



Engineering Services Committee Meeting Committee Room- 3/9/2009- 1:00 PM

ENGINEERING SERVICES

1. Motion to authorize Georgia Power Company to proceed with procurement process, underground rough-in and timely installation of parking lot site lighting in the amount of \$123,033.00 which includes trenching, underground conduit, wiring, installation of decorative poles and lights for the new Judicial Center. ☐ [Attachments](#)
2. Motion to authorize Potts Construction Company to award Bid Package 4, in the amount of \$16,181,872.00, which includes Structural Steel, Courtroom Mock-ups, Drywall/Framing/ACT, Window Wash Tie-Backs, Elevators, HVAC, Plumbing, Fire Protection, and Electrical, for the new Judicial Center. ☐ [Attachments](#)
3. Motion to approve \$29,626.25 to Eagle Utility for emergency repair work on Doug Barnard Parkway. ☐ [Attachments](#)
4. Approve Capital Project Budget (CPB) and Supplemental Agreement Number One for the FERC Dam Safety Performance Monitoring Program in the amount of \$624,470.00 to certify the Augusta Levee in accordance with both FEMA (Federal Emergency Management Agency), and the Army Corp of Engineers guidelines. ☐ [Attachments](#)
5. Motion to authorize condemnation to acquire a permanent drainage and access easement and a temporary construction easement for the AUD D'Antignac Drainage Improvements Project at the property designated as Tax Map 046-2, Parcel 120-01, 1225 Walton Way. ☐ [Attachments](#)
6. Award Design Consultant Services Agreement to WR Toole Engineers, Inc. for the Capital Project Budget in the amount of \$500,000 on the East Augusta Street and Drainage Improvements Project to be funded from SPLOST Phase III Urban Recapture Funds for the Engineering Department. ☐ [Attachments](#)
7. Motion to approve and accept a Deed of Easement from Norfolk Southern, NS Activity #1108126. ☐ [Attachments](#)
8. Motion to approve and accept a Deed of Easement from Norfolk Southern, NS Activity #1108127. ☐ [Attachments](#)

9. Motion to approve an Easement Deed from Southern Region Industrial Realty, Inc. ☐ [Attachments](#)
10. Approve Capital Project Budget Change Number One and Award Design Consultant Services Agreement to W.K. Dickson and Co., Inc. in the amount of \$328,735.00 for the Wilkinson Garden Area Roadway Drainage Improvements Project (CPB# 323-041110-204823525). Funds of \$291,180.00 are to be used from the Project Engineering Account, and \$37,555.00 from Phase III Recapture to fully fund the Design Phase for the Engineering Department. ☐ [Attachments](#)

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**Engineering Services Committee Meeting
3/9/2009 1:00 PM
AJC - GA Power Site Lighting**

Department: Public Services Department - Facilities Management Division

Caption: Motion to authorize Georgia Power Company to proceed with procurement process, underground rough-in and timely installation of parking lot site lighting in the amount of \$123,033.00 which includes trenching, underground conduit, wiring, installation of decorative poles and lights for the new Judicial Center.

Background: Georgia Power was selected through negotiations and independent estimate comparison. Heery International and Turner Associates with their consultants have attended meetings, held discussions and corresponded with Georgia Power over the past 9 months working out details for a parking lot lighting installation that will complement the new Judicial Center.

Analysis: Georgia Power was found to have provided the least expensive turn-key operation for installing and maintaining the exterior parking lot lighting at the new facility. The poles and lights will coordinate with the existing streetscape lighting in the downtown area. The Scope of Work includes trenching, underground conduit, cable, direct power wiring to Georgia Power line, decorative poles and light installation and is within the budgeted amount that was estimated for this phase of the work.

Financial Impact: The amount for upfront costs for the parking lot site lighting is \$123,033.00. The Georgia Power package includes a government monthly rate fee for energy and lifetime maintenance warranty of the total installation for \$908.42.

Alternatives: 1. Provide authorization to Georgia Power Company to proceed with procurement process, underground rough-in and timely installation of parking lot site lighting, in the amount of \$123,033.00 which includes trenching, underground conduit, wiring, installation of decorative poles and lights for the new Judicial Center. 2. Award to the alternate estimate for \$223,182.00 and receive only a one year warranty on the site lighting.

Recommendation: #1. Provide authorization to Georgia Power Company to proceed with procurement process, underground rough-in and timely installation of parking lot site lighting, in the amount of \$123,033.00 which includes trenching, underground conduit, wiring, installation of decorative poles and lights for the new Judicial Center.

Cover Memo

**Funds are Available in
the Following**

FUNDS ARE AVAILABLE IN ACCOUNT: Judicial Center: #324-05-

Accounts:

1120/201150500 Judicial Center: 325-05-1120/209251104

REVIEWED AND APPROVED BY:

Finance.

Procurement.

Law.

Administrator.

Clerk of Commission



**Engineering Services Committee Meeting
3/9/2009 1:00 PM
AJC Bid Package 4**

Department: Public Services Department - Facilities Management Division

Caption: Motion to authorize Potts Construction Company to award Bid Package 4, in the amount of \$16,181,872.00, which includes Structural Steel, Courtroom Mock-ups, Drywall/Framing/ACT, Window Wash Tie-Backs, Elevators, HVAC, Plumbing, Fire Protection, and Electrical, for the new Judicial Center.

Background: Potts Construction was selected under RFQ 07-180 as the Judicial Center project's Construction Manager at Risk. The Design team, led by Turner Associates, completed the 80% Documents in December, and bids were accepted and reviewed by Potts, under the observation of the Procurement Department.

Analysis: The following are the lowest responsive, responsible bidders, as determined by Potts Construction to perform the work. The Subcontractors pursuant to this Exhibit B-4 are as follows: 1. Structural Steel: Jonquil Steel – Mableton, Ga. 2. Courtroom Mockup: Augusta Sash and Door – Augusta, Ga. 3. Elevator: Otis Elevator – Atlanta, Ga. 4. Plumbing/HVAC: Gold Mechanical – Augusta, Ga. 5. Electrical: Dean Electric / Vastec Group – Augusta, Ga. 6. Drywall/ACT: Hester Drywall – Columbia , SC The Scope of Work includes Structural Steel, Courtroom Mock-ups, Drywall/Framing/ACT, Window Wash Tie-Backs, Elevators, HVAC, Plumbing, Fire Protection, and Electrical , and is within the budgeted amount that was estimated for this phase of the work. Potts Construction, in conjunction with the Design and Program Management team, will provide oversight during this and subsequent phases of the project. Proceeding with this work now will allow construction to proceed in an expedited fashion, leading to quicker completion of the new Judicial Center. Potts Construction has included attachment 'F' with a unit cost list for site work conditions which was inadvertently not included in B-1 package.

Financial Impact: The amount for Bid Package #4 is a component of the Guaranteed Maximum Price (GMP), which is scheduled to be established and approved in March, 2009. The total GMP is currently budgeted to not exceed \$48.5M.

Alternatives: 1. Provide authorization to Potts Construction Company to award Bid Package 4, in the amount of \$16,181,872.00, which includes Structural Steel, Courtroom Mock-ups, Drywall/Framing/ACT, Window Wash Tie-Backs, Elevators, HVAC, Plumbing, Fire Protection, and Electrical, for the new Judicial Center. 2. Wait until the Guaranteed Maximum Price is established in March 2009, and delay the completion of the facility by three (3) months.

Recommendation:

#1. Provide authorization to Potts Construction Company to award Bid Package 4, in the amount of \$16,181,872.00, which includes Structural Steel, Courtroom Mock-ups, Drywall/Framing/ACT, Window Wash Tie-Backs, Elevators, HVAC, Plumbing, Fire Protection, and Electrical, for the new Judicial Center.

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

FUNDS ARE AVAILABLE IN ACCOUNT: Judicial Center: #324-05-1120/201150500 Judicial Center: #325-05-1120/209251104

REVIEWED AND APPROVED BY:

Finance.

Procurement.

Law.

Administrator.

Clerk of Commission

Exhibit B-4 Authorization for Construction

Pursuant to this agreement, the Owner and the Construction Manager hereby execute this Exhibit B-4 and further agree as follows:

1. The Construction Manager's Guaranteed Maximum Price ("GMP") proposal for the entire Project has not been established. However, the Construction Manager's GMP for the Early Award Bid Package #4, dated February 20, 2009, to fast track the Project, attached hereto and incorporated herein, is accepted by the Owner. Construction Manager's GMP for the early award bid packages #1, 2, and 3 to fast track the project, have been accepted by the Owner as per the executed exhibit B-1, 2, and 3.
2. The General Conditions Guaranteed Maximum Cost for the Project, as per Executed Exhibit B-1, is \$3,004,130.00
3. Preconstruction Services Cost, as per Executed Exhibit B-1, is \$192,455.00
4. The Subcontracts Cost is:

Bid Package #1, as per Executed Exhibit B-1	\$1,610,762.00
Bid Package #2, as per Executed Exhibit B-2	\$877,884.00
Bid Package #3, as per Executed Exhibit B-3	\$7,102,179.00
Bid Package #4	\$16,181,872.00
Change Order #1	\$16,578.00
Bid Package #5	TBD
5. The Lump Sum Fixed Management Fee for the Project, as per Executed Exhibit B-1, is \$1,798,026.00
6. The Guaranteed Maximum Price for the Project is TBD
7. The Date of Substantial Completion shall be TBD

Exhibit B-4 is based on attached Schedule "A" dated February 20, 2009.

Owner: <u>Augusta, Georgia</u> By: _____	Construction Manager: <u>The Potts Company</u> _____
(Signature) _____ (Seal) _____	(Signature) _____ (Seal) _____
(Name) _____	David C. Buser (Name) _____
(Title) _____	President (Title) _____
(Attest) _____	981 East Freeway Drive (Street Address – No PO Box) _____
(City Clerk) _____	Conyers, Georgia 30094 (City, State, Zip) _____
Date of Signature _____	Date of Signature _____



AUGUSTA-RICHMOND COUNTY JUDICIAL CENTER PROJECT
EXHIBIT B-4 - BID PACKAGE FOUR – SCHEDULE “A”
QUALIFICATIONS
February 20, 2009

I. General Qualifications

1. Unless otherwise noted herein, the scope of the work corresponding to the Exhibit B-4 - Bid Package Four is consistent with the contract documents (plans and specifications) as indicated in Attachment “B.” Outlined herein are the changes and/or clarifications to the scope of work required by these contract documents which are a result of either negotiations, value engineering, clarifications, and constructability reviews.
2. Exhibit B-4 - Bid Package Four is based on the following attachments:
 - Schedule “A” - Attachment “A” - Bid Package 04 Estimate dated 2-20-09.
 - Schedule “A” - Attachment “B” - Contract Document Log dated 2-20-09.
 - Schedule “A” - Attachment “C” - Otis Elevator Proposal dated 2-20-09.
 - Schedule “A” - Attachment “D” - Tracking Budget Estimate dated 2-20-09.
 - Schedule “A” - Attachment “E” - Variance Report dated 2-20-09.
 - Schedule “A” - Attachment “F” - Unit Costs dated 2-20-09.
3. We assume the CAD files will be made available, at no cost to TPC and our Trade Contractors for the purpose of site surveying activities and subcontractor base line shop drawings.
4. Exhibit B-4 includes full cost of scope, based on the bid documents identified in Schedule “A” - Attachment “B”, for the following trades: Structural and Miscellaneous Steel, Drywall and ACT, Elevator, Fire Protection, Plumbing, HVAC, and Electrical. Specific qualifications for these trades are identified below. Any scope not directly associated with these trades or identified in previous Exhibit Packages are to be included in GMP pricing.

II. Division Specific Qualifications and Exclusions

Division 1

Qualifications:

1. None

Exclusions:

1. Cost associated with comments and inspections from state and local authorities resulting in changes to the scope of work from the date of execution of this Exhibit B-4 - Bid Package Four.

Division 2

Qualifications:

1. None

Exclusions:

1. Unforeseen conditions, underground hidden conditions including underground tanks, hazardous materials, unsuitable soils or unsuitable soil bearings, water and dewatering, debris and rock removal or its replacement, and wetland mitigation cost
2. Fill materials for the replacement of unforeseen conditions as listed above.

Division 3-4

Qualifications:

1. None

Exclusions:

1. None

Division 5

Qualifications:

1. Cost is included to use a Polyamide Epoxy coating on Stair #1 steel tube stringers in lieu of powder coating. The proposed coating will be the Hi-build Epoxoline Series 66 by Tnemec. The large size of these stringers will not allow for them to fit in to a powder coating oven.

Exclusions:

1. Powder coating of steel.

Division 6-8

Qualifications:

1. None

Exclusions:

1. None

Division 9

Qualifications:

1. Cost is included for ceiling types to be per finish plans. Reflected ceiling plans do not match finish plans. TPC believes that a more accurate depiction of scope has been shown on the finish plans.

Exclusions:

1. Prefabricated Metal Pockets for Blinds (To be priced in Future Exhibit)

Division 10-12

Qualifications:

1. None

Exclusions:

1. None

Division 13

Qualifications:

1. Cost is included for nineteen (19) Stainless Steel 18" Cast in Place roof anchors manufactured by Pro-Bel.

Exclusions:

1. None

Division 14

Qualifications:

1. Cost is included for three traction and two hydraulic elevators. Please see attached proposal from Otis Elevator Company in Schedule "A" - Attachment "C" dated 02-20-09, who we are proposing to use for this

scope of work. We have reviewed their proposal for general compliance with the contract documents – due to the nature of the elevator industry, all products for this scope of work will be per the attached Schedule “A” – Attachment “C”. Please note, minor design modifications will need to be made to the traction elevator’s pit depth and overheads. Otis requires a 5’ – 6” deep pit in lieu of the 8’ – 2” pit that is currently drawn. The hoistway louvers will need to be raised slightly in the overhead of the three traction elevator’s hoistways in order to accommodate Otis’ equipment. Cut / data sheet should address all involved dimensional criteria.

2. Cost is included for 4000# capacity cars with center opening doors and dual car operating panels for the two public elevators.
3. Cost is included for the Judges Elevator’s, car #3, controller to be located in room 126.02. Room 126.02 currently serves as the #4 Car’s Machine Room. Traction Elevator Control Room #441 is not of adequate size to house three controllers and comply with NEC code requirements.

Exclusions:

1. None

Division 15

Qualifications:

1. None

Exclusions:

1. None

Division 16

Qualifications:

1. Cost is included for conduit, boxes, and rough-in only for telephone, data, and detention equipment systems.
2. Cost is included for complete Security, CCTV, Intrusion Detection, Fire Alarm, and Lightning Protection Systems.
3. Cost is included for card access system for parking gate system; however, no cost is included for parking gates and sensor loop. These items will be priced in Future Exhibit.
4. Cost is included for Ceiling Mounted Speakers where indicated with associated conduit and wiring. Cable shall be terminated at speaker. Cable shall be pulled from speaker to final termination location and left unterminated. Owner employed A/V Contractor shall make all necessary connections and terminations to A/V head end equipment.
5. Cost is included for all branch circuitry. Where branch circuitry is incomplete or homerun locations not identified, TPC has assumed conduit runs to nearest electrical panel.

Exclusions:

1. X-Ray Machines (To be included in FFE Per Direction of the design Team in March 12, 2008 OAC Review Meeting)
2. Magnetometers (To be included in FFE Per Direction of the design Team in March 12, 2008 OAC Review Meeting)
3. A/V Head End Equipment or Racks
4. A/V System
5. Detention system equipment and/or wiring (To be priced in Future Exhibit)

III. Allowances – None Included

-END OF SCHEDULE A TO EXHIBIT B-4 - BID PACKAGE FOUR-



AJC - Bid Package 04
Schedule "A" Attachment "A"

Augusta-Richmond County Judicial Center - 35
Bid Package 04 - Critical Path

Project name	AJC - Bid Package 04 Schedule "A" Attachment "A" Augusta GA
Estimator	GRL/JGS/JCB/SWH
Bid date	2/20/2008 5:00 PM
Report format	Sorted by 'Group phase/Phase' 'Detail' summary Allocate addons Print item notes

Schedule "A" Attachment "A"

182,668.00 sqft



AJC - Bid Package 04
Schedule "A" Attachment "A"

Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit
Labor						
Material						
Subcontract	15,477,639					
Equipment						
Other						
	<u>15,477,639</u>	15,477,639				
Sub Bonds	<u>309,553</u>			2.000 %	C	
	309,553	15,787,192				
CM/GC Contingency	<u>394,680</u>			2.500 %	T	
	394,680	16,181,872				
Total		16,181,872				



Date:

2/20/2009

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

Sht No.s	DRAWING NAME	GMP DOCUMENTS ISSUE	GMP ADDENDUM ISSUE	TPC REC'D STAMP DATE
		DATE	DATE	
A0.0	COVER	12-22-08	02-10-09	FEB 10 2009
A0.1	DRAWING INDEX	12-22-08	02-10-09	FEB 10 2009
A0.2	NOTES SYMBOLS & ABBREVIATIONS	12-22-08		DEC 22 2008
C-0	CIVIL COVER SHEET	DECEMBER 22, 2008		DEC 22 2008
C-1	EXISTING CONDITIONS & DEMOLITION PLAN	DECEMBER 22, 2008		DEC 22 2008
C-2	GRADING & DRAINAGE PLAN	DECEMBER 22, 2008		DEC 22 2008
C-3	UTILITY PLAN	DECEMBER 22, 2008	02-10-09	FEB 10 2009
C-4	STAKING & PAVING PLAN	DECEMBER 22, 2008		DEC 22 2008
C-5	STORM & SANITARY SEWER PROFILES	DECEMBER 22, 2008		DEC 22 2008
C-6	INITIAL EROSION CONTROL PLAN	DECEMBER 22, 2008		DEC 22 2008
C-7	INTERMEDIATE EROSION CONTROL PLAN	DECEMBER 22, 2008		DEC 22 2008
C-8	FINAL EROSION CONTROL PLAN	DECEMBER 22, 2008		DEC 22 2008
C-9	STREET & STORM SEWER DETAILS	DECEMBER 22, 2008		DEC 22 2008
C-10	WATER & SANITARY SEWER DETAILS	DECEMBER 22, 2008		DEC 22 2008
C-11	MISCELLANEOUS DETAILS	DECEMBER 22, 2008		DEC 22 2008
C-12	NPDES PLAN	DECEMBER 22, 2008		DEC 22 2008
C-13	EROSION CONTROL DETAILS	DECEMBER 22, 2008		DEC 22 2008
L-1	Tree Planting Plan	12/22/08		DEC 22 2008
L-2	Shrub Planing Plan	12/22/08		DEC 22 2008
L-3	Irrigation Plan	12/22/08		DEC 22 2008
L-4	Landscape and Irrigation Details	12/22/08		DEC 22 2008
A1.1	ARCHITECTURAL SITE PLAN	12-22-08		DEC 22 2008
A1.2	ENLARGED SITE PLAN & DETAILS	12-22-08	02-10-09	FEB 10 2009
A1.3	SITE DETAILS	12-22-08	02-10-09	FEB 10 2009
ALS1.1	FIRST FLOOR LIFE SAFETY PLAN	12-22-08	02-10-09	FEB 10 2009
ALS1.2	SECOND FLOOR LIFE SAFETY PLAN	12-22-08		DEC 22 2008
ALS1.3	THIRD FLOOR LIFE SAFETY PLAN	12-22-08		DEC 22 2008
ALS1.4	FOURTH FLOOR LIFE SAFETY PLAN	12-22-08		DEC 22 2008
A2.1	OVERALL FIRST FLOOR PLAN	12/22/08		DEC 22 2008
A2.2	OVERALL SECOND FLOOR PLAN	12/22/08		DEC 22 2008
A2.3	OVERALL THIRD FLOOR PLAN	12/22/08		DEC 22 2008
A2.4	OVERALL FOURTH FLOOR PLAN	12/22/08		DEC 22 2008
A2.5	OVERALL ROOF PLAN	12-22-08	02-10-09	FEB 10 2009
A2.6	FIRST FLOOR PLAN PART I	12/22/08	2/10/09	FEB 10 2009

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

A2.7	FIRST FLOOR PLAN PART II	12/22/08	2/10/09	FEB 10 2009
A2.8	FIRST FLOOR PLAN PART III	12/22/08	2/10/09	FEB 10 2009
A2.9	SECOND FLOOR PLAN PART I	12/22/08	2/10/09	FEB 10 2009
A2.10	SECOND FLOOR PLAN PART II	12/22/08	2/10/09	FEB 10 2009
A2.11	SECOND FLOOR PLAN PART III	12/22/08	2/10/09	FEB 10 2009
A2.12	THIRD FLOOR PLAN PART I	12/22/08	2/10/09	FEB 10 2009
A2.13	THIRD FLOOR PLAN PART II	12/22/08	2/10/09	FEB 10 2009
A2.14	FOURTH FLOOR PLAN PART I	12/22/08	2/10/09	FEB 10 2009
A2.15	FOURTH FLOOR PLAN PART II	12/22/08	2/10/09	FEB 10 2009
A2.16	FIRST FLOOR OVERALL RCP	12/22/08		DEC 22 2008
A2.17	SECOND FLOOR OVERALL RCP	12/22/08		DEC 22 2008
A2.18	THIRD FLOOR OVERALL RCP	12/22/08		DEC 22 2008
A2.19	FOURTH FLOOR OVERALL RCP	12/22/08		DEC 22 2008
A2.20	FIRST FLOOR RCP - PART I	12/22/08	2/10/09	FEB 10 2009
A2.21	FIRST FLOOR RCP - PART II	12/22/08	2/10/09	FEB 10 2009
A2.22	FIRST FLOOR RCP - PART III	12/22/08	2/10/09	FEB 10 2009
A2.23	SECOND FLOOR RCP - PART I	12/22/08	2/10/09	FEB 10 2009
A2.24	SECOND FOOR RCP - PART II	12/22/08	2/10/09	FEB 10 2009
A2.25	SECOND FLOOR RCP - PART III	12/22/08		DEC 22 2008
A2.26	THIRD FLOOR RCP - PART I	12/22/08	2/10/09	FEB 10 2009
A2.27	THIRD FLOOR RCP - PART II	12/22/08	2/10/09	FEB 10 2009
A2.28	FOURTH FLOOR RCP - PART I	12/22/08	2/10/09	FEB 10 2009
A2.29	FOURTH FLOOR RCP - PART II	12/22/08	2/10/09	FEB 10 2009
A2.30	ENLARGED LOBBY PLAN	12/22/08	02-10-09	FEB 10 2009
A.230.1	ENLARGED LOBBY REFLECTED CEILING PLAN	12-22-08	02-10-09	FEB 10 2009
A2.31	LOBBY FLOOR PATTERN PLAN	12-22-08	02-10-09	FEB 10 2009
A2.32	ENLARGED PLAN/RCP - SPECIAL PROCEEDINGS COURTROOM	DECEMBER 22nd, 2008		DEC 22 2008
A2.33	ENLARGED PLAN/RCP - LARGE COURTROOM	DECEMBER 22nd, 2008		DEC 22 2008
A2.34	ENLARGED PLAN/RCP - STANDARD COURTROOM	DECEMBER 22nd, 2008		DEC 22 2008
A2.35	ENLARGED PLAN/RCP - HEARING ROOM & GRAND JURY ROOM	DECEMBER 22nd, 2008		DEC 22 2008
A2.36	ENLARGED PLAN/RCP - NON-JURY COURTROOM	DECEMBER 22nd, 2008		DEC 22 2008
A2.37	TOILET ROOM PLANS & ELEVATIONS	12/22/08		DEC 22 2008
A2.38	TOILET ROOM PLANS & ELEVATIONS	12/22/08	2/10/09	FEB 10 2009
A2.39	TOILET ROOM PLANS & ELEVATIONS	12/22/08	2/10/09	FEB 10 2009
A2.41	ENLARGED PLANS AND ELEVATIONS - DETENTION AREAS	DECEMBER 22nd, 2008	02-10-09	FEB 10 2009
A2.42	ENLARGED PLANS-DETENTION AREAS	DECEMBER 22nd, 2008		DEC 22 2008

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

A2.42.1	ENLARGED PLANS AND ELEVATIONS - DETENTION AREAS	DECEMBER 22nd, 2008		DEC 22 2008
A2.44	TOWER PLANS	12-22-08	02-10-09	FEB 10 2009
A3.1	PARTITION TYPES	11/5/08	2/10/09	FEB 10 2009
A3.2	DOOR SCHEDULE	12/22/08	2/10/09	FEB 10 2009
A3.3	DOOR SCHEDULE	12/22/08	2/10/09	FEB 10 2009
A3.4	DOOR AND FRAME ELEVATIONS	12/22/08	2/10/09	FEB 10 2009
A3.5	INTERIOR DOOR DETAILS	12/22/08	2/10/09	FEB 10 2009
A3.7	INTERIOR WINDOW ELEVATIONS & DETAILS	12/22/08	2/10/09	FEB 10 2009
A3.8	WINDOW & CURTAIN WALL ELEVATIONS	12-22-08	02-10-09	FEB 10 2009
A3.9	FIRST FLOOR FINISH PLAN	12/22/08	2/10/09	FEB 10 2009
A3.10	SECOND FLOOR FINISH PLAN	12/22/08	2/10/09	FEB 10 2009
A3.11	THIRD FLOOR FINISH PLAN	12/22/08	2/10/09	FEB 10 2009
A3.12	FOURTH FLOOR FINISH PLAN	12/22/08	2/10/09	FEB 10 2009
A4.1	EXTERIOR ELEVATIONS	12-22-08	02-10-09	FEB 10 2009
A4.2	EXTERIOR ELEVATIONS	12-22-08	02-10-09	FEB 10 2009
A4.3	ENLARGED ELEVATIONS	12-22-08	02-10-09	FEB 10 2009
A4.4	ENLARGED ELEVATIONS	12-22-08	02-10-09	FEB 10 2009
A4.4.1	ALTERNATE ENLARGED ELEVATIONS @ TOWER	12-22-08	02-10-09	FEB 10 2009
A4.5	BUILDING SECTIONS	12-22-08		DEC 22 2008
A4.6	BUILDING SECTIONS	12-22-08		DEC 22 2008
A4.7	BUILDING SECTIONS	12-22-08		DEC 22 2008
A5.1	WALL SECTIONS	12-22-08	02-10-09	FEB 10 2009
A5.2	WALL SECTIONS	12-22-08	02-10-09	FEB 10 2009
A5.3	WALL SECTIONS	12-22-08	02-10-09	FEB 10 2009
A5.4	WALL SECTIONS	12-22-08	02-10-09	FEB 10 2009
A5.5	WALL AND SECTION DETAILS	12-22-08	02-10-09	FEB 10 2009
A5.6	LOBBY SECTIONS	12-22-08	02-10-09	FEB 10 2009
A5.7	TOWER SECTION	12-22-08		DEC 22 2008
A5.8	TOWER SECTION	12-22-08		DEC 22 2008
A5.9	LOBBY WALL SECTIONS	12-22-08	02-10-09	FEB 10 2009
A6.0	STAIR #1 PLANS & SECTIONS	12-22-08	02-10-09	FEB 10 2009
A6.1	STAIR #1 DETAILS	12-22-08	02-10-09	FEB 10 2009
A6.1.1	STAIR #1 DETAILS	12-22-08	02-10-09	FEB 10 2009
A6.2	STAIR #2 PLANS, SECTIONS & DETAILS	12/22/08		DEC 22 2008
A6.3	STAIR #3 PLANS, SECTIONS & DETAILS	12/22/08	2/10/09	FEB 10 2009
A6.4	STAIR #4 PLANS, SECTIONS & DETAILS	12/22/08	2/10/09	FEB 10 2009

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

A6.5	ELEVATOR PLANS	12/22/08	2/10/09	FEB 10 2009
A6.6	ELEVATOR SECTIONS & DETAILS	12/22/08	2/10/09	FEB 10 2009
A7.1	LOBBY 2ND FLOOR ELEVATIONS	12/22/08		DEC 22 2008
A7.2	PUBLIC CORRIDOR ELEVATIONS	12/22/08	2/10/09	FEB 10 2009
A7.2.1	ADD ALTERNATE PUBLIC CORRIDOR ELEVATIONS	12/22/08	2/10/09	FEB 10 2009
A7.3	STAFF CORRIDOR ELEVATIONS	12/22/08		DEC 22 2008
A7.4	INTERIOR PLANS & ELEVATIONS	12/22/08	2/10/09	FEB 10 2009
A7.5	INTERIOR ELEVATIONS-MILLWORK	12/22/08	2/10/09	FEB 10 2009
A7.6	LOBBY INTERIOR ELEVATIONS	12-22-08	02-10-09	FEB 10 2009
A7.6.1	ALTERNATE LOBBY INTERIOR ELEVATIONS	12-22-08	02-10-09	FEB 10 2009
A7.7	LOBBY MILLWORK PLAN & ELEVATIONS	12-22-08		DEC 22 2008
A7.8	INTERIOR ELEVATIONS - COURTROOM	DECEMBER 22nd, 2008		DEC 22 2008
A7.9	INTERIOR ELEVATIONS COURTROOMI	DECEMBER 22nd, 2008		DEC 22 2008
A7.10	INTERIOR ELEVATIONS - NON-JURY/HEARING ROOM	DECEMBER 22nd, 2008		DEC 22 2008
A7.11	INTERIOR ELEVATIONS - GRAND JURY	DECEMBER 22nd, 2008		DEC 22 2008
A8.1	INTERIOR PLAN / SECTION DETAILS	12/22/08	2/10/09	FEB 10 2009
A8.4	LOBBY PLAN DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.5	COURTROOM PLAN/SECTION DETAILS	DECEMBER 22nd, 2008		DEC 22 2008
A8.5.1	COURTROOM PLAN/SECTION DETAILS	DECEMBER 22nd, 2008		DEC 22 2008
A8.6	DETENTION DETAILS	DECEMBER 22nd, 2008		DEC 22 2008
A8.7	PLAN DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.8	PLAN DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.9	SECTION DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.10	DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.11	SECTION DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.12	SECTION DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.13	TOWER PLAN DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.14	PLAN DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.15	ROOF DETAILS	12-22-08	02-10-09	FEB 10 2009
A8.16	ROOF DETAILS	12-22-08	02-10-09	FEB 10 2009
A9.1	INTERIOR ELEVATIONS	12-22-08	2-10-09	FEB 10 2009
A9.2	INTERIOR MILLWORK SECTIONS & DETAILS		2/10/09	FEB 10 2009
A9.3	LOBBY MILLWORK SECTIONS & DETAILS	12-22-08		DEC 22 2008
A9.4	SPECIAL PROCEEDINGS COURTROOM MILLWORK ELEVATIONS	DECEMBER 22nd, 2008	02-10-09	FEB 10 2009
A9.5	LARGE/STANDARD COURTROOM MILLWORK ELEVATIONS	DECEMBER 22nd, 2008	02-10-09	FEB 10 2009
A9.6	COURTROOM MILLWORK ELEVATIONS	DECEMBER 22nd, 2008	02-10-09	FEB 10 2009

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Project Name: Augusta Richmond County Judicial Center

A9.7	NON-JURY/HEARING ROOM MILLWORK ELEVATIONS	DECEMBER 22nd, 2008		DEC 22 2008
A9.8	COURTROOM MILLWORK DETAILS	DECEMBER 22nd, 2008		DEC 22 2008
A9.9	COURTROOM MILLWORK DETAILS	DECEMBER 22nd, 2008		DEC 22 2008
A9.10	COURTROOM MILLWORK & DETAILS	DECEMBER 22nd, 2008		DEC 22 2008
A9.11	DETENTION MILLWORK. SECTIONS & DETAILS	DECEMBER 22nd, 2008		DEC 22 2008
I-111.1	FIRST FLOOR FURNITURE PLAN SECTION 1	12/22/08		DEC 22 2008
I-111.2	FIRST FLOOR FURNITURE PLAN SECTION 2	12/22/08		DEC 22 2008
I-111.3	FIRST FLOOR FURNITURE PLAN SECTION 3	12/22/08		DEC 22 2008
I-112.1	SECOND FLOOR FURNITURE PLAN SECTION 1	12/22/08		DEC 22 2008
I-112.2	SECOND FLOOR FURNITURE PLAN SECTION 2	12/22/08		DEC 22 2008
I-112.3	SECOND FLOOR FURNITURE PLAN SECTION 3	12/22/08		DEC 22 2008
I-113.1	THIRD FLOOR FURNITURE PLAN SECTION 1	12/22/08		DEC 22 2008
I-113.2	THIRD FLOOR FURNITURE PLAN SECTION 2	12/22/08		DEC 22 2008
I-114.1	FOURTH FLOOR FURNITURE PLAN SECTION 1	12/22/08		DEC 22 2008
I-114.2	FOURTH FLOOR FURNITURE PLAN SECTION 2	12/22/08		DEC 22 2008
F0.0	DEEP FOUNDATION GENERAL NOTES	12-22-2008		DEC 22 2008
F1.0	AUGER CAST PILE LAYOUT PLAN OVERALL	12-22-2008	02-10-2009	FEB 10 2009
F1.1	AUGER CAST PILE LAYOUT PLAN	12-22-2008	02-10-2009	FEB 10 2009
F1.2	AUGER CAST PILE LAYOUT PLAN	12-22-2008		DEC 22 2008
F1.3	AUGER CAST PILE LAYOUT PLAN	12-22-2008	02-10-2009	FEB 10 2009
F2.0	PILE FOUNDATION DETAILS	12-22-2008		DEC 22 2008
F2.1	FOUNDATION DETAILS	12-22-2008		DEC 22 2008
S0.0	STRUCTURAL NOTES	12-22-2008		DEC 22 2008
S0.1	STRUCTURAL NOTES & LEGEND	12-22-2008		DEC 22 2008
S0.2	FIRST LEVEL LOADING PLAN	12-22-2008		DEC 22 2008
S0.3	SECOND LEVEL LOADING PLAN	12-22-2008		DEC 22 2008
S0.4	THIRD LEVEL LOADING PLAN	12-22-2008		DEC 22 2008
S0.5	FOURTH LEVEL LOADING PLAN	12-22-2008		DEC 22 2008
S0.6	FIRST LEVEL EDGE OF SLAB PLAN	12-22-2008		DEC 22 2008
S0.7	SECOND LEVEL EDGE OF SLAB PLAN	12-22-2008		DEC 22 2008
S0.8	THIRD LEVEL EDGE OF SLAB PLAN	12-22-2008		DEC 22 2008
S0.9	FOURTH LEVEL EDGE OF SLAB PLAN	12-22-2008		DEC 22 2008
S0.10	FIFTH LEVEL EDGE OF SLAB PLAN	12-22-2008		DEC 22 2008
S1.0	PILE CAP LAYOUT PLAN OVERALL	12-22-2008	02-10-2009	FEB 10 2009
S1.1	PILE CAP LAYOUT PLAN	12-22-2008	02-10-2009	FEB 10 2009
S1.2	PILE CAP LAYOUT PLAN	12-22-2008		DEC 22 2008

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S1.3	PILE CAP LAYOUT PLAN	12-22-2008	02-10-2009	FEB 10 2009
S1.4	FIRST LEVEL SLAB & GRADE BEAM LAYOUT PLAN OVERALL	12-22-2008		DEC 22 2008
S1.5	FIRST LEVEL SLAB & GRADE BEAM LAYOUT PLAN	12-22-2008		DEC 22 2008
S1.6	FIRST LEVEL SLAB & GRADE BEAM LAYOUT PLAN	12-22-2008		DEC 22 2008
S1.7	FIRST LEVEL SLAB & GRADE BEAM LAYOUT PLAN	12-22-2008		DEC 22 2008
S2.0	SECOND LEVEL FRAMING PLAN OVERALL	12-22-2008		DEC 22 2008
S2.1	SECOND LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S2.2	SECOND LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S2.3	SECOND LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S2.4	SECOND LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S2.5	SECOND LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S2.6	SECOND LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S2.7	SECOND LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S3.0	THIRD LEVEL FRAMING PLAN OVERALL	12-22-2008		DEC 22 2008
S3.1	THIRD LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S3.2	THIRD LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S3.3	THIRD LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S3.4	THIRD LEVEL SLAB PLAN OVERALL	12-22-2008		DEC 22 2008
S3.5	THIRD LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S3.6	THIRD LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S3.7	THIRD LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S4.0	FOURTH LEVEL FRAMING PLAN OVERALL	12-22-2008		DEC 22 2008
S4.1	FOURTH LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S4.2	FOURTH LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S4.3	FOURTH LEVEL SLAB PLAN OVERALL	12-22-2008		DEC 22 2008
S4.4	FOURTH LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S4.5	FOURTH LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S5.0	FIFTH LEVEL FRAMING PLAN OVERALL	12-22-2008		DEC 22 2008
S5.1	FIFTH LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S5.2	FIFTH LEVEL FRAMING PLAN	12-22-2008		DEC 22 2008
S5.3	FIFTH LEVEL SLAB PLAN OVERALL	12-22-2008		DEC 22 2008
S5.4	FIFTH LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S5.5	FIFTH LEVEL SLAB PLAN	12-22-2008		DEC 22 2008
S6.0	TOWER FRAMING PLAN	12-22-2008		DEC 22 2008
S7.0	BEAM SCHEDULE AND DETAILS	12-22-2008		DEC 22 2008
S7.1	BEAM SCHEDULE AND DETAILS	12-22-2008	02-10-2009	FEB 10 2009

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S7.2	BEAM SCHEDULE AND DETAILS	12-22-2008		DEC 22 2008
S7.3	BEAM SCHEDULE AND DETAILS	12-22-2008		DEC 22 2008
S7.4	BEAM SCHEDULE AND DETAILS	12-22-2008		DEC 22 2008
S7.5	BEAM SCHEDULE AND DETAILS	12-22-2008		DEC 22 2008
S7.6	BEAM SCHEDULE AND DETAILS	12-22-2008		DEC 22 2008
S7.7	BEAM SCHEDULE AND DETAILS	12-22-2008		DEC 22 2008
S7.8	COLUMN SCHEDULE AND DETAILS	12-22-2008		DEC 22 2008
S7.9	COLUMN SCHEDULE AND DETAILS	12-22-2008		DEC 22 2008
S8.0	FOUNDATION DETAILS	12-22-2008		DEC 22 2008
S8.1	FOUNDATION DETAILS	12-22-2008		DEC 22 2008
S9.0	MASONRY SECTIONS & DETAILS	12-22-2008		DEC 22 2008
S10.0	STEEL SECTIONS & DETAILS	12-22-2008		DEC 22 2008
S11.0	CONCRETE FRAME SECTIONS & DETAILS	12-22-2008		DEC 22 2008
S11.1	CONCRETE FRAME SECTIONS & DETAILS	12-22-2008		DEC 22 2008
S11.2	CONCRETE FRAME SECTIONS & DETAILS	12-22-2008		DEC 22 2008
S11.3	CONCRETE FRAME SECTIONS & DETAILS	12-22-2008		DEC 22 2008
S11.4	CONCRETE FRAME SECTIONS & DETAILS	12-22-2008		DEC 22 2008
S11.5	CONCRETE FRAME SECTIONS & DETAILS	12-22-2008		DEC 22 2008
S12.0	ELEVATOR PLANS, DETAILS & SECTIONS	12-22-2008		DEC 22 2008
S13.0	STAIR PLANS, DETAILS & SECTIONS	12-22-2008		DEC 22 2008
A0.0	COVER	12-22-08	02-10-09	FEB 10 2009
A0.1	DRAWING INDEX	12-22-08	02-10-09	FEB 10 2009
M-101.1	HVAC PLAN - FIRST FLOOR - PART I	12/22/2008	02/10/2009	FEB 10 2009
M-101.2	HVAC PLAN - FIRST FLOOR - PART II	12/22/2008	02/10/2009	FEB 10 2009
M-101.3	HVAC PLAN - FIRST FLOOR - PART III	12/22/2008	02/10/2009	FEB 10 2009
M-102.1	HVAC PLAN - SECOND FLOOR - PART I	12/22/2008	02/10/2009	FEB 10 2009
M-102.2	HVAC PLAN - SECOND FLOOR - PART II	12/22/2008	02/10/2009	FEB 10 2009
M-102.3	HVAC PLAN - SECOND FLOOR - PART III	12/22/2008	02/10/2009	FEB 10 2009
M-103.1	HVAC PLAN - THIRD FLOOR - PART I	12/22/2008	02/10/2009	FEB 10 2009
M-103.2	HVAC PLAN - THIRD FLOOR - PART II	12/22/2008	02/10/2009	FEB 10 2009
M-103.3	HVAC PLAN - SECOND FLOOR ROOF	12/22/2008	02/10/2009	FEB 10 2009
M-104.1	HVAC PLAN - FOURTH FLOOR- PART I	12/22/2008	02/10/2009	FEB 10 2009
M-104.2	HVAC PLAN - FOURTH FLOOR- PART II	12/22/2008	02/10/2009	FEB 10 2009
M-105.1	HVAC PLAN - FOURTH FLOOR ROOF - PART I	12/22/2008	02/10/2009	FEB 10 2009
M-105.2	HVAC PLAN - FOURTH FLOOR ROOF - PART II	12/22/2008	02/10/2009	FEB 10 2009
M-301	HVAC LEGEND & DETAILS	12/22/2008	02/10/2009	FEB 10 2009

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Project Name: Augusta Richmond County Judicial Center

M-302	HVAC DETAILS	12/22/2008	02/10/2009	FEB 10 2009
M-303	HVAC CONTROLS	12/22/2008	02/10/2009	FEB 10 2009
M-401	HVAC SCHEDULES	12/22/2008	02/10/2009	FEB 10 2009
M-402	HVAC SCHEDULES	12/22/2008	02/10/2009	FEB 10 2009
M-403	HVAC SCHEDULES	12/22/2008	02/10/2009	FEB 10 2009
P-101.1	PLUMBING WASTE PLAN - BELOW FIRST FLOOR - PART 1	12/22/2008	02/10/2009	FEB 10 2009
P-101.2	PLUMBING WASTE PLAN - BELOW FIRST FLOOR - PART 2	12/22/2008	02/10/2009	FEB 10 2009
P-101.3	PLUMBING WASTE PLAN - BELOW FIRST FLOOR - PART 3	12/22/2008	02/10/2009	FEB 10 2009
P-102.1	PLUMBING WASTE PLAN - ABOVE FIRST FLOOR - PART 1	12/22/2008	02/10/2009	FEB 10 2009
P-102.2	PLUMBING WASTE PLAN - ABOVE FIRST FLOOR - PART 2	12/22/2008	02/10/2009	FEB 10 2009
P-102.3	PLUMBING WASTE PLAN - ABOVE FIRST FLOOR - PART 3	12/22/2008	02/10/2009	FEB 10 2009
P-102.4	PLUMBING WATER PLAN - ABOVE FIRST FLOOR - PART 1	12/22/2008	02/10/2009	FEB 10 2009
P-102.5	PLUMBING WATER PLAN - ABOVE FIRST FLOOR - PART 2	12/22/2008	02/10/2009	FEB 10 2009
P-102.6	PLUMBING WATER PLAN - ABOVE FIRST FLOOR - PART 3	12/22/2008	02/10/2009	FEB 10 2009
P-103.1	PLUMBING WASTE PLAN - ABOVE SECOND FLOOR - PART 1	12/22/2008	02/10/2009	FEB 10 2009
P-103.2	PLUMBING WASTE PLAN - ABOVE SECOND FLOOR - PART 2	12/22/2008	02/10/2009	FEB 10 2009
P-103.3	PLUMBING WASTE PLAN - ABOVE SECOND FLOOR - PART 3	12/22/2008	02/10/2009	FEB 10 2009
P-103.4	PLUMBING WATER PLAN - ABOVE SECOND FLOOR - PART 1	12/22/2008	02/10/2009	FEB 10 2009
P-103.5	PLUMBING WATER PLAN - ABOVE SECOND FLOOR - PART 2	12/22/2008	02/10/2009	FEB 10 2009
P-103.6	PLUMBING WATER PLAN - ABOVE SECOND FLOOR - PART 3	12/22/2008	02/10/2009	FEB 10 2009
P-104.1	PLUMBING ROOF PLAN - ABOVE THIRD FLOOR - PART 1	12/22/2008	02/10/2009	FEB 10 2009
P-104.2	PLUMBING ROOF PLAN - ABOVE THIRD FLOOR - WEST	12/22/2008	02/10/2009	FEB 10 2009
P-104.3	PLUMBING ROOF PLAN - ABOVE THIRD FLOOR - EAST	12/22/2008	02/10/2009	FEB 10 2009
P-105.1	PLUMBING PLAN - ABOVE FOURTH FLOOR - WEST	12/22/2008	02/10/2009	FEB 10 2009
P-105.2	PLUMBING PLAN - ABOVE FOURTH FLOOR - EAST	12/22/2008	02/10/2009	FEB 10 2009
P-106.1	PLUMBING PLAN - ABOVE FIFTH FLOOR - ROOF PLAN	12/22/2008	02/10/2009	FEB 10 2009
P-107.1	PLUMBING SCHEDULE, NOTES, LEGEND & DETAILS	12/22/2008	02/10/2009	FEB 10 2009
FP-101.1	FIRE PROTECTION - FIRST FLOOR - PART 1	12/22/2008	02/10/2009	FEB 10 2009
FP-101.2	FIRE PROTECTION - FIRST FLOOR - PART 2	12/22/2008	02/10/2009	FEB 10 2009
FP-101.3	FIRE PROTECTION - FIRST FLOOR - PART 3	12/22/2008	02/10/2009	FEB 10 2009
FP-102.1	FIRE PROTECTION - SECOND FLOOR - PART 1	12/22/2008	02/10/2009	FEB 10 2009
FP-102.2	FIRE PROTECTION - SECOND FLOOR - PART 2	12/22/2008	02/10/2009	FEB 10 2009
FP-102.3	FIRE PROTECTION - SECOND FLOOR - PART 3	12/22/2008	02/10/2009	FEB 10 2009
FP-103.1	FIRE PROTECTION PLAN - THIRD FLOOR - WEST	12/22/2008	02/10/2009	FEB 10 2009
FP-103.2	FIRE PROTECTION PLAN - THIRD FLOOR - EAST	12/22/2008	02/10/2009	FEB 10 2009
FP-104.1	FIRE PROTECTION PLAN - FOURTH FLOOR - WEST	12/22/2008	02/10/2009	FEB 10 2009

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FP-104.2	FIRE PROTECTION PLAN - FOURTH FLOOR - EAST	12/22/2008	02/10/2009	FEB 10 2009
E-001	LEGEND, NOTES & FIXTURE SCHEDULE	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-002	DETAILS	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-003	DETAILS	DECEMBER 22, 2008		DEC 22 2008
E-101		DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-201.1	FIRST FLOOR LIGHTING PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-201.2	FIRST FLOOR LIGHTING PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-201.3	FIRST FLOOR LIGHTING PLAN PART III	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-202.1	SECOND FLOOR LIGHTING PLAN PART I	DECEMBER 22, 2008		DEC 22 2008
E-202.2	SECOND FLOOR LIGHTING PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-202.3	SECOND FLOOR LIGHTING PLAN PART III	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-203.1	THIRD FLOOR LIGHTING PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-203.2	THIRD FLOOR LIGHTING PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-204.1	FOURTH FLOOR LIGHTING PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-204.2	FOURTH FLOOR LIGHTING PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-301.1	FIRST FLOOR POWER PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-301.2	FIRST FLOOR POWER PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-301.3	FIRST FLOOR POWER PLAN PART III	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-302.1	SECOND FLOOR POWER PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-302.2	SECOND FLOOR POWER PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-302.3	SECOND FLOOR POWER PLAN PART III	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-303.1	THIRD FLOOR POWER PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-303.2	THIRD FLOOR POWER PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-304.1	FOURTH FLOOR POWER PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-304.2	FOURTH FLOOR POWER PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-401.1	FIRST FLOOR MECHANICAL POWER PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-401.2	FIRST FLOOR MECHANICAL POWER PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-401.3	FIRST FLOOR MECHANICAL POWER PLAN PART III	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-402.1	SECOND FLOOR MECHANICAL POWER PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-402.2	SECOND FLOOR MECHANICAL POWER PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-402.3	SECOND FLOOR MECHANICAL POWER PLAN PART III	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-403.1	THIRD FLOOR MECHANICAL POWER PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-403.2	THIRD FLOOR MECHANICAL POWER PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-404.1	FOURTH FLOOR MECHANICAL POWER PLAN PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-404.2	FOURTH FLOOR MECHANICAL POWER PLAN PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-405	MECHANICAL EQUIPMENT CONNECTION SCHEDULES	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009

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Project Name: Augusta Richmond County Judicial Center

E-501.1	FIRST FLOOR SYSTEMS PLAN - FIRE ALARM PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-501.2	FIRST FLOOR SYSTEMS PLAN - FIRE ALARM PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-501.3	FIRST FLOOR SYSTEMS PLAN - FIRE ALARM PART III	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-502.1	SECOND FLOOR SYSTEMS PLAN - FIRE ALARM PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-502.2	SECOND FLOOR SYSTEMS PLAN - FIRE ALARM PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-502.3	SECOND FLOOR SYSTEMS PLAN - FIRE ALARM PART III	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-503.1	THIRD FLOOR SYSTEMS PLAN - FIRE ALARM PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-503.2	THIRD FLOOR SYSTEMS PLAN - FIRE ALARM PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-504.1	FOURTH FLOOR SYSTEMS PLAN - FIRE ALARM PART I	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-504.2	FOURTH FLOOR SYSTEMS PLAN - FIRE ALARM PART II	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-601.1	FIRST FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART I	DECEMBER 22, 2008		DEC 22 2008
E-601.2	FIRST FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART II	DECEMBER 22, 2008		DEC 22 2008
E-601.3	FIRST FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART III	DECEMBER 22, 2008		DEC 22 2008
E-602.1	SECOND FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART I	DECEMBER 22, 2008		DEC 22 2008
E-602.2	SECOND FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART II	DECEMBER 22, 2008		DEC 22 2008
E-602.3	SECOND FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART III	DECEMBER 22, 2008		DEC 22 2008
E-603.1	THIRD FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART I	DECEMBER 22, 2008		DEC 22 2008
E-603.2	THIRD FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART II	DECEMBER 22, 2008		DEC 22 2008
E-604.1	FOURTH FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART I	DECEMBER 22, 2008		DEC 22 2008
E-604.2	FOURTH FLOOR DATA/VOICE INFRASTRUCTURE PLAN PART II	DECEMBER 22, 2008		DEC 22 2008
E-701	LIGHTNING PROTECTION PLAN	DECEMBER 22, 2008		DEC 22 2008
E-801	ELECTRICAL RISER DIAGRAM	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-802	PANEL SCHEDULES	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-803	PANEL SCHEDULES	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
E-804	PANEL SCHEDULES	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
DE-100	SITE PLAN	12/22/08		DEC 22 2008
DE-101	FIRST FLOOR PLAN	12/22/08		DEC 22 2008
DE-101.1	FIRST FLOOR PLAN - PART I	12/22/08		DEC 22 2008
DE-101.2	FIRST FLOOR PLAN - PART II	12/22/08		DEC 22 2008
DE-102	SECOND FLOOR PLAN	12/22/08		DEC 22 2008
DE-102.1	SECOND FLOOR PLAN - PART I	12/22/08		DEC 22 2008
DE-102.2	SECOND FLOOR PLAN - PART II	12/22/08		DEC 22 2008
DE-103	THIRD FLOOR & LOW ROOF PLAN	12/22/08		DEC 22 2008
DE-103.1	THIRD FLOOR & LOW ROOF PLAN - PART I	12/22/08		DEC 22 2008
DE-103.2	THIRD FLOOR & LOW ROOF PLAN - PART II	12/22/08		DEC 22 2008
DE-201	DETENTION EQUIPMENT DETAILS	12/22/08		DEC 22 2008
DE-202	DETENTION EQUIPMENT DETAILS	12/22/08		DEC 22 2008
SC-000	SECURITY SYMBOLS AND LEGEND	DECEMBER 22, 2008		DEC 22 2008
SC-001.1	SECURITY SITE PLAN	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

SC-111.1	SECURITY FIRST FLOOR PLAN PART A	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
SC-111.2	SECURITY FIRST FLOOR PLAN PART B	DECEMBER 22, 2008		DEC 22 2008
SC-111.3	SECURITY FIRST FLOOR PLAN PART C	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
SC-112.1	SECURITY SECOND FLOOR PLAN PART A	DECEMBER 22, 2008		DEC 22 2008
SC-112.2	SECURITY SECOND FLOOR PLAN PART B	DECEMBER 22, 2008		DEC 22 2008
SC-112.3	SECURITY SECOND FLOOR PLAN PART C	DECEMBER 22, 2008		DEC 22 2008
SC-113.1	SECURITY THIRD FLOOR PLAN PART A	DECEMBER 22, 2008		DEC 22 2008
SC-113.3	SECURITY THIRD FLOOR PLAN PART C	DECEMBER 22, 2008		DEC 22 2008
SC-114.1	SECURITY FOURTH FLOOR PLAN PART A	DECEMBER 22, 2008		DEC 22 2008
SC-114.3	SECURITY FOURTH FLOOR PLAN PART C	DECEMBER 22, 2008		DEC 22 2008
SC-200	SECURITY MARSHALL SECURITY OFFICE CONTROL CONSOLE	DECEMBER 22, 2008		DEC 22 2008
SC-201	MARSHALL SECURITY OFFICE CONTROL CONSOLE DETAILS	DECEMBER 22, 2008		DEC 22 2008
SC-300	SECURITY CENTRAL CONTROL ROOM CONSOLE	DECEMBER 22, 2008		DEC 22 2008
SC-301	SECURITY CENTRAL CONTROL ROOM CONSOLE DETAILS	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
SC-400	SECURITY CCTV SYSTEM DETAILS	DECEMBER 22, 2008		DEC 22 2008
SC-401	SECURITY CCTV SYSTEM SCHEDULES	DECEMBER 22, 2008		DEC 22 2008
SC-500	SECURITY INTRUSION DETECTION SYSTEM DETAILS	DECEMBER 22, 2008		DEC 22 2008
SC-600	SECURITY ACCESS CONTROL AND ALARM MONITORING SYSTEM DETAILS	DECEMBER 22, 2008		DEC 22 2008
SC-700	SECURITY INTERCOM SYSTEM DETAILS	DECEMBER 22, 2008		DEC 22 2008
SC-800	SECURITY DOOR DETAILS	DECEMBER 22, 2008		DEC 22 2008
SC-801	SECURITY DOOR DETAILS	DECEMBER 22, 2008		DEC 22 2008
SC-900	SECURITY FUNCTIONAL DIAGRAM	DECEMBER 22, 2008	FEBRUARY 10, 2009	FEB 10 2009
AV-000	AUDIOVISUAL SYMBOLS, LEGEND, AND NOTES	12/22/2008		DEC 22 2008
AV-100	DETAILS AND DEVICES	12/22/2008		DEC 22 2008
AV-101	DETAILS AND DEVICES	12/22/2008		DEC 22 2008
AV-102	DETAILS AND DEVICES	12/22/2008		DEC 22 2008
AV-200	AUDIOVISUAL OVERALL FIRST FLOOR PLAN	12/22/2008		DEC 22 2008
AV-201	AUDIOVISUAL OVERALL SECOND FLOOR PLAN	12/22/2008		DEC 22 2008
AV-202	AUDIOVISUAL OVERALL THIRD FLOOR PLAN	12/22/2008		DEC 22 2008
AV-203	AUDIOVISUAL OVERALL FIRST FLOOR RCP	12/22/2008		DEC 22 2008
AV-204	AUDIOVISUAL OVERALL SECOND FLOOR RCP	12/22/2008		DEC 22 2008
AV-205	AUDIOVISUAL OVERALL THIRD FLOOR RCP	12/22/2008		DEC 22 2008
AV-300	AUDIOVISUAL FIRST FLOOR PARTIAL PLAN(S)	12/22/2008		DEC 22 2008
AV-301	AUDIOVISUAL FIRST FLOOR RCP PARTIAL PLAN(S)	12/22/2008		DEC 22 2008
AV-302	AUDIOVISUAL SECOND FLOOR PARTIAL PLAN(S)	12/22/2008		DEC 22 2008
AV-303	AUDIOVISUAL SECOND FLOOR PARTIAL PLAN(S)	12/22/2008		DEC 22 2008

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

AV-304	AUDIOVISUAL SECOND FLOOR RCP PARTIAL PLAN(S)	12/22/2008		DEC 22 2008
AV-305	AUDIOVISUAL SECOND FLOOR RCP PARTIAL PLAN(S)	12/22/2008		DEC 22 2008
AV-306	AUDIOVISUAL THIRD FLOOR PARTIAL PLAN(S)	12/22/2008		DEC 22 2008
AV-307	AUDIOVISUAL THIRD FLOOR PARTIAL PLAN(S)	12/22/2008		DEC 22 2008
AV-308	AUDIOVISUAL THIRD FLOOR RCP PARTIAL PLAN(S)	12/22/2008		DEC 22 2008
AV-309	AUDIOVISUAL THIRD FLOOR RCP PARTIAL PLAN(S)	12/22/2008		DEC 22 2008
END OF DRAWINGS				

Spec. Section	SPECIFICATION NAME	GMP DOCUMENTS ISSUE	GMP ADDENDUM ISSUE	TPC REC'D STAMP DATE
		DATE	DATE	
00 01 01	PROJECT TITLE PAGE	December 22, 2008		
00 01 05	CERTIFICATIONS PAGE	December 22, 2008		
00 01 10	TABLE OF CONTENTS	December 22, 2008	February 10, 2009	FEB 12 2009
00 72 00	GENERAL CONDITIONS	September 15, 2008		
01 00 10	PROJECT DIRECTORY	September 15, 2008	February 10, 2009	FEB 12 2009
01 21 00	ALLOWANCES	December 22, 2008		
01 22 00	UNIT PRICES	September 15, 2008		
01 23 00	ALTERNATES	December 22, 2008		
01 25 13	PRODUCT SUBSTITUTION PROCEDURES	September 15, 2008		
01 29 00	PAYMENT PROCEDURES	September 15, 2008		
01 29 73	SCHEDULES OF VALUES	September 15, 2008		
01 31 13	PROJECT COORDINATION	September 15, 2008		
01 31 19	PROJECT MEETINGS	September 15, 2008		
01 32 16	CONSTRUCTION PROGRESS SCHEDULES	September 15, 2008		
01 32 33	PHOTOGRAPHIC DOCUMENTATION	July 8, 2008		
01 33 00	SUBMITTAL PROCEDURES	September 15, 2008		
01 41 14	SPECIAL INSPECTIONS	September 15, 2008		
01 43 38	PROJECT SITE MOCK-UPS	December 22, 2008		
01 45 29	TESTING LABORATORY SERVICES	September 15, 2008		
01 50 00	TEMPORARY FACILITIES AND CONTROLS	September 15, 2008		
01 65 00	PRODUCT DELIVERY, STORAGE, AND HANDLING	September 15, 2008		
01 73 29	CUTTING AND PATCHING	November 5, 2008		
01 74 00	CLEANING AND WASTE MANAGEMENT	September 15, 2008		
01 78 00	CLOSEOUT SUBMITTALS	September 15, 2008		
01 78 23.16	MAINTENANCE DATA	September 15, 2008		
01 78 34	WARRANTIES AND BONDS	November 5, 2008		
01 78 39	PROJECT RECORD DOCUMENTS	September 15, 2008		
01 91 10	GENERAL COMMISSIONING REQUIREMENTS		FEB 12 2009	FEB 12 2009
02 30 00	SUBSURFACE INVESTIGATIONS	September 15, 2008		
03 06 00	SCHEDULES FOR CAST-IN-PLACE CONCRETE	November 5, 2008		
03 30 00	CAST-IN-PLACE CONCRETE	November 5, 2008	February 10, 2009	FEB 12 2009



Date:

2/20/2009

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

03 35 00	CONCRETE FINISHING	November 5, 2008		
03 35 19	COLORED CONCRETE FINISHING	September 29, 2008		
03 38 16	UNBONDED POST-TENSIONED CONCRETE	November 5, 2008		
04 05 13	MASONRY MORTARING	December 22, 2008		
04 05 16	MASONRY GROUTING	December 22, 2008		
04 05 19	MASONRY ANCHORAGE AND REINFORCING	December 22, 2008		
04 05 23	MASONRY ACCESSORIES	December 22, 2008		
04 21 13	BRICK MASONRY	December 22, 2008		
04 21 14	BRICK VENEER MASONRY	December 22, 2008		
04 22 00	CONCRETE UNIT MASONRY	December 22, 2008		
04 42 00	EXTERIOR STONE CLADDING	December 22, 2008	February 10, 2009	FEB 12 2009
04 70 13	CALCIUM SILICATE MANUFACTURED BLOCK MASONRY	December 22, 2008	February 10, 2009	FEB 12 2009
04 72 00	CAST STONE MASONRY	December 22, 2008	February 10, 2009	FEB 12 2009
05 05 13	SHOP-APPLIED COATINGS FOR METAL	December 22, 2008		
05 12 00	STRUCTURAL STEEL FRAMING	December 22, 2008		
05 40 00	COLD FORMED METAL FRAMING	December 22, 2008		
05 50 00	METAL FABRICATIONS	December 22, 2008		
05 51 00	METAL STAIRS	December 22, 2008		
06 10 00	ROUGH CARPENTRY	December 22, 2008		
06 20 00	FINISH CARPENTRY	December 22, 2008	February 10, 2009	FEB 12 2009
06 61 16	SOLID SURFACING FABRICATIONS	December 22, 2008		
06 82 13	GLASS-FIBER-REINFORCED PLASTIC FABRICATIONS	December 22, 2008	February 10, 2009	FEB 12 2009
07 16 16	CRYSTALLINE WATERPROOFING	November 5, 2008		
07 21 00	THERMAL INSULATION	December 22, 2008		
07 22 00	ROOF AND DECK INSULATION	December 22, 2008		
07 26 00.13	VAPOR RETARDERS	November 5, 2008		
07 26 00.16	VAPOR BARRIERS	November 5, 2008		
07 27 26	FLUID-APPLIED MEMBRANE ROOFING AIR BARRIERS	December 22, 2008		
07 52 13	ATACTIC-POLYPROPYLENE-MODIFIED BITUMINOUS MEMBRANE ROOFING	December 22, 2008		
07 60 00	FLASHING AND SHEET METAL	December 22, 2008		
07 65 10	FLEXIBLE FLASHING/DRAINAGE SYSTEM	December 22, 2008		
07 72 13	MANUFACTURED CURBS	December 22, 2008		
07 72 33	ROOF HATCHES	December 22, 2008		
07 81 12	SPRAY APPLIED FIREPROOFING	December 22, 2008		
07 84 00	FIRESTOPPING	December 22, 2008		
07 91 00	PREFORMED JOINT SEALS	December 22, 2008		
07 92 00	JOINT SEALANTS	December 22, 2008		
08 11 00	METAL DOORS AND FRAMES	December 22, 2008		
08 14 00	WOOD DOORS	December 22, 2008		
08 31 00	ACCESS DOORS AND PANELS	December 22, 2008		
08 34 63	DETENTION DOORS AND FRAMES	December 22, 2008		
08 35 13.23	FOLDING FIRE DOORS	December 22, 2008		
08 41 13	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS	December 22, 2008	February 10, 2009	FEB 12 2009
08 42 26	ALL-GLASS ENTRANCES	December 22, 2008		
08 71 00	DOOR HARDWARE	December 22, 2008		
08 71 00 A	DOOR HARDWARE INDEX	December 22, 2008		
08 71 63	DETENTION HARDWARE	December 22, 2008		



Date:

2/20/2009

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

08 80 00	GLAZING	December 22, 2008	February 10, 2009	FEB 12 2009
08 88 53	SECURITY GLASS AND GLAZING	December 22, 2008		
08 91 00	LOUVERS	December 22, 2008		
09 06 00	SCHEDULE FOR FINISHES	December 22, 2008	February 10, 2009	FEB 12 2009
09 21 16	GYPSUM BOARD ASSEMBLIES	December 22, 2008		
09 23 13.13	ACOUSTICAL FINISH SYSTEM	December 22, 2008	February 10, 2009	FEB 12 2009
09 27 13	GLASS FIBER REINFORCED PLASTER FABRICATIONS	December 22, 2008	December 22, 2008	FEB 12 2009
09 30 00	TILING	December 22, 2008		
09 51 00	ACOUSTICAL CEILINGS	December 22, 2008	February 10, 2009	FEB 12 2009
09 65 00	RESILIENT FLOORING	December 22, 2008		
09 66 23.16	EPOXY TERRAZZO FLOORING	December 22, 2008	February 10, 2009	FEB 12 2009
09 67 23.13	EPOXY AGGREGATE FLOORING	December 22, 2008		
09 68 00	CARPETING	December 22, 2008		
09 72 00	WALL COVERING	December 22, 2008		
09 81 00	ACOUSTIC INSULATION	December 22, 2008		
09 84 13	FIXED SOUND-ABSORPTIVE PANELS	December 22, 2008		
09 91 00	PAINTING	December 22, 2008		
10 21 13.14	PHENOLIC TOILET COMPARTMENTS	December 22, 2008		
10 23 13	TOILET ACCESSORIES	December 22, 2008		
10 44 14	FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES	December 22, 2008		
10 75 00	FLAGPOLES	December 22, 2008		
10 80 00	OTHER BUILDING SPECIALTIES	December 22, 2008		
11 19 00	BASIC REQUIREMENTS FOR DETENTION SYSTEMS	December 22, 2008		
11 19 20	DETENTION ACCESSORIES	December 22, 2008		
11 19 50	DETENTION METAL FABRICATIONS	December 22, 2008		
11 33 00	RESIDENTIAL KITCHEN APPLIANCES	December 1, 2008		
11 52 13.13	FRONT PROJECTION SCREENS	December 22, 2008		
12 21 13.13	METAL HORIZONTAL LOUVER BLINDS	December 22, 2008		
12 21 26	BLACK-OUT BLINDS	December 22, 2008		
12 48 13	ENTRANCE FLOOR MATS AND FRAMES	December 22, 2008		
12 55 00	SECURITY FURNITURE	December 22, 2008	Feb. 10, 2009	FEB 12 2009
14 21 23	ELECTRIC TRACTION ELEVATORS	December 22, 2008	February 10, 2009	FEB 12 2009
14 24 23	HYDRAULIC ELEVATORS	December 22, 2008	February 10, 2009	FEB 12 2009
21 00 00	GENERAL FIRE SUPPRESSION PROVISIONS	December 22, 2008		
21 05 00	COMMON WORK RESULTS FOR FIRE SUPPRESSION	December 22, 2008		
20 05 13	COMMON MOTOR REQUIREMENTS FOR FIRE SUPPRESSION EQUIPMENT	December 22, 2008		
21 05 60	FIRE SUPPRESSION PIPING	December 22, 2008		
21 10 00	FIRE HOSE VALVE CABINETS		February 10, 2009	FEB 12 2009
21 31 13	ELECTRIC-DRIVE, HORIZONTAL FIRE PUMPS	December 22, 2008		
22 00 00	GENERAL PLUMBING PROVISIONS	December 22, 2008		
22 05 00	BASIC MECHANICAL MATERIALS AND METHODS	December 22, 2008		
22 05 13	COMMON MOTOR REQUIREMENTS FOR PLUMBING EQUIPMENT	December 22, 2008		
22 05 19	METERS AND GAGES FOR PLUMBING PIPING	December 22, 2008		
22 05 23	GENERAL DUTY VALVES FOR PLUMBING PIPING	December 22, 2008		
22 05 29	HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT	December 22, 2008		
22 05 33	HEAT TRACING FOR PLUMBING PIPING	December 22, 2008		
22 05 53	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT	December 22, 2008		



Date:

2/20/2009

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

22 07 00	PLUMBING INSULATION	December 22, 2008		
22 11 16	WATER DISTRIBUTION PIPING	December 22, 2008	February 10, 2009	FEB 12 2009
22 11 19	PLUMBING SPECIALTIES	December 22, 2008		
22 11 23	WATER DISTRIBUTION PUMPS	December 22, 2008		
22 11 24	DOMESTIC-WATER PACKAGED BOOSTER PUMPS		February 10, 2009	FEB 12 2009
22 13 16	DRAINAGE AND VENT PIPING	December 22, 2008		
22 33 00	ELECTRIC WATER HEATERS	December 22, 2008		
22 40 00	PLUMBING FIXTURES	December 22, 2008	February 10, 2009	FEB 12 2009
22 40 50	ELEVATOR SUMP PUMPS	December 22, 2008		
22 46 00	SECURITY PLUMBING FIXTURES		February 10, 2009	FEB 12 2009
23 00 00	GENERAL HVAC PROVISIONS	December 22, 2008		
23 05 00	COMMON WORK RESULTS FOR HVAC	December 22, 2008		
23 05 13	COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT	December 22, 2008		
23 05 14	MOTOR CONTROLLERS FOR HVAC EQUIPMENT	December 22, 2008		
23 05 19	METERS AND GAGES FOR HVAC PIPING AND DUCTWORK	December 22, 2008		
23 05 23	GENERAL DUTY VALVES FOR HVAC PIPING	December 22, 2008		
23 05 29	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT	December 22, 2008		
23 05 33	HEAT TRACING FOR HVAC PIPING	December 22, 2008		
23 05 48	VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT	December 22, 2008		
23 05 53	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT	December 22, 2008		
23 05 93	TESTING, ADJUSTING, AND BALANCING	December 22, 2008		
23 07 00	HVAC INSULATION	December 22, 2008		
23 08 00	MECHANICAL COMMISSIONING REQUIREMENTS		FEB 12 2009	FEB 12 2009
23 09 00	CONTROL SYSTEMS EQUIPMENT	December 22, 2008	February 10, 2009	FEB 12 2009
23 09 93	SEQUENCE OF OPERATION	December 22, 2008		
23 21 13	HYDRONIC PIPING	December 22, 2008		
23 21 23	HVAC PUMPS	December 22, 2008		
23 23 00	REFRIGERANT PIPING AND CONDENSATE DRAINS	December 22, 2008		
23 25 00	CHEMICAL WATER TREATMENT	December 22, 2008		
23 31 13	METAL DUCTWORK	December 22, 2008		
23 31 16	FIBROUS GLASS DUCT SYSTEMS	December 22, 2008		
23 33 00	DUCT ACCESSORIES	December 22, 2008		
23 34 23	POWER AND GRAVITY VENTILATORS	December 22, 2008		
23 36 00	AIR TERMINALS	December 22, 2008	February 10, 2009	FEB 12 2009
23 37 13	DIFFUSERS, REGISTERS, GRILLES AND LOUVERS	December 22, 2008		
23 64 16	WATER-COOLED CENTRIFUGAL CHILLERS	December 22, 2008		
23 65 00	FACTORY-FABRICATED COOLING TOWERS	December 22, 2008		
23 73 13	CENTRAL-STATION AIR-HANDLING UNITS	December 22, 2008		
23 81 23	COMPUTER-ROOM AIR-CONDITIONING UNITS	December 22, 2008		
23 82 39	UNIT HEATERS	December 22, 2008		
26 05 00	COMMON WORK RESULTS FOR ELECTRICAL	December 22, 2008		
26 05 19	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	December 22, 2008		
26 05 26	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	December 22, 2008		
26 05 29	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	December 22, 2008		
26 05 33	RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS	December 22, 2008		
26 05 36	CABLE TRAYS FOR ELECTRICAL SYSTEMS	December 22, 2008		
26 05 43	UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS	December 22, 2008		



Date: 2/20/2009

EXHIBIT B-4 - BID PACKAGE FOUR - SCHEDULE "A" - ATTACHMENT "B"

CONTRACT DOCUMENT LIST

Project Name: Augusta Richmond County Judicial Center

26 05 53	IDENTIFICATION FOR ELECTRICAL SYSTEMS	December 22, 2008		
26 08 00	ELECTRICAL COMMISSIONING		FEB 12 2009	FEB 12 2009
26 09 23	LIGHTING CONTROL DEVICES	December 22, 2008		
26 09 43	NETWORK LIGHTING CONTROLS	December 22, 2008		
26 22 00	LOW-VOLTAGE TRANSFORMERS	December 1, 2008		
26 24 13	SWITCHBOARDS	December 22, 2008	February 10, 2009	FEB 12 2009
26 24 16	PANELBOARDS	December 22, 2008	February 10, 2009	FEB 12 2009
26 27 26	WIRING DEVICES	December 22, 2008		
26 28 13	FUSES	December 22, 2008		
26 28 16	ENCLOSED SWITCHES AND CIRCUIT BREAKERS	December 22, 2008		
26 32 13	ENGINE GENERATORS	December 22, 2008	February 10, 2009	FEB 12 2009
26 36 00	TRANSFER SWITCHES		February 10, 2009	FEB 12 2009
26 41 13	LIGHTNING PROTECTION FOR STRUCTURES	December 22, 2008		
26 43 13	TRANSIENT-VOLTAGE SUPPRESSION FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS	December 22, 2008	February 10, 2008	FEB 12 2009
26 51 00	INTERIOR LIGHTING	December 22, 2008		
26 56 00	EXTERIOR LIGHTING	December 22, 2008		
27 05 00	COMMON WORK RESULTS FOR COMMUNICATIONS	December 22, 2008		
27 11 00	COMMUNICATIONS EQUIPMENT ROOM FITTINGS	December 22, 2008		
27 13 00	COMMUNICATIONS BACKBONE CABLING	December 22, 2008		
27 15 00	COMMUNICATIONS HORIZONTAL CABLING	December 22, 2008		
27 41 33	MASTER ANTENNA TELEVISION SYSTEM	December 22, 2008		
28 00 10	SECURITY GENERAL	December 22, 2008		
28 00 90	SECURITY COMMISSIONING		February 10, 2009	FEB 12 2009
28 10 00	SECURITY SYSTEMS	December 22, 2008	February 10, 2009	FEB 12 2009
28 11 00	CLOSED CIRCUIT TELEVISION SYSTEMS	December 22, 2008		
28 31 11	DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM	December 22, 2008		
31 10 00	CLEARING AND GRUBBING	September 15, 2008		
31 20 00	EARTHWORK	September 15, 2008		
31 23 00	EXCAVATING, TRENCHING AND BACKFILLING FOR PIPE LINES	September 17, 2008		
31 25 00	EROSION, SEDIMENTATION & POLLUTION CONTROL MEASURES	September 17, 2008		
31 31 16	TERMITE CONTROL	December 22, 2008		
31 63 16	AUGER CAST GROUT PILES	December 22, 2008	February 10, 2009	FEB 12 2009
32 11 23	GRADED AGGREGATE BASE COURSE	December 22, 2008		
32 12 16	ASPHALT PAVING	September 15, 2008		
32 12 43	FLEXIBLE POROUS PAVEMENT	December 22, 2008		
32 14 16	BRICK AND LIMESTONE UNIT PAVING	December 22, 2008		
32 16 13	CONCRETE CURBS AND GUTTERS	September 15, 2008		
30 31 17	VEHICULAR HIGH SECURITY GATES	December 22, 2008	February 10, 2009	FEB 12 2009
32 40 00	CONCRETE CONSTRUCTION - CIVIL	September 15, 2008		
32 80 00	IRRIGATION	December 22, 2008		
32 90 00	PLANTS	December 22, 2008		
32 92 23	SODDING	December 22, 2008		
33 10 00	WATER UTILITIES	September 17, 2008		
33 30 00	SANITARY SEWERAGE UTILITIES	September 15, 2008		
33 40 00	STORM DRAINAGE UTILITIES	September 15, 2008		
END OF SPECIFICATIONS				

Otis Elevator Company

North American Area
1575 Northside Drive NW
Suite 460
Atlanta, GA 30318



Otis

A United Technologies Company

January 31, 2009/Revised February 18, 2009

Mr. Josh Spencer C/O
The Potts Company
981 East Freeway Drive
Conyers, GA 30094

Reference: Augusta Richmond County Judicial Center
Augusta, GA 30911

Dear: Josh

We are pleased to provide you with our proposal to furnish and install:

Two (2) **4000lbs** Otis Gen2 series elevator system (Public Passenger Elevators # 1 & 2)
One (1) 3500lbs Otis Gen2 series elevator system (Judges Elevator # 3)
One (1) 4500lbs Otis LVM series holed elevator system (Prisoner Elevator # 4)
One (1) 4500lbs Otis LVM series holed elevator system (Prisoner Elevator # 5)

as described in this proposal for the sum of

Seven Hundred Seventy Thousand Dollars and No Cents (\$ 770,000.00)

Please take note of the following sections, which are a part of this proposal:

- **Scope of Work**
- **Value Engineering Options**
- **General Clarifications**
- **Job Specific Clarifications/Exceptions to Specification**
- **Terms and Conditions**
- **Preparatory Work by Others**

This quotation is valid for thirty (30) days from the date of submission. Otis predicates the quote upon timely furnishing of a completed hoistway for uninterrupted use. In addition, if delivery material cannot be taken at the jobsite by 12/31/2009 or the installation of the elevators is delayed beyond 12/31/2010 you will be responsible for any labor and material increases that have occurred.

I have included 16 hours per elevator allowance for coordination of trades inside the hoistway as well as 60 days temporary use of one elevator for construction purposes in my base bid. We appreciate having the opportunity to provide you with our proposal on this project and look forward to working with you and your project team. Please call me at (404) 557-7086 with any questions.

Sincerely,

Jeff Nedblake
Account Executive-New Equipment

SCOPE OF WORK

(2) Passenger Elevators

Elevator Designation	# 1 & 2 Public Passenger Cars
Otis Model	<u>Otis Gen2 series elevator system; GN24000</u> (3500 specified)
Capacity and Speed	<u>4000lbs</u> @ 350 feet per minute
Rise	50' 8"
Number Of Stops And Openings	Four (4): Four (4) front openings only.
Minimum Clear Hoistway	9' 4" wide x 7' 10" deep
Clear Car Inside Dimensions	<u>7' 8"</u> wide x 5' 5" deep
Minimum Clear Overhead	17' 2"
Minimum Clear Pit Depth	5' 6"
Control Room/Space	Located adjacent to # 2 hoistway at 4 th landing.
Operation	Duplex Elevonic® Microprocessor control
Power Supply	480 Volts, 3 Phase AC, 60 Hertz
Cab Enclosure	<u>Cab shell to specifications except in lieu of 10' high cab to canopy we provide a 9' 7" high cab with @ 8' 11 1/2" height under ceiling. 8' high 48" Center opening-car doors</u> with Satin Stainless finish. Included is a \$15,000.00 per elevator allowance for custom designed ceiling, wall panels and handrails.
Cab Flooring	Furnished and installed by others
Hoistway Entrances	<u>4'</u> wide x 8' 0" high Center-opening doors with Satin Stainless finish. Extruded aluminum sills.
Signals	<u>Dual Otis Classic line illuminated car operating panel</u> contained in swing front returns with vandal resistant buttons with digital position indicator, Otis Classic line hall fixtures with stainless steel faceplates and vandal resistant push buttons per specifications.

SCOPE OF WORK

(1) Passenger

Elevator Designation	(1) Passenger – Judges Elevator # 3
Otis Model	Otis Gen2 series elevator system ; GN23500
Capacity and Speed	3500lbs @ 350 feet per minute
Rise	50' 8"
Number Of Stops And Openings	Four (4): Four (4) front openings only.
Minimum Clear Hoistway	8' 4" wide x 7' 10" deep
Clear Car Inside Dimensions	6' 8" wide x 5' 5" deep
Minimum Clear Overhead	17' 2"
Minimum Clear Pit Depth	5' 6"
Control Room/Space	Located either.
Operation	Simplex Elevonic® Microprocessor control
Power Supply	480 Volts, 3 Phase AC, 60 Hertz
Cab Enclosure	Cab shell with an 8' high cab with @ 7' 5" height under ceiling. 7' high Side Slide doors with Satin Stainless finish. Standard Wilsonart Plastic Laminate wall panels and fluorescent lighting included as are handrails on side and rear walls.
Cab Flooring	Furnished and installed by others
Hoistway Entrances	3' 6" wide x 7' 0" high. Side-opening door. Satin Stainless finish. Extruded aluminum sills.
Signals	Single Otis Classic line illuminated car operating panel contained in swing front returns with vandal resistant buttons with digital position indicator, Otis Classic line hall fixtures with stainless steel faceplates and vandal resistant push buttons per specifications.

SCOPE OF WORK

(2) Simplex Service Elevators

Elevator Designation	Prisoner Elevators # 4 & # 5
Otis Model	Otis LVM series holed elevator system Hydraulic; LVM4500
Capacity and Speed	4500lbs @ 150 FPM
Rise	32' 8"
Number Of Stops And Openings	Three (3): Three (3) front openings only.
Clear Hoistway	7' 5" wide x 9' 8" deep
Clear Car Inside Dimensions	5' 8" wide x 7' 11 deep
Clear Overhead	12' 8"
Clear Pit Depth	4' 0"
Machine Room Location	Directly adjacent to hoistway at lowest floor landing
Operation	Simplex microprocessor control
Power Supply	480 Volts, 3 Phase AC, 60 Hertz
Motor Horsepower	50 HP
Cab Enclosure	Otis Series 3 Service RIGID steel cab shell walls. and rear walls. Full Satin stainless front return, header and satin stainless cab door. Aluminum threshold. 7' 0" high cab doors. 8' 0" high cab. 7' 4 1/2" height under ceiling. Special lighting to specification included. Otis DH-154 (1-1/2") round tubular handrail provided on the sides and rear of the car enclosure with satin stainless steel finish. Bumper Rail included that is 8" tall.
Cab Flooring	Furnished and installed by others
Hoistway Entrances	4' 0" wide x 7' 0" high. Two-speed single-slide door. Satin Stainless finish. Extruded aluminum sills.
Signals	Otis Classic line illuminated car operating panel contained in swing front return with vandal resistant buttons with digital position indicator, Otis Classic line hall fixtures with stainless steel faceplates and vandal resistant push buttons.

Value Engineering Options

1. Provide the passenger cars as 3500# duty with side slide doors and single car operating panel in lieu of our proposed 4000# duty, center opening doors and dual car operating panels ---Delete \$20,000.00 (Twenty Thousand Dollars) from our proposal price.
2. Delete the Security Control Panel and Fire Fighter Control Panel from the project Specifications that are listed on page 7 and 8 of the traction elevator spec under additional features section and signal fixture section. ----Deduct \$6,000.00 (Six Thousand Dollars) from our Proposal Price.
3. Delete the requirement for the Elevator Management System/Machine Room Display Unit that is specified on page 20 of the traction elevator specification under section 2.12.C as well as being referenced in the last sentence on page 11 of traction specification, section 2.04 Item F and on page 13 under section 2.05.E.6---monitoring system interface and then again in the hydraulic specification on page 10 under section 2.05.D item 6. Deduct \$10,000.00 (Ten Thousand Dollars) from our proposal price.
4. Delete the requirement for the following items to be located in the locked service cabinet on all traction elevators that is found on page 18 of the traction specification (section 2.08.Q.11) : Item E (constant pressure test button for emergency lighting...we will provide it but on car top, not in locked service cabinet), Item G (card reader override switch – delete in its entirety) and Item I (switch to select either voice , tone or chime – delete in its entirety) in addition Delete the requirement for the following items to be located in the locked service cabinet on all elevators that is found on page 15 of the hydraulic specification (section 2.08.Q.11) : Item E (constant pressure test button for emergency lighting...we will provide it but on car top, not in locked service cabinet), Item H (switch to select either voice , tone or chime – delete in its entirety) and Item I (car lighting dimmer switch). Deduct \$9,000.00 (Nine Thousand Dollars from our Proposal price)

General Clarifications

1. Our bid is based on manufacturing lead-time of 12 weeks after approvals.
2. Our bid is based on providing our standard components that most closely match that specified. The specifications include items which vary slightly from our standard manufacturing processes. Our quotation is based on standard Otis performance times, heat release/HP amps and ride quality performance/ISO perception filter measurements. All Otis Hoistway door frames are bolted/lapped. Our proposal is based on providing our Otis fixtures, Braille, tactile markings and fonts. Car operating panel including button configuration shall be per our standard design.
3. Where applicable, powder coated finishes and metal finishes shall be from Otis standard manufacturing process and color selection. We are now using a powder coated finish where baked enamel is required which has a higher resistance to corrosion, chemicals, heat abrasion and impact over the traditional baked enamel finish. Plastic laminate if applicable shall be from our standard selections and edging, Wilson Art Design Group 1, (approx. 250 choices).
4. Warranty is for Twelve (12) months after acceptance of elevator by owner. The elevator contractor's acceptance is conditional on the understanding that their warranty covers defective material and workmanship. The guarantee period shall not extend longer than one (1) year from the date of completion or acceptance thereof by beneficial use, whichever is earlier, of each elevator. The guarantee excludes ordinary wear and tear or improper use, vandalism, abuse, misuse, or neglect or any other causes beyond the control of the elevator contractor and this express warranty is in lieu of all other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. This express warranty is in lieu of all other warranties, expressed or implied, including any warranty or merchantability or fitness for a particular purpose.
5. Contract includes Twelve (12) months of full maintenance for each elevator after acceptance of elevator by owner including 24 hour emergency callback service.
6. Our proposal is based on Otis providing a single piece plunger and cylinder. We are assuming we will have access to set the piston and cylinder through the roof in a single section.
7. The hydraulic elevator cylinder wells will be provided by us based upon excavation through normal soil or clay, which can be removed by manual digging or with a standard truck-mounted regular drilling unit. If during excavation, it is determined that a casing must be provided to retain the walls of the well, we will provide a casing as required. Removal of excavation spoils deposited at the elevator pit will not be our responsibility.
8. If any physical obstruction or hindrance is encountered below the surface of the ground, including but not limited to boulders, rock, gravel, wood, metal, pilings, water, sand, quicksand, caves, public utilities, or any other foreign material, you will provide us with written authorization to proceed with excavation utilizing any required special excavation equipment. ~~There will be an additional charge of \$200 per foot for drilling through rock/ledge.~~ **(We have included firm price drilling in lieu of the \$200 per foot rock clause.)** We will be compensated at our current billing rates on a time and material basis for the additional costs incurred subsequent to encountering the physical obstruction or hindrance, including costs of the special excavation equipment. Protection for the installed hydraulic elevator cylinder shall be provided at no cost to us. You must dispose of spoils from well hole drilling.
9. The following close-out documents will be provided: our standard owner's information manual, our standard final layout/installation drawings, and our standard warranty. Unless otherwise specified, 2 copies of each will be provided. Additional copies are available at \$100 per set.

Project Specific Clarifications/Exceptions to Specification

1. All Equipment is provided for Seismic Zone 1.
2. Our proposal includes providing the 2 passenger cars as 4000# with center opening doors and dual car operating panels. This is an upgrade to the specification and we have provided an VE deduct to provide these cars as specified : 3500 # with side slide doors and single car operating panel.
3. We are unable to provide a 10' canopy for the passenger elevators. We will provide a 9' 7" canopy height for elevators 1 & 2 in lieu of the 10' canopy specified.
4. Regarding Car Performance, section 2.03 on page 9 of the traction specification our equipment performance varies slightly. Item D we open our doors in 2.05 vs. 2.0 seconds and we close our doors in 2.9 seconds vs. 2.4 seconds.
5. No handheld/laptop service tool is included in proposal, nor required for other Elevator Companies to service the Otis Equipment proposed for this project.
6. Hoistways, Pits, Overheads and machine/control rooms must be sized to suit Otis minimum requirements.
 - Public Cars # 1 & 2 will need 17' 2" total clear overhead, 5' 6" deep pits and the hoistway width and depth are ok for either 3500 or 4000# cars.
 - Judges Elevator # 3 will need 15' 6" total clear overhead, 5' 6" deep pits and the hoistway will be need to be deepened by 1" to 7' 10" deep vs. 7' 9" shown on plans. Width can be shrunk to 8' 4".
 - Each Prisoner Elevator will need 12' 3" total clear overhead, 4' deep pits and the hoistways are ok W X D although we prefer 7' 5" W x 9' 8" D.
 - I believe the Traction Elevator Control Room # 441 is too small to accommodate Elevators # 1, 2 & 3. I believe that # 3 Judges Elevator control room could be located in the same room on the 1st floor as the # 4 Prisoner Elevator (room # 126.02). My suggestion is to enlarge the room # 441 to accommodate all 3 traction elevators.....Our proposal cost includes either option with the understanding that the total wire run distance from the elevator controller to the hoist machine/ IMBS which is located in the top of the hoistway cannot exceed 150'.

Terms and Conditions

1. This proposal is submitted with the understanding that any contract resulting therefrom will be subject to review & mutual acceptance of all terms and conditions contained therein. It is conditioned on neither party being liable to the other for any loss, damage or delay due to any cause beyond either party's reasonable control, including but not limited to, acts of government, strikes, lockouts, other labor disputes, fire, explosion, theft, water damage, flood, earthquake, riot, civil commotion, war, malicious mischief or act of God. Under no conditions, shall either party be liable for special, indirect, liquidated, or consequential damages in contract, tort, including negligence, warranty or otherwise, notwithstanding any indemnity provisions to the contrary. Notwithstanding any provision in any contract document to the contrary, our acceptance is conditioned on being allowed additional time for the performance of the Work due to delays beyond our reasonable control. Subcontractor agrees to submit to Non-Binding Arbitration by the American Arbitration Association but does not waive its rights to pursue other remedies available at law & equity.
2. It is agreed that Otis shall not be responsible for any Liquidated Damages. Should the contract documents require provisions for Liquidated Damages, our bid is contingent upon review of the schedule to assure we can achieve the desired date with our standard lead times.
3. In the event Contractor does not accept Otis Standard Commercial Terms and the Otis Acknowledgement Letter, contract price may be altered to reflect any additional burden of risk to Otis Elevator.
4. We agree to provide evidence of insurance coverage but cannot name others as additional insured or waive our rights of subrogation. All insurance coverage afforded to you or others shall terminate upon final acceptance of the work. If "Owners and Contractors Protective Insurance" is required in addition to our standard Certificate of insurance add (\$8.00 per \$1000). If the project is covered by an Owner/Contractor Controlled Insurance Program ("OCIP/CCIP), Otis agrees to participate provided it is at no cost to Otis and subject to review and acceptance of the proposed program. The OCP obligation is waived and any obligation to name others as Additional Insured shall be for off-site operations only.
5. Otis will provide surety bond(s) in the form provided by Otis' Surety at no cost to Otis. This is in lieu of participation in any type of surety wrap-up or Subguard program. If payment and performance bonds are requested of us, please add (\$8.00 per \$1000) of resulting contract amount.
6. Security for elevator material delivered to the jobsite is the responsibility of the Contractor. The Contractor is responsible for all costs to replace any damaged, stolen or missing elevator equipment. Otis will not be responsible for deductibles on Builder's Risk insurance policies. Otis will provide a change order, police report, and affidavits as needed to substantiate the claim. Otis will not procure replacement equipment until a signed change order is received.
7. If you are not ready to accept delivery of the material on the date the machine room is to be ready, you shall give us sufficient notice of a local point where you will accept delivery, and be responsible for all monthly storage fees. An extra charge will be assessed for any double handling or re-transportation of elevator material required by the general contractor/owner or agent thereof.
8. Our proposal includes our Remote Elevator Monitoring (REM[®]) feature. This feature will be installed during the original installation for the duration of the warranty/maintenance period. Upon expiration of this service period, if the owner elects not to continue maintenance with Otis, it is understood that this REM unit will be removed by Otis from the jobsite and remain in our possession.

9. Otis will not supply information such as internal Otis manuals, manufacturing drawings or source code. Any counters, meters, tools, remote monitoring devices, communication devices, or other such equipment that we may use or install to deliver service under this proposal and any resulting contract remains our property, solely for the use of our employees. Such equipment is not considered as part of the elevator. If the contract or subsequent maintenance service is terminated for any reason, we will be given access to the premises to remove such equipment, including the resident software, at our expense. All software supplied with the elevator is licensed to you or your successors but only for use with, and for operation of this elevator.
10. In the event the transactions contemplated hereunder are restricted by U.S. Government or other applicable laws and regulations, including but not limited to those designating certain parties as "denied", "restricted" or similarly ineligible to do business with U.S. entities, this agreement will be deemed void and Customer shall pay Otis all sums owed for the goods and services that may have been provided up to such time according to the rates contained in this agreement.
11. Our quoted price is based on an initial payment equaling fifty percent (50%) of contract award. This amount, PLUS a fully executed subcontract must be received prior to releasing equipment for manufacturing or scheduling well-hole drilling. Please see Schedule of Values Below.

Augusta Richmond County Judicial CTR		
Contract Number	TBD	
Base Contract Amount		\$770,000
Number of units		5
Due Date	Description	Value
Upon Issuance of PO/Contract	50%	\$ 385,000.00
Upon Delivery of Material	70% of Remaining Balance	\$ 269,500.00
Upon Substantial Completion of 1st elevator	1/5 of remaining balance	\$ 23,100.00
Upon Substantial Completion of 2nd elevator	1/5 of Remaining Balance	\$ 23,100.00
Upon Substantial Completion of 3rd elevator	1/5 of Remaining Balance	\$ 23,100.00
Upon Substantial Completion of 4th elevator	1/5 of Remaining Balance	\$ 23,100.00
Upon Substantial Completion of 5th elevator	1/5 of Remaining Balance	\$ 23,100.00

12. Monthly progress payments shall include the value of work performed and materials stored on or offsite. You agree to make progress payments for any work performed prior to final execution of the contract and/or the submission of any required documents other than those required for payment applications.

13. Final payment shall be due thirty (30) days after final acceptance of the elevator installation, otherwise all warranties and New Installation Service (NIS) shall be suspended. We must be paid ninety-five percent (95%) of the final contract price prior to scheduling the state inspection and turnover of the elevator equipment.
14. Otis will not agree to any language referencing or implying "pay when paid". This contract is between Otis Elevator and Contractor. Payment schedule shall not be contingent upon Contractor's ability to be paid by others or any other factor or event not described above.
15. Fully executed change orders must be received prior to Otis performing any additional work outside the scope of the base contract. Otis will not accept oral or written "directives to proceed" without a fully executed and agreed-upon change order.
16. All change orders must be approved prior to scheduling final inspection of elevator.
17. Change orders will be stated price (lump sum). In the event a stated price cannot be calculated, hourly rates for Time and Material (T/M) are below.

	<u>Per Man</u>
Regular time hourly rate:	<u>\$105.00</u>
Overtime hourly rate:	<u>\$210.00</u>

18. Contractor will communicate to Otis supervision who the signatories and/or titles, roles and positions are which are authorized to sign time tickets on-site that will be used as support documentation for T/M change orders. Work cannot commence or continue until a designated signatory signs the document.
19. All current inspection fees are included for a final inspection. Should re-inspection be required because of work that is not our responsibility, you will be responsible for the cost of re-inspection and remobilization for Otis personnel.
20. If we are requested to operate the elevator for other trades or perform labor outside of the scope of this work, it shall be performed in accordance with our normal hourly labor rates.
21. Should any elevator be required for use before substantial completion, others shall provide without expense to Otis Elevator Company, if required, temporary car enclosures, requisite guards or other protection for elevator hoistway openings, mainline switch with wiring, necessary power, signaling devices, lights in car and elevator operators together with any other special labor or equipment needed to permit this temporary usage.
22. Otis Elevator Company shall be reimbursed at our standard billing rates time and material expenses associated with the additional inspection and clean-up required for temporary use. Otis Elevator Company will be reimbursed at a rate of \$45.00 per day per elevator (traction elevator) and \$30.00 per day per elevator (hydraulic elevator) for temporary usage of the elevator system. It is agreed that the general contractor will be invoiced directly by the state for its governing re-inspection fee for temporary usage of the elevator(s). Otis shall also be reimbursed for any additional labor and material that is not part of the permanent elevator installation that is required to provide temporary elevator service. In addition, Otis Elevator Company's temporary acceptance form shall be executed before any elevator is placed in temporary service, and the cost of power and operation, maintenance of the equipment and rehabilitation of equipment shall be paid for by others.
23. When an elevator is used for temporary service, the completion date may, as a result of the temporary service, be extended by Otis Elevator Company. Otis Elevator Company shall provide notice of the extension at the time the elevator is made available for the temporary service.
24. You agree to pursue and schedule the work by other trades in a timely manner so as to not interrupt our work. Should our crew(s) have to de-mobilize from the job due to delays in work by others not in our contract, we shall be entitled to a re-mobilization charge of Two-Thousand (\$2,000) Dollars. We shall also extend the stated schedule to the extent that we are delayed.

Preparatory Work By Others

The following items must be performed or furnished at no cost to Otis Elevator Company ("Otis") by the Owner or General Contractor or their agents in accordance with governing codes. The price and installation schedule of Otis Elevator Company is based on these job-site conditions existing at the beginning and during installation of the elevator equipment. Please refer to our Installation Handbook for details and dimensions for the following items.

All work to be performed per the latest revision of the applicable national code and/or local code.

General Prep/Work

1. Provide any cutting, including cutouts to accommodate machine-room piping, hall-signal fixtures, patching, and painting of walls; floors, or partitions together with finish painting of entrance doors and frames, if required.
2. Provide the use of a crane to place the hydraulic elevator cylinder assemblies in the hoistway prior to enclosing the top of the hoistway. For the Gen2 Traction elevators, provide the use of a crane suitable for hoisting a load of up to 3500 lbs. (1588 kg.) for hoisting the integrated machine and bedplate structure and the controller into place prior to enclosing the hoistway. Provide adequate OSHA approved fall protection at the opening of the top of the hoistway on the roof. Fall protection must be adequate for two people and be in place prior to the hoisting of elevator equipment.
3. Provide secure, on-site storage area for elevator equipment as follows: dry and enclosed, provides roll-able access to the elevator hoistway at the ground level, located within 100 feet of the hoistway and is larger than 25 x 20 feet (7620 mm X 6096 mm) per unit. Any warranties provided by Otis for elevator equipment are null and void if equipment is stored in a manner other than a dry enclosed building structure.
4. We require suitable tractor-trailer access to the building for unloading of material. In addition, we need rollable access from unloading point to from storage and storage to hoistway area.
5. If you are not ready to accept delivery of the material on the date the machine room is to be ready, you shall give us sufficient notice of a local point where you will accept delivery, and be responsible for all monthly storage fees. An extra charge will be assessed for any double handling or re-transportation of elevator material required by the general contractor/owner or agent thereof.
6. Provide sufficient on-site refuse containers for the proper disposal of elevator packaging material. Should sufficient refuse containers not be provided, disposal of packaging material shall become the responsibility of the owner.

Hoistway and Pit Prep/Work

7. Prior to the start of installation, provide a dry, properly framed, enclosed and vented hoistway in accordance with all applicable codes. This includes that One front entrance wall, at the main landing, is not to be constructed until after all elevator material is located in the hoistway. Remaining front entrance walls are not to be constructed until after door frames and sills are in place. If front walls are poured concrete bearing walls, rough openings are to be provided to accept entrance frames and filled in after frames are set. Rough opening size per Otis layouts. Prior to the elevators being turned over, all entrance walls must be installed and rough openings filled in complete.
8. Provide a clear plumb hoistway with variations from the size shown on the Otis layout not to exceed 1" (25mm) at the first 20 floors and 1/32" (8mm) increase for each additional floor up to a maximum of 2" (52mm) and not less than the clear dimensions shown on the Otis layout.
9. If the floor-to-floor height exceeds the maximum bracket spacing allowed by Otis equipment, Otis requires some form of steel support to properly attach our guide rail brackets. The maximum allowed bracket spacing is indicated in the rail force and bracket detail table on elevator layout. Otis agrees to provide guidance on this matter at the appropriate time. If rail bracket embedded plates or inserts are

provided by Otis they shall be installed by others in accordance with Otis documentation and instructions. You must furnish adequate rail-bracket supports and bracket spacing as required by governing code, from pit floor to top of hoistway. For steel or wood frame construction, adequate backing for a rail bracket to be installed not less than 10'3" (3225 mm) or more than 11'3" (3429 mm) from the top landing. Furnish separator beams where required. Rail-bracket attachment supports must be exposed and flush with the clear hoistway line. If rail-bracket inbeds or inserts are provided by Otis, they shall be installed by others in accordance with Otis' documentation and instruction.

10. For Hydraulic Elevators furnish a dry pit reinforced to sustain vertical forces on car rails and impact loads on cylinder head(s) and buffer(s). The pit must be dry and clean. The elevator pit may not have a floor drain/sump pump connected directly to a storm drain or sewer. Otis recommends that the owner verify the system is in compliance with all applicable laws. For Traction Elevators Provide a pit floor designed to sustain vertical forces (forces based on safety impact) on car and counterweight rails as shown in the rail force and bracket spacing table and impact loads on car and counterweight buffers as shown in the pit plan view of the elevator layout. The pit must be dry and clean. The elevator pit must have a floor drain or sump pump to prevent the accumulation of water, but not connected directly to a storm drain or sewer. The floor drain or sump pump should lead to a holding tank rather than a sewer or uncontained area. Location to be coordinated with Otis to avoid all elevator components and access areas. Otis recommends that the owner verify the drain or sump pump system is in compliance with all applicable laws.
11. Provide and install a fixed vertical iron ladder in each pit as required by governing code and located per Otis layouts or as coordinated with Otis personnel. Ladder width and projection from wall per local code. If pit depth is greater than 9' 10" (3000mm) [13' 9" with no floor below bottom landing], a pit access door is required.
12. For purposes of installing the IMBS system and belting up the Gen2 Elevators, it is a requirement that you construct for Otis a temporary work platform at the top landing of the hoistway(s). The furnishing, installation, and removal of this temporary platform is to be provided by others in accordance with governing codes and regulations and is not included in the elevator's scope of work.

The platform is to be located at the top landing of the hoistway(s) and shall be securely fastened to the building structure. The platform shall be designed for not less than 50-psf uniform live load and a concentrated point load of 500 lb.

The platform shall be installed complete with guardrails at the perimeter of any opening in the platform. The working surface of the platform shall have within easy reach secure anchorage points for attachment of fall arrest lifelines, lanyards, or deceleration devices.

The design and installation of the temporary platform shall be in accordance with the applicable provisions of all federal, state and local codes and regulations including but not limited to the latest amendments of the American National Standards Institute, Inc. (ANSI), the Occupational Safety and Health Act (OSHA), and the State Building Code in effect in the state in which the elevator is being installed. Otis has a temporary work platform design that meets these requirements. Request a copy of Otis drawing AAA27CR for details.

13. Install a permanent light fixture in each elevator pit with illumination of not less than 100 lx (10 fc) as measured at the pit floor. The light bulb(s) shall be externally guarded to prevent contact and accidental breakage. The light switch shall be so located as to be accessible from the pit ladder or access door.
14. If pit depth is greater than 8' 3" a platform for accessing the equipment on the underside of the car is required. The platform shall:
 - a. Be coordinated with Otis personnel to interface with Otis' elevator equipment.
 - b. Maintain clearances and refuge spaces as defined in all applicable codes.

- c. Be equipped with OSHA compliant guardrails when a fall hazard exists.
 - d. In seismic risk zone, comply with all applicable building code requirements to restrain it due to ground acceleration during an earthquake
 - e. Be designed and installed to support without permanent deformation on the following loads: Minimum of 80 lb./ft² (390kg/390kg/m²) evenly distributed over the entire servicing platform area, minimum of 225 lb. (100kg) concentrated load on any 3 in.² (2000 mm²) area.
15. Glass used in hoistway construction must block 98% or more of incident full-spectrum ultraviolet radiation for the full height of the hoistway.
16. For the Holed Hydraulic Elevators you must provide pit-floor cutout 30" x 30", location as required by Otis layout, to accommodate cylinder assembly. Provide patching of pit floor after setting of cylinder assembly to accommodate a watertight condition. Standard water connections (if necessary) for equipment and outlet line must be provided for discharging excess water while sinking cylinder well. Furnish water for sinking cylinder well at no cost to Otis. You must provide removal of spoils from well-hole excavation. Hydraulic Oil lines will be run above ground.
17. For protection from falls and as required by OSHA, (OSHA)1926.502 B) (1-3) a freestanding removable barricade at each hoistway opening at each floor. Barricades shall be 42" (1067mm) high, with mid-rail and kick board, and withstand 200 lbs. of vertical and horizontal pressure.
18. For protection from falling objects and as required by OSHA (OSHA) 1926.502(j) hoistway protection from falling debris and other trades materials by either full entrance screening/mesh in front of all elevator entrances or by providing secured/controlled access to all elevator lobbies (lock and key) with posted Notice "only elevator personnel beyond this protection." These can be integrated systems. Hoistway barricades and screening shall be constructed and removed by others.
19. Provide a properly framed and enclosed legal hoistway in accordance with all applicable codes that is ready for uninterrupted use by Otis. Specifically, provide a hoistway that complies with the following requirements: Dry, Plumb within +1 inch and -0 inches, Vented as required by governing code authority, Inserts, imbeds or rail fastening installed, Steel safety beam in place positioned side to side as shown on Otis layout, Otis/OSHA compliant barricades in place. Freestanding and removable barricades at each hoistway opening at each floor. Barricades shall be 42" high, have center board and kick board, and withstand 200lbs. of side pressure.
20. Furnish hoistway walls designed and constructed in accordance with the required fire rating (including those places where elevator fixture boxes and rail-bracket fastenings penetrate the hoistway walls). The hoistway walls are to include adequate fastening to hoistway entrance assemblies. One front entrance wall, at the main landing, is not to be constructed until after all elevator material is located in the hoistway. Remaining front entrance walls are not to be constructed until door frames and sills are in place. If front walls are poured concrete weight bearing walls, rough openings are to be provided to accept entrance frames and filled in after frames are set. Rough opening size per Otis layouts.
21. Provide plumb vertical surfaces for entrance-sill supports, one above the other, and square with the hoistway. For 4'-0" (1220 mm) and 4'-6" (1372 mm) two-speed door arrangements on 4500 lb. (2041 kg) and 5000 lb. (2270 kg) cars a hoistway attachment point is required for an auxiliary support bracket under the sill assembly in the center of the clear door opening. Finished floor and grout, if required, between door frames to sill line. A horizontal support is to be provided 12" (305 mm) above the clear opening at each landing to support the doorframe assembly.
22. Provide and install a safety beam capable of withstanding a maximum net live load of 5000 lb. (2268 kg). Otis requires 2" clear above the beam. Beam must be removed before car is placed in operation if it infringes on required clearance.

Machine Room

23. Provide a suitable control room(s)/space(s) with access and ventilation in accordance with all applicable codes and regulations. The control room(s)/space(s) shall be maintained at a temperature between 32°F (0°C) and 104°F (40°C) to be measured 6 feet (1830 mm) above the floor and 1 foot (305 mm) out from the front center of the car controller(s). Relative humidity is

not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown on the Otis Confirmation of Power Supply form. Local codes may require tighter temperature ranges and higher ventilation levels, please check with your local code authority for the exact requirements in your area. If your control room(s)/Space(s) temperatures exceed these requirements, contact your local Otis sales representative for assistance.

24. Provide illumination of control room(s)/space(s) of not less than 200 LUX (19 FC) as measured at floor level. Light switch is to be located within 18" (157 mm) to the lock-jamb side of the access door to of the control room/space.
25. Provide control room(s)/space(s) with self-closing and self-locking doors with group 2 locking device. In addition, ensure that all air gaps around the doors are sealed.

Fire Prevention Prep/Work

26. Provide hoistway walls designed and constructed in accordance with the required fire rating (including those places where elevator fixture boxes, rail bracket fastenings, and any other penetration into the hoistway walls).
27. Provide smoke detectors, located as required, with wiring from the sensing devices to the controller(s) designated by Otis.
 - a. For each group of elevators, provide a normally closed contact representing the smoke detector at the designated return landing.
 - b. For each group of elevators, provide a normally closed contact representing all smoke detectors located in lobbies, hoistways, or control rooms/spaces, but not the smoke detector at the designated return landing (see above) or the smoke detectors as described in i. & ii. below.
 - i. If a smoke detector is located in the hoistway at or below the lower of the two recall landings, it shall be wired to activate the same normally closed contact as the smoke detector located in the lobby at the lower of the two recall landings.
 - ii. If the control room(s)/space(s) are located at the designated return landing, the smoke detectors located therein shall be wired to activate the same normally closed contact as the smoke detector at the designated landing.
 - c. Requirements for intermittently illuminating the fire hat visual signal in the car operating panel.
 - i. For a single unit or for a group of elevators having one common control room/space and one common hoistway, provide one additional normally closed contact representing the control room/space and hoistway smoke detectors.
 - ii. If the group contains more than one hoistway and hoistway smoke detectors are installed, or if the group has more than one control room/space, provide one normally closed contact for each elevator. The contact is to represent the smoke detector in the control room/space for that particular elevator, and any smoke detectors in the hoistway containing that particular elevator.
28. If sprinklers are installed in the hoistway(s), control room(s)/space(s), or machine space(s), a means to automatically disconnect the main line power supply of the affected elevator and any other power supplies used to move the elevator upon or prior to the application of water is required. This automatically controlled mainline disconnect must be provided with all associated wiring and conduit to the controller.

29. Provide control room(s)/space(s) and door to code compliant fire-resistive construction.
30. Provide a fire extinguisher in all control room(s)/space(s) and/or machine room(s).

Electrical Requirements

31. Prior to the start of installation provide a permanent three (3) phase electrical feeder system with a separate equipment grounding conductor terminating in the control room/space, located per Otis layout. Feeder conductors and grounding conductor sized according to elevator current characteristics as shown on the Otis Confirmation of Power Supply form. A fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1) with feeder or branch wiring to controller [NEC 620-51] or [CEC Rule 28-106]. Fuses are to be current limiting class RK1 or equivalent. Circuit breakers are to have current limiting characteristics equivalent to class RK1 fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current as listed in the Otis Confirmation of Power Supply form. The disconnecting means required by the National Electrical Code shall be provided with all associated wiring and conduit to the controller. Size of main contacts to suit elevator power characteristics.
32. If three (3) phase power is not available at the start of installation, a temporary single phase 220V, 55 ampere power supply with fused disconnect or circuit breaker for each elevator and available in the control room(s)/space(s) can be provided. This option requires additional cost and authorization from the Otis construction superintendent.
33. Provide a dedicated 125-volt, 15-ampere single-phase branch circuit; with a fused disconnect switch or circuit breaker. This disconnect or breaker shall be capable of being locked in the open position and located per the Otis layout. This branch circuit supplies the car lights, car top receptacle, auxiliary lighting power source, and ventilation on each car in compliance with the National Electrical Code [NEC 620-53] or Canadian Electrical Code [CEC Rule 28-106].
34. Provide a dedicated 125 volt, 15 ampere single-phase power supply with a fused SPST disconnect switch or circuit breaker for remote monitoring. This disconnect or breaker shall be capable of being locked in the open position and located per the Otis layout.
35. All 125 volt, 15 or 20 ampere single-phase receptacles installed in pits, machine spaces, control room(s)/space(s) shall be of the ground-fault circuit-interrupter type. A dedicated single-phase receptacle supplying a permanently installed pit sump pump shall not require GFCI protection.
36. Provide electric power for lights, tools, welding, hoisting, etc. during installation with sufficient power for starting, testing and adjusting the elevator.
37. Provide one (1) dedicated outside telephone line, per group, to the elevator control room/space, and terminated at the controller designated by the Otis construction superintendent.
38. In areas under the jurisdiction of ASME A17.1a-2002 where elevator travel is greater than or equal to 60 ft, provide two-way voice communications means that shall enable emergency personnel within the building to establish communications to each car individually without intervention by a person within the car. The communication means shall override communications to the outside of the building and once established shall only be terminated by emergency personnel outside the car. Refer to ASME A17.1a-2002, section 2.27.1.1.4 for exact requirements.
39. For elevators having an intercom, provide a separate 120 volt, 15 ampere, single phase power supply with fused SPST disconnect switch or circuit breaker, located as required for intercommunicating system power supply. Circuit to be arranged for feeding from the building

emergency lighting supply if provided. Conduit and wiring for remotely located inter-communicating stations.

40. For installations having a lobby panel, provide wiring and conduit to panels located away from the elevator hoistway for remote elevator control/indicator panels.
41. For installations having emergency (standby) power, provide the emergency (standby) power unit and means for starting it. The emergency (standby) power unit shall deliver to the elevator via disconnect switches in the control room/space, sufficient power to operate one or more elevators at a time at full rated speed, and rated load.

An automatic Power Transfer Switch for each power feeder to monitor both normal & emergency (standby) power conditions & to perform the transfer from one to the other. Switch to have 2 sets of normally closed dry contacts, one to be open when the switch is in the emergency (standby) power position; the other to open upon initiation of power transfer & to close when transfer is complete. Switch to have an inhibit function which will delay transfer to normal and/or emergency (standby) power by an adjustable period of 0 – 300 seconds. Switch shall have a phase monitor feature, which prohibits the transfer of power between "live" sources unless the sources are in phase with each other. If a shunt trip device is provided, an additional normally closed contact, with all associated wiring & conduit to the controller, is required from the emergency (standby) power source. The emergency (standby) power unit must be capable of absorbing regenerative power per elevator in accordance with ANSI/NFPA 70 requirement 620.91.

Emergency (standby) power system shall be connected to 125-volt power circuit as noted in note A.2. of the Power Confirmation for the branch circuit supplying the car lights, car top receptacle, auxiliary car lighting power source and car ventilation

42. For Hydraulic Elevators with a Battery-Powered Emergency Return Unit (ERU) - Provide the disconnecting means required by the National Electrical Code (NEC) with an auxiliary contact and wiring to the controller. The auxiliary contact is to be positively open when the main disconnecting means is open. The auxiliary contact shall cause the ERU power source to be disconnected from its load when the disconnecting means is in the open position. Size of main contacts to suit elevator power characteristics. Heat sensors, when used to automatically disconnect the mainline power supply prior to the application of water from sprinklers, shall be provided with a normally closed contact with wiring from the sensing device to a controller designated by Otis. The normally closed contact shall be closed when the heat sensor is not activated and shall be open when the heat sensor is activated.

Control Room/Space and Machine Space Prep/Work

43. Maintain the temperature at the top of the hoistway (machine space) between 32° F (0° C) and 113° F (45° C). Relative humidity not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown on the Otis Confirmation of Power Supply form. If your machine space temperatures exceed these requirements, contact your Otis sales representative.
44. Install a permanent light fixture at the top of the hoistway (machine space) of not less 200-lux (19fc) as measured at the level of the standing surface at the level of the standing surface on the car when the elevator is at the top landing. Light switch is to be located per the Otis layout.
45. Location of steel or concrete supports in the hoistway overhead (machine space) for the elevator beams and channels as required by elevator contractor.
46. You agree to indemnify and save Otis harmless against any and all liability and costs arising out of your failure to carry out any of the foregoing requirements.

Preparatory Work by Others

THE FOLLOWING ITEMS MUST BE PERFORMED OR PROVIDED AT NO COST TO OTIS ELEVATOR COMPANY ("OTIS") BY THE OWNER OR GENERAL CONTRACTOR OR THEIR AGENTS IN ACCORDANCE WITH GOVERNING CODES. THE PRICE AND INSTALLATION SCHEDULE OF OTIS IS BASED ON THESE JOB-SITE CONDITIONS EXISTING AT THE BEGINNING AND DURING THE INSTALLATION OF THE ELEVATOR EQUIPMENT.

ALL WORK MUST BE PERFORMED PER THE APPLICABLE NATIONAL AND/OR LOCAL CODES.

General Prep/Work

1. Provide on-site storage area for elevator equipment as follows: dry and enclosed, provides roll able access to the elevator hoistway at the ground level, located within 100 feet[3048mm] of the hoistway and is larger than 25 x 20 feet[7620mm x 6096mm] per unit. Any warranties provided by Otis for elevator equipment are null and void if equipment is stored in a manner other than a dry enclosed building structure.
2. Provide the use of a crane suitable for hoisting a load of up to 3500 lbs[1588 kg], for hoisting the integrated machine and bedplate structure and the controller into place prior to enclosing the hoistway. Also, provide adequate OSHA approved fall protection at the opening of the top of the hoistway on the roof. Fall protection must be adequate for two people and be in place prior to the hoisting of elevator equipment.
3. Provide sufficient on-site refuse containers for the proper disposal of elevator packaging material. Should sufficient refuse containers not be provided, disposal of packaging material shall become the responsibility of the owner.
4. Provide cutouts to accommodate elevator equipment (troughing, venting, and hall fixtures), along with the patching/painting of walls, floors, or partitions together with finish painting of entrance doors and frames, if required.

Hoistway & Pit Prep/Work

5. Provide a clear plumb hoistway with variations from the figures shown not to exceed 1"[25mm] at the first 20 floors and 1/32"[.8mm] increase for each additional floor up to a maximum of 2"[52mm] and not less than the clear dimensions shown in tables.
6. Provide adequate rail bracket supports, bracket spacing as required by governing code, from pit floor to top of hoistway. For steel or wood frame construction, adequate support for the top rail bracket to be installed not less than indicated by the rail force and bracket spacing detail table. Separator beams where required. Rail-bracket supports (e.g. Steel or concrete) shall not encroach into the clear hoistway line.

If the floor-to-floor height exceeds the maximum bracket spacing allowed by the elevator code, Otis requires some form of steel support to properly attach our guide rail brackets. The maximum allowed bracket spacing is indicated in the rail force and bracket detail table. Any rail bracket mounting surfaces that are not in line with the finished hoistway dimension (i.e. the clear hoistway line) may need to be extended to meet the required distance. Otis agrees to provide guidance on this matter at the appropriate time.

If rail bracket embedded plates or inserts are provided by Otis, they shall be installed by others in accordance with Otis documentation and instructions.

7. Provide adequate support at all fastening points of each entrance. Provide plumb vertical surfaces for entrances and sill supports, one above the other, and square with the hoistway. Finish floor and grout, if required, between door frames to sill line. A horizontal support is to be provided 1 foot[305mm] above the clear opening at the top landing to support the door frame assembly.
8. Prior to the start of installation, provide a dry, properly framed, enclosed, and vented hoistway in accordance with all applicable codes.
9. When installing the elevator equipment using the Otis FIT method, it is a requirement that a temporary work platform is to be constructed at the top landing of the hoistway(s), the furnishing, installation, and removal of this temporary platform is to be provided by others in accordance with governing codes and regulations and is not included in the elevator contractor's scope of work.

The platform is to be located at the top landing of the hoistway(s) and shall be securely fastened to the building structure. The platform shall be designed for not less than 50-psf uniform live load and a concentrated point load of 500 lb.

The platform shall be installed complete with guardrails at the perimeter of any opening in the platform.

The working surface of the platform shall have within easy reach, secure anchorage points for attachment of fall arrest lifelines, lanyards or deceleration devices.

The design and installation of the temporary platform shall be in accordance with the applicable provisions of all federal, state and local codes and regulations including but not limited to the latest amendments of American National Standards Institute, Inc. (ANSI), the Occupational Safety and Health Act (OSHA), and the State Building Code in effect in the state in which the elevator is being installed.

Otis has a temporary work platform design that meets these requirements. Request a copy of Otis drawing AAA27CR for details.

10. Provide guarding and protection of the hoistway during construction. Provide a freestanding removable barricade at each hoistway opening at each floor. Barricades shall be 42"[1067mm] high, have centerboard and kick board, and withstand 200 lbs.[91 kg] of side pressure. Hoistway barricades shall be constructed, maintained, and removed by others.
11. Provide a pit floor designed to sustain vertical forces (forces based on safety impact) on car and counterweight rails as shown in the rail force and bracket spacing table and impact loads on car and counterweight buffers as shown in the pit plan view. The pit must be dry and clean. The elevator pit must have a floor drain or sump pump to prevent the accumulation of water, but not be connected directly to a storm drain or sewer. Location to be coordinated with Otis to avoid all elevator components and access areas.The floor drain or sump pump should lead to a holding tank rather than a sewer or uncontained area. Otis recommends that the owner verify the drain or sump pump system is in compliance with all applicable laws.

12. One front entrance wall, at the main landing is not to be constructed until after all elevator material is located in the hoistway. Remaining front entrance walls are not to be constructed until after door frames and sills are in place. If front walls are poured concrete bearing walls, rough openings are to be provided to accept entrance frames and filled in after frames are set. Rough opening size per Otis layouts. Prior to the elevators being turned over, all entrance walls must be installed and rough openings filled in complete.

13. Provide and install a fixed vertical iron ladder in each pit as required by governing code and located per Otis layouts or as coordinated with Otis personnel. Ladder width and projection from wall per local code. If pit depth is greater than 9'-10"[3000mm] [13' 9"[4191mm] with no floor below bottom landing], a pit access door is required.

14. Install a permanent light fixture in the elevator pit with illumination of not less than 100 lx [10fc] as measured at the pit floor. The light bulb(s) shall be externally guarded to prevent contact and accidental breakage. The light switch shall be so located as to be accessible from the pit ladder or access door.

15. If pit depth is greater than 8' 3"[2515mm], a platform for accessing the equipment on the underside of the car is required. The platform shall:
 - a) Be coordinated with Otis personnel to interface with Otis' elevator equipment.
 - b) Maintain clearances and refuge spaces as defined in all applicable codes.
 - c) Be equipped with OSHA compliant guardrails when a fall hazard exists.
 - d) In seismic risk zone, comply with all applicable building code requirements to restrain it due to ground acceleration during an earthquake.
 - e) Be designed and installed to support without permanent deformation on the following loads: 221lbs.[100 kg], and a minimum of 80 lb/ft² [390kg/390m²] evenly distributed over the entire servicing platform area with a minimum of, 225 lbs[102 kg], concentrated load on any 3 in² [2000mm²] area.

Control Room/Space and Machine Space Prep/Work

16. Provide a suitable control room(s)/space(s) with access and ventilation in accordance with all applicable codes and regulations. The control room(s)/space(s) shall be maintained at a temperature between 32° F (0° C) and 104° F (40° C) to be measured 6 feet[1830mm] above the floor and 1 foot[305mm] out from the front center of the car controller(s). Relative humidity is not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown on the Otis Confirmation of Power Supply form. Local codes may require tighter temperature ranges, and higher ventilation levels, please check with your local code authority for the exact requirements in your area. If your control room(s)/spaces(s) temperatures exceed these requirements, contact your local Otis sales representative for assistance.
17. Provide illumination of control room(s)/space(s) of not less than 200 lx [19 fc] as measured at floor level. Light switch is to be located within 18"[157mm] to the lock-jamb side of the access door of the control room/space.

18. Provide control room(s)/space(s) with self-closing and self-locking doors with group 2 locking device. In addition, ensure that all air gaps around the doors are sealed (i.e. threshold, weather stripping, etc.).

19. Maintain the temperature at the top of the hoistway (machine space) between 32° F [0° C] and 113° F [45° C]. Relative humidity not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown on the Otis Confirmation of Power Supply form. If your machine space temperatures exceed these requirements, contact your local Otis sales representative for assistance.

20. Install a permanent light fixture at the top of the hoistway (machine space) of not less than 200 lx [19 fc] as measured at the level of the standing surface on the car when the elevator is at the top landing. Light switch is to be located in the hoistway per the Otis layout.

21. Location of steel or concrete supports in the hoistway overhead (machine space) for the elevator beams and channels as required by elevator contractor.

Fire Prevention Prep/Work

22. Provide hoistway walls designed and constructed in accordance with the required fire rating (including those places where elevator fixture boxes, rail bracket fastenings, and any other penetration into the hoistway walls).

23. Provide smoke detectors, located as required, with wiring from the sensing devices into the controller(s) designated by Otis.

- a) For each group of elevators, provide a normally closed contact representing the smoke detector at the designated return landing.
- b) For each group of elevators, provide a normally closed contact representing all smoke detectors located in lobbies, hoistways, or control room(s)/space(s), but not the smoke detector at the designated return landing (see above) or the smoke detectors as described in i. & ii. Below.

i. If a smoke detector is located in the hoistway at or below the lower of the two recall landings, it shall be wired to activate the same normally closed contact as the smoke detector located in the lobby at the lower of the two recall landings.

ii. If the control room(s)/space(s) are located at the designated return landing, the smoke detectors located therein shall be wired to activate the same normally closed contact as the smoke detector at the designated landing.

- c) Requirements for intermittently illuminating the fire hat visual signal in the car operating panel, either i) or ii) apply.
 - i. For a single unit or for a group of elevators having one common control room/space and one common hoistway, provide one additional normally closed contact representing the control room/space and hoistway smoke detectors.

ii. If the group contains more than one hoistway and hoistway smoke detectors are installed, or if the group has more than one control room/space provide one normally closed contact for each elevator. The contact is to represent the smoke detector in the control room/space for that particular elevator, and any smoke detectors in the hoistway containing that particular elevator.

24. If sprinklers are installed in the hoistway(s), control room(s)/space(s), or machine mounting structure space(s), a means to automatically disconnect the main line power supply of the affected elevator prior to the application of water is required (unless prohibited by local code). This automatically controlled mainline disconnect must be provided with all associated wiring and conduit to the controller.

25. Provide control room(s)/space(s) and door to code compliant fire-resistive construction.

26. Provide a fire extinguisher in all control room(s)/space(s).

Electrical Requirements

27. Prior to the start of installation provide a permanent three (3) phase electrical-feeder system with a separate equipment grounding conductor terminating in the control room/space, located per Otis layout. Feeder conductors and grounding conductor sized according to elevator current characteristics as shown on the Otis Confirmation of Power Supply form. A fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C 22.1) with feeder or branch wiring to controller [NEC 620-51] or [CEC Rule 28-106]. The disconnecting means required by the National Electrical Code shall be provided with all associated wiring and conduit to the controller. Size of main contacts to suit elevator power characteristics.

If three (3) phase power is not available at the start of installation, a temporary single phase 220V, 55 ampere power supply with fused disconnect or circuit breaker for each elevator and available in the control room(s)/space(s) can be provided. Authorization from the Otis construction superintendent is required to install using temporary power.

28. Provide a dedicated 125 volt, 15 ampere single-phase branch circuit; with a fused disconnect switch or circuit breaker. This disconnect or breaker shall be capable of being locked in the open position and located per the Otis layout. This branch circuit supplies the car lights, car top receptacle, auxiliary lighting power source, and ventilation on each car in compliance with the National Electrical Code [NEC 620-53] or Canadian Electrical Code [CEC Rule 28-106].

29. Provide a dedicated 125 volt, 15 ampere single-phase power supply with a fused SPST disconnect switch or circuit breaker for remote monitoring. This disconnect or breaker shall be capable of being locked in the open position and located per the Otis layout.

30. All 125 volt, 15 or 20 ampere single-phase receptacles installed in pit(s), machine space(s), control room(s)/space(s) shall be of ground-fault circuit-interrupter type (GFCI). A dedicated single-phase receptacle supplying a permanently installed pit sump pump shall not require GFCI protection.

31. Provide electric power for lights, tools, welding, hoisting, etc. during installation with sufficient power for starting, testing and adjusting the elevator.

32. Provide one (1) dedicated outside telephone line, per group, to the elevator control room/space, and terminated at the controller designated by the Otis construction superintendent.

33. [Optional] For elevators having an intercom, provide a separate 125 volt, 15 ampere, single-phase power supply with fused SPST disconnect switch or circuit breaker, located as required for the inter-communicating system power supply. Circuit to be arranged for feeding from the building emergency lighting supply if provided. Conduit and wiring for remotely located inter-communicating stations.

34. [Optional] For installations having a lobby panel, provide conduit to panels located away from the elevator hoistway for remote elevator control/indicator panels.

35. [Optional] For installations having emergency (standby) power, provide the emergency (standby) power unit and means for starting it. The emergency (standby) power unit shall deliver to the elevator via disconnect switches in the control room/space, sufficient power to operate one or more elevators at a time at full rated speed, and rated load.

An automatic power transfer switch for each power feeder to monitor both normal and emergency (standby) power conditions and to perform the transfer from one to the other. Switch to have two sets of normally closed dry contacts, one to be open when the switch is in the emergency (standby) power position; the other to open upon initiation of power transfer and to close when transfer is complete. Switch to have an inhibit function which will delay transfer to normal and/or emergency (standby) power by an adjustable period of 0-300 seconds. Switch shall have a phase monitor feature, which prohibits the transfer of power between "live" sources unless the sources are in phase with each other. If a shunt trip device is provided, an additional normally closed contact with all associated wiring and conduit to the controller, is required from the emergency (standby) power source.

Emergency (standby) power system shall be connected to 125 volt power circuit as noted in note A.2 of the Power Confirmation for the branch circuit supplying the car lights, car top receptacle, auxiliary car lighting power source and car ventilation.

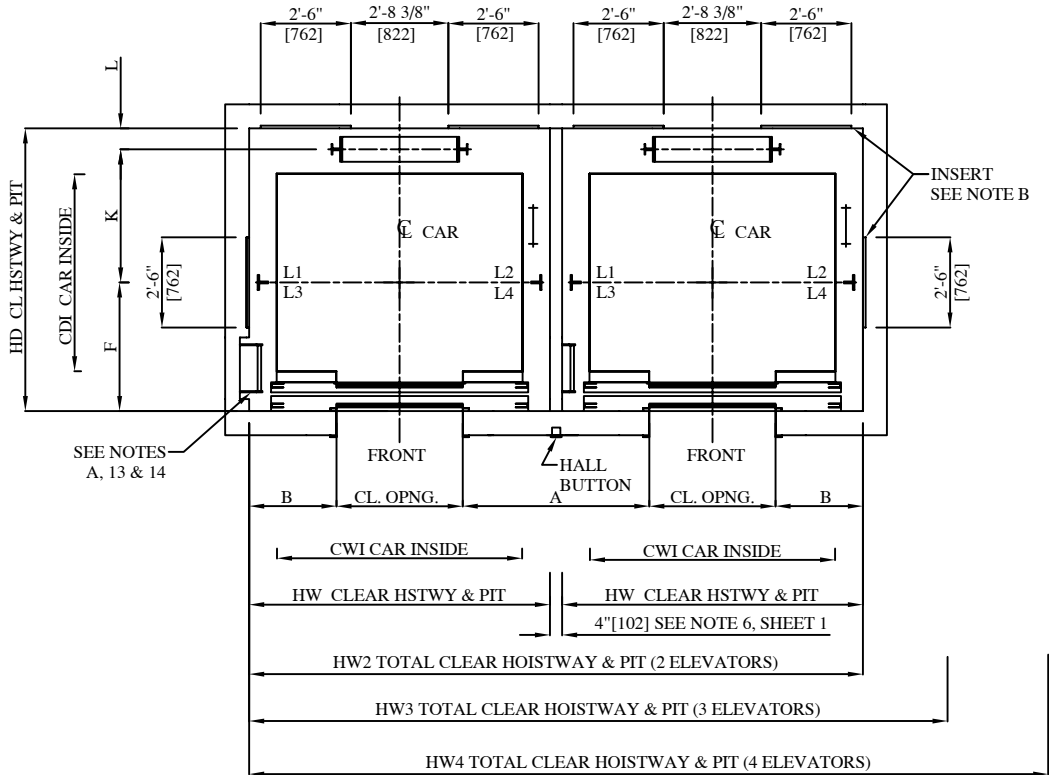
36. **In areas under the jurisdiction of AMSE A17.1-2004 where the elevator travel is greater than or equal to 60'[18 meters], provide two-way voice communications means that shall enable emergency personnel within the building to establish communications to each car individually without intervention by a person within the car. The communication means shall override communications to the outside of the building and once established shall only be terminated by emergency personnel outside the car.** Refer to ASME A17.1-2004, section 2.27.1.1.4 for exact requirements.

You agree to indemnify and save Otis harmless against any and all liability and costs arising out of your failure to carry out any of the foregoing requirements.

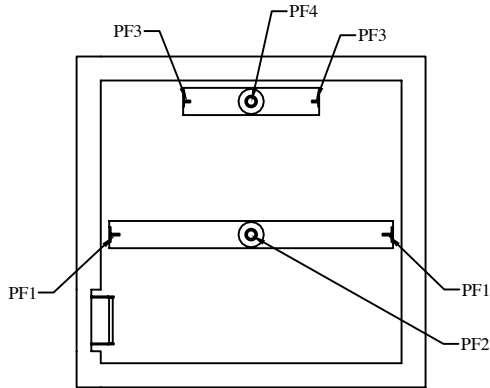
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Gen2[®]		MACHINE ROOMLESS (MRL) PREPARATORY WORK BY OTHERS	
 Otis A United Technologies Company			
REVISION DATE:		SHEET 1 OF 6	
DWG. NO.: GEN2-TYP-MRL-PWBO			
BUILDING			
LOCATION ,			
CONT. WITH			
OWNER			
ARCHT.			
CONTRACT NO.			

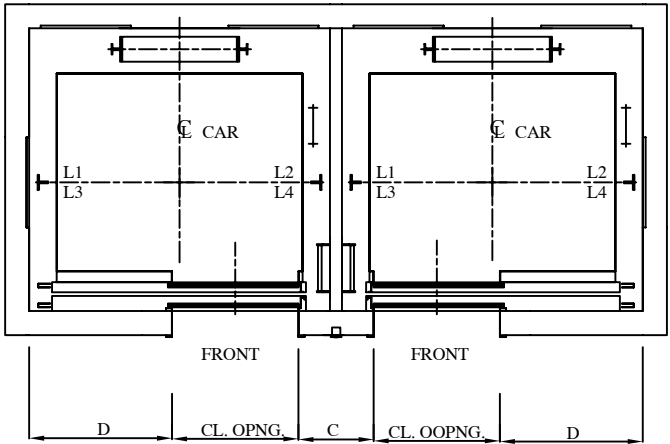


CENTER OPENING ENTRANCE ARRANGEMENT
(AVAILABLE WITH 2500, 3000, 3500, 4000 CAPACITIES)



PIT FLOOR FORCES
(FORCES SHOWN ARE DOUBLED FOR IMPACT)
(RAIL FORCES AND BUFFER FORCES DO NOT OCCUR SIMULTANEOUSLY)

Table with 6 columns: REF., CAPACITY (2500, 3000, 3500, 4000), and rows for CAR (PF1, PF2) and CWT (PF3, PF4) showing force values.



RIGHT HAND & LEFT HAND ENTRANCE ARRANGEMENT
(AVAILABLE WITH 2500, 3000, 3500 CAPACITIES)

Table containing a diagram of rail force application (R1, R2) and two sub-tables: 'RAIL FORCE & BRACKET SPACING DETAIL' and 'REQUIREMENTS FOR RAIL BRACKET SUPPORT'. The first sub-table shows rail forces and spacings for CAR and CWT. The second sub-table shows deflection requirements based on horizontal rail forces.

REQUIREMENTS FOR RAIL BRACKET SUPPORT (NOT BY OTIS):
DEFLECTION NOT TO EXCEED 1/8"[3mm] BASED ON
HORIZONTAL RAIL FORCES.

NOTE:
VALUES SHOWN IN [] ARE IN MM
DIRECTIONAL ARROW
INDICATES NORTH

REVISIONS

- THIS SHEET COVERS THE FOLLOWING CONDITIONS:
- PASSENGER CAR, ED - EXTENDED DUTY, MRL - MACHINE ROOMLESS, REAR OPENING, SEISMIC ZONE 0 OR 1, CWT WITH SAFETY
 - HOSPITAL CAR, LIMITED DUTY, MMR - MACHINE ROOM, GLASS BACK, SEISMIC ZONE 2, 3 OR 4, CWT WITHOUT SAFETY

NOTE A
IF CUTOFF REQUIRED FOR PIT LADDER,
23"[584] (WIDTH) X 2-1/2"[64] (DEPTH) X PIT DEPTH + 4'-0"[914]
OTIS REPRESENTATIVE TO CONFIRM YOUR SPECIFIC LOCATION.
NOTE B
THESE DIMENSIONS ARE BASED ON HOISTWAY SIZES SHOWN
& 30"[762] INSERTS. IF EITHER OF THESE VARY, CONSULT THE
SALES REPRESENTATIVE.

APPROVAL
THIS ARRANGEMENT AND
SUPPLEMENTARY NOTES APPROVED

SIGNED: DATE:

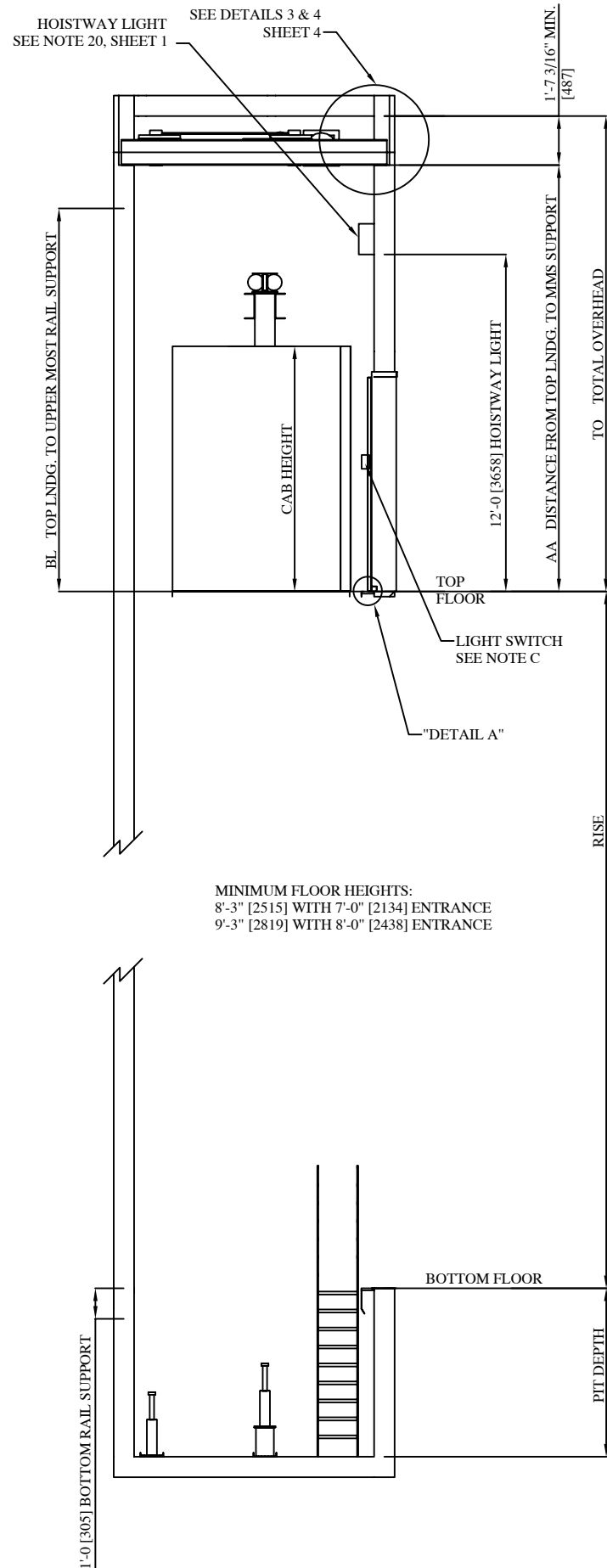
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Gen2



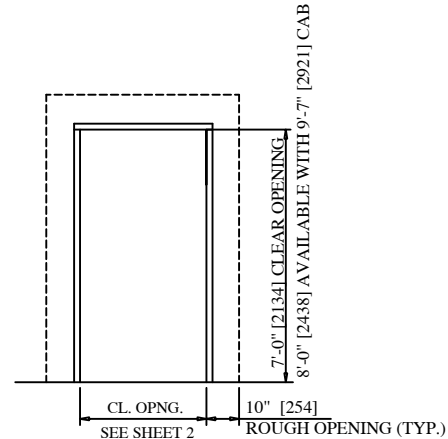
REVISION DATE: SHEET 2
DWG. NO.: GEN2-TYP-P-PN
BUILDING
LOCATION
CONT. WITH
OWNER
ARCHT.
CONTRACT NO.

Table with 15 columns: CAPACITY, HD, HW, HW2, HW3, HW4, * CWI, * CDI, CL. OPNG., A, B, C, D, F, K, L. It provides detailed dimensions for various elevator capacities (2500, 3000, 3500, 4000) and hoistway configurations.

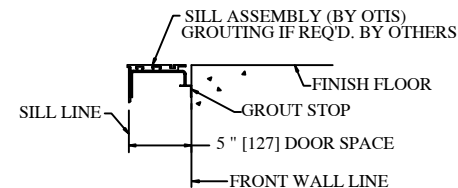


CAR SPEED	CAB HEIGHT	AA		TO	PIT DEPTH		MAXIMUM RISE	BL
		MINIMUM	MAXIMUM	MINIMUM	MINIMUM	MAXIMUM		
200 FPM	8'-0" [2438]	13'-2" [4013]	15'-2" [4622]	14'-9 3/16" [4500]	4'-11 1/4" [1505]	15'-3" [4648]	197'-0" [60046]	11'-2" [3402]
	9'-7" [2921]	14'-9" [4496]	16'-9" [5105]	16'-4 3/16" [4983]				12'-9" [3886]
350 FPM	8'-0" [2438]	13'-10 3/8" [4225]	15'-10 3/8" [4835]	15'-5 9/16" [4713]	5'-5 1/4" [1657]	15'-9 1/2" [4813]	302'-0" [92050]	11'-10 3/8" [3615]
	9'-7" [2921]	15'-5 3/8" [4709]	17'-5 3/8" [5318]	17'-0 9/16" [5196]				13'-5 3/8" [4099]
* 400 FPM	8'-0" [2438]	14'-4 13/16" [4389]	16'-4 13/16" [4999]	16'-0" [4876]	5'-8" [1728]	17'-10 1/2" [5448]		12'-1 13/16" [3704]
	9'-7" [2921]	15'-11 13/16" [4872]	17'-11 13/16" [5481]	17'-7" [5359]				13'-8 13/16" [4187]

* CWT WITH SAFETY IS NOT AVAILABLE FOR THIS CAR SPEED.
IF CAR SPEED = 400 AND ROLLER GUIDE SIZE (ROLGDSZ) = 200mm THEN MINIMUM PIT DEPTH = 6'-1" [1864].
IF CAPACITY = 2500# AND COUNTERWEIGHT WITH SAFETY THEN "BL" MUST BE REDUCED BY 18" [457MM].



ENTRANCE DETAIL



SEE NOTE 7, SHEET 1

DETAIL "A"
SILL SUPPORT

ADEQUATE SUPPORT AT ALL FASTENING POINTS OF ENTRANCE ASSEMBLY REQUIRED. MUST WITHSTAND A HORIZONTAL PULL-OUT FORCE OF 140 LBS.[63.5 kg] @ EA. FASTENING POINT (8 @ EA. ENTRANCE) INCLUDING SUPPORT FOR CENTER SILL SUPPORT BRACKET (NOT BY OTIS).

NOTE:
VALUES SHOWN IN [] ARE IN MM

[illegible]

THIS SHEET COVERS THE FOLLOWING CONDITIONS

- | | |
|--|--|
| ☒ PASSENGER CAR | ☐ HOSPITAL CAR |
| ☒ ED - EXTENDED DUTY | ☐ LIMITED DUTY |
| ☒ MRL - MACHINE ROOMLESS | ☐ MMR - MACHINE ROOM |
| ☐ REAR OPENING | ☐ GLASS BACK |
| ☒ SEISMIC ZONE 0 OR 1 | ☒ SEISMIC ZONE 2, 3 OR 4 |
| ☒ CWT WITH SAFETY | ☒ CWT WITHOUT SAFETY |

NOTE C:
HOISTWAY LIGHT SWITCH (LOCATED 3'-0" [914] ABOVE TOP
LANDING) COORDINATE WITH OTIS.

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THIS ARRANGEMENT AND
SUPPLEMENTARY NOTES APPROVED

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Gen2®



REVISION DATE:	SHEET 3
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DWG. NO.: GEN2-TYP-MRL-P-EL

BUILDING

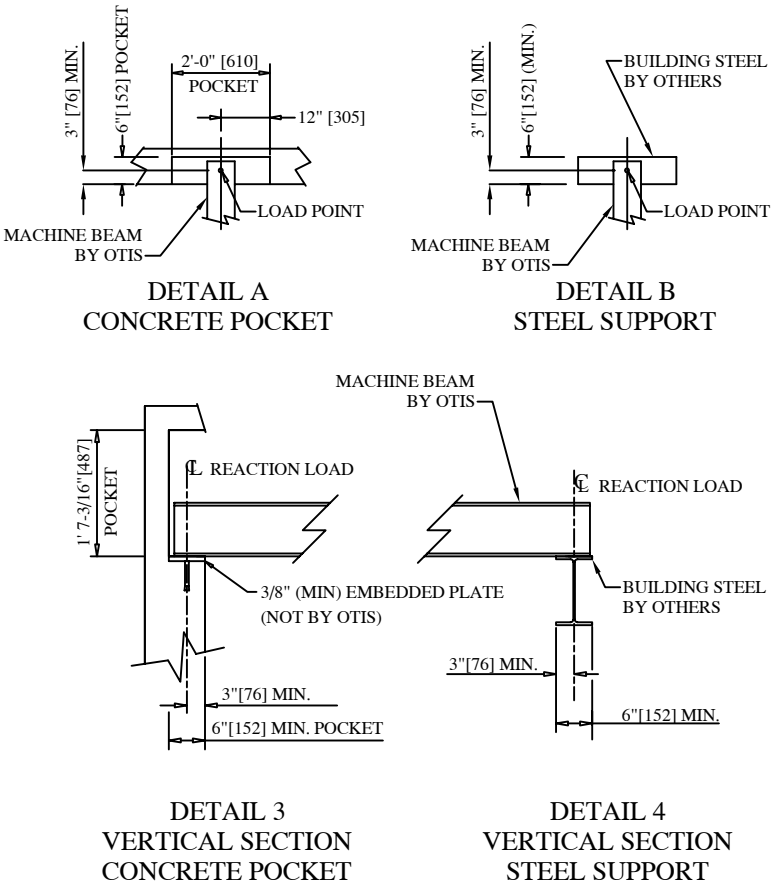
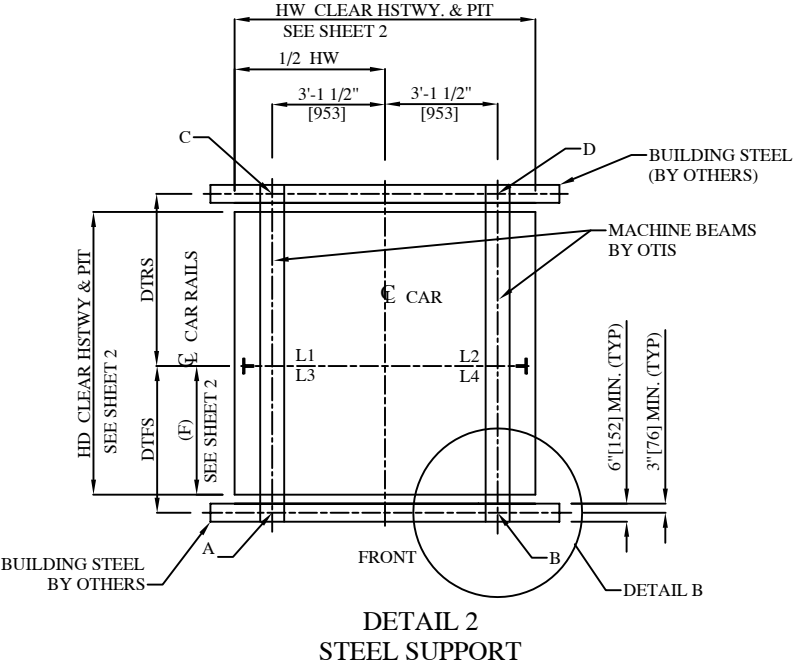
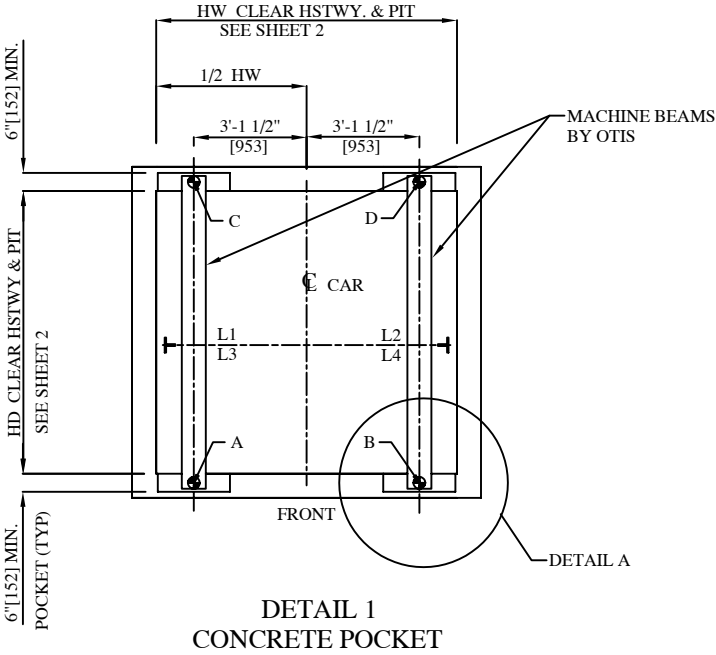
LOCATION

CONT. WITH

OWNER

ARCHT.

CONTRACT NO.



OVERHEAD BUILDING REACTIONS					
	REF	CAPACITY			
		2500	3000	3500	4000
STATIC	A	3.7K	4.2K	4.1K	4.1K
		16,2KN	18,7KN	18,4KN	18,3KN
	B	4.0K	4.5K	4.5K	4.5K
		17,8KN	20,1KN	19,8KN	19,7KN
	C	6.5K	8.2K	8.2K	8.1K
		28,9KN	36,6KN	36,5KN	35,9KN
	D	7.1K	8.8K	8.8K	8.7K
		31,3KN	39,1KN	39,0KN	38,5KN
DYNAMIC	A	6.9K	8.0K	7.9K	7.8K
		30,6KN	35,7KN	35,0KN	34,8KN
	B	7.5K	8.6K	8.4K	8.4K
		33,2KN	38,1KN	37,4KN	37,3KN
	C	12.1K	15.5K	15.5K	15.2K
		53,8KN	69,1KN	68,8KN	67,8KN
	D	13.0K	16.5K	16.4K	16.2K
		58,0KN	73,5KN	73,1KN	72,1KN
MACHINE BEAMS		W10x39			

		DTFS		DTRS	
		CAPACITY	MIN.	MAX.	
WITHOUT COUNTERWEIGHT SAFETY	SEISMIC ZONE 0,1,2,3,4	2500	2'-11 1/16" [891]	4'-9 3/4" [1467]	4'-2 5/16" [1278]
		3000			4'-2 1/2" [1282]
		3500			4'-6 3/16" [1376]
		4000			4'-6 5/16" [1380]
WITH COUNTERWEIGHT SAFETY	SEISMIC ZONE 0,1,2,3,4	2500	2'-11 1/16" [891]	4'-9 3/4" [1467]	4'-6 5/16" [1380]
		3000			4'-6 7/16" [1383]
		3500			4'-10 1/8" [1477]
		4000			6'-5 5/8" [1972]

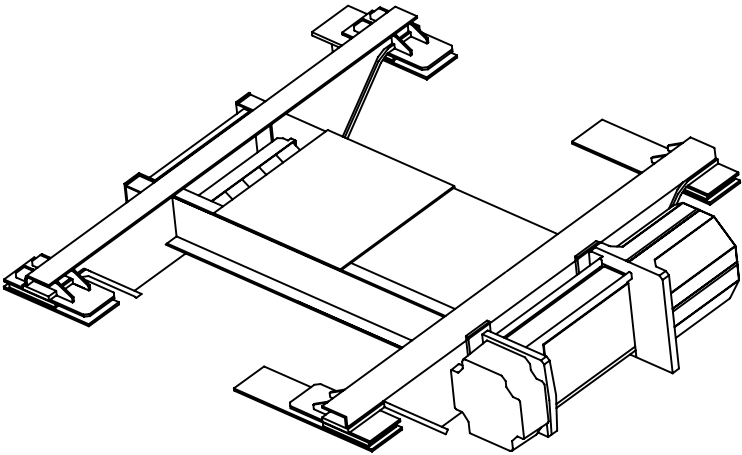
DTFS = DISTANCE FROM CAR RAILS TO FRONT LOAD-POINT
DTRS = DISTANCE FROM CAR RAILS TO REAR LOAD POINT

DESIGN CRITERIA FOR BUILDING IMMEDIATE SUPPORTS

1. STATIC CONDITION: $\Delta_{ALLOW.} = \frac{SPAN}{1666}$
2. DYNAMIC CONDITION: $STRESS_{ALLOW.} = 80\%$ OF THE PERMITTED STRESSES FOR STATIC LOADS.

MACHINE BEAM LENGTH:
MIN. LENGTH = LOAD POINT TO LOAD POINT + 4" [100]

NOTE:
VALUES SHOWN IN [] ARE IN MM



MACHINE STRUCTURE

REVISIONS

THIS SHEET COVERS THE FOLLOWING CONDITIONS:

☒ PASSENGER CAR

☐ HOSPITAL CAR

☒ ED - EXTENDED DUTY

☐ LIMITED DUTY

☒ MRL - MACHINE ROOMLESS

☐ MMR - MACHINE ROOM

☐ REAR OPENING

☐ GLASS BACK

☒ SEISMIC ZONE 0 OR 1

☒ SEISMIC ZONE 2, 3 OR 4

☒ CWT WITH SAFETY

☒ CWT WITHOUT SAFETY

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REVISION DATE: _____ SHEET 4

DWG. NO.: GEN2-TYP-MRL-P-MR

BUILDING

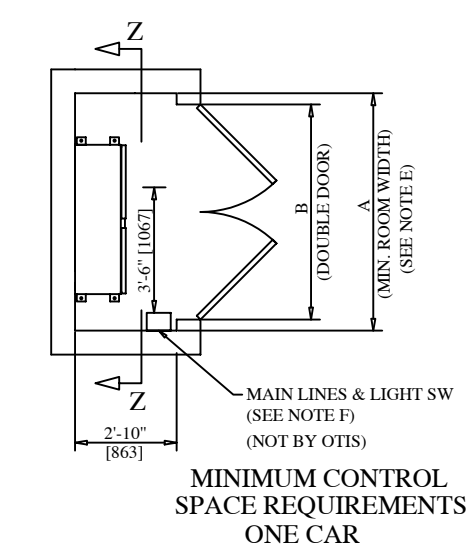
LOCATION

CONT. WITH

OWNER

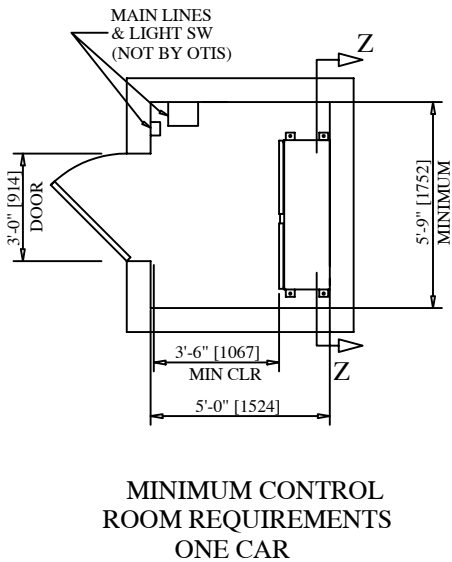
ARCHT.

CONTRACT NO.

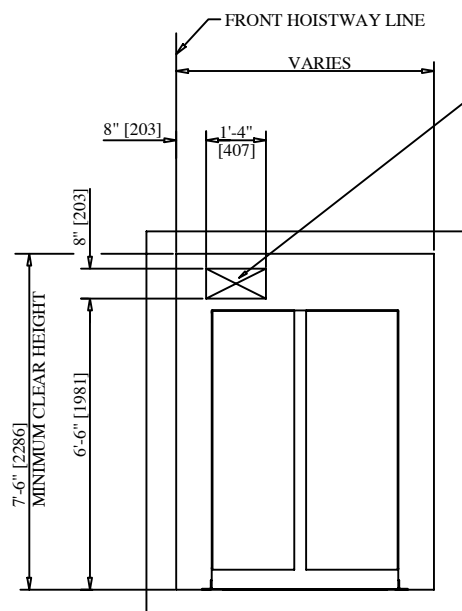


	A	B
PREFERRED	6'-7 1/2" [2019]	6'-0" [1829]
MINIMUM	5'-9" [1753]	5'-4" [1628]

NOTE E
CHECK LOCAL BUILDING CODES FOR HALLWAY CLEARANCES WHEN CONTROL DOORS ARE OPENED FOR SERVICE OF THE ELEVATOR.

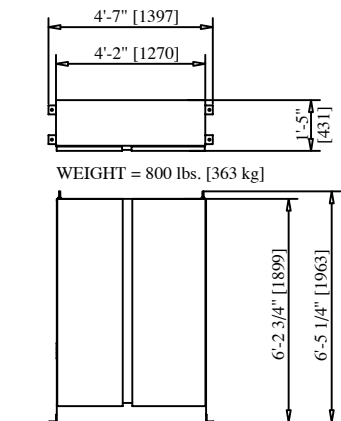


NOTE F
THE FRONT SURFACE OF THE MAINLINE DISCONNECT MUST PROJECT INTO CLEAR OPENING OF CONTROL SPACE. IF THE SIZE OF THE CONTROL SPACE IS INCREASED, A MEANS OF LOCATING THE MAINLINE DISCONNECT INTO THE CLEAR OPENING MUST BE PROVIDED.

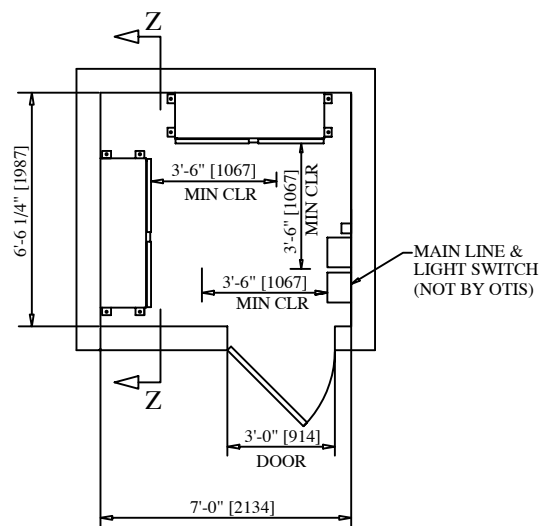


SECTION Z - Z

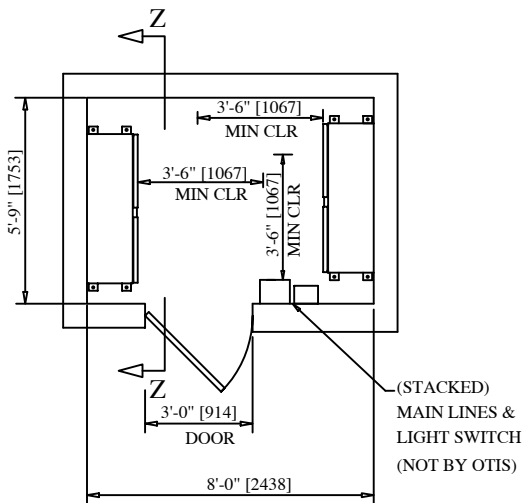
BLOCKOUT IN WALL TO ALLOW ELECTRICAL TROUGHING & CONDUIT, SIZE SHOWN IS FOR 1 CAR ARRANGEMENT W/ CONTROL SPACE/ROOM AT THE TOP LANDING.
(SEE NOTE 4, IN PREPARATORY WORK BY OTHERS)



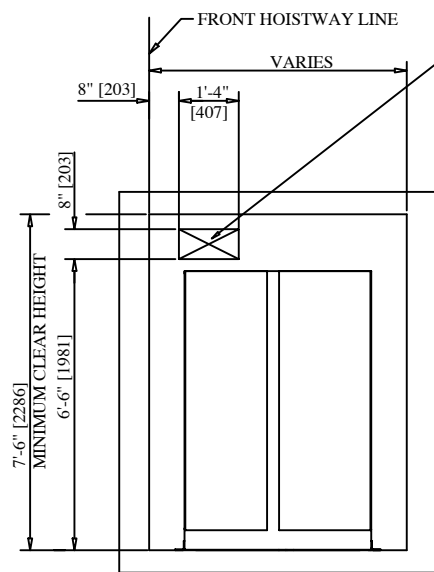
CONTROLLER DIMENSIONS



MINIMUM CONTROL ROOM REQUIREMENTS FOR TWO CAR WITH CONTROLLERS ON ADJACENT WALLS



MINIMUM CONTROL ROOM REQUIREMENTS TWO CAR WITH CONTROLLERS ON OPPOSITE WALLS



SECTION Z - Z

BLOCKOUT IN WALL TO ALLOW ELECTRICAL TROUGHING & CONDUIT, SIZE SHOWN IS FOR 2 CAR ARRANGEMENT W/ CONTROL SPACE/ROOM AT THE TOP LANDING.
(SEE NOTE 4, IN PREPARATORY WORK BY OTHERS)

NOTE:
VALUES SHOWN IN [] ARE IN MM.

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REVISION DATE: _____ SHEET 5

DWG. NO.: GEN2-TYP-CR1

BUILDING

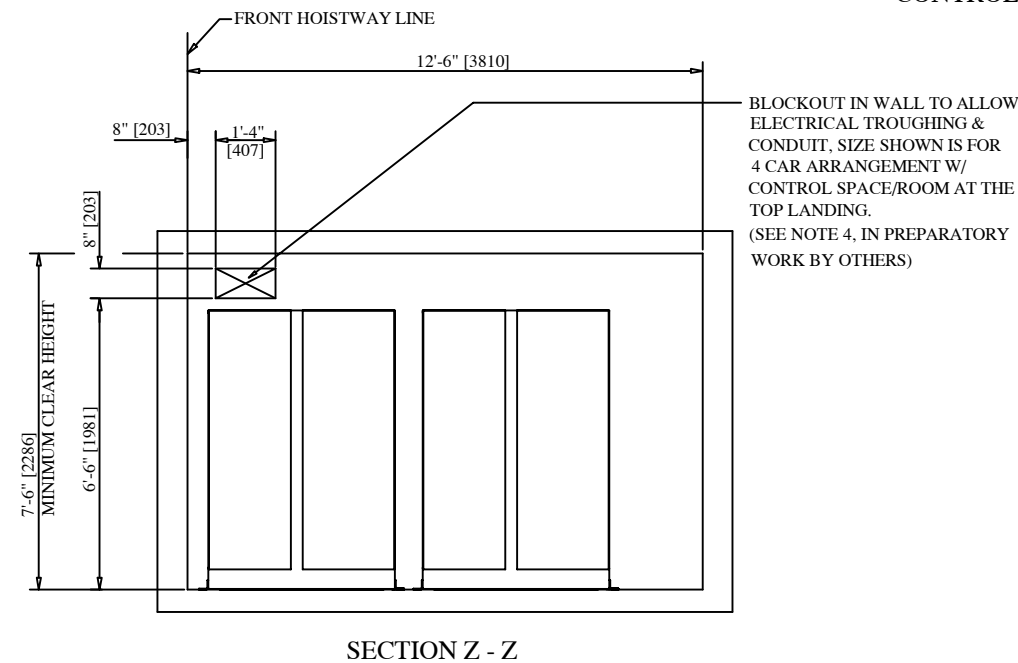
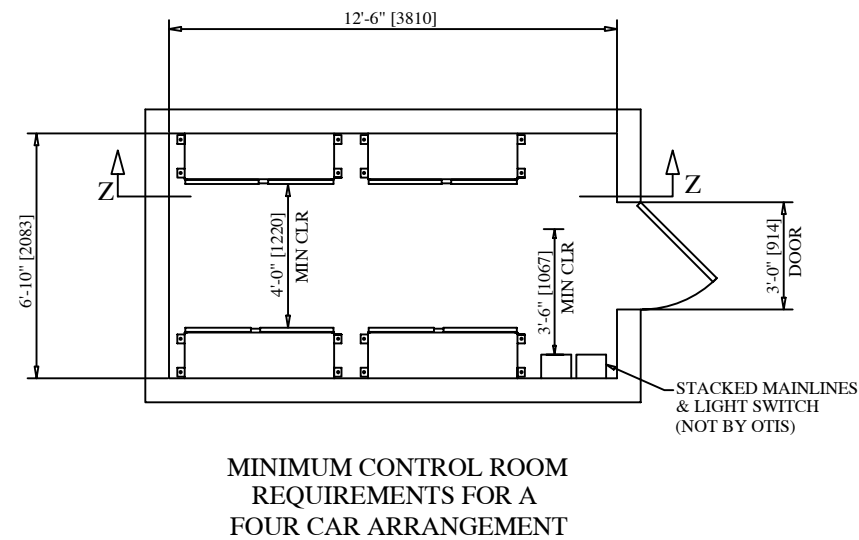
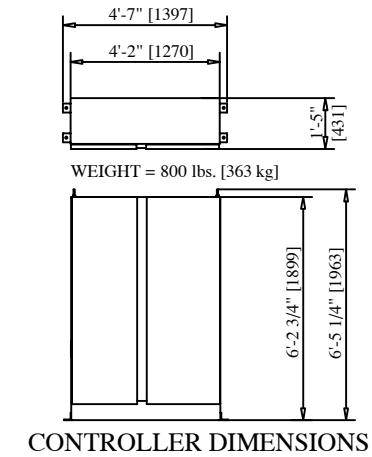
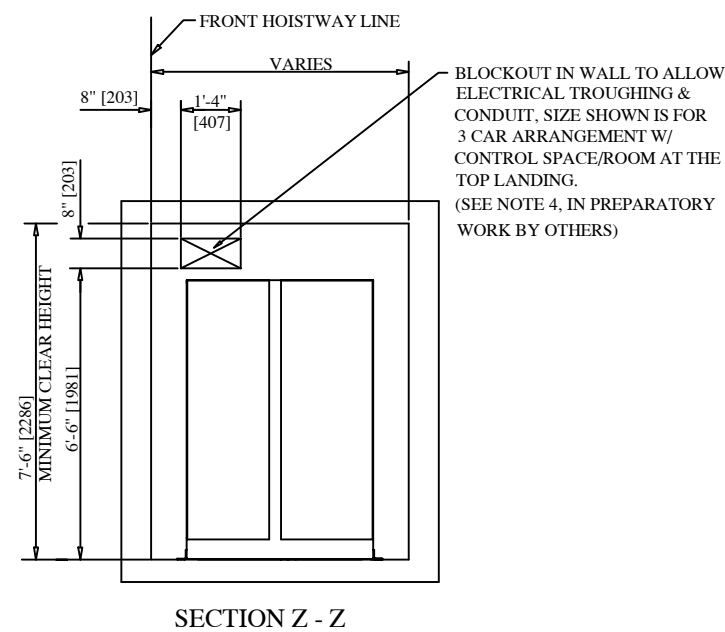
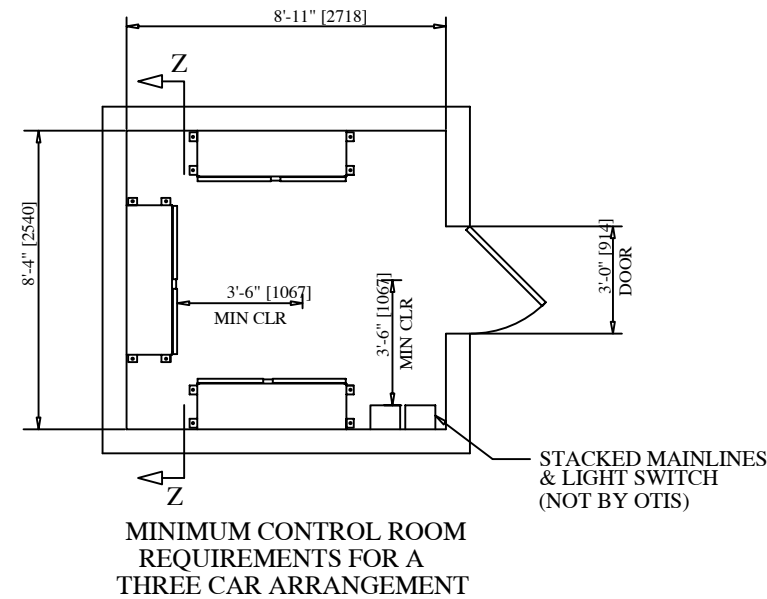
LOCATION

CONT. WITH

OWNER

ARCHT.

CONTRACT NO.



NOTE:
VALUES SHOWN IN [] ARE IN MM.

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REVISION DATE: _____ SHEET 6

DWG. NO.: GEN2-TYP-CR2

BUILDING

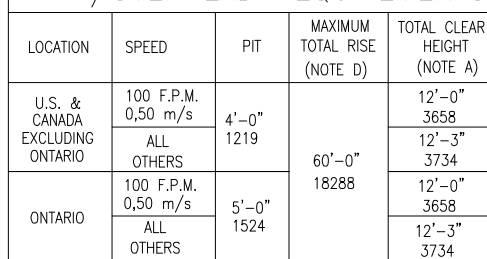
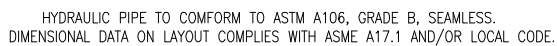
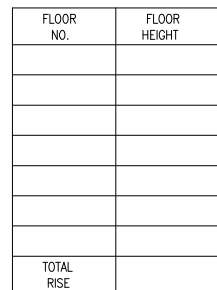
LOCATION

CONT. WITH

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	<u>APPROVAL</u> THIS ARRANGEMENT AND SUPPLEMENTARY NOTES APPROVED SIGNED _____ DATE _____
	<u>GUARANTEE</u> HOISTWAY SIZE GUARANTEED PLUMB WITHIN 1" /25mm BUT NOT LESS THAN FIGURES SHOWN SIGNED _____ DATE _____

UNITED TECHNOLOGIES ELEVATOR GENERAL REQUIREMENTS BY OTHERS	
1. PROPERLY FRAMED AND ENCLOSED LEGAL HOISTWAY INCLUDING VENTING AS REQUIRED BY THE GOVERNING CODE AND SAFETY BEAM AS SHOWN. 2. ADEQUATE SUPPORT FOR GUIDE RAIL FASTENINGS NOT TO EXCEED THE VERTICAL SPACING SHOWN ON THE RAIL BRACKET CHART. SEPARATOR BEAMS WHERE REQUIRED. 3. PROVISIONS FOR GUARDING AND PROTECTING THE HOISTWAY DURING CONSTRUCTION TO BE ERECTED, MAINTAINED, AND REMOVED BY OTHERS. 4. ALL CUTTING OR PATCHING TO ACCOMMODATE ELEVATOR INSTALLATION. 5. HOISTWAY WALLS ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIRED FIRE RATING INCLUDING WHERE PENETRATED BY ELEVATOR FIXTURE BOXES, AND TO INCLUDE ADEQUATE FASTENINGS TO HOISTWAY ASSEMBLIES. A HORIZONTAL SUPPORT MUST BE PROVIDED 12" (305mm) ABOVE THE CLEAR OPENING AT EACH LANDING TO SUPPORT THE DOOR FRAME ASSEMBLY. THE ENTRANCE WALL AND THE FINISHED FLOOR MUST NOT BE CONSTRUCTED UNTIL THE FRAMES AND SILLS ARE SET. 6. FOR PRECAST OR POURED CONCRETE WALLS, PROVIDE THE ROUGH OPENING FOR HOISTWAY AS SHOWN ON LAYOUT, AND ANY GROUTING AROUND ENTRANCE FRAMES IF REQ'D. 7. SUITABLE MACHINE ROOM WITH LEGAL ACCESS AND MINIMUM HEIGHT OF 7'6" (2286 mm) TO BE PROVIDED. MACHINE ROOM TEMPERATURE MAINTAINED BETWEEN 60° & 100° F (15.5° & 37.8° C). RELATIVE HUMIDITY NOT TO EXCEED 95% NON-CONDENSING. FOR HEATING, VENTILATION, AND AIR CONDITIONING REQUIREMENTS OTHER THAN THOSE SHOWN ABOVE REFER TO OTIS CONFIRMATION OF POWER SUPPLY FORM. 8. A SEPARATE BRANCH CIRCUIT FOR SUITABLE LIGHT FIXTURE(S) AND CONVENIENCE OUTLETS, WITH G.F.I., IN THE MACHINE ROOM WITH THE LIGHT SWITCH LOCATED ADJACENT TO THE LOCK JAMB SIDE OF THE MACHINE ROOM DOOR. 9. FOR EACH ELEVATOR, A THREE PHASE ELECTRICAL FEEDER SYSTEM WITH A SEPARATE EQUIPMENT GROUNDING CONDUCTOR AND A SINGLE PHASE 120 VOLT LIGHTING SUPPLY. EACH WITH A FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER, LOCATED IN THE MACHINE ROOM AND WIRED TO EACH CONTROLLER. 10. IN THE PIT, A SEPARATE BRANCH CIRCUIT FOR CONVENIENCE G.F.C.I. OUTLET & LIGHT FIXTURE WITH LIGHT SWITCH ADJACENT TO THE PIT LADDER. 11. ALL ELECTRIC POWER FOR TOOLS, LIGHT, HOIST, ETC., DURING ERECTION AS WELL AS ELECTRIC CURRENT FOR STARTING AND ADJUSTING THE ELEVATOR. 12. DRY PIT REINFORCED TO SUSTAIN VERTICAL FORCES OF UP TO: $\frac{17,682}{79}$ LBS/KN AT EACH BUFFER AND $\frac{35,138}{157}$ LBS/KN AT THE CYLINDER HEAD. THE ACCUMULATION OF WATER MUST BE PREVENTED. 13. A FIXED VERTICAL STEEL LADDER TO PIT EXTENDING 4'-0" (1219mm) ABOVE THE SILL OF THE BOTTOM ENTRANCE AS LOCATED IN THE PLAN VIEW. LADDER WIDTH AND PROJECTION FROM WALL PER LOCAL CODE. IF PIT DEPTH IS GREATER THAN 9'-10" (3000mm) [13'-9" (4191mm) WITH NO FLOOR BELOW BOTTOM LANDING], A PIT ACCESS DOOR IS REQUIRED. 14. IF PIT FLOOR IS TO BE POURED BEFORE WELL HOLE OR CASING IS INSTALLED, A 30" x 30" (760mm x 760mm) CUTOUT IN PIT FLOOR SHALL BE PROVIDED. CUTOUT AND PATCHING OF FLOOR NOT BY OTIS. WHEN THE WELL HOLE IS NOT THE RESPONSIBILITY OF OTIS, THE DRILLING CONTRACTOR SHALL DRILL A WELL HOLE AND INSTALL CASING WITH PLUG AND END CAP. CLEAR HOLE TO BE OF ADEQUATE DEPTH AND DIAMETER FOR OTIS TO INSTALL A _____ DIAMETER ASSEMBLY PERFECTLY PLUMB AT THE LOCATION INDICATED ON THIS DRAWING. 15. ELEVATOR CAB FLOORING MUST NOT EXCEED A THICKNESS OF 5/16" (8mm). 16. ONE (1) DEDICATED OUTSIDE TELEPHONE LINE TO THE ELEVATOR MACHINE ROOM MUST BE FURNISHED. TELEPHONE CONNECTIONS TO EACH CONTROLLER. TELEPHONE INSTRUMENT BY OTHERS. 17. ALL 125 VOLT, 15 OR 20 AMP, SINGLE PHASE DUPLEX RECEPTACLES INSTALLED IN PITS, MACHINE ROOMS OR MACHINERY SPACES, SHALL BE OF THE GROUND-FAULT-CIRCUIT-INTERRUPTER TYPE. 18. SMOKE DETECTORS, LOCATED AS REQUIRED, WITH WIRING FROM THE SENSING DEVICES TO A CONTROLLER DESIGNATED BY OTIS. FOR EACH GROUP OF ELEVATORS, PROVIDE A NORMALLY CLOSED CONTACT REPRESENTING THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING. FOR EACH GROUP OF ELEVATORS, PROVIDE A NORMALLY CLOSED CONTACT REPRESENTING ALL SMOKE DETECTORS LOCATED IN LOBBIES, HOISTWAYS, OR MACHINE ROOMS, BUT NOT THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING (SEE ABOVE) OR THE SMOKE DETECTORS AS DESCRIBED IN A & B BELOW: A) IF A SMOKE DETECTOR IS LOCATED IN THE HOISTWAY AT OR BELOW THE LOWER OF THE TWO RECALL LANDINGS, IT SHALL BE WIRED TO ACTIVATE THE SAME NORMALLY CLOSED CONTACT AS THE SMOKE DETECTOR LOCATED IN THE LOBBY AT THE LOWER OF THE TWO RECALL LANDINGS. B) IF MACHINE ROOMS ARE LOCATED AT THE DESIGNATED RETURN LANDING, THE SMOKE DETECTOR LOCATED THEREIN SHALL BE WIRED TO ACTIVATE THE SAME NORMALLY CLOSED CONTACT AS THE SMOKE DETECTOR AT THE DESIGNATED LANDING. FOR A SINGLE UNIT, OR GROUP OF ELEVATORS HAVING ONE COMMON MACHINE ROOM AND ONE COMMON HOISTWAY, PROVIDE ONE ADDITIONAL NORMALLY CLOSED CONTACT REPRESENTING ALL MACHINE ROOM AND HOISTWAY SMOKE DETECTORS. IF THE GROUP CONTAINS MORE THAN ONE HOISTWAY, AND HOISTWAY SMOKE DETECTORS ARE INSTALLED, OR IF THE GROUP HAS MORE THAN ONE MACHINE ROOM, PROVIDE ONE ADDITIONAL NORMALLY CLOSED CONTACT FOR EACH ELEVATOR. THE CONTACT IS TO REPRESENT THE SMOKE DETECTOR IN THE MACHINE ROOM FOR THAT PARTICULAR ELEVATOR, AND ANY SMOKE DETECTORS IN THE HOISTWAY CONTAINING THAT PARTICULAR ELEVATOR. C) PROVIDE CLASS "ABC" FIRE EXTINGUISHER IN MACHINE ROOMS. 19. IF SPRINKLERS ARE INSTALLED IN THE HOISTWAY, MACHINE ROOM, OR MACHINERY SPACES, THE LOCAL CODE MAY REQUIRE A MEANS TO AUTOMATICALLY DISCONNECT THE MAIN POWER SUPPLY OF THE AFFECTED ELEVATOR PRIOR TO THE APPLICATION OF WATER (CONFIRM WITH THE LOCAL CODE OFFICIAL). SMOKE DETECTORS SHALL NOT BE USED TO ACTIVATE SPRINKLERS IN HOISTWAYS, MACHINE ROOMS OR MACHINERY SPACES OR TO DISCONNECT THE MAIN LINE POWER SUPPLY. 20. TWO (2) 6" x 6" (152mm x 152mm) CUTOUTS ARE REQUIRED (NOT BY OTIS). THE ACTUAL LOCATION OF THE CUTOUTS FOR THE TO AND FROM OIL PIPE AND ELECTRICAL TROUGH WILL VARY DEPENDENT UPON MACHINE ROOM LOCATION AND CONFIGURATION.	
BUILDING	
LOCATION	SEISMIC ZONE
CONT. WITH	
OWNER	
ARCHT.	
SALES NO.	



AJC - Tracking Budget Est

B-4 Schedule "A" Attachment"D"

Augusta Richmond County Judicial Center - 36

Tracking Budget Estimate at Bid Package 04 - Critical Path
Exhibit B-4 Schedule "A" Attachment "D"

Project name AJC - Tracking Budget Est
B-4 Schedule "A" Attachment"D"
Augusta
GA

Estimator GRL/JGS/JCB/SWH

Bid date 2/20/2009 5:00 PM

Report format Sorted by 'Group phase/Phase'
'Phase' summary
Allocate addons
Print item notes



AJC - Tracking Budget Est

B-4 Schedule "A" Attachment"D"

		Labor		Material		Subcontract		Total	
Description	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
02000.0 SITE CONSTRUCTION									
02060.0	Site Demolition	182,668.00	sqft						
02080.0	Hazardous Material Abate	182,668.00	sqft						
02105.0	Site Engineering	182,668.00	sqft			0.092/sqft	16,720	0.092/sqft	16,720
02210.0	Site Grading	182,668.00	sqft			3.86 /sqft	704,621	3.86 /sqft	704,621
02211.0	Finish Site Grading/Bobca	182,668.00	sqft	0.103/sqft	18,875			0.103/sqft	18,875
02215.0	Erosion Control	182,668.00	sqft						
02280.0	Soil Treatment	182,668.00	sqft			0.031/sqft	5,580	0.031/sqft	5,580
02370.0	Bored/Augered Piles	182,668.00	sqft			4.68 /sqft	854,842	4.68 /sqft	854,842
02510.0	Asphaltic Concrete Paving	182,668.00	sqft			3.05 /sqft	556,414	3.05 /sqft	556,414
02515.0	Unit Pavers	182,668.00	sqft			0.50 /sqft	90,381	0.50 /sqft	90,381
02521.0	Concrete Curb & Gutter	182,668.00	sqft			0.74 /sqft	135,166	0.74 /sqft	135,166
02522.0	Walks & Pads	182,668.00	sqft	0.22 /sqft	39,909	0.384/sqft	70,075	0.602/sqft	109,984
02580.0	Pavement Marking	182,668.00	sqft			0.06 /sqft	10,719	0.06 /sqft	10,719
02660.0	Water Distribution	182,668.00	sqft						
02685.0	Gas Distribution Systems	182,668.00	sqft						
02710.0	Subdrainage Systems	182,668.00	sqft						
02720.0	Storm Sewerage	182,668.00	sqft						
02730.0	Sanitary Sewer	182,668.00	sqft						
02785.0	Electrical Power Transmis	182,668.00	sqft						
02790.0	Site Commun. Conduits	182,668.00	sqft			0.093/sqft	16,936	0.093/sqft	16,936
02801.0	Modular Retaining Walls	182,668.00	sqft						
02830.0	Fences	182,668.00	sqft			0.19 /sqft	34,330	0.19 /sqft	34,330
02870.0	Site & Street Furnishings	182,668.00	sqft	0.304/sqft	55,496	0.14 /sqft	25,000	0.441/sqft	80,496
02900.0	Landscaping	182,668.00	sqft			1.06 /sqft	193,418	1.06 /sqft	193,418
SITE CONSTRUCTION				0.63 /sqft	114,279	14.86 /sqft	2,714,202	15.484/sqft	2,828,481
182,668.00 sqft									
03000.0 CONCRETE									
03210.0	Reinforcing Steel	182,668.00	sqft	0.59 /sqft	106,929			0.59 /sqft	106,929
03300.0	Cast in Place Concrete	182,668.00	sqft	0.04 /sqft	7,348	0.06 /sqft	10,605	0.10 /sqft	17,953
03305.0	Concrete Pumping	182,668.00	sqft			0.01 /sqft	905	0.01 /sqft	905
03310.A	Structural Concrete	182,668.00	sqft			37.19 /sqft	6,793,093	37.19 /sqft	6,793,093
CONCRETE				0.63 /sqft	114,277	37.251/sqft	6,804,603	37.88 /sqft	6,918,880
182,668.00 sqft									
04000.0 MASONRY									
04200.0	Unit Masonry	182,668.00	sqft	3.20 /sqft	584,335	6.632/sqft	1,211,409	9.831/sqft	1,795,744
04200.2	Unit Masonry - CMU Walls	182,668.00	sqft	1.07 /sqft	195,076	0.944/sqft	172,461	2.012/sqft	367,537
04400.0	Stone	182,668.00	sqft			0.922/sqft	168,492	0.922/sqft	168,492
MASONRY				4.27 /sqft	779,411	8.50 /sqft	1,552,362	12.77 /sqft	2,331,774
182,668.00 sqft									
05000.0 METALS									
05120.0	Structural Steel	182,668.00	sqft			2.79 /sqft	509,404	2.79 /sqft	509,404
05160.0	Framing System/Pre-Engine	182,668.00	sqft						
05720.0	Ornamental Handrails Rail	182,668.00	sqft			0.67 /sqft	122,400	0.67 /sqft	122,400
METALS						3.46 /sqft	631,804	3.46 /sqft	631,804
182,668.00 sqft									
06000.0 WOOD AND PLASTICS									
06050.0	Fasteners & Adhesives	182,668.00	sqft		0.091/sqft	16,614		0.091/sqft	16,614
06100.0	Rough Carpentry	182,668.00	sqft	0.52 /sqft	94,457	0.193/sqft	35,182	0.71 /sqft	129,639

				Labor		Material		Subcontract		Total	
Description		Quantity		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
06220.0	Millwork	182,668.00	sqft					16.38 /sqft	2,991,265	16.38 /sqft	2,991,265
06240.0	Laminates	182,668.00	sqft					1.27 /sqft	231,629	1.27 /sqft	231,629
06450.0	Standing & Running Trim	182,668.00	sqft					0.39 /sqft	70,648	0.39 /sqft	70,648
06600.0	GFRC Fabrications	182,668.00	sqft			0.894/sqft	163,255	1.74 /sqft	317,080	2.63 /sqft	480,335
WOOD AND PLASTICS				0.52 /sqft	94,457	1.18 /sqft	215,051	19.77 /sqft	3,610,622	21.46 /sqft	3,920,130
182,668.00 sqft											
4,160.00 Labor hours											
07000.0 THERMAL AND MOISTURE PROT											
07100.0	Waterproofing	182,668.00	sqft					0.073/sqft	13,389	0.073/sqft	13,389
07150.0	Dampproofing	182,668.00	sqft					0.044/sqft	8,077	0.044/sqft	8,077
07240.0	Stucco Soffits	182,668.00	sqft					0.182/sqft	33,162	0.182/sqft	33,162
07250.0	Fireproofing	182,668.00	sqft					0.192/sqft	35,037	0.192/sqft	35,037
07510.0	Modified Bitumen Roofing	182,668.00	sqft					7.02 /sqft	1,282,213	7.02 /sqft	1,282,213
07610.0	Metal Roofing	182,668.00	sqft					2.013/sqft	367,797	2.013/sqft	367,797
07920.0	Sealants & Caulking	182,668.00	sqft					0.52 /sqft	94,853	0.52 /sqft	94,853
THERMAL AND MOISTURE PROT								10.043/sqft	1,834,527	10.043/sqft	1,834,527
182,668.00 sqft											
08000.0 DOORS AND WINDOWS											
08001.0	Doors, Frames, & Hardware	182,668.00	sqft			4.422/sqft	807,668	0.824/sqft	150,580	5.25 /sqft	958,248
08360.0	Overhead Doors	182,668.00	sqft					0.771/sqft	140,882	0.771/sqft	140,882
08410.0	Aluminum Entrances & Stor	182,668.00	sqft					5.46 /sqft	996,481	5.46 /sqft	996,481
DOORS AND WINDOWS						4.422/sqft	807,668	7.051/sqft	1,287,943	11.472/sqft	2,095,611
182,668.00 sqft											
09000.0 FINISHES											
09250.0	Gypsum Wallboard	182,668.00	sqft					19.92 /sqft	3,638,033	19.92 /sqft	3,638,033
09300.0	Tile	182,668.00	sqft					0.70 /sqft	127,759	0.70 /sqft	127,759
09380.0	Terrazzo	182,668.00	sqft					2.644/sqft	482,901	2.644/sqft	482,901
09525.0	Resilient Flooring	182,668.00	sqft					0.40 /sqft	72,351	0.40 /sqft	72,351
09680.0	Carpet	182,668.00	sqft					2.772/sqft	506,309	2.772/sqft	506,309
09780.0	Floor Treatment	182,668.00	sqft			0.04 /sqft	7,173	0.071/sqft	13,000	0.11 /sqft	20,173
09800.0	Special Coatings	182,668.00	sqft					1.174/sqft	214,375	1.174/sqft	214,375
09900.0	Painting	182,668.00	sqft					1.494/sqft	272,906	1.494/sqft	272,906
09950.0	Wallcovering	182,668.00	sqft					0.43 /sqft	78,280	0.43 /sqft	78,280
FINISHES						0.04 /sqft	7,173	29.594/sqft	5,405,914	29.633/sqft	5,413,087
182,668.00 sqft											
10000.0 SPECIALTIES											
10115.0	Marker Boards	182,668.00	sqft					0.02 /sqft	3,427	0.02 /sqft	3,427
10165.0	Toilet Partitions & Acces	182,668.00	sqft					0.67 /sqft	122,385	0.67 /sqft	122,385
10200.0	Louvers & Vents	182,668.00	sqft								
10260.0	Wall & Corner Guards	182,668.00	sqft			0.03 /sqft	5,350			0.03 /sqft	5,350
10270.0	Access Flooring	182,668.00	sqft								
10350.0	Flagpoles	182,668.00	sqft					0.08 /sqft	13,950	0.08 /sqft	13,950
10440.0	Signage	182,668.00	sqft					0.821/sqft	150,000	0.821/sqft	150,000
10500.0	Lockers	182,668.00	sqft								
10520.0	Fire Ext. Cabinets, Acces	182,668.00	sqft			0.03 /sqft	4,711			0.03 /sqft	4,711
10650.0	Operable Partitions	182,668.00	sqft								
10850.0	Miscellaneous Specialties	182,668.00	sqft								
SPECIALTIES						0.06 /sqft	10,061	1.59 /sqft	289,762	1.641/sqft	299,823
182,668.00 sqft											



AJC - Tracking Budget Est

B-4 Schedule "A" Attachment"D"

Description		Quantity	Labor		Material		Subcontract		Total			
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount		
11000.0 EQUIPMENT												
11020.0	Security & Vault Equipmen	182,668.00	sqft									
11130.0	Audio Visual Equipment	182,668.00	sqft									
11190.0	Security and Detention Eq	182,668.00	sqft					4.05 /sqft	738,830	4.05 /sqft	738,830	
11452.0	Residential Appliance	182,668.00	sqft									
							4.05 /sqft	738,830	4.05 /sqft	738,830		
182,668.00 sqft												
12000.0 FURNISHINGS												
12500.0	Window Treatments	182,668.00	sqft					0.09 /sqft	16,485	0.09 /sqft	16,485	
12690.0	Entry Mats	182,668.00	sqft			0.023/sqft	4,271	0.022/sqft	3,992	0.05 /sqft	8,263	
12700.0	Multiple Seating	182,668.00	sqft					0.692/sqft	126,447	0.692/sqft	126,447	
							0.023/sqft	4,271	0.804/sqft	146,924	0.83 /sqft	151,195
182,668.00 sqft												
13000.0 SPECIAL CONSTRUCTION												
13120.0	Division 13 Subcontractor	182,668.00	sqft					0.15 /sqft	27,374	0.15 /sqft	27,374	
							0.15 /sqft	27,374	0.15 /sqft	27,374		
182,668.00 sqft												
14000.0 CONVEYING SYSTEMS												
14200.0	Elevators	182,668.00	sqft					4.34 /sqft	791,900	4.34 /sqft	791,900	
14400.0	Lifts	182,668.00	sqft									
							4.34 /sqft	791,900	4.34 /sqft	791,900		
182,668.00 sqft												
15000.0 MECHANICAL												
15300.0	Fire Protection	182,668.00	sqft					2.361/sqft	431,300	2.361/sqft	431,300	
15400.0	Plumbing	182,668.00	sqft									
15500.0	HVAC	182,668.00	sqft					27.38 /sqft	5,001,338	27.38 /sqft	5,001,338	
							29.741/sqft	5,432,638	29.741/sqft	5,432,638		
182,668.00 sqft												
16000.0 ELECTRICAL												
16010.0	Electrical Subcontractor	182,668.00	sqft					28.693/sqft	5,241,329	28.693/sqft	5,241,329	
16600.0	Special Systems	182,668.00	sqft									
							28.693/sqft	5,241,329	28.693/sqft	5,241,329		
182,668.00 sqft												
17000.0 MISCELLANEOUS												
17100.0	Miscellaneous	182,668.00	sqft									

AJC - Tracking Budget Est

B-4 Schedule "A" Attachment"D"

Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit
Labor	94,457		4,160.000	hrs		
Material	2,052,192					
Subcontract	36,510,736					
Equipment						
Other						
	<u>38,657,385</u>	38,657,385				
Sub Bonds	<u>730,215</u>			2.000 %	C	
	730,215	39,387,600				
Dfl Desion/Market Clnov	<u>1,384,320</u>				I	
	1,384,320	40,771,920				
Escalation	<u>1,672,362</u>			4.102 %	T	
	1,672,362	42,444,282				
C/M/GC Contingency	<u>1,061,107</u>			2.500 %	T	
	1,061,107	43,505,389				
Lump Sum GC/Fee/Precon	<u>4,994,611</u>				L	
	4,994,611	48,500,000				
Total		48,500,000				

AJC Exhibit B-4 - Bid Package Four
Schedule "A" - Attachment "E"

2/20/2009 11:24 AM

Item	Description	Total		
		Amount		
		AJC-36	AJC-30	Variance
02000.0	SITE CONSTRUCTION			
02060.0	Site Demolition			
02080.0	Hazardous Material Abate			
02105.0	Site Engineering	16,720	16,720	0
02210.0	Site Grading	704,621	704,621	0
02211.0	Finish Site Grading/Bobca	17,640	17,640	0
02215.0	Erosion Control			
02280.0	Soil Treatment	5,580	5,580	0
02370.0	Bored/Augered Piles	854,842	854,842	0
02510.0	Asphaltic Concrete Paving	556,414	556,414	0
02515.0	Unit Pavers	90,381	90,381	0
02521.0	Concrete Curb & Gutter	135,166	135,166	0
02522.0	Walks & Pads	107,373	107,373	0
02580.0	Pavement Marking	10,719	10,719	0
02660.0	Water Distribution			
02685.0	Gas Distribution Systems			
02710.0	Subdrainage Systems			
02720.0	Storm Sewerage			
02730.0	Sanitary Sewer			
02785.0	Electrical Power Transmis			
02790.0	Site Commun. Conduits	16,936	16,936	0
02801.0	Modular Retaining Walls			
02830.0	Fences	34,330	34,330	0
02870.0	Site & Street Furnishings	76,865	76,865	0
02900.0	Landscaping	193,418	193,418	0
	SITE CONSTRUCTION	2,821,005	2,821,005	0
03000.0	CONCRETE			
03210.0	Reinforcing Steel	99,934	99,934	0
03300.0	Cast in Place Concrete	17,472	17,472	0
03305.0	Concrete Pumping	905	905	0
03310.A	Structural Concrete	6,793,093	6,793,093	0
	CONCRETE	6,911,404	6,911,404	0
04000.0	MASONRY			
04200.0	Unit Masonry	1,757,517	1,757,517	0
04200.2	Unit Masonry - CMU Walls	354,775	354,775	0
04400.0	Stone	168,492	168,492	0
	MASONRY	2,280,784	2,280,784	0
05000.0	METALS			
05120.0	Structural Steel	509,404	168,000	341,404
05160.0	Framing System/Pre-Engine			
05720.0	Ornamental Handrails Rail	122,400	122,400	0
	METALS	631,804	290,400	341,404
06000.0	WOOD AND PLASTICS			
06050.0	Fasteners & Adhesives	15,527	15,527	0
06100.0	Rough Carpentry	127,337	127,337	0
06220.0	Millwork	2,991,265	2,991,265	0
06240.0	Laminates	231,629	231,629	0
06450.0	Standing & Running Trim	70,648	70,648	0
06600.0	GFRC Fabrications	469,655	469,655	0

AJC Exhibit B-4 - Bid Package Four
Schedule "A" - Attachment "E"

2/20/2009 11:24 AM

Item	Description	Total		
		Amount		
		AJC-36	AJC-30	Variance
	WOOD AND PLASTICS	3,906,061	3,906,061	0
07000.0	THERMAL AND MOISTURE PROT			
07100.0	Waterproofing	13,389	13,389	0
07150.0	Dampproofing	8,077	8,077	0
07240.0	Stucco Soffits	33,162	33,162	0
07250.0	Fireproofing	35,037	35,037	0
07510.0	Modified Bitumen Roofing	1,282,213	1,282,213	0
07610.0	Metal Roofing	367,797	367,797	0
07920.0	Sealants & Caulking	94,853	94,853	0
	THERMAL AND MOISTURE PROT	1,834,527	1,834,527	0
08000.0	DOORS AND WINDOWS			
08001.0	Doors, Frames, & Hardware	905,410	905,410	0
08360.0	Overhead Doors	140,882	140,882	0
08410.0	Aluminum Entrances & Stor	996,481	996,481	0
	DOORS AND WINDOWS	2,042,773	2,042,773	0
09000.0	FINISHES			
09250.0	Gypsum Wallboard	3,638,033	3,083,909	554,124
09300.0	Tile	127,759	127,759	0
09380.0	Terrazzo	482,901	482,901	0
09525.0	Resilient Flooring	72,351	72,351	0
09680.0	Carpet	506,309	506,309	0
09780.0	Floor Treatment	19,704	19,704	0
09800.0	Special Coatings	214,375	214,375	0
09900.0	Painting	272,906	272,906	0
09950.0	Wallcovering	78,280	78,280	0
	FINISHES	5,412,618	4,858,494	554,124
10000.0	SPECIALTIES			
10115.0	Marker Boards	3,427	3,427	0
10165.0	Toilet Partitions & Acces	122,385	122,385	0
10200.0	Louvers & Vents			
10260.0	Wall & Corner Guards	5,000	5,000	0
10270.0	Access Flooring			
10350.0	Flagpoles	13,950	13,950	0
10440.0	Signage	150,000	150,000	0
10500.0	Lockers			
10520.0	Fire Ext. Cabinets, Acces	4,403	4,403	0
10650.0	Operable Partitions			
10850.0	Miscellaneous Specialties			
	SPECIALTIES	299,165	299,165	0
11000.0	EQUIPMENT			
11020.0	Security & Vault Equipmen			
11130.0	Audio Visual Equipment		18,000	(18,000)
11190.0	Security and Detention Eq	738,830	1,250,830	(512,000)
11452.0	Residential Appliance			
11900.0	Acoustical Wall Treatment		85,998	(85,998)



AJC Exhibit B-4 - Bid Package Four
Schedule "A" - Attachment "E"

2/20/2009 11:24 AM

Item	Description	Total		
		Amount		
		AJC-36	AJC-30	Variance
	EQUIPMENT	738,830	1,354,828	(615,998)
12000.0	FURNISHINGS			
12500.0	Window Treatments	16,485	16,485	0
12690.0	Entry Mats	7,984	7,984	0
12700.0	Multiple Seating	126,447	126,447	0
	FURNISHINGS	150,916	150,916	0
13000.0	SPECIAL CONSTRUCTION			
13120.0	Division 13 Subcontractor	27,374	100,770	(73,396)
	SPECIAL CONSTRUCTION	27,374	100,770	(73,396)
14000.0	CONVEYING SYSTEMS			
14200.0	Elevators	791,900	782,000	9,900
14400.0	Lifts			
	CONVEYING SYSTEMS	791,900	782,000	9,900
15000.0	MECHANICAL			
15300.0	Fire Protection	431,300	582,470	(151,170)
15400.0	Plumbing		1,638,219	(1,638,219)
15500.0	HVAC	5,001,338	4,569,631	431,707
	MECHANICAL	5,432,638	6,790,321	(1,357,683)
16000.0	ELECTRICAL			
16010.0	Electrical Subcontractor	5,241,329	3,364,175	1,877,154
16600.0	Special Systems		203,547	(203,547)
16610.0	Fire Alarm System		246,602	(246,602)
16700.0	k		359,074	(359,074)
	ELECTRICAL	5,241,329	4,173,398	1,067,931
17000.0	MISCELLANEOUS			
17100.0	Miscellaneous			
	Total	38,523,129	38,596,846	(73,718)



AJC Exhibit B-4 - Bid Package Four
Schedule "A" - Attachment "E"

2/20/2009 11:24 AM

Item	Description	Total		
		Amount		
		AJC-36	AJC-30	Variance
Estimate Totals				
	Labor	94,457	94,457	0
	Material	1,917,936	1,917,936	0
	Subcontract	36,510,736	36,584,453	(73,717)
	Equipment	0	0	0
	Other	0	0	0
		<u>38,523,129</u>	<u>38,596,846</u>	<u>(73,717)</u>
	Sales Tax	134,256	134,256	0
		<u>38,657,385</u>	<u>38,731,102</u>	<u>(73,717)</u>
	Sub Bonds	730,215	731,689	(1,474)
		<u>39,387,600</u>	<u>39,462,791</u>	<u>(75,191)</u>
	Dtl Design/Market Ctny	1,384,320	1,309,129	75,191
		<u>40,771,920</u>	<u>40,771,920</u>	<u>0</u>
	Escalation	1,672,362	1,672,362	0
		<u>42,444,282</u>	<u>42,444,282</u>	<u>0</u>
	CM/GC Contingency	1,061,107	1,061,107	0
		<u>43,505,389</u>	<u>43,505,389</u>	<u>0</u>
	Lump Sum GC/Fee/Precon	4,994,611	4,994,611	0
		<u>48,500,000</u>	<u>48,500,000</u>	<u>0</u>
	Total	<u><u>48,500,000</u></u>	<u><u>48,500,000</u></u>	<u><u>0</u></u>

ARC JC - EXHIBIT B-4 - BID PACKAGE FOUR
SCHEDULE "A" - ATTACHMENT "F"
UNIT COSTS
FEBRUARY 20, 2009

EROSION CONTROL		Unit Cost	Unit
Additional DOT Type C Silt Fence		\$4.87	lnft
48" Orange Tree Save Fence		\$3.94	lnft
Sd2 - E - Drop Inlet Silt Protection		\$326.11	each
Sd2 - F - Drop Inlet Silt Protection		\$281.13	each
Sd2 - S - Curb Inlet Silt Protection		\$6.52	each
Straw Matting Blankets		\$4.22	sqyd
Additional Temporary Grassing		\$1,360.65	acre
Haul in and place Crushed Stone at Construction Outlet		\$33.74	ton
EARTHWORK			
Excavate, Load and Dispose Off Site of Trash, Debris and Unsuitable Soils		\$11.25	cuyd
Mass Rock Excavation; Ripped (Dispose on Site)		\$33.74	cuyd
Mass Rock Excavation; Ripped (Dispose off Site)		\$39.36	cuyd
Mass Rock Excavation; Blasted (Dispose on Site)		\$84.34	cuyd
Mass Rock Excavation: Blasted (Dispose off Site)		\$89.96	cuyd
Trench Rock Excavation; Dug (Dispose on Site)		\$44.98	cuyd
Trench Rock Excavation; Dug (Dispose off Site)		\$50.60	cuyd
Trench Rock Excavation; Blasted (Dispose on Site)		\$89.96	cuyd
Trench Rock Excavation; Blasted (Dispose off Site)		\$95.58	cuyd
Mucking / Over Excavation for Unsuitable Soils (Dispose on Site)		\$5.62	cuyd
Mucking / Over Excavation for Unsuitable Soils (Dispose off Site)		\$11.25	cuyd
Haul In and Compact Suitable Fill (Using On Site Fill Material)		\$5.62	cuyd
Haul In and Compact Suitable Fill (Haul In New Fill Material)		\$12.93	cuyd
Excavate, Load , Transport, Place and Compact Suitable Fill (Using On Site Material)		\$11.25	cuyd
Provide, Haul, Place and Compact Suitable Fill (Using Off Site Fill Material)		\$16.87	cuyd
Haul in and Spreading of Additional Topsoil		\$22.49	cuyd
Haul in, Place and Compact #3 or #34 stone		\$28.11	ton
Haul in, Place and Compact #57 stone		\$22.49	ton
Haul in, Place and Compact Crush and Run Stone		\$24.74	ton
Haul in and Place Rip Rap Stone		\$39.36	ton
Concrete Inverts at Manholes		\$281.13	each

UNIT COST CLARIFICATION

1. On site shall be defined as located on the property within Construction Limits.

2. Offsite shall be defined as located off of the property and beyond the construction limits.

3. Fill material for excavated unsuitable soils, unsuitable conditions, and rock are **NOT** to be included in unsuitable soils, unsuitable conditions, or rock unit cost. The cost for replacement fill materials shall be found in the unit cost items associated with hauling and compacting suitable fill.

4. Dug shall be defined as removal of rock using Mechanical Bucket and/or Hammer Type Ram.



**Engineering Services Committee Meeting
3/9/2009 1:00 PM**

Approve payment to Eagle Utility for emergency repair work on Doug Barnard Parkway.

Department:

Caption: Motion to approve \$29,626.25 to Eagle Utility for emergency repair work on Doug Barnard Parkway.

Background: On December 31, 2008 Augusta Utilities was alerted to a possible sanitary sewer cave in on Doug Barnard Parkway near Dan Bowles Road. In the interest of public safety, Augusta utilities deployed several personnel to the site to temporarily reroute traffic around the depression in the pavement. Eagle Utility was contacted and able to respond with a crew and equipment quickly to investigate and repair the cause of the pavement collapse. Eagle crews worked New Year's Eve, New Year's Day and two more days to repair the problem and return the road to a state of use.

Analysis: Augusta Utilities Supervisors contacted Eagle Utility to make the repairs on Doug Barnard because they could respond quickly and stay on task until completion. Due to the nature of a road collapse and the possible negative effect on the travelling public, time is of the essence in these situations. Augusta Utilities staff evaluated several options and concluded Eagle Utility to be the most fair and reasonable.

Financial Impact: Funds are available from the following: 507043420-5425210/80900005-5425210

Alternatives: None

Recommendation: Approve payment to Eagle Utility in the amount of \$29,626.25 for emergency repair work.

Funds are Available in the Following Accounts: 507043420-5425210/80900005-5425210

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Law.
Administrator.
Clerk of Commission**

Eagle Utility Contracting, Inc.
1350 Branch Road
Bishop, Georgia 30621-1729
(706) 769-6015

January 5, 2009

Augusta Utilities Department
Engineering & Construction Department
360 Bay Street, Suite 180
Augusta, Georgia 30901

Invoice #012683-001
Emergency Repairs on Doug
Bernard Parkway

Attention: Mr. Jerry Delaughter

INVOICE

Item	Description	Unit Price	Total
1.	290 Volvo Excavator 221/2 Hrs.	\$250.00	\$5,625.00
2.	10-Wheel Dump Truck with Driver-8 Hrs.	\$150.00	\$1,200.00
3.	L70 Volvo Loader 221/2 Hrs.	\$130.00	\$2,925.00
4.	Tool Truck for 221/2 Hrs.	\$150.00	\$3,375.00
5.	Compressor for 141/2 Hrs.	\$110.00	\$1,595.00
6.	Roller for 9 Hrs.	\$150.00	\$1,350.00
7.	Mobilization on Holiday		\$2,950.00
8.	Demobilization on Holiday		\$2,950.00
9.	2-Men Holiday pay 221/2 Hrs. each	\$45.00 hr.	\$2,025.00
10.	1-Man Holiday pay 221/2 Hrs.	\$28.50 hr.	\$ 641.25
11.	1-Superintendent Holiday pay	\$67.50 hr.	\$1,518.75
12.	L70 Loader on Monday 8 Hrs.	\$130.00	\$1,040.00
13.	Dump Truck w/Driver 8 Hrs. Monday	\$150.00	\$1,200.00
14.	Loader Operator for 8 hrs. Monday	\$67.50	\$ 540.00
15.	GAB-15 Tons	\$9.75 Ton	\$ 146.25
16.	Concrete—11.5 CY	\$110.00 CY	\$1,265.00
	TOTAL		\$29,626.25

Please pay from this Invoice.



**Engineering Services Committee Meeting
3/9/2009 1:00 PM**

Augusta Levee Certification/FERC Dam Safety Performance Monitoring Program

Department:	Abie L. Ladson, PE, CPESC, Director of Engineering
Caption:	Approve Capital Project Budget (CPB) and Supplemental Agreement Number One for the FERC Dam Safety Performance Monitoring Program in the amount of \$624,470.00 to certify the Augusta Levee in accordance with both FEMA (Federal Emergency Management Agency), and the Army Corp of Engineers guidelines.
Background:	The Augusta City Levee is approximately 16,000 feet long (11.55 miles long), and extends from Lake Olmstead to Butler Creek. The original levee was constructed between 1908 and 1916, and in 1937 the U.S. Army Corps of Engineers raised the levee after the floods of 1929. In 1941, the Army Corp of Engineers passed the ownership of the levee to the City of Augusta. In 2007, Congress passed the National Levee Safety Act to establish an inventory and inspection program for the nation's levees because of the levee failures during Hurricane Katrina and other catastrophic levee failures along the Mississippi in the last decade. The City of Augusta has entered into an agreement with FEMA as a requirement for the new digital maps. The City would be designated as a Provisionally Accredited Levee (PAL) until the levee is certified. FEMA is requiring the Augusta Levee to be certified by a qualified Professional Engineer to insure the area behind the levee is protected in the event of a 100-year storm. If the levee is not certified under the PAL Agreement by December 28, 2009, the residents behind the levee would require flood insurance. A non-certification of the levee would affect approximately 4,000 parcels (52,000 acres).
Analysis:	Augusta-Richmond County Utilities Department is currently under contract with the Cranston Engineering Group, Inc. to have the Augusta Canal licensed through the Federal Energy Regulatory Commission (FERC). The Augusta Levee Certification would be a direct overlap of the licensing for the canal on the western portion of the levee. The levee certification process will consist of detail surveying and engineering services (A detailed scope services is attached). The estimated time to complete the certification process is six months.
Financial Impact:	Funds of \$340,975.00 are available in the Lake Aumond Dam Improvement Project to be transferred to the Augusta Levee project as well as an additional \$283,495.00 to be transferred from Phase IV Recapture to fully fund the project.
Alternatives:	Cover Memo 1) Approve Capital Project Budget (CPB) and Supplemental Agreement Number One for the FERC Dam Safety Performance Monitoring Program in the amount of \$624,470.00 to certify the Augusta Levee in accordance with

both FEMA (Federal Emergency Management Agency), and the Army Corp of Engineers guidelines. 2) Do not approve, and require the residents behind the levee to purchase flood insurance.

Recommendation: Approve Alternative Number One.

**Funds are Available in
the Following
Accounts:** 324-041110-6011110/207824999-6011110 - \$283,495 324-04-1110/2038240088 - \$340,975

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Law.
Administrator.
Clerk of Commission**

**AUGUSTA-RICHMOND COUNTY
ENGINEERING DEPARTMENT
SUPPLEMENTAL AGREEMENT**

**Project No.507-04-80320115
SUPPLEMENTAL AGREEMENT NO 1.**

WHEREAS, We, **Cranston Robertson & Whitehurst**, Consultants entered into a contract with Augusta-Richmond County on February 17, 2009, for engineering design services associated with the Augusta Canal FERC Licensing Process Project, Project No. 507-043410-80320115, and

WHEREAS, certain revisions to the design requested by Augusta-Richmond County are not covered by the scope of the original contract, we desire to submit the following Supplemental Agreement to-wit:

Additional Engineering services required to certify the Augusta Levee in accordance with both FEMA (Federal Emergency Management Agency), Army Corps of Engineers guidelines.

It is agreed that as a result of the above modification the contract amount is increased by **\$624,470** from **\$250,905** to a total of **\$875,375**.

This agreement in no way modifies or changes the original contract of which it becomes a part, except as specifically stated herein.

NOW, THEREFORE, **Cranston Robertson & Whitehurst**, Consultant, hereby agree to said Supplemental Agreement consisting of the above mentioned items and prices, and agree that this Supplemental Agreement is hereby made a part of the original contract to be performed under the specifications thereof, and that the original contract is in full force and effect, except insofar as it might be modified by this Supplemental Agreement.

This ____ day of ____, 2009.

RECOMMEND FOR APPROVAL:

CITY OF AUGUSTA-RICHMOND COUNTY
AUGUSTA, GEORGIA

Deke Copenhaver, Mayor

Approved: Date _____
[ATTACHED CORPORATE SEAL]

ATTEST:

Approved: Date _____
[ATTACHED CORPORATE SEAL]

ATTEST:

Title: _____
For changes greater than \$20,000)

Title: _____ (SA01-

Augusta-Richmond County, Georgia

CPB# 324-04-000000000

**CAPITAL PROJECT BUDGET
AUGUSTA LEVEE CERTIFICATION/FERC DAM SAFETY PERFORMANCE
MONITORING PROGRAM**

BE IT ORDAINED by the Commission-Council of Augusta-Richmond County, Georgia that the following Capital Project Budget is hereby adopted:

Section 1: The project change is authorized to CPB# NA. The project authorized is to certify the Augusta Levee in accordance with both FEMA (Federal Emergency Management Agency), and the Army Corps of Engineers guidelines. The total estimated cost this project is \$624,470.00 and will be funded by the Special One Percent Sales Tax, Phase IV Recapture Funds.

Section 2: The following revenues are anticipated to be available to the Consolidated Government to complete the project.

SPLOST Lake Aumond Dam	\$	340,975
Special 1% Sales Tax, Phase IV Recapture	\$	<u>283,495</u>
	\$	624,470

Section 3: The following amounts are appropriated for the project:

	By Basin	By District
Varies	\$624,470	Varies \$ 624,470

Section 4: Copies of this Capital Project Budget shall be made available to the Comptroller for direction in carrying out this project.

Adopted this _____ day of _____.

Approved

Honorable Deke Copenhaver, Mayor

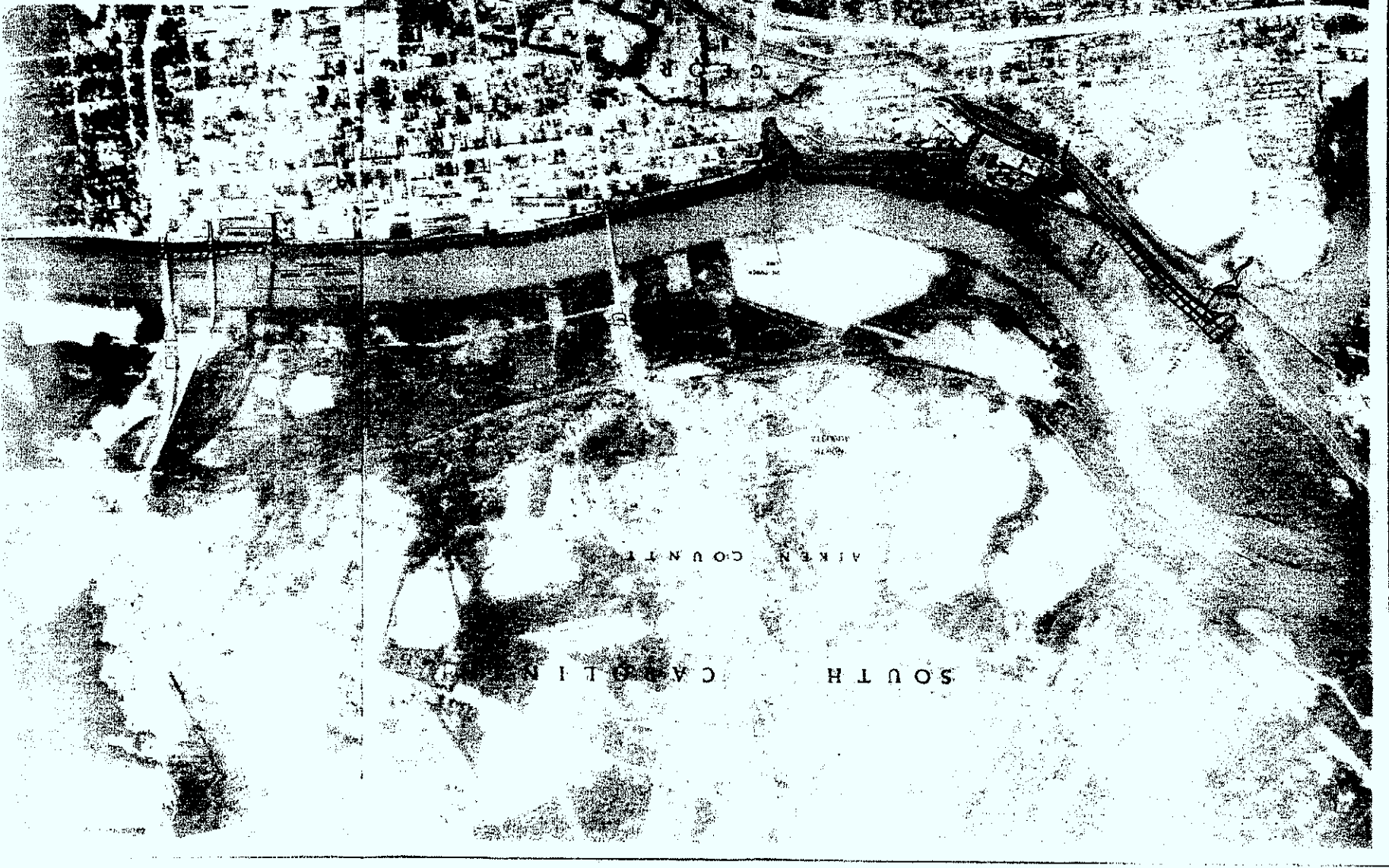
Original-Commission Council Office
Copy-Engineering Department
Copy-Finance Department
Copy-Procurement Department

**CAPITAL PROJECT BUDGET
AUGUSTA LEVEE CERTIFICATION/FERC DAM SAFETY PERFORMANCE
MONITORING PROGRAM**

<u>SOURCE OF FUNDS</u>	CPB AMOUNT <u>CPB</u>
SPLOST PHASE IV 324-041110-5414910-203824088	(\$330,000)
SPLOST PHASE IV 324-041110-6011110-203824088	(\$10,975)
SPLOST PHASE IV RECAPTURE 324-041110-207824999	(\$283,495)
TOTAL SOURCES:	(\$624,470)

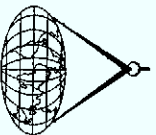
<u>USE OF FUNDS</u>	
ENGINEERING 324-04-1110-5212115/000000000	\$624,470
TOTAL USES:	\$624,470

NOT ACCESSIBLE
AT HIGH WATER
ACCESS
LEVEE ROAD



NOT ACCESSIBLE
AT HIGH WATER
ACCESS
LEVEL ROAD





Cranston Engineering Group, P.C.
ENGINEERS - PLANNERS - SURVEYORS

452 ELLIS STREET, AUGUSTA, GEORGIA 30901
POST OFFICE BOX 2446, AUGUSTA, GEORGIA 30903
TELEPHONE 706-722-1588
FACSIMILE 706-722-8379
mail@cranstonengineering.com

THOMAS H. ROBERTSON, PE, AICP, RLS
JAMES B. CRANFORD, JR., PE
DENNIS J. WELCH, PE

February 13, 2009

J. CRAIG CRANSTON, PE, RLS
(RETIRED)

Mr. Abie Ladson, P.E.
Director of Engineering
Augusta Engineering Department
505 Telfair Street
Augusta, Georgia 30901

Re: Augusta City Levee - FEMA Certification
Our File No. 2009-0032

Dear Mr. Ladson:

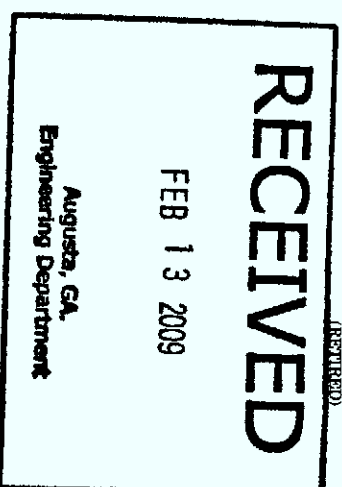
In accordance with your request, we are pleased to offer the following proposal for accomplishing the necessary engineering, surveying, geotechnical investigations, and reporting services associated with complying with the requirements of the Federal Emergency Management Agency (FEMA) on levee certification for the City of Augusta Levee. This proposal states our understanding of the project scope, the general tasks that will be needed to comply with the regulations, as well as the fees and anticipated schedule for accomplishing the work.

GENERAL

The Augusta City Levee System includes the earthen levee embankment, gate structures, closures and retaining walls. The limits of the levee system are as shown on the attached set of maps prepared by the U.S. Army Corps of Engineers (USACE), dated January 1977. The features along the levee include six gate structures, four breaches, and some 16 retaining walls.

The levee is an approximately 61,000-foot long earthen flood control structure built on the Georgia side of the Savannah River in Augusta, Georgia. Original construction of the levee began in 1908 and was completed in 1916. After being damaged during flooding in 1929, the levee was raised. The raising of the levee was designed and constructed by the U.S. Army Corps of Engineers. These improvements were completed in 1937, and in 1941 the Corps turned the levee over to the City of Augusta for operation and maintenance.

The levee extends south from near Lake Olmstead (where an approximately 1500-foot section of the levee is part of the Augusta Canal dike) to Butler Creek. The embankment slope



height varies and is typically about 20 feet, but some parts are higher, especially where it approaches the Savannah River. A review of USACE documents indicates the upper 18 feet of the riverward embankment slope is at a 2.5:1 inclination and the lower part flattens to a 3:1 inclination. In some areas it appears the slope is flatter. The landward embankment slope typically appears to be at a 2.5:1 or flatter inclination.

The crest width varies from about 10 feet to over 20 feet. In the downtown area and nearby developed areas, much of the crest is covered with brick pavers or asphalt pavement. Waters Edge Drive and a 0.4 mile section of Riverwatch Parkway are constructed atop the levee. The crest in other areas is grassed.

The upper part of the earthen levee between 10th Street and 11th Street is retained by an approximately 980-foot long sheet pile wall. The sheet pile wall is on the riverward side of the embankment. The lower part of the landward side of the embankment in this area is confined by a concrete retaining wall. Between this section and 6th Street, much of the landward side is also confined by concrete retaining walls (and possibly basement walls).

Pipelines appear to be present beneath the south part of the levee in the area of several industrial facilities. Also, about 50 houses have been constructed on the riverward embankment slope at Waters Edge Drive, and bridge bent foundations are located near the levee embankment toe in some areas. Power lines and light poles protrude from the embankment at various locations.

In August 2007, the City was notified that as a result of the Federal Emergency Management Agency's initiative to put all of the Flood Insurance Rate Maps into a digital format, FEMA required that the Augusta Levee be certified by a registered professional engineer in accordance with Section 65.10 of the National Flood Insurance Program regulations.

On December 28, 2007, as a requirement of the new digital maps, the City of Augusta entered into an agreement with FEMA, whereby the levee is designated as a Provisionally Accredited Levee (PAL) on the new digital maps and the area behind the levee is shown as a 500 year floodplain (an "at risk area") until such time as the levee is certified. The area behind the levee affected by the PAL status involves some portion of, or all of, approximately 4000 parcels which encompasses approximately 52,000 acres.

Should the levee not be certified under the PAL Agreement by December 28, 2009, then the area behind the levee now shown as a 500 year floodplain would become a 100 year floodplain; therefore, floodplain management regulations and federally backed flood insurance would be required for property owners.

SCOPE OF WORK

The services proposed herein are intended to provide the technical bases for the City's compliance with the applicable requirements for conforming to Section 65.10 of the National Flood Insurance Program regulations, also known as Title 44 of the Code of Federal Regulations.

Mr. Abie Ladson, P.E.

February 13, 2009

Page 3

These Federal Emergency Management Agency regulations require certification of any levee shown on a Flood Insurance Rate Map as providing protection from the 1-percent-annual-chance flood, or base flood. The required data and documentation, which address the integrity of a levee and its ability to provide adequate protection from the base flood, must be certified by a registered professional engineer, as mentioned above. The components of this program and a detailed breakdown of services we are proposing are described as follows:

1. SURVEYING SERVICES

A. Control Surveys

The horizontal datum will be based on the North American Datum of 1983 and the vertical datum on the North American Vertical Datum of 1988. The control surveys will be needed to locate approximately 40 picture points to be used in the topographic mapping, locate existing property corners, encroachments, soil boring locations and access routes.

B. Aerial Photography and Topographic Mapping

Black and white photographs will be obtained of the Augusta Levee from Lake Olmstead to the Augusta Regional Airport. Photographs will be at a scale of 1 inch = 400 feet suitable for producing one foot contours. The approximate length was scaled at 11.5 miles and the width will be 1,000 feet. From these photographs, a one foot topographic map of an area 11.5 miles long and 1,000 feet wide (1,454± acres) at a scale of 1 inch = 100 feet will be made. We will accomplish vertical control surveys to relate the elevations to the North American Vertical Datum of 1988.

C. Enhance Aerial Topographic Map

We propose to locate encroachments, access routes, fences and other features along the 11.5 mile route which could interfere with the operation of the Augusta Levee. We also propose to field locate approximately 70 bore holes along the route with horizontal position based on The North American Datum of 1983 and the vertical datum based on The North American Vertical Datum of 1988.

D. Property Research, Surveys and Boundary Resolution

We propose to research approximately 180 adjacent parcels to the Augusta Levee obtaining deeds and plats for future mapping. Using the above data, together with the existing boundary plats of record, we propose to prepare a compiled boundary of the existing levee at a scale of 1 inch = 100 feet and to include it on the topographic map.

E. Establishment of Baseline Monuments

Concrete monuments will be set every 2,500 feet along the 11.5 mile route of the Augusta Levee with continuing station numbers to be used to field locate improvements.

2. ENGINEERING SERVICES

A. Regulatory Coordination

We will provide coordination between the City of Augusta, the Federal Emergency Management Agency and the U. S. Army Corps of Engineers as necessary to produce the required analyses and documentation. This coordination will include an estimated three separate trips to Atlanta to meet with the applicable FEMA representatives at various stages in the process to ensure compliance and one trip to Savannah to meet with the Corps of Engineers, if necessary.

B. Research and Analysis of Supporting Technical Information

The Supporting Technical Information is an assemblage of all of the known engineering, construction, and other technical information that is pertinent to the safety of the dikes and associated features on the project. An outline of the topics and materials to be included is as following:

- (1) *Detailed Description* of the project works and drawings.
- (2) *Construction History* from prior inspection reports, construction reports, and other sources.
- (3) *Standard Operations and Maintenance Procedures* for maintenance, inspection, and gate operations by flood situation and by season, etc. This information will be summarized from the latest available Corps of Engineers data and from operation and maintenance procedures of Augusta Public Works Department.
- (4) *Geologic and Geotechnical Investigations for the Project Site*. It is intended that this section be derived from existing published works and reports from previous geotechnical analyses performed in the vicinity of the project.
- (5) *Hydrology and Hydraulics*. Provide supporting information to document the levee design flood and base flood (1-percent-annual-chance flood). This information will be taken from the latest publish Flood Insurance Rate Maps as produced by the Federal Emergency Management Agency. If any new hydrologic or hydraulic studies would become necessary, these efforts would be beyond the scope of this proposal. A separate proposal for such services can be furnished, if they should become required.
- (6) *Stability and Stress Analyses of Project Structures*. This material will be summarized from previous engineering studies and reports, as available, covering the assumptions, methods of analyses and load cases assessed for each project structure.
- (7) *References*. A list of technical references available that were used to assemble this information will be included.

C. Engineering Analysis of Levee System

We propose to analyze the following items as outlined in the *Requirements for Mapping Levees – Complying with Section 65.10 for the NFIP Regulations* by the Federal Emergency Management Agency (FEMA) and dated November 2008.

- (1) *Design Criteria.* For the purposes of the National Flood Insurance Program, FEMA has established specific levee design criteria for freeboard, closures, embankment and foundation stability, settlement, interior drainage and other design criteria. These criteria will be analyzed under the base flood conditions.

Both vegetative and structural encroachments will be analyzed with respect to the levee system's stability and functionality. Waters Edge Subdivision will be included as a structural encroachment, and it too will only be assessed under the base flood conditions. A levee design flood assessment of the encroachments is beyond the scope of this proposal. A separate proposal for such services can be furnished, if they should become required.

The interior drainage and the river base flood analyses will be done utilizing the latest adopted Flood Insurance Rate Maps and Study for the area. The scope does not extend to developing new flood studies. A separate proposal for such services can be furnished, if they should become required.

- (2) *Operations Plans and Criteria.* The operational criteria must be reviewed for compliance with the regulations as described herein. All closures devices or mechanical systems for internal drainage, whether manual or automatic, must be operated in accordance with an officially adopted operation manual, a copy of which must be provided to FEMA as part of the certification process. We will analyze the existing operations manuals for compliance under the base flood conditions.
- (3) *Maintenance Plans and Criteria.* The maintenance criteria must be reviewed for compliance with the regulations as described herein. Levee systems must be maintained in accordance with an officially adopted maintenance plan, a copy of which must be provided to FEMA as part of the certification process. We will analyze the existing maintenance plans for compliance under the base flood conditions.

D. Structural Analysis of Levee Gate Structures, Closures, and Retaining Walls

We propose to conduct a structural evaluation for the following features and structures along the Augusta Levee:

- (1) Bulkhead Tailrace Gate
- (2) Sibley Mill Tailrace Gate
- (3) King Mill Tailrace Gate
- (4) Hawks Gully Gate

- (5) Butler Creek Gate
- (6) 10th Street Breach
- (7) 8th Street Breach
- (8) 6th Street Breach
- (9) East Boundary Breach
- (10) Port Authority Breach
- (11) Two (2) Retaining Walls West of Hawks Gully
- (12) Two (2) Retaining Walls at Golf & Gardens
- (13) Two (2) Retaining Walls at Hotel/Conference Center
- (14) Port Royal Retaining Wall
- (15) Wall at St. Paul's Church
- (16) Wall at 5th Street
- (17) Riverside Walls at Riverwalk – 10th Street
- (18) Riverside Walls at Riverwalk – Between 9th and 10th Street
- (19) Riverside Walls at Riverwalk – Between 8th and 9th Street
- (20) Riverside Walls at Riverwalk – Bench Alcove
- (21) Riverside Walls at Riverwalk – Riverwalk Marina Store

These features and structures will be evaluated for structural stability when subjected to the 100 year flood elevation as published by the Federal Emergency Management Agency. We will retrieve all available structural drawings for most of these structures to use in our analysis. Following a field visit to each site to verify the existing conditions of each subject structure and feature of the levee, a structural stability analysis will be conducted. The structural engineering analysis will conform to the requirements of Section 65.10 of the National Flood Insurance Program (NFIP) regulations.

E. Geotechnical Analysis of Levee Embankment

To evaluate subsurface conditions along the levee alignment we will provide the following:

- (1) Review soil and geologic maps of the area, available USACE or other documents regarding levee design, construction and maintenance; available design, construction and testing data for pipelines under the levee if available; and available data for any soil test borings previously drilled for the levee or encroachments.
- (2) A site reconnaissance to observe existing features and select boring locations. Sub-meter accurate GPS equipment will be used to record the boring locations.
- (3) Perform an estimated 70 soil test borings along the levee alignment, or adjacent to the levee depending on drill rig access restrictions. The borings will typically be advanced to a depth of 40 feet or to auger refusal, whichever occurs first.
- (4) Obtain permits and providing traffic control for any borings drilled in public roads.

- (5) Contact the public "one-call" utility locating service to locate buried utilities before drilling, and contract a private locator to help identify buried lines in the area between 6th Street and 11th Street.

We plan to utilize truck, ATV and track mounted drilling equipment as needed to complete the drilling program. The borings will be advanced with a conventional rotary drilling process using hollow stem augers or wet wash methods. Standard penetration resistance tests (SPT) and split-spoon sampling (in general accordance with ASTM D 1586) will be performed at 2.5-foot intervals to a depth of 10 feet and at 5-foot intervals thereafter. Groundwater observations will be made at the time of drilling (and after a period of 24-hours where the boreholes can safely be left open overnight).

Undisturbed soil samples will also be obtained in the borings for laboratory testing. The borings will be abandoned by plugging full depth with bentonite. Any asphalt pavement penetrations will be patched.

Laboratory Testing

Upon completion of the field work, the soil samples will be transported to the laboratory for examination and classification by a Geotechnical Professional. Select samples will be subjected to the following tests:

- (1) Moisture content,
- (2) Grain size distribution,
- (3) Atterberg Limits,
- (4) C-U Triaxial Strength,
- (5) Consolidation (if needed), and
- (6) Permeability (if needed).

Other tests could also be performed if deemed appropriate based on subsurface conditions or dictated by the results of the analyses.

Analysis

The exploration and laboratory data will be analyzed by geotechnical engineering staff. The analyses will be conducted following guidance from USACE Engineering Manuals 1110-2-1913 and 1110-1-1904, or other federal publications as may be required.

The analyses will include (but may not be limited to):

- (1) The stability of the existing levee structure (stability analyses will be conducted for an estimated 23 sections including those considered the most critical because of either subsurface conditions or the levee configuration. Also, model sections may be developed based on composites of various portions of the levee with similar characteristics). We currently plan to analyze the levee with respect to steady-state seepage, but this could change based on anticipated flood duration and permeability

of the embankment soils. The sections will be analyzed for the 100-year flood levels and at a water level one foot below the crest;

- (2) Seepage through the levee and foundation soils;
- (3) Settlement (since the levee has been in place since 1941 it is most likely no additional settlements will occur); and,
- (4) Liquefaction if dictated by site seismology and subsurface materials.

F. Geophysical Survey – Multi-Channel Analysis of Surface Waves

We propose to use a 24-channel Geode seismograph, manufactured by Geometrics, Inc., with 4.5 Hz geophones in order to collect Multi-Channel Analysis of Surface Waves (MASW) seismic data on top of the approximately 11.5 miles of the levee. We will utilize a seismic land streamer to tow the cable that attaches to the 24, 4.5 Hz geophones. A 20 lb hammer striking a steel plate will be the source for each data collection event. Other sources could be used depending on the site's seismic properties. The geophones will be advanced along the levee's top incrementally while collecting shear wave seismic data. The collected data will be inverted using one of two software suites; either the SurfSeis suite (developed by the Kansas Geologic Survey) or WaveEq (Developed by Geometrics). For each shot gather, a Phase Velocity versus Frequency plot will be generated from which a dispersion curve is picked. This dispersion curve is further inverted to produce a layered earth Shear Wave Velocity Vs model. The advancing traverse models will then be combined to produce a two-dimensional Shear Wave Velocity Vs Profile. This profile will visually show horizontal as well as vertical variations in the subsurface Shear strength, including low velocity zones that could require further physical evaluation. It is this profile that can be used to either reconcile the geotechnical borings data or help guide where to locate a boring along the levee's top in order to maximize the usefulness of the geotechnical data. Additionally, the collected data can be directly used to generate the Shear Modulus, G profile by relating the shear wave velocity to the materials' density.

G. Levee Condition Assessment

This section of the work will involve conducting the physical inspection, generating the inspection report, preparing a summary of the findings and assessments, as well as the conclusions and recommendations that emerge. (This section is informally referred to as the Engineering Report and Certification.) The report will include the following:

- (1) *Findings and Recommendations.* Provide a description regarding the findings of the field inspection, a summary of the operation and maintenance status, an assessment of the Supporting Technical Information; conclusions regarding the condition and stability for continued reliable operation of the project, and specific conclusions regarding the information in each section of the report; recommendations to improve or maintain the condition and suitability for continued reliable operation of the project and specific recommendations regarding the information in each section of the report; and a certification by the engineer of record that he generally concurs with the assumptions, analyses and results of the studies documented in the report.

- (2) *Project Description.* Provide a brief description of each major element, ancillary structure, and other features of the project including a brief project history, hazard potential, summary of standard operating procedures, and modification conducted for project safety; and flood history summary.
- (3) *Discussion of Potential Failure Mode Analysis.* Provide a brief summary of the levee system with relation to the Potential Failure Modes Identified during our assessment. For the purpose of this analysis a “failure” will be considered as something which causes unsatisfactory performance of the levee. The failure may occur under static loading, normal operating water level, or flood conditions including all external loading conditions for water retaining structures.
- (4) *Field Inspection Observations.* A summary of the observations made in the field for the earth fill embankments, gate structures, closures, encroachments, associated retaining walls, and other important works will be presented and illustrated with photographs. The intention is to highlight changed conditions and not to document unimportant nor minor details. The more detailed inspection report with photographs will be submitted to the City of Augusta as either a separate document or as an appendix to the Engineering Assessment Report.
- (5) *Operation and Maintenance Program Relative to FEMA Criteria.* This portion of the work will extend to any observations of significant operation and maintenance issues. Notwithstanding the above, this portion of the report will include a summary of the communication and response facilities, electrical/mechanical systems, and human factors, including response times.
- (6) *Certification.* Provide certification by a qualified registered professional engineer that the levee system meets the structural requirements as set forth in Section 65.10 of the National Flood Insurance Program regulations (44 CFR 65.10) and as further defined in 44 CFR 65.2. Also, provide certified as-built plans for the project and associated features.

H. Implementation of Recommendations

It is anticipated that some of the recommendations made based on the findings of our condition assessment may require additional design services. However, the scope and types of repairs or improvements, if any, are unknown at this time and will be determined by the engineering inspections and analyses. Therefore, this proposal does not cover those additional design services, which can be handled by an additional proposal at such time as the exact scope becomes known.

Project Deliverables:

Task:

1) Compiled Boundary and Topographic Map
(Certified As-Built Plans)

Deliverables:

- A) Six bound copies of Final Maps
- B) Electronic (pdf) copy of Final Maps

Mr. Abie Ladson, P.E.
February 13, 2009
Page 10

- | | |
|---|--|
| 2) Structural Analysis Report | A) Six bound copies of Final Document |
| | B) Electronic (pdf) copy of Final Document |
| 3) Geotechnical Analysis Report | A) Six bound copies of Final Document |
| | B) Electronic (pdf) copy of Final Document |
| 4) Geophysical Survey Report | A) Six bound copies of Final Document |
| | B) Electronic (pdf) copy of Final Document |
| | C) Electronic copy of Field Data |
| 5) Engineering Assessment Report
(Certified Analysis of Levee) | * A) Twelve bound copies of Final Document |
| | B) Electronic (pdf) copy of Final Document |

* It is anticipated that the Augusta Engineering Department will submit the Final Reports and Documents to the Federal Emergency Management Agency.

Note: Additional copies of all documents are available at the cost of reproduction.

FEE PROPOSAL

We propose to accomplish the services indicated for a lump sum of \$624,470.00. The fees by project phase are as follows:

1. Surveying Services	
A. Control Surveys and Picture Points	
Lump Sum	\$ 24,250.00
B. Aerial Photography and Topographic Mapping	
Lump Sum	\$ 46,900.00
C. Enhance Aerial Topographic Map (Encroachments, Boring Locations,	
Lump Sum	\$ 18,100.00
D. Property Research, Surveys and Boundary Resolution	
Lump Sum	\$ 33,250.00
E. Establishment of Baseline Monuments	
Lump Sum	\$ 16,800.00
	Subtotal \$ 139,300.00
2. Engineering Services	
A. Regulatory Coordination	
Lump Sum	\$ 14,500.00
B. Research and Analysis of Supporting Technical Information	
Lump Sum	\$ 37,500.00

C. Engineering Analysis of Levee System Lump Sum	\$ 46,500.00
D. Structural Analysis of Levee Gate Structures, Closures, and Retaining Walls Lump Sum	\$ 86,095.00
E. Geotechnical Analysis of Levee Embankment Lump Sum	\$ 100,050.00
F. Geophysical Survey – Multi-Channel Analysis of Surface Waves Lump Sum	\$ 49,450.00
G. Levee Condition Assessment – Physical Inspection Lump Sum	\$ 28,250.00
H. Levee Condition Assessment – Inspection Report Lump Sum	\$ 40,425.00
I. Levee Condition Assessment – Engineering Report (Including Conclusions and Recommendations) and Certification Lump Sum	\$ 82,400.00
Subtotal	\$ 485,170.00
GRAND TOTAL	\$ 624,470.00

Additional Services (If necessary)

1. **Implementation of Recommendations.** This proposal does not cover furnishing services to implement any of the potential recommendations due to deficiencies discovered as a result of these analyses. The required design, surveying or coordination services can be handled by an additional proposal at such time as the exact scope becomes known, either on a lump sum or on a time and material basis, according to your preference.
2. **Update Augusta City Levee Operations and Maintenance Manual.** This proposal does not cover furnishing services to update the Operations and Maintenance Manual to reflect current conditions. These required design services can be handled by an additional proposal at such time as the exact scope becomes known, either on a lump sum or on a time and material basis, according to your preference.

Mr. Abie Ladson, P.E.
February 13, 2009
Page 12

We would invoice you monthly for the percentage of each item completed during that month and would expect payment within 15 days following the submittal of our invoice.

TIME OF COMPLETION

We are prepared to begin work at your direction and expect to complete the proposed services within six months from your Notice to Proceed.

We appreciate the opportunity of making this proposal and trust that you find it satisfactory. We stand ready to prepare and forward to you a standard form engineering contract covering this assignment at your request. Should you have any question concerning the scope of the services offered, or the fees, please do not hesitate to give us a call.

Sincerely,

CRANSTON ENGINEERING GROUP, P.C.



D. Scott Williams, P.E.

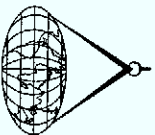


Eldridge A. Whitehurst, Jr., P.E.

DSW/vlk

Attachment:

Augusta City Levee Maps dated January 1977



Cranston Engineering Group, P.C.

ENGINEERS - PLANNERS - SURVEYORS

452 ELLIS STREET, AUGUSTA, GEORGIA 30901
POST OFFICE BOX 2446, AUGUSTA, GEORGIA 30903
TELEPHONE 706-722-1688
FACSIMILE 706-722-8379
mail@cranstonengineering.com

THOMAS H. ROBERTSON, PE, AICP, RLS
JAMES B. CRANFORD, JR., PE
DENNIS J. WELCH, PE

J. CRAIG CRANSTON, PE, RLS
(RETIRED)

February 11, 2009

Mr. Abie Ladson, P.E.
Director of Engineering
Augusta Engineering Department
505 Telfair Street
Augusta, Georgia 30901

Re: Lake Aumond Dam Improvements
Augusta, Georgia
Our File No. 2004-0017

Dear Mr. Ladson:

Several years ago our firm was employed by the City to undertake a design of improvements to Lake Aumond Dam located on Walton Way in Augusta, Georgia. The project was initiated in response to inspections done by the Safe Dams Program Office of the Georgia Department of Natural Resources noting that the emergency spillway located on the east end of the dam was showing signs of wear and distress, as evidenced by exposed reinforcing steel and spalling concrete. During early conversations with then engineer, Teresa Smith, the idea was broached about doubling the size of the emergency spillway so as to provide some relief to properties upstream from the dam during flooding events. This could have helped properties not only around Lake Aumond, but also around Heirs Lake.

Normally, one would not increase spillway capacity for a dam because this would put more water onto downstream property owners thereby increasing their risk of flooding. Inasmuch as this project to improve Lake Aumond Dam would be one of a number of projects along Rae's Creek dealing with flood issues identified after the significant flooding in 1990, then it was our understanding that the Federal Emergency Management Agency (FEMA) was to look at the cumulative effect of all projects after they were completed, and a new flood study of Rae's Creek was to be undertaken. Thus, the earlier construction of a regional stormwater detention pond on Wrightsboro Road and its reduction of flood flows downstream would offset increases in flow caused by enlarging the emergency spillway capacity at Lake Aumond. We understand that the Corps of Engineers is to start such a study in the near future. It is also noted that at the time this project was started there were no residential houses immediately adjacent to the creek along its length from Lake Aumond Dam to the downstream Wheeler Road crossing.

FEB 13 2009

RECEIVED

Augusta, GA.
Engineering Department

Mr. Abie Ladson, P.E.
February 11, 2009
page 2

Design work on the project was completed to a 90% level at which time the plans and specifications were sent to the City for review and comment. Since that time, the project has been on hold by the City.

In the interim period, we have noted that a property owner has been able to develop lots in the strip of land adjacent to Rae's Creek between Lake Aumond Dam and Wheeler Road. This has been done according to the current City regulations regarding development in and near flood plains. There is now at least one completed house in this area with several other lots having been sold.

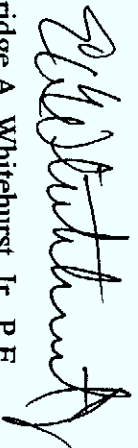
The presence of the above-mentioned existing house and future houses gives us second thoughts as to the advisability of expanding the spillway capacity for Lake Aumond Dam. Even though the overall flow during the 100-year and smaller frequency floods can be shown on paper to have been reduced in the area of these new lots, based upon the entirety of projects, it is easy to envision the City being entangled in legal maneuverings in the event that flooding happens soon after work on the spillway is completed. Had the spillway project been completed before the development was started, it would be much easier to say that the rate of flow was an existing condition prior to the lots being established.

In light of the above, we recommend that the expansion to the Lake Aumond Dam emergency spillway be reconsidered. Even though the lessening of flooding of upstream properties by improvements to Lake Aumond Dam will not have been accomplished, they still have been overall positively impacted by the Wrightsboro road detention pond. It should be noted that the existing spillway is still deteriorating and will have to be addressed in the future when its condition will no longer allow it to function as needed. Remedial repair could prolong its life.

We look forward to hearing from as to you on how to proceed on this project. Please do not hesitate to contact us with any questions, or to discuss the matter further.

Sincerely,

CRANSTON ENGINEERING GROUP, P.C.



Eldridge A. Whitehurst, Jr., P.E.

EAW/vlk



**Engineering Services Committee Meeting
3/9/2009 1:00 PM
Condemnation**

Department: Attorney

Caption: Motion to authorize condemnation to acquire a permanent drainage and access easement and a temporary construction easement for the AUD D'Antignac Drainage Improvements Project at the property designated as Tax Map 046-2, Parcel 120-01, 1225 Walton Way.

Background: The City has been unable to reach a mutually acceptable agreement with the property owner. In order for the project to proceed and avoid further delays, it is necessary to condemn a portion of subject property. The required property consists of 3,718 square feet or 0.09 acre of permanent drainage and access easement and 4,313 square feet of temporary construction easement. The appraised value is \$13,485.00.

Analysis: Condemnation is necessary in order for the project to proceed.

Financial Impact: The necessary costs will be covered under the project budget.

Alternatives: Deny condemnation

Recommendation: Approve condemnation.

Funds are Available in the Following Accounts:

REVIEWED AND APPROVED BY:

**Law.
Administrator.
Clerk of Commission**



**Engineering Services Committee Meeting
3/9/2009 1:00 PM
East Augusta St & Drainage Impvts - Award CSA**

Department: Abie L. Ladson, PE, CPESC, Director of Engineering

Caption: Award Design Consultant Services Agreement to WR Toole Engineers, Inc. for the Capital Project Budget in the amount of \$500,000 on the East Augusta Street and Drainage Improvements Project to be funded from SPLOST Phase III Urban Recapture Funds for the Engineering Department.

Background: The East Augusta Street and Drainage Improvement project is an identified and partially funded project to address flooding and associated roadway improvements in the East Augusta Area bounded by East Boundary Street, the Levee, I-520 and Laney Walker Blvd. The drainage system in this area is not adequate to handle low frequency rain events, thus causing flooding several streets and yards. The Georgia Department of Transportation (GDOT) has also committed \$450,000 of State-Aid to this project. Funds allocated to this project are only for design.

Analysis: The following firms were evaluated based on qualifications, project approach, experience, and schedule on January 23, 2007. The following firms submitted RFQs and were evaluated: 1. ARCADIS 2. Gannett Fleming 3. EMC Engineering Services, Inc. 4. W. K. Dickerson 5. W.R. Toole Engineers, Inc. 6. Cranston Engineering Group, Inc. (Non-compliant) W.R. Toole Engineers, Inc. was selected based on the evaluation procedures used for this project.

Financial Impact: Funds are available in SPLOST Phase III Urban Recapture account IMPACT: number 327-041110-6011110/296812333-6011110.

Alternatives: 1) Award Design Consultant Services Agreement to WR Toole Engineers, Inc. for the Capital Project Budget in the amount of \$500,000 on the East Augusta Street and Drainage Improvements Project to be funded from SPLOST Phase III Urban Recapture Funds for the Engineering Department.
2) Do not approve, and risk losing \$450,000.00 of State-Aid funds.

Recommendation: Approve Alternative Number One.

Funds are Available in the Following Accounts: 327-041110-6011110/296812333-601111

Cover Memo

REVIEWED AND APPROVED BY:

Finance.
Procurement.
Law.
Administrator.
Clerk of Commission

MEMORANDUM

DATE: February 13, 2007
TO: Abie Ladson
FROM: Geri A. Sams
SUBJECT: RFQ 06-202 East Augusta Roadway and Drainage Improvements
Bid Opening Date: January 23, 2007 @ 3:00 p.m.

We are pleased to attach the bid tab sheet for the above request for qualifications which opened this afternoon. We are pleased to attach a copy of the proposals received. The DBE copies have been sent separately. Please take note of the following from the Augusta Richmond County Code as it relates to handling pre-qualifications from contractors.

Article 5, 1-10-40 Bidding on ARC contracts – pre-qualifications of contractors

§ 1-10-40. PRE-QUALIFICATIONS OF CONTRACTORS.

- (a) When required. The Purchasing Director, in consultation with the Administrator and using agency head may determine that it shall be in the best interest of Augusta-Richmond County to pre-qualify suppliers for contracts of a particular type. The imposed standards must be met by any contractor who wishes to bid on the named project. The contractor shall submit required data in order to obtain a fair and impartial determination of whether a contractor has met such pre-qualification standards. When pre-qualification is required, only those contractors who submit the required pre-qualification information and who are actually pre-qualified to submit a bid or proposal on the contract in question, or who are parties to a joint venture formed by suppliers who are herewith pre-qualified, shall be allowed to submit bids or proposals on the contract in question.
- (b) Public notice. Public notice of pre-qualification shall be given in the same manner as provided in § 1-10-43 (c).
- (c) Pre-qualification standards. The Purchasing Director and affected using agency heads shall review all information submitted by the suppliers and, if necessary, require additional information. The standards set for pre-qualification shall include but not be limited to factors set forth in § 1-10-43 - Sealed Bids; Bid Acceptance and Bid Evaluation and § 1-10-45 (g) - Sealed Proposals; Evaluation and Selection. If the Purchasing Director and Administrator determine that the contractor meets all standards, then the contractor shall be so pre-qualified. The contractor shall be notified in writing.
- (d) Failure to pre-qualify. Should a contractor not be pre-qualified, appropriate written notice shall be sent and the contractor is entitled to appeal rights as provided in Article 9.

Please do not hesitate to contact our office as required.

GS/bc

Attachments

cc: Evaluation Committee
DBE Office

CONSULTANT EVALUATION FORM RFQ 06-202
EAST AUGUSTA ROADWAY AND DRAINAGE IMPROVEMENTS
ENGINEERING DEPARTMENT

Consultant: _____

Project Title: _____

Project Number: _____

Type of Work Performed by Consultant (check all that apply):

Bridge Engineering		Hazmat
Roadway Engineering		Traffic Engineering
Hydrology/Hydraulic		Construction Engineering and
Analysis/Study/Design		Inspection
Scheduling		Project/Program Management
Training		Environmental
Geotechnical Engineering		Right-of Way

SCORING

Excellent
10 to 8

Good
7 to 5

Fair
4 to 3

Poor
2 to 0

QUALIFICATIONS

Score: _____

State of Georgia License Engineers to Project
 Individual(s) have experience with similar projects
 Qualified staff to perform test research and calculations
 Describe staff's unique qualifications and training for this type of work

APPROACH TO PROJECT

Score: _____

Describe the approach to this project, special ideas and techniques

EXPERIENCE

Score: _____

Describe the experience of firm and/or individuals assigned to similar projects

SCHEDULE

Score: _____

Describe the anticipated work hours necessary to complete this project
 Provide schedule for the work will be completed

DBE GOAL (if applicable) _____ %
 Met Goals? Yes = 10 - No = 0

Score: _____

Total Score: _____

Rated By: _____ Title: _____



W R Toole Engineers, Inc.

Engineers * Consultants * Planners

February 17, 2009

Augusta Engineering Department
505 Telfair Street
Augusta, GA 30901

ATTN: Mr. Abie Ladson, PE - Director

SUBJECT: Proposal of Professional Services
East Augusta Roadway & Drainage Improvement Project
TE Proposal No. P09005

Mr. Ladson:

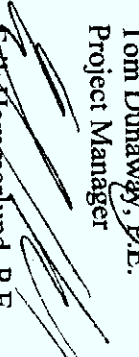
W. R. Toole Engineers appreciates this opportunity to submit the attached information regarding professional engineering services for the East Augusta Roadway & Drainage Improvement Project. Please find enclosed for your review an understanding of project scope and design issues and professional fee summary. A man-hour estimate and anticipated schedule for concept development services are also enclosed. Specific project schedules and man-hour estimates for additional tasks will be provided upon completion and approval of Project Priority Schedule.

Again, thank you for the opportunity of providing you with this package. Please contact our office with any questions regarding the information contained herein.

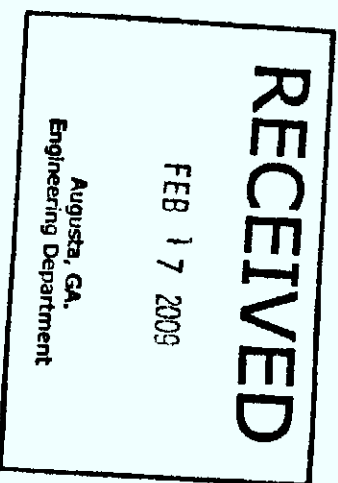
Sincerely,

W. R. TOOLE ENGINEERS, INC.


Tom Dunaway, P.E.
Project Manager


Erik Hammarlund, P.E.
Vice President

Attachments



1005 Broad Street - Suite 200, Augusta, GA 30901

phone - 706.722.4144 * fax - 706.722.6219 * web - www.wrtoole.com

***PROFESSIONAL SERVICES
PROPOSAL***

**EAST AUGUSTA ROADWAY
&
DRAINAGE IMPROVEMENT
PROJECT**

Prepared For

**AUGUSTA ENGINEERING DEPARTMENT
Mr. Abie Ladson, P.E., Director
505 Telfair Street
Augusta, Georgia 30901**

Prepared By

**W. R. TOOLE ENGINEERS, INC.
349 Greene Street
Augusta, Georgia 30901
(706) 722-4114 / fax (706) 722-6219
www.wrtoole.com**



Revised 2/17/09

AUGUSTA EAST ROADWAY & DRAINAGE IMPROVEMENT PROJECT

PROJECT SCOPE & ISSUES

PROJECT OBJECTIVE

The objective of the East Augusta Roadway and Drainage Improvement project is to provide infrastructure improvements that mitigate the flooding conditions in the East Augusta Region. W.R. Toole Engineers, Inc. (WRTE) understands that the frequent, severe flooding of the East Augusta Region creates threatening and hazardous conditions for residents of the area. Contributing factors to the flooding conditions include undersized roadside ditches, limited or no roadside curbing and the lack of an integrated storm sewer system.

Due to the expansive project area and widespread flooding conditions, specific improvements cannot be identified without detailed survey and engineering analysis. Therefore, we understand that this project, and subsequently our scope of work, will be structured based on a stated construction cost limitation basis. Based on information provided in the RFQ and a May 17, 2007 meeting with the Augusta Engineering Department (AED), WRTE understands that the stated construction cost limitation is \$5,000,000. We estimate that between one (1) and three (3) infrastructure improvement projects will be identified for construction within the stated construction cost limitation. These projects may range in construction cost from one (1) to five (5) million dollars each. The scope of work outlined in this document is commensurate with the construction cost limitation.

PROJECT AREA

The East Augusta Region subject to this project includes the area bound by East Boundary, Augusta Levee, Bobby Jones Expressway and Laney-Walker Boulevard.

SCOPE OF WORK

The following scope of work is proposed.

Aerial Survey and Basemap Preparation

- Coordinate aerial survey and basemapping activities. The aerial survey will serve as the foundation of the project basemap. The project basemap will be used for the design of the proposed improvements and as an exhibit during public meetings.

Field surveying is also proposed in order to accurately depict areas obscured from the aerial survey and underground infrastructure specifics, such as culvert



elevations, closed pipe system characteristics, existing ditch section geometry and system outfall conditions.

- Provide additional surveying and basemap updates as necessary to support problem identification, public involvement and engineering design.

Concept Development

- Coordinate a project kick-off meeting with Augusta Engineering Department.
- Schedule and moderate public meetings to gather input from the residents of the area with regard to the flooding conditions. W RTE will utilize the project basemap to discuss and identify problematic, flood prone areas with local residents.
- Evaluate Hydrologic – Hydraulic (H & H) conditions of project area, including analysis of basin outfall locations and potential downstream impacts. W RTE will analyze the existing H & H conditions and identify problematic areas. This information will be confirmed against the information gathered during public meetings.

Hydraulic improvements will be developed for the problematic areas. Examples of proposed improvements include new roadway drainage systems, upgraded pipe systems, detention basins and open channels. The results of the H & H analysis will be compiled in report format. The report will include the engineering methodology, calculations and assumptions used during analysis, specific hydrologic and hydraulic data and schematics depicting existing and proposed conditions.

- Prepare Project Concept Report. The Concept Report will:
 1. Compile information gathered during public meetings
 2. Confirm the project's need and purpose
 3. Summarize engineering analysis, including H&H Report
 4. Identify Issues of Concern and Design Constraints
- Develop Project Priority Schedule (PPS). The PPS will identify up to three (3) infrastructure improvement projects that may range in construction cost from one (1) to five (5) million dollars each. The total construction cost of the priority projects will not exceed the stated construction cost limitation of \$5,000,000. Projects of less priority, which exceed the stated construction cost limitation, will

be identified as projects 'not in contract'. WRTE understands that projects not in contract will be designed and constructed under separate contracts.

WRTE recommends that project priority be based on information gathered during public meetings, engineering analysis, project budget, construction phasing alternatives and consultation with the Augusta Engineering Department.

The PPS will serve as the foundation for planning and budgeting the infrastructure improvements in the area. Once established, WRTE will facilitate additional public meetings to discuss the PPS and its impact to local residents.

Subsurface Utility Engineering

- FHWA defines SUE as "*an engineering process for accurately identifying the quality of subsurface utility information needed for highway plans, and for acquiring and managing that level of information during the development of a highway project.*" FHWA further classifies SUE investigations into Quality Levels; A-D, with A being the most stringent and comprehensive.

WRTE will team with a GDOT pre-qualified Subsurface Utility Engineer for the purpose of the SUE investigation. WRTE will recommend the appropriate SUE Quality Level based on project specific scope of work for each project area identified in the PPS. The SUE investigations will be completed in accordance with GDOT guidelines.

Engineering Services – Construction Plans / Bid Documents

- Prepare construction plans and project manual for projects identified in the PPS. The projects will be completed in the order identified in the PPS. Probable infrastructure improvements will include upgraded storm sewer systems, storm water detention facilities and roadway improvements. Utility relocation may be required to facilitate construction activities.

WRTE will complete the Construction Plans on a Preliminary Plans and Final Plans basis. Preliminary plans will be equivalent to 60% complete plans. Final plans will be completed based on the review and comment of the Preliminary Plans. An opinion of probable construction cost and updated project schedule will be issued at each project milestone.

WRTE understands that AED will provide WRTE with the City of Augusta, Georgia front-end Contract Documents (information to bidders, bid forms, etc.) and General Conditions. These City of Augusta documents will be combined with project technical specifications to form the project manual.

- Design Erosion, Sedimentation & Pollution Control plans (included in Construction Plan set for each project). Coordinate the approval of the plans through local review agencies.
- Coordinate impacts to private and public utilities with respective owners.
- Coordinate and permit impacts to Georgia Department of Transportation right-of-way.

Engineering Services – Bidding and Construction Oversight

- Coordinate delivery of all bid documents with City of Augusta Purchasing Department.
- Attend pre-bid, pre-construction and bid opening meetings.
- Provide as requested, periodic construction support during the construction phases of the projects identified in the PPS.

Environmental Services

- Coordinate Environmental Permitting activities. WRTE has included tasks to provide for permitting services for disturbances to wetlands and State waters. Specific tasks include wetland delineation, coordination of Corps of Engineers jurisdictional verification and individual permit application, coordination of State waters verification and stream buffer variance application.

Final funding sources will determine the level of environmental analysis required. Detailed environmental analysis, such as an Environmental Assessment (EA) or National Environmental Policy Act (NEPA) document, is not included in this scope of work. Specific environmental requirements will be provided on a project specific basis under a separate proposal.

Geotechnical Services

- Coordinate geotechnical evaluation. WRTE has included tasks to provide geotechnical services for the identification of sub-surface soil conditions. Specific tasks most likely will include soil borings to identify soil properties and ground water, subgrade evaluation for roadway construction and construction task consultation for deep excavations, soil stabilization, jacking or boring, etc.

Easement Maps

- WRITE will prepare easement maps for the acquisition of permanent and temporary construction easement as necessary for impacted locations outside of the City of Augusta right-of-way or easement.

DELIVERABLES

- Project Basemap (Aerial Survey with enhancements)
- Public Meetings: Problem Identification and Concept Development
- Project Concept Report, including Hydrologic – Hydraulic Analysis
- Project Priority Schedule (PSS)
 - PPS Public Meetings: WRITE will facilitate additional public meetings for the purpose of reviewing the PPS, probable construction costs and likely impacted areas.
- Subsurface Utility Engineering: Utility locations in digital format for basemap enhancement.
- Construction Plans (per each project identified in the PSS)
 - Concept Confirmation Report (Report Format per project area) – 3 copies
 - Preliminary Plans – 8 sets for Augusta, Georgia review
 - Final Plans, Contract Documents / Technical Specifications – 8 sets for Augusta, Georgia review and approval
 - Compiled Easement Maps – 3 copies per compiled map
 - Complete Bid Package (Construction Plans and Project Manual): 1 digital copy (CD) to Augusta Purchasing Department.

ANTICIPATED PERMITS

- GDOT Utility Encroachment Permit
- US Army Corps of Engineers – Permit for Impact to Wetlands
- GA Environmental Protection Division – Permit for Impact to State Waters

- Erosion, Sedimentation & Pollution Control – Permit for land disturbance and erosion control measures.
- Additional permits may be necessary as the exact scope of work is defined for each project.

ADDITIONAL PROJECT NOTES

- Property lines will be compiled on the project basemap based on City of Augusta GIS mapping and field located property corners.
- Improvements will be designed to City of Augusta and GDOT standards as applicable. Please note that construction plans will not be in GDOT PPG format.
- WRITE will provide AED with monthly project status reports for the entire duration of the design process.
- WRITE has included fees to prepare permit submittals for wetlands impacts and NPDES submittals. However, there may be additional fees for wetland mitigation (purchasing of wetland credits), fees for railroad crossings, and fees for land disturbance (\$80/acre) depending on the extent of the impacts. We understand that these fees will be paid directly by AED as necessary.
- All work requiring additional environmental sub-consultant evaluation will be facilitated through a separate proposal to AED.
- Full-Time Construction Management & Inspection Services: WRITE has successfully provided Construction Management and Inspection (CM&I) services for our municipal and private sector clients for over 20-years. WRITE will provide a CM&I team, led by a licensed professional engineer in the State of Georgia, for full time CM&I services at the request of AED. Fees for CM&I services will be based on unit rates. WRITE will provide a separate man-hour and fee estimate for these services upon request.
- Construction as-builts or record drawings are not included in this scope of work.



Professional Fee Summary

East Augusta Roadway & Drainage Improvement Project

Stated Construction Cost Limitation = **\$5,000,000.00**

Phase	Task	Description	Task Fee	Percentage of Total Fees
Phase I Concept Development	1	Aerial Survey	\$92,000.00	1.84%
	2	Concept Development <i>Problem Identification & Public Meetings</i>	\$94,000.00	1.88%
		<i>Hydrologic - Hydraulic Analysis of Complete Project Area</i>		
		<i>Develop Project Priority Schedule (PPS)</i>		
Phase II Construction Documents	3	Construction Plans / Bid Documents	\$208,000.00	4.16%
	4	Surveying & Basemapping	\$35,000.00	0.70%
	5	Subsurface Utility Engineering	\$34,000.00	0.68%
	6	Environmental Services	\$16,000.00	0.32%
	7	Geotechnical Services	\$8,000.00	0.16%
	8	Easement Maps	\$12,000.00	0.24%
			\$499,000.00	9.98%

DO NOT PROCESS THIS DOCUMENT. (once approved by the Commission Engineering will send the original document(s) for execution to the Clerk of Commission Office. For questions please contact Engineering at ext 5070.)

Augusta-Richmond County, Georgia

CPB#N/A

**CAPITAL PROJECT BUDGET
EAST AUGUSTA STREET AND DRAINAGE IMPROVEMENTS**

BE IT ORDAINED by the Commission-Council of Augusta-Richmond County, Georgia that the following Capital Project Budget is hereby authorized:

Section 1: This project is authorized to CPB#N/A. This project proposes to address flooding and associated roadway improvements in the East Augusta area bounded by East Boundary Street, the Levee, I-520 and Laney Walker Blvd.

Section 2: The following revenues are anticipated to be available to the Consolidated Government to complete the project.

SPLOST Urban Phase III Recapture	\$500,000
GDOT STATE AID CONTRACT	<u>\$450,000</u>
	\$950,000

Section 3: The following amounts are appropriated for the project:

	By Basin		By District
Phinizy Swamp	\$950,000	1st	\$950,000

Section 4: Copies of this Capital Project Budget shall be made available to the Comptroller for direction in carrying out this project.

Adopted this _____ day of _____.

Approved

Honorable Deke Copenhaver, Mayor

Original-Commission Council Office
Copy-Engineering Department
Copy-Finance Department
Copy-Procurement Department

Augusta-Richmond County, Georgia

CPB#N/A

**CAPITAL PROJECT BUDGET
EAST AUGUSTA STREET AND DRAINAGE IMPROVEMENTS**

<u>SOURCE OF FUNDS</u>	<u>CPB AMOUNT CPB</u>	<u>CPB CHANGE</u>	<u>NEW CPB</u>
URBAN SPLOST PHASE III RECAPTURE 327-041110-296812333	\$500,000		\$500,000
GDOT STATE AID CONTRACT	\$450,000		\$450,000
TOTAL SOURCES:	\$950,000		\$950,000
<u>USE OF FUNDS</u>			
ENGINEERING 327-04-1110-5212115-000000000	\$950,000		\$950,000
TOTAL USES:	\$950,000		\$950,000

REQUEST FOR QUALIFICATIONS

Request for Qualifications will be received at this office until Tuesday, January 23, 2007 @ 3:00 p.m.
FOR FURNISHING:

RFQ ITEM #06-202 East Augusta Roadway and Drainage Improvements for Engineering Department

RFQs will be received by: The Augusta Commission hereinafter referred to as the OWNER at the offices of:

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

RFQ documents may be examined at the office of the Augusta, GA Procurement Department, 530 Greene Street – Room 605, Augusta, GA 30911. **All questions must be submitted in writing to the office of the Procurement Department by Thursday, January 4, 2007 @ 4:00 p.m.** by fax at 706-821-2811 or by mail. No RFQ will be accepted by fax, all must be received by mail or hand delivered.

The local bidder preference program is applicable to this project. To be approved as a local bidder and receive bid preference on an eligible local project, the certification statement as a local bidder and all supporting documents must be submitted to the Procurement Department with your bonafide bid package.

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.

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 invitation are material conditions of the bid. 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 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 Procurement 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, please contact the Office of the Disadvantage Business Enterprise at 706-821-2406.

GERI A. SAMS, Procurement Director

Publish:

Augusta Chronicle	December 7, 14, 21, 28, 2006
Metro Courier	December 13, 2006

cc:	Tameka Allen	Interim Deputy Administrator
	Abie Ladson	Engineering
	Robert Oliver	Engineering
	Yvonne Gentry	DBE Coordinator

RFQ #06-202 East Augusta Roadway and Drainage Improvements Engineering Department RFQ due: Tuesday, January 23, 2007 @ 3:00 pm				
Vendor	Original	Five (5) copies	Fee	Addendum # 1
ARCADIS, 2849 Paces Ferry Rd. Suite 400, Atlanta, GA 30339	Yes	Yes	Yes	Yes
Gannett Fleming, Bldg 100, Suite 120, 2743 Perimeter Parkway, Augusta, GA 30909-0555	Yes	Yes	Yes	Yes
EMC Engineering Services, Inc., 23 East Charlton St., P O Box 8101, Savannah, GA 31412	Yes	Yes	Yes	Yes
Mabus Brothers, 920 Molly Pond Rd., Augusta, GA 30901				
Wolverton and Associates, Inc. 6745 Sugarload Parkway, Suite 100, Duluth, GA 30097				
W. K. Dickson, 1450 Greene St., Suite 225, Augusta, GA 30901	Yes	Yes	Yes	Yes
W. R. Toole, 349 Greene St., Augusta, GA 30901	Yes	Yes	Yes	Yes
Cranston Engineering Group, 452 Ellis St., Augusta, GA 30901	Yes	Yes	Yes	No*
Jordan, Jones and Goulding, 6801 Governors Lake Pkway, Bldg 200, Norcross, GA 30071				

*Cranston Engineering, non-compliant for not acknowledging receipt of addendum # 1 with RFQ

EMC Engineering Services, Inc.
23 East Charlton Street
Savannah, GA 31412
Attn: Mark Mobley

Cranston Robertson Whitehurst
452 Ellis Street
Augusta, GA 30903
Attn: Dennis Welch

W. K. Dickson & Co.
1640 Powers Ferry Rd.
Bldg. 11 Suite 100
Marietta, GA 30067
Attn: Donald Hawksley

ZEL Engineers
435 Telfair Street
Augusta, GA 30901
Attn: Jorge Jimenez

MEMORANDUM

DATE: February 26, 2007
TO: Abie L. Ladson
FROM: Geri A. Sams
SUBJECT: **Summary Scoring Sheet – RFQ # 06-202 East Augusta Roadway and Drainage Improvements –RFQ due date: January 23, 2007 3:00 p.m.**

Attached please find the Summary Scoring Sheet for the above request for qualification. Please note that the highest scoring vendor is W. R. Toole with a total average of 34.67.

Please ensure that the Procurement Department is in the workflow so we may attach the required documentation when the agenda item is being submitted with the recommended vendor through the MuniAgenda system for approval by the Board of Commission.

GAS/bc

Attachment (as indicated)

Request for Qualification
#06-202
East Augusta Roadway and Drainage Improvements
Engineering Department
Due Date: 1/23/07 3:00 PM

EVALUATION SHEET

	ARCADIS	GANNETT FLEMING	EMC	W.K.DICKSON	TOOLE
<u>QUALIFICATIONS</u> State of Georgia License Engineers to Project Individual(s) have experience with similar projects Qualified staff to perform test research and calculations Describe staff's unique qualifications and training for this type of work	24	27	29	27	26
<u>APPROACH TO PROJECT</u> Describe the approach to this project, special ideas and techniques	20	25	19	23	25
<u>EXPERIENCE</u> Describe the experience of firm and/or individuals assigned to similar projects	21	26	23	26	24
<u>SCHEDULE</u> Describe the anticipated work hours necessary to complete this project Provide schedule for the work will be completed	20	17	13	24	29
TOTAL RAW SCORES	85	95	84	100	104
AVERAGE SCORES (3) EVALUATORS	28.34	31.67	28	33.34	34.67



**Engineering Services Committee Meeting
3/9/2009 1:00 PM
Norfolk Southern-1108126 Deed of Easement**

Department: Augusta Utilities Department

Caption: Motion to approve and accept a Deed of Easement from Norfolk Southern, NS Activity #1108126.

Background: The Augusta Utilities Department project 60107 - Butler Creek Interceptor Upgrade East, Phase 1, requires a railroad crossing near Marvin Griffin Road. Norfolk Southern is the owner of this track.

Analysis: Norfolk Southern has agreed to enter into an easement agreement with Augusta, for the railroad crossing.

Financial Impact: \$5,000 for the crossing plus a \$1,000 Risk Financing Fee (supplemental insurance)

Alternatives: Deny the motion to approve and accept the easement agreement.

Recommendation: Approve and accept the Deed of Easement from Norfolk Southern.

Funds are Available in the Following Accounts: 510043420-5411120 80260107-5411120

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Law.
Administrator.
Clerk of Commission**

Norfolk Southern Activity Number: 1108126

DEED OF EASEMENT

THIS INDENTURE, made and entered into this 28th day of January, 2009, by and between **CENTRAL OF GEORGIA RAILROAD COMPANY**, a corporation organized and existing under the laws of the State of Georgia, whose mailing address is Three Commercial Place, Norfolk, Virginia 23510, Grantor, and **AUGUSTA, GEORGIA**, a Political Subdivision of the State of Georgia, Grantee:

WITNESSETH: That the said Grantor, for and in consideration of the sum of FIVE THOUSAND DOLLARS (\$5,000.00), and other valuable consideration paid by Grantee to Grantor, the receipt whereof is hereby acknowledged, does by these presents, GRANT unto Grantee, a 21-foot wide permanent easement in perpetuity, or right of way, for the construction, operation, maintenance and removal of a forty-eight (48) inch ductile iron sanitary sewer pipeline contained within a seventy-two (72) inch steel casing pipe in, under and across the land as hereinafter described, being situated at or near Augusta, Richmond County, Georgia, to wit:

PERMANENT EASEMENT:

All that strip, piece or parcel of land situate, lying and being in Richmond County, Georgia, and being more particularly described as follows:

(At Crossing #732969H, +/- 2,800 LF South of Marvin Griffin Road in Augusta, Georgia) commence at construction station 64+00, thence turn left and travel 5 feet to the **Point Of Beginning**; thence turning and traveling S 60°-38'-58" W for a distance of 85.31 feet to a point; thence turning and traveling N 40°-01'-06" W for a distance of 20.35 feet to a point; thence turning and traveling N 60°-38'-58" E for a distance of 90.02 feet to a point; thence turning and traveling S 26°-39'-26" E for a distance of 20.02 feet back to the point of beginning. Said permanent easement contains 1,753.29 square feet (0.048 Ac.) as substantially shown on a plan prepared by W.R. Toole Engineers, Inc., dated January 21, 2009, and marked Exhibit "A", a copy of which is attached hereto and by reference incorporated herewith.

SUBJECT, however, to such easements and restrictions as may appear of record or as may be apparent from an examination of the premises.

RESERVING, however, unto Grantor its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and lessees the right to continue to maintain, repair, renew and operate a railroad and appurtenances

across the easement area and to construct such additional track(s) and other railroad facilities across said easement area and to maintain, repair, renew and operate the same as in the judgment of Grantor, its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and/or lessees may be requisite.

RESERVING, further, unto Grantor, its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and/or lessees the right to install, construct, locate, maintain, repair and renew any fiber optic communications lines and associated structures and facilities related thereto across, under or over said easement area and to maintain, repair, renew and operate the same as in the judgment of Grantor, its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and/or lessees may be requisite.

TO HAVE AND TO HOLD the above described easement unto Grantee, its successors and assigns, so long as it or they may require the same for the purposes granted; PROVIDED, however, that this conveyance is made by Grantor upon the following conditions:

1. Grantor shall not be required to assume any expense in connection with or incident to any construction, maintenance, use or repair of any facilities located within said easement area and shall be exempt from any and all charges, costs or assessments of any kind or character on account of the construction, maintenance, use or repair of any facilities located within said easement area under and across the aforesaid parcel of land or adjacent property of Grantor.

2. If, at any time, the easement herein granted or any part thereof, shall no longer be used or required by Grantee, its successors or assigns, for the purposes which granted, the same shall terminate and Grantee, its successors or assigns, shall execute such instruments as now provided or as may be hereinafter provided by law to clear title to the aforesaid property.

3. Upon termination of the easement for any reason, Grantee shall properly fill in the pipes so that proper support for Grantor's facilities is maintained.

4. Grantor's Division Engineer at Atlanta, Georgia, shall be given at least seventy-two (72) hours' advance notice before entry upon the property. The Division Engineer is Mr. L. G. Bobbitt, Jr., whose telephone number is (404) 529-1387.

5. All reasonable care shall be exercised and such precautions taken as said Division Engineer, or his authorized representative, may deem necessary to protect Grantor's facilities and operations. Grantor reserves the right to place watchmen, flagmen, inspectors and supervisors for protection purposes during the operations hereunder and the expense thereof, including the expense of any material furnished, shall be promptly paid by Grantee upon receipt of Grantor's bill therefore. In addition to direct wage and material cost, such expense shall include, but shall not be limited to, cost of supervision, traveling expenses, Federal Railroad Retirement and Unemployment Taxes, vacation allowances and all other expense incidental thereto.

6. (a) Without limiting in any manner the liability and obligations assumed by Grantee under

any other provision of this Agreement, and as additional protection to Grantor, Grantee shall, at its expense, pay the Risk Financing Fee set forth in subparagraph (iii) below and shall procure and maintain with insurance companies satisfactory to Grantor, the insurance policies described in subparagraphs (i) and (ii).

(i) Prior to commencement of installation or maintenance of the Facilities or entry on Grantor's property, Grantee, and its contractor if it employs one, shall procure and maintain for the course of said installation and maintenance, a general liability insurance policy naming Grantor both as a certificate holder and as an additional insured, and containing products and completed operations and contractual liability coverage, with a combined single limit of not less than \$2,000,000 for each occurrence. Subject to Grantor's approval, Grantee may self-insure its obligation as required by this subparagraph (i).

(ii) Prior to commencement of any subsequent maintenance of the Facility during the term of this Agreement, Grantee, or its contractor if it employs one, shall furnish Grantor with an original Railroad Protective Liability Insurance Policy naming Grantor as the named insured and having a limit of not less than a combined single limit of \$2,000,000 each occurrence and \$6,000,000 aggregate. Subject to Grantor's approval, Grantee may self-insure its obligation as required by this subparagraph (ii).

(iii) Upon execution of this Agreement, Grantee shall pay Grantor a Risk Financing Fee of \$ 1,000.00 to provide for such supplemental insurance (which may be self-insurance) as Grantor, in its sole discretion, deems to be necessary or appropriate.

(b) All insurance required under preceding subsection (a) shall be underwritten by insurers and be of such form and content as may be acceptable to Grantor. Prior to commencement of installation or maintenance of the Facilities or any entry on Grantor's property, Grantee, or its contractor if it employs one, shall:

Furnish to Grantor's Risk Manager, Three Commercial Place, Norfolk Virginia 23510-2191 (or such other representative and/or address as subsequently given by Grantor to Grantee in writing), for approval, the original policy described in subsection (a)(ii) and a certificate of insurance evidencing the existence of a policy with the coverage described in subsection (a)(i).

7. No drainage conditions shall be created or allowed to exist which would be adverse to Grantor's property.

8. A minimum clearance of fifteen (15) feet from the centerline of the nearest track shall be maintained at all times for any material, equipment or vehicles of Grantee occupying Grantor's property unless authorized in writing by Grantor or Grantor's Superintendent.

9. Grantee will construct and maintain the pipelines, at its expense, in such a manner as will not interfere with the operations of Grantor or endanger persons or property of Grantor, and in accordance with (a) plans and specifications prescribed by Grantor, (b) applicable governmental regulations or laws, and (c) applicable specifications adopted by the American Railway Engineering Association when not in conflict with plans, specifications or regulations mentioned in (a) and (b) above.

10. If Grantor shall make any changes, alterations in or additions to the line, grade, tracks, structures, roadbed, installations or works of Grantor at or near the pipelines, Grantor shall, at its own cost and expense, make such changes in the location and character of the Facilities as, in the opinion of the chief engineering officer of Grantor, shall be necessary or appropriate to accommodate any construction, improvements, alterations, changes or additions of Grantor.

11. Grantee will notify Grantor prior to the installation and placing in service of cathodic protection in order that tests may be conducted on Grantor's signal, communications and other electronic systems for possible interference. If the pipelines cause degradation of the signal, communications or other electronic facilities of Grantor, Grantee, at its expense, will relocate the cathodic protection and/or modify the Facilities to the satisfaction of Grantor so as to eliminate such degradation. Such modifications may include, without limiting the generality of the foregoing, providing additional shielding, reactances or other corrective measures deemed necessary by Grantor. This provision applies to the existing signal, communications and electronic equipment of Grantor and to any signal, communications or electronic equipment which Grantor may install in the future.

12. If Grantee fails to take any corrective measures requested by Grantor in a timely manner or if an emergency situation is presented which, in the Grantor's judgment, requires immediate repairs to the facilities, Grantor, at Grantee's expense, may undertake such corrective measures or repairs as it deems necessary or desirable.

13. It is further agreed between the parties that the premises shall be used by Grantee only for the pipelines and for no other purpose without the written permission of the chief engineering office of Grantor.

IN WITNESS WHEREOF, the said Grantor, have caused these presents to be signed by its Real Estate Manager and its corporate seal attested by its Assistant Corporate Secretary, to be hereunto affixed the day and year first above written.

In the presence of:

CENTRAL OF GEORGIA RAILROAD COMPANY
By: *LVH*

Judy Nash

Witness

PG Carrell

Real Estate Manager

Virginia L. Moody

Notary Public

Attest: *Kimisha O. Swain*



Accepted, this _____ day of _____, 2009.

AUGUSTA, GEORGIA

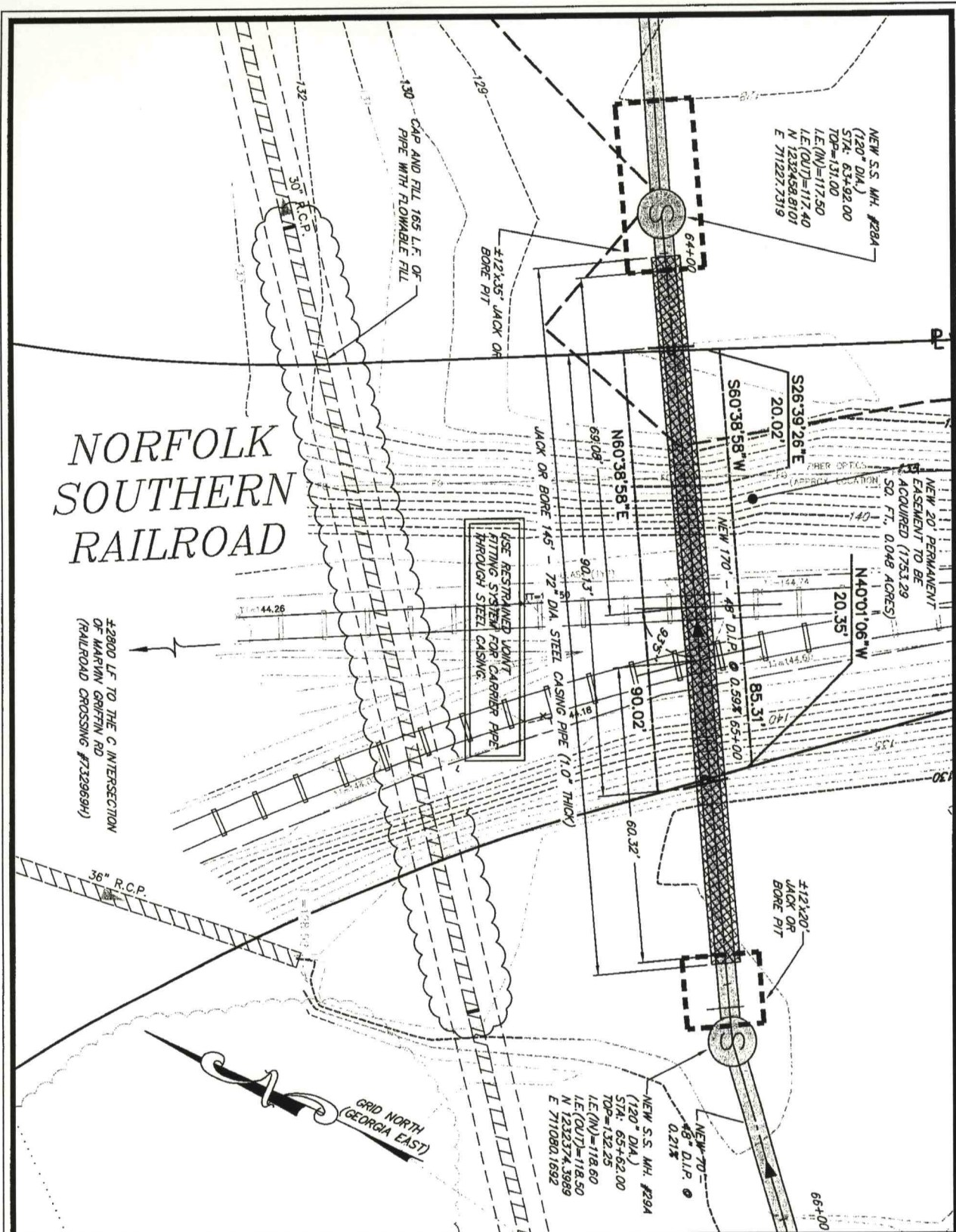
By: _____
Deke Coppenhaver
As Its Mayor

Attest: _____
As It Clerk of Commission

SIGNED, SEALED AND DELIVERED In the presence of:

Notary Public

(SEAL)



LOCATION:
CROSSING #732969H
±2,800 LF SOUTH OF
MARVIN GRIFFIN ROAD

PLAN

1"=20'





**Engineering Services Committee Meeting
3/9/2009 1:00 PM
Norfolk Southern-1108127 Deed of Easement**

Department: Augusta Utilities Department

Caption: Motion to approve and accept a Deed of Easement from Norfolk Southern, NS Activity #1108127.

Background: The Augusta Utilities Department project 60108 - Butler Creek Interceptor Upgrade, Phase 2, requires a railroad crossing near Phinizy Road. Norfolk Southern is the owner of the tracks.

Analysis: Norfolk Southern has agreed to enter into an easement agreement with Augusta.

Financial Impact: \$5,000 for the crossing and \$1,000 for a Risk Financing Fee (supplemental insurance)

Alternatives: Deny the motion to approve and accept a Deed of Easement with Norfolk Southern.

Recommendation: Approve and accept the Deed of Easement from Norfolk Southern.

Funds are Available in the Following Accounts: 510043420-5411120 80260108-5411120

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Law.
Administrator.
Clerk of Commission**

Norfolk Southern Activity Number: 1108127

DEED OF EASEMENT

THIS INDENTURE, made and entered into this 28th day of January, 2009, by and between **CENTRAL OF GEORGIA RAILROAD COMPANY**, a corporation organized and existing under the laws of the State of Georgia, whose mailing address is Three Commercial Place, Norfolk, Virginia 23510, Grantor, and **AUGUSTA, GEORGIA**, a Political Subdivision of the State of Georgia, Grantee:

WITNESSETH: That the said Grantor, for and in consideration of the sum of FIVE THOUSAND DOLLARS (\$5,000.00), and other valuable consideration paid by Grantee to Grantor, the receipt whereof is hereby acknowledged, does by these presents, GRANT unto Grantee, a 20-foot wide permanent easement in perpetuity, or right of way, for the construction, operation, maintenance and removal of a forty-two (42) inch ductile iron sanitary sewer pipeline contained within a sixty (60) inch steel casing pipe in, under and across the land as hereinafter described, being situated at or near Augusta, Richmond County, Georgia, to wit:

PERMANENT EASEMENT:

All that strip, piece or parcel of land situate, lying and being in Richmond County, Georgia, and being more particularly described as follows:

(At Crossing #734132N, +/- 85 LF South of Phinizy Road in Augusta, Georgia) commence at construction station 182+88.00, thence turn left and travel 5 feet to the **Point Of Beginning**; thence turning and traveling N 66°-55'-11" W for a distance of 59.98 feet to a point; thence turning and traveling N 23°-32'-45" E for a distance of 20.00 feet to a point; thence turning and traveling S 66°-55'-11" E for a distance of 59.98 feet to a point; thence turning and traveling S 23°-32'-39" W for a distance of 20.00 feet back to the point of beginning. Said permanent easement contains 1,199.61 square feet (0.028 Ac.) as substantially shown on a plan prepared by W.R. Toole Engineers, Inc., dated January 21, 2009, and marked Exhibit "A", a copy of which is attached hereto and by reference incorporated herewith.

SUBJECT, however, to such easements and restrictions as may appear of record or as may be apparent from an examination of the premises.

RESERVING, however, unto Grantor its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and lessees the right to continue to maintain, repair, renew and operate a railroad and appurtenances

across the easement area and to construct such additional track(s) and other railroad facilities across said easement area and to maintain, repair, renew and operate the same as in the judgment of Grantor, its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and/or lessees may be requisite.

RESERVING, further, unto Grantor, its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and/or lessees the right to install, construct, locate, maintain, repair and renew any fiber optic communications lines and associated structures and facilities related thereto across, under or over said easement area and to maintain, repair, renew and operate the same as in the judgment of Grantor, its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and/or lessees may be requisite.

TO HAVE AND TO HOLD the above described easement unto Grantee, its successors and assigns, so long as it or they may require the same for the purposes granted; PROVIDED, however, that this conveyance is made by Grantor upon the following conditions:

1. Grantor shall not be required to assume any expense in connection with or incident to any construction, maintenance, use or repair of any facilities located within said easement area and shall be exempt from any and all charges, costs or assessments of any kind or character on account of the construction, maintenance, use or repair of any facilities located within said easement area under and across the aforesaid parcel of land or adjacent property of Grantor.

2. If, at any time, the easement herein granted or any part thereof, shall no longer be used or required by Grantee, its successors or assigns, for the purposes which granted, the same shall terminate and Grantee, its successors or assigns, shall execute such instruments as now provided or as may be hereinafter provided by law to clear title to the aforesaid property.

3. Upon termination of the easement for any reason, Grantee shall properly fill in the pipes so that proper support for Grantor's facilities is maintained.

4. Grantor's Division Engineer at Atlanta, Georgia, shall be given at least seventy-two (72) hours' advance notice before entry upon the property. The Division Engineer is Mr. L. G. Bobbitt, Jr., whose telephone number is (404) 529-1387.

5. All reasonable care shall be exercised and such precautions taken as said Division Engineer, or his authorized representative, may deem necessary to protect Grantor's facilities and operations. Grantor reserves the right to place watchmen, flagmen, inspectors and supervisors for protection purposes during the operations hereunder and the expense thereof, including the expense of any material furnished, shall be promptly paid by Grantee upon receipt of Grantor's bill therefore. In addition to direct wage and material cost, such expense shall include, but shall not be limited to, cost of supervision, traveling expenses, Federal Railroad Retirement and Unemployment Taxes, vacation allowances and all other expense incidental thereto.

6. (a) Without limiting in any manner the liability and obligations assumed by Grantee under

any other provision of this Agreement, and as additional protection to Grantor, Grantee shall, at its expense, pay the Risk Financing Fee set forth in subparagraph (iii) below and shall procure and maintain with insurance companies satisfactory to Grantor, the insurance policies described in subparagraphs (i) and (ii).

(i) Prior to commencement of installation or maintenance of the Facilities or entry on Grantor's property, Grantee, and its contractor if it employs one, shall procure and maintain for the course of said installation and maintenance, a general liability insurance policy naming Grantor both as a certificate holder and as an additional insured, and containing products and completed operations and contractual liability coverage, with a combined single limit of not less than \$2,000,000 for each occurrence. Subject to Grantor's approval, Grantee may self-insure its obligation as required by this subparagraph (i).

(ii) Prior to commencement of any subsequent maintenance of the Facility during the term of this Agreement, Grantee, or its contractor if it employs one, shall furnish Grantor with an original Railroad Protective Liability Insurance Policy naming Grantor as the named insured and having a limit of not less than a combined single limit of \$2,000,000 each occurrence and \$6,000,000 aggregate. Subject to Grantor's approval, Grantee may self-insure its obligation as required by this subparagraph (ii).

(iii) Upon execution of this Agreement, Grantee shall pay Grantor a Risk Financing Fee of \$ 1,000.00 to provide for such supplemental insurance (which may be self-insurance) as Grantor, in its sole discretion, deems to be necessary or appropriate.

(b) All insurance required under preceding subsection (a) shall be underwritten by insurers and be of such form and content as may be acceptable to Grantor. Prior to commencement of installation or maintenance of the Facilities or any entry on Grantor's property, Grantee, or its contractor if it employs one, shall:

Furnish to Grantor's Risk Manager, Three Commercial Place, Norfolk Virginia 23510-2191 (or such other representative and/or address as subsequently given by Grantor to Grantee in writing), for approval, the original policy described in subsection (a)(ii) and a certificate of insurance evidencing the existence of a policy with the coverage described in subsection (a)(i).

7. No drainage conditions shall be created or allowed to exist which would be adverse to Grantor's property.

8. A minimum clearance of fifteen (15) feet from the centerline of the nearest track shall be maintained at all times for any material, equipment or vehicles of Grantee occupying Grantor's property unless authorized in writing by Grantor or Grantor's Superintendent.

9. Grantee will construct and maintain the pipelines, at its expense, in such a manner as will not interfere with the operations of Grantor or endanger persons or property of Grantor, and in accordance with (a) plans and specifications prescribed by Grantor, (b) applicable governmental regulations or laws, and (c) applicable specifications adopted by the American Railway Engineering Association when not in conflict with plans, specifications or regulations mentioned in (a) and (b) above.

10. If Grantor shall make any changes, alterations in or additions to the line, grade, tracks, structures, roadbed, installations or works of Grantor at or near the pipelines, Grantor shall, at its own cost and expense, make such changes in the location and character of the Facilities as, in the opinion of the chief engineering officer of Grantor, shall be necessary or appropriate to accommodate any construction, improvements, alterations, changes or additions of Grantor.

11. Grantee will notify Grantor prior to the installation and placing in service of cathodic protection in order that tests may be conducted on Grantor's signal, communications and other electronic systems for possible interference. If the pipelines cause degradation of the signal, communications or other electronic facilities of Grantor, Grantee, at its expense, will relocate the cathodic protection and/or modify the Facilities to the satisfaction of Grantor so as to eliminate such degradation. Such modifications may include, without limiting the generality of the foregoing, providing additional shielding, reactances or other corrective measures deemed necessary by Grantor. This provision applies to the existing signal, communications and electronic equipment of Grantor and to any signal, communications or electronic equipment which Grantor may install in the future.

12. If Grantee fails to take any corrective measures requested by Grantor in a timely manner or if an emergency situation is presented which, in the Grantor's judgment, requires immediate repairs to the facilities, Grantor, at Grantee's expense, may undertake such corrective measures or repairs as it deems necessary or desirable.

13. It is further agreed between the parties that the premises shall be used by Grantee only for the pipelines and for no other purpose without the written permission of the chief engineering office of Grantor.

IN WITNESS WHEREOF, the said Grantor, have caused these presents to be signed by its Real Estate Manager and its corporate seal attested by its Assistant Corporate Secretary, to be hereunto affixed the day and year first above written.

In the presence of:

CENTRAL OF GEORGIA RAILROAD COMPANY

By: *LvH*

Pg Curran

Real Estate Manager

Attest:

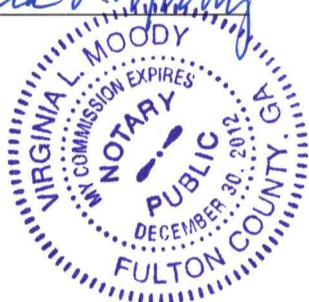
Kimberly O. Swain

C. J. Powell

Witness

Virginia L. Moody

Notary Public



Accepted, this _____ day of _____, 2009.

AUGUSTA, GEORGIA

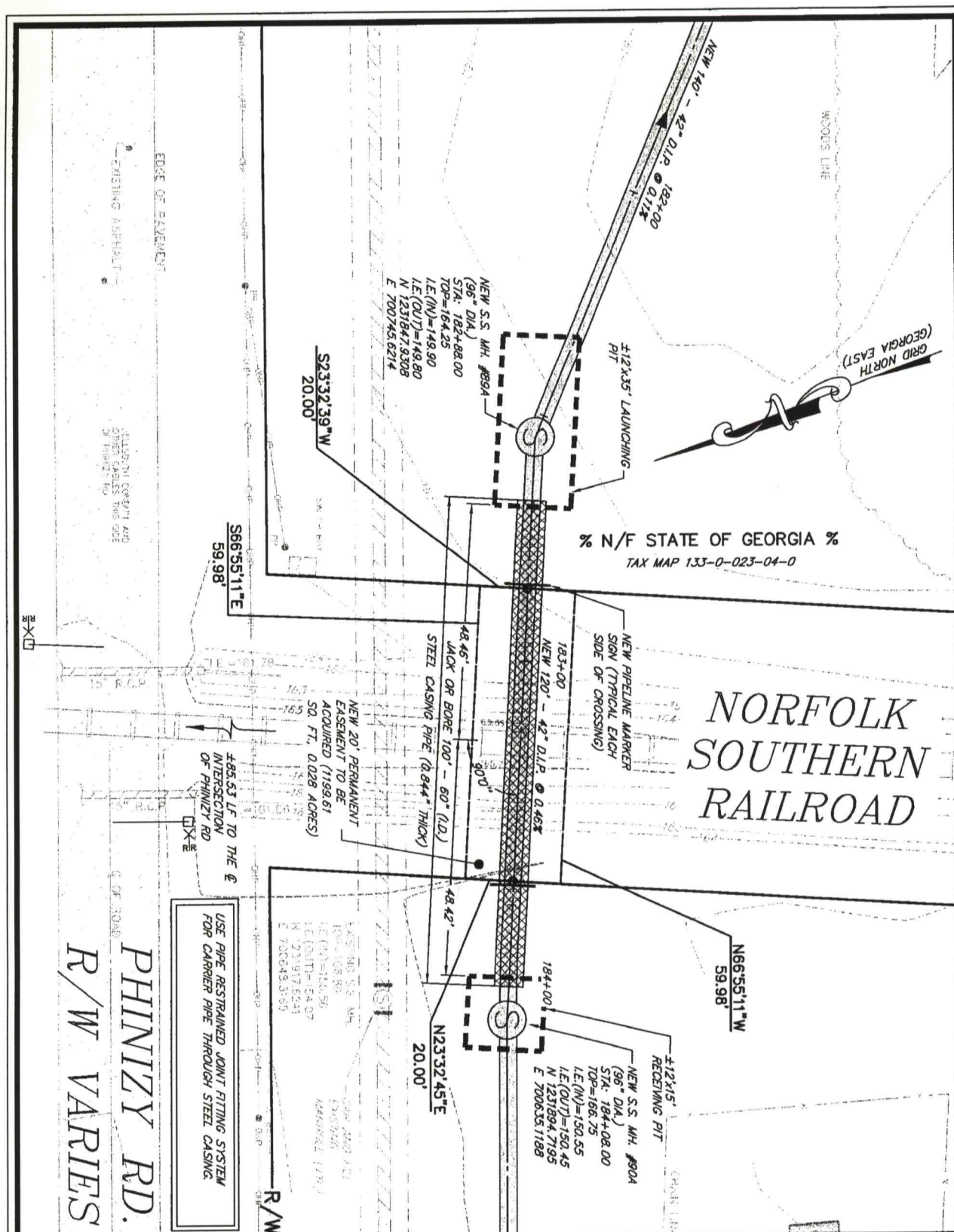
By: _____
Deke Coppenhaver
As Its Mayor

Attest: _____
As It Clerk of Commission

SIGNED, SEALED AND DELIVERED In the presence of:

Notary Public

(SEAL)



LOCATION:
CROSSING #734132N
±85 LF SOUTH OF
PHINIZY ROAD

PLAN





**Engineering Services Committee Meeting
3/9/2009 1:00 PM
Southern Region Industrial Realty Easement Deed**

Department: Augusta Utilities Department

Caption: Motion to approve an Easement Deed from Southern Region Industrial Realty, Inc.

Background: The Augusta Utilities Department has future plans to replace the Butler Creek Interceptor AUD Project #60107). In order to construct this project, an easement is needed from Southern Region Industrial Realty.

Analysis: The property in question is the parcel at the southerneastern corner of Marvin Griffin Road and Doug Barnard Parkway. Southern Region Industrial Realty (SRIR) is a subsidiary of Norfolk Southern. There are no railroad facilities on this property. The easement was appraised and that is the amount indicated in the Easement Deed.

Financial Impact: \$17,561.00

Alternatives: Deny motion to approve an Easement Deed from Southern Region Industrial Realty, Inc.

Recommendation: Approve motion to approve an Easement Deed from Southern Region Industrial Realty, Inc.

Funds are Available in the Following Accounts: G/L 511043420-5411120 J/L 80360107-5411120

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Law.
Administrator.
Clerk of Commission**

STATE OF GEORGIA

COUNTY OF RICHMOND

DEED OF EASEMENT

THIS INDENTURE, made and entered into this 16th day of February, 2009, by and between **Southern Region Industrial Realty, Inc., as successor to Empire Land Company**, a corporation organized and existing under the laws of the State of Georgia, whose mailing address is Three Commercial Place, Norfolk, Virginia 23510, Grantor, and **Augusta, Georgia**, a Political Subdivision of the State of Georgia, Grantee:

WITNESSETH: That the said Grantor, for and in consideration of the sum of Seventeen Thousand Five Hundred Sixty One Dollars and no cents (\$17,561.00), and other valuable consideration, paid by Grantee to Grantor, the receipt whereof is hereby acknowledged, does by these presents, GRANT unto Grantee, a non-exclusive permanent utility, maintenance and access easement, of varying widths, in perpetuity, or right of way, for the construction, operation, maintenance and removal of a 48" sanitary sewer main pipe, in under and across the land as hereinafter described, being situated at or near Augusta, Richmond County, Georgia, to wit:

PERMANENT EASEMENT:

All that strip, piece or parcel of land situate, lying and being in Richmond County, Georgia, and being more particularly described as follows:

First portion of permanent easement: Beginning at the southeastern right-of-way of Marvin Griffin Road, where it intersects with the western right-of-way of Doug Barnard Parkway (SR 56 Loop), and traveling 491.30 feet southeast along the Western right-of-way of Doug Barnard Parkway to the **Point Of Beginning**; thence traveling S 35°43'50" E for a distance of 98.04 feet to a point; thence turning and traveling S 54°16'10" W for a distance of 30.00 feet to a point; thence turning and traveling S 35°43'50" E for a distance of 588.41 feet to a point; thence turning and traveling

S 35°29'53" E for a distance of 240.54 feet to a point; thence turning and traveling S 35°14'40" E for a distance of 224.81 feet to a point; thence turning and traveling S 37°28'39" E for a distance of 101.71 feet to a point; then turning and traveling S 37°28'39" E for a distance of 86.75 feet to a point; thence turning and traveling S 65°36'24" W for a distance of 41.71 feet to a point; thence turning and traveling N 16°19'40" W for a distance of 84.89 feet to a point; thence turning and traveling N 37°28'39" W for a distance of 99.84 feet to a point; thence turning and traveling N 35°14'40" W for a distance of 225.20 feet to a point; thence turning and traveling N 35°29'53" W for a distance of 240.45 feet to a point; thence turning and traveling N 35°43'50" W for a distance of 685.64 feet to a point; thence turning and traveling N 53°10'11" E for a distance of 40.01 feet back to the point of beginning.

Second portion of permanent easement: Beginning at the southeastern right-of-way of Marvin Griffin Road, where it intersects with the western right-of-way of Doug Barnard Parkway (SR 56 Loop), and traveling 491.30 feet southeast along the Western right-of-way of Doug Barnard Parkway to a point; thence traveling S 35°43'50" E for a distance of 98.04 feet to a point; thence turning and traveling S 54°16'10" W for a distance of 30.00 feet to a point; thence turning and traveling S 35°43'50" E for a distance of 588.41 feet to a point; thence turning and traveling S 35°29'53" E for a distance of 240.54 feet to a point; thence turning and traveling S 35°14'40" E for a distance of 224.81 feet to a point; thence turning and traveling S 37°28'39" E for a distance of 101.71 feet to a point; then turning and traveling S 37°28'39" E for a distance of 86.75 feet to a point; thence turning and traveling S 37°28'39" E for a distance of 10 feet, more or less, to the **Point Of Beginning**; thence turning and traveling S 37°28'39" E for a distance of 30.72 feet to a point; thence turning and traveling S 30°51'20" E for a distance of 15.13 feet to a point; thence turning and traveling S 66°07'24" W for a distance of 549.38 feet to a point; thence turning and traveling S 65°41'33" W for a distance of 499.84 feet to a point; thence turning and traveling S 64°16'53" W for a distance of 267.39 feet to a point; thence turning and traveling N 27°00'38" W for a distance of 33.40 feet to a point; thence turning and traveling N 64°02'58" E for a distance of 285.71 feet to a point; thence turning and traveling N 65°40'30" E for a distance of 392.63 feet to a point; thence turning and traveling N 64°54'43" E for a distance of 393.96 feet to a point; thence turning and traveling N 65°36'24" E for a distance of 237.22 feet back to the point of beginning.

Said permanent easements contain 66,915 square feet (1.54 Acres) as substantially shown on a plat prepared by W.R. Toole Engineers, Inc., consisting of sheet numbers 1,2,3,4,and 5, dated August 27, 2007, a copy of which is attached hereto and by reference incorporated herewith.

Also included is a temporary construction easement, as shown on said plat, consisting of 55,710 square feet (1.28 Acres). Said easement is granted together with the right to dig such trenches in said parcel of land as may be necessary for the Project, to pile thereon the material excavated, and to haul pipe, supplies and equipment connected with the construction and maintenance thereof, over, along and across the said parcel of land. Said temporary easement shall expire at the completion and final acceptance of the Project by Augusta.

SUBJECT, however, to such easements and restrictions as may appear of record or as may be apparent from an examination of the premises.

RESERVING, further, unto Grantor, its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and/or lessees the right to install, construct, locate, maintain, repair and renew any fiber optic communications lines and associated structures and facilities related thereto across, under or over said easement area and to maintain, repair, renew and operate the same as in the judgment of Grantor, its affiliates, subsidiaries, parent corporations, successors, assigns, licensees and/or lessees may be requisite.

TO HAVE AND TO HOLD the above described easement unto Grantee, its successors and assigns, so long as it or they may require the same for the purposes granted; PROVIDED, however, that this conveyance is

made by Grantor upon the following conditions:

1. Grantor shall not be required to assume any expense in connection with or incident to any construction, maintenance, use or repair of any facilities located within said easement area and shall be exempt from any and all charges, costs or assessments of any kind or character on account of the construction, maintenance, use or repair of any facilities located within said easement area under and across the aforesaid parcel of land or adjacent property of Grantor.
2. If, at any time, the easement herein granted or any part thereof, shall no longer be used or required by Grantee, its successors or assigns, for the purposes which granted, the same shall terminate and Grantee, its successors or assigns, shall execute such instruments as now provided or as may be hereinafter provided by law to clear title to the aforesaid property.
3. Upon termination of the easement for any reason, Grantee shall properly fill in the pipes so that proper support for Grantor's facilities is maintained.
4. Grantor's Division Engineer at Atlanta, Georgia, shall be given at least seventy-two (72) hours' advance notice before entry upon the property. The Division Engineer is Mr. L. G. Bobbitt, Jr., whose telephone number is (404) 529-1387.
5. No drainage conditions shall be created or allowed to exist which would be adverse to Grantor's property.
6. Grantee will construct and maintain the pipelines, at its expense, in such a manner as will not interfere with the operations of Grantor or endanger persons or property of Grantor, and in accordance with (a) plans and specifications prescribed by Grantor, (b) applicable governmental regulations or laws, and (c) applicable specifications adopted by the American Railway Engineering Association when not in conflict with plans, specifications or regulations mentioned in (a) and (b) above.
7. Grantee will notify Grantor prior to the installation and placing in service of cathodic protection in order that tests may be conducted on Grantor's signal, communications and other electronic systems for possible interference. If the pipelines cause degradation of the signal, communications or other electronic facilities of Grantor, Grantee, at its expense, will relocate the cathodic protection and/or modify the Facilities to the satisfaction of Grantor so as to eliminate such degradation. Such modifications may include, without limiting the generality of the foregoing, providing additional shielding, reactances or other corrective measures deemed necessary by Grantor. This provision applies to the existing signal, communications and electronic equipment of Grantor and to any signal, communications or electronic equipment which Grantor may install in the future.
8. If Grantee fails to take any corrective measures requested by Grantor in a timely manner or if an emergency situation is presented which, in the Grantor's judgment, requires immediate repairs to the facilities, Grantor, at Grantee's expense, may undertake such corrective measures or repairs as it deems necessary or desirable.
9. It is further agreed between the parties that the premises shall be used by Grantee only for the pipelines and for no other purpose without the written permission of the chief engineering office of Grantor.

IN WITNESS WHEREOF, the said Grantor, have caused these presents to be signed by its Real Estate

Manager and its corporate seal attested by its Assistant Corporate Secretary, to be hereunto affixed the day and year first above written.

Signed, sealed and delivered

In the presence of:

SOUTHERN REGION INDUSTRIAL REALTY, INC.

BY: *LVH*

Barbara C Baden
Witness

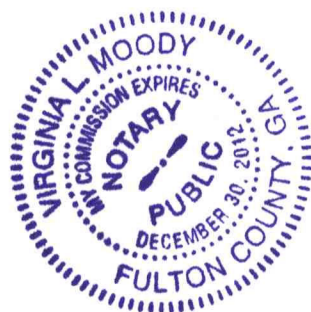
PG Curran
Real Estate Manager

Virginia L Moody
Notary Public

ATTEST:

Virginia L Moody
Assistant Corporate Secretary

My Commission Expires: *12-30-2012*



Accepted, this _____ day of _____, 2009.

AUGUSTA, GEORGIA

By: _____
Deke Coppenhaver
As Its Mayor

Attest: _____
As It Clerk of Commission

SIGNED, SEALED AND DELIVERED In the presence of:

Notary Public

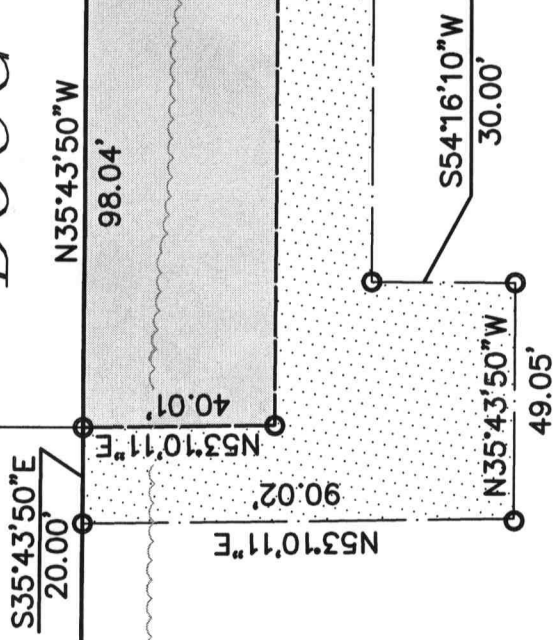
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PROPERTIES INFORMATION:

OWNER	TAX MAP	PARCEL	T.C.E. TO BE ACQUIRED	PERM. S.S. EASEMENT TO BE ACQUIRED
SOUTHERN REGION INDUSTRIAL	135	4	55,710 SQ. FT., 1.28 ACRES	66,915 SQ. FT., 1.54 ACRES

491.30' TO & INTERSECTION
OF MARVIN GRIFFIN ROAD

DOUG BARNARD PKWY. (SR 56 LOOP) - R/W VARIES



30' UTILITY, DRAINAGE & ACCESS EASEMENT

NEW PERMANENT SANITARY
SEWER EASEMENT

NEW TEMPORARY
CONSTRUCTION
EASEMENT

% N/F SOUTHERN REGION INDUSTRIAL %
TAX MAP 135-0-004-00-0

WOODS

GRID NORTH
(GEORGIA EAST)

Attachment number 2
Page 1 of 5

- COMPILED EASEMENT MAP FOR -
AUGUSTA-RICHMOND
COUNTY COMMISSION

SHOWING PROPERTY LOCATED IN 85th G.M.D., IN AUGUSTA, GEORGIA..

RICHMOND COUNTY, GEORGIA



DATE

AUGUST 22, 2007

- PREPARED BY -



W R Toole Engineers, Inc.

349 Greene St. • Augusta, Ga. 30901 • 706.722.4114 • www.wrtoole.com

Engineers • Consultants • Planners

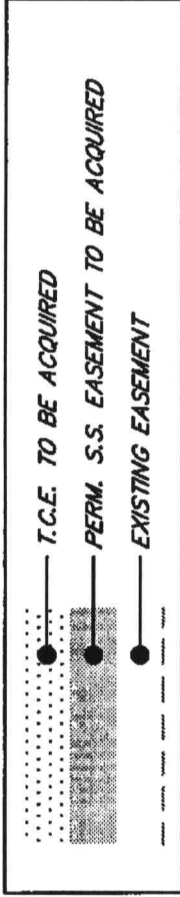
JOB #06009ESMTS.DWG JDR

SHEET #1

SHEET 1
SHEET 2

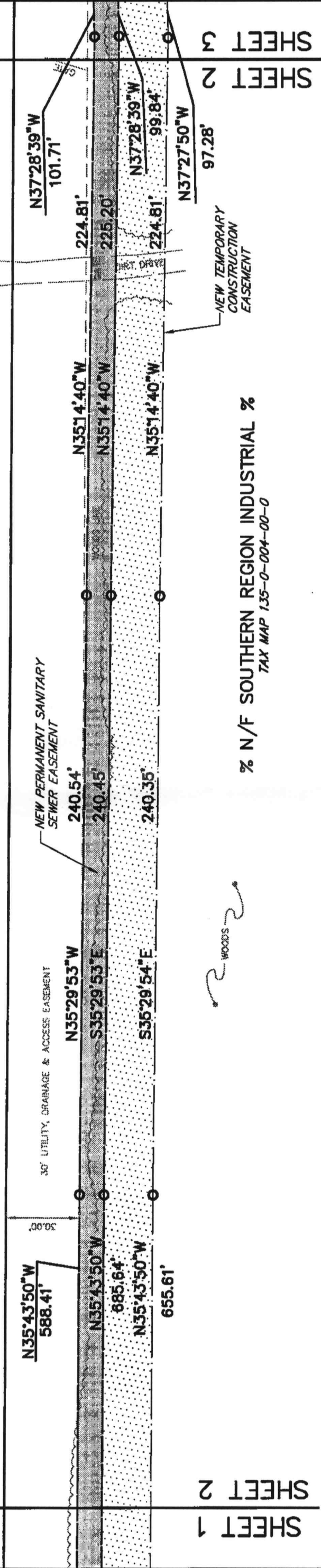
PROPERTIES INFORMATION:

OWNER	TAX MAP	PARCEL	T.C.E. TO BE ACQUIRED	PERM. S.S. EASEMENT TO BE ACQUIRED
SOUTHERN REGION INDUSTRIAL	135	4	55,710 SQ. FT., 1.28 ACRES	66,915 SQ. FT., 1.54 ACRES



NOTE: THIS EASEMENT MAP MAY NOT SHOW ALL EASEMENTS THAT ENCUMBER THIS PROPERTY.

DOUG BARNARD PKWY. (SR 56 LOOP) - R/W VARIES



% N/F SOUTHERN REGION INDUSTRIAL %
TAX MAP 135-0-004-00-0

SHEET 1

SHEET 2

SHEET 3

- COMPILED EASEMENT MAP FOR -
AUGUSTA-RICHMOND
COUNTY COMMISSION

Attachment number 2
Page 2 of 5

SHOWING PROPERTY LOCATED IN 85th G.M.D., IN AUGUSTA, GEORGIA.



RICHMOND COUNTY, GEORGIA



DATE

AUGUST 22, 2007

- PREPARED BY -



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JOB #06009ESMITS.DWG .JDR

SHEET #2

PROPERTIES INFORMATION:

OWNER	TAX MAP	PARCEL	T.C.E. TO BE ACQUIRED	PERM. S.S. EASEMENT TO BE ACQUIRED
SOUTHERN REGION INDUSTRIAL	1.35	4	55,710 SQ. FT., 1.28 ACRES	66,915 SQ. FT., 1.54 ACRES

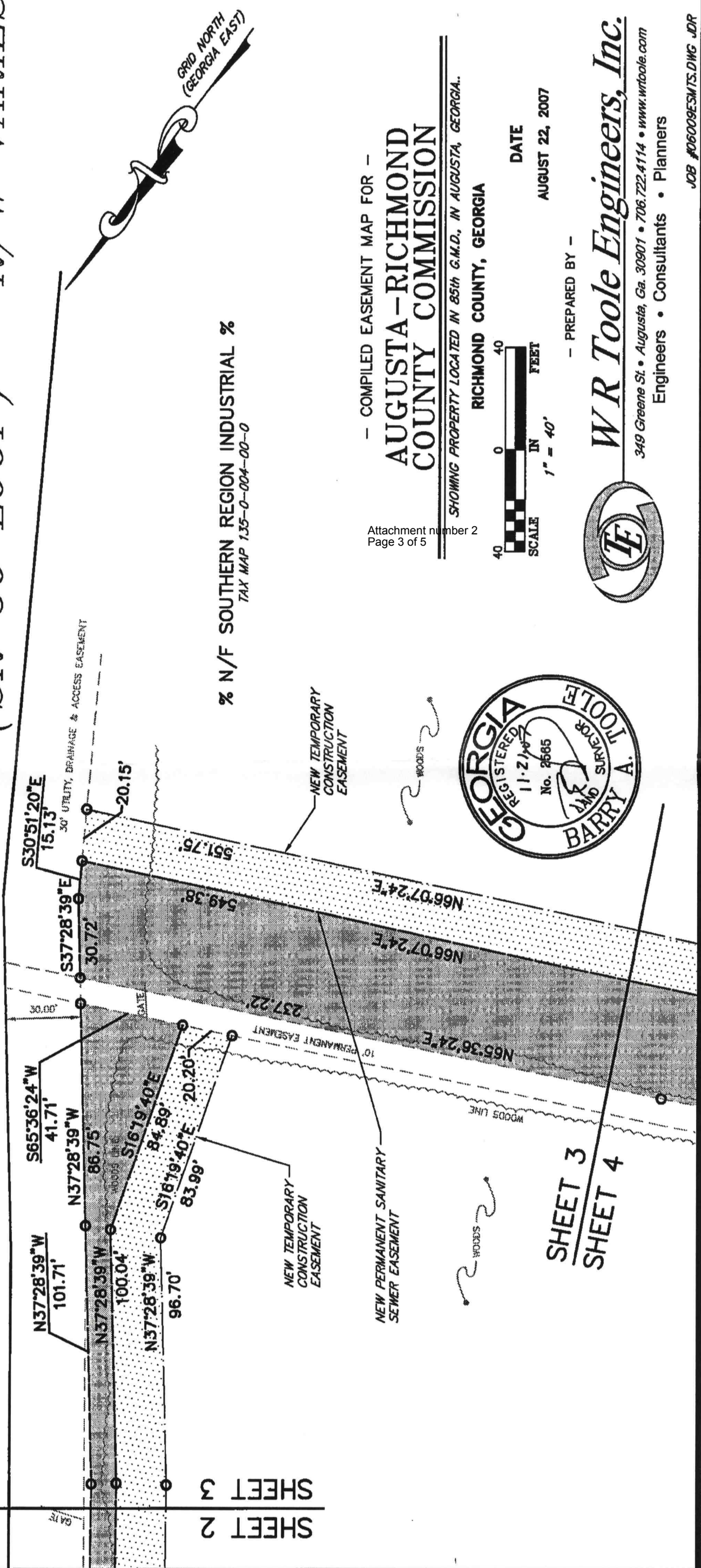
T.C.E. TO BE ACQUIRED

PERM. S.S. EASEMENT TO BE ACQUIRED

EXISTING EASEMENT

NOTE: THIS EASEMENT MAP MAY NOT SHOW ALL EASEMENTS THAT ENCUMBER THIS PROPERTY.

DOUG BARNARD PKWY.
(SR 56 LOOP) - R/W VARIES



% N/F SOUTHERN REGION INDUSTRIAL %
TAX MAP 135-0-004-00-0

- COMPILED EASEMENT MAP FOR -
**AUGUSTA-RICHMOND
COUNTY COMMISSION**

SHOWING PROPERTY LOCATED IN 85th C.M.D., IN AUGUSTA, GEORGIA.

RICHMOND COUNTY, GEORGIA

40 0 40

SCALE

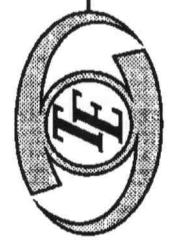
IN FEET

1" = 40'

DATE

AUGUST 22, 2007

- PREPARED BY -



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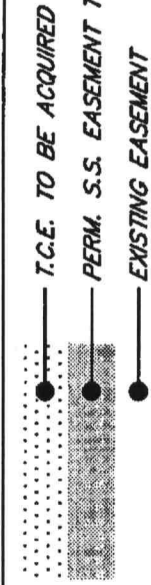
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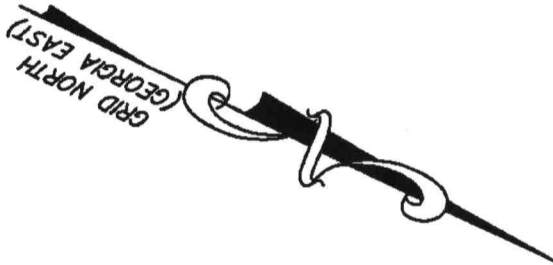
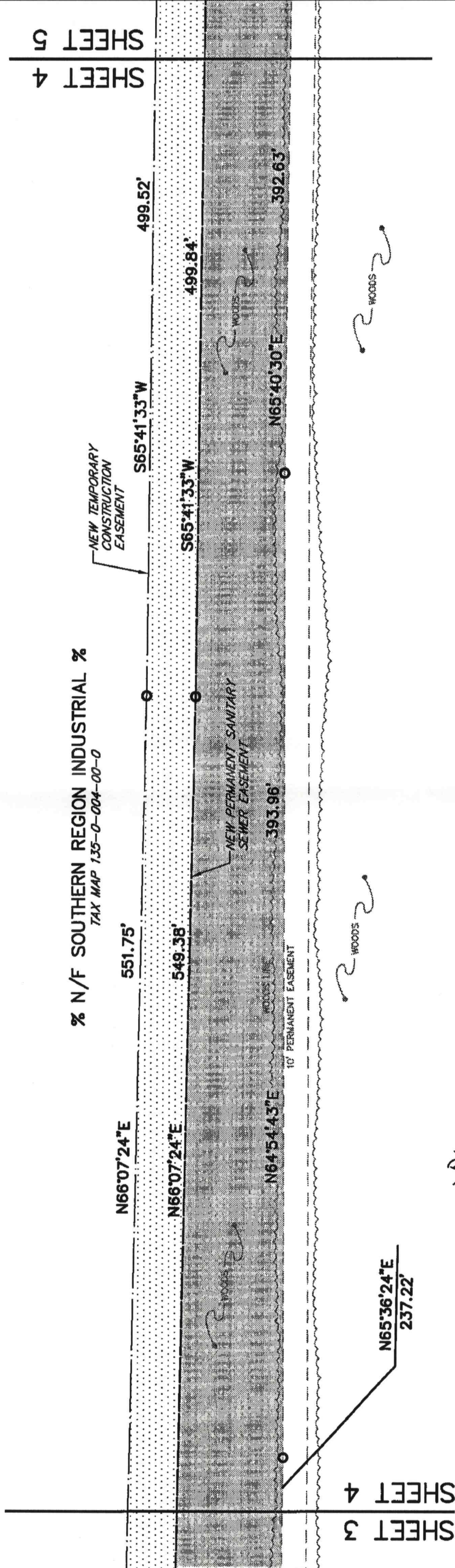
SHEET 3
SHEET 4

PROPERTIES INFORMATION:

OWNER	TAX MAP	PARCEL	T.C.E. TO BE ACQUIRED	PERM. S.S. EASEMENT TO BE ACQUIRED
SOUTHERN REGION INDUSTRIAL	135	4	55,710 SQ. FT., 1.28 ACRES	66,915 SQ. FT., 1.54 ACRES



NOTE: THIS EASEMENT MAP MAY NOT SHOW ALL EASEMENTS THAT ENCUMBER THIS PROPERTY.



Attachment number 2
Page 4 of 5

— COMPILED EASEMENT MAP FOR —
**AUGUSTA—RICHMOND
COUNTY COMMISSION**

SHOWING PROPERTY LOCATED IN 85th G.M.D., IN AUGUSTA, GEORGIA.

RICHMOND COUNTY, GEORGIA



DATE
AUGUST 22, 2007

— PREPARED BY —



W R Toole Engineers, Inc.

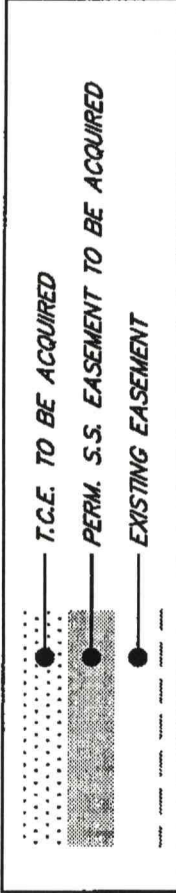
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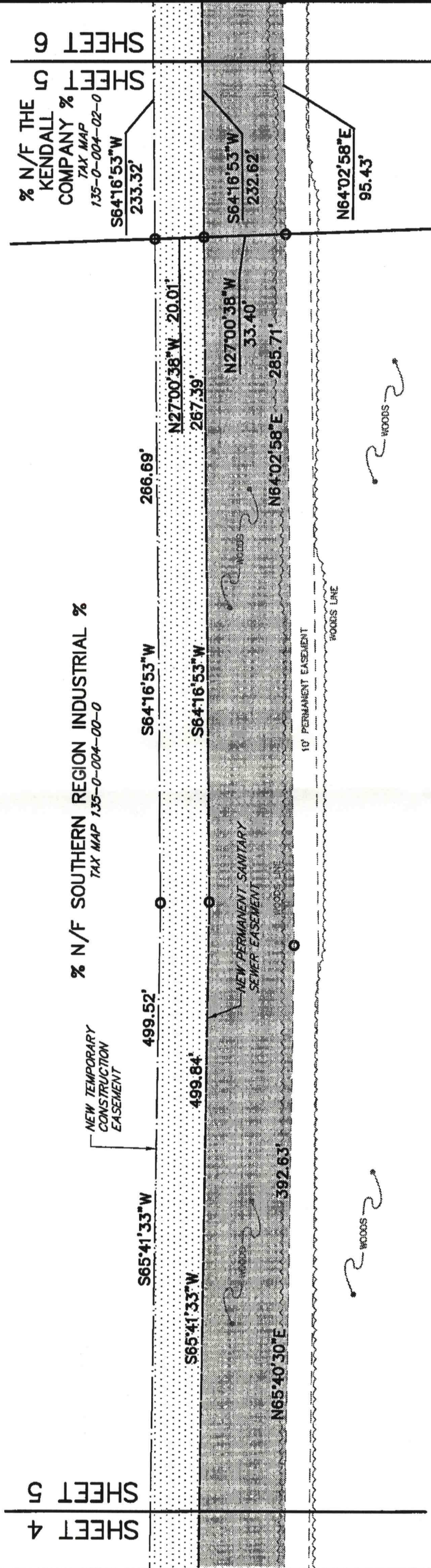
JOB #06009ESM.TS.DWG JDR

PROPERTIES INFORMATION:

OWNER	TAX MAP	PARCEL	T.C.E. TO BE ACQUIRED	PERM. S.S. EASEMENT TO BE ACQUIRED
SOUTHERN REGION INDUSTRIAL	135	4	55,710 SQ. FT., 1.28 ACRES	66,915 SQ. FT., 1.54 ACRES
THE KENDALL COMPANY	135	4-2	40,651 SQ. FT., 0.93 ACRES	53,377 SQ. FT., 1.23 ACRES



NOTE: THIS EASEMENT MAP MAY NOT SHOW ALL EASEMENTS THAT ENCUMBER THIS PROPERTY.



- COMPILED EASEMENT MAP FOR -
**AUGUSTA-RICHMOND
COUNTY COMMISSION**

Attachment number 2
Page 5 of 5

SHOWING PROPERTY LOCATED IN 85th G.M.D., IN AUGUSTA, GEORGIA.

RICHMOND COUNTY, GEORGIA



DATE
AUGUST 22, 2007

- PREPARED BY -



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JOB #06009ESMTS.DWG JDR



Engineering Services Committee Meeting
3/9/2009 1:00 PM
Wilkinson Garden Area Roadway Drainage Impvts - CPB/Award CSA

Department: Abie L. Ladson, PE, CPESC, Director of Engineering

Caption: Approve Capital Project Budget Change Number One and Award Design Consultant Services Agreement to W.K. Dickson and Co., Inc. in the amount of \$328,735.00 for the Wilkinson Garden Area Roadway Drainage Improvements Project (CPB# 323-041110-204823525). Funds of \$291,180.00 are to be used from the Project Engineering Account, and \$37,555.00 from Phase III Recapture to fully fund the Design Phase for the Engineering Department.

Background: An identified and partially funded project to address flooding and associated roadway improvements in the Wilkinson Garden Area was approved by the Augusta-Richmond Commission on February 17, 2004. The drainage system in the area is not adequate to handle low frequency rain events, thus causing flooding along several roadways and yards. A report was completed in December 2005 to study both the hydrology and hydraulics in the area. Funds allocated to this project are only for design.

Analysis: The following firms were evaluated based on qualifications, project approach, experience, and schedule on April 17, 2007. The following firms submitted RFQs and were evaluated: 1. LPA Group 2. ZEL Engineers (Non-compliant) 3. EMC Engineering Services, Inc. 4. W.K. Dickson & Co., Inc. 5. W.R. Toole Engineers, Inc. 6. Cranston Engineering Group, Inc. W.K. Dickson & Co., Inc. was selected based on the evaluation procedures used for this project.

Financial Impact: Funds are available in Phase III Recapture account 323-041110-6011110/296823333-6011110 to be transferred to the project engineering account.

Alternatives: 1) Approve Capital Project Budget Change Number One and Award Design Consultant Services Agreement to W.K. Dickson and Co., Inc. in the amount of \$328,735.00 for the Wilkinson Garden Area Roadway Drainage Improvements Project (CPB# 323-04-204823525). Funds of \$291,180.00 are to be used from the Project Engineering Account, and \$37,555.00 from Phase III Recapture to fully fund the Design Phase for the Engineering Department. 2) Do not approve.

Recommendation: approve alternative one

Funds are Available in the Following 323-041110-6011110/296823333-6011110

Accounts:

REVIEWED AND APPROVED BY:

Finance.

Procurement.

Law.

Administrator.

Clerk of Commission

Augusta-Richmond County, Georgia

CPB# 323-041110-204823525

**CAPITAL PROJECT BUDGET
WILKINSON GARDEN AREA ROADWAY DRAINAGE
CHANGE NUMBER ONE**

BE IT ORDAINED by the Commission-Council of Augusta-Richmond County, Georgia that the following Capital Project Budget is hereby adopted:

Section 1: The project is authorized to CPB# 323-041110-204823525. This project is necessary to address the drainage system in the area not adequate to handle the low frequency rain events, thus causing flooding along several roadways and yards. Funding will come from Phase III Recapture Funds.

Section 2: The following revenues are anticipated to be available to the Consolidated Government to complete the project.

Special 1% Sales Tax, Phase III Recapture	\$	360,000
Special 1% Sales Tax, Phase III Recapture	\$	<u>37,555</u>
	\$	397,555

Section 3: The following amounts are appropriated for the project:

	By Basin		By District
Rocky Creek	\$	397,555	2nd \$ 397,555

Section 4: Copies of this Capital Project Budget shall be made available to the Comptroller for direction in carrying out this project.

Adopted this _____ day of _____.

Approved

Honorable Deke Copenhaver, Mayor

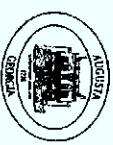
Original-Commission Council Office
Copy-Engineering Department
Copy-Finance Department
Copy-Procurement Department

**CAPITAL PROJECT BUDGET
WILKINSON GARDEN AREA ROADWAY DRAINAGE
CHANGE NUMBER ONE**

<u>SOURCE OF FUNDS</u>	<u>CPB AMOUNT</u> <u>CPB</u>	<u>CPB</u> <u>CHANGE</u>	<u>NEW</u> <u>CPB</u>
SPECIAL 1% SALES TAX, PHASE III 323-04-1110-6011110-296823333	(\$360,000)		(\$360,000)
SPECIAL 1% SALES TAX, PHASE III 323-04-1110-6011110-296823333		(\$37,555)	(\$37,555)
TOTAL SOURCES:	(\$360,000)	(\$37,555)	(\$397,555)

USE OF FUNDS

ENGINEERING 323-04-1110-5212115-204823525	\$360,000	\$37,555	\$397,555
TOTAL USES:	\$360,000	\$37,555	\$397,555



ATTACHMENT A – SCOPE OF SERVICES

PROJECT DESCRIPTION:

WK Dickson proposes the following project approach and methodology to the City of Augusta for assistance with the Wilkinson Garden Area Roadway and Drainage Improvements. The project area as identified in Addendum #1 has two significant conveyance systems which carry storm water out of the drainage basin. The overall topography of the basin is relatively flat resulting in localized property flooding and standing water along some roadway sections. Portions of the drainage area have no defined conveyance system and the culverts and the swales that do exist around some residential dwellings have severe maintenance needs. Portions of the existing drainage system appear to encroach on private property or are adjacent to residential dwellings; therefore public relations will be an important component to the project. While localized flooding and citizen safety/well-being are the primary concerns, the proposed drainage improvements should minimize the water quality impacts to Rock Creek and ultimately Phinizy Swamp. WK Dickson has the breadth of resources to provide expertise in roadway and drainage design, utility coordination, water quality, permitting, and surveying. Our process for this project will involve the following outline:

- ▶ Initial meetings with City Staff to define problem areas and flooding complaints.
(2 meetings)
- ▶ Field mapping of existing systems and previous survey data of existing coverages for the area.
- ▶ Public involvement with mailings and meetings.
- ▶ System modeling to define system deficiencies.
- ▶ Conceptual improvement recommendations.
- ▶ Development of 60% and 90% plans.
- ▶ Final construction plans.

FIELD INVESTIGATION AND SURVEYING SERVICES

To properly conduct the analysis, modeling and design of the Wilkinson Garden Area Roadway & Drainage Improvements it will be critical to review any existing data from previous surveys, supplement and update this data where necessary and complete an inventory of the existing storm water infrastructure. WK Dickson will perform new aerial photography for base mapping, perform GPS data collection as well as conventional surveys to collect attribute and location information for each storm water drainage feature where required. Connectivity will be established where necessary, for all inventoried features to aid in drainage improvements.

EXISTING DATA COMPILATION

WK Dickson has reviewed the existing data previously prepared for this area by Khafra Engineering Consultants, Inc, prepared in February, 2005. This data contains cross-section and topographic information for the roads within the project as well as locations and elevations for most of the storm water structures. This data will need to be field verified for accuracy, horizontal and vertical datums verified, missing structures identified and located and required supplemental information surveyed. As we are using the data prepared in 2005 and supplementing to that data, we will rotate and assume the horizontal and vertical control to match that data.

SURVEYING AND INVENTORY PROJECT AREA MAPPING



WK Dickson will obtain new color aerial photography of the project area bounded by Olive, ML King, Tubman Home Roads and Gordon Highway. This will be used to develop new topographical mapping of the entire area at a 1"=50' horizontal scale with 1' foot contours. All planimetric features visible will be captured as well in accordance with ASPRS Class II standards. In addition new color orthophotos at a ½ foot pixel resolution will be created for the area. In critical areas obscured by vegetation additional field surveys will be performed to supplement the aerial mapping data. This data will be used as the base mapping and for determination of storm water drainage where necessary.

FIELD DATA COMPILATION

In addition to the verification and surveys mentioned above, surveys will be performed to obtain downstream data of the two outlets for the neighborhood, which cross under Gordon Highway. The first outlet is a 24 inch pipe in the ramp area of Gordon Highway. This pipe heads southeast and connects to a junction box on the south side of Gordon Highway and another 24 inch pipe leads southeasterly away from this to an unknown location. The second crossing is a 49 inch by 33 inch corrugated metal pipe arch located between Croft Road and Gordon Highway. This pipe connects to a junction box and a manhole near a restaurant at Olive Road and Gordon Highway. The pipe leads from the manhole going easterly to an unknown location across Gordon Highway. Both of these pipes eventually discharge into ditches that lead to the Phinizy Swamp Area.

If needed new topographic data will be obtained in the areas identified as potential detention ponds. This will include locations of adjoining parcels which may be affected by easement areas.

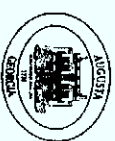
The City will be responsible for assisting in mass mailing, providing names and addresses for property owners from GIS system and coordination of mail notice forms to property owners allowing our surveyors access to their properties and coordinating public meetings.

Examples of potential storm water structures to be located, photographed, mapped and data details collected and surveyed are listed below:

- ▶ Manholes / junction structures: type, location, elevations of the top and invert.
- ▶ Inlets / catch basins: type, size and depth, location, elevations of top invert, material and condition
- ▶ Pipes: size, slope, length, type material, condition, location and elevation for entrance and exit.
- ▶ Headwall / wing walls: pipe size, invert, configuration, description
- ▶ Culverts:
 - Size, type, slope, length and condition.
 - Inverts (in and out, slope)
- ▶ Paved and Natural Channels: upper and lower end location and cross sections, length, condition, slope, approximate top of bank location in plan, center line and channel flow direction.
- ▶ Outfalls: Storm sewer outfalls. Outfalls are considered end of pipes that discharges to channels, creeks, ditches and water bodies. Location, size, type of invert and condition.

During field surveying it is common for some structures to be inaccessible for various reasons. WK Dickson will report all difficult access structures in monthly meetings. These structures will be turned over to the City in both tabular and spatial format at which time the City will be responsible for resolving access problems.

SYSTEM CONNECTIVITY AND MAPPING



WK Dickson will develop and produce separate map(s) showing the interconnection of all storm water conveyance systems. A connectivity diagram shall be developed and integrated into a GIS database. The connectivity diagram will; incorporate all streams and channel segments center line(s), structures, and indicate how the infrastructures system(s) flows are interconnected.

WK Dickson will delineate drainage patterns and locate sub-basin(s) based on the location of the drainage conveyance system, most recent topography, land cover and infrastructure. Photographs of inventoried data will be hyper-linked to the spatial coordinates of each open and closed system conveyance point.

GIS INCORPORATION

WK Dickson will provide the City with the storm water system data and metadata for incorporation into the existing City GIS system. WKD will also use the inventory data to begin the modeling and design phases of the project.

EASEMENT PLATTING

WK Dickson will prepare easement plats for any proposed detention areas (2-3 total). All parcels affected by easements will be surveyed and individual plats (estimated 15) will be prepared.

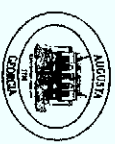
WATERSHED EVALUATION

WK Dickson will review all information provided by the City of Augusta including the Wilkinson Garden Area Road & Drainage Improvements Study & Master Plan, existing and future land use maps and the community facility and services information. This information will be modified/added to as necessary to provide the hydraulic information required to model the various portions of the project area.

For modeling purposes, WK Dickson will utilize the US Army Corp. of Engineers HEC-HMS model (or approved City model) to develop hydrologic characteristics and peak flows for the various storm events for each sub basin unless otherwise directed by the City. The watershed characteristics will be identified in a manner consistent with Soil Conservation Service Methodologies and City of Augusta policy and procedure. When possible, WK Dickson will utilize the watershed characteristics compiled and developed during the preliminary stages for this project area. Proposed land uses will be confirmed from information provided by the City. Soil characteristics will be determined from SCS soil survey maps unless the City of Augusta has more detailed or accurate soil data available. Design rainfall data will be taken from City of Augusta published data if available; otherwise Technical Paper – 40, Rainfall Frequency atlas of the U.S. will be utilized. Specific storm events that will be evaluated include the 2-, 5-, 25-, 50-, and 100 year, 24 hour events.

Hydrologic parameters will be calculated using standard engineering practice and be in accordance with City of Augusta policy and procedures. Hydrologic parameters calculated during the preliminary plan effort will be reviewed and used when appropriate. Results will be presented in the form of a detailed computer spreadsheet that references a model schematic. The table and model schematic will be organized in the planning report, and will include at a minimum the following parameters:

- ▶ Sub-basin Node
- ▶ Manning “n” for Channel
- ▶ Time to Peak
- ▶ Time of Concentration
- ▶ Peak Discharge
- ▶ SCS Curve Numbers
- ▶ Watershed/Sub watershed Area



► Watershed/Sub watershed Length

All hydrologic calculations will be submitted to the City for review prior to beginning the hydraulic analysis. Upon acceptance of the hydrology by the City, WK Dickson will complete the hydraulic analysis using programs such as StormCAD or hydraflow. WK Dickson will analyze the entire system as a whole based off of a tailwater condition from Rocky Creek. Water surface profiles will be calculated for each storm event modeled in the hydrologic analysis throughout the system based on the tail water, head losses associated with roughness and entrance and exit losses, slope and conveyance capacity.

PUBLIC INPUT

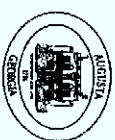
Stakeholders in the community must be involved in the planning process to build consensus for the project improvements. The proposed WK Dickson team is comprised of technical experts that understand the importance of keeping the public informed throughout the entire project. Targeted mailings will be sent to each homeowner in the project area to briefly describe the project, solicit feedback on any flooding problems in the area and invite the homeowners to a community meeting. The name and address data base will be provided by the City and WK Dickson will organize a mass mailing with questionnaires. WK Dickson will hold two (2) community meetings to keep the public informed, gather information, receive input, and build consensus for the project. The first public meeting will occur at the end of the data acquisition phase. Feedback from the public on the conceptual plan will help form the basis in the modeling and design phases. The second public meeting will occur when the plans are approximately 90% complete, so that the community can have an opportunity to comment prior to preparing final plans.

Throughout the design process, WK Dickson will be meeting individually with select property owners whose properties will be impacted by the proposed improvements to educate them on those issues. Every effort will be made to minimize the impact to private property, landscaping, and vegetation.

PERMITTING STRATEGY

Wetlands and streams are regulated by the US Army Corps of Engineers (USACE) through the 404 permit program. Additionally Georgia regulates stream buffers and water quality through the 401 certification program. As with any project that involves water resources, a permitting strategy is critical to avoiding costly delays. Anticipated permits for the Wilkinson Garden project include a 404 permit, 401 certification, and compliance with the Georgia Stream Buffer rules. The WK Dickson project team has extensive experience working with local, state and federal agencies on complex projects which will benefit the City through the regulatory approval process. We will work diligently with the City to reduce the risk of schedule delays resulting from agency review.

The permitting strategy for the Wilkinson Garden project involves three key tasks: 1- Initial assessment and delineation, 2- Wetland report and jurisdictional determination request submittal, and 3- Permit application. The initial assessment and delineation task will include a general assessment of the watershed and detailed delineation of waters of the US (streams and wetlands) occurring within the project area. The delineation will follow the USACE 1987 manual and include several detailed wetland data points and photographs. Following survey of delineated streams and wetlands Task 2 will include preparation and submittal of a wetland report and jurisdictional determination (JD) request. It is anticipated that an additional site visit may be required with agency personnel to verify the wetland delineation. Permitting (Task 3) is anticipated to include a 404 Nationwide Permit(s) and associated joint (404/401) pre-construction notification (PCN). The PCN will include a project narrative, conceptual mitigation plan (if necessary) and detailed impact



calculations. WK Dickson will respond quickly to any agency comments following the PCN submittal. If necessary, Task 2 and Task 3 can be pursued simultaneously to accelerate the permitting process.

FEASIBILITY REPORT AND CIP

Based upon results of the watershed evaluation as well as feedback from the public and the City, existing flooding problems will be identified within each basin. Portions of the storm drainage system not meeting City design standards will be identified and prioritized for possible improvements. Flooding problems specified in the homeowner questionnaires and through any additional feedback from the community will be cross-referenced to the results from the watershed evaluation.

Once the problem areas to be addressed by the study have been identified, broad improvement options will be considered. These options include, but are not limited to: upgrade of the entire drainage system improvements to meet City design criteria for new development; upgrade of portions of the drainage system to lesser design standards; use of alternative best management practices for water quantity and quality control, such as bio-retention areas; and alternative alignments and materials to minimize construction cost and impacts to private property and transportation systems. When possible, innovative solutions will be considered to reduce cost and provide solutions that optimize the drainage system's capacity/functionality and long-term condition while balancing the important issues of neighborhood aesthetics and public relations.

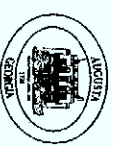
Specific alternative improvements to reduce street flooding and to bring the drainage system up to City standards will be developed, evaluated for feasibility, and carefully weighed. Ultimately, a system which prioritizes the projects based on key criteria developed with the City, with clear justification will be the end result. Throughout this process, impacts to the neighborhood and property owners will be considered.

Results of the existing conditions analysis and the future conditions analysis for final design will be provided in a brief report accompanied by conceptual plan sheets. It is expected that sheets showing the proposed improvements and proposed water surface profiles will be part of the final submittal. Information will be neatly organized beginning with a cover sheet that summarizes the entire plan package and serves as a quick reference to the subsequent sheets. Each sheet will have a title block with page numbers that reference the cover sheet as well as a legend to identify symbols utilized during the study. An alphanumeric system in logical sequence from downstream to upstream within the basin will be utilized to specify existing and proposed basins, structures, and recommended storm water improvement locations. To the extent possible, a mapping system consistent with City of Augusta standards will be utilized.

Capital costs for drainage improvements shall include at a minimum, installation of the following elements: storm drainage improvements, channel stabilization materials, grading, necessary street improvements, water and sewer utility relocations, erosion and sediment control measures, traffic control measures, miscellaneous items (e.g. fencing, walls, etc.), easement acquisition estimates, and design costs.

GEOTECHNICAL EVALUATIONS

Per our initial conversations with the staff during the contract negotiation phases we are recommending that a two phase approach to geotechnical exploration be used in this project. We will subcontract the geotechnical services for this contract on behalf of the city and will bill the services as a reimbursable cost to the owner. Each phase of geotechnical exploration will be associated with a task order of scope and fee agreed on by the owner. Our recommendations are that an initial investigation including up to approximately 6 hand augers be performed in key locations to evaluate material type, blow counts and groundwater conditions. This will be performed during the initial concept phases of the project and will be



incorporated into the concept evaluations. The second round of geotechnical evaluations will be performed before the 60% design begins and will be more specific in nature and pointed at the conceptual construction recommendations. Again at that point specific scope and fee task orders will be reviewed with the owner.

CONSTRUCTION DOCUMENTS

WK Dickson will prepare construction documents at the 60, 90 and 100% levels for the recommended improvements for drainage. The plans will be prepared in accordance with the local and state requirements and will be compiled in a fashion that will be biddable as a single phase construction contract. It is anticipated that the city will be working with approximately a \$3,000,000.00 total project CJP for this project and our designs and reviews will be limited to keeping the client within that window of funding at each review point in the schedule.

QUALITY CONTROL AND SCHEDULING

WK Dickson will provide our internal quality control for this project that will utilize all of our tools for assuring accuracy in our predictions. These items will include periodic internal project manager and team member reviews of data and calculations to assure quality answers to our drainage problems. Most importantly, our local staff will provide ground truthing through local knowledge and field evaluations to justify our findings.

EXPERIENCE

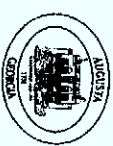
WK Dickson can offer the City the full range of expertise needed to plan and design a successful roadway and drainage infrastructure project. Our proposed project team is comprised of experienced individuals from three separate practice groups. Our **Stormwater Group** has unrivaled experience in planning, modeling, and designing storm water systems throughout the Southeast. The **Transportation Group** has extensive experience in roadway layout and design, traffic analysis and planning. The **Geomatics Group** uses the latest GIS, GPS, and surveying technologies on projects including topographic and boundary surveys. Team members from these groups work seamlessly together on a daily basis allowing WK Dickson to meet challenges throughout the project and maintain aggressive schedules.

UNDERSTANDING RIVER VALLEY HYDRAULICS AND HYDROLOGY

Drainage systems in this area are unlike drainage systems in the Piedmont or Mountain areas of Georgia and require a strong understanding of the differences to successfully know how to map a system in this environment. Specifically, establishing a defined drainage system with flat topography is challenging for a coastal community. Our experience with various river drainage projects for municipalities including Savannah, Wilmington, Jacksonville, Nags Head, Southport, Hilton Head, and Myrtle Beach will provide the City with a team that has unparalleled experience in planning and designing coastal storm water systems.

WORKING RELATIONSHIP WITH THE CITY OF AUGUSTA'S ENGINEERING DEPARTMENT SERVICES

The WK Dickson team's significant experience working with the City of Augusta and numerous other communities will lend invaluable expertise to this project. Our team has experience with the City on past utility projects. Our Project Manager, Scott Robidoux, PE, brings extensive experience in planning projects for other communities. He will be assisted by Trey Wingate, PE, to facilitate the local knowledge Mr. Wingate not only has extensive experience professionally, but has personal experience with the demands



associated with Augusta storm water systems. This combination of regional experience and local knowledge is exactly the mixture this project demands.

LOCAL COMMITMENT

In addition to WK Dickson's staff history, we continue to maintain an office in Augusta providing engineering and surveying services to the City, local municipalities and private clients. WK Dickson is committed to improving the community infrastructure in Augusta and will provide all assets necessary to make the City's project successful.

DELIVERABLES

W K Dickson will prepare the design plans, specifications and details for the drainage improvements recommended in the study phase of the project and also meeting the construction budget noted previously in this contract. These documents will be delivered in hard copy form as well as pdf form to the client for their use. Should the client request electronic ACAD and Microsoft versions of models and construction documents will be provided to the owner for their use. The technical specifications for the project will be compiled with the city's standard front end documents to compile a project manual for bidding purposes. These documents will be delivered in a hard copy with a pdf copy form for the city's use.

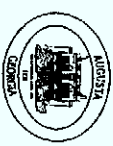
CONSTRUCTION BIDDING

Upon receiving the approvals from the regulatory agencies and the OWNER, the CONSULTANT will proceed with the Construction Bidding portion of the project consisting of the following tasks:

- Coordinate with the City Purchasing Department to advertise the project.
- Fax bid information to City
- Attend mandatory pre-bid meeting as a technical reference to the CITY for the project.
- Prepare letter of recommendation for award of the contract for each phase.
- Develop conformed contract documents and forward to the CITY for execution. We will provide five (5) copies of the conformed documents as required.
- Attend the pre-construction meeting as a technical reference to the CITY.
- Provide clarification related to the plans/specifications throughout design and construction.

CONSTRUCTION ADMINISTRATION

- Provide Services During Construction as follows:
 - Recommend design changes as field conflicts arise (site visits may be required)
 - Provide clarification and specifications throughout construction.
 - Revise/update plans and / or easement plats as changes occur that require submittal to DOT/other agencies.



ATTACHMENT B - COMPENSATION

The CITY shall compensate the CONSULTANT for services, which have been authorized by the CITY under the terms of this Agreement.

The CONSULTANT may submit to the CITY a monthly invoice, in a form acceptable to the CITY and accompanied by all support documentation requested by the CITY, for payment for the services, which were completed during the billing period. The CITY shall review for approval said invoices. The CITY shall have the right to reject payment of any invoice or part thereof if not properly supported, or if the costs requested or a part thereof, as determined solely by the CITY, are unreasonably in excess of the actual phase of completion of each phase. The CITY shall pay each such invoice or portion thereof as approved, provided that the approval or payment of any such invoice shall not considered to be evidence of performance by the CONSULTANT to the point indicted by such invoice, or of receipt of acceptance by the CITY of the service covered by such invoice. The CITY shall pay any undisputed items contained in such invoices.

When the CITY authorizes the CONSULTANT to proceed with the work authorized in a Task Order, it agrees to pay the CONSULTANT for work completed, on the basis of the standard billing rates of the firm at the time or the negotiated amounts for said services to the Contract of those principals and employees engaged directly on the work.

Overtime may be performed at the discretion of the CONSULTANT, but the premium time portion of the overtime will not be billed to the CITY unless the City has requested acceleration of the scheduled work in writing.



ATTACHMENT B-1

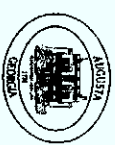
BASIS OF COMPENSATION

1. Basic Services: The OWNER shall pay the CONSULTANT for services set forth in Attachment A, Scope of Services, Lump Sum Fees as show below.

-Basin Evaluation and Survey Data (LS)	\$142,890.00
-Environmental Permitting and Assessment (LS)	\$ 11,014.00
-Geotechnical Evaluations (CPNTE)	\$15,000.00
-Conceptual Design (30%) (LS)	\$40,110.00
-Design Development (60%) (LS)	\$42,630.00
-Construction Documents (90%) (LS)	\$40,291.00
-Final Documents (100%) (LS)	\$16,800.00
- Post Design Services (HNTB)	\$20,000.00
TOTAL	\$328,735.00

A percentage of the Lump Sum Fee will be billed on the last day of each month. The percentage billed will be the percentage of work estimated to be complete as of the day of billing.

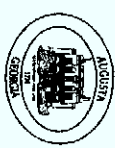
2. Additional Services: The OWNER shall pay the CONSULTANT for additional services, which are not specifically called for in Attachment A, Scope of Services as negotiated and ordered in writing by the owner.



ATTACHMENT C - LISTING OF KEY PERSONNEL

CONSULTANT shall provide qualified personnel to perform its work. The list of key personnel below, including a designated Program Manager will not change or be reassigned without the written approval of the CITY. Those personnel committed for this work are as follows:

William G. Wingate "Trey", III, PE	V.P.; Client Coordinator	WK Dickson & Co., Inc.
Gordon Smith, PE	Project Manager	WK Dickson & Co., Inc.
Robert Tate Horton, LS	Land Surveyor	WK Dickson & Co., Inc.
Roberto Ruiz, PE	Design Engineer	WK Dickson & Co., Inc.
Michael Cameron	GIS Coordinator	WK Dickson & Co., Inc.
Pat Gambill	Design Engineer	WK Dickson & Co., Inc.



ATTACHMENT D – SCHEDULE FOR PERFORMANCE

WK Dickson will work on or as soon as practicable after the date of execution of this Contract and all work as set forth in the Scope of Services shall be completed as follows: (See attached chart)

[illegible]

REQUEST FOR QUALIFICATIONS

Request for Qualifications will be received at this office until Tuesday, April 17, 2007 @ 3:00 p.m.
FOR FURNISHING:

RFQ ITEM #07-113 Rock Creek/Warren Lake Restoration Project for Augusta Engineering

**RFQ Item #07-114 Wilkinson Garden Area Roadway and Drainage Improvements for
Augusta Engineering**

RFQs will be received by: The Augusta Commission hereinafter referred to as the OWNER at the offices of:

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

RFQ documents may be examined at the office of the Augusta, GA Procurement Department, 530 Greene Street – Room 605, Augusta, GA 30911. **All questions must be submitted in writing to the office of the Procurement Department by Tuesday, March 27, 2007@ 4:00 p.m.** by fax at 706-821-2811 or by mail. No RFQ will be accepted by fax, all must be received by mail or hand delivered.

The local bidder preference program is applicable to this project. To be approved as a local bidder and receive bid preference on an eligible local project, the certification statement as a local bidder and all supporting documents must be submitted to the Procurement Department with your bonafide bid package.

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.

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 invitation are material conditions of the bid. 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 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 Procurement 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.

GERI A. SAMS, Procurement Director

Publish:

Augusta Chronicle March 1, 8, 15, 22, 2007
Metro Couriers March 7, 2007

cc: Tameka Allen Interim Deputy Administrator
 Abie Ladson Engineering
 Robert Oliver Engineering
 Yvonne Gentry DBE Coordinator

Vendors:	Original	5 Copies	Addendum 1	Qualifications	Approach to Project	Experience	Schedule	Total Points 10
Toole Engineers 349 4th Street Augusta, GA 30901	X	X	X	8.75	8.25	6.50	7.93	
MST Company P.O. Box 991 Fairburn, GA 30213								
EMC Engineering P.O. Box 8101 Savannah, GA 31412	X	X	X	7.75	7.25	5.25	6.87	
CEW 366 Augusta Ave. Atlanta, GA 30315								
W.K. Dickson 1450 Green Street, Suite 225 Augusta, A 30909	X	X	X	8.50	8.25	7.00	8.06	
Cranston Engineering Co. 452 Ellis St. Augusta, GA 30901	X	X	X	7.50	6.25	5.75	6.81	
LPA Group 700 Huger St. Columbia, SC 29201	X	X	X	6.75	6.00	4.75	5.93	
Zell Engineers 435 Telfair St. Augusta, GA 30901	X	X	NO					
SCORING								
Excellent Good Fair Poor 10 to 8 7 to 5 4 to 3 2 to 0								
QUALIFICATIONS State of Georgia License Engineers to Project Individual(s) have experience with similar projects Qualified staff to perform test research and calculations Describe staff's unique qualifications and training for this type of work								
APPROACH TO PROJECT Describe the approach to this project, special ideas and techniques								
EXPERIENCE Describe the experience of firm and/or individuals assigned to similar projects								
SCHEDULE Describe the anticipated work hours necessary to complete this project Provide schedule for the work will be completed								

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CEW 366 Augusta Ave. Atlanta, GA 30315								
W.K. Dickson 1450 Green Street, Suite 225 Augusta, A 30909	X	X	X	8.50	8.25		7.00	8.06
Cranston Engineering Co. 452 Ellis St. Augusta, GA 30901	X	X	X	7.50	6.25	7.75	5.75	6.81
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Zell Engineers 435 Telfair St. Augusta, GA 30901	X	X	NO					
SCORING								
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QUALIFICATIONS State of Georgia License Engineers to Project Individual(s) have experience with similar projects Qualified staff to perform test research and calculations Describe staff's unique qualifications and training for this type of work			EXPERIENCE Describe the experience of firm and/or individuals assigned to similar projects					
			SCHEDULE Describe the anticipated work hours necessary to complete this project Provide schedule for the work will be completed					

ENGINEERING DEPARTMENT

Abie L. Ladson, P.E.,
Director

Robert L. Oliver, Jr.
Interim Asst Director

MEMORANDUM

TO: Geri Sams, Procurement Director

THRU: Abie L. Ladson, P.E., Director

FROM: Robert L. Oliver, Jr., Interim Assistant Director

DATE: Tuesday, May 22, 2007

SUBJECT: Wilkinson Garden Area Roadway and Drainage Project (RFQ)
Project Number: 323-04-20482325
Bid Number: 07-114
File Ref #: 07-014(A)

Ms. Sams, it is the recommendation of the Engineering Department to award the RFQ for Wilkinson Garden Area Roadway and Drainage Project to W.K. Dickson.

If you have any question or concerns, please do not hesitate to contact me at (706) 796-5040.

RLO/*scm*

cc: Anthony (Tony) E. Williams, Construction Manager
File

Toole Engineers
349 – 4th Street
Augusta, GA 30901
Atn: Rick Toole

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349 – 4th Street
Augusta, GA 30901
Atn: Rick Toole

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Augusta, GA 30901
Atn: Rick Toole

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Fairburn, GA 30213

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MST Company
P. O. Box 991
Fairburn, GA 30213

EMC Engineering
P. O. Box 8101
Savannah, GA 31412
Atn: Thomas A. Ferrara

EMC Engineering
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Savannah, GA 31412
Atn: Thomas A. Ferrara

EMC Engineering
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Savannah, GA 31412
Atn: Thomas A. Ferrara

CEW
366 Augusta Avenue
Atlanta, GA 30315
Atn: Revonda Cosby

CEW
366 Augusta Avenue
Atlanta, GA 30315
Atn: Revonda Cosby

CEW
366 Augusta Avenue
Atlanta, GA 30315
Atn: Revonda Cosby

W. K. Dickson
1450 Greene Street Ste 225
Augusta, GA 30909
Atn: Joe Holley

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Atn: Joe Holley

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Atn: Joe Holley

Cranston Robertson Whitehurst
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Augusta, GA 30901
Atn: Dennis Welch

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Augusta, GA 30901
Atn: Dennis Welch

Cranston Robertson Whitehurst
452 Ellis Street
Augusta, GA 30901
Atn: Dennis Welch

Abie Ladson
Engineering

Robert Oliver
Engineering

RFQ 07-114 Addendum 1 mailed
certified/return receipt 3/27/07