (HIGH-VOLTAGE SAFETY ACT) and any and all Rules and Regulations of the State of Georgia promulgated in connection therewith, all as now enacted or as hereinafter amended; and further agrees to notify any contractor(s) that may be employed by the Undersigned to perform any of the work referred to in this Agreement of the existence of said code sections and regulations by requiring said work to be performed in compliance with said code sections and regulations by including same as a requirement in its request for bids and including said requirements in any contract let as a result of said bid. The Undersigned further agrees and covenants to warn all persons whom the Undersigned knows or should reasonably anticipate for any reason may resort to the vicinity of such conductors of the fact that such conductors are (a) electrical conductors, (b) energized, (c) uninsulated and (d) dangerous.
6. Notwithstanding anything to the contrary contained herein, the Undersigned agrees to reimburse the Power Company for all cost and expense for any damage to the Power Company's facilities resulting from the use by the Undersigned of said area within said right(s)-of-way. Also, the Undersigned agrees that if in the opinion of the Power Company, it becomes necessary, as a result of the exercise of the permission herein granted, to relocate, rearrange, change or raise any of the Power Company's facilities, to promptly reimburse the Power Company for all cost and expense involved in such relocation, rearrangement or raising of said facilities.
7. The Undersigned agrees to notify or have the Undersigned's contractor notify the Power Company's Representative in Augusta, Georgia, Phone: 706-667-5654, at least three (3) business days prior to actual construction on the Power Company's right(s)-of-way.
8. The Undersigned agrees, to the extent it may lawfully do so, to indemnify and save harmless and defend the Power Company from the payment of any sum or sums of money to any persons whomsoever (including third persons, subcontractors, the Undersigned, the Power Company and agents and employees of them) on account of claims or suits growing out of injuries to persons (including death) or damage to property



(including property of the Power Company) in any way attributable to or arising out of the use of the right(s)-of-way, by the Undersigned as herein provided, including (but without limiting the generality of the foregoing) all liens, garnishments, attachments, claims, suits, judgments, costs, attorney's fees, cost of investigation and of defense, and excepting only those situations where the personal injury or property damage claimed have been caused by reason of the sole negligence on the part of the Power Company, its agents or employees.

9. The Undersigned hereby agrees to incorporate in any and all of its contracts and/or agreements, for any work or construction done on or to said described right(s)-of-way, with any and all third persons, contractors, or subcontractors, a provision requiring said third parties, contractors or subcontractors to indemnify and defend Power Company, its agents and employees as provided for above from payment of any sum or sums of money by reason of claims or suits resulting from injuries (including death) to any person or damage to any property which is in any manner attributable to or resulting from the construction, use or maintenance of the Undersigned's facilities, projects or programs conducted on Power Company's right(s)-of-way herein described, and excepting only those situations where the personal injury or property damage claimed have been caused by reason of the sole negligence on the part of the Power Company, its agents or employees.

10. The Undersigned further agrees to carry, if performing work or construction, and to require that any such third party, contractor or subcontractor doing or providing any such work or construction on said right(s)-of-way carry liability insurance which shall specifically cover such contractually assumed liability. A certificate of such insurance issued by the appropriate insurance company shall be furnished to the Power Company upon request, said amount of insurance to be not less than \$2,000,000 per occurrence for bodily injury and property damage which arise out of or result from the Undersigned's operations under this agreement. The Power Company shall be named as an additional insured on this liability insurance coverage.

11. The Power Company has the right to remove all trees and brush from the limits of the right(s)-of-way. However, Power Company will permit some planting of shrubbery and *low growing trees* provided these plants do not interfere with the access to and operation of Power Company's facilities and are planted at a distance greater than twenty-five (25) feet from any structure or attachment thereto. A *planted low growing tree* is defined as a tree which grows no more than 15 feet in height at maturity.

12. The Undersigned agrees that all construction activity shall be conducted at a distance greater than twenty-five feet (25') from any structure or attachment thereto.

13. This Agreement shall inure to the benefit of and be binding upon the parties, their heirs, successors and/or assigns.

The Undersigned hereby accepts the foregoing consent, and has by Resolution of the Commissioners, or by other legal and proper authorization, duly adopted (a copy of which will be furnished to Power Company on request), authorized the execution and acceptance of this Agreement subject to the terms and conditions set forth above and in the event the Undersigned fails to perform as herein provided and shall not have executed and returned this Agreement on or before the 30 of SEPTEMBER 2006, this Agreement shall become void and no use of the Power Company's right(s)-of-way as herein provided for shall be made.

IN WITNESS WHEREOF, this Agreement has been duly executed, this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

**UNDERSIGNED**

WITNESS:

\_\_\_\_\_

NOTARY PUBLIC:

\_\_\_\_\_

BY:

\_\_\_\_\_

NAME:

\_\_\_\_\_

TITLE:

\_\_\_\_\_

The Power Company has by its duly authorized agent executed this Agreement, this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

**GEORGIA POWER COMPANY**

WITNESS:

\_\_\_\_\_

NOTARY PUBLIC:

\_\_\_\_\_

BY:

\_\_\_\_\_

NAME:

P. Chris Caldwell

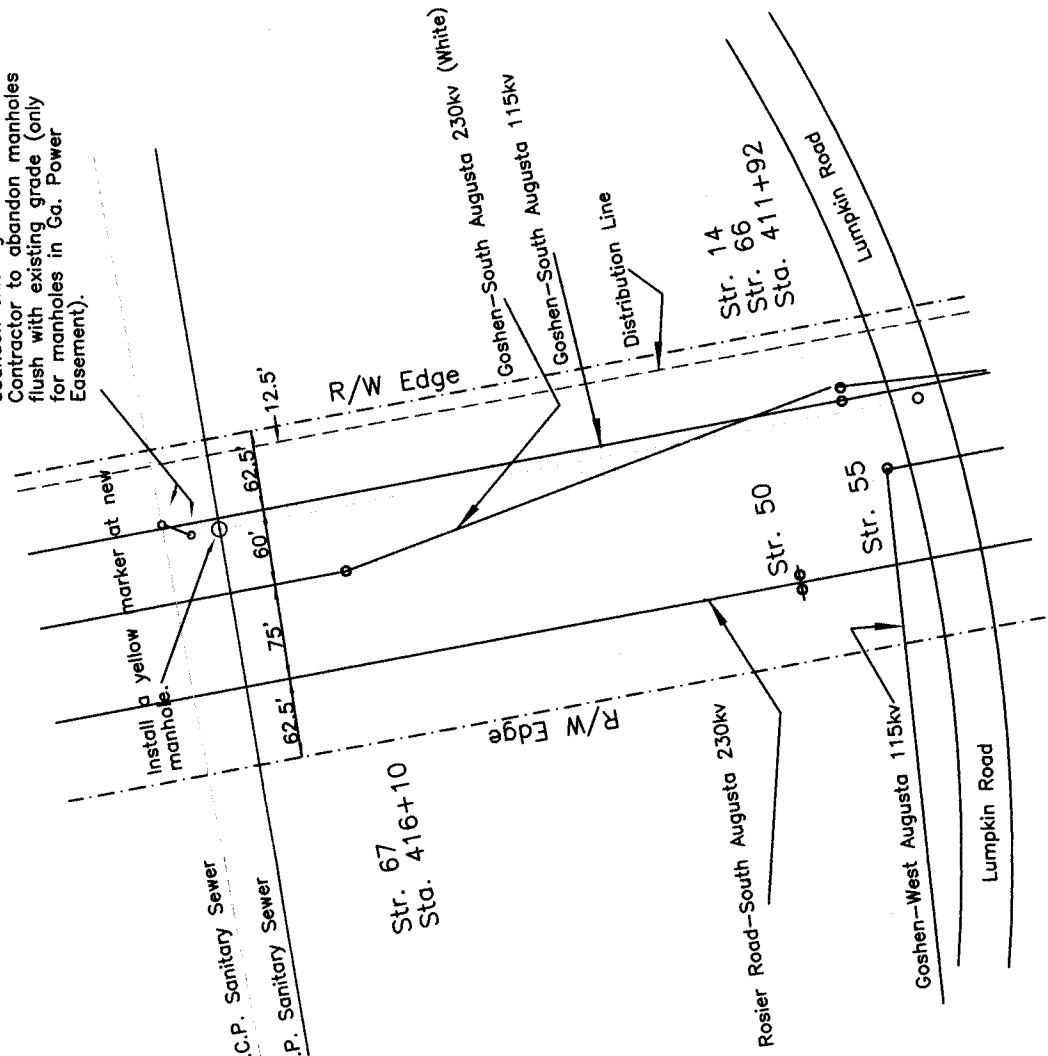
TITLE:

Area Transmission Maintenance Supervisor



Exhibit "A"

Existing Manholes  
Contractor to cap, fill and  
adandon existing manholes.  
Contractor to abandon manholes  
flush with existing grade (only  
for manholes in Ga. Power  
Easement).



Augusta Georgia, A Political Subdivision  
of the State of Georgia  
89th GMD of Richmond County  
Goshen-South Augusta (Black) 230kv  
AKA Rosier Road-South Augusta 230kv  
Map H-526, Sheet 7  
Goshen-West Augusta 115kv  
Goshen-South Augusta (White) 230kv  
Map N-275, Sheet 12  
South Augusta-Waynesboro-Wadley 115kv  
Map L-172, Sheet 16  
AKA Goshen-South Augusta 115kv

Proposed S.S. MH#8  
is to be constructed in the  
existing Ga. Power Easement  
in order to tie the existing  
15" dia. sewer main to the  
proposed 42" dia. sewer main.  
Contact Ga. Power prior to any  
work in the Ga. Power Easement

Undersigned Initials \_\_\_\_\_  
Power Company Initials \_\_\_\_\_

NOT TO  
SCALE

Augusta Utilities  
Department

**GEORGIA POWER COMPANY**  
East Region - Richmond Co.  
Encroachment #30894



**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Greater St. John Baptist Church**

---

**Department:**

**Caption:** Report from the Engineering Department regarding drainage issues of the Greater St. John Baptist Church on Ellis Street. (Referred from September 5 Commission meeting)

**Background:**

**Analysis:**

**Financial Impact:**

**Alternatives:**

**Recommendation:**

**Funds are  
Available in the  
Following  
Accounts:**

**REVIEWED AND APPROVED BY:**

**Clerk of Commission**

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**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Highland Ave Improvements Pre-purchase of Selected Equipment**

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**Department:** Utilities

**Caption:** Authorize award of bids for Pre-purchased of Equipment for the Highland Ave Improvements Project to the lowest responsive bidders. Bid Item # 06-098 Medium Voltage Transformers Bid Item # 06-099 Switchgear and Large MCC's Bid Item # 06-100 Sodium Hypochlorite Generation Bid Item # 06-101 Pumps Bid Item # 06-103 Motor Operated Valves Bid Item # 06-105A Manual Yard Valves Bid Item # 06-106 New Filter Equipment and Air blower Bid Item # 06-107 Existing Filter Equipment and Air blower

**Background:** In 2004, the Commission approved the concept of the Utilities Department and Procurement Department pre-purchasing selected equipment for the upcoming Highland Ave. Improvements Project. In accordance with the concept, the Utilities Department had the bid packages prepared and the Procurement Department handled the purchasing through the standard bidding process. Equipment specification bid packages were advertised and bids were accepted from all qualified manufactures. The intent of this pre-purchase method was to take advantage of the City's sales tax exempt status.

**Analysis:** The Purchasing Department recently received bids on various equipment packages. Listed below is the lowest responsive bidder for each of the bid packages. A bid tabulation sheet is attached to the agenda items which lists all the bidders. 06-098 Medium Voltage Transformers Consolidated Electrical Distributors \$ 274,200 06-099 Switchgear and Large MCC's Consolidated Electrical Distributors \$ 684,255 06-100 Sodium Hypochlorite Generator Carter & Verplank, Inc. \$ 1,237,000 06-101 Pumps Peerless Pump Co. \$ 858,952 06-103 Motor Operated Valves DeZurik Water Controls \$ 592,413 06-105A Manual Yard Valves Henry Pratt Co. \$ 235,463 06-106 New Filter Equip & Air blower F. B.

Leopold, Inc. \$ 840,083 06-107 Existing Filter Equip & Air blower F. B. Leopold, Inc. \$ 221,417

**Financial Impact:** Funds for the equipment purchase are allocated from the 2000 Bond Issue, under account number: 509043410-5425110/80120100-5425110 (\$1,639,747) and 2002 Bond Issue, under account number: 5425110/80120100-5425110 (\$3,304,036.)

**Alternatives:** No alternatives are recommended.

**Recommendation:** We recommend the Commission authorize award of bids for Pre-purchased of Equipment for the Highland Ave Improvements Project to the lowest responsive bidders.

**Funds are Available in the Following Accounts:** 2000 Bond Issue, under account number: 509043410-5425110/80120100-5425110 (\$1,639,747) and 2002 Bond Issue, under account number: 5425110/80120100-5425110 (\$3,304,036.)

**REVIEWED AND APPROVED BY:**

**Finance.  
Procurement.  
Disadvantaged Business Enterprise.  
Administrator.  
Clerk of Commission**

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## Invitation To Bid

Sealed bids will be received at this office until 3:00 p.m., Wednesday, February 15, 2006.

Bid Item #06-098	Transformers for Augusta Utilities Department
Bid Item #06-099	Switch Gear, Large MCC's and Bus Duct for Augusta Utilities Department
Bid Item #06-100	Sodium Hypochloride Generation System for Augusta Utilities Department
Bid Item #06-101	Vertical Turbine Pumps for Augusta Utilities Department
Bid Item #06-102	Flocculation Equipment for Augusta Utilities Department
Bid Item #06-103	Motor Operated Valves for Augusta Utilities Department
Bid Item #06-104	Field Instruments and Analyzers for Augusta Utilities Department
Bid Item #06-105	Yard/Plant Manual Butterfly Valves for Augusta Utilities Department
Bid Item #06-106	Filters (New) and Air Wash Blower (Base Bid) for Augusta Utilities Department
Bid Item #06-107	Filters (Existing and Air Wash Blowers) for Augusta Utilities Department

Bids will be received by Augusta, GA Commission hereinafter referred to as the OWNER at the offices of:

Geri A. Sams  
Procurement Department  
530 Greene Street - Room 605  
Augusta, Georgia 30911  
706-821-2422

Bid documents may be examined at the office of the Augusta, GA Procurement Department, 530 Greene Street – Room 605, Augusta, GA 30911. Plans and specifications for the project can be made available upon request to Augusta Blue Print. The fees for the plans and specifications which are non-refundable are as follows:

Bid Item #06-098	Transformers	\$60.00
Bid Item #06-099	Switch Gear, Large MCC's and Bus Duct	\$60.00
Bid Item #06-100	Sodium Hypochloride Generation System	\$20.00
Bid Item #06-101	Vertical Turbine Pumps	\$20.00
Bid Item #06-102	Flocculation Equipment	\$20.00
Bid Item #06-103	Motor Operated Valves	\$100.00
Bid Item #06-104	Field Instruments and Analyzers	\$20.00
Bid Item #06-105	Yard/Plant Manual Butterfly Valves	\$30.00
Bid Item #06-106	Filters (New) and Air Wash Blower (Base Bid)	\$50.00
Bid Item #06-107	Filters (Existing and Air Wash Blowers)	\$20.00

Documents may also be examined during regular business hours at the Augusta Builders Exchange, 1262 Merry Street, Augusta, GA 30904; F. W. Dodge Plan Room, 1281 Broad Street, Augusta, GA 30901. It is the wish of the Owner that all businesses are given the opportunity to submit on this project. To facilitate this policy, the Owner is providing the opportunity to view plans online ([www.augustablue.com](http://www.augustablue.com)) at no charge through Augusta Blueprint (706-722-6488) beginning Thursday, January 12, 2006. Bidders are cautioned that submitting a package without review or Procurement of a complete set are likely to overlook issues of construction phasing, delivery of goods or services, or coordination with other work that is material to the successful completion of the project. Bidders are cautioned that sequestration of documents through any other source is not advisable. Acquisition of documents from unauthorized sources places the bidder at the risk of receiving incomplete or inaccurate information upon which to base his qualifications.

**The last day to submit questions is Friday, February 3, 2006 by 4:00 p.m. No Bid will be accepted by fax, all must be received by mail or hand delivered.**

It is the wish of the Owner that minority businesses are given the opportunity to submit on the various parts of the work. This desire on the part of the Owner is not intended to restrict or limit competitive bidding or to increase the cost of the work. The Owner supports a healthy free market system that seeks to include responsible businesses and provide ample opportunity for business growth and development.

No Bid may be withdrawn for a period of **60** days after time has been called on the date of opening.

Bidders will please note that the number of copies requested; all supporting documents including financial statements and references and such other attachments that may be required by the bid are material conditions of the package. Any package found incomplete or submitted late shall be rejected by the Procurement Office. Any bidder allegedly contending that he/she has been improperly disqualified from bidding due to an incomplete bid submission shall have the right to appeal to the appropriate committee of the Augusta Commission. Please mark Bid number on the outside of the envelope.

Bidders are cautioned that sequestration of Bid documents through any source other than the office of the Procurement Department is not advisable. Acquisition of Bid documents from unauthorized sources places the bidder at the risk of receiving incomplete or inaccurate information upon which to base his qualifications.

Augusta has a Link Deposit program designed to provide loans to eligible local Small, Minority and Women Owned Businesses. For more information about this program contact the Office of the Disadvantage Business Enterprise @ 706-821-2406

GERI A. SAMS, Procurement Director

Publish:

Augusta Chronicle                      January 12, 19, 26, February 2, 2006  
Augusta Focus                            January 19, 2006

cc:            Tameka Allen                      Interim Deputy Administrator  
               Yvonne Gentry                    DBE Coordinator  
               Max Hicks                         Utilities Department  
               Wes Byne                            Utilities Department











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**Re-Bid Item #06-105A**  
**Yard/Plant Manual Butterfly Valves**  
**Augusta Utilities Department**  
**Re-Bid Due: Tuesday, August 29, 2006 @ 3:00 p.m.**

Vendor	Original	Six (6) Copies	Addendum 1	
<b>Eco-Tech, Inc.</b> <b>156 Hickory Springs Ind. Drive</b> <b>Canton, Ga 30115</b>	<b>NC</b>	<b>NC</b>	<b>NC</b>	
<b>Southern Valve &amp; Metals</b> <b>300 Bell Park Drive</b> <b>Woodstock,GA 30189</b>				
<b>Principle Environmental, Inc./</b> <b>Val-Matic Corp.</b> <b>1770 The Exchange, Suite 210</b> <b>Atlanta, GA 30339</b>				
<b>Henry Pratt Company</b> <b>401 South Highland Avenue</b> <b>Aurora, IL 60506</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	
<b>Sartell Water Controls</b> <b>250 Riverside Ave. N</b> <b>Sartell, MN 56377</b>				
*Non-compliant vendor for not submitting required copies, i.e. 6 copies				

**Re-Bid Item #06-105A**  
**Yard/Plant Manual Butterfly Valves**  
**Augusta Utilities Department**  
**Re-Bid Due: Tuesday, August 29, 2006 @ 3:00 p.m.**

Vendor	Original	Six (6) Copies	Addendum 1	
<b>Eco-Tech, Inc.</b> <b>156 Hickory Springs Ind. Drive</b> <b>Canton, Ga 30115</b>	<b>NC</b>	<b>NC</b>	<b>NC</b>	
<b>Southern Valve &amp; Metals</b> <b>300 Bell Park Drive</b> <b>Woodstock,GA 30189</b>				
<b>Principle Environmental, Inc./</b> <b>Val-Matic Corp.</b> <b>1770 The Exchange, Suite 210</b> <b>Atlanta, GA 30339</b>				
<b>Henry Pratt Company</b> <b>401 South Highland Avenue</b> <b>Aurora, IL 60506</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	
<b>Sartell Water Controls</b> <b>250 Riverside Ave. N</b> <b>Sartell, MN 56377</b>				
*Non-compliant vendor for not submitting required copies, i.e. 6 copies				

## Invitation To RE-Bid

Sealed re-bids will be received at this office until 3:00 p.m., Tuesday, August 29, 2006.

Re-Bid Item #06-105A                      Yard/Plant Manual Butterfly Valves for Augusta Utilities Department

Re-Bids will be received by Augusta, GA Commission hereinafter referred to as the OWNER at the offices of:

Gerri A. Sams  
Procurement Department  
530 Greene Street - Room 605  
Augusta, Georgia 30911  
706-821-2422

Re-Bid documents may be examined at the office of the Augusta, GA Procurement Department, 530 Greene Street – Room 605, Augusta, GA 30911. Plans and specifications for the project can be made available upon request to Augusta Blue Print. The fees for the plans and specifications which are non-refundable are as follows:

Re-Bid Item #06-105A                      Yard/Plant Manual Butterfly Valves                      \$30.00

Documents may also be examined during regular business hours at the Augusta Builders Exchange, 1262 Merry Street, Augusta, GA 30904; F. W. Dodge Plan Room, 1281 Broad Street, Augusta, GA 30901. It is the wish of the Owner that all businesses are given the opportunity to submit on this project. To facilitate this policy, the Owner is providing the opportunity to view plans online ([www.augustablue.com](http://www.augustablue.com)) at no charge through Augusta Blueprint (706-722-6488) beginning Thursday, July 6, 2006. Bidders are cautioned that submitting a package without review or Procurement of a complete set are likely to overlook issues of construction phasing, delivery of goods or services, or coordination with other work that is material to the successful completion of the project. Bidders are cautioned that sequestration of documents through any other source is not advisable. Acquisition of documents from unauthorized sources places the bidder at the risk of receiving incomplete or inaccurate information upon which to base his qualifications.

**The last day to submit questions is Tuesday, August 8, 2006 by 4:00 p.m. No Bid will be accepted by fax, all must be received by mail or hand delivered.**

It is the wish of the Owner that minority businesses are given the opportunity to submit on the various parts of the work. This desire on the part of the Owner is not intended to restrict or limit competitive bidding or to increase the cost of the work. The Owner supports a healthy free market system that seeks to include responsible businesses and provide ample opportunity for business growth and development.

No Bid may be withdrawn for a period of **90** days after time has been called on the date of opening. **One (1) original and six (6) copies of the bid is required to be submitted.**

Bidders will please note that the number of copies requested; all supporting documents including financial statements and references and such other attachments that may be required by the bid are material conditions of the package. Any package found incomplete or submitted late shall be rejected by the Procurement Office. Any bidder allegedly contending that he/she has been improperly disqualified from bidding due to an incomplete bid submission shall have the right to appeal to the appropriate committee of the Augusta Commission. Please mark Bid number on the outside of the envelope.

Bidders are cautioned that sequestration of Bid documents through any source other than the office of the Procurement Department is not advisable. Acquisition of Bid documents from unauthorized sources places the bidder at the risk of receiving incomplete or inaccurate information upon which to base his qualifications.

Augusta has a Link Deposit program designed to provide loans to eligible local Small, Minority and Women Owned Businesses. For more information about this program contact the Office of the Disadvantage Business Enterprise @ 706-821-2406

GERI A. SAMS, Procurement Director

Publish:

Augusta Chronicle                      July 6, 13, 20, 27, 2006  
Augusta Focus                              July 13, 2006

cc:            Tameka Allen                      Interim Deputy Administrator  
              Max Hicks                        Utilities Department  
              Wes Byne                         Utilities Department  
              Yvonne Gentry                    DBE Coordinator











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## Planholders List

**Member Name** City of Augusta, GA

**Bid Number** ITB-06-098-0-2006/PJM

**Bid Name** Transformers

17 Planholder(s) found.

Supplier Name ▲	City	State	Phone
Aubrey Silvey Enterprises, Inc.	Carrollton	GA	7708340738
Automation & Security	Hephzibah	GA	8775130085
Bledsoe Enterprises	Orlando	FL	4076791039
CE Power Solutions, LLC	cincinnati	OH	5135636150
D.W.G., Inc.	Jacksonville	FL	9046465876
Doubletree Systems	Sunnyvale	CA	4088501416
Electric Power Systems, International	Orlando	FL	4075786424
F.B. Leopold Co., Inc.	Zelienople	PA	7244526300
Fleming Electric	Redwood City	CA	6505922771
Hagemeyer North America, Inc.	Augusta	GA	7067367021

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## Planholders List

**Member Name** City of Augusta, GA

**Bid Number** ITB-06-098-0-2006/PJM

**Bid Name** Transformers

17 Planholder(s) found.

Supplier Name ▲	City	State	Phone
KJR Associates Inc	Oak Creek	WI	4147647986
Law Enforcement Supply Co Inc	Panama City	FL	8507699678
McGraw-Hill Construction Dodge	Fort Myers	FL	2399392525
RTS Transformer Inc.	Apopka	FL	4078802524
UTILICOR	Tampa	FL	8005997930
Weg Electric	Suwanee	GA	4043531939
World Electric Supply	West Palm Beach	FL	5618428228

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## Planholders List

**Member Name**    City of Augusta, GA  
**Bid Number**    ITB-06-099-0-2006/PJM  
**Bid Name**        Switch Gear, Large MCC's and Bus Duct

11 Planholder(s) found.

Supplier Name ▲	City	State	Phone
CE Power Solutions, LLC	cincinnati	OH	5135636150
Centerplate	Stamford	CT	2039755943
Hagemeyer North America, Inc.	Augusta	GA	7067367021
Hagemeyer North America, Inc.	Augusta	GA	7067367021
KJR Associates Inc	Oak Creek	WI	4147647986
ManufactuRx	Evans	GA	7068304789
MSE, Inc	Denver	CO	7202999900
Myers Power Products	Corona	CA	9092784844
NATIONAL ELECTRICAL SYSTEMS INC.	BOONVILLE	NY	3159425151
SMC Electrical Products	Glade Spring	VA	3042080781

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### Planholders List

**Member Name** City of Augusta, GA  
**Bid Number** ITB-06-099-0-2006/PJM  
**Bid Name** Switch Gear, Large MCC's and Bus Duct

11 Planholder(s) found.

Supplier Name ▲	City	State	Phone
World Electric Supply	West Palm Beach	FL	5618428228

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## Planholders List

**Member Name** City of Augusta, GA

**Bid Number** ITB-06-100-0-2006/PJM

**Bid Name** Sodium Hypochloride Generation System

3 Planholder(s) found.

Supplier Name ▲	City	State	Phone
Fulton Supply Company	Aiken	SC	8036480464
Legacy Ford Inc.	McDonough	GA	7709142800
McGraw-Hill Construction Dodge	Fort Myers	FL	2399392525

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## Planholders List

**Member Name** City of Augusta, GA

**Bid Number** ITB-06-101-0-2006/PJM

**Bid Name** Vertical Turbine Pumps

12 Planholder(s) found.

Supplier Name ▲	City	State	Phone
Alfred Conhagen, Inc. of Florida	Tampa	FL	8132488200
Carolina Pumpworks, LLC	Columbia	SC	8032332793
D & L Industrial Services, Inc.	AUGUSTA	GA	7067722929
Fulton Supply Company	Aiken	SC	8036480464
Hertz Equipment Rental	Park Ridge	NJ	2013075158
KJR Associates Inc	Oak Creek	WI	4147647986
McGraw-Hill Construction Dodge	Fort Myers	FL	2399392525
Myers-Seth Pump Inc.	JACKSONVILLE	FL	9043896114
Pat's Pump & Blower LLC	Orlando	FL	8003597867
Reynolds Inliner, LLC	Orleans	IN	8128653232

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## Planholders List

**Member Name** City of Augusta, GA  
**Bid Number** ITB-06-101-0-2006/PJM  
**Bid Name** Vertical Turbine Pumps

12 Planholder(s) found.

Supplier Name ▲	City	State	Phone
Rowe Drilling Company, Inc.	Tallahassee	FL	8505761271
USA Blue Book	Waukegan	IL	8005481234

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## Planholders List

**Member Name** City of Augusta, GA  
**Bid Number** ITB-06-103-1-2006/PJM  
**Bid Name** Motor Operated Valves

4 Planholder(s) found.

Supplier Name ▲	City	State	Phone
A & B PIPE SUPPLY INC	HIALEAH	FL	3056915000
Fulton Supply Company	Aiken	SC	8036480464
North American Energy Services	Issaquah	WA	4259614700
parnell-martin companies llc.	tampa	FL	8132485287

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## Planholders List

**Member Name** City of Augusta, GA

**Bid Number** ITB-06-105A-0-2006/PJM

**Bid Name** Yard/Plant Manual Butterfly Valves

7 Planholder(s) found.

Supplier Name ▲	City	State	Phone
Best Plumbing Specialties, Inc.	Myersville	MD	8004486710
Ferguson Enterprises-Waterworks Division	Augusta	GA	7068602233
Fulton Supply Company	Aiken	SC	8036480464
Grainger	Northbrook	IL	8778756929
J.S. Haren Company	Athens	TN	4237455000
parnell-martin companies llc.	tampa	FL	8132485287
S.O.S. (SANKOFA HOUSING)	DETROIT	MI	3135251300

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## Planholders List

**Member Name** City of Augusta, GA

**Bid Number** ITB-06-107-0-2006/PJM

**Bid Name** Filters (Existing and Air Wash Blowers)

9 Planholder(s) found.

Supplier Name ▲	City	State	Phone
Carbon Activated Corporation	Compton	CA	3108854555
F.B. Leopold Co., Inc.	Zelienople	PA	7244526300
Fulton Supply Company	Aiken	SC	8036480464
North American Air, Inc	Centre	AL	2569277990
Pat's Pump & Blower LLC	Orlando	FL	8003597867
Pure Air Filter	Greenwood	MS	6624530034
The Augusta Builders' Exchange	Augusta	GA	7067363553
Tri-Dim Filter Corporation	Louisa	VA	5409672600
Vehicle Maintenance Program, Inc.	Boca Raton	FL	5613626080

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TO: Geri Sams  
Director, Procurement Department

Max Hicks  
Director, Utilities Department

FROM: Yvonne Gentry, Coordinator  
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL  
Bid Item #06-098 - Medium Voltage Transformers  
(Consolidated Electrical Distributors)**

DATE: September 7, 2006

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of zero (0%) for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is **\$274,200**.
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 100% value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



TO: Geri Sams  
Director, Procurement Department

Max Hicks  
Director, Utilities Department

FROM: Yvonne Gentry, Coordinator  
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL  
Bid Item #06-099 - Switch Gear and Large MCC's  
(Consolidated Electrical Distributors)**

DATE: September 7, 2006

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of zero (0%) for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is **\$684,255**.
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 100% value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



TO: Geri Sams  
Director, Procurement Department

Max Hicks  
Director, Utilities Department

FROM: Yvonne Gentry, Coordinator  
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL  
Bid Item #06-100 - Sodium Hypochlorite Generator  
(Carter & Verplank, Inc.)**

DATE: September 7, 2006

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of zero (0%) for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is **\$1,237,000**.
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 0% value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw





TO: Geri Sams  
Director, Procurement Department

Max Hicks  
Director, Utilities Department

FROM: Yvonne Gentry, Coordinator  
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL  
Bid Item #06-101 - Pumps (Peerless Pump Company)**

DATE: September 7, 2006

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of zero (0%) for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is **\$858,952.00**.
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 0% value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



TO: Geri Sams  
Director, Procurement Department

Max Hicks  
Director, Utilities Department

FROM: Yvonne Gentry, Coordinator  
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL  
Bid Item #06-103 - Motor Operated Valves (DeZurik Water Controls)**

DATE: September 7, 2006

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of zero (0%) for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is **\$592,413.00**.
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 0% value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



TO: Geri Sams  
Director, Procurement Department

Max Hicks  
Director, Utilities Department

FROM: Yvonne Gentry, Coordinator  
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL  
Bid Item #06-105A - Manual Yard Valves (Henry Pratt Company)**

DATE: September 7, 2006

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of zero (0%) for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is **\$235,463.00**.
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 0% value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



TO: Geri Sams  
Director, Procurement Department

Max Hicks  
Director, Utilities Department

FROM: Yvonne Gentry, Coordinator  
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL  
Bid Item #06-106 - New Filter Equipment & Air Blower  
(F.B. Leopold, Inc.)**

DATE: September 7, 2006

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of zero (0%) for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is **\$840,083.00**.
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 0% value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



TO: Geri Sams  
Director, Procurement Department

Max Hicks  
Director, Utilities Department

FROM: Yvonne Gentry, Coordinator  
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL  
Bid Item #06-107 - Existing Filter Equipment & Air Blower  
(F.B. Leopold, Inc.)**

DATE: September 7, 2006

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of zero (0%) for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is **\$221,417.00**.
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 0% value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Trade, Exhibit and Event Center**

---

**Department:** Clerk of Commission

**Caption:** Accept Trade, Exhibit and Event Center Taskforce recommendation for site and operational agreement. (Referred from September 5 Commission meeting)

**Background:**

**Analysis:**

**Financial Impact:**

**Alternatives:**

**Recommendation:**

**Funds are  
Available in the  
Following  
Accounts:**

**REVIEWED AND APPROVED BY:**

**Clerk of Commission**

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# The TEE Center

## TRADE, EXHIBIT & EVENT

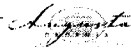


**Augusta Commission**  
**Engineering Services Committee**

### Task Force Recommendation

- Site
- Room Block Agreement
- Operational Agreement

August 28, 2006



SPLENDOR ADVISORY GROUP LLC

## Today's Discussion



- Project Background
  - How did We Get Here?
- Site Recommendation
  - Why the Reynolds Street Site Makes Best Economic Sense for the City
- Room Block Agreement Recommendation
  - Ability for City to Achieve it's Goals
- Operational Agreement Recommendation
  - How to Make it All Work
- Summary
- Next Steps

.....

## **PROJECT BACKGROUND**

.....

### **Project Background**

.....

- Feasibility Study History & Results
- SPLOST Vote #1
- Citizen's Oversight Committee Recommendation
- SPLOST Vote #2
- Augusta Commission Approvals
- Task Force Creation



## Stakeholder Task Force

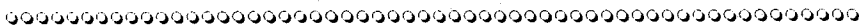


### ▪ **Five Members:**

- Augusta Commissioner: *Keith Brown*
- Augusta Commissioner: *Joe Bowles*
- Administrator's Office: *Fred Russell*
- Convention/Visitors Bureau: *Abram Serotta*
- Augusta Conference Center: *Paul Simon*

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## Stakeholder Task Force



### ▪ **Responsibilities:**

- Project oversight
- Make recommendations to full Commission for approval on major decisions such as land acquisition plan, site, operation and lease agreements, architect, general contractor, etc.

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## Stakeholder Task Force

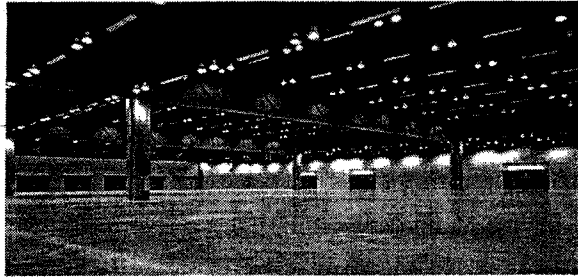


### Phase I Work-Plan:

- Update & Validate Feasibility Study
- Develop Preliminary Agreements
  1. Operations & Lease Agreement
  2. Room Block Agreement
  3. Land Acquisition Plan
- Produce Facility Program ("*Architect's Instructions*")
  1. Define Functional and Operational Needs
  2. Estimate Project Budget
- Architect Selection

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## Trade-Exhibit-Event Center?



### What is It?

- Flat load-bearing floor, column-free, flexible exhibit space with 30' ceilings
- No fixed seating; a "Big Box"

### Who Uses Them?

- Trade Shows; Conventions; Garden, Home, and Boat Shows; Very Large Banquets

### Why Do City's Build Them?

- Economic Impact (*Tax revenue generation, Jobs, Spin-off development*)

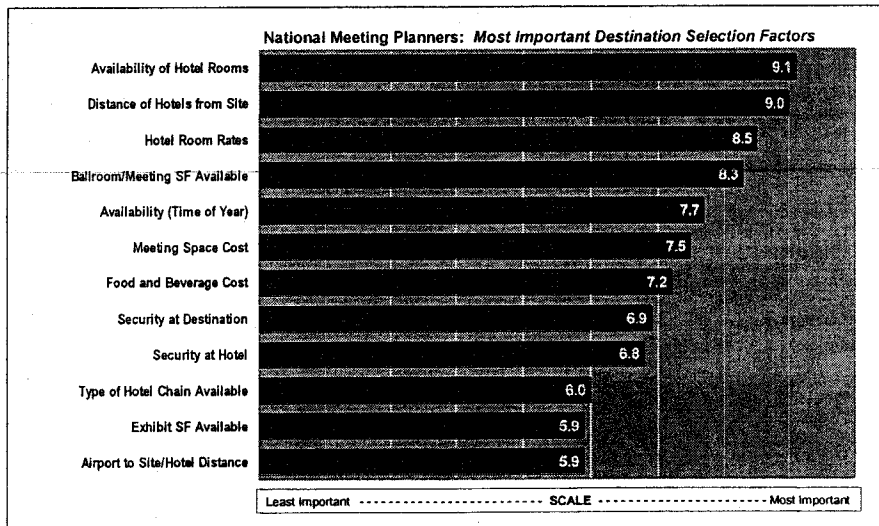
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## Summary: Competition

- Supply Side: Of the 13 In-State GA Comp's, Augusta Ranks:
  - 1<sup>st</sup> in Nearby Hotel Rooms
  - 4<sup>th</sup> in Meeting/Ballroom Space
  - Last in Exhibit Hall Space
- Competitors are Expanding Facilities & Attempting to Induce HQ Hotel Projects
- Augusta has Potential to Offer the Best “Package” among Competitors

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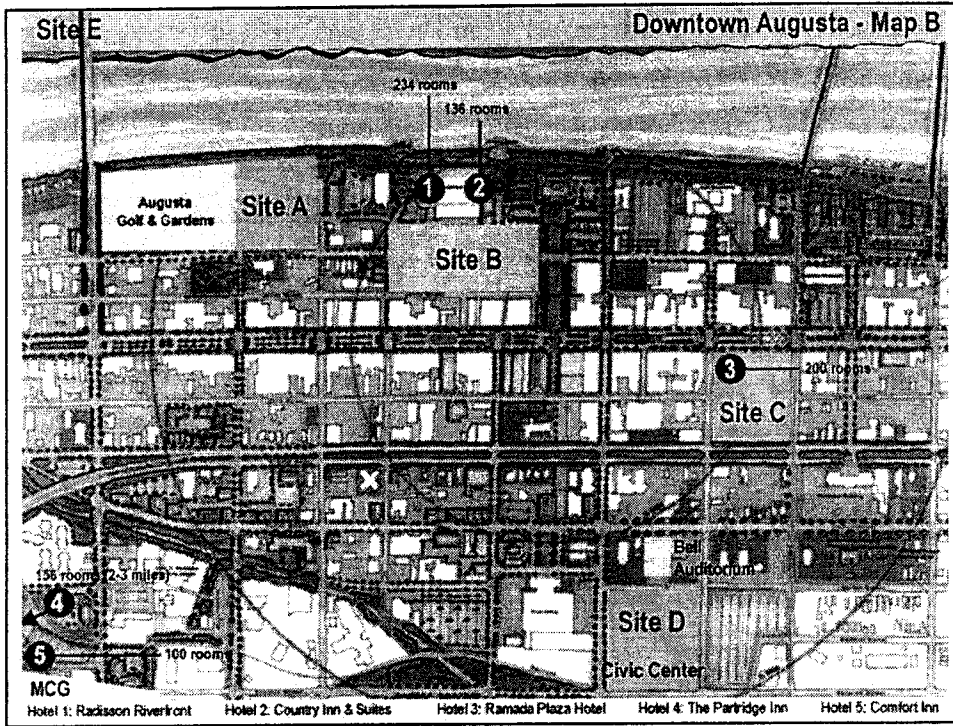
## Q: Why Care about “Package”?



Source: Successful Meetings Magazine

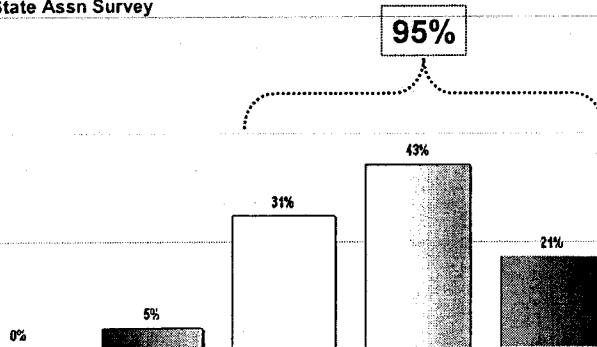
A: Augusta Cares Because Its Customers Care

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**Reynolds Site B:** *"Assume that the Center is built connected to the City's Conference Center and Radisson complex... How likely would you be to consider hosting your event in Augusta?"*

GA State Assn Survey



Reynolds Street Site Received the Highest Penetration Rate

## Study Conclusions

### Augusta:

- Good Meeting and Ballroom Space
- Excellent Hotel Supply in Proximity to Meeting Space
- Poor Exhibit Space
  - New Exhibit Space is Needed, and
  - Can be Supported in the Market
- Faces Strong Competition

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## Study Recommendations

**Project Must Provide for Best Package so as to Maximize the City's Economic Impact Potential by:**

- ❶ Building 40,000 to 50,000 square feet of Net Exhibit Space, and
- ❷ Building the Facility Adjacent/Attached to existing City Conference Center at the Marriott, and
- ❸ Establishing a Room Block Agreement with Radisson.

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## Reynolds Street Site

- Shown to be Best Among City's Customers
- Adjacent to Existing City-owned Conference Center
- Operational Cost Savings to City
- Approved by Augusta Tomorrow's Masterplan
- Site offers Potential for City to Expand with *Contiguous* Trade Center Space in Future
- Room Block Agreement Potential
- Site Makes Most Economic Sense for City

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## Cost to Create Package

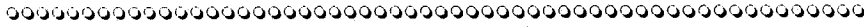
	Reynolds Street	Other Site
Trade Center	\$20,000,000	\$20,000,000
Conference & Ballroom Space	0	9,500,000
Hotels*	0	10,500,000
Parking	5,000,000	5,000,000
Land	TBD	TBD
<b>TOTAL</b>	<b>\$25,000,000</b>	<b>\$45,000,000</b>

*\* Note: Estimated Public Investment required to Induce private Sector to Build 400-room Full-Service Hotel Property based on Raleigh NC transaction (\$20M).*

Why Spend \$20M More to Attract (at Most) the Same Customers and Economic Impact Potential ?

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## Site: Hotel Developers



*“Exhibition space (in Augusta) will not be successful without adjacent ballroom and meeting space, as well as an adjacent full-service hotel.....we believe that the most effective location for the exhibit space is adjacent to and connected to the existing meeting and ballroom space.”*

**- Noble Hotels**

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## Site: Customers

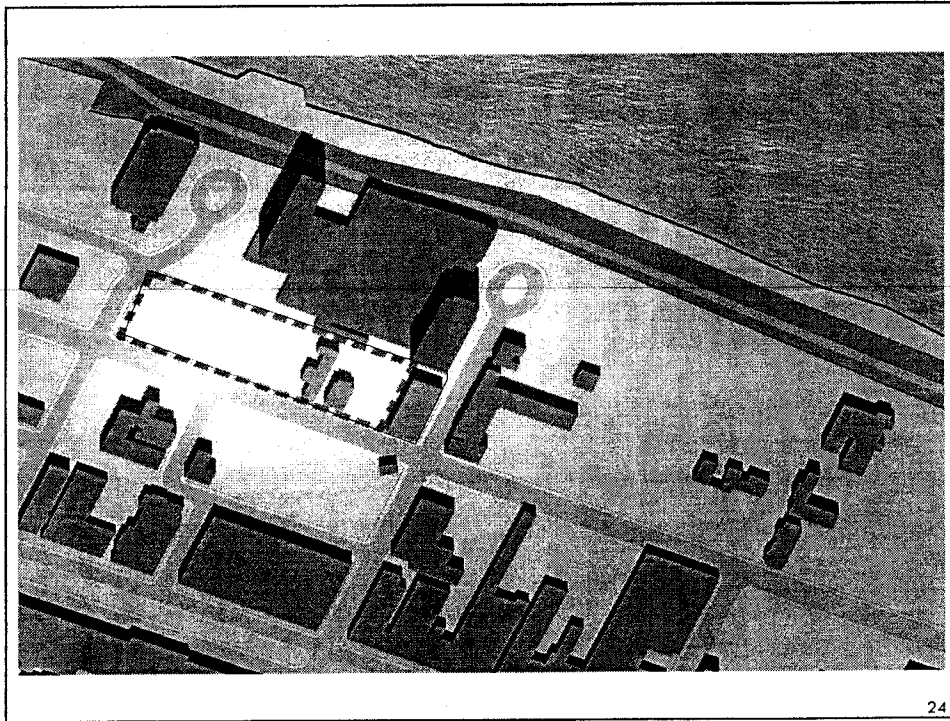
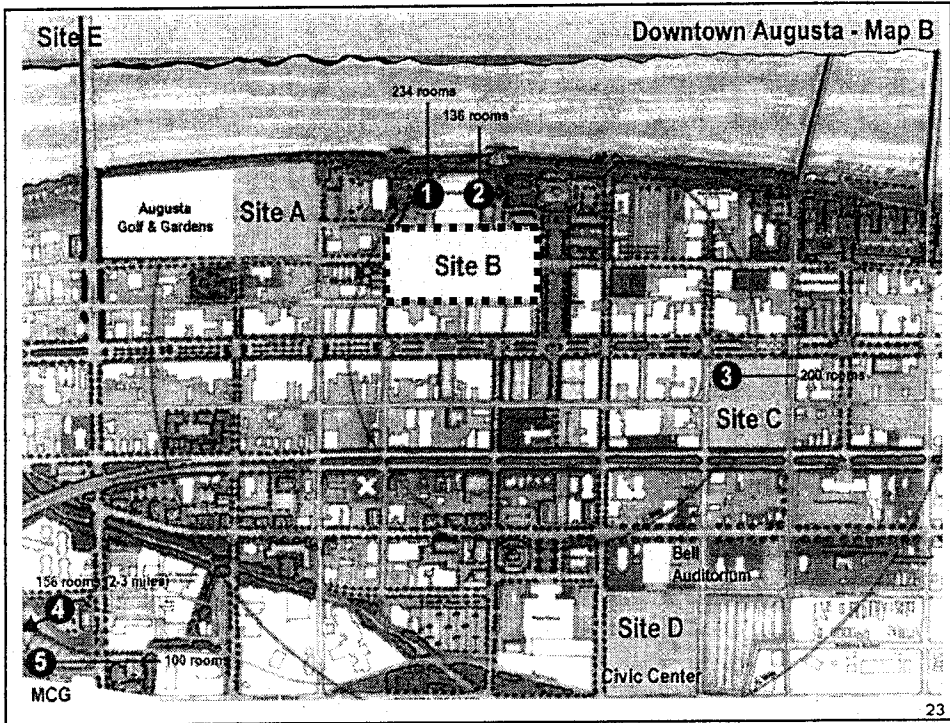


*“Tradeshows often are the financial backing for a convention, the Trade Center must be together with the meeting space. I would never consider it (Augusta) if it’s not in the same building.....Conference attendees want to be where the action is, as in your Riverwalk and downtown, not in a removed location.”*

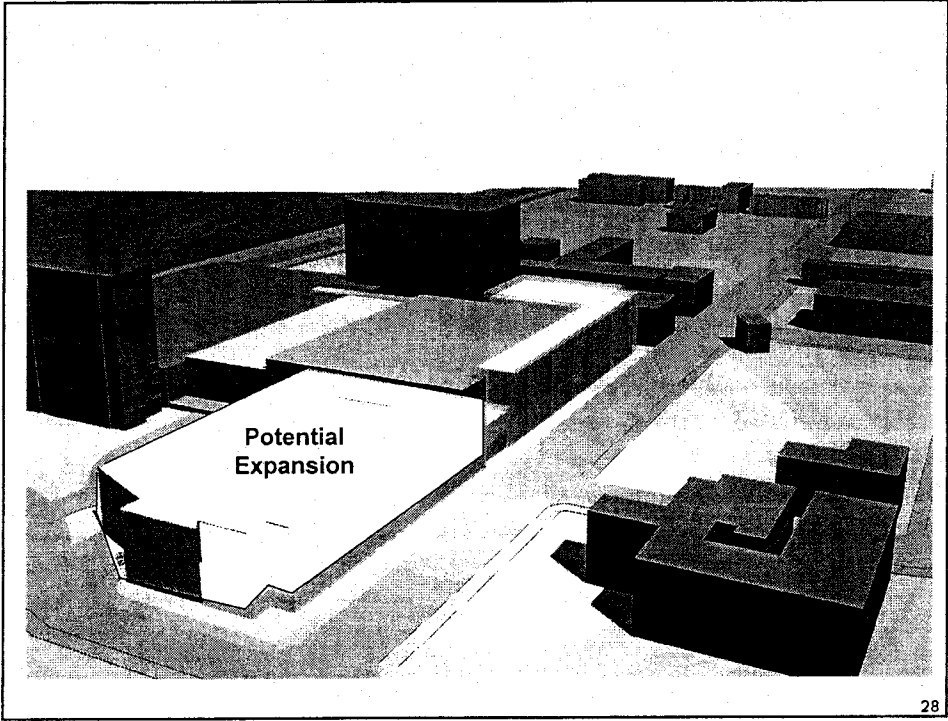
**- Janice Eidson**  
*Director, Conferences & Training*  
**Georgia Municipal Association**

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## Room Block Agreement

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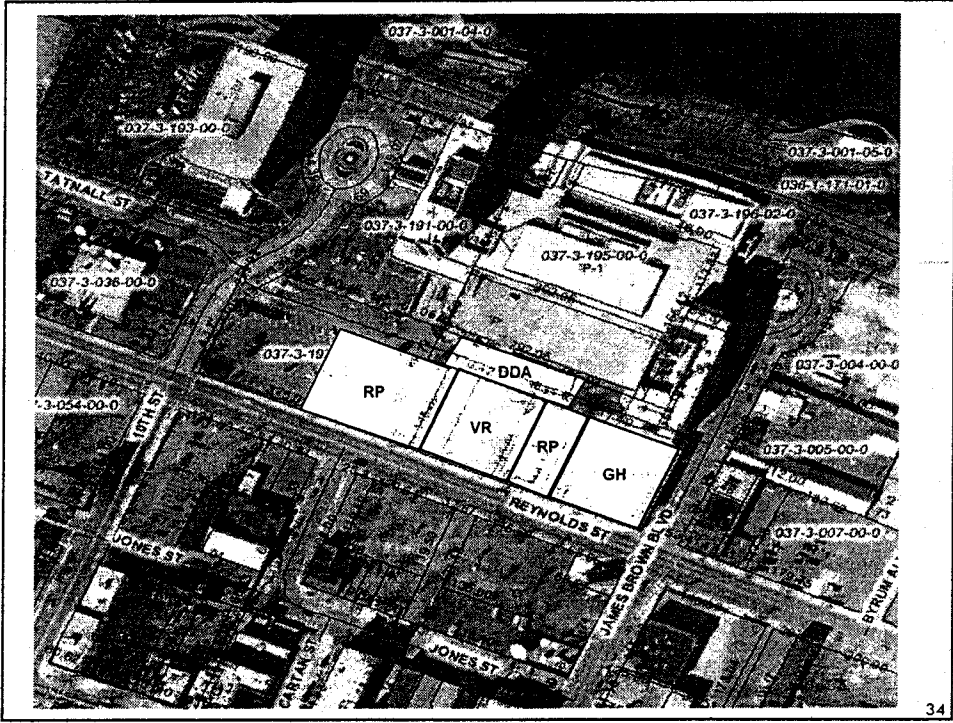
# RBA Basics

- RBA's were Created to Provide Cities with Guarantee of Achieving Economic Goals
  - Many Cities Subsidized Convention Center Hotel Projects and afterwards were Denied Access to the Very Hotel Rooms they Helped Create (e.g.. Miami Beach)
  - First Formal RBA: Charlotte NC w/ Westin Hotel
- RBA's Allow the CVB the Control it Needs to Attract Large, City-wide Events to a Community which Help All Hotels, Restaurants and Others
  - Puts the Package in Place Years before the Event Takes Place, which is when Large Events Typically Make Destination Selections

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HOW FAR IN ADVANCE IS EVENT REQUESTING TO BOOK?			
More than 36 mos.	24 to 36 mos.	12 to 24 mos.	Less than 12 mos.
<b>Public's Rights (City, CVB, and/or Authority)</b>			
<ul style="list-style-type: none"> <li>• Can require Hotel to provide the greater of 55% of all rooms and suites or 205 rooms and suites, plus commensurate Convention and Trade Center space. CVB can request from Hotel an increase in rooms and meeting space, and request shall not be unreasonably denied.</li> <li>• Has this right 14 days per month (or more if the last group booked for the month under this agreement increases the total to more than 14), not to exceed 10 mid-week days (i.e., Monday-Thursday).</li> <li>• Hotel room rates for any rooms blocked will not be less than the Hotel's average room rate for the same month of the prior year plus 3.0% per annum (i.e. 3 years = 9%).</li> </ul>	<ul style="list-style-type: none"> <li>• Can require Hotel to provide the greater of 64.5% of all rooms and suites, plus commensurate Convention and Trade Center space. CVB can request from Hotel an increase in rooms and meeting space, and request shall not be unreasonably denied.</li> <li>• Has this right 10 days per month (or more if the last group for the month under this agreement increases the total to more than 10), not to exceed 7 mid-week days (i.e., Monday-Thursday).</li> <li>• Hotel room rates for any rooms blocked will not be less than the Hotel's average room rate for the same month of the prior year plus 3.0% per annum (i.e. 3 years = 9%).</li> </ul>	<ul style="list-style-type: none"> <li>• Can require Hotel to provide the greater of 67.2% of all rooms and suites, plus commensurate Convention and Trade Center space, but only to the extent that rooms and/or meeting space are available.</li> <li>• Hotel room rates for any rooms blocked will exceed the Hotel's average room rate for the same month of the prior year by at least 3.0% per annum (i.e. 3 years = 9%).</li> </ul>	<ul style="list-style-type: none"> <li>• Can request room block and/or Convention and Trade Center space; approval based on                             <ul style="list-style-type: none"> <li>• (a) Space availability, and</li> <li>• (b) Event's ability to pay standard rental rates</li> </ul> </li> </ul>
<b>Hotel Owner's Rights</b>			
<ul style="list-style-type: none"> <li>• Will hold rooms and meeting space available for qualified City-Wide event block.</li> <li>• Hotel and CVB/Public have ability to utilize the terms of the RBA on a first come, first served basis.</li> </ul>	<ul style="list-style-type: none"> <li>• Must hold rooms and meeting space available for CVB block.</li> <li>• Can book up to 20 nights per month for Hotel Events, provided CVB does not have a City-Wide Event booked on a definite or tentative basis for which it may require a block.</li> </ul>	<ul style="list-style-type: none"> <li>• Must provide room block and commensurate meeting space if rooms and/or meeting space are available.</li> <li>• Does not have to hold rooms available for CVB block.</li> </ul>	<ul style="list-style-type: none"> <li>• Coordinates all rooms and meeting space.</li> </ul>
<p>1) This agreement applies only to City-Wide Events, defined as events demonstrated to utilize 400 or more peak-night rooms in the market area.                  2) If blocked rooms are not guaranteed 30 days prior to arrival, all rooms will be released and available on a first come first served basis.</p>			





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## Summary & Next Steps

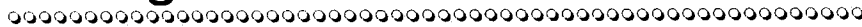
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## Summary



- City's Currently Receiving Acceptable ROI from Original Investment in Conference Center
  - 2005: \$1.7M Direct Return on \$9.9M Investment (17.4%)
- However, Lack of Control of Conference Space & Hotel Rooms Weakens City's Ability to Maximize its ROI via Large, City-wide Events
- Opportunity Exists for Augusta to:
  - Complete the Original Vision & Package via Trade/Exhibition Space AND Establish a RBA
  - Maximize Economic Impact (ROI), Create More Jobs, and Continue Revitalization of Augusta

## Augusta's ROI: Conf. Center



(Based on 2005 Actual Results)

Hotel/Motel Tax:	\$510,000
Sales Tax (City Portion Only):	440,000
Property Tax:	568,000
Parking Fees:	177,000
5% Facility Rental Revenues:	27,000
<b>TOTAL CITY REVENUES:</b>	<u><u>\$1,722,000</u></u>
Original City Investment:	<u><u>\$9,906,000</u></u>
<b>CITY'S RETURN ON INVESTMENT:</b>	<u><u>17.4%</u></u>

## Next Steps

1. Engineering Services Committee Approval
2. Full Commission Approval
3. Complete Market Validation Study
4. Begin Facility Programming

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## The TEE Center

### TRADE, EXHIBIT & EVENT

#### TASK FORCE RECOMMENDATIONS:

- Site
- Room Block Agreement
- Operational Agreement

August, 2006

*Augusta*  
Georgia

AUGUSTA  
CONVENTION & VISITOR BUREAU

STRATEGIC ADVISORY GROUP LLC





**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Xethanol Plant Easement**

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**Department:** County Attorney - Stephen E. Shepard, Attorney

**Caption:** Motion to grant 15 x 1000 foot easement to Xethanol Corporation across property located on Levee Road behind 1736 Lovers Lane.

**Background:** Xethanol Corporation whose facilities are located on 1736 Lovers Lane need the 15 x 1000 foot easement for used corn in their production of ethanol. The easement property is not being used by Augusta-Richmond County and would have no effect on the Levee Road.

**Analysis:** At this point in time we need Commission approval with getting an appraisal, survey and title search for the Augusta-Richmond County property located behind 1736 Lovers Lane.

**Financial Impact:** N/A.

**Alternatives:** Either grant or deny the easement for the non-exclusive, perpetual right ti use of the easement area.

**Recommendation:** Approve the motion.

**Funds are Available in the Following Accounts:** N/A.

**REVIEWED AND APPROVED BY:**

**Administrator.**  
**Clerk of Commission**

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**Engineering Services Committee Meeting  
9/11/2006 1:30 PM**

**Highland Ave Improvements Construction Contract with Parsons Water and Infrastructure**

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**Department:** Utilities

**Caption:** Authorize award and execution of a contract amendment to the Construction Management at Risk Contract with Parsons Water and Infrastructure for the construction of the Highland Ave Improvements Project in the amount of \$63,521,523.

**Background:** The Augusta Commission, in June of 2005, approved the selection of Parsons Water & Infrastructure Inc. to provide Construction Manager at Risk Services for the Highland Ave. Project. This decision was made, in part, because of the high degree of construction difficulty of the project. The plant is a very old facility and the working space is extremely limited. In addition, making tie-ins to existing piping while the plant remains in operation will require a contractor who is experienced in this type of complex construction. A construction management company with the experience of working in old facilities, scheduling deliveries of critical components, and selecting specialty subcontractors is essential. Over the past year Parsons has developed and completed the "2006 Winter Work Construction Package". This selected work needed to be performed during the winter months (a low water production period) in order for the larger project to proceed with a shorter construction duration. The Construction Manager at Risk has also been developing a strategy necessary to construct the larger project. This task included developing work packages designed to take advantage various specialty discipline subcontractors and encourage local community contractors to participate as well. In addition to developing a construction strategy, Parsons had also commented to leveraging local and minority firms in the competitive biddings process. The goal set for this project was an aggressive 35% for local/minority businesses. We are proud to report that the established goal has been exceeded and the local/minority participation is 38%. A more complete breakdown of the success is discussed in the attachment.

After several extensive negotiation sessions, the Augusta Utilities Department and Parsons Water Infrastructure have agreed on a project scope and a price that could be brought to the Commission for consideration. The compensation being presented is a guaranteed maximum price (GMP) for the work as scoped.

**Analysis:** Approving this contract will allow the Construction Manager at Risk, Parsons Water & Infrastructure, to begin construction on the Highland Ave Water Treatment Plant Improvements. With the completion of this project, the Highland Ave Plant will be able to provide 60 MGD of safe and reliable potable water to Augusta for many years to come. The local/minority participation goals have been exceeded. The compensation being recommended represents a reasonable fee for the management services and construction of the project.

**Financial Impact:** Funds for this project are allocated from: 509043410-5425110/80120100-5425110 \$1,942,570.00 510043410-5425110/80120100-5425110 \$5,722,760.00 5110434105425110/80120100-5425110 \$55,856,193.00

**Alternatives:** No alternatives are recommended.

**Recommendation:** We recommend the Commission authorize award and execution of a contract amendment to the Construction Management at Risk Contract with Parsons Water and Infrastructure for the construction of the Highland Ave Improvements Project in the amount of \$63,521,523. This recommendation is contingent upon reaching contract terms mutually agreeable with the Administrator, City Attorney, and Parsons.

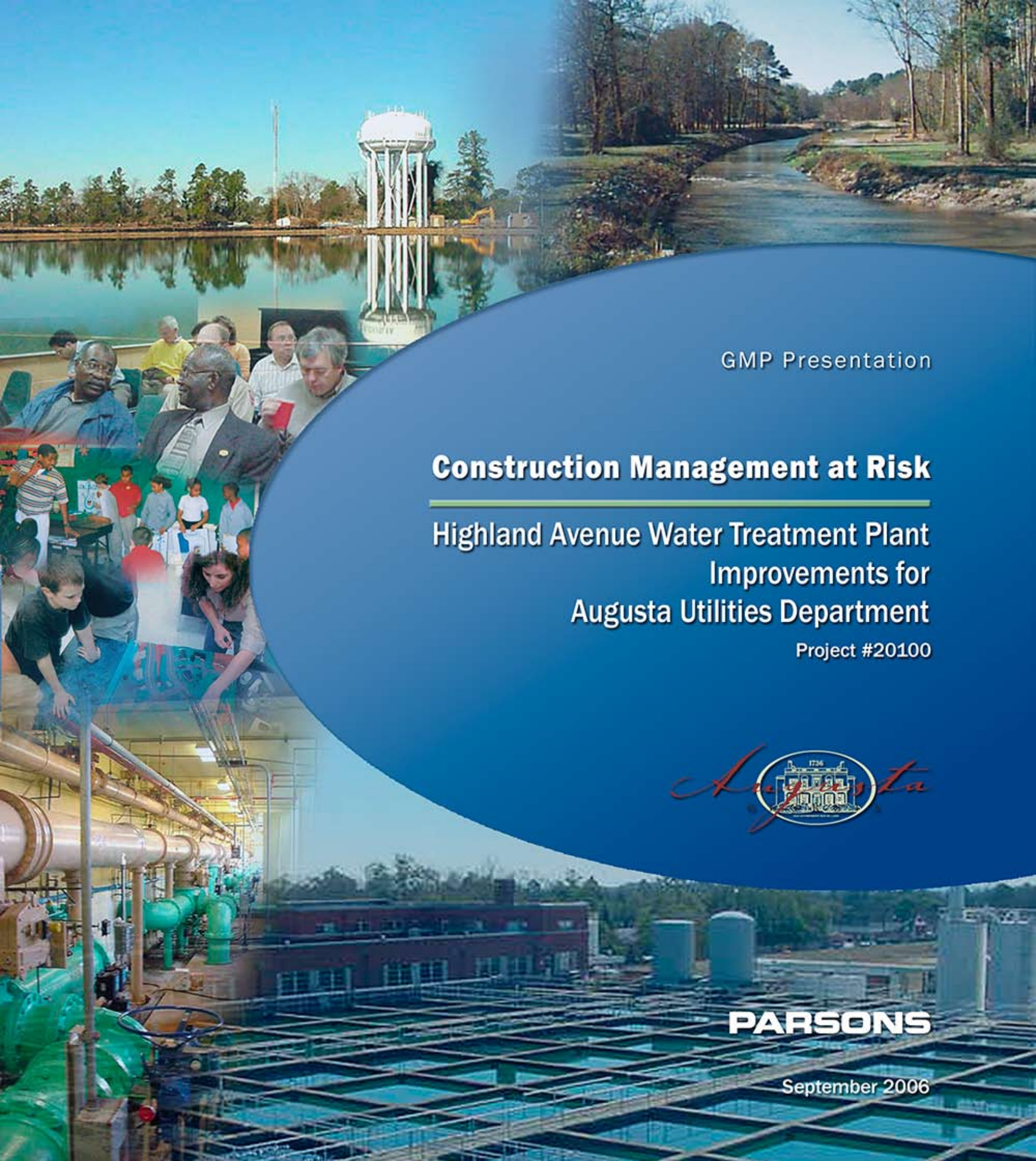
**Funds are Available in the Following Accounts:** 509043410-5425110/80120100-5425110 \$1,942,570.00 510043410-5425110/80120100-5425110 \$5,722,760.00 5110434105425110/80120100-5425110 \$55,856,193.00

**REVIEWED AND APPROVED BY:**

**Finance.  
Procurement.**

**Disadvantaged Business Enterprise.  
Administrator.  
Clerk of Commission**

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GMP Presentation

## **Construction Management at Risk**

Highland Avenue Water Treatment Plant  
Improvements for  
Augusta Utilities Department

Project #20100



**PARSONS**

September 2006

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### SECTION 4

Status of L/M/WBE Participation  
L/M/WBE Utilization Spreadsheet

### SECTION 5

Project Cost

### SECTION 6

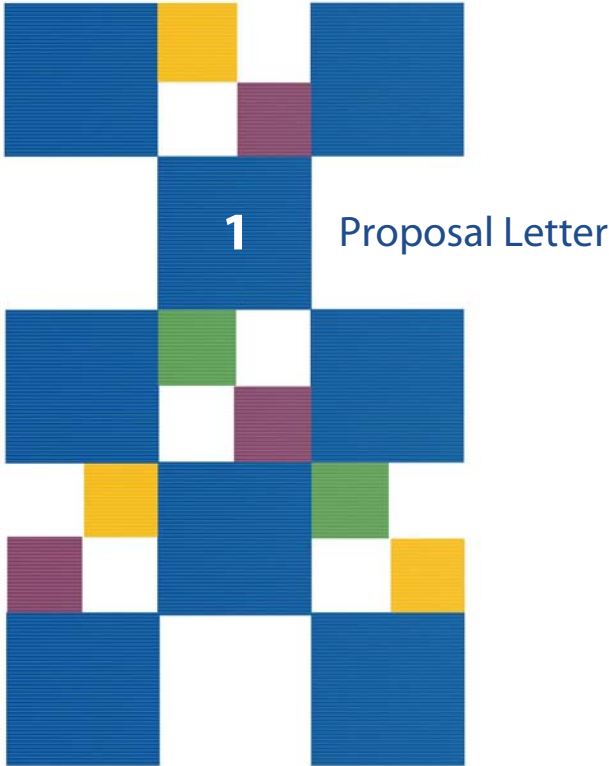
Project Schedule  
Milestones

### SECTION 7

Project Labor Rates

### SECTION 8

Insurance Coverage





September 1, 2006

Ms. Geri Sams, Director  
Augusta Procurement Department  
530 Greene Street, Room 605  
Augusta, GA 30911

RE: Highland Avenue Water Treatment Plant Project

Dear Ms. Sams:

Parsons Water & Infrastructure, Inc. and our project team members appreciate the opportunity to propose our Guaranteed Maximum Price (GMP) for services required to expand the Highland Avenue Water Treatment Plant for Augusta. With valuable assistance from your department, we have solicited prices from the market and incorporated the evaluated best value prices into the GMP. This GMP is contingent upon the parties reaching mutually agreeable contract terms and conditions. Parsons has separately submitted revised contract terms and conditions which are currently in negotiations.

Augusta and the project team recognize the potential for this project's economic impact on the region. To optimize the impact on the region, Augusta and our team have established a goal of 35% overall participation by Local, Minority and Women-Owned Businesses. We are jointly proud to report that the participatory 35% has been *exceeded* and incorporated into the GMP. Additionally, local labor will be recruited to execute the project.

The Highland Avenue Water Treatment Plant project is of a complex nature, due to the addition of new features both within and outside of the existing facilities. These features include:

- Construction of a new filter building and auxiliary pump stations
- Upgrade and modification of the Old Filter Building
- Installation of new underground distribution piping
- Installation of new Instrumentation & Controls and Electrical Systems
- Addition of architectural features to Clearwell Walls parallel to Highland Avenue and Iris Street
- Repaving of Central Avenue
- Addition of new landscaping to enhance beautification of the area

The project's delivery is further complicated by the requirement for all work to be accomplished in a systematic manner, ensuring that the plant is able to maintain full water production capacity during the entire two and one-half year project duration. Parsons has committed a team of experienced professionals to ensure that the plant meets the water supply needs of the community, both during and after the project's completion. The Project Director, Project Manager and Construction Manager bring to this project more than 80 years of combined experience in delivering projects of this complexity. These team leaders' performance will be well complemented by the balance of the Parsons Team.

We welcome this opportunity to partner with Augusta to expand the Highland Avenue Water Treatment Plant in order to meet the current and future needs of the citizens of Augusta. We are qualified and prepared to embrace the challenges of this exciting project and are confident in its successful delivery.

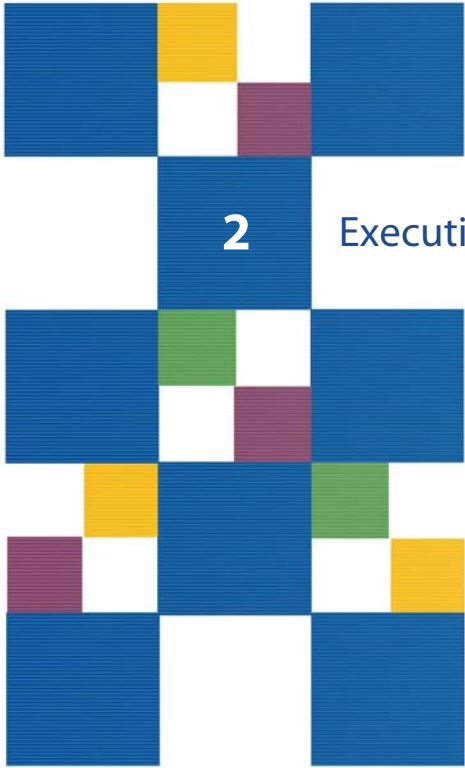
Sincerely,

**PARSONS**



Walid M. Hatoum, P.E.  
Sr. Vice President





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Executive Summary



## 2 EXECUTIVE SUMMARY

### 2.1 *Project Description*

The Highland Avenue Water Treatment Plant (HAWTP) currently provides water to the City of Augusta at a consistent rate of 45 million gallons per day (mgd) and is capable of providing a peak rate of 60mgd. This project has been developed and designed to increase the capacity of the plant to meet a consistent water demand of 60mgd. To provide this upgrade, the project has been designed to include:

- New raw water intakes into the east and west holding basins, including stainless steel intake screens.
- A new filter building which will house 7 new filters along with new chemical feed facilities, laboratory, maintenance facility, administrative offices and plant control room. The existing chemical feed systems will be decommissioned after successful startup of the new systems.
- A new Ft. Gordon pump station. This pump station will provide high service pumping of finished water along with providing wash water pumping for backwashing of filters in both the new and existing filter buildings. This building will house the main switchgear for the new power distribution system.
- Modifications to the existing flocculation and sedimentation basins. These modifications include concrete repairs to the existing structure and the addition of a water cannon piping system for wash down of basins
- Modifications to the existing filter building which will include the removal and replacement of one filter. The existing filter building's electrical distribution system will be reconstructed and upgraded as the final stage of the project after the new filter building is commissioned.
- A new fiber optic backbone will be installed integrating the new and existing facilities and systems.
- Security system upgrades including camera coverage across the entire facility.
- A new power distribution system which will provide power to all new and existing systems.

### 2.2 *Method of Delivery*

Augusta has chosen the Construction Management at Risk approach to deliver this project. Benefits of this delivery system are:

- The CM-at-risk delivery method allowed Augusta to select Parsons as their construction manager based on qualifications. This has resulted in making Parsons a member of a collaborative project team—thus reducing risk for Augusta, the design engineer (Gannett Fleming, Inc.), and Parsons.
- The CM @ Risk delivery method applies a contractor's perspective and input to planning and design decisions and provides the ability to fast track early components of construction. This was readily seen by the construction of the "Winter 2006 construction package" which enabled Augusta to relocate pipelines



during the critical 2006 winter period and reduce schedule impacts during the winter of 2007.

- CM-at-risk is similar in many ways to a design-bid-build approach. Parsons (CM@Risk) acts as the general contractor during construction, assuming the risk of subcontracting the work, and guaranteeing the completion of the project.
- By making Parsons (CM@Risk) an integral member of the project team, responsibility for construction has been centralized under a single contract. This approach will produce a more manageable, predictable project that will save time and money.
- To ensure a positive relationship, Parsons has engaged in a number of practices to involve and benefit our clients and their communities. We are responsible for complete bid documents, pre-bid meetings, and a fair and competitive bid process. We share the results of all bids with the Augusta for review prior to final selection. We have done this while never losing sight of our most important overall goal of providing 35% participation on the project to Local, Minority, and Women Owned Businesses.

### 2.3 *Services provided to Enhance Delivery*

A distinct advantage of this CM-at-risk project is that Augusta has already received pre-construction services such as scheduling, budgeting/estimates, value engineering, and constructability reviews prior to design completion. We have met continuously throughout the completion of the design to ensure that we have a complete understanding of Augusta's goals and expectations. During pre-construction, our CM@Risk team provided the following services that will continue to reap benefits throughout the construction phase of this project:

- Constructability reviews. Collaboration with the project team has yielded results that have been seen not only in cost results, but also in schedule
- Value engineering
- Master schedule development
- Coordination and development of owner furnished equipment packages.
- Development of L/M/WBE plans
- Project information website



**AUGUSTA UTILITIES DEPARTMENT**  
**HIGHLAND AVENUE WATER TREATMENT PLANT EXPANSIONS**  
*OVERALL PROJECT DRAWING LISTING*

<b>DRAWING NUMBER</b>	<b>DESCRIPTION</b>
<b>GENERAL</b>	
G1	VOLUME 1 – INDEX OF DRAWINGS
G2	VOLUMES 2 & 3 – INDEX OF DRAWINGS
G3	GENERAL NOTES
G4	GENERAL LEGEND AND STANDARD NOTATION
<b>CIVIL</b>	
C1	CIVIL SITE PLAN AND KEY PLAN
C2	STRUCTURE DEMOLITION PLAN
C2A	FORT GORDON PUMP STATION DEMOLITION and CFES SAMPLE DETAILS
C3	EXISTING CHEMICAL DROP OFF LOCATIONS
C4	GRADING AND PAVING PLAN
C5	GRADING AND PAVING PLAN
C6	GRADING AND PAVING PLAN
C7	GRADING AND PAVING PLAN
C8	GRADING, PAVING, AND PAYMENT LAYOUT PLAN
C9	PAVEMENT LAYOUT, MARKING, AND SIGNAGE PLAN
C10	PAVEMENT LAYOUT, MARKING, AND SIGNAGE PLAN
C11	PAVEMENT LAYOUT, MARKING, AND SIGNAGE PLAN
C12	PIPING PLAN
C13	PIPING PLAN
C14	PIPING PLAN
C15	PIPING PLAN
C16	PIPING PLAN
C17	ENLARGED PIPING PLAN
C18	ENLARGED PIPING PLAN
C19	ENLARGED PIPING PLAN
C20	SANITARY SEWER LIFT STATION AND MISCELLANEOUS DETAILS
C21	PIPE PROFILES - RAW WATER MAINS
C22	PIPE PROFILES – MIXED WATER MAINS
C23	PIPE PROFILES – FILTERED WATER MAINS
C24	PIPE PROFILES – WASHWATER SUPPLY MAINS
C25	PIPE PROFILES – FINISHED AND HIGH PRESSURE WATER MAINS
C26	PIPE PROFILES – STORM SEWERS
C27	PIPE PROFILES – STORM SEWERS
C28	PIPE PROFILES – DRAIN LINES
C29	PIPE PROFILES – SANITARY SEWER AND HIGH PRESSURE WATER MAINS
C30	PIPE PROFILES – PUMP SUCTION AND RELOCATED MAINS
C31	MISCELLANEOUS CONNECTIONS DETAILS
C32	PROFILES – CHEMICAL DUCT BANKS
C33	PROFILES – CHEMICAL DUCT BANKS
C34	CHEMICAL MANHOLE DETAILS
C35	CHEMICAL DUCT BANK DETAILS AND CHEMICAL CONDUIT CONTENTS
C36	VALVE VAULT DETAILS AND COORDINATE CONTROL
C37	PIPING COORDINATE CONTROL TABLES
C38	CAST-IN-PLACE VAULTS – VALVE VAULT NO. 10 DETAILS
C39	CAST-IN-PLACE VAULTS – VALVE VAULT NO. 11 DETAILS
C40	MISCELLANEOUS DETAILS
C41	CLEARWELL SUMP DETAILS



**DRAWING  
 NUMBER**

**DESCRIPTION**

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C42	ROAD PROFILES
C43	ROAD PROFILES AND COORDINATE CONTROL TABLES
C44	ROAD SECTIONS
C45	CURB, SIDEWALK, ROAD SECTION, AND TRENCH DETAILS
C46	STORM AND SANITARY MANHOLE AND CATCH BASIN DETAILS
C47	STORM WATER SINGLE WING CATCH BASIN DETAILS, GA DOT STD. 1033D
C48	SPILL CONTAINMENT AND MISC DETAILS
C49	GATE DETAILS
C50	GATE AND FENCE DETAILS
C51	RESERVOIR EMBANKMENT TRENCH DETAILS
C52	CENTRAL AVENUE SECTIONS
C53	EROSION AND SEDIMENTATION CONTROL PLAN
C54	EROSION AND SEDIMENTATION CONTROL PLAN – NEW FILTER BUILDING
C55	EROSION AND SEDIMENTATION CONTROL PLAN – CARBON BLDG
C56	EROSION AND SEDIMENTATION CONTROL PLAN – CENTRAL AVE
C57	EROSION AND SEDIMENTATION CONTROL PLAN – UV/PUMP STATION
C58	EROSION AND SEDIMENTATION CONTROL DETAILS
C59	CENTRAL AVENUE DETOUR PLAN
C59A	IRIS STREET DETOUR PLAN
C60	TRAFFIC CONTROL UPGRADES – PINE NEEDLE ROAD & WRIGHTSBORO RD
C61	TRAFFIC CONTROL UPGRADES – DANIEL VILL. SHOP, CTR & WRIGHTSBORO RD
C62	TRAFFIC CONTROL UPGRADES – HIGHLAND AVE & WRIGHTSBORO RD.
C63	TRAFFIC CONTROL UPGRADES – HIGHLAND AVE & CENTRAL AVE.
C64	TRAFFIC CONTROL UPGRADES – MONTE SANO AVE & CENTRAL AVE.
C65	TRAFFIC CONTROL UPGRADES – MONTE SANO AVE & WRIGHTSBORO RD.
C66	CLEARWELL WALL IMPROVEMENTS – SITE PLAN
C67	CLEARWELL WALL IMPROVEMENTS – PLANTING PLAN

**ARCHITECTURAL**

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A02	NEW FILTER BLDG. LIFE SAFETY FIRST FLOOR PLAN
A03	NEW FILTER BLDG. LIFE SAFETY SECOND FLOOR PLAN
A1	NEW FILTER BLDG. FIRST FLOOR PLAN
A2	NEW FILTER BLDG. FIRST FLOOR PLAN
A3	NEW FILTER BLDG. SECOND FLOOR PLAN
A4	NEW FILTER BLDG. SECOND FLOOR PLAN
A5	NEW FILTER BLDG. ROOF PLAN
A5a	NEW FILTER BLDG. ROOF DECK PLAN
A6	NEW FILTER BLDG. EXTERIOR BUILDING ELEVATIONS
A7	NEW FILTER BLDG. EXTERIOR BUILDING ELEVATIONS
A8	NEW FILTER BLDG. BUILDING SECTIONS
A9	NEW FILTER BLDG. BUILDING SECTIONS
A10	NEW FILTER BLDG. WALL SECTIONS
A11	NEW FILTER BLDG. WALL SECTIONS
A12	NEW FILTER BLDG. WALL SECTIONS
A13	NEW FILTER BLDG. ENLARGED PLANS AND ELEVATIONS
A14	NEW FILTER BLDG. ENLARGED STAIRS PLAN
A15	NEW FILTER BLDG. REFLECTED CEILING PLAN
A16	NEW FILTER BLDG. FINISH SCHEDULE
A17	NEW FILTER BLDG. DOOR AND FRAME SCHEDULE
A18	NEW FILTER BLDG. DOOR AND WINDOW DETAILS
A19	NEW FILTER BLDG. STAIR DETAILS
A20	CARBON BLDG. FLOOR PLAN
A21	CARBON BLDG. ROOF PLAN
A21a	CARBON BLDG. ROOF DECK PLAN
A22	CARBON BLDG. BUILDING SECT./EXT. ELEVATIONS
A23	CARBON BLDG. WALL SECTIONS



**DRAWING  
 NUMBER**

**DESCRIPTION**

A24	OLD FILTER BLDG. FIRST FLOOR DISPLAY LAYOUT
A24a	OLD FILTER BLDG. FIRST FLOOR DISPLAY LAYOUT
A25	OLD FILTER BLDG. SECOND FLOOR DISPLAY LAYOUT
A25a	OLD FILTER BLDG. SECOND FLOOR DISPLAY LAYOUT
A26	OLD FILTER BLDG. THIRD FLOOR DISPLAY LAYOUT
A27	OLD FILTER BLDG. FIRST FLOOR DEMOLITION PLAN
A28	OLD FILTER BLDG. SECOND FLOOR DEMOLITION PLAN
A29	UV/PUMP STATION BLDG. FLOOR PLAN
A30	UV/PUMP STATION BLDG. ROOF PLAN
A31	UV/PUMP STATION BLDG. WALL SECTIONS
A32	UV/PUMP STATION BLDG. EXTERIOR ELEVATIONS
A33	UV/PUMP STATION BLDG. EXTERIOR ELEVATIONS
A34	UV/PUMP STATION BLDG. BUILDING SECTIONS
A35	UV/PUMP STATION BLDG. FINISH SCHEDULE
A36	UV/PUMP STATION BLDG. DOOR AND FRAMES
A37	MOCKINGBIRD HILL VILLAGE
A38	DECORATIVE FENCE DETAILS
A39	CLEARWELL WALL IMPROVEMENTS – SITE PLAN
A40	CLEARWELL WALL IMPROVEMENTS – WALL ELEVATIONS
A41	CLEARWELL WALL IMPROVEMENTS – WALL SECTIONS

**STRUCTURAL**

S1	GENERAL – NOTES AND DETAILS
S2	GENERAL – MISCELLANEOUS CONCRETE DETAILS
S3	NEW FILTER BLDG. FIRST FLOOR PLAN A
S3A	NEW FILTER BLDG. FIRST FLOOR PLAN A
S4	NEW FILTER BLDG. FIRST FLOOR PLAN B
S4A	NEW FILTER BLDG. FIRST FLOOR PLAN B
S5	NEW FILTER BLDG. SECOND FLOOR PLAN A
S6	NEW FILTER BLDG. SECOND FLOOR PLAN B
S7	NEW FILTER BLDG. SECTIONS
S7A	NEW FILTER BLDG. SECTIONS
S8	NEW FILTER BLDG. SECTIONS
S8A	NEW FILTER BLDG. SECTIONS
S8A	NEW FILTER BLDG. SECTIONS
S9	NEW FILTER BLDG. SECTIONS
S9A	NEW FILTER BLDG. SECTIONS
S10	NEW FILTER BLDG. SECTIONS
S11	NEW FILTER BLDG. SECTIONS
S12	NEW FILTER BLDG. PARTIAL FOUNDATION PLAN AND DETAILS
S13	NEW FILTER BLDG. CONCRETE GIRDER AND BEAM DETAILS
S14	NEW FILTER BLDG. ROOF FRAMING PLAN
S15	NEW FILTER BLDG. MISCELLANEOUS METAL FRAMING
S16	NEW FILTER BLDG. MONORAIL DETAILS
S17	CARBON BLDG. PLAN SECTIONS AND DETAILS
S18	OLD FILTER BLDG. PLAN AND SECTIONS
S19	NEW FILTER BLDG. RETAINING WALL DETAILS
S20	NEW FILTER BLDG. STAIRS TO HOLDING BASIN
S21	SEDIMENTATION BASINS 6 AND 7- FLUME PLAN
S22	FLOCCULATION/SEDIMENTATION BASINS 4 AND 5 – FLUME PLAN
S23	FLOCCULATION/SEDIMENTATION BASINS 1-3 – FLUME PLAN
S24	UV/PUMP STATION BLDG. FOUNDATION PLAN SECTIONS AND DETAILS
S24A	UV/PUMP STATION BLDG. – SECTIONS
S25	UV/PUMP STATION BLDG. SLAB PLAN SECTIONS AND DETAILS
S26	UV/PUMP STATION BLDG. ROOF FRAMING PLAN AND DETAILS
S27	UV/PUMP STATION BLDG. MISC. DETAILS
S28	FLOCCULATOR NO. 1 AND NO. 2 – PLAN, ELEVATIONS, SECTIONS & DETAILS
S29	FLOCCULATOR NO. 4 AND NO. 5 – PLAN, ELEVATIONS, SECTIONS & DETAILS



**DRAWING  
 NUMBER**

**DESCRIPTION**

S30	FLOCCULATOR NO. 6 AND NO. 7 – PLAN, ELEVATIONS, SECTIONS & DETAILS
S31	EXISTING BASINS 1-3 – CONCRETE REPAIR PLAN
S32	EXISTING BASINS 4 & 5 – CONCRETE REPAIR PLAN
S33	EXISTING BASINS 5 & 7 – CONCRETE REPAIR PLAN
S34	EXISTING BASINS REPAIR – NOTES AND DETAILS
S35	EXISTING BASINS 1 – 3 – RAILING PLAN
S36	EXISTING BASINS 4 – 7 – RAILING PLAN
S37	GENERAL PIPE SUPPORT DETAILS
S38	GENERAL LADDER DETAILS
S39	CLEARWELL WALL IMPROVEMENTS – PLAN
S40	CLEARWELL WALL IMPROVEMENTS – SECTIONS AND DETAILS

**PROCESS**

P1	CARBON AND NEW FILTER BUILDINGS PROCESS LEGEND AND ABBREVIATIONS
P2	PROCESS – PIPING SYMBOLS
P3	PROCESS – HYDRAULIC PROFILE
P4	PROCESS – PROCESS SCHEMATIC RAW WATER THROUGH FILTERS
P5	PROCESS – PROCESS SCHEMATIC FILTERS THROUGH CLEARWELLS
P6	CARBON BUILDING – PROCESS PLAN AND SECTIONS
P7	NEW FILTER BUILDING UNDERSLAB A – BASE DESIGN
P7A	NEW FILTER BUILDING UNDERSLAB PLAN A-ALTERNATE
P8	NEW FILTER BUILDING UNDERSLAB PLAN B – BASE DESIGN
P8A	NEW FILTER BUILDING UNDERSLAB PLAN B – ALTERNATE
P9	NEW FILTER BUILDING UNDERSLAB PLAN C – BASE DESIGN
P9A	NEW FILTER BUILDING UNDERSLAB PLAN C – ALTERNATE
P10	NEW FILTER BUILDING UNDERSLAB PLAN D
P11	NEW FILTER BUILDING UNDERSLAB PLAN E
P12	NEW FILTER BUILDING FIRST FLOOR PLAN A – BASE DESIGN
P12A	NEW FILTER BUILDING FIRST FLOOR PLAN A – ALTERNATE
P13	NEW FILTER BUILDING FIRST FLOOR PLAN B – BASE DESIGN
P13A	NEW FILTER BUILDING FIRST FLOOR PLAN B – ALTERNATE
P14	NEW FILTER BUILDING FIRST FLOOR PLAN C – BASE DESIGN
P14A	NEW FILTER BUILDING FIRST FLOOR PLAN C – ALTERNATE
P15	NEW FILTER BUILDING FIRST FLOOR PLAN D
P16	NEW FILTER BUILDING FIRST FLOOR PLAN E
P17	NEW FILTER BUILDING SECOND FLOOR PLAN A
P18	NEW FILTER BUILDING SECOND FLOOR PLAN B
P19	NEW FILTER BUILDING SECOND FLOOR PLAN C
P20	NEW FILTER BUILDING SECOND FLOOR PLAN E
P21	NEW FILTER BUILDING FIRST FLOOR SMALL PIPING PLAN A
P22	NEW FILTER BUILDING FIRST FLOOR SMALL PIPING PLAN B
P23	NEW FILTER BUILDING FIRST FLOOR SMALL PIPING AND INSTRUMENT IDENTIFICATION PLAN C
P24	NEW FILTER BUILDING FIRST FLOOR SMALL PIPING PLAN D
P25	NEW FILTER BUILDING FIRST FLOOR SMALL PIPING AND INSTRUMENT IDENTIFICATION PLAN E
P26	NEW FILTER BUILDING FIRST FLOOR INSTRUMENT IDENTIFICATION PLAN A
P27	NEW FILTER BUILDING FIRST FLOOR INSTRUMENT IDENTIFICATION PLAN B
P28	NEW FILTER BUILDING FIRST FLOOR INSTRUMENT IDENTIFICATION PLAN D
P29	NEW FILTER BUILDING SECTIONS
P30	NEW FILTER BUILDING SECTIONS – BASE DESIGN
P30A	NEW FILTER BUILDING SECTIONS – ALTERNATE
P31	NEW FILTER BUILDING SECTIONS
P32	NEW FILTER BUILDING SECTIONS
P33	NEW FILTER BUILDING FILTER DETAILS
P34	NEW FILTER BUILDING LABORATORY PLANS AND SECTIONS
P35	NEW FILTER BUILDING LABORATORY SECTIONS AND DETAILS





<b>DRAWING NUMBER</b>	<b>DESCRIPTION</b>
P36	CARBON AND NEW FILTER BUILDINGS CHEMICAL FEED SCHEMATICS CARBON AND POTASSIUM PERMANGANATE
P37	NEW FILTER BUILDING CHEMICAL FEED SCHEMATICS ALUM AND POLYMER
P38	NEW FILTER BUILDING CHEMICAL FEED SCHEMATIC SODIUM HYPOCHLORITE
P39	NEW FILTER BUILDING CHEMICAL FEED SCHEMATICS FLUORIDE AND CORROSION INHIBITOR
P40	NEW FILTER BUILDING CHEMICAL FEED SCHEMATICS LIME AND SPARE CHEMICAL
P40A	PROCESS – EQUIPMENT NUMBERING PROTOCOL COMPUTERIZED MAINTENANCE MANAGEMENT SYSTEM
P41	PROCESS – CHEMICAL FEED DETAILS
P42	PROCESS – MISCELLANEOUS DETAILS
P43	PROCESS – RESTRAINED MECHANICAL COUPLING DETAILS
P44	EXISTING LIME FACILITIES BUILDING DEMOLITION AND PROPOSED PLANS AND SECTIONS
P45	EXISTING SED BASIN AND OLD FILTER BUILDING SLIDE GATE SMALL PIPING PLAN
P46	FLOCCULATION/SEDIMENTATION BASIN NOS. 1 THROUGH 3 DEMOLITION PLANS
P47	FLOCCULATION/SEDIMENTATION BASIN NOS. 4 AND 5 DEMOLITION PLANS
P48	FLOCCULATION/SEDIMENTATION BASIN NOS. 6 AND 7 DEMOLITION PLANS
P49	FLOCCULATION/SEDIMENTATION BASIN 1 THROUGH 7 DEMOLITION SECTIONS
P50	FLOCCULATION/SEDIMENTATION BASIN NOS. 1 THROUGH 3 PLAN A
P51	FLOCCULATION/SEDIMENTATION BASIN NOS. 1 THROUGH 3 PLAN B
P52	FLOCCULATION/SEDIMENTATION BASIN NOS. 1 THROUGH 3 LONGITUDINAL SECTION AND DETAILS
P53	FLOCCULATION/SEDIMENTATION BASIN NOS. 1 THROUGH 3 CROSS SECTIONS
P54	FLOCCULATION/SEDIMENTATION BASIN NOS. 4 AND 5 PLAN A
P55	FLOCCULATION/SEDIMENTATION BASIN NOS. 4 AND 5 PLAN B
P56	FLOCCULATION/SEDIMENTATION BASIN NOS. 4 AND 5 LONGITUDINAL SECTIONS AND DETAILS
P57	FLOCCULATION/SEDIMENTATION BASIN NOS. 4 AND 5 CROSS SECTIONS
P58	FLOCCULATION/SEDIMENTATION BASIN NOS. 6 AND 7 PLAN A
P59	FLOCCULATION/SEDIMENTATION BASIN NOS. 6 AND 7 PLAN B
P60	FLOCCULATION/SEDIMENTATION BASIN NOS. 6 AND 7 LONGITUDINAL SECTIONS AND DETAILS
P61	FLOCCULATION/SEDIMENTATION BASIN NOS. 6 AND 7 CROSS SECTIONS
P62	UV/PUMP STATION BUILDING UNDERSLAB PLAN A
P63	UV/PUMP STATION BUILDING UNDERSLAB PLAN B
P64	UV/PUMP STATION BUILDING FIRST FLOOR PLAN A
P65	UV/PUMP STATION BUILDING FIRST FLOOR PLAN B
P66	UV/PUMP STATION BUILDING FIRST FLOOR INSTRUMENT IDENTIFICATION AND SMALL PIPING PLAN A
P67	UV/PUMP STATION BUILDING SECTIONS
P68	UV/PUMP STATION BUILDING SECTIONS
P68A	UV/PUMP STATION BUILDING SECTIONS
P69	UV/PUMP STATION BUILDING SECTIONS AND DETAILS
P70	UV/PUMP STATION BUILDING DETAILS
P71	DEMOLITION PLAN – OLD FILTER BLDG. FILTER NO. 1, PUMPS, AND RELATED EQUIPMENT
P72	DEMOLITION – FILTER NO. 1 SECTIONS
P73	OLD FILTER BLDG. – FILTER NO. 1 AND INSTRUMENT IDENTIFICATION PLAN
P74	OLD FILTER BLDG. – DEMOLITION, FILTER RINSE, AND WASH WATER IMPROVEMENTS
P75	OLD FILTER BLDG. – FILTER OPERATING FLOOR – INSTRUMENT IDENTIFICATION PLAN – FILTER NO. 1
P76	FILTER NO. 1 SECTIONS
P77	OLD FILTER BUILDING – FILTER DETAILS AND BLOWER ROOM PLAN AND SECTIONS



**DRAWING  
 NUMBER**

**DESCRIPTION**

**INSTRUMENTATION**

I1	LEGEND, SYMBOLS, NOTES AND ABBREVIATIONS
I2	CONTROL SYSTEM ARCHITECTURE – PRIMARY AND ETHERNET NETWORK
I3	CONTROL SYSTEM ARCHITECTURE – DEVICE LEVEL NETWORK
I4	NEW FILTER BLDG. RAW WATER INTAKE AND FLOW SPLIT P&ID
I5	FLOCCULATION SEDIMENTATION BASIN P&ID
I6	OLD FILTER BUILDING FILTERS 1 TO 10 P&ID
I7	NEW FILTER BLDG. FILTERS 11 TO 17 P&ID
I8	MIXING BASIN AND CLEARWELL P&ID
I9	LOW LIFT PUMP STATION P&ID
I10	FORT GORDON PUMP STATION P&ID
I11	MISCELLANEOUS SYSTEMS P&ID'S
I12	NEW FILTER BLDG. CARBON AND PRE. POST LIME CHEMICAL FEED SYSTEMS P&ID
I13	NEW FILTER BLDG. POTASSIUM PERMANGANATE CHEMICAL SYSTEM P&ID
I14	NEW FILTER BLDG. ALUM AND POLYMER CHEMICAL SYSTEMS P&ID
I15	NEW FILTER BLDG. SODIUM HYPOCHLORITE GENERATION SYSTEM P&ID
I16	NEW FILTER BLDG. SODIUM HYPOCHLORITE FEED CHEMICAL SYSTEM P&ID
I17	NEW FILTER BLDG. FLUORIDE AND CORROSION INHIBITOR FEED
I18	NEW FILTER BLDG. SPARE CHEMICAL P&ID
I19	INSTRUMENTATION INSTALLATION DETAILS
I20	INSTRUMENTATION INSTALLATION DETAILS
I21	INSTRUMENTATION INSTALLATION DETAILS

**INSTRUMENTATION LOOP DIAGRAMS**

L1	LOOP DIAGRAMS
L2	LOOP DIAGRAMS
L3	LOOP DIAGRAMS
L4	LOOP DIAGRAMS
L5	LOOP DIAGRAMS
L6	LOOP DIAGRAMS
L7	LOOP DIAGRAMS
L8	WIRING DIAGRAMS & LAYOUTS
L9	WIRING DIAGRAMS & LAYOUTS

**ELECTRICAL**

E1	ELECTRICAL LEGEND & GENERAL NOTES
E2	SITE PLAN AND BLOCK DIAGRAMS
E3	ELECTRICAL DEMOLITION PLAN NORTHWEST
E4	ELECTRICAL DEMOLITION PLAN NORTHEAST
E5	ELECTRICAL DEMOLITION PLAN – SOUTH
E6	EXTERIOR LIGHTING – NORTHWEST
E7	EXTERIOR ELECTRICAL LIGHTING – NORTHEAST
E8	EXTERIOR ELECTRICAL LIGHTING – SOUTH
E9	EXTERIOR ELECTRICAL POWER & COMMUNICATION PLAN – RESERVOIRS
E10	EXTERIOR ELECTRICAL POWER & COMMUNICATION PLAN – NORTH
E11	EXTERIOR ELECTRICAL POWER & COMMUNICATION PLAN – SOUTH
E12	NEW FILTER BUILDING ELECTRICAL SINGLE LINE DIAGRAM (MSG-NAB)
E13	NEW FILTER BUILDING SINGLE LINE DIAGRAM (MCC-NC)
E14	NEW FILTER BUILDING SINGLE LINE DIAGRAM (MCC-ND)
E15	NEW FILTER BUILDING GROUNDING & COMMUNICATIONS RISER DIAGRAMS
E16	NEW FILTER BUILDING FIRST FLOOR PLAN A – LIGHTING
E17	NEW FILTER BUILDING FIRST FLOOR PLAN B – LIGHTING
E18	NEW FILTER BUILDING SECOND FLOOR PLAN A – LIGHTING
E19	NEW FILTER BUILDING SECOND FLOOR PLAN B – LIGHTING
E20	NEW FILTER BUILDING FIRST FLOOR PLAN A – POWER



**DRAWING  
 NUMBER**

**DESCRIPTION**

DRAWING NUMBER	DESCRIPTION
E21	NEW FILTER BUILDING FIRST FLOOR PLAN B – POWER
E22	NEW FILTER BUILDING FIRST FLOOR PLAN C – POWER
E23	NEW FILTER BUILDING SECOND FLOOR PLAN A – POWER
E24	NEW FILTER BUILDING SECOND FLOOR PLAN B – POWER
E25	NEW FILTER BUILDING FIRST FLOOR PLAN A – SIGNALING & COMMUNICATION
E26	NEW FILTER BUILDING FIRST FLOOR PLAN B – SIGNALING & COMMUNICATION
E27	NEW FILTER BUILDING SECOND FLOOR PLAN A – SIGNALING & COMMUNICATION
E28	NEW FILTER BUILDING SECOND FLOOR PLAN B – SIGNALING & COMMUNICATION
E29	NEW FILTER BUILDING LIGHTNING PROTECTION & GROUNDING PLAN
E30	NEW FILTER BUILDING ELECTRICAL ROOM PLANS & ELEVATIONS
E31	NEW FILTER BUILDING ELECTRICAL MOTOR CONTROL ELEMENTARY DIAGRAMS
E32	NEW FILTER BUILDING PANELBOARD SCHEDULES
E33	NEW FILTER CARBON BUILDING PANELBOARD SCHEDULES
E34	CARBON BUILDING SINGLE LINE & RISER DIAGRAMS
E35	CARBON BUILDING FLOOR PLANS – LIGHTING, POWER, SIGNALING & COMMUNICATION
E36	LIME BUILDING FLOOR PLAN – DEMOLITION, POWER, SIGNALING & COMMUNICATION
E37	OLD FILTER BLDG. DEMOLITION – FIRST FLOOR
E38	OLD FILTER BLDG. DEMOLITION – SECOND & THIRD FLOORS
E39	OLD FILTER BLDG. SINGLE LINE DIAGRAM
E40	OLD FILTER BLDG. GROUNDING & COMMUNICATIONS RISER DIAGRAMS
E41	OLD FILTER BLDG. FIRST FLOOR PLAN – LIGHTING
E42	OLD FILTER BLDG. SECOND FLOOR PLANT – LIGHTING
E43	OLD FILTER BLDG. FIRST FLOOR PLANT A – POWER
E44	OLD FILTER BLDG. FIRST FLOOR PLAN B – POWER
E45	OLD FILTER BLDG. SECOND & THIRD FLOOR PLANS – POWER
E46	OLD FILTER BLDG. FIRST FLOOR PLAN A – SIGNALING & COMMUNICATION
E47	OLD FILTER BLDG. FIRST FLOOR PLAN B – SIGNALING & COMMUNICATION
E48	OLD FILTER BLDG. SECOND FLOOR PLAN – SIGNALING & COMMUNICATION
E49	OLD FILTER BLDG. LIGHTNING PROTECTION & GROUNDING PLAN
E50	OLD FILTER BLDG. ELECTRICAL ROOM PLAN, MCC ELEVATIONS
E51	OLD FILTER BLDG. MOTOR CONTROL ELEMENTARY DIAGRAMS
E52	OLD FILTER BLDG. PANELBOARD SCHEDULES
E53	UV/PUMP STATION BLDG. SINGLE LINE DIAGRAM (MSG-UAB) SHT. 1
E54	UV/PUMP STATION BLDG. SINGLE LINE DIAGRAM (MSG-UAB) SHT. 2
E55	UV/PUMP STATION BLDG. SINGLE LINE DIAGRAM (MSG-UCD)
E56	UV/PUMP STATION BLDG. SINGLE LINE DIAGRAMS (MMCC-UH & MCC-UE)
E57	UV/PUMP STATION BLDG. SINGLE LINE DIAGRAMS (MCC-UF)
E58	UV/PUMP STATION BLDG. SINGLE LINE DIAGRAMS (MCC-UG)
E59	UV/PUMP STATION BLDG. GROUNDING & COMMUNICATION RISER DIAGRAM
E60	UV/PUMP STATION BLDG. SWITCHGEAR OPERATIONAL LOGIC
E61	UV/PUMP STATION BLDG. FLOOR PLAN – LIGHTING
E62	UV/PUMP STATION BLDG. FLOOR PLAN A – POWER
E63	UV/PUMP STATION BLDG. FLOOR PLAN B – POWER
E64	UV/PUMP STATION BLDG. FLOOR PLAN A – SIGNALING & COMMUNICATION
E65	UV/PUMP STATION BLDG. FLOOR PLAN B – SIGNALING & COMMUNICATION
E66	UV/PUMP STATION BLDG. LIGHTNING PROTECTION, GROUNDING & ROOF POWER PLAN A
E67	UV/PUMP STATION BLDG. LIGHTNING PROTECTION, GROUNDING & ROOF POWER PLAN B
E68	UV/PUMP STATION BLDG. ELECTRICAL EQUIPMENT ARRANGEMENT
E69	UV/PUMP STATION BLDG. ELECTRICAL EQUIPMENT ELEVATIONS
E70	UV/PUMP STATION BLDG. GENERATORS PLAN
E71	UV/PUMP STATION BLDG. MOTOR CONTROL ELEMENTARY DIAGRAMS SHT. 1
E72	UV/PUMP STATION BLDG. MOTOR CONTROL ELEMENTARY DIAGRAMS SHT. 2
E73	UV/PUMP STATION BLDG. PANELBOARD SCHEDULES
E74	SCHEMATICS SHT. 1
E75	SCHEMATICS SHT. 2



**DRAWING  
 NUMBER**

**DESCRIPTION**

E76	DETAILS – ELECTRICAL DUCTBANKS
E77	DETAILS – LIGHTING SHT. 1
E78	DETAILS – LIGHTING SHT. 2
E79	DETAILS – POWER SHT. 1
E80	DETAILS – POWER SHT. 2
E81	DETAILS – FIBER-OPTIC RISER – SIGNALING & COMMUNICATION
E82	DETAILS – LIGHTNING PROTECTION

**MECHANICAL**

M1	SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES
M2	NEW FILTER BLDG. FIRST FLOOR PLAN A – HVAC
M3	NEW FILTER BLDG. FIRST FLOOR PLAN B – HVAC
M4	NEW FILTER BLDG. SECOND FLOOR PLAN A – HVAC
M5	NEW FILTER BLDG. SECOND FLOOR PLAN B – HVAC
M6	NEW FILTER BLDG. SECOND FLOOR PLAN B – HVAC PIPING
M7	CARBON BUILDING PLAN AND SECTIONS – HVAC
M8	UV PUMP STATION – HVAC
M9	NEW FILTER BLDG. ENLARGED PLANS, & SECTIONS – HVAC
M10	NEW FILTER BLDG. SECTIONS AND DETAILS – HVAC
M11	SCHEDULES – HVAC
M12	DETAILS – HVAC
M13	UV PUMP STATION SCHEDULES AND DETAILS – HVAC
M14	NEW FILTER BLDG. FOUNDATION PLAN A – PLUMBING
M15	NEW FILTER BLDG. FOUNDATION PLAN B – PLUMBING
M16	NEW FILTER BLDG. FIRST FLOOR PLAN A – PLUMBING
M17	NEW FILTER BLDG. FIRST FLOOR PLAN B – PLUMBING
M18	NEW FILTER BLDG. SECOND FLOOR PLAN A – PLUMBING
M19	NEW FILTER BLDG. SECOND FLOOR PLAN B – PLUMBING
M20	NEW FILTER BLDG. ENLARGED FLOOR PLAN – PLUMBING
M21	NEW FILTER BLDG. ENLARGED FLOOR PLAN & DETAILS – PLUMBING
M22	CARBON BLDG. – PLANS AND SECTION – PLUMBING
M23	UV PUMP STATION PLANS AND DETAILS – PLUMBING
M24	NEW FILTER BLDG. DOMESTIC WATER DIAGRAM – PLUMBING
M25	NEW FILTER BLDG. – SANITARY SEWER DIAGRAMS – PLUMBING
M26	NEW FILTER BLDG. – SANITARY SEWER DIAGRAMS – PLUMBING
M27	SCHEDULES & DIAGRAMS – PLUMBING
M28	DETAILS & DIAGRAM – PLUMBING
M29	NEW FILTER BLDG. – FIRST FLOOR PLAN – FIRE PROTECTION
M30	NEW FILTER BLDG. – FIRST FLOOR PLAN - FIRE PROTECTION
M31	NEW FILTER BLDG. – SECOND FLOOR PLAN – FIRE PROTECTION
M32	NEW FILTER BLDG. – DETAILS – FIRE PROTECTION

**SECURITY SYSTEM**

SS1	SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
SS2	ESS SYSTEM ARCHITECTURE AND FO RISER
SS3	ESS SYSTEM CABINET OVERVIEW
SS4	CCTV VIDEO SYSTEM RISER
SS5	CCTV VIDEO SYSTEM RISER
SS6	SITE PLAN – NORTH
SS7	SITE PLAN – SOUTH
SS8	NEW FILTER BUILDING
SS9	EXISTING FILTER BUILDING
SS10	UV/PUMP STATION BUILDING
SS11	CARBON BUILDING
SS12	RISERS DIAGRAMS
SS13	RISERS DIAGRAMS
SS14	RISERS DIAGRAMS



**DRAWING  
NUMBER**

**DESCRIPTION**

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SS15	ENCLOSURE POWER AND GROUNDING ARRANGEMENT
SS16	ENCLOSURE POWER AND GROUNDING ARRANGEMENT
SS17	CAMERA INSTALLATION DETAILS
SS18	MISCELLANEOUS DETAILS
SS19	SITE PLAN – NORTH INTRUSION-DETECTION COVERAGE AREA
SS20	SITE PLAN – SOUTH INTRUSION-DETECTION COVERAGE AREA

**ZEL DRAWINGS**

Z1	YARD PIPING PLAN AND DETAILS
Z2	DEMOLITION PLAN
Z3	YARD PIPING STRUCTURES
Z4	PUMP STATION PIPING PLAN AND SECTIONS
Z5	PUMP STATION PIPING PLAN AND BASE DETAILS
Z6	ELECTRICAL PLAN AND DETAILS
Z7	LIGHTING PLAN AND SCHEDULES



**AUGUSTA UTILITIES DEPARTMENT**  
**HIGHLAND AVENUE WATER TREATMENT PLANT EXPANSIONS**  
*OVERALL SPECIFICATION LISTING*

**DIVISION 1 – GENERAL REQUIREMENTS**

01010	SUMMARY OF WORK
01030	ALTERNATES
01045	CUTTING AND PATCHING
01050	FIELD ENGINEERING
01150	MEASUREMENT AND PAYMENT
01200	PROJECT MEETINGS
01300	SUBMITTALS
01400	QUALITY CONTROL
01510	TEMPORARY UTILITIES
01530	CONSTRUCTION BARRIERS
01540	SECURITY
01550	CONSTRUCTION ACCESS
01560	TEMPORARY ENVIRONMENTAL CONTROLS
01570	TRAFFIC REGULATION
01580	PROJECT IDENTIFICATION AND SIGNS
01590	FIELD OFFICE
01600	MATERIAL HANDLING, STORAGE AND PROTECTION
01630	SUBSTITUTIONS
01640	MODEL NUMBERS SPECIFIED FOR EQUIPMENT AND MATERIALS
01656	DISINFECTION OF WATER MAINS
01658	DISINFECTION OF STRUCTURES AND EQUIPMENT
01666	TESTING OF PIPING
01669	TESTING PROCESS SYSTEMS
01710	PROJECT CLEANUP
01720	PROJECT RECORD DOCUMENTS
01730	OPERATION AND MAINTENANCE MANUALS

**DIVISION 2 – SITE CONSTRUCTION**

02010	SUBSURFACE EXPLORATION
02011	BORINGS
02050	DEMOLITION
02055	REMOVAL AND ABANDONMENT OF EXISTING FACILITIES
02100	SITE PREPARATION
02151	SUPPORT OF EXCAVATIONS
02210	SITE GRADING
02220	STRUCTURAL EXCAVATION, BACKFILL AND COMPACTION
02221	TRENCHING, BACKFILLING, AND COMPACTION
02230	ROADWAY EXCAVATION, BACKFILL AND COMPACTION
02260	FINISH GRADING
02270	SLOPE PROTECTION AND EROSION CONTROL
02430	DRAINAGE STRUCTURES, PIPE AND FITTINGS
02444	CHAIN LINK AND PICKET FENCE
02480	LANDSCAPING AND SEEDING
02500	PAVING AND SURFACING
02601	MANHOLES
02604	CHAMBERS, VAULTS AND TANKS
02713	WATER SYSTEM
02722	PIPED WASTEWATER SEWER
02834	MODULAR CONCRETE RETAINING WALLS



**DIVISION 3 – CONCRETE**

- 03100 CONCRETE FORMWORK
- 03200 CONCRETE REINFORCEMENT
- 03300 CAST-IN-PLACE CONCRETE
- 03420 PRECAST PRESTRESSED SECTIONS
- 03600 GROUT
- 03720 REPAIR OF EXISTING CONCRETE

**DIVISION 4 - MASONRY**

- 04100 MORTAR AND MASONRY GROUT
- 04300 UNIT MASONRY SYSTEMS
- 04735 ARCHITECTURAL CAST STONE

**DIVISION 5 – METALS**

- 05100 STRUCTURAL METAL FRAMING
- 05210 STEEL JOISTS
- 05310 METAL ROOF DECKING
- 05500 METAL FABRICATIONS
- 05600 ALUMINUM FABRICATIONS

**DIVISION 6 – WOOD AND PLASTIC**

- 06100 ROUGH CARPENTRY
- 06200 FINISH CARPENTRY
- 06610 GLASS FIBER FABRICATIONS

**DIVISION 7 – THERMAL AND MOISTURE PROTECTION**

- 07110 DAMPPROOFING
- 07190 VAPOR BARRIERS/RETARDANTS
- 07200 INSULATION
- 07270 FIRESTOPPING
- 07400 MANUFACTURED ROOFING PANELS
- 07720 ROOF ACCESSORIES
- 07900 JOINT SEALERS

**DIVISION 8 – DOORS AND WINDOWS**

- 08110 METAL DOORS
- 08112 STEEL FRAMES
- 08200 WOODS DOORS
- 08342 FIBERGLASS DOORS AND FRAMES
- 08351 ACCORDION FOLDING DOORS
- 08360 OVERHEAD ROLLING SERVICE DOORS
- 08400 STOREFRONT SYSTEMS
- 08520 ALUMINUM WINDOWS
- 08710 DOOR HARDWARE
- 08800 GLASS AND GLAZING

**DIVISION 9 – FINISHES**

- 09206 GYPSUM PLASTER
- 09260 GYPSUM BOARD SYSTEMS
- 09300 TILE
- 09400 TERRAZZO
- 09511 SUSPENDED ACOUSTIC CEILINGS
- 09520 ACOUSTICAL SOUND CONTROL – SPRAY-ON TYPE
- 09650 RESILIENT FLOORING
- 09670 FLUID-APPLIED FLOORING



**DIVISION 9 – FINISHES (continued)**

- 09800 ACOUSTICAL WALL PANELS
- 09900 PAINTING
- 09961 ELASTOMERIC COATINGS
- 09967 CHEMICAL RESISTANT COATINGS

**DIVISION 10 – SPECIALTIES**

- 10110 MARKERBOARDS AND TACKBOARDS
- 10155 TOILET PARTITIONS (SOLID PHENOLIC)
- 10190 CURTAIN CUBICLES
- 10200 METAL LOUVERS
- 10350 FLAGPOLE
- 10400 METAL PLAQUE
- 10411 DISPLAY CASE
- 10420 CLEARWELL WALL PLAQUE
- 10440 SIGNS
- 10500 LOCKERS
- 10800 TOILET AND BATH ACCESSORIES
- 10900 FIREFIGHTING ACCESSORIES

**DIVISION 11 – EQUIPMENT**

- 11005 GENERAL EQUIPMENT REQUIREMENTS
- 11202 SLUICE GATES
- 11203 SLIDE GATES
- 11204 INTAKE SCREEN EQUIPMENT
- 11211 IN-LINE MULTISTAGED CENTRIFUGAL PUMP
- 11212 HORIZONTAL MOUNTED END SUCTION CENTRIFUGAL PUMPS
- 11214 VERTICAL TURBINE PUMPS
- 11216 CHEMICAL TRANSFER PUMPS
- 11218 SAMPLE PUMPS
- 11220 FLOCCULATION EQUIPMENT
- 11223 FIBERGLASS WEIR PLATES STOP PLATES AND GUIDES
- 11226 STATIC MIXER EQUIPMENT
- 11231 VOLUMETRIC CHEMICAL FEED EQUIPMENT
- 11240 LIQUID POLYMER FEED EQUIPMENT
- 11242 CHEMICAL FEED PUMPS
- 11244 ON SITE SODIUM HYPOCHLORITE GENERATION EQUIPMENT
- 11245 CHEMICAL TANKS
- 11248 POTASSIUM PERMANGANATE STORAGE AND FEED SYSTEM
- 11304 PACKAGED PUMP STATION – SUBMERSIBLE PUMPS
- 11312 PROCESS COMPRESSED AIR SYSTEM
- 11374 ROTARY BLOWERS – NEW FILTERS
- 11374A ROTARY BLOWERS – EXISTING FILTER
- 11452 RESIDENTIAL APPLIANCES
- 11603 LABORATORY EQUIPMENT

**DIVISION 12 – FURNISHINGS**

- 12600 LABORATORY FURNITURE

**DIVISION 13 – SPECIAL CONSTRUCTION**

- 13410 PROCESS MONITORING AND CONTROL SYSTEM (PMCS)
- 13420 INSTRUMENTS
- 13430 INSTRUMENT ENCLOSURES AND CONTROL PANELS
- 13451 PROGRAMMABLE LOGIC CONTROLLERS (PLC)
- 13455 HUMAN MACHINE INTERFACE (HMI)
- 13521 FILTER UNDERDRAIN SYSTEM – NEW FILTERS





**DIVISION 13 – SPECIAL CONSTRUCTION** (continued)

- 13521A FILTER UNDERDRAIN SYSTEM – EXISTING FILTER
- 13522 MEDIA SYSTEMS – NEW FILTERS
- 13522A MEDIA SYSTEMS – EXISTING FILTERS
- 13524 FIBERGLASS-FILTER WASHWATER TROUGHS – NEW FILTERS
- 13524A FIBERGLASS-FILTER WASHWATER TROUGHS – EXISTING FILTERS
- 13700 SECURITY ACCESS AND SURVEILLANCE SYSTEM
- 13720 CCTV VIDEO SYSTEM
- 13900 FIRE SUPPRESSION SYSTEMS

**DIVISION 14 – CONVEYING SYSTEMS**

- 14300 HOISTS AND CRANES

**DIVISION 15 – MECHANICAL**

- 15010 GENERAL MECHANICAL REQUIREMENTS
- 15050 BASIC MECHANICAL MATERIALS AND METHODS
- 15060 SUPPORTS, ANCHORS, AND SEALS
- 15075 MECHANICAL IDENTIFICATIONS
- 15080 MECHANICAL INSULATION
- 15100 PROCESS PIPING, VALVES, AND RELATED PRODUCTS
- 15130 PUMPS AND SPECIALTIES
- 15140 DOMESTIC WATER PIPING
- 15150 SANITARY WASTE AND VENT PIPING
- 15160 STORM DRAINAGE PIPING
- 15180 HEATING PIPING
- 15184 REFRIGERANT PIPING
- 15195 GAS PIPING
- 15213 LABORATORY AIR AND VACUUM PIPING
- 15214 COMPRESSED AIR SYSTEMS
- 15410 PLUMBING FIXTURES
- 15450 PLUMBING EQUIPMENT
- 15512 CAST-IRON BOILERS
- 15540 FUEL-FIRED HEATERS
- 15550 BREACHING, CHIMNEYS, AND STACKS
- 15720 AIR HANDLING UNITS
- 15736 PACKAGED ROOFTOP AIR CONDITIONING EQUIPMENT - SMALL CAPACITY
- 15737 PACKAGED ROOFTOP AIR CONDITIONING EQUIPMENT - MEDIUM CAPACITY
- 15739 SPLIT SYSTEM AIR CONDITIONING UNITS
- 15750 HUMIDITY CONTROL EQUIPMENT
- 15760 TERMINAL HEATING AND COOLING UNITS
- 15810 DUCTS
- 15820 DUCT ACCESSORIES
- 15830 FANS
- 15840 AIR TERMINAL UNITS
- 15850 AIR OUTLETS AND INLETS
- 15860 AIR CLEANING DEVICES
- 15905 HVAC INSTRUMENTATION
- 15910 DIRECT DIGITAL CONTROLS
- 15940 SEQUENCE OF OPERATION
- 15950 TESTING, ADJUSTING, AND BALANCING
- 15992 MECHANICAL COMMISSIONING

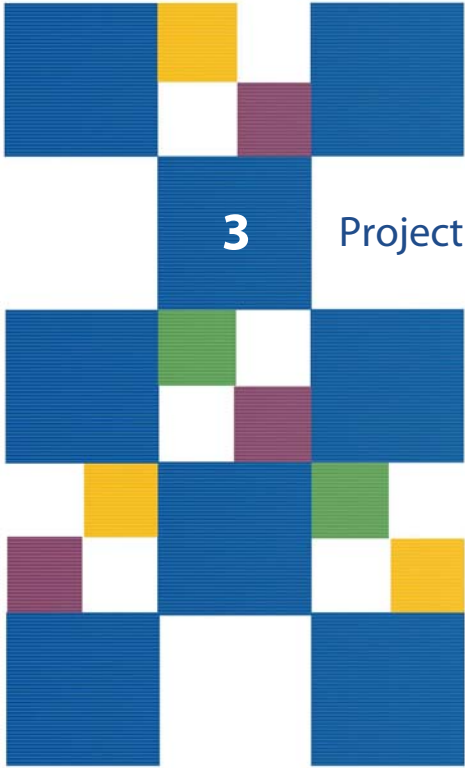


**DIVISION 16 – ELECTRICAL**

- 16010 GENERAL ELECTRICAL REQUIREMENTS
- 16050 BASIC MATERIALS AND METHODS
- 16110 RACEWAY SYSTEMS
- 16120 600 V WIRE AND CABLE
- 16123 MEDIUM VOLTAGE WIRE AND CABLE
- 16126 FIBER OPTIC CABLE AND ACCESSORIES
- 16130 BOXES
- 16140 WIRING DEVICES AND ACCESSORIES
- 16195 ELECTRICAL IDENTIFICATION
- 16320 MEDIUM VOLTAGE TRANSFORMERS
- 16426 DISTRIBUTION SWITCHGEAR
- 16345 MEDIUM VOLTAGE SWITCHGEAR
- 16371 WOOD POLE
- 16440 DISCONNECT SWITCHES
- 16450 GROUNDING
- 16460 LOW VOLTAGE TRANSFORMERS
- 16465 BUSWAYS
- 16470 PANELBOARDS
- 16475 OVERCURRENT PROTECTIVE DEVICES
- 16480 MOTOR CONTROL CENTERS
- 16481 MOTOR STARTERS
- 16487 VARIABLE FREQUENCY DRIVES
- 16500 LIGHTING
- 16600 TRANSIENT VOLTAGE SURGE SUPPRESSION EQUIPMENT
- 16670 LIGHTNING PROTECTION
- 16721 FIRE ALARM SYSTEMS
- 16744 DATA/PHONE CABLING SYSTEMS
- 16761 PAGING SYSTEMS

**ZEL SPECIFICATIONS**

- TZ7 VALVES
- TZ14 PUMPING EQUIPMENT



3

Project Execution



## 3 PROJECT EXECUTION PLAN

### 3.1 Contracting Strategy

#### 3.1.1 Request for Proposals

A bidding and contracting strategy was developed to not only encourage the local Augusta contracting community to participate in the project but also to provide work scopes that were enticing enough to bring regional municipal construction companies to Augusta to bid on our project.

Request for Proposals were developed to package the work into “general contractor packages” and “subcontractor packages”. Request for Proposals were developed to contract to Parsons the building scopes as “general contractor” packages. There are five areas (or structures/buildings) that are multi-disciplined in the project. These areas would be suited to a general contractor. These areas are the: New Filter Building, Old Filter Building, Ft. Gordon Pump Station (with the Auxiliary Pump Station included), the Flocculation/Sedimentation Basins, and the Clearwell Wall Improvements. Subcontractor scopes that are independent of the major buildings were prepared to contract as stand alone packages to specialty subcontractors. All of the scope of work is to be contracted by Parsons. Parsons will not self perform any of the work scopes. The Request for Proposal packages are as listed below:

RFP-1 New Filter Building	RFP-2 Ft. Gordon Pump Station
RFP-3 Flocculation/Sed. Basins	RFP-4 Old Filter Building
RFP-5 Traffic control	RFP-6 Site Electrical
RFP-7 I&C	RFP-8 Security
RFP-9 Yard Piping	RFP-10 Clearwell Wall Improvements
RFP-11 Site Demolition	RFP-12 Mass Excavation
RFP-13 Paving	RFP-14 Site Concrete
RFP-15 Miscellaneous Site Painting	RFP-16 Landscaping

The RFP's included work scope narratives, 100% plans and specifications, DBE goals, addenda, contract information, contractual flow down provisions, and proposal process and policy guidelines.

The Local/Minority/Women Owned Business participation goals were stressed to every bidder. The bids accepted were not only evaluated based upon price, but they were also evaluated on their ability to assist Parsons in meeting established L/M/WBE goals.

#### 3.1.2 Contractor Solicitation

Parsons performed a thorough and comprehensive search/solicitation of the Augusta contractor market in an effort to bring the local community to the project. This was completed via:

- Market Stimulation conference
- Advertisement of the project in local newspapers (per Augusta Procurement Guidelines)



- Development of a project information website
- Utilization of the Augusta Disadvantaged Business Enterprise Department's contractor database.
- Advertisement in Dodge Reports
- Advertisement in the Augusta Builders Exchange
- Advertisement in the Reed Construction Data Bulletin

Parsons developed a contractor contact database that was continually updated throughout the solicitation process. Our staff worked with the Augusta Disadvantaged Business Enterprise Department to continually update our database and to contact and engage all available local contractors who could potentially provide a service during the project.

Bidders were pre-qualified during the Solicitation Phase of the project and submitted their respective proposals for one or more of the sixteen (16) individual scopes of work packages. The criteria for pre-qualifying the contractors were based on: technical ability to perform the work (references were checked), financial stability (D&B reports), safety record (EMR).

Forty six individual contractors were pre-qualified to bid on at least one Request for Proposal. On July 25, 2006, Parsons received bids from 9 individual companies. Parsons received bids on 13 out of the 16 bid packages. The three bid packages that Parsons did not receive bids for on bid day were:

- RFP-5 Traffic control
- RFP-15 Miscellaneous Site Painting
- RFP-16 Landscaping

After bid day, Parsons continued our comprehensive search for qualified contractors to solicit quotations for these three packages. Parsons has been successful at obtaining quotations for RFP-5, and RFP-15 and has included this pricing in the GMP. Parsons is currently seeking additional quotations for RFP-16. All of these three packages will be performed utilizing 100% Local/Minority/Women owned businesses.

Parsons received bids from only one bidder on the following four packages. The bids were considered non-responsive due to the fact that the bidder qualified his bid as "all or nothing" and was not the apparent low bidder on his 5 other bids submitted. That left these 4 RFP's open:

- RFP-3 Flocculation/Sedimentation Basins
- RFP-4 Old Filter Building
- RFP-10 Clearwell Wall Improvements
- RFP-11 Site Demolition

Parsons has solicited and received pricing on these packages and has included this pricing in the GMP. Parsons is currently soliciting additional pricing for various components of the above scopes from the following members of the local contracting community in an effort to further increase our L/M/WBE participation:

Arctic Engineers & Constructors, LLC  
Contract Management, Inc.

Ben Chris and Associates  
Dexters Contracting



Dorsey Construction

Jericho Contracting Company

Vastec, Inc.

J & B Construction, Inc.

Kendrick Clearing and Hauling

### **3.1.3 Areas of Work**

The major areas of work scope are:

New Filter Building

Old Filter Building

Yard Piping

Instrumentation and Controls

Ft. Gordon Pumping Station

Flocculation sedimentation basins

Electrical power distribution

### **3.1.4 Apparent low bidders**

On the July 25, 2006 bid day, there was a potential to have 16 separate apparent low bidders for the 16 separate RFP's. The following listing comprises the apparent low bidders for each of the bid packages:

RFP 1- New Filter Building - Brasfield & Gorrie, Inc.

RFP 2- Ft. Gordon Pump Station - Brasfield & Gorrie, Inc.

RFP 3- Flocculation/Sedimentation Basins (Less conc. repairs) - Brasfield & Gorrie, Inc.

RFP 4- Old Filter Building - Brasfield & Gorrie, Inc.

RFP 5- Traffic Control – Hebbard Electric, Inc.

RFP 6- Site Electric – Hebbard Electric, Inc.

RFP 7- Instrumentation & Controls – Control Instruments, Inc. (C2i)

RFP 8- Security – Simplex Grinnell, Inc.

RFP 9- Yard Piping - Brasfield & Gorrie, Inc.

RFP 10- Clearwell Wall Improvements - Brasfield & Gorrie, Inc.

RFP 11- Site Demolition – Arctic Engineers and Constructors, LLC

RFP 12-Mass Excavation - Brasfield & Gorrie, Inc.

RFP 13- Paving – APAC – Southeast, Inc.

RFP 14- Site Concrete- Contract Management, Inc.

RFP 15- Miscellaneous Site Painting - Brasfield & Gorrie, Inc.

RFP 16- Landscaping – Currently pursuing contractors in the Augusta market

As stated above, Parsons is currently in pursuit of additional quotations from the local contracting community for components of RFP-3, 4, 10 and 11.



## 3.2 Organization/Management Strategy

### 3.2.1 Organization Chart

The proposed project organization required to manage the above referenced construction is depicted in the attached organization chart. This exhibit identifies all key managerial and technical positions for this project.

### 3.2.2 Staffing Plan and Strategy

The day to day management of all construction activities will be managed by a staff of dedicated full time employees. The staff from the Construction Manager and below will operate out of Augusta. The Project Manager, Client Service Manager, and Project Director will operate out of the Atlanta office. Support staff such as procurement, project controls, and scheduling is to be located in the Atlanta office.

The core staff currently assigned and their positions and roles:

Bobby Strickland, Project Director

- Client management, coordination of Community outreach with CSM, contract oversight, interaction and support of the Project Manager, and Business Development.

Darby Clay, Project Manager, Full Time, Norcross Office

- Overall responsibility for the project.

Teresa Crisp, Client Service Manager, Part Time, Norcross Office

- Client service. Overall responsibility for the Local/Minority/Women Owned business participation plan.

Jimmy Woods, Construction Manager, Full Time, On site

- Manage field staff. Responsible to ensure overall performance of subcontractors and delivery of all field activities.

Steve LaFavre, Safety Manager, Full Time, On site

- Oversee subcontractor compliance with safety programs.

Rod Hardeman, Scheduler, Part Time, Norcross Office

- Develop and maintain master schedule. Coordinate with subcontractors as it relates to their schedule updates.

QA/QC Manager, TBD, Full Time, On site

- Modify and update the current QA/QC program submitted during preconstruction contract. Manage the QA/QC program, coordinate/perform inspections.

Resident Engineer, TBD, Full Time, On site

- Manage subcontractor submittals, RFI's, perform QC inspections.

Civil/Mechanical Superintendent, TBD, Full Time, On site

- Responsible for civil and mechanical construction. Coordinate subcontractors. Perform inspections, ensure subcontractor compliance with contract documents.



### **3.2.3 Partnering**

Project partnering is the first activity we will undertake. This process is instrumental for developing an expanded team in a short time. The partnering process will include the following steps:

- Define the Vision.
- Clarify the Team Purpose.
- Define Responsibilities.
- Develop Team Operating Guidelines.
- Develop Interpersonal Behavior Guidelines.

Six partnering sessions have been budgeted for the project. Participants shall include representatives from: Augusta Utilities Department, Augusta Disadvantaged Business Enterprise Department, Augusta Procurement Department, HAWTP Supervisory Staff, CH2M Hill, Gannett Fleming and Parsons.

### **3.2.4 Community Participation Plan:**

The project includes a Community Participation Plan comprised of the following elements:

- Communication Plan
  - Public Meetings
  - Groundbreaking Ceremony
  - Public information flyers, doorhangers, bulletins
  - Presentations to community groups
  - High School educational involvement
  - Dedication Ceremony
- Project Information Website
- Local, Minority and Women Owned Business(L/M/WBE) Coordination

## **3.3 Project Safety Strategy**

### **3.3.1 Safety Manager**

A full-time Parsons Safety Manager will be assigned to the project and shall be present during all work activities to ensure compliance with Parsons Safety policies and procedures.

### **3.3.2 Safety Program**

Parsons Safety, Health and Risk Program (SHARP Management) will be implemented on this project. A project specific safety plan has been developed to manage the various phases of the project. This plan will be updated as part of this contract and reflect the project as contracted.





All subcontractors will also be required to follow the SHARP Management program which includes development of their own project safety plans and includes reporting of safety hours and compliance with Parsons' safety monitoring.

Parsons will strive to provide guidance and mentoring to all subcontractors to develop their safety plans and programs. Our corporate safety training modules will be made available to all subcontractors.

### **3.4 Project Controls Strategy**

#### **3.4.1 Scheduling:**

The Project Team, through the project scheduler, will prepare a complete master schedule for the entire project. The project will utilize Primavera P3e/c for scheduling, progress analysis, man loading, and cash loading. The project schedule will be maintained by the Parsons scheduler and will incorporate regular and incremental updates from the construction management staff and subcontractors.

Every subcontract will be required to produce a schedule for incorporation into the Master schedule. The project staff will evaluate the project progress and each subcontract schedule will be updated monthly. The information provided by the subcontractors will be used to update the Master schedule and identify schedule issues when all subcontractor schedules are integrated.

All subcontractors will be allowed free access to our internet based project schedule database that they may use to develop their schedules in Primavera P3e/c. This service will be provided to each subcontractor with assistance from the Parsons scheduling staff.

#### **3.4.2 Project Management Information System (PMIS):**

The Project will provide an integration of Primavera P3e/c scheduling software and Primavera Expedition. All project team members will be given access (with security provisions) to the Expedition Database. The Expedition program is a construction contractor administration tool that is used by Parsons as a corporate standard.

All subcontractors will be given free access to the project administration database. This approach will allow for mentoring in Construction Administration techniques using state of the art software.

### **3.5 Quality Controls Strategy**

#### **3.5.1 QA/QC Requirements**

The client has requested that Parsons provide a full time on site QA/QC manager that will report directly to the Project Manager to assure autonomy respective to quality assurance and control.

#### **3.5.2 Quality Management Processes and Activities**

PWI quality assurance and control procedures, as defined in the PWI Quality Manual will be used as a foundation for defining and executing quality management for the project.

The Project Manager (PM) has the overall responsibility for the development and implementation of the quality management process and activities for the project.

The PM is responsible for providing the necessary infrastructure, materials and technical information to the project team in order to obtain the required results. The PM also will



determine the necessary competence for Parsons personnel performing the management tasks affecting quality, provide necessary training and orientation, evaluate effectiveness of the training, and ensure that the team members are aware of the relevance and importance of their activities.

The results of audits and surveillance shall be documented and reported to Project Management. The Project Manager will develop corrective actions to eliminate any detected deficiencies found during the audit, or surveillance, and shall implement them to prevent recurrence. Follow-up audit, or surveillance, will be performed by the QA manager to verify implementation of corrective actions taken.

### **3.5.3 Construction Quality Control**

Parsons will implement a system of controls to monitor contractors for construction activities and ensure that work is in compliance with requirements. This will include key elements including review of submittals, receipt, storage, and handling of materials and items, their installation, inspection and testing, and facility turn-over. A three-phase inspection system (Preparatory, Initial, Follow-up and Final Inspection) will be implemented for major work activities. Contractors will be required to submit Inspection and Test Plans (ITP) to identify the type of inspection or test, acceptance criteria, specification references, frequency of inspection, and report format for construction and installation. The project team will identify "Hold" and "Witness" points in the ITP for work activities or tests. Work will not be allowed to proceed unless the required inspection or witnessing is completed or waived. When warranted, the project team will conduct independent verification of test results. The Team will verify that contractor personnel are trained, qualified, and certified, as required; procedures, plans, or checklists, are available for major work activities; and calibrated measuring and test equipment (M&TE) are utilized. The project team will ensure that the contractor is implementing a process for the identification, disposition, correction, and verification of non-conforming items or activities. The project team will document monitoring activities through daily reports, submittal review logs, surveillance, non-conformance reports, or other documents.

Through the Parsons on site QA/QC representative, subcontractors will be guided through a unique Quality Assurance/Quality Control program geared towards continuing improvement of the subcontractor's processes and procedures.

## **3.6 Project Startup**

### **3.6.1 Start-up, Close-Out, and Transfer:**

Parsons will develop a Start-up, Close-Out, and Transfer Plan for each work package. Our plan details all equipment or subsystem start-ups, process start-ups, sequencing schedules, and the activities and designated responsible parties for coordination with the operating components. Parsons will work with the Augusta Utilities Department towards substantial completion acceptance and beneficial occupancy. Parsons will provide (through our subcontractors) an O&M manual for all equipment, controls, and structures incorporated into the facility in both hardcopy and electronic media. Parsons will employ a full time Startup Manager to develop all startup and testing plans. The Startup Manager will implement and coordinate all startup activities between the Subcontractors, Engineers, Program Managers, and Client personnel.

# Augusta Utilities Department

CH2M HILL

Gannett-Fleming

**CSM**

*Teresa Crisp*

**Public Involvement  
LMWBE Compliance**

**Project Director**  
*Bobby Strickland*

**Project Manager**  
*Darby Clay*

**QA/QC Manager**

*TBD*

**Safety Officer**

*Steve Lafave*

**Project Controls:** *Dean Miller*  
**Cost Accounting:** *Walt Marchant*  
**Procurement/ Contracts:** *Dima Gaisner*

**Admin.  
Assistant**  
*Ann Woods*

**Construction  
Manager/Inspector**  
*Jimmy Woods*

**Start-Up Manager**

*TBD*

**Resident Engineer  
/Inspector**

**Civil-Mech  
Superintendent/  
Inspector**

**Electrical  
Superintendent/  
Inspector**

**Scheduling/  
Document Control**  
*Rod Hardeman*

Key:  = Parsons Staff

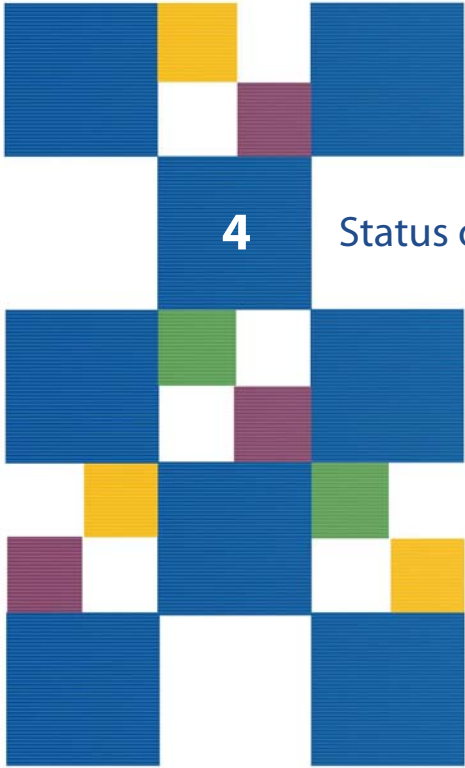
**PWI-Estimate Worksheet**

JOB NO.: 260178  
 PROJECT: HAWTP  
 CLIENT: Augusta Utilities Department

**Parsons General Conditions**

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09
CM Management Labor and ODC's																																	
Project Director (Bob Ainslie) 1 day per week	31	MO	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
CSM (Teresa Crisp) 1 day per week(incl MBE/PA)	31	MO	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Project Manager (Darby Clay) Full time	31	MO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Estimating	31	MO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Project Controls	31	MO	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Contract Administer/Procurement	31	MO	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Scheduler /document Control	31	MO	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Const. Manager Full time	31	MO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Secretarial/Clerical Full time	31	MO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Resident Engineer-Mechanical	31	MO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Safety Officer Full Time	25	MO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0						
Mechanical Superintendent	25	MO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0						
Electrical/I&C Superintendent	31	MO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
QA Manager full time	31	MO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Start up manager	10	mo																					1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	

	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09
All	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	9.43	10.43	10.43	10.43	10.43	10.43	8.43	8.43	8.43	8.43	8.43
Field FTE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	6	6	6	6	6	



4

Status of L/M/WBE Participation



## 4 Status of Local and/or Minority Participation Goal

Parsons presented to Augusta a local / minority participation goal of 35% for our Construction Management at Risk Services for the Highland Avenue Water Treatment Plan Expansion Project. This was the first large project within Augusta with such a goal. Parsons understands the importance of providing opportunities to local businesses allowing Augusta to keep work within Augusta Richmond County. We also believe it is important to include small disadvantaged businesses offering them experiences that will help them strengthen their companies. Parsons has a proven track record of partnering with small companies and we look forward to a successful project here in Augusta.

Parsons is pleased to present our anticipated local / minority participation as 39% for our total contracted value and this will be accomplished by utilizing more than 46 local businesses within Augusta-Richmond County.

### *Background*

This project has three phases: Preconstruction, Construction Phase I (Winter Work Package) and Construction Phase II (complete construction). There are two ways a contractor would be involved in this project; (1) by contracting directly to Parsons on one of the major bid packages or (2) subcontracting with someone who is bidding directly to Parsons on one of the major bid packages. Parsons conducted a prequalification evaluation on anyone who would bid directly to Parsons. Our qualification process approved by Augusta consisted of the following elements: safety, company experience, and company financial record. Parsons has the responsibility to ensure that all contractors on site are qualified to perform the work and that they have a strong safety record / program.

During the preconstruction phase, Parsons organized the construction project into individual work packages allowing more involvement from local and /or minority contractors and to provide AUD with a cost-effective project. Parsons worked extensively to reach out to the local and /or minority business community to present them with potential opportunities to participate in this project. This included the following items:

- Partnership with Augusta Procurement and Augusta DBE office: Parsons worked with Procurement and the DBE office to identify potential contractors and coordinate communication with the contractors. This coordination included invitation lists to such things as the bidders conference or project job fair.
- Additional Partnership with Augusta DBE: Parsons partnered with the DBE office to ensure communication and that Parsons contacted all of the interested potential bidders. The DBE office made countless phone calls and attended numerous meetings presenting the opportunities to contractors and discussing various requirements. Parsons attended many of these meetings and followed up via email or phone call. Parsons and the DBE office have coordinated virtually on a daily basis over the past 2 -3 months.
- Bidders Conference: Parsons presented the scope of services and introduced companies to the major general contractors who were bidding the large work packages.
- Letters, Emails and Phone Calls: Parsons set up a toll free number to facilitate communication with contractors. We had extensive communication with the local business community regarding project opportunities
- Prequalification process: Parsons conducted the prequalification process on any contractor who would bid directly to Parsons. During this process, we assisted with completing the forms



and provided any person identified as a potential subcontractor with the list of contractors who would be bidding directly to us. This allowed the opportunity to seek teaming arrangements.

- Newspaper ads: Parsons submitted ads in the local newspapers according to the Augusta Procurement policies.
- Addendum to the RFP: Parsons issued an addendum to all of our RFPs re-iterating the importance of local and minority contractors. This addendum included a letter from the Parsons Project Manager and the list of contractors / vendors as provided by the Augusta DBE office.
- Published List of Qualified Bidders: Parsons published the list of companies qualified to bid directly to us. We published this list on the internet, at Augusta Blue, and by email to several interested subcontractors.

**Results**

The results of these efforts are summarized below and detailed in the attached table.

Category	Total Work Value	Percentage
Total Local	\$22,267,890	34%
Total Minority	\$8,748,708	13%
Local Minority	\$5,455,565	8%
Female Local	\$107,550	0.2%
Total Local and/or Minority	\$25,711,033	39%

The services we plan to obtain from local and/or minority contractors/vendors include the following:

- |                        |                        |                         |
|------------------------|------------------------|-------------------------|
| CM Support (inspector) | Demolition             | Drywall/Ceilings        |
| Photography            | Trucking and Hauling   | Hard Tile/Soft Flooring |
| Printing               | Crushed Stone Material | Painting/Coating        |
| Name Badges            | Curb and Gutter        | Residential Equipment   |
| Drug Testing           | Ornamental Fencing     | Supply of Ductile Iron  |
| Caterer Services       | Landscaping            | Supply of Pipe          |
| Janitorial             | Grassing/Jute Netting  | Fire Protection         |
| Surveying              | Reinforcing Material   | Concrete Repairs        |
| Layout Supplies        | Concrete Material      | Plumbing/HVAC           |
| Dumpster Rental        | Masonry                | Electrical/I&C          |
| Toilets/Holding Tanks  | Roofing                | Security                |
| Office Supplies        | Doors/Frames/Hardware  | Traffic Control         |
| Fuel and Lube          | Overhead Doors         | Paving                  |
| Concrete Pumping       | Glass/Glazing          | Site Concrete           |
| Crane Rental           | Metal Studs            |                         |



### ***Path Forward***

Parsons has developed a strong, qualified team that will allow us to meet several objectives including quality work for Augusta, safe work environment, and keeping a large portion of the work in Augusta allowing opportunities for local and/or minority contractors to grow their businesses. Communication will be key to successfully completing this project and satisfying the goals established. Parsons will host a Partnering Session prior to breaking ground on Phase II. That session will outline safety requirements and other work related policies such as communication.



**Parsons Proposed Local and/or Minority Participation**

**HAWTP Expansion Project**

**Augusta Project 20100**

Last updated: 9/2/2006

Division	Item / Description	Company Name	LOCAL				Outside Augusta Richmond County	
			Local (non-DBE) (\$)	Local Registered DBE (majority owned) (\$)	Local Minority Owned (\$)	Local Woman Owned (\$)	Minority Owned (\$)	Woman Owned (\$)
<b>Directly Contracted to Parsons</b>								
01	CM Support	WRJ Aje Khafra					x	
01	Photography	Christian Studios				x		
01	Printing	Augusta Blue			x			
01	Badging	Allegra			x			
01	Drug Testing Costs	Analyze America Labs, Inc			x			
01	Janitorial / Cleaning / Caterer	Café 209, Bon Appetit, CSRA Custodial Services Executive Janitorial Services F&H Commercial Cleaning Services			x			
01	Invitations / Door hangers	Brown and Pipkins Helen Blocker-Adams (HBA)			x			
<b>Subcontract to Brasfield and Gorrie</b>								
02	Professional Surveyor Services	CSRA, Harmon, Tony Carr Bobby Harrington, Toole, CRW			x			
02	Layout Supplies	Augusta Blue LJ Henry			x			
01	Dumpster Rental / Landfill Charges	Blade Hauling Coleman (MBE) Augusta Disposable Abrams Sanitation A1 sanitation			x	x		
01	Temporary Water Lines	Universal Plumbing			x			
01	Telephone Toll Charges	Local Phone Company	x					
01	Temporary Toilets / Holding Tanks	Portable Services, Inc.	x					
01	Drug Testing Costs	Analyze America Labs, Inc			x			
01	Office Supplies / Equipment	Brown Office Supplies Carter Blanchard Office	x		x			
14	Fuel & Lube	Local minority to be named	x					
03	Concrete Pumping	Ashmore Concrete	x					
14	Hourly Crane Rental	Phoenix Crane Rental	x					
02	Clearwell Demolition	Thompson Building & Wrecking	x					
02	Trucking & Hauling	Blade Hauling; Tucker Grading & Hauling; Kendrick Clearing & Trucking; Docher Trucking	x		x	x		
02	Crushed Stone Material	Rinker Materials	x					
05	Ornamental Fencing	Boyd Fence	x					

**Parsons Proposed Local and/or Minority Participation**

**HAWTP Expansion Project**

**Augusta Project 20100**

Last updated: 9/2/2006

Division	Item / Description	Company Name	LOCAL				Outside Augusta Richmond County	
			Local (non-DBE) (\$)	Local Registered DBE (majority owned) (\$)	Local Minority Owned (\$)	Local Woman Owned (\$)	Minority Owned (\$)	Woman Owned (\$)
02	Mockingbird Village Landscape &	CSRA Landscaping, CMI We'll Clean It, Godly Lawn	x		x			
02	Mockingbird Village Pond	CSRA Landscaping, CMI We'll Clean It, Godly Lawn	x		x			
02	Grassing & Jute Netting	Local minority to be named			x			
03	Concrete Materials	Augusta Ready Mix	x					
04	Masonry	Richard Ingram Masonry	x					
06	Rough Carpentry Materials	A&D			x			
06	Millwork & Sills	Carolina Woodcrafters	x					
05	Metal Roofing	Thomson Roofing	x					
08	Doors / Frames / Hardware	Builder's Hardware and Triad Specialties	x					
08	Overhead Doors	Overhead Door Company	x					
08	Glass & Glazing	Glass Service Center	x					
09	Cement Plaster	Williamson Stone & Stucco	x					
09	Metal Studs / Drywall / Ceilings	Interior & Exterior Assoc.	x					
09	Hard Tile / Soft Flooring	The Carpet Shop	x					
09	Painting & Coatings	Llamas	x				x	
01	Residential Equipment	A&D			x			
15	Ductile Iron Pipe	Frankie Thompson			x			
03	Precast Structures	N/A						
10	Fire Protection	Augusta Fire Protection	x					
03	Concrete Repairs	TopCor	x					
15	Plumbing / HVAC	Menk	x					
16	Electrical	Hebbard Electrical	x					
<b>Contract with Hebbard Electrical</b>								
16	Site Electrical	Hebbard Electrical	x					
01	Security	Automation and Security		x				
01	Traffic Control	B/E or Hebbard	x					
<b>Contract with C2I</b>								
13	I&C	Process Control Systems						x
<b>Contract with Arctic Constructors</b>								
02	Site Demolition	Arctic Constructors			x			
<b>Contract with APAC</b>								
02	Paving	APAC	x					
<b>Contract with Contract Management Inc.</b>								
03	Site Concrete	Contract Management Inc			x			
<b>Contract with Llamas</b>								
09	Misc Site Painting	Llamas					x	

**Parsons Proposed Local and/or Minority Participation  
HAWTP Expansion Project  
Augusta Project 20100**

Last updated: 9/2/2006

Division	Item / Description	Company Name	LOCAL				Outside Augusta Richmond County	
			Local (non-DBE) (\$)	Local Registered DBE (majority owned) (\$)	Local Minority Owned (\$)	Local Woman Owned (\$)	Minority Owned (\$)	Woman Owned (\$)
<b>Contract with local minority</b>								
02	Landscaping	CSRA Landscaping We'll Clean It Godly Lawn Care CMI			x			
<b>Total Dollar Amount of Phase II</b>		<b>\$63,521,523</b>	<b>\$16,555,775</b>	<b>\$149,000</b>	<b>\$5,455,565</b>	<b>\$107,550</b>	<b>\$1,661,143</b>	<b>\$150,000</b>
<b>% of Total Parsons Contracted Value (Phase II)</b>		<b>\$63,521,523</b>	<b>25.76%</b>	<b>0.23%</b>	<b>8.49%</b>	<b>0.17%</b>	<b>2.58%</b>	<b>0.23%</b>

Total Cost		
Total Local	\$22,267,890	34%
Total Minority	\$8,748,708	13%
Local Minority	\$5,455,565	8%
Female Local	\$107,550	0.2%
Total Contracted Value	\$66,398,523	
<b>Total Local and or Minority</b>	<b>\$25,711,033</b>	<b>39%</b>



# HIGHLAND AVENUE WATER TREATMENT PLANT

## GUARANTEED MAXIMUM PRICE COST BREAKDOWN

Bid Prices and Cost Estimates		
Package	Apparent Low Bidder	Gross Bid
Bid Package 01 - New Filter Building	Brasfield & Gorrie	\$ 28,889,655
Bid Package 02 - UV/Ft. Gordon/Aux. Pump Sta.	Brasfield & Gorrie	\$ 3,450,000
Bid Package 03 - Flocculation/Sedimentation Basins	Brasfield & Gorrie	\$ 1,667,760
Bid Package 04 - Old Filter Building	Brasfield & Gorrie	\$ 2,515,905
Bid Package 05 - Traffic Control	Hebbard Electric	\$ 357,329
Bid Package 06 - Site Electrical	Hebbard Electric	\$ 2,350,876
Bid Package 07 - Instrumentation	C2I	\$ 2,437,701
Bid Package 08 - Security	Simplex Grinnell	\$ 413,376
Bid Package 09 - Yard Piping	Brasfield & Gorrie	\$ 3,462,064
Bid Package 10 - Clearwell Wall Improvements	Moved to Allowances	\$ -
Bid Package 11 - Site Demolition	Arctic	\$ 220,000
Bid Package 12 - Mass Excavation	Brasfield & Gorrie	\$ 310,000
Bid Package 13 - Site Paving	APAC	\$ 670,654
Bid Package 14 - Site Concrete	CMI	\$ 109,800
Bid Package 15 - Misc. Site Painting	Estimate	\$ -
Bid Package 16 - Landscaping	Estimate	\$ 119,819
<b>Total Subcontractor Cost</b>		<b>\$ 46,974,939</b>

Allowances	
Laboratory Analytical Equipment	\$ 260,000
Maintenance Shop Equipment	\$ 65,000
Office Equipment	\$ 80,000
Kitchen Appliance & Supplies	\$ 10,000
SCADA Computers	\$ 60,000
Landscaping - Irrigation system	\$ 300,000
Historical Displays - Old Filter Building	\$ 250,000
Clearwell Wall Improvements	\$ 1,100,000
<b>Total Allowances</b>	<b>\$ 2,125,000</b>

**Subtotal Bid Packages and Allowances** \$ **49,099,939**

Parsons General Conditions	\$ 7,924,016
Parsons Contingency	\$ 2,100,000
Parsons Fee	\$ 3,134,943
Parsons Bonds & Insurance	\$ 1,245,178
Local Taxes	\$ 17,447

**TOTAL PARSONS GMP** \$ **63,521,523**

Owner Furnished Equipment- To be installed under the Guaranteed Maximum Price above	
On-Site Sodium Hypochlorite Generation System	\$ 1,237,000
Transformers & Switchgear	\$ 958,455
New Filters	\$ 840,083
Existing Filters	\$ 211,417
Vertical Turbine Pumps	\$ 858,952
Motor Operated Valves	\$ 592,413
Manual Butterfly Valves	\$ 235,463
<b>Total Owner Furnished Equipment</b>	<b>\$ 4,933,783</b>

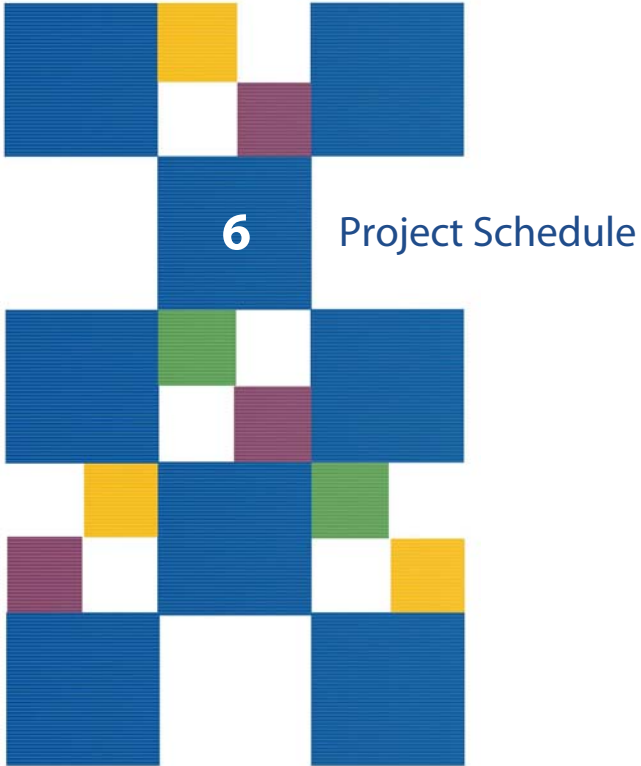
**PWI-Estimate Worksheet**

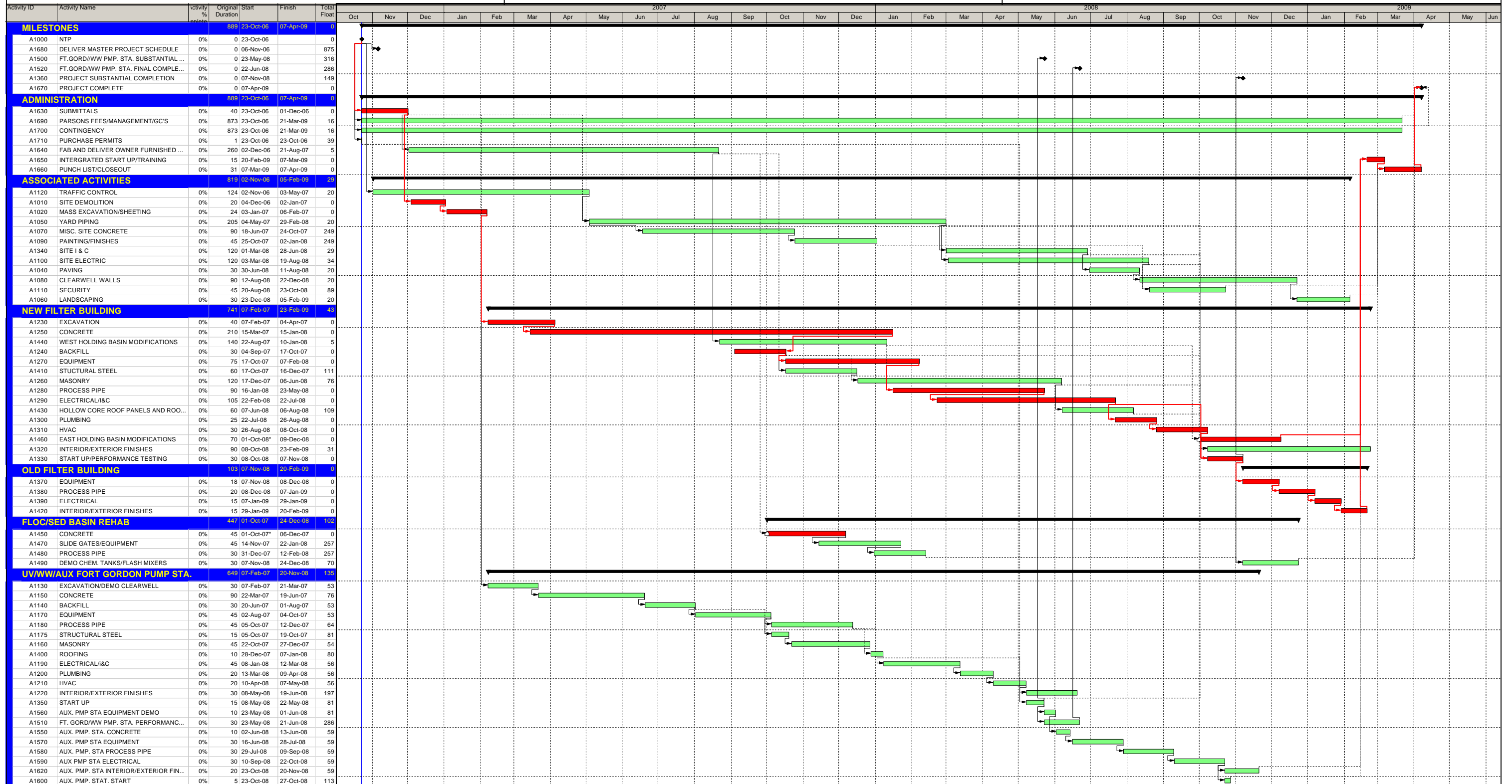
**JOB NO.:** 260178  
**PROJECT:** HAWTP  
**CLIENT:** Augusta Utilities Department

DWG/REF & MEANS CODE	LOCATION & DESCRIPTION	MATERIAL/ OTHER	LABOR	EQUIPMENT	SUB	TOTAL
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**0 Parsons General Conditions**

	<b>CM Management Labor and ODC's</b>					
	<b>Subtotal</b>	<b>583,440</b>	<b>4,719,738</b>	<b>-</b>	<b>10,000</b>	<b>5,313,178</b>
	<b>Quality Program</b>					
	<b>Subtotal</b>	<b>40,000</b>	<b>581,798</b>	<b>-</b>	<b>-</b>	<b>621,798</b>
	<b>Safety</b>					
	<b>Subtotal</b>	<b>157,350</b>	<b>541,701</b>	<b>-</b>	<b>-</b>	<b>699,051</b>
	<b>Partnering</b>					
	<b>Subtotal</b>	<b>30,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>30,000</b>
	<b>Site Facilities and Support</b>					
	<b>Subtotal</b>	<b>960,920</b>	<b>-</b>	<b>-</b>	<b>262,635</b>	<b>1,223,555</b>
	<b>Permits</b>					
	<b>Subtotal</b>	<b>36,434</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>36,434</b>
	<b>GRAND TOTAL</b>	<b>1,808,144</b>	<b>5,843,237</b>	<b>0</b>	<b>272,635</b>	<b>7,924,016</b>





**AUGUSTA UTILITIES DEPARTMENT -  
HIGHLAND AVENUE WTP**

**PARSONS CORPORATION**

- Actual Work
- Remaining Work
- Critical Remaining Work
- Summary
- Start Constraint
- Milestone

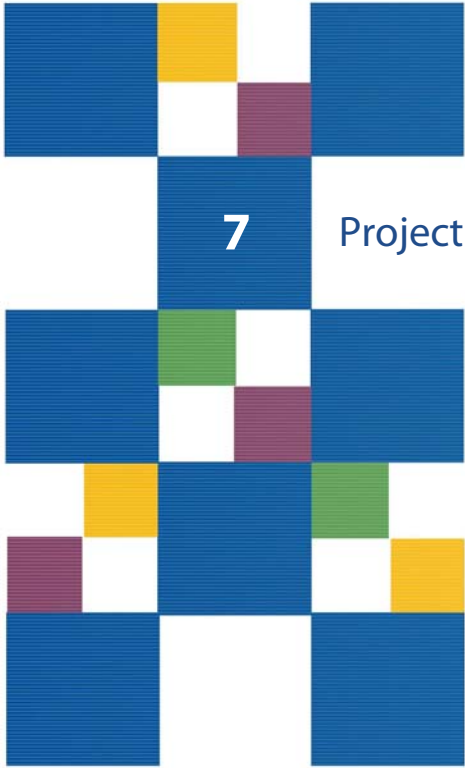




## Project Schedule Milestones

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1. Notice to Proceed	Oct. 23, 2006
2. Mobilization	Oct. 30, 2006
3. Close Central Avenue	Nov. 1, 2006
4. Delivery of Owner Furnished Equip. Complete	Aug. 21, 2007
5. Flocculation/Sedimentation Basins Complete	Feb. 12, 2008
6. Ft. Gordon Pump Station Substantial Completion	May 23, 2008
7. Auxiliary Pump Station Start-up	Oct. 23, 2008
8. New Filter Building Performance Test Completion	Nov. 7, 2008
9. New Filter Building Substantial Completion	Nov. 7, 2008
10. Old Filter Building Substantial Completion	Feb. 20, 2009
11. Re-open Central Avenue	Mar. 31, 2009
12. Final Project Completion	Apr. 7, 2009



7

Project Labor Rates



## Labor Rates

<u>Employee Classification</u>	<u>Billing Rate</u>
Vice President	\$ 219
Project Director	\$ 193
Principal Engineer / Professional	\$ 183
Corporate Safety	\$ 170
Project Manager	\$ 151
Construction Manager	\$ 144
Project Scheduler	\$ 139
Startup Manager	\$ 138
Senior Engineer	\$ 132
Procurement / Contracts	\$ 123
Project Controls	\$ 122
Safety Officer	\$ 120
Engineer	\$ 110
QA/QC Manager	\$ 108
Electrical Superintendent / Inspector	\$ 108
Civil - Mechanical Superintendent / Inspector	\$ 108
Resident Engineer / Inspector	\$ 108
Cost Accounting	\$ 105
Senior Designer	\$ 93
Associate Engineer	\$ 88
Technician / Designer	\$ 78
Administrative Assistant	\$ 68
Administrator / Accounts Payable / Receivables	\$ 62
Clerical	\$ 53

- 1) All Parsons General Conditions Rates are to be developed based upon direct salary times a 2.5 multiplier.



## 8 Insurance Coverage



## Highland Avenue Water Treatment Plant Insurance

### 1. INSURANCE POLICIES AND COVERAGE

- 1.1 Subject to Article 7 of the General Terms and Conditions, and as additionally defined in Supplemental General Conditions, page SGC-1, Construction Manager at Risk (CMAR) or any of CMAR's lower tier consultants or subcontractors shall procure and maintain the insurance types and coverage set forth below from an insurance company with an A+ rating and authorized to conduct business in the State of Georgia.

Type	Coverage
Commercial General Liability	\$ 2,000,000 General Aggregate \$ 1,000,000 Each Occurrence
Automotive Liability	\$ 1,000,000 Combined Single Limit
Workers Compensation	\$ Statutory Limits
Employer's Liability	\$ 1,000,000 Each Accident \$ 1,000,000 Disease – Policy Limit \$ 1,000,000 Disease – Each Employee
Personal and Adv. Injury	\$ 1,000,000
Products	\$ 2,000,000
Excess Liability (Umbrella)	\$ 5,000,000 Each Occurrence

### 2. BUILDER'S RISK INSURANCE

- 2.1 CMAR shall purchase and maintain builder's risk property insurance upon the project work for the full cost of replacement as of the time of any loss. This insurance shall insure against loss from the perils commonly known in the insurance industry as "All Risks" of physical loss or damage, including any loss attributable to an earthquake, flood, testing, boiler & machinery perils, electrical injury and mechanical breakdown, and resultant damage from faulty workmanship. Coverage shall include all materials, supplies, and equipment that are intended for specific installation in the project while such materials, supplies and equipment are located at the project site, in transit or while temporarily located away from the project site. The Builder's Risk policy shall name owner, and sub-contractors at all tiers as additional insured.



2.2 The policy shall contain no sub-limits less than those indicated below:

Property at Temporary Off Site Locations	\$ 1,000,000
Property in Transit	\$ 1,000,000
Debris Removal	\$ 1,000,000
Pollutant Cleanup & Removal	\$ 1,000,000
Testing	\$ 1,000,000
Operation of Building Codes	\$ 1,000,000
Delayed Opening-Loss of Earnings	\$ 5,000,000
Earthquake	\$ 1,000,000
Flood	\$ 1,000,000

CMAR and Owner mutually waive all rights against each other, any subcontractors, for any loss of damage caused by fires or other perils to the extent covered by Builder's Risk insurance obtained pursuant to this section or other property insurance applicable to the Project. The deductible (\$ 100,000) is the responsibility of CMAR and has been included in the Guaranteed Maximum Price (GMP) in the Project Contingency.

2.3 Any lower tiered subcontractor shall be required to carry appropriate insurance including maritime, as appropriate to work scope.

**RFQ 05-067**  
**Construction Management @ Risk - HAWTP Improvements**  
**Augusta Utilities**  
**RFQ Open: Friday, February 11, 2005 @ 11:00 a.m.**

<b>Vendor</b>	<b>Original</b>	<b>Six (6) Copies</b>	<b>Addendums 1 &amp; 2</b>
Earth Tech Inc.			
Khafra Engineering			
HBOL Architects			
Arcadis	Yes	5 copies	
Frankie Thompson Enterprises			
Parsons	Yes	Yes	Yes
Western Summit Constructors			
T3 Design Associates			
EDC			
MWH	Yes	Yes	Yes
OLH International			
Pizzagalli Contractors	Yes	Yes	Yes

# Request for Qualifications

RFQ's will be received at this office until 11:00 a.m., Friday, February 11, 2005

RFQ #05-067                      Construction Management at Risk – HAWTP Improvements for Augusta Utilities

RFQ's will be received by Augusta, GA Commission hereinafter referred to as the OWNER at the offices of:

Geri A. Sams  
Purchasing Department  
530 Greene Street - Room 605  
Augusta, Georgia 30911  
706-821-2422

RFQ documents may be obtained at the office of the Augusta, GA Purchasing Department, 530 Greene Street – Room 605, Augusta, GA 30911. The proposed facilities are detailed in the existing 90% plans and specifications for the project, a copy of which can be made available upon request to the Augusta Purchasing Department along with payment of a fee. The fees for the plans and specifications are as follows:

Full sized set plans	\$400.00
Half sized set of plans	\$230.00
Specifications (4 volume set)	\$400.00

Documents may be examined during regular business hours at the offices of Augusta, GA Purchasing Department, Augusta Builders Exchange, 1262 Merry Street, Augusta, GA 30901; F. W. Dodge Plan Room, 1281 Broad Street, Augusta, GA 30901. It is the wish of the Owner that all businesses are given the opportunity to submit on this project. To facilitate this policy, the Owner is providing the opportunity to view plans online ([www.augustablue.com](http://www.augustablue.com)) at no charge through Augusta Blueprint (706-722-6488) beginning Monday, January 10, 2005. Bidders are cautioned that submitting a package without review or purchasing of a complete set are likely to overlook issues of construction phasing, delivery of goods or services, or coordination with other work that is material to the successful completion of the project. Bidders are cautioned that sequestration of documents through any other source is not advisable.

Acquisition of documents from unauthorized sources places the bidder at the risk of receiving incomplete or inaccurate information upon which to base his qualifications.

All questions must be submitted in writing to the office of the Purchasing Department by fax at 706-821-2811 or by mail. A Mandatory Pre-Qualification meeting will be held on Tuesday, January 25, 2005 @ 10:00 a.m. The last day to submit questions is Friday, January 28, 2005 by 3:00 p.m. No RFQ will be accepted by fax, all must be received by mail or hand delivered.

It is the wish of the Owner that minority businesses are given the opportunity to submit on the various parts of the work. This desire on the part of the Owner is not intended to restrict or limit competitive bidding or to increase the cost of the work. The Owner supports a healthy free market system that seeks to include responsible businesses and provide ample opportunity for business growth and development.

No RFQ may be withdrawn for a period of 60 days after time has been called on the date of opening.

The Owner reserves the right to reject any or all RFQ's and to waive technicalities and informalities. Please mark RFQ number on the outside of the envelope.

Bidders will please note that the number of copies requested; all supporting documents including financial statements and references and such other attachments that may be required by the Request of Qualification are material conditions of the package. Any package found incomplete or submitted late shall be rejected by the Purchasing Office. Any bidder allegedly contending that he/she has been improperly disqualified from bidding due to an incomplete bid submission shall have the right to appeal to the appropriate committee of the Augusta Commission. Please mark RFQ number on the outside of the envelope.

Bidders are cautioned that sequestration of RFQ documents through any source other than the office of the Purchasing Department is not advisable. Acquisition of RFQ documents from unauthorized sources places the bidder at the risk of receiving incomplete or inaccurate information upon which to base his qualifications.

Augusta has a Link Deposit program designed to provide loans to eligible local Small, Minority and Women Owned Businesses. For more information about this program contact the Human Resources Department at 706-821-2303.

GERI A. SAMS, Purchasing Director

Publish:

Augusta Chronicle	December 30, January 6, 13, 20, 2005
Augusta Focus	January 6, 2005

cc:	Tameka Allen	Interim Deputy Administrator
	Yvonne Gentry	DBE Coordinator
	Max Hicks	Utilities Department
	Drew Goins	Utilities Department



# FAX TRANSMISSION

AUGUSTA-RICHMOND COUNTY CONSOLIDATED GOVERNMENT

530 Greene Street - Room 605

Augusta, Georgia 30911

706 821-2422

Fax: 706 821-2811

**To:** Southeastern Newspaper                      **Date:** December 23, 2004  
**Fax #:** 706 823-3588                                **Pages:** 2, including this cover sheet.  
**From:** Geri A. Sams  
**Subject:** LEGAL NOTICES FOR RFQ ITEM: #05-067

## COMMENTS:

Please print the above RFQ Item(s) on the following dates:

December 30, 2004, January 6, 13, 20, 2005

REQUISITION #43635A

Please send an affidavit of publication.

# CORRECTION

# FAX TRANSMISSION

AUGUSTA-RICHMOND COUNTY CONSOLIDATED GOVERNMENT

530 Greene Street - Room 605

Augusta, Georgia 30911

706 821-2422

Fax: 706 821-2811

**To:** Augusta Focus

**Date:**

December 23, 2004

**Fax #:** 706 724-8432

**Pages:**

2, including this cover sheet.

**From:** Geri A. Sams

**Subject:** LEGAL NOTICES FOR RFQ ITEM: #05-067

## COMMENTS:

Please print the above RFQ Item(s) on the following dates:

January 6, 2005

REQUISITION #43635B

Please send an affidavit of publication.

# CORRECTION



**Engineering Services Committee Meeting  
9/11/2006 1:30 PM  
Proposed 2007 LARP LIST**

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<b>Department:</b>	Public Services Department-Maintenance Division
<b>Caption:</b>	Approve the list of streets proposed for submittal to the Georgia Department of Transportation for inclusion in 2007 LARP.
<b>Background:</b>	In accordance with Georgia Department of Transportation Commissioner Harold Linnenkohl's letter dated July 19, 2006, we have prepared a list of roads as candidates for the 2007 LARP. The list is being sent to the Augusta Utilities and Engineering Departments for review, and is subject to minor revision based on their input on ongoing projects.
<b>Analysis:</b>	The Georgia Department of Transportation will review these roads and make a final determination as to which roads will be resurfaced, based on needs.
<b>Financial Impact:</b>	The resurfacing will be let to bid by the Georgia Department of Transportation. Any required patching and/or milling will be the responsibility of the City of Augusta. The resurfacing costs will be borne by the Georgia Department of Transportation. Any required patching will be done by the Maintenance Division of the Public Services Department.
<b>Alternatives:</b>	None Recommended
<b>Recommendation:</b>	Approve the list of streets proposed for submittal to the Georgia Department of Transportation for inclusion in 2007 LARP.
<b>Funds are Available in the Following Accounts:</b>	N/A

**REVIEWED AND APPROVED BY:**

**Finance.  
Administrator.  
Clerk of Commission**

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# RESURFACING WORKSHEET

## LARP 2007

STREET NAME	TERMINI	CONDITION	DISTRICT	WIDTH	LENGTH (FEET)	TONNAGE
TAYLOR ST	4TH ST.-GORDON HWY	21	1	25	565	132
SPRUCE ST	J. BROWN BLVD - SPRUCE ST	23	1	20	1394	261
SUMMER ST	L. WALKER BLVD - SPRUCE ST	23	1	27	1378	349
REYNOLDS ST	R.R.AT BAY ST-13TH ST	20	1	53	5655	2809
HOLLEY ST	WRIGHTSBORO RD - R.A. DENT BLVD	20	2	29	1251	340
HOLLOWAY DR.	GORDON HWY-ALABAMA RD.	18	2	24	850	191
RICHMOND HILL RD WEST	DEANS BRIDGE RD - RICHMOND HILL RD	19	2	25	2498	585
FULLER ST.EXT	MLK JR.BLVD-STEINER AVE	20	2	25	792	186
NIXON ROAD	O. SAV.RD.-D. BARNARD PKWY	23	2 & 1	19	4979	887
ROULETTE LN	AUGUSTA AVE-MCCAULEY ST	22	2 & 5	16	1436	215
OLD SAVANNAH RD.	GORDON HWY-MIKE PADGETT HWY	20	2	29	4256	1157
OVERLOOK RD.	RICHMOND HILL RD.- CUL DE SAC	19	2	32.32	1985	602
EIDSON DR	BARTON CHAPLE RD - DEAD END	21	3	20	1558	292
MABUS DR	BRIDGEPORT DR - CUL DE SAC	19	3	27	1864	472
CHAUCER DR	HILLCREEK DR S - CUL DE SAC	17	3	20	1172	220
GARREDD BLVD	J. DEWEY GRAY CIR - DEAD END	20	3	33	1014	314
CLARENDON CT.	HILLCREEK DR. S.- CUL DE SAC	17	3	26	238	58
HILLCREEK DR. N.	HILLCREEK DR.-HILLCREEK DR. S.	14	3	27	1479	374
HILLCREEK DR. S.	HILLCREEK DR.S.-CUL DE SAC	13	3	27	2477	627
HILLCREEK DR	AUG.W.PKWY-HILLCREEK DR.N.& S.	14	3	27	1409	357
LARKS CT.	CUL DE SAC-CUL DE SAC	18	3	26	1046	255
TRADD CT.	HILLCREEK DR-CUL DE SAC	21	3	26	950	232
WRIGHTSBORO RD	MARKS CH. RD-NORTH LEG	19	3	29	3071	835
LINCOLNTON PKWY.	WIND.SP.RD.-SPIRIT CREEK RD	20	4 & 6	28	1519	1546
PEPPERIDGE DR	#2165-STONEYBROOK RD	22	4	27	1405	356
FAIRCREST AVE	PEACH ORCHARD RD - #2117	21	4	25	935	219
QUAIL HOLLOW DR	TOBACCO RD-PHEASANT DR	19	4	27	1558	394

# RESURFACING WORKSHEET

## LARP 2007

WOODLAKE RD	WALSHAM CT - CROSSCREEK RD	18	4	38	1204	429
STURNIDAE DR	MEADOWBROOK RD - SCHOOL	21	4	33	1119	346
ANDORRA DR.	GIBRALTER DR.-#2570	20	4	28.13	1157	305
GRANADA PL.	CUL DE SAC-CUL DE SAC	17	4	28	581	153
WOODCOCK DR	TOBACCO RD-#3653	17	4	26.5	5153	1280
GEBHART DR	POSTELL DR - CONNISTON DR.	17	4	27	1283	325
STAFFORD ST.	CROSSCREEK DR.-DEAD END	21	4	26	1700	462
SADDLEHORN CT.	SADDLEHORN RUN-CUL DE SAC	20	4	39	676	178
OSLO RD.	DUBLIN DR.-CAIRO DR.	17	4	26	861	210
REGENCY BLVD	READ MALL ENTRANCE - DEAD END	28	5	41.41	1062	412
ROZELLA RD.	MILLEDGEVILLE RD.-DEAD END	23	5	16.33	2128	324
FARRIS ST.	ROZELLA RD-HOPIE RD.	19	5	19	1019	182
TOM DR.	GLENN HILLS DR.-DEAD END	17	5	28.86	3179	860
BREEZE HILL DR.	GLENN HILLS DR.- SOUTH/DENTON DR.	17	5	25	729	171
SPIRIT CREEK RD.	#2560-2606	19	6	29	1769	481
BASSWOOD DR	PARKWOOD DR-CUL DE SAC	18	6	30.5	4525	1294
TRAVIS RD.	#2336-WINDSOR SPRING RD.	19	6	23	3258	703
EAGLE POINT DR	CUL DE SAC-CUL DE SAC	17	7	26	1996	487
REGENT PL	REGENT RD - CUL DE SAC	16	7	28	1172	308
WESTCLIFF CT.	PLEASANT HOME RD.-CUL DE SAC	19	7	27.21	1409	360
STEVENS CREEK	N. MAYO RD.-COLUMBIA COUNTY LINE	19	7	23	1409	304
WESTSIDE DR.	RIVERWATCH PKWY-CUL DE SAC	23	7	33	1363	422
WOODBUFF WAY	SKINNER MILL RD.-#2213	23	7	27	729	185
CEDAR OAK LN.	OLD WAYNESBORO-DEAD END	25	8	20	1283	241
HEPH-MCBEAN RD	US.25-HEPHZIBAH CITY LIMIT #2221	25	8	22	20,740	4278
HARDING RD	RICHMOND HILL RD.- PEACH ORCHARD RD	19	8	27	3,163	801
GOSHEN LN-NORTH & SOUTH	GOSHEN CIR.-CUL DE SAC	19	8	24	1204	271
				<b>TOTAL</b>	<b>22 MILES</b>	